

UNDERGROUND INJECTION CONTROL (UIC) PERMIT APPLICATION

IVANA TR 3 #2 UIC 2D0394892 API 47-039-04892

CHECKLIST FOR FILING A UIC PERMIT APPLICATION

Please utilize this checklist to ensure you have prepared, completed, and enclosed all required documentation and payment to ensure a timely review of your submittal.

Operator		
Existing	UIC	Well
UIC Permit	API	
ID Number	Nun	nber

Please check the fees and payment included.

Fees	Payment Type		
UIC Permit Fee: \$500	Check		
Groundwater Protection Plan		Electronic	
(GPP) Fee: \$50.00		Other	

Please check the items completed and enclosed.

_____ Checklist

_____ UIC-1

- _____ Section 1 Facility Information
- _____ Section 2 Operator Information
- _____ Section 3 Application Information
- _____ Section 4 Applicant/Activity Request and Type
- _____ Section 5 Brief description of the Nature of the Business
- ____ CERTIFICATION

<u>Section 6 – Construction</u>

- ____Appendix A Injection Well Form
- ____Appendix B Storage Tank Inventory
- _____ Section 7 Area of Review
 - ____Appendix C Wells Within the Area of Review





N/A ____Appendix D Public Service District Affidavit

____Appendix E Water Sources

____Appendix F Area Permit Wells

_____ Section 8 – Geological Data on Injection and Confining Zones

_____ Section 9 – Operating Requirements / Data

_____Appendix G Wells Serviced by Injection Well

_____ Section 10 – Monitoring

_____ Section 11 – Groundwater Protection Plan (GPP)

_____Appendix H Groundwater Protection Plan (GPP)

_____ Section 12 – Plugging and Abandonment

_____ Section 13 – Additional Bonding

_____ Section 14 – Financial Responsibility

_____Appendix I Financial Responsibility

_____ Section 15 – Site Security Plan

_____ Appendix J Site Security for Commercial Wells

_____ Section 16 – Additional Information

_____ Appendix K Other Permit Approvals

*NOTE: For all 2D wells an additional bond in the amount of \$5,000 is required.

Reviewed by (Print Name):

Reviewed by (Sign):

lf Roberts

Date Reviewed:





Section 1, 2, 3, 4, 5

UIC 2D0394892

WEST VIRGINIA DEPARTMENT O ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GA 601 57 th Street, SE Charleston, WV 25304 (304) 926-0450 www.dep.wv.gov/oil-and-gas							
UIC PERMIT ID # 2D0394892 API	# 47-039-04892 well # Ivana TR 3 #2						
Section I. Facility Information							
Facility Name: Ivana TR 3 #2							
Address: 4462 Frame Rd							
City: Elkview State: WV Zip: 2	25071						
County: Kanawha District: Elk	7.5' Quadrangle: Blue Creek						
Location description: Ivana TR 3 #2 well is located near Fudge Branch Road, Elkview WV in Elk District, Kanawha County on Newsome acreage at Lat: N 38.480832 Long: W 81.493163							
Location of well(s) or approximate center of field/project Northing: 4259294.9	t in UTM NAD 83 (meters): Latitude: 38.480951 Longitude: -81.49305						
	_{itle:} EHS Manager mail: Iraffle@dgoc.com						
Section 2. Operator Information							
Operator Information Operator Name: Diverisified Production LLC Operator ID: 494524121							
Address: 4462 Frame Rd							
City: Charleston State: WV Zip:	25301						
County: Kanawha							
Contact Name: Charles Shafer C	ontact Title: Manager Upstream Operations						
Contact Phone: 304-373-3152 C	ontact Email: cshafer@dgoc.com						



UIC-1 (4/25)

Section 3. Applicant Information

	-		DERAL	STATE					
(2D, 2H, 2R)	1479 (3S)		OTHER (e	explain):					
Applicant / Ac	ctivity R	eques	st and	Туре:					
new UIC Permit:	🗌 2D	🗌 2H	🗌 2R	🗌 3S					
sting UIC Permit:	🗌 2D	🗌 2H	🗌 2R	🗌 3S					
(i	OTHER (explain (2D, 2H, 2R)	 _ OTHER (explain): (2D, 2H, 2R)	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ C Applicant / Activity Reques new UIC Permit: □ 2D □ 2H sting UIC Permit: □ 2D □ 2H	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (e Applicant / Activity Request and new UIC Permit: □ 2D □ 2H □ 2R sting UIC Permit: □ 2D □ 2H □ 2R	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (explain): Applicant / Activity Request and Type: new UIC Permit: □ 2D □ 2H □ 2R □ 3S sting UIC Permit: □ 2D □ 2H □ 2R □ 3S	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (explain): Applicant / Activity Request and Type: new UIC Permit: □ 2D □ 2H □ 2R □ 3S sting UIC Permit: □ 2D □ 2H □ 2R □ 3S	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (explain): Applicant / Activity Request and Type: new UIC Permit: □ 2D □ 2H □ 3S sting UIC Permit: □ 2D □ 2H □ 2R □ 3S	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (explain): Applicant / Activity Request and Type: new UIC Permit: □ 2D □ 2H □ 2R □ 3S sting UIC Permit: □ 2D □ 2H □ 2R □ 3S	□ OTHER (explain): (2D, 2H, 2R) □ 1479 (3S) □ OTHER (explain): Applicant / Activity Request and Type: new UIC Permit: □ 2D □ 2H □ 2R □ 3S sting UIC Permit: □ 2D □ 2H □ 2R □ 3S

C. Modify existing UIC Permit: 2D 2H 2R 3S (Submit only documentation pertaining to the modification request)

2D COMMERCIAL FACILITY:

Section 5. Briefly describe the nature of business and the activities to be conducted:



APPLICATION CERTIFICATION

In accordance with WV Code 47CSR13.13.11, all UIC permit applications must be signed by one of the following:

- 1. For a corporation: by a principle corporate officer of at least the level of vice-president;
- 2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
- 3. For a municipality, State, Federal, or other public agency: by either a principle executive officer or ranking elected official;
- 4. Or a duly authorized representative in accordance with 47CSR13.13.11.b. (A person may be duly authorized by one of the primary entities (1-3) listed above by submitting a written authorization to the Chief of the WVDEP Office of Oil and Gas designating an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

Diversified Production LLC

(Company Name)

2D03904892-003

(UIC Permit Number)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (47CSR13.13.11.d)

Charles Shafer

(Print Name)

Manager

(Print Title)

(Signature)

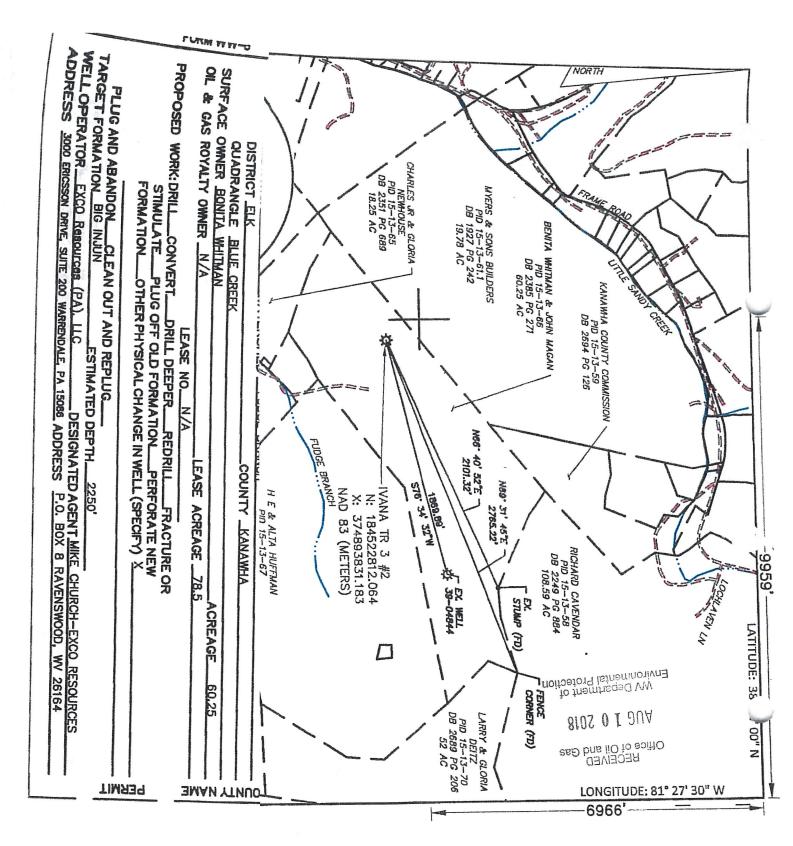
19-

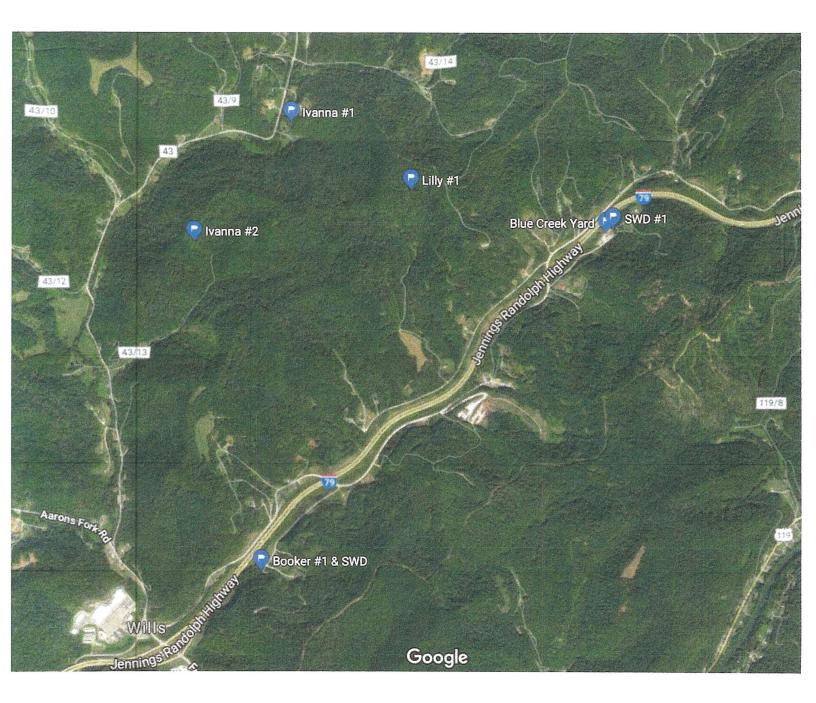
(Date)

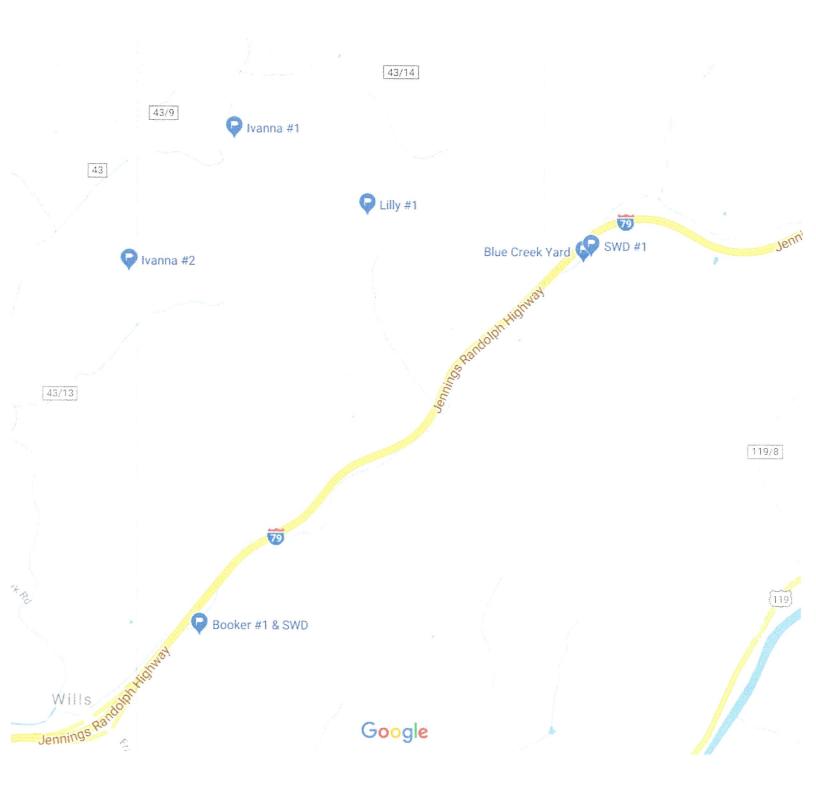


Section 6 - Construction

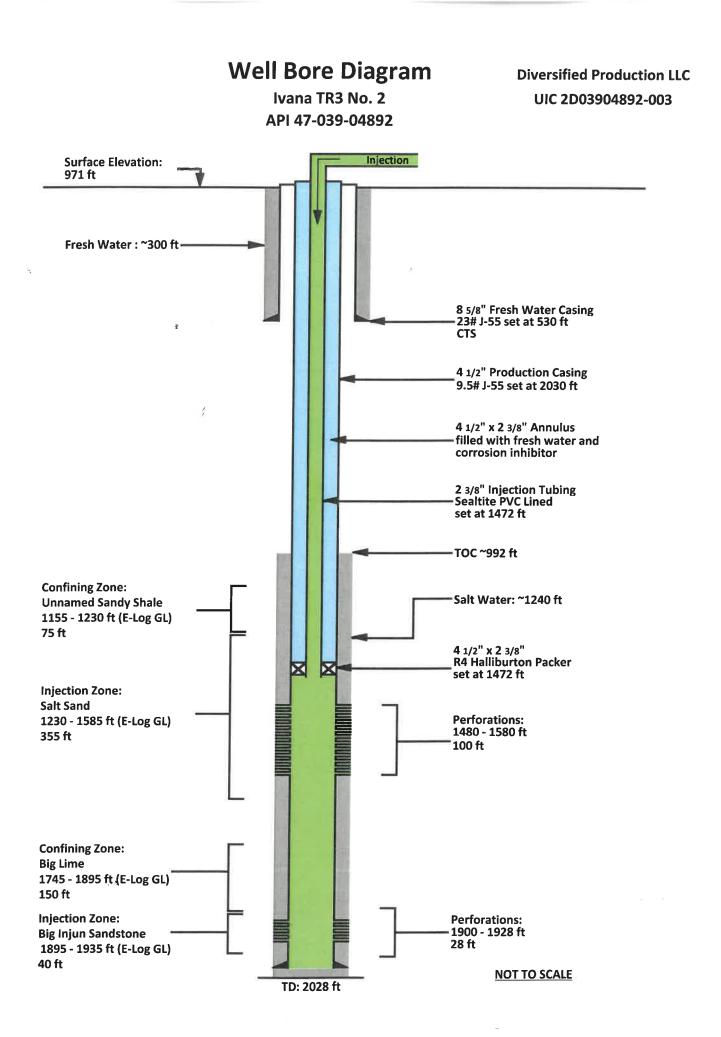
UIC 2D0394892











4	70390)4892 _{AP1}	1	9-Apr-93
AUG 0 2 93 Division of Enviro Section of O	st Virgin nmental P	ia rotection	REC	-04892 , EIVED]
WV Division of Environmental Protection Well Operator's R	eport of	Well Work	59 3	0,93
Farm name: CARTE, JAMES & GERRY	Operator	Well No.:		KELL#2
LOCATION: Elevation: 971.00 Quad	rangle: B	LUE CREEK	Environm	antal Protection
District: ELK Latitude: 6960 Feet Sou Longitude 10040 Feet Wes	th of 38	ounty: KANA Deg. 30Min Deg. 27 Mi	500	• .
Company:QUAKER STATE CORPORATION P. O. BOX 189/1226 PUTNAM HOW	El Casing	l Used in		
BELPRE, OH 45714-0189	&		Left	Cement Fill Up
Agent: FRANK R. ROTUNDA		Drilling	in Well	Cu. Ft.
Inspector: CARLOS HIVELY Permit Issued: 04/19/93 Well work Commenced: 06/16/93 Well work Completed: 06/23/93	Size <u>8 5/8</u>	530	530	180 sx
Verbal Plugging Permission granted on:	4 1/2		2030	210 sx
Rotary Cable Rig Total Depth (feet) 2026 Fresh water depths (ft)	2 3/8		1450	
Salt water depths (ft) 1240				
Is coal being mined in area (Y/N)? Coal Depths (ft):_NA				
OPEN FLOW DATA		· ••• ••• ••• ••• ••• ••• ••• ••• ••• •	۱ ۲۰ و ۲ ^۹	
Time of open flow between in	d Oil: In d Fi itial and	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u>	1900 Bbl/d Bbl/d Hours Hours
Time of open flow between in	d Oil: In d Fi itial and	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u> s	Bb1/d Bb1/d Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

	••• *	For:	QUAKER	STATE	CORPORA	ATION		
MG .					Rotunda 2, 1993	· · · ·	and the second s	
	فمعسد					9 		2

:

¥ ب

PERF: by Young Wireline in the Big Injun from 1900 - 1928 w/27

FRAC: By Halliburton w/414 bbls water,150 sx 10/20 Breakdown: 2200 psi Avg. Treat: 1728 psi @ 30 BPM ISIP: 1346, 5 min 750, 10 min 570 15 min 404.

Second Stage:

ى ئۇرىغى مەمۇرىيە ئىز ئىلارىغا

- PERF: by Young Wireline in the Salt Sand from 1480 1580 w/60 holes.
- FRAC: by Halliburton w/674 bbls water, 375 sx 20/40 Breakdown: 2675 psi Avg. Treat: 2746 psi @ 24 BPM ISIP: 1872 5 min 1211, 10 min 1168 15 min 1141.

Log:

Surface	0	-	30	
Sand	30	-	210	
Shale	210	-	270	
Sand	270	-	305	
Shale	305	-	460	
Sand	460	-	584	
Silt/Shale	584	-	740	
Sand	740	_	870	
Shale	870	-	980	
Sand	980	-	1065	
Silt/Shale_	1065		1240	
Sand Salt:	1240		1584	
Shale	1584	4 107	1618	
Sand	1618	-	1656	
Shale	1656	-	1680	
Sand Luis	1680	-	1712	
Lime Little?	1712	~	1748	
Shale	1748	_	1752	
Big Lime	1752	-	1896	
Big Injun	1896		1930	
Silt/Shale	1930		2028	ТD
, , ,				10

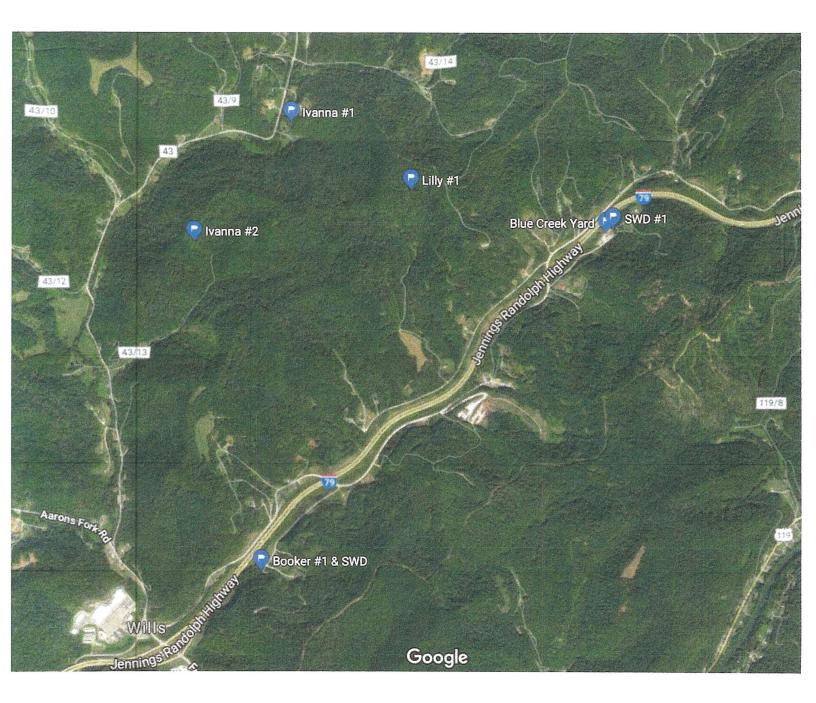
27-375

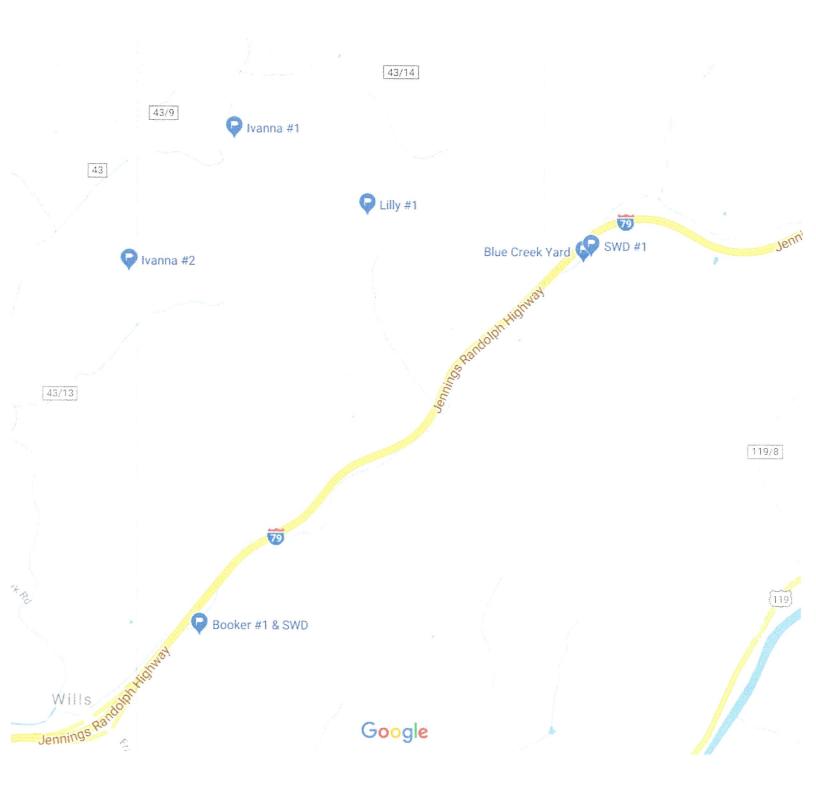
2011.

APPENDIX A Injection Well Form

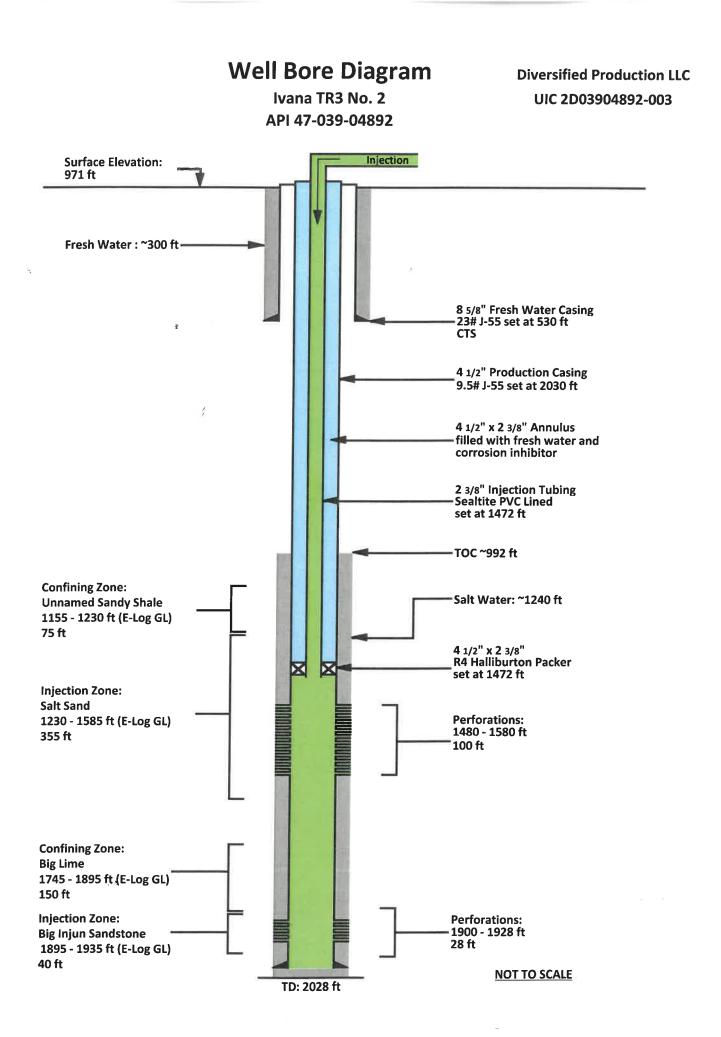
1) GEOLOGIC TARGET FORMATIO	N			
Depth	Feet (top)		Feet (bottom)	
2) Estimated Depth of Completed Well,	(or actual depth of existin	ng well):		Feet
3) Approximate water strata depths:	Fresh	Feet	Salt	Feet
4) Approximate coal seam depths:				
5) Is coal being mined in the area? Ye	es <u>No</u>			
6) Virgin reservoir pressure in target for	mation psig	Sourc	ce	
7) Estimated reservoir fracture pressure				psig (BHFP)
8) MAXIMUM PROPOSED INJECTIO	ON OPERATIONS:			
Injection rate (bbl/hour)				
Injection volume (bbl/day)				
Bottom hole pressure (psig)				
9) DETAILED IDENTIFICATION OF	MATERIALS TO BE IN	JECTED, II	NCLUDING ADDI	TIVES:
Temperature of injected fluid: (°F)				
10) FILTERS (IF ANY)				
11) SPECIFICATIONS FOR CATHOD	DIC PROTECTION AND	OTHER CO	ORROSION CONT	ROL











4	70390)4892 _{AP1}	1	9-Apr-93
AUG 0 2 93 Division of Enviro Section of O	st Virgin nmental P	ia rotection	REC	-04892 , EIVED]
WV Division of Environmental Protection Well Operator's R	eport of	Well Work	59 3	0,93
Farm name: CARTE, JAMES & GERRY	Operator	Well No.:		KELL#2
LOCATION: Elevation: 971.00 Quad	rangle: B	LUE CREEK	Environm	antal Protection
District: ELK Latitude: 6960 Feet Sou Longitude 10040 Feet Wes	th of 38	ounty: KANA Deg. 30Min Deg. 27 Mi	500	• .
Company:QUAKER STATE CORPORATION P. O. BOX 189/1226 PUTNAM HOW BELERE OF 45714 0100	El Casing	l Used in		
BELPRE, OH 45714-0189	&		Left	Cement Fill Up
Agent: FRANK R. ROTUNDA		Drilling	in Well	Cu. Ft.
Inspector: CARLOS HIVELY Permit Issued: 04/19/93 Well work Commenced: 06/16/93 Well work Completed: 06/23/93	Size <u>8 5/8</u>	530	530	180 sx
Verbal Plugging Permission granted on:	4 1/2		2030	210 sx
Rotary Cable Rig Total Depth (feet) 2026 Fresh water depths (ft)	2 3/8		1450	
Salt water depths (ft) 1240				
Is coal being mined in area (Y/N)? Coal Depths (ft):_NA				
OPEN FLOW DATA		· ••• ••• ••• ••• ••• ••• ••• ••• ••• •	۱ ۲۰ و ۲ ^۹	
Time of open flow between in	d Oil: In d Fi itial and	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u>	1900 Bbl/d Bbl/d Hours Hours
Time of open flow between in	d Oil: In d Fi itial and	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u> s	Bb1/d Bb1/d Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

	••• *	For:	QUAKER	STATE	CORPORA	ATION		
MG .					Rotunda 2, 1993	· · · ·	and the second s	
	فمعسد					9 		2

:

¥ ب

PERF: by Young Wireline in the Big Injun from 1900 - 1928 w/27

FRAC: By Halliburton w/414 bbls water,150 sx 10/20 Breakdown: 2200 psi Avg. Treat: 1728 psi @ 30 BPM ISIP: 1346, 5 min 750, 10 min 570 15 min 404.

Second Stage:

ى ئۇرىغى مەمۇرىيە ئىز ئىلارىغا

- PERF: by Young Wireline in the Salt Sand from 1480 1580 w/60 holes.
- FRAC: by Halliburton w/674 bbls water, 375 sx 20/40 Breakdown: 2675 psi Avg. Treat: 2746 psi @ 24 BPM ISIP: 1872 5 min 1211, 10 min 1168 15 min 1141.

Log:

Surface	0	-	30	
Sand	30	-	210	
Shale	210	-	270	
Sand	270	-	305	
Shale	305	-	460	
Sand	460	-	584	
Silt/Shale	584	-	740	
Sand	740	_	870	
Shale	870	-	980	
Sand	980	-	1065	
Silt/Shale_	1065		1240	
Sand Salt:	1240		1584	
Shale	1584	4 107	1618	
Sand	1618	-	1656	
Shale	1656	-	1680	
Sand Luis	1680	-	1712	
Lime Little?	1712	~	1748	
Shale	1748	_	1752	
Big Lime	1752	-	1896	
Big Injun	1896		1930	
Silt/Shale	1930		2028	ТD
, , ,				10

27-375

2011.

APPENDIX A Injection Well Form

1) GEOLOGIC TARGET FORMATIO	N			
Depth	Feet (top)		Feet (bottom)	
2) Estimated Depth of Completed Well,	(or actual depth of existin	ng well):		Feet
3) Approximate water strata depths:	Fresh	Feet	Salt	Feet
4) Approximate coal seam depths:				
5) Is coal being mined in the area? Ye	es <u>No</u>			
6) Virgin reservoir pressure in target for	mation psig	Sourc	ce	
7) Estimated reservoir fracture pressure				psig (BHFP)
8) MAXIMUM PROPOSED INJECTIO	ON OPERATIONS:			
Injection rate (bbl/hour)				
Injection volume (bbl/day)				
Bottom hole pressure (psig)				
9) DETAILED IDENTIFICATION OF	MATERIALS TO BE IN	JECTED, II	NCLUDING ADDI	TIVES:
Temperature of injected fluid: (°F)				
10) FILTERS (IF ANY)				
11) SPECIFICATIONS FOR CATHOD	DIC PROTECTION AND	OTHER CO	ORROSION CONT	ROL



API No.:

APPENDIX A (cont.)

12. Casing and Tubing Program

ТҮРЕ	<u>Size</u>	<u>New or</u> <u>Used</u>	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling	INTERVALS: Left in Well	<u>CEMENT:</u> <u>Fill-up (Cu.</u> <u>Ft.)</u>
Conductor							
Fresh Water							
Coal							
Intermediate 1							
Intermediate 2							
Production							
Tubing							
Liners							

ТҮРЕ	Wellbore Diameter	<u>Casing</u> <u>Size</u>	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./sk)	Cement to Surface ? (Y or N)
Conductor							
Fresh Water							
Coal							
Intermediate 1							
Intermediate 2							
Production							
Tubing							
Liners							

PACKERS	Packer #1	Packer #2	Packer #3	Packer #4
Kind:				
Sizes:				
Depths Set:				

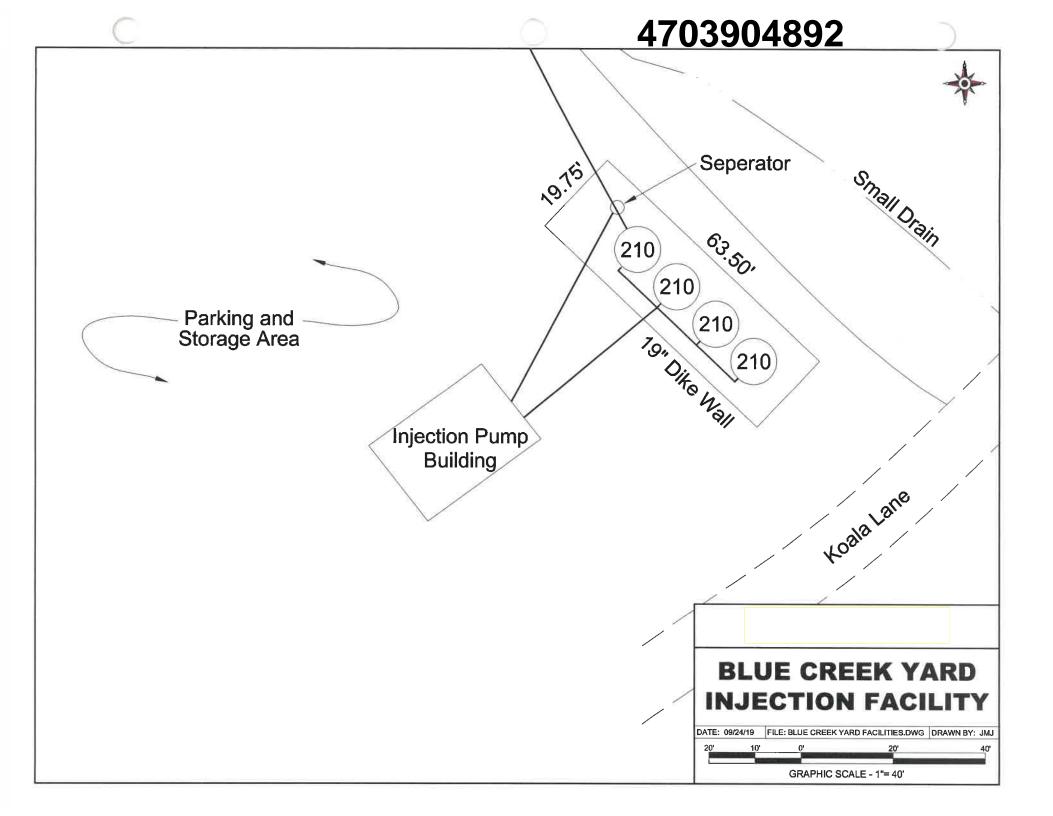


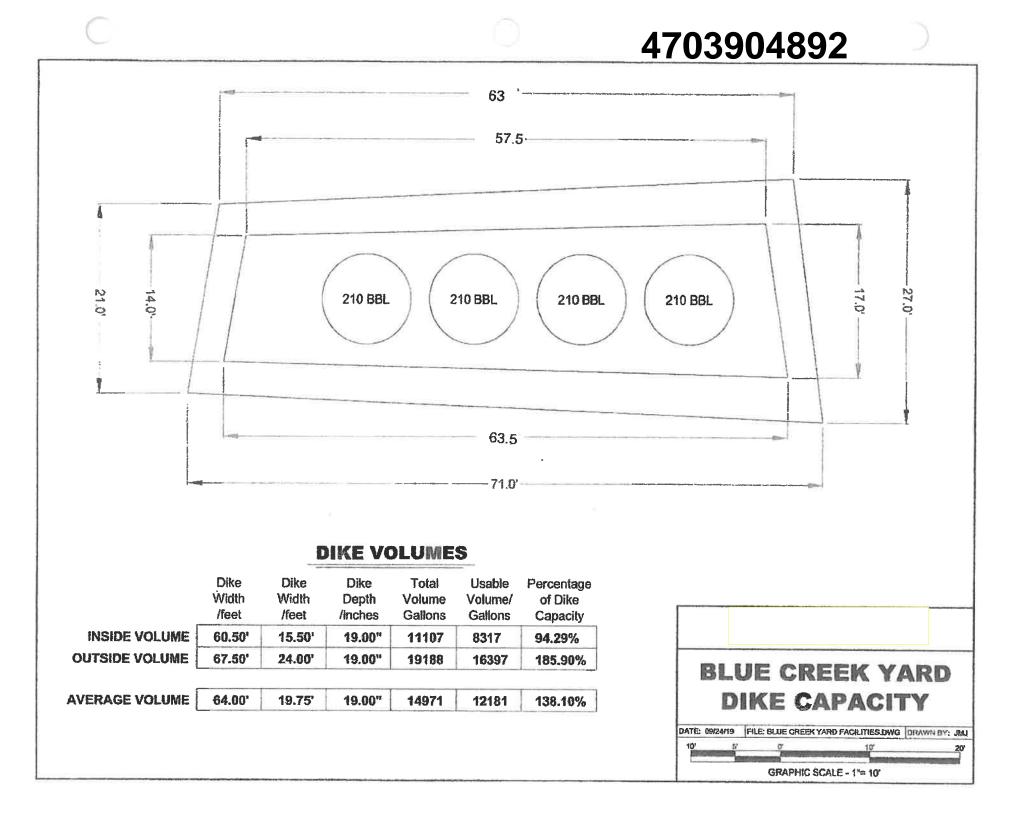
APPENDIX B

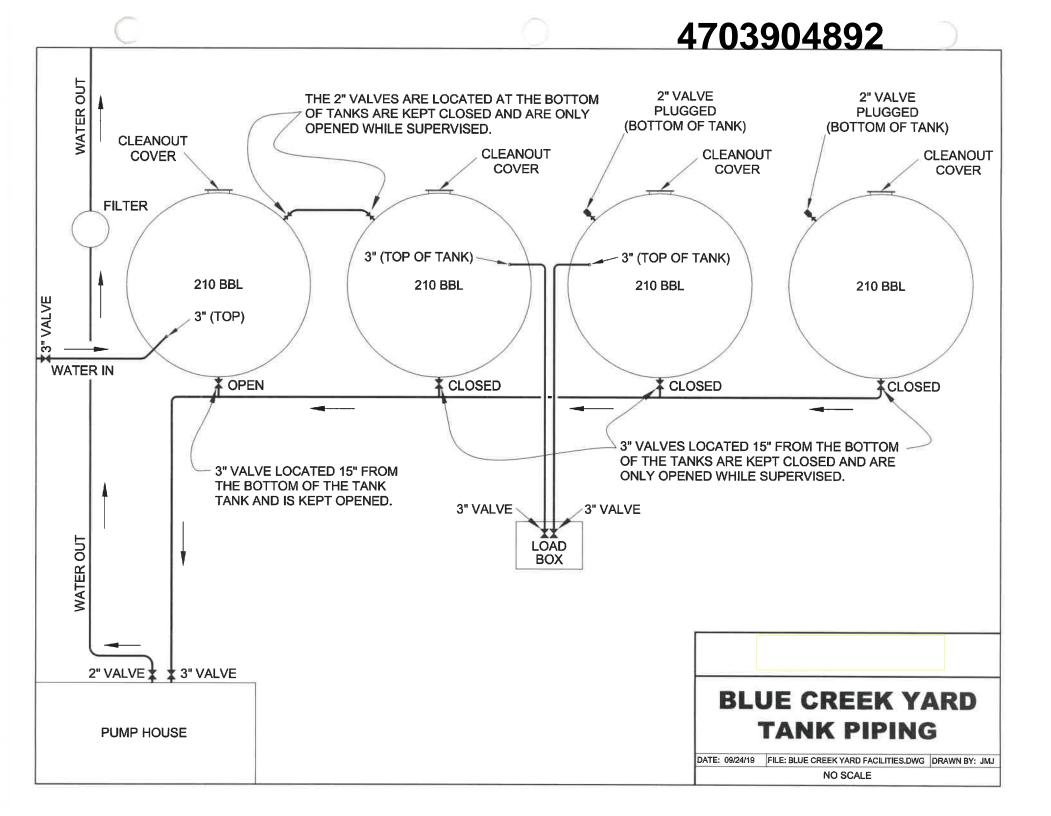
UIC Permit No.

Storage Tank Inventory

Tank ID	AST	Tank Lo	cation	Capacity	Type of Fluid	Construction	Tank Type	Installation	Tank Age
No.	Registration No.	Northing	Easting	(barrels)	Stored	Material (Steel, Plastic, etc.)	(Single / Double Wall)	Date	(Months)
							<u> </u>		





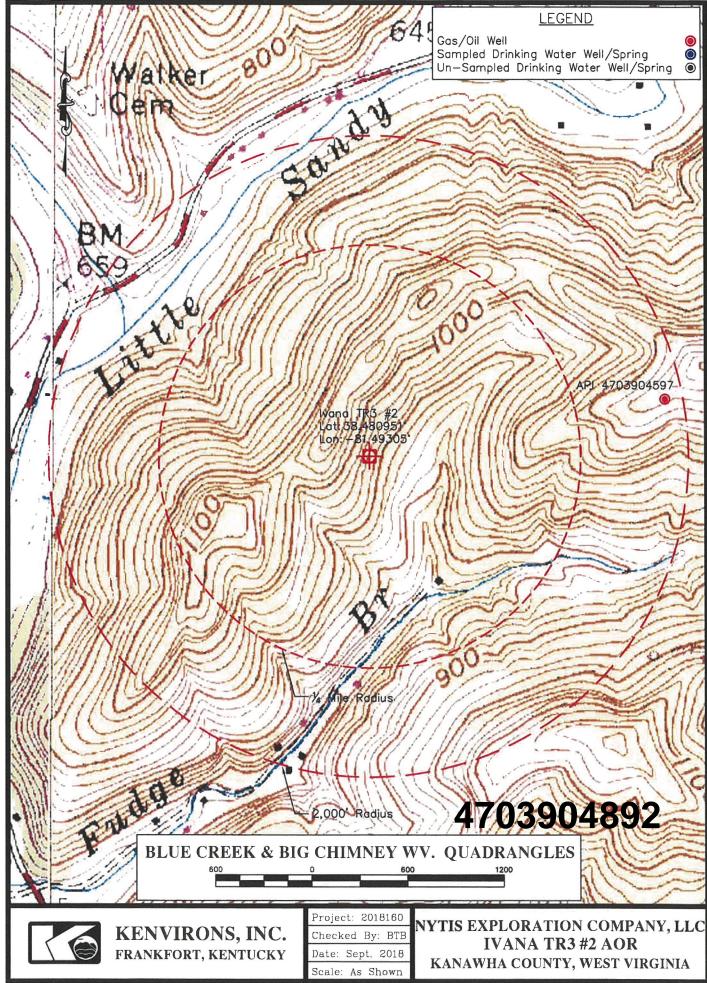




Section 7 - Area of Review

UIC 2D0394892

There are no changes in the number of wells or sampling locations since the last application.



N:\P\2018160\MISCELLANEOUS\IVANA2 QTRMILE-V2.dwg, 3/11/2019 11:54:11 AM, pth, iR-ADV C5535.pc3

UIC Permit No.

APPENDIX C Wells within the Area of Review

	API No.	Well Type	Well Status	Northing	Easting	Surface Elevation	Total Vertical Depth	Penetrate Confining Zone (Y or N)	Penetrate Injection Zone (Y or N)
1									
2							3		
3									
4									
5									
6									
7									
8				N1					
9			5	ar fé					
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

					4703904892
WVGFS	Select County: (039) Kanawha 🗸	Select datatypes: 🗌 (Check All)		County Code Translations
GEOLOGY UNDERLIES IT ALL	Enter Permit #: 4892	Location	Production	Plugging	Permit-Numbering Series Usage Notes
"Pipeline"	Get Data Reset	Owner/Completion	🗹 Stratigraphy	🗹 Sample	Contact Information Disclaimer
Fipelille	Ger Data	Pay/Show/Water	🗹 Logs	🗹 Btm Hole Loc	WVGES Main
					"Pipeline-Plus" New

WV Geological & Economic Survey	Well: County = 039 Permit = 4892 Link to all digital records Report Time: Friday, May 16, 2025 8:46:59 AM for well Friday, May 16, 2025 8:46:59 AM Friday, May 16, 2025 8:46:59 AM
Location Information: <u>View Map</u> API COUNTY PERMIT TAX_DISTRICT QUAD_7 4703904892 Kanawha 4892 Elk Blue Cree	5 QUAD_15 LAT_DD LON_DD UTME UTMN ek Clendenin 38.480951 -81.49305 456995.6 4259294.9
There is no Bottom Hole Location data for this we	I
Owner Information:	
API CMP_DT SUFFIX STATUS SURFACE 4703904892 6/23/1993 Original Loc Completed James & 0	E_OWNER WELL_NUM CO_NUM LEASE LEASE_NUM MINERAL_OWN OPERATOR_AT_COMPLETION PROP_VD PROP_TRGT_FM TFM_EST_PR Serry Carte Tr 3 Well 2 Ivana Co Quaker State Oil Refining Co.
	IELD DEEPEST_FM DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTHD TVD TMD NEW_FTG KOD G lue Ck(Fig Rk) Undf PRICE biw INJN Big Injun (Price&eq) Service Well Unsuccessful Salt Water Disp unknown Fractured 2028 2028
CMP_DT ACTIVITY PRODUCT SECTION 4703904892 6/23/1993 Water Fresh Water Vertical 4703904892 6/23/1993 Water Salt Water Vertical	0 1240 0
4703904892 6/23/1993 Horizon Injection Vertical 4703904892 6/23/1993 Horizon Injection Vertical	1480 Salt Sands (undiff) 1580 Salt Sands (undiff) 0 1900 Big Injun (undiff) 1928 Big Injun (undiff) 0
	2024 data for H6A wells only. Other wells are incomplete at this time. QAS JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM 0
	ome operators may have reported NGL under Oil * 2024 data for H6A wells only. Other wells are incomplete at this time.
Arri 3904892 North Coast Energy Eastern 2003 4703904892 North Coast Energy Eastern 2003 4703904892 North Coast Energy Eastern 2005 4703904892 North Coast Energy Eastern 2006 4703904892 Nytis Exploration Co., LLC 2017 4703904892 Nytis Exploration Co., LLC 2018	
	some operators may have reported NGL under Oil <u>*2024 data for H6A wells only</u> . Other wells are incomplete at this time. <u>I_NGL JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM</u> 0
	s) * 2024 data for H6A wells only. Other wells are incomplete at this time. _WTR JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DCM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Stratigraphy Information:	
API SUFFIX FM FM_QUALT 4703904892 Original Loc unidentified coal Electric Log 4703904892 Original Loc unidentified coal Electric Log 4703904892 Original Loc Miss/Penn boundary Electric Log 4703904892 Original Loc Big Lime Well Record 4703904892 Original Loc Big Lime Well Record 4703904892 Original Loc Big Lime Well Record 4703904892 Original Loc Price Fm & equivs Well Record	930 1 971 Ground Level 1584 971 Ground Level 1752 Reasonable 144 Reasonable 1896 Reasonable 34 Reasonable
Wireline (E-Log) Information:	
	ST_FML LOGS_AVAIL SCAN GR_TOP GR_BOT D_TOP D_BOT N_TOP N_BOT I_TOP I_BOT T_TOP T_BOT S_TOP S_BOT O_TOP O_BOT INCH2 IN
4703904892 Regular Entry 20 2030 Scanned/Raster Comment: *logs: caliper	G,D,C Y 20 2020 530 2030 505 2028 Y Y
* There is no Digitized/LAS Log data for this well	
	to save the scanned log or digitized log file(s) to your PC for viewing. To do so, right-click the file of interest and select the save f your choice. Please note the scanned log images vary in size and some may take several minutes to download.
Scanned/Raster Logs FILENAME 4703904892cdq.tif Understream (includes bulk dense photoelectric adsorption (F g gamma ray i induction (includes dual ind l laterolog m dipmeter n neutron (includes neutron po o other ¹ s sonic or velocity	g File Names For more info about WVGES scanned logs click here sity, compensated density, density, density porosity, grain density, matrix density, etc.) E or Pe, etc.) uction, medium induction, deep induction, etc.) porosity, sidewall neutronSWN, etc.) hole temperature, BHT, differential temperature, etc.)

- c caliper o other¹ p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL--casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL--Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4	70390)4892 _{AP1}	1	9-Apr-93
AUG 0 2 93 Division of Enviro Section of O	st Virgin	ia rotection	REC	-04892 , <u>EIVED</u>
WV Division of Environmental Protection Well Operator's R	eport of	Well Work	59 3	0,93
Farm name: CARTE, JAMES & GERRY	Operator	Well No.:		XELL#2
LOCATION: Elevation: 971.00 Quad	rangle: Bi	LUE CREEK	Environm	antal Protection
District: ELK Latitude: 6960 Feet Sou Longitude 10040 Feet Wes	th of 38	ounty: KANA Deg. 30Min Deg. 27 Mi	500	• .
Company:QUAKER STATE CORPORATION P. O. BOX 189/1226 PUTNAM HOW BELERE OF 45714 0100	El Casing	l Used in		
2221421 OU 42114-0183	&		Left	Cement Fill Up
Agent: FRANK R. ROTUNDA		Drilling	in Well	Cu. Ft.
Inspector: CARLOS HIVELY Permit Issued: 04/19/93 Well work Commenced: 06/16/93 Well work Completed: 06/23/93	Size <u>8 5/8</u>	530	530	180 sx
Verbal Plugging Permission granted on:	4 1/2		2030	210 sx
Rotary Cable Rig Total Depth (feet) 2626 Fresh water depths (ft)	2 3/8		1450	
Salt water depths (ft) 1240			3	
Is coal being mined in area (Y/N)? Coal Depths (ft): NA				
OPEN FLOW DATA			میں بین بین بین میں میں میں میں میں میں ا اس اور	
Time of open flow between in Static rock Pressure NA psig	'd Oil: In 'd Fi aitial and (surface	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u>	1900 Bbl/d Bbl/d Hours Hours
Time of open flow between in	d Oil: In d Fi itial and	Pay zone d itial open nal open fl final test pressure)	flow <u>NA</u> ow <u>NA</u> s	Bb1/d Bb1/d Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

	•••• *	For:	QUAKER	STATE	CORPORA	ATION		
MG .					Rotunda 2, 1993		- 	
	فمعسب							

:

¥ ب

PERF: by Young Wireline in the Big Injun from 1900 - 1928 w/27

FRAC: By Halliburton w/414 bbls water,150 sx 10/20 Breakdown: 2200 psi Avg. Treat: 1728 psi @ 30 BPM ISIP: 1346, 5 min 750, 10 min 570 15 min 404.

Second Stage:

ى ئۇرىغى مەمۇرىيە ئىز ئىلارىغا

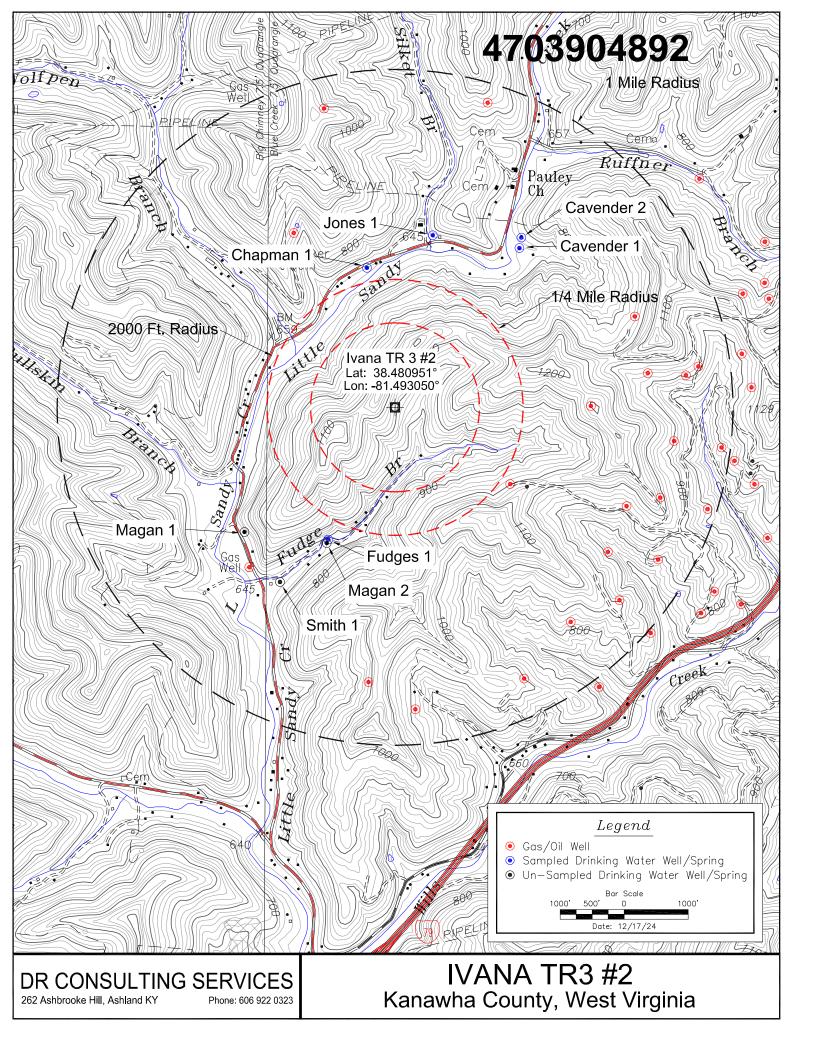
- PERF: by Young Wireline in the Salt Sand from 1480 1580 w/60 holes.
- FRAC: by Halliburton w/674 bbls water, 375 sx 20/40 Breakdown: 2675 psi Avg. Treat: 2746 psi @ 24 BPM ISIP: 1872 5 min 1211, 10 min 1168 15 min 1141.

Log:

Surface	0	-	30	
Sand	30	-	210	
Shale	210	-	270	
Sand	270	-	305	
Shale	305	-	460	
Sand	460	-	584	
Silt/Shale	584	-	740	
Sand	740	_	870	
Shale	870	-	980	
Sand	980	-	1065	
Silt/Shale_	1065		1240	
Sand Salt:	1240		1584	
Shale	1584	4 107	1618	
Sand	1618	-	1656	
Shale	1656	-	1680	
Sand Luis	1680	-	1712	
Lime Little?	1712	~	1748	
Shale	1748	_	1752	
Big Lime	1752	-	1896	
Big Injun	1896		1930	
Silt/Shale	1930		2028	ТD
, , ,				10

27-375

2011.



UIC Section 7 Water Wells and Springs Sampling Summary Ivana TR3 #2 UIC2D0394892

In location Mail	Wall Name			Estimated Distance	Complet	Notes
Injection Well	Well Name	Lat	Long	(miles)	Sampled	Notes
vana TR3 #2	Cavender 1	38.488048	-81.485992	0.63	Y	Well at house. Sampled from spigot
	Cavender 2	38.487579	-81.486073	0.61	Y	Open pit well with cover. Very clear/clean
	Cavender 3	38.487795	-81.485746	0.63	Y	Pond near house
	Jones 1	38.488290	-81.490943	0.53	Y	Well behind house, sampled from wash sink in well house.
	Jones 2	38.488305	-81.491025	0.53	Y	Open spring. Had leaves.
	Chapman 1	38.486838	-81.494510	0.42	Y	Sampled from spigot in basement. Formerly A Sams 1
	Smith 1	38.473324	-81.498864	0.61	N	House was vacant. Per neighbor the owner had past away.
	Magan 1	38.475453	-81.501040	0.57	N	Well at house. Due to serve drought owner did not the well sampled Open
	M agan 2	38.474987	-81.496585	0.45	N	pit well, no cover. Due to serve drought owner did not want the well sampled.
	Fudges 1	38.475018	-81.496635	0.48	N	Due to server drought owner did not want the well sampled

4703904892

APPENDIX E

Water Sources

Operator: Diversified Gas & Oil

Year 2024

UIC Permit # UIC2D0394892

		Source #1	Source #2	Source #3	Source #4
Water Source Name		Cavender 1 (well)	Cavender 2(dug well)	Cavender 3 (pond)	Chapman 1
Northing		4260021.51	4260079.06	4260050.9	4259948.78
Easting		457612.41	457621.61	457636.72	456871.81
Parameter	Units				
Chloride	mg/L	18.80	7.31	5.34	8.31
Bromide	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
Strontium	mg/L	0.0343	0.0719	0.305	0.0658
Barium	mg/L	0.0195	0.0754	0.126	0.0216
Iron	mg/L	1.05	0.0959	0.353	Not Detected
Total Dissolved Solids					
(TDS)	mg/L	300	120	84	88
рН	SU	8.04	5.66	6.64	7.48
Manganese	mg/L	0.0443	0.0155	0.0588	0.00275
Aluminum	mg/L	0.708	0.0636	Not Detected	0.0282
Arsenic	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
Sodium	mg/L	2.09	2.82	93.6	6.99
Calcium	mg/L	5.30	11.2	13.8	12.8
Sulfate	mg/L	0.400	8.62	8.51	24.0
MBAS	mg/L	Not Detected	Not Detected	Not Detected	Not Detected
page 1 of 2					

4703904892

APPENDIX E

Water Sources

Operator: Diversified Gas & Oil

Year 2024

UIC Permit # UIC2D0394892

		Source #5	Source #6	Source #7	Source #8
Water Source Name		Jones 1(well)	Jones 2 (spring)		
Northing		4260108.23	4260109.94		
Easting		457183.77	457176.27		
Parameter	Units				
Chloride	mg/L	2.84	0.890		
Bromide	mg/L	Not Detected	Not Detected		
Strontium	mg/L	0.191	0.167		
Barium	mg/L	0.0713	0.0217		
Iron	mg/L	Not Detected	Not Detected		
Total Dissolved Solids					
(TDS)	mg/L	230	330		
рН	SU	8.28	8.12		
Manganese	mg/L	0.0102	0.0139		
Aluminum	mg/L	Not Detected	0.114		
Arsenic	mg/L	Not Detected	Not Detected		
Sodium	mg/L	96.1	113		
Calcium	mg/L	4.80	24.2		
Sulfate	mg/L	0.878	8.00		
MBAS	mg/L	Not Detected	Not Detected		
page 2 of 2					

page 2 of 2



Domestic Water Analyses

17-Dec-2024

Lisa Raffle Diversified Gas & Oil Corporation PO Box 6070 Charleston, WV 25362

Re: UIC Water Well

Work Order: 24120095

Dear Lisa,

ALS Environmental received 3 samples on 04-Dec-2024 01:36 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - South Charleston and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 1740 Union Carbide Drive, South Charleston, WV, USA PHONE: +1 (304) 356-3168 FAX: +1 (304) 205-6262

Sincerely,

Rebecca Kiser

Electronically approved by: Rebecca Kiser

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 385

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order Sample Summary
Work Order:	24120095	1 2

<u>Lab Samp ID</u> <u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	<u>Hold</u>
24120095-01 Chapman 1 Grab	Water		12/4/2024 11:05	12/4/2024 13:36	
24120095-01 Chapman 1 Grab	Water		12/4/2024 11:05	12/5/2024 08:00	
24120095-02 Jones 1 Grab	Water		12/4/2024 11:32	12/4/2024 13:36	
24120095-02 Jones 1 Grab	Water		12/4/2024 11:32	12/5/2024 08:00	
24120095-03 Jones 2 (Spring) Grab	Water		12/4/2024 11:28	12/4/2024 13:36	
24120095-03 Jones 2 (Spring) Grab	Water		12/4/2024 11:28	12/5/2024 08:00	

Date: 17-Dec-24

ALS Group, USA

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Case Narrative
Work Order:	24120095	

Samples for the above noted Work Order were received on 12/04/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:

Batch R415626, Method A4500-H B-11, Samples 24120095-01B,-02B,-03B: pH was received and analyzed outside of the holding time at the request of the client. Results should be considered estimated.

Client:	Diversified Gas & Oil Corporation	QUALIFIERS ,
Project: WorkOrder:	UIC Water Well	ACRONYMS, UNITS
workOruer:	24120095	

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O P	Sample amount is > 4 times amount spiked
R	Dual Column results percent difference > 40% RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
<u>Acronym</u>	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
А	APHA Standard Methods
D	ASTM
Е	EPA
SW	SW-846 Update III
Units Reported	Description
mg MBAS/L	Milligrams Methylene Blue Active Substances per Liter
mg/L	Milligrams per Liter
s.u.	Standard Units

_

Date: 17-Dec-24

Client:	Diversified Gas & Oil C							
Project:	X X XD 04100005.01)95	
Sample ID:							095-01	
Collection Date	: 12/4/2024 11:05 AM		Matrix: WATER					
Analyses		Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATO)RY)		Meth	nod: A4500-H	B-11			Analyst: SAM
pH (laboratory)		7.48	Н	0	0.020	s.u.	1	12/4/2024 17:36
Temperature		20.6	Hn	0		s.u.	1	12/4/2024 17:36

_

Date: *17-Dec-24*

Client:	Diversified Gas & Oil C	Corporation									
Project: UIC Water Well						Work (Order: 241200	95			
Sample ID:	5					Lab ID: 24120095-02					
Collection Date: 12/4/2024 11:32 AM Matrix: WATER							R				
Analyses		Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed			
PH (LABORATO	RY)		Meth	od: A4500-H	B-11			Analyst: SAM			
pH (laboratory)		8.28	Н	0	0.020	s.u.	1	12/4/2024 17:36			
Temperature		20.3	Hn	0		s.u.	1	12/4/2024 17:36			

_

Date: 17-Dec-24

Client:	Diversified Gas & Oil C	orporation							
Project:	UIC Water Well			Work (Order: 241200)95			
Sample ID:	Jones 2 (Spring) Grab			Lab ID: 24120095-03					
Collection Date:	12/4/2024 11:28 AM		Matrix: WATER						
Analyses		Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed	
PH (LABORATO	RY)		Meth	od: A4500-H	B-11			Analyst: SAM	
pH (laboratory)		8.12	Н	0	0.020	s.u.	1	12/4/2024 17:36	
Temperature		20.7	Hn	0		s.u.	1	12/4/2024 17:36	

Client:	Diversified Gas & Oil Corporation
Work Order:	24120095
Project:	UIC Water Well

Date: 17-Dec-24

QC BATCH REPORT

Batch ID: R415626	Instrument ID STC-	wc	Me	ethod:	A4500-H B-	11					
LCS	Sample ID: LCS-R41562	6-R415626			Ui	nits: s.u.		Analys	is Date:	12/4/2024 ()5:36 PM
Client ID:		Run ID: STC	-WC_2412	04F	Seq	No: 1129	1895	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL S	PK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPI	RPD Limit	Qual
pH (laboratory)	3.95	0	0.020	4	0	98.8	90-110	0			
DUP	Sample ID: 24120095-011	B DUP			Ui	nits: s.u.		Analys	is Date:	12/4/2024 ()5:36 PM
Client ID: Chapman	1 Grab	Run ID: STC	-WC_2412	04F	Seq	No: 1129	1897	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL S	PK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPI	RPD Limit	Qual
pH (laboratory)	7.5	0	0.020	0	0	0	0-0	7.48	0.26	67 20	н
Temperature	20.5	0	0	0	0	0		20.6	0.48	37	Н
The following samp	les were analyzed in this	batch:	24120095	5-01B	241200	95-02B	24	120095-03B			

	ALS 1740 Union C	arbide D)rive	Cha	in of (Cust	ody F	orm	1			ALS 3352	128th	Avenu	le			
	South Charle	rleston, WV 25303 Page of Holland, Michiga 56,3168 (Tel) 616.399.607						n 4942	4									
ALS	(Tel) 304.356 (Fax) 304.205			L	15	513	5							99.607				
					ALS F		lanager:				A	LS Wo	ork Ord	ler #:				
Cust	omer Information	1 30	Pr	oject Inf	ormatio	n				Para	meter	/Meth	od Re	quest	for Ar	alysis	5	
Purchase Order		Pr	oject Name		waw		Mr	A	AL, A	15,	second and in strends in the second	a state of the sta	And in case of the local division of the loc	and the same in the same set of	Nat	the second second second second		
Work Order		Proje	ect Number						PH				1		,			
Company Name	Diversisied Goston Contemp.	Bill T	o Company						Br. C	1,5	004	TI	DS	M	3AS			
Send Report To	Lisa Raffle &		voice Attn.					D										
Address	Jeff Bulke		Address					E F										
City/State/Zip		Cit	ty/State/Zip					G		<u></u>								
Phone	724.579.2320	1	Phone		0			н										
Fax			Fax			0.5104		1										
e-Mail Address	Iraffleedgoc. com	-/ 104	ferronb	entre 12	36 em	A.C.	n m	J										
No.	Sample Description	Comp / Grab	Date	Time	Matrix	Pres.	# Bottles	A	В	С	D	E	F	G	н	1	J	Hold
1 Chap	man 1	Gib	12/4/24	11:05AL	waln		3	×	X	×			1	1				
2 Jones	1	Gris	12/4/21	11532A	- who		3	×	×	×							-	
3 Jones	2 (Spring)	Gids	1-1+12+	1.0.		1	3	×	×	×								1
4	6 62 prom 31	0149	67001					~				1	1	1				+
5		+							+				21.	120	095			
6		1													UJJ as & Oil Corp			
7		1	1	1		1			1			DIVE		ect: UIC Wa		0121011		
8		1							1									
9							1											
10		1				1			1		11							
Sampler(s): Please	Print & Sign Colgb Robert	>	Shipment	Method:	100 C		Time in E		ss Day	s (BD)		ner 1 BD		Re	sults D	ue Date): 	
Relinquisited by:	Date: 12/4/24	Time: // 35		by:	10	, ,	u.		Temp:		otes:						10.00 (D. 10.00)	2.000 m
Relinquished by:				ived by:	d Di	inder	N	4	fist									
Donald B	undette 12/4/24	133	6 4	Ttich	elle	Ala	h		26	a								
Relinquished by:	Date:	Time:		ived by:			÷.		Temp:	Q	C Pack	age: ((Check	Box Be	low)			
Relinquished by:	Date:	Time:	Rece	ived by (Lab	oratory):			-		F				~				
.ogged by (Laboratory):	Date:	Time:	Chec	ked by (Labo	oratory):					L	evel II	I: Stan			w Data			
Preservative Key:	1-HCI 2-HNO3 3-H2SO4	4-Na	OH 5-N	la ₂ S ₂ O ₃	6-NaHS	SO4 7	-Other	8-4°	С		ther:	. 5 11 0		/110(15/\				

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

Copyright 2014 by ALS

ALS Environmental

1740 Union Carbide Drive South Charleston, WV 25303

Sample Receiving Checklist							
Received by:	mlit						
Date/Time:	12.4.24 1336						
Carrier Name:	Client						
Shipping container/cooler in good condition?	Yes INo / Not Present						
Custody seals intact on shipping container/cooler?	Yes / No / Not Present						
Custody seals intact on sample bottles?	Yes / No (Not Present)						
Chain of Custody present?	(Yes) No						
COC signed when relinquished and received?	(Yes) No						
COC agrees with sample labels?	(Yes) No						
Samples in proper container/bottle?	Yes No						
Sample containers intact?	(Yes) No						
Sufficient sample volume for indicated test?	(Yes) No						
All samples received within holding time?	(Yes) No						
All sample temperatures verified to be in compliance?	Yes No						
Temperature(s) (°C):	Lloc						
Thermometer(s):	IR.Gun						
Sample(s) received on ice?	(Yes)No						
Matrix/Matrices:	Water						
Cooler(s)/Kit(s):							
Date/Time sample(s) sent to storage:							
Trip Blanks included? (for volatile analysis only)	Yes (No)N/A						
Water - VOA vials have zero headspace?	Yes / No / No Vials						
Water – pH acceptable upon receipt?	Yes / No(N/A)						
pH strip lot #:							
pH adjusted (note adjustments below)?	Yes / No (N/A)						
pH adjusted by:							
Login Notes:							

Sample Receiving Checklist

Login Notes:

24120095

DIVERSIFIED: Diversified Gas & Oil Corporation Project: UIC Water Well



QA Control Number: Chklst Rev.03 11/4/2021



17-Dec-2024

Lisa Raffle Diversified Gas & Oil Corporation PO Box 6070 Charleston, WV 25362

Re: UIC Water Well

Work Order: 24120095

Dear Lisa,

ALS Environmental received 3 samples on 05-Dec-2024 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Rebecca Kiser

Electronically approved by: Rebecca Kiser

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 355

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order Sample Summary
Work Order:	24120095	1 2

<u>Lab Samp ID</u> <u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	Collection Date	Date Received	<u>Hold</u>
24120095-01 Chapman 1 Grab	Water		12/4/2024 11:05	12/4/2024 13:36	
24120095-01 Chapman 1 Grab	Water		12/4/2024 11:05	12/5/2024 08:00	
24120095-02 Jones 1 Grab	Water		12/4/2024 11:32	12/4/2024 13:36	
24120095-02 Jones 1 Grab	Water		12/4/2024 11:32	12/5/2024 08:00	
24120095-03 Jones 2 (Spring) Grab	Water		12/4/2024 11:28	12/4/2024 13:36	
24120095-03 Jones 2 (Spring) Grab	Water		12/4/2024 11:28	12/5/2024 08:00	

Date: 17-Dec-24

ALS Group, USA

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Case Narrative
Work Order:	24120095	

Samples for the above noted Work Order were received on 12/05/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 251150, Method E200.7, Sample 24120095-03AMS: The MS and/or MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte: Al

Batch 251150, Method E200.7, Sample 24120095-03AMS: The MS and/or MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Na

No other deviations or anomalies were noted.

Client:	Diversified Gas & Oil Corporation	QUALIFIERS ,
Project: WorkOrder:	UIC Water Well	ACRONYMS, UNITS
workOruer:	24120095	

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O P	Sample amount is > 4 times amount spiked
R	Dual Column results percent difference > 40% RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
<u>Acronym</u>	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
А	APHA Standard Methods
D	ASTM
Е	EPA
SW	SW-846 Update III
Units Reported	Description
mg MBAS/L	Milligrams Methylene Blue Active Substances per Liter
mg/L	Milligrams per Liter
s.u.	Standard Units

_

Date: *17-Dec-24*

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order: 24120095
Sample ID:	Chapman 1 Grab	Lab ID: 24120095-01
Collection Date:	12/4/2024 11:05 AM	Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Meth	od: E200.7		Prep: CEM-N	IPDES / 12/8/24	Analyst: DSC
Aluminum	0.0282		0.010	0.010	mg/L	1	12/16/2024 12:48
Arsenic	U		0.0016	0.0050	mg/L	1	12/16/2024 12:48
Barium	0.0216		0.0043	0.0050	mg/L	1	12/12/2024 16:36
Calcium	12.8		0.39	0.50	mg/L	1	12/12/2024 16:36
Iron	U		0.079	0.080	mg/L	1	12/16/2024 12:48
Manganese	0.00275	J	0.0023	0.0050	mg/L	1	12/12/2024 16:36
Sodium	6.99		0.26	0.50	mg/L	1	12/12/2024 16:36
Strontium	0.0656		0.0012	0.0050	mg/L	1	12/12/2024 16:36
ANIONS BY ION CHROMATOGRAPHY		Meth	od:E300.0				Analyst: QTN
Bromide	U		0.032	0.20	mg/L	1	12/10/2024 19:56
Chloride	8.31		0.31	1.0	mg/L	1	12/10/2024 19:56
Sulfate	24.0		0.76	4.0	mg/L	4	12/12/2024 01:47
MBAS, AS LAS, MOL WT 348		Meth	od: A5540C-11				Analyst: BJK
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/5/2024 17:45
TOTAL DISSOLVED SOLIDS		Meth	od: A2540 C-1	5	Prep: FILTEF	R / 12/6/24	Analyst: SRN
Total Dissolved Solids	88		22	30	mg/L	1	12/9/2024 17:12

_

Date: 17-Dec-24

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order: 24120095
Sample ID:	Jones 1 Grab	Lab ID: 24120095-02
Collection Date:	12/4/2024 11:32 AM	Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Meth	nod: E200.7		Prep: CEM-N	IPDES / 12/8/24	4 Analyst: DSC
Aluminum	U		0.010	0.010	mg/L	1	12/12/2024 16:42
Arsenic	U		0.0016	0.0050	mg/L	1	12/16/2024 12:54
Barium	0.0713		0.0043	0.0050	mg/L	1	12/12/2024 16:42
Calcium	4.80		0.39	0.50	mg/L	1	12/12/2024 16:42
Iron	U		0.079	0.080	mg/L	1	12/16/2024 12:54
Manganese	0.0102		0.0023	0.0050	mg/L	1	12/12/2024 16:42
Sodium	96.1		0.26	0.50	mg/L	1	12/12/2024 16:42
Strontium	0.191		0.0012	0.0050	mg/L	1	12/12/2024 16:42
ANIONS BY ION CHROMATOGRAPHY		Meth	nod: E300.0				Analyst: QTN
Bromide	U		0.032	0.20	mg/L	1	12/10/2024 20:06
Chloride	2.84		0.31	1.0	mg/L	1	12/10/2024 20:06
Sulfate	0.878	J	0.19	1.0	mg/L	1	12/10/2024 20:06
MBAS, AS LAS, MOL WT 348		Meth	nod: A5540C-11				Analyst: BJK
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/5/2024 17:45
TOTAL DISSOLVED SOLIDS		Meth	nod: A2540 C-1	5	Prep: FILTEF	R / 12/6/24	Analyst: SRN
Total Dissolved Solids	230		37	50	mg/L	1	12/9/2024 17:12

Date: 17-Dec-24

		Report	Dilution
Collection Date:	12/4/2024 11:28 AM		Matrix: WATER
Sample ID:	Jones 2 (Spring) Grab		Lab ID: 24120095-03
Project:	UIC Water Well		Work Order: 24120095
Client:	Diversified Gas & Oil Corporation		

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analy	yzed
METALS BY ICP-AES		Metho	od: E200.7		Prep: CEM-N	IPDES / 12/8/24	4 Analyst:	DSC
Aluminum	0.114		0.10	0.10	mg/L	10	12/16/2024	13:00
Arsenic	U		0.016	0.050	mg/L	10	12/16/2024	13:00
Barium	0.0217		0.0043	0.0050	mg/L	1	12/12/2024	16:48
Calcium	24.2		0.39	0.50	mg/L	1	12/12/2024	16:48
Iron	U		0.79	0.80	mg/L	10	12/16/2024	13:00
Manganese	0.0139		0.0023	0.0050	mg/L	1	12/12/2024	16:48
Sodium	113		2.6	5.0	mg/L	10	12/16/2024	13:00
Strontium	0.167		0.0012	0.0050	mg/L	1	12/12/2024	16:48
ANIONS BY ION CHROMATOGRAPHY		Metho	od:E300.0				Analyst:	QTN
Bromide	U		0.032	0.20	mg/L	1	12/10/2024	20:16
Chloride	0.890	J	0.31	1.0	mg/L	1	12/10/2024	20:16
Sulfate	8.00		0.19	1.0	mg/L	1	12/10/2024	20:16
MBAS, AS LAS, MOL WT 348		Metho	od: A5540C-11				Analyst:	BJK
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/5/2024	17:45
TOTAL DISSOLVED SOLIDS		Metho	od: A2540 C-1	5	Prep: FILTEF	R / 12/6/24	Analyst:	SRN
Total Dissolved Solids	330		37	50	mg/L	1	12/9/2024	17:12

Client:	Diversified Gas & Oil Corporation
Work Order:	24120095
Project:	UIC Water Well

Date: 17-Dec-24

QC BATCH REPORT

Batch ID: 251150	Instrument ID ICP2			Method:	E200.7						
MBLK	Sample ID: MBLK-25115	0-251150			Ui	nits: mg/l	_	Analysi	2/12/2024	04:24 PM	
Client ID:		Run ID: ICP	2_24121	2A	Seq	No: 1131	0366	Prep Date: 12/8	/2024	DF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Aluminum	U	0.01	0.010								
Barium	U	0.0043	0.0050								
Calcium	U	0.39	0.50								
Iron	U	0.079	0.080								
Manganese	U	0.0023	0.0050								
Sodium	U	0.26	0.50								
Strontium	U	0.0012	0.0050								
MBLK	Sample ID: MBLK-25115	0-251150			Ui	nits: mg/l	_	Analysi	s Date: 12	2/16/2024	12:35 PM
Client ID:		Run ID: ICP	2_24121	6A	Seq	No: 113 1	5962	Prep Date: 12/8	/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	U	0.0016	0.0050								
LCS	Sample ID: LCS-251150-	251150			U	nits: mg/l	_	Analysi	s Date: 12	2/12/2024	04:30 PM
Client ID:		Run ID: ICP	2_24121	2A	Seq	No: 1131	0367	Prep Date: 12/8	/2024	DF: 1	
					SPK Ref		Control	RPD Ref		RPD Limit	
Analyte	Result	MDL		SPK Val	Value	%REC		Value	%RPD	Liinit	Qual
Arsenic	0.1104	0.0016	0.0050		0	110	85-115	0			
Calcium	11.2	0.39	0.50		0	112	85-115	0			
Sodium	10.68	0.26	0.50		0	107	85-115	0			
Strontium	0.1103	0.0012	0.0050	0.1	0	110	85-115	0			
LCS	Sample ID: LCS-251150-	251150			U	nits: mg/l	_	Analysi	s Date: 12	2/16/2024	12:42 PM
Client ID:		Run ID: ICP	2_24121	6A	Seq	No: 1131	5963	Prep Date: 12/8	/2024	DF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Value	%REC		Value	%RPD	Limit	Qual
Aluminum	0.108	0.01	0.010		0	108	85-115	0			
Barium	0.1096	0.0043	0.0050		0	110	85-115	0			
Iron	11.45	0.079	0.080		0	115	85-115	0			
Manganese	0.1063	0.0023	0.0050		0	106	85-115	0			
MS	Sample ID: 24120095-03	AMS			Ui	nits: mg/l	_	Analysi	s Date: 12	2/12/2024	04:55 PM
Client ID: Jones 2	(Spring) Grab	Run ID: ICP	2_24121	2A	Seq	No: 1131	0371	Prep Date: 12/8	/2024	DF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Calcium	34.97	0.39	0.50	10	24.19	108	70-130	0			
Strontium	0.2762	0.0012	0.0050	0.1	0.1667	110	70-130	0			

Batch ID: 251150	Instrument ID ICP2			Method:	E200.7						
MS	Sample ID: 24120095-03/	AMS			Un	nits: mg/L	-	Analysi	s Date: 12	2/16/2024	01:19 PM
Client ID: Jones 2	(Spring) Grab	Run ID: ICP	2_24121	6A	Seq	No: 1131	5969	Prep Date: 12/8	/2024	DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1507	0.1	0.10	0.1	0.1143	36.4	70-130	0			S
Arsenic	0.1049	0.016	0.050	0.1	-0.003102	108	70-130	0			
Iron	11.28	0.79	0.80	10	-0.07701	114	70-130	0			
Sodium	115.8	2.6	5.0	10	113	27.5	70-130	0			SO
MSD	Sample ID: 24120095-03/	AMSD			Un	nits: mg/L	_	Analysi	s Date: 12	2/12/2024	05:01 PM
Client ID: Jones 2	(Spring) Grab	Run ID: ICP	2_24121	2A	Seq	No: 1131	0372	Prep Date: 12/8	/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	35.92	0.39	0.50	10	24.19	117	70-130	34.97	2.68	20	
Strontium	0.2828	0.0012	0.0050	0.1	0.1667	116	70-130	0.2762	2.37	20	
MSD	Sample ID: 24120095-03	AMSD			Un	nits: mg/L	-	Analysi	s Date: 12	2/16/2024	01:25 PM
Client ID: Jones 2	(Spring) Grab	Run ID: ICP	2_24121	6A	Seq	No: 1131	5970	Prep Date: 12/8	/2024	DF: 10	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1796	0.1	0.10	0.1	0.1143	65.3	70-130	0.1507	17.5	20	S
Arsenic	0.09794	0.016	0.050	0.1	-0.003102	101	70-130		6.86		
Iron	11.45	0.79	0.80	10	-0.07701	115	70-130		1.5	20	
Sodium	118	2.6	5.0	10	113	49.5	70-130		1.88		SO

24120095-01A

The following samples were analyzed in this batch:

24120095-02A

24120095-03A

QC BATCH REPORT

Batch ID: 250142	Instrument ID TDS		Method:	A2540 C-	15					
MBLK	Sample ID: MBLK-25014	2-250142			Units: mg /	Ľ	Analysi	s Date: 1	2/9/2024 0	5:12 PM
Client ID:		Run ID: TDS	5_241209A	S	eqNo: 113	02663	Prep Date: 12/6	/2024	DF: 1	
Analyte	Result	MDL	PQL SPK Val	SPK Re Value	f %RE0	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls U	22	30							
LCS	Sample ID: LCS-250142-	250142			Units: mg /	'L	Analysi	s Date: 1	2/9/2024 0	5:12 PM
Client ID:		Run ID: TDS	5_241209A	S	eqNo: 113	02662	Prep Date: 12/6	/2024	DF: 1	
Analyte	Result	MDL	PQL SPK Val	SPK Re Value	f %RE0	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solic	ls 480	22	30 495		0 97	85-109) 0			
DUP	Sample ID: 24120122-03	A DUP			Units: mg /	Ľ	Analysi	s Date: 1 2	2/9/2024 0	5:12 PM
Client ID:		Run ID: TDS	6_241209A	S	eqNo: 113	02657	Prep Date: 12/6	/2024	DF: 1	
Analyte	Result	MDL	PQL SPK Val	SPK Re Value	f %RE0	Control	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls 556.7	37	50 0		0 0	0-0	513.3	8.1	10	
DUP	Sample ID: 24120144-09	A DUP			Units: mg /	Ľ	Analysi	s Date: 1 2	2/9/2024 0	5:12 PM
Client ID:		Run ID: TDS	6_241209A	S	eqNo: 113	02661	Prep Date: 12/6	/2024	DF: 1	
Analyte	Result	MDL	PQL SPK Val	SPK Re Value	f %RE0	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls 596.7	37	50 0		0 0	0-0	560	6.34	10	
The following samp	les were analyzed in this	batch:	24120095-01C	2412	0095-02C	24	4120095-03C		-	

MBLK	Sample ID:	MB-R415700	-R415700		U	nits:mg N	IBAS/L	Analy	sis Date:	12/5/2024 0	5:45 PM
Client ID:			Run ID: WE	TCHEM_241205L	Sec	No: 1129	4205	Prep Date:		DF: 1	
Analyte		Result	MDL	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPE	RPD Limit	Qual
Anionic Surfactar	nts as MBAS	U	0.12	0.40							
LCS	Sample ID:	LCS-R41570	0-R415700		U	nits: mg N	IBAS/L	Analy	sis Date:	12/5/2024 (5:45 PM
Client ID:			Run ID: WE	TCHEM_241205L	Sec	No: 1129	4206	Prep Date:		DF: 1	
Analyte		Result	MDL	PQL SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Anionic Surfactar	nts as MBAS	0.4	0.12	0.40 0.5	0	80	75-125)		
DUP	Sample ID:	24120077-01	B DUP		U	nits:mg N	IBAS/L	Analy	sis Date:	12/5/2024 (5:45 PM
Client ID:			Run ID: WE	TCHEM_241205L	Sec	No: 1129	4208	Prep Date:		DF: 1	
					SPK Ref Value	* D C O	Control Limit	RPD Ref Value	%RPD	RPD Limit	0
Analyte		Result	MDL	PQL SPK Val	, and o	%REC			%RPL)	Qual

QC BATCH REPORT

Batch ID: R415889C	Instrument ID IC3			Method:	E300.0						
MBLK	Sample ID: MBLK-C-R41	5889C			Un	its: mg/L	_	Analys	sis Date: 1 2	2/10/2024	05:03 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6576	Prep Date:		DF: 1	
	D	MD	POL		SPK Ref Value	0/ D = 0	Control Limit	RPD Ref Value	*/ DDD	RPD Limit	01
Analyte Bromide	ResultU	0.032	0.20	SPK Val		%REC		14140	%RPD		Qual
Chloride	U	0.032	1.0								
Sulfate	U	0.19	1.0								
LCS	Sample ID: LCS-C-R415	889C			Un	its: mg/L	_	Analys	sis Date: 12	2/10/2024	04:53 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6575	Prep Date:		DF: 1	
					SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL		SPK Val	Value	%REC		Value	%RPD	Limit	Qual
Bromide	2.03	0.032	0.20	2	0	102	90-110	C			
Chloride	9.728	0.31	1.0	10	0	97.3	90-110				
Sulfate	10.57	0.19	1.0	10	0	106	90-110	C)		
MS	Sample ID: 24110766-04	EMS			Un	its: mg/L	-	Analys	sis Date: 12	2/10/2024	05:22 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6578	Prep Date:		DF: 10)
Analyte	Result	MDL	POI	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	192.4	1.9	10	100	91.82	101		C			Quai
MS	Sample ID: 24110766-15	EMS			Un	its: mg/L	_	Analys	sis Date: 12	2/10/2024	07:27 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6590	Prep Date:		DF: 4	
A		MD	POL		SPK Ref Value	0/ D = 0	Control Limit	RPD Ref Value	** 000	RPD Limit	0
Analyte Bromide	Result	MDL		SPK Val		%REC			%RPD		Qual
Chloride	8.674 74.5	0.13 1.2	0.80 4.0	8 40	0 32.72	108 104	90-110 90-110	C			
Sulfate	87.78	0.76	4.0	40	45.21	104	90-110	C			Е
MSD	Sample ID: 24110766-04	E MSD			Un	its: mg/L	_	Analys	sis Date: 12	2/10/2024	05:32 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6579	Prep Date:		DF: 10)
Analyte	Result	MDL	POI	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	192	1.9	10	100	91.82	100	90-110	192.4		10	Quui
MSD	Sample ID: 24110766-15	E MSD			Un	its: mg/L	_	Analys	sis Date: 12	2/10/2024	07:37 P
Client ID:		Run ID: IC3_	241210	4	Seq	No: 1130	6591	Prep Date:		DF: 4	
					SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
Bromide	8.524	0.13	0.80	8	0	107	90-110	8.674			
Chloride	74.1	1.2	4.0	40	32.72	103	90-110				
Sulfate	87.13	0.76	4.0	40	45.21	105	90-110	87.78	0.747	10	Е

QC BATCH REPORT

Batch ID: R416037C	Instrument ID IC3		М	ethod:	E300.	0							
MBLK	Sample ID: MBLK-C-R41	6037C				Un	its: mg/L	-		Analysis	a Date: 12	/12/2024	12:58 AM
Client ID:		Run ID: IC3	_241211A			Seq	No: 1130	9536	Prep	Date:		DF: 1	
Analyte	Result	MDL	PQL S	PK Val	SPK Va	Ref lue	%REC	Control Limit	I	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	U	0.19	1.0										
LCS	Sample ID: LCS-C-R416	037C				Un	its: mg/L	-		Analysis	a Date: 12	/12/2024	12:48 AM
Client ID:		Run ID: IC3	_241211A			Seq	No: 1130	9535	Prep	Date:		DF: 1	
Analyte	Result	MDL	PQL S	PK Val	SPK Va	Ref lue	%REC	Control Limit	I	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	10.66	0.19	1.0	10		0	107	90-110		0			
MS	Sample ID: 24120057-01	C MS				Un	its: mg/L	-		Analysis	a Date: 12	/12/2024	01:28 AM
Client ID:		Run ID: IC3	_241211A			Seq	No: 1130	9539	Prep	Date:		DF: 10	I
Analyte	Result	MDL	PQL S	SPK Val	SPK Va	Ref lue	%REC	Control Limit	I	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	3555	1.9	10	100		3463	92.1	90-110		0			EO
MSD	Sample ID: 24120057-01	C MSD				Un	its: mg/L	-		Analysis	a Date: 12	/12/2024	01:37 AM
Client ID:		Run ID: IC3	_241211A			Seql	No: 1130	9540	Prep	Date:		DF: 10	
Analyte	Result	MDL	PQL S	SPK Val	SPK Va	Ref lue	%REC	Control Limit	I	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfate	3437	1.9	10	100		3463	-26.1	90-110		3555	3.38	10	SEO
The following sampl	es were analyzed in this	batch:	2412009	5-01C									

AL	Subcontractor: ALS Environmental - 3352 128th Avenue Holland, MI 49424 Salesperson		SHN Ac	FAX: (6 Acct #:	16) 399-607 16) 399-618			DIV	/ERSIFIED: (120 Diversified Ga oject: UIC Wat	s & Oil Corpo				Date: COC II Due Da): <u>27</u>	<u>-Dec-24</u> 529 1-Dec-24
C	Customer Information			Pro	ject Inforr	nation	1			1 01			· •••		lysis		
Purchase Order			Project	Name	2412009	5	A	Tota	al Dissol	ved Soli	ds (A25	40 C-15	5)				
Work Order			Project	Number			B	MB/	AS, as L	AS, mo	wt 348	(A55400	C-11)				
Company Name	ALS Group USA, Corp		Bill To	Company	ALS Grou	p USA, Corp	С	Anic	ons by l	on Chro	matogra	phy (E3	00.0)				
Send Report To	Rebecca Kiser		Inv Att	n	Accounts	Payable	D	Meta	als by I	CP-MS (SW6020)B)					
Address	1740 Union Carbide Dr.		Addres	S	1740 Unic	on Carbide Dr.	F										
City/State/Zip	So. Charleston, WV 25303	1	City/St	ate/Zip	So. Charle	eston, WV 25303	G										
Phone	(304) 356-3168		Phone		(304) 356	-3168	Н										
Fax			Fax				1										
eMail Address	rebecca.kiser@alsglobal.com		eMail (C			J										
ALS Sample ID	Client Sample ID	Ma	trix	Collection	Date 24hr	Bottle	ŀ	A	В	С	D	E	F	G	H	1	J
24120095-01A	Chapman 1 Grab	Wa	iter	4/Dec/202	4 11:05	(1) 125PHNO3					x						
24120095-01C	Chapman 1 Grab	Wa	iter	4/Dec/202	4 11:05	² (1) 500PNeat	Σ	x	Х	X							
24120095-02A	Jones 1 Grab	Wa	iter	4/Dec/202	4 11:32	(1) 125PHNO3					X						
24120095-02C	Jones 1 Grab	Wa	iter	4/Dec/202	4 11:32	• (1) 500PNeat	3	x	X	х							
24120095-03A	Jones 2 (Spring) Grab	Wa	iter	4/Dec/202	4 11:28	(1) 125PHNO3					X						
24120095-03C	Jones 2 (Spring) Grab	Wa	ter	4/Dec/202	4 11:28	(1) 500PNeat	X	x	X	X							

Comments: <u>WV San</u>	nples Sampler: J.B./C.R.				
Michell Hold Relinquished by:	<u>Mu 12.4.24 [5</u> Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
Relinquished by:	Date/Time	Received by:	Date/Time		Std

ALS Group, USA Holland, Michigan

Sample Receipt Checklist

Client Name: DIVERSIFIED Work Order: 24120095		Date/Time F		<u>04-Dec-24</u>	<u>I 13:36</u>
Work Order. <u>24120033</u>		Received by	/.	<u>CMK</u>	
Checklist completed by Caleb Koetje	05-Dec-24	Reviewed by:	Rebecca	Kiser	05-Dec-24
eSignature	Date		eSignature		Date
Matrices: Water Carrier name: Courier					
Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Prese	nt 🗌	
Custody seals intact on shipping container/cooler?	Yes 🗸	No 🗌	Not Prese	nt 🗌	
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Prese	nt 🗹	
Chain of custody present?	Yes 🗹	No 🗌			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗸	No 🗌			
Sample containers intact?	Yes 🗸	No 🗌			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗌			
All samples received within holding time?	Yes 🔽	No 🗌			
Container/Temp Blank temperature in compliance?	Yes 🔽	No 🗌			
Sample(s) received on ice?	Yes 🗹	No 🗌			
Temperature(s)/Thermometer(s):	<u><6.0c</u>		Df2		
Cooler(s)/Kit(s):					
Date/Time sample(s) sent to storage:	12/5/2024 9 Yes		No VOA vials	submitted	\checkmark
Water - VOA vials have zero headspace?			_	Submitted	
Water - pH acceptable upon receipt? pH adjusted?	Yes ⊻ Yes □	_	N/A		
pH adjusted by:	- Tes				
Login Notes: <u>pH check <2</u>					
Client Contacted: Date Contacte	d:	Person	Contacted:		
Contacted By: Regarding:					
,					
Comments:					

CorrectiveAction:

SRC Page 1 of 1



09-Jan-2025

Jeff Burke Diversified Gas & Oil Corporation PO Box 6070 Charleston, WV 25362

Re: UIC Water Well

Work Order: 24120491

Dear Jeff,

ALS Environmental received 4 samples on 19-Dec-2024 11:51 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - South Charleston and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 1740 Union Carbide Drive, South Charleston, WV, USA PHONE: +1 (304) 356-3168 FAX: +1 (304) 205-6262

Sincerely,

Rebecca Kiser

Electronically approved by: Briana Lothes

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 385

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 09-Jan-25

_

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Or
Work Order:	24120491	

Work Order Sample Summary

Lab Samp ID <u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
24120491-01 C.Pritt 2 (Pond) Grab	Water		12/19/2024 10:02	12/19/2024 11:51
24120491-01 C.Pritt 2 (Pond) Grab	Water		12/19/2024 10:02	12/20/2024 10:00
24120491-02 Cavender 1 Grab	Water		12/19/2024 09:04	12/19/2024 11:51 🛛
24120491-02 Cavender 1 Grab	Water		12/19/2024 09:04	12/20/2024 10:00
24120491-03 Cavender 2 (duglopan well) Grab	Water		12/19/2024 09:11	12/19/2024 11:51 🛛
24120491-03 Cavender 2 (duglopan well) Grab	Water		12/19/2024 09:11	12/20/2024 10:00
24120491-04 Cavender 3 (pond)	Water		12/19/2024 09:18	12/19/2024 11:51 🛛
24120491-04 Cavender 3 (pond)	Water		12/19/2024 09:18	12/20/2024 10:00

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Case Narrative
Work Order:	24120491	

Samples for the above noted Work Order were received on 12/19/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:

Batch R416402, Method A4500-H B-11, Samples 24120491-01C, -02C, -03C, -04C: Samples were received and analyzed outside of the holding time at the request of the client. Results should be considered estimated. pH

Date: 09-Jan-25

ALS Group, USA

-

Client:	Diversified Gas & Oil Corporation	QUALIFIERS ,
Project:	UIC Water Well	ACRONYMS, UNITS
WorkOrder:	24120491	ACKON IMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

TDL Target Detection Limit

TNTC

А	APHA Standard Methods
D	ASTM
Е	EPA
SW	SW-846 Update III
Units Reported	Description
mg MBAS/L	Milligrams Methylene Blue Active Substances per Liter
mg/L	Milligrams per Liter

Too Numerous To Count

0	8 1
s.u.	Standard Units

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order: 24120491
Sample ID:	C.Pritt 2 (Pond) Grab	Lab ID: 24120491-01
Collection Date	: 12/19/2024 10:02 AM	Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)		Meth	od: A4500-H B	3-11			Analyst: BJL
pH (laboratory)	6.66	Н	0	0.020	s.u.	1	12/19/2024 19:25
Temperature	21.0	Hn	0		s.u.	1	12/19/2024 19:25

Client:Diversified Gas & Oil CorporationProject:UIC Water WellWork Order: 24120491Sample ID:Cavender 1 GrabLab ID: 24120491-02Collection Date:12/19/2024 09:04 AMMatrix: WATER			Report	Dilution	
Project:UIC Water WellWork Order: 24120491	Collection Date:	12/19/2024 09:04 AM]	Matrix: WATER	
Work Orden 24120401	Sample ID:	Cavender 1 Grab]	Lab ID: 24120491-02	
Client: Diversified Gas & Oil Corporation	Project:	UIC Water Well	Work	Order: 24120491	
	Client:	Diversified Gas & Oil Corporation			

Analyses	Result	Qual	MDL	Limit	Units	Factor	Date Analyzed
PH (LABORATORY)		Metho	d: A4500-H	B-11			Analyst: BJL
pH (laboratory)	8.04	Н	0	0.020	s.u.	1	12/19/2024 19:25
Temperature	21.0	Hn	0		s.u.	1	12/19/2024 19:25

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Order: 24120491
Sample ID:	Cavender 2 (duglopan well) Grab	Lab ID: 24120491-03
Collection Date:	12/19/2024 09:11 AM	Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PH (LABORATORY)		Meth	nod: A4500-H E	3-11			Analyst: BJL
pH (laboratory)	5.66	Н	0	0.020	s.u.	1	12/19/2024 19:25
Temperature	21.2	Hn	0		s.u.	1	12/19/2024 19:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

		Report	Dilution	
Collection Date:	12/19/2024 09:18 AM		Matrix: WATER	
Sample ID:	Cavender 3 (pond)		Lab ID: 24120491-04	
Project:	UIC Water Well	,	Work Order: 24120491	
Client:	Diversified Gas & Oil Corporation			

Analyses	Result	Qual	MDL	Limit	Units	Factor	Date Analyzed
PH (LABORATORY)		Meth	od: A4500-H B	-11			Analyst: BJL
pH (laboratory)	6.64	Н	0	0.020	s.u.	1	12/19/2024 19:25
Temperature	21.2	Hn	0		s.u.	1	12/19/2024 19:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:Diversified Gas & Oil CorporationWork Order:24120491Project:UIC Water Well

QC BATCH REPORT

Batch ID: R416402	Instrument ID STC	-WC		Method:	A4500-	H B-1	1					
LCS	Sample ID: LCS-R41640	2-R416402				Un	its: s.u.		Analysis	s Date: 12	2/19/2024	07:25 PN
Client ID:		Run ID: STO	C-WC_24	1219E		Seq	No: 1132	4450	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Valı		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	4.04	0	0.020	4		0	101	90-110	0			
DUP	Sample ID: 24120489-05	D DUP				Un	its: s.u.		Analysis	s Date: 12	2/19/2024	07:25 PN
Client ID:		Run ID: STO	C-WC_24	1219E		Seq	No: 1132	4452	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Vali		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	7.97	0	0.020	0		0	0	0-0	7.96	0.126	20	Н
Temperature	21.4	0	0	0		0	0		21.1	1.41		н
The following samp	bles were analyzed in this	batch:	_	91-01C	24	1204	91-02C	24	120491-03C			

		1740 Union Ca South Charle (Tel) 304.356.	ston, W		Pa	ige	of					(Tel)	nd, Mi 616.39	9.607			
(ALS)	(Fax) 304.205	.6262			16	029)					616.3	Contraction of the local division of the loc	35		
						ALS F	Project M	lanager:			1	ALS Wo	ork Ord	er #:			
	mer Information	on			roject Inf					P	aram	eter/Meth	od Re	quest	for Analys	sis	
Purchase Order					·UIC	Wato	~ WO	c/1	A								
Work Order		and a second		ect Numbe					В								
Company Name	Diversific	Gostori		o Compan					C								
Send Report To	Lisa Raffl	c/scff.Bm	ike In	voice Attr	1.				D								
Address	P.D. Box	070		Addres	s				F			190 - E. F.					
City/State/Zip	Mailesdon M	IV 25362	Cit	ty/State/Zi	p				G								
Phone				Phon	e				н								
Fax				Fa	x				1								
e-Mail Address	raffleodgo	s. com/ieff	cisen l	bullecl	236 54	sal. c	Im.		J						0.000 (1000) (10		
	Sample Descripti		Comp / Grab	Date	Time	Matrix	Pres.	# Bottles	A	В	С	DE	F	G			ld
1 C. Prit	+ 2 (000	(5)	Grab	12/19/0	4 10:02 AM	W		3									pl
2 Caven	tz (pon der l		Grab	1=119/2	19:04An	W	1	3		1							of
3 Cavena	les 2 (dag	lopin will)	Grob	12/19/2	9:11An	W		3								g	P
4 Caucht	13 Lpo	ad)	Grab	12/19/2	4 9: 12An	W		3								VERS	ph
5		151			+ + + + + + + + + + + + + + + + + + + +			~~~			1			1		24	
6			1				1	1			-		1				
7										+						2049 ersified Gas & Oil C ject Water Well	-
			1				ļ									Gas &	-
8			ļ										<u> </u>	<u> </u>		[™] S ^Ω	-
9							ļ						ļ			orpora	_
10																lion	
ampler(s): Please F leff Burkc	Print & Sign	h	34	Shipmer	nt Method:			Time in E			BD):	Other 1 BD		Re			
linquished by:		Date:	Time:	Re	caived by:	1. 11	1		T	Temp:	Note	s:			e e		
gy B	end	12/19/2020	11:51	rah u	Michel	llust	Sh		1	NGR							
linquished by:		Date:	Time:	Re	ceived by:				1	JUR LUR	1						24
linquished by:		Date:	Time:	Re	ceived by:				2	Temp:	QC	Package: (Check E	Box Bel	low)		
linquished by:		Date:	Time:	Re	ceived by (Lab	oratory):			-		La	vel II: Stand	dard O(~			_
gged by (Laboratory):		Date:	Time:	Ch	ecked by (Labo	oratory):			-			el III: Stan			w Data	-	-

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

Copyright 2014 by ALS

ALS Environmental

1740 Union Carbide Drive South Charleston, WV 25303

Sample Receiving Checklist

Received by: MLH Date/Time: Date/All 1151 Carrier Name: Clickt Shipping container/cooler in good condition? Yes/No / Not Present Custody seals intact on shipping container/cooler? Yes / No / Not Present Custody seals intact on sample bottles? Yes / No / Not Present Custody seals intact on sample bottles? Yes / No COC signed when relinquished and received? Yes / No COC agrees with sample labels? Yes / No Sufficient sample volume for indicated test? Yes / No All samples received within holding time? Yes / No All sample temperatures verified to be in compliance? Yes / No Matrix/Matrices: Walter Cooler(s)/Kit(s): IL-GuA Sample(s) received on ice? Yes / No Matrix/Matrices: Walter Trip Blanks included? (for volatile analysis only) Yes / No / No Vials Water – VOA vials have zero headspace? Yes / No / No / Nia pH strip lot #:		p	
Carrier Name: Clicht Shipping container/cooler in good condition? Yes/ No / Not Present Custody seals intact on shipping container/cooler? Yes / No / Not Present Custody seals intact on sample bottles? Yes / No Custody seals intact on sample bottles? Yes / No Custody present? Yes / No COC signed when relinquished and received? Yes / No COC agrees with sample labels? Yes / No Samples in proper container/bottle? Yes / No Sufficient sample volume for indicated test? Yes / No All sample temperatures verified to be in compliance? Yes / No All sample temperatures verified to be in compliance? Yes / No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	Received by:		MLH
Shipping container/cooler in good condition?Yes/No/Not PresentCustody seals intact on shipping container/cooler?Yes/No/Not PresentCustody seals intact on sample bottles?Yes/No/Not PresentChain of Custody present?Yes/NoCOC signed when relinquished and received?Yes) NoCOC agrees with sample labels?Yes) NoSamples in proper container/bottle?Yes) NoSample containers intact?Yes) NoSufficient sample volume for indicated test?Yes) NoAll sample temperatures verified to be in compliance?Yes) NoTemperature(s) (°C):Il-GuASample(s) received on ice?Yes) NoMatrix/Matrices:WoderCooler(s)/Kit(s):Il-GuADate/Time sample(s) sent to storage:Il-GuATrip Blanks included? (for volatile analysis only)Yes / No (No Vials)Water – VOA vials have zero headspace?Yes / No (N/A)Water – pH acceptable upon receipt?Yes / No (N/A)pH adjusted (note adjustments below)?Yes / No (N/A)pH adjusted by:	Date/Time:		12.19.2.4 1151
Custody seals intact on shipping container/cooler? Yes / Not Not Present Custody seals intact on sample bottles? Yes / Not Not Present Chain of Custody present? Yes / No COC signed when relinquished and received? Yes / No COC agrees with sample labels? Yes / No Samples in proper container/bottle? Yes / No Sufficient sample volume for indicated test? Yes / No All sample received within holding time? Yes / No All sample temperatures verified to be in compliance? Yes / No Thermometer(s): Iffeduate Sample(s) received on ice? Yes / No Matrix/Matrices: Would'f Cooler(s)/Kit(s):	Carrier Name:		Client
Custody seals intact on sample bottles? Yes / Not Present Chain of Custody present? Yes / Not Present Chain of Custody present? Yes / No COC signed when relinquished and received? Yes / No COC agrees with sample labels? Yes / No Samples in proper container/bottle? Yes / No Sample containers intact? Yes / No Sufficient sample volume for indicated test? Yes / No All samples received within holding time? Yes / No All sample temperatures verified to be in compliance? Yes / No Temperature(s) (°C): Ill - Gun Sample(s) received on ice? Yes / No Matrix/Matrices: Woll er Cooler(s)/Kit(s):	Shipping container/cooler in good c	ondition?	Yes No / Not Present
Chain of Custody present? Yes) No COC signed when relinquished and received? Yes) No COC agrees with sample labels? Yes) No Samples in proper container/bottle? Yes) No Sample containers intact? Yes) No Sufficient sample volume for indicated test? Yes) No All samples received within holding time? Yes) No All sample temperatures verified to be in compliance? Yes) No Temperature(s) (°C): Il-GuA Sample(s) received on ice? Yes) No Matrix/Matrices: Wodefer Cooler(s)/Kit(s):	Custody seals intact on shipping con	ntainer/cooler?	Yes / Nor Not Present
COC signed when relinquished and received? Yes No COC agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No All sample temperatures verified to be in compliance? Yes No Temperature(s) (°C): Iff-Gun Sample(s) received on ice? Yes No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	Custody seals intact on sample bott	les?	Yes / Not Present
COC agrees with sample labels? Yes No Samples in proper container/bottle? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No All samples received within holding time? Yes No All sample temperatures verified to be in compliance? Yes No Temperature(s) (°C): Zb ² Thermometer(s): Jb ² Sample(s) received on ice? Yes No Matrix/Matrices: Woder Cooler(s)/Kit(s):	Chain of Custody present?		(Yes) No
Samples in proper container/bottle? Yes) No Sample containers intact? Yes) No Sufficient sample volume for indicated test? Yes) No All samples received within holding time? Yes) No All sample temperatures verified to be in compliance? Yes) No Temperature(s) (°C): Yes) No Thermometer(s): Yes) No Sample(s) received on ice? Yes) No Matrix/Matrices: Would' Cooler(s)/Kit(s):	COC signed when relinquished and	received?	(Yes) No
Sample containers intact? Yes) No Sufficient sample volume for indicated test? Yes) No All samples received within holding time? Yes) No All sample temperatures verified to be in compliance? Yes) No Temperature(s) (°C): ZLOZ Thermometer(s): IL-Gun Sample(s) received on ice? Yes) No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	COC agrees with sample labels?		Yes No
Sufficient sample volume for indicated test? Yes/ No All samples received within holding time? Yes/ No All sample temperatures verified to be in compliance? Yes/ No Temperature(s) (°C): Z.6*C Thermometer(s): Z.6*C Sample(s) received on ice? Yes/ No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	Samples in proper container/bottle?		YESY NO
All samples received within holding time? Vest No All sample temperatures verified to be in compliance? Vest No Temperature(s) (°C): Il-Gun Thermometer(s): Il-Gun Sample(s) received on ice? Yes No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	Sample containers intact?		Yes No
All sample temperatures verified to be in compliance? Yes No Temperature(s) (°C): Il-Gun Thermometer(s): Il-Gun Sample(s) received on ice? Yes No Matrix/Matrices: Woler Cooler(s)/Kit(s):	Sufficient sample volume for indica	ited test?	Yes/No
Temperature(s) (°C):	All samples received within holding	g time?	Yes No
Thermometer(s): Il-Gun Sample(s) received on ice? Yes) No Matrix/Matrices: Woler Cooler(s)/Kit(s):	All sample temperatures verified to	be in compliance?	(Yes) No
Sample(s) received on ice? Yes No Matrix/Matrices: Wolfer Cooler(s)/Kit(s):	Temperature(s) (°C):		2.6°C
Matrix/Matrices: Woler Cooler(s)/Kit(s):	Thermometer(s):		IR-Gun
Cooler(s)/Kit(s): Date/Time sample(s) sent to storage: Trip Blanks included? (for volatile analysis only) Water – VOA vials have zero headspace? Water – pH acceptable upon receipt? pH strip lot #: pH adjusted (note adjustments below)? pH adjusted by: 	Sample(s) received on ice?		(Yes) No
Date/Time sample(s) sent to storage: Trip Blanks included? (for volatile analysis only) Water – VOA vials have zero headspace? Water – pH acceptable upon receipt? pH strip lot #: pH adjusted (note adjustments below)? PH adjusted by:	Matrix/Matrices:		Walter
Trip Blanks included? (for volatile analysis only) Yes No N/A Water – VOA vials have zero headspace? Yes / No No Vials Water – pH acceptable upon receipt? Yes / No N/A pH strip lot #:	Cooler(s)/Kit(s):		
Water – VOA vials have zero headspace? Yes / No / No Vials Water – pH acceptable upon receipt? Yes / No / N/A pH strip lot #:	Date/Time sample(s) sent to storage	e:	
Water – pH acceptable upon receipt? Yes / No pH strip lot #:	Trip Blanks included? (for volatile	analysis only)	Yes No)N/A
pH strip lot #: pH adjusted (note adjustments below)? Yes / No N/A pH adjusted by:	Water – VOA vials have zero heads	space?	Yes / No / No Vials
pH adjusted (note adjustments below)? Yes / No N/A	Water - pH acceptable upon receip	t?	Yes / No /NIA
pH adjusted by:	pH strip lot #:		-
	pH adjusted (note adjustments belo	w)?	Yes / No (N/A)
Login Notes:	pH adjusted by:		
	Login Notes:		

24120491



QA Control Number: Chklst Rev.03 11/4/2021



09-Jan-2025

Jeff Burke Diversified Gas & Oil Corporation PO Box 6070 Charleston, WV 25362

Re: UIC Water Well

Work Order: 24120491

Dear Jeff,

ALS Environmental received 4 samples on 20-Dec-2024 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Rebecca Kiser

Electronically approved by: Briana Lothes

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 355

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 09-Jan-25

_

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Work Or
Work Order:	24120491	

Work Order Sample Summary

Lab Samp ID <u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
24120491-01 C.Pritt 2 (Pond) Grab	Water		12/19/2024 10:02	12/19/2024 11:51
24120491-01 C.Pritt 2 (Pond) Grab	Water		12/19/2024 10:02	12/20/2024 10:00
24120491-02 Cavender 1 Grab	Water		12/19/2024 09:04	12/19/2024 11:51 🛛
24120491-02 Cavender 1 Grab	Water		12/19/2024 09:04	12/20/2024 10:00
24120491-03 Cavender 2 (duglopan well) Grab	Water		12/19/2024 09:11	12/19/2024 11:51 🛛
24120491-03 Cavender 2 (duglopan well) Grab	Water		12/19/2024 09:11	12/20/2024 10:00
24120491-04 Cavender 3 (pond)	Water		12/19/2024 09:18	12/19/2024 11:51 🛛
24120491-04 Cavender 3 (pond)	Water		12/19/2024 09:18	12/20/2024 10:00

Date: 09-Jan-25

Client:	Diversified Gas & Oil Corporation	
Project:	UIC Water Well	Case Narrative
Work Order:	24120491	

Samples for the above noted Work Order were received on 12/20/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals: No other deviations or anomalies were noted.

Wet Chemistry: No other deviations or anomalies were noted.

Date: 09-Jan-25

ALS Group, USA

-

Client:	Diversified Gas & Oil Corporation	QUALIFIERS ,
Project:	UIC Water Well	ACRONYMS, UNITS
WorkOrder:	24120491	ACKON IMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
0	Sample amount is > 4 times amount spiked
Р	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
<u>Acronym</u>	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

TDL Target Detection Limit

TNTC

А	APHA Standard Methods
D	ASTM
Е	EPA
SW	SW-846 Update III
Units Reported	Description
mg MBAS/L	Milligrams Methylene Blue Active Substances per Liter
mg/L	Milligrams per Liter

Too Numerous To Count

8	8 1
s.u.	Standard Units

Client:	Diversified Gas & Oil Corporation
Project:	UIC Water Well
Sample ID:	C.Pritt 2 (Pond) Grab
Collection Date:	12/19/2024 10:02 AM

Work Order: 24120491 Lab ID: 24120491-01 Matrix: WATER

Analyses	Result	Qual MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Method: E200.7		Prep: CEM-N	NPDES / 12/27	7/24 Analyst: ABL
Aluminum	0.435	0.010	0.010	mg/L	1	1/6/2025 13:05
Arsenic	U	0.0016	0.0050	mg/L	1	1/8/2025 12:42
Barium	0.0256	0.0043	0.0050	mg/L	1	1/6/2025 13:05
Calcium	8.44	0.39	0.50	mg/L	1	1/6/2025 13:05
Iron	0.663	0.079	0.080	mg/L	1	1/6/2025 13:05
Manganese	0.0561	0.0023	0.0050	mg/L	1	1/6/2025 13:05
Sodium	4.04	0.26	0.50	mg/L	1	1/6/2025 13:05
Strontium	0.0487	0.0012	0.0050	mg/L	1	1/6/2025 13:05
ANIONS BY ION CHROMATOGRAPHY		Method: E300.0				Analyst: QTN
Bromide	U	0.032	0.20	mg/L	1	12/31/2024 01:56
Chloride	9.23	0.31	1.0	mg/L	1	12/31/2024 01:56
Sulfate	7.87	0.19	1.0	mg/L	1	12/31/2024 01:56
MBAS, AS LAS, MOL WT 348		Method: A5540C-1	1			Analyst: JNV
Anionic Surfactants as MBAS	U	0.12	0.40	mg MBAS/L	1	12/20/2024 14:13
TOTAL DISSOLVED SOLIDS		Method: A2540 C-	15	Prep: FILTER	R / 12/26/24	Analyst: SRN
Total Dissolved Solids	86	22	30	mg/L	1	12/30/2024 17:09

Client:	Diversified Gas & Oil Corporation
Project:	UIC Water Well
Sample ID:	Cavender 1 Grab
Collection Date:	12/19/2024 09:04 AM

Work Order: 24120491 Lab ID: 24120491-02 Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Metho	od: E200.7		Prep: CEM-N	NPDES / 12/27	7/24 Analyst: ABL
Aluminum	0.708		0.010	0.010	mg/L	1	1/6/2025 13:11
Arsenic	U		0.0016	0.0050	mg/L	1	1/8/2025 12:48
Barium	0.0195		0.0043	0.0050	mg/L	1	1/6/2025 13:11
Calcium	5.30		0.39	0.50	mg/L	1	1/6/2025 13:11
Iron	1.05		0.079	0.080	mg/L	1	1/6/2025 13:11
Manganese	0.0443		0.0023	0.0050	mg/L	1	1/6/2025 13:11
Sodium	2.09		0.26	0.50	mg/L	1	1/6/2025 13:11
Strontium	0.0343		0.0012	0.0050	mg/L	1	1/6/2025 13:11
ANIONS BY ION CHROMATOGRAPHY		Metho	d: E300.0				Analyst: QTN
Bromide	U		0.032	0.20	mg/L	1	12/31/2024 02:06
Chloride	18.8		5.0	16	mg/L	16	12/20/2024 21:09
Sulfate	0.400	J	0.19	1.0	mg/L	1	12/31/2024 02:06
MBAS, AS LAS, MOL WT 348		Metho	d: A5540C-11				Analyst: JNV
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/20/2024 14:13
TOTAL DISSOLVED SOLIDS		Metho	od: A2540 C-1	5	Prep: FILTEF	R / 12/24/24	Analyst: SRN
Total Dissolved Solids	300		37	50	mg/L	1	12/26/2024 17:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	Diversified Gas & Oil Corporation
Project:	UIC Water Well
Sample ID:	Cavender 2 (duglopan well) Grab
Collection Date:	12/19/2024 09:11 AM

Work Order: 24120491 Lab ID: 24120491-03 Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Met	hod: E200.7		Prep: CEM-N	NPDES / 12/27	//24 Analyst: ABL
Aluminum	0.0636		0.010	0.010	mg/L	1	1/6/2025 13:17
Arsenic	U		0.0016	0.0050	mg/L	1	1/8/2025 12:54
Barium	0.0754		0.0043	0.0050	mg/L	1	1/6/2025 13:17
Calcium	11.2		0.39	0.50	mg/L	1	1/6/2025 13:17
Iron	0.0959		0.079	0.080	mg/L	1	1/6/2025 13:17
Manganese	0.0155		0.0023	0.0050	mg/L	1	1/6/2025 13:17
Sodium	2.82		0.26	0.50	mg/L	1	1/6/2025 13:17
Strontium	0.0719		0.0012	0.0050	mg/L	1	1/6/2025 13:17
ANIONS BY ION CHROMATOGRAPHY		Met	hod: E300.0				Analyst: QTN
Bromide	U		0.51	3.2	mg/L	16	12/20/2024 21:18
Chloride	7.31	J	5.0	16	mg/L	16	12/20/2024 21:18
Sulfate	8.62	J	3.0	16	mg/L	16	12/20/2024 21:18
MBAS, AS LAS, MOL WT 348		Met	hod: A5540C-1 1	I			Analyst: JNV
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/20/2024 14:13
TOTAL DISSOLVED SOLIDS		Met	hod: A2540 C-1	5	Prep: FILTE	R / 12/24/24	Analyst: SRN
Total Dissolved Solids	120		22	30	mg/L	1	12/26/2024 17:33

Client:	Diversified Gas & Oil Corporation
Project:	UIC Water Well
Sample ID:	Cavender 3 (pond)
Collection Date:	12/19/2024 09:18 AM

Work Order: 24120491 Lab ID: 24120491-04 Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-AES		Met	hod: E200.7		Prep: CEM-N	NPDES / 12/27	//24 Analyst: ABL
Aluminum	U		0.010	0.010	mg/L	1	1/6/2025 13:23
Arsenic	U		0.0016	0.0050	mg/L	1	1/8/2025 13:00
Barium	0.126		0.0043	0.0050	mg/L	1	1/6/2025 13:23
Calcium	13.8		0.39	0.50	mg/L	1	1/6/2025 13:23
Iron	0.353		0.079	0.080	mg/L	1	1/6/2025 13:23
Manganese	0.0588		0.0023	0.0050	mg/L	1	1/6/2025 13:23
Sodium	93.6		0.26	0.50	mg/L	1	1/6/2025 13:23
Strontium	0.305		0.0012	0.0050	mg/L	1	1/6/2025 13:23
ANIONS BY ION CHROMATOGRAPHY		Met	hod: E300.0				Analyst: QTN
Bromide	U		0.51	3.2	mg/L	16	12/20/2024 21:26
Chloride	5.34	J	5.0	16	mg/L	16	12/20/2024 21:26
Sulfate	8.51	J	3.0	16	mg/L	16	12/20/2024 21:26
MBAS, AS LAS, MOL WT 348		Met	hod: A5540C-1 1	l			Analyst: JNV
Anionic Surfactants as MBAS	U		0.12	0.40	mg MBAS/L	1	12/20/2024 14:13
TOTAL DISSOLVED SOLIDS		Met	hod: A2540 C-1	5	Prep: FILTE	R / 12/24/24	Analyst: SRN
Total Dissolved Solids	84		22	30	mg/L	1	12/26/2024 17:33

Note: See Qualifiers page for a list of qualifiers and their definitions.

Diversified Gas & Oil Corporation **Client:** Work Order: 24120491 UIC Water Well **Project:**

QC BATCH REPORT

Batch ID: 251727	Instrument ID ICP2			Method:	E200.7								
MBLK	Sample ID: MBLK-251727-251727						Units: mg/L				Bate: 1/	6/2025 12	:53 PM
Client ID:		Run ID: ICP	2_25010	6A	5	SeqN	lo: 1135	0806	Prep [Date: 12/27	7/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Re Value		%REC	Control Limit	F	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.01	0.010				-						
Barium	U	0.0043	0.0050										
Calcium	U	0.39	0.50										
Iron	U	0.079	0.080										
Manganese	U	0.0023	0.0050										
Sodium	U	0.26	0.50										
Strontium	U	0.0012	0.0050										
MBLK	Sample ID: MBLK-25172	7-251727				Uni	its: mg/L	-		Analysis	Bate: 1/	8/2025 12	:30 PM
Client ID:		Run ID: ICP	2_25010	8A	5	SeqN	No: 1135	6359	Prep [Date: 12/27	7/2024	DF: 1	
Analita	Decult	MDI	DOI		SPK Re Value			Control Limit	F	RPD Ref Value	0/ חחח	RPD Limit	Qual
Analyte Arsenic	ResultU	MDL 0.0016	0.0050	SPK Val		-	%REC			, and e	%RPD		Qual
Alsenic	U	0.0016	0.0050										
LCS	Sample ID: LCS-251727-	251727				Uni	its: mg/L	-		Analysis	Date: 1/	6/2025 12	:59 PM
Client ID:		Run ID: ICP	2_25010	6A	S	SeqNo: 11350807			Prep Date: 12/27/2024			DF: 1	
					SPK Re			Control	F	RPD Ref		RPD Limit	
Analyte	Result	MDL		SPK Val	Value		%REC	Limit		Value	%RPD	LIIIII	Qual
Aluminum	0.09713	0.01	0.010	0.1		0	97.1	85-115		0			
Barium	0.1041	0.0043	0.0050	0.1		0	104	85-115		0			
Calcium	9.862	0.39	0.50	10		0	98.6	85-115		0			
Iron	10.08	0.079	0.080	10		0	101	85-115		0			
Manganese	0.09713	0.0023	0.0050	0.1		0	97.1	85-115		0			
Sodium Strontium	<u> </u>	0.26	0.50	10 0.1		0	100 98.6	85-115 85-115		0			
			0.0030	0.1		U	90.0	00-110		0			
LCS	Sample ID: LCS-251727-	251727				Uni	its: mg/L	-		Analysis	s Date: 1/	8/2025 12	:36 PM
Client ID:		Run ID: ICP	2_25010	8A	S	SeqN	No: 1135	6360	Prep [Date: 12/27	7/2024	DF: 1	
Analyte	Result	MDL	POI	SPK Val	SPK Re Value		%REC	Control Limit	F	RPD Ref Value	%RPD	RPD Limit	Qual
, analyto	Regult	MDL	I QL	Sintval			, on CEO						Qual

Batch ID: 251727

Instrument ID ICP2

Method: E200.7

MS	Sample ID: 24120491-0	4BMS			Ur	its: mg/L	_	Analysis	s Date: 1/	6/2025 01	:30 PM
Client ID: Cavende	er 3 (pond)	Run ID: ICF	P2_25010	6A	Seq	No: 1135	0812	Prep Date: 12/2	7/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09735	0.01	0.010	0.1	0.003234	94.1	70-130	0			
Barium	0.2208	0.0043	0.0050	0.1	0.126	94.7	70-130	0			
Calcium	22.65	0.39	0.50	10	13.79	88.6	70-130	0			
Iron	9.938	0.079	0.080	10	0.3527	95.9	70-130	0			
Manganese	0.1518	0.0023	0.0050	0.1	0.05885	92.9	70-130	0			
Sodium	101.4	0.26	0.50	10	93.58	78.7	70-130	0			EO
Strontium	0.3894	0.0012	0.0050	0.1	0.3049	84.5	70-130	0			
MS	Sample ID: 24120491-0	4BMS			Ur	its: mg/L	-	Analysis	s Date: 1/	8/2025 01	:07 PN
Client ID: Cavende	er 3 (pond)	Run ID: ICF	P2_25010	8A	Seq	No: 1135	6365	Prep Date: 12/2	7/2024	DF: 1	
Analyte	Result	MDL	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.09757	0.0016	0.0050	0.1	0.0006743	96.9	70-130	0			Qua
MSD	Sample ID: 24120491-0	4BMSD			Ur	its: mg/L	_	Analysis	s Date: 1/	6/2025 01	:36 PN
Client ID: Cavende	er 3 (pond)	Run ID: ICF	P2_25010	6A	Seq	SeqNo: 11350813		Prep Date: 12/2	DF: 1		
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.08564	0.01	0.010	0.1	0.003234	82.4	70-130	0.09735	12.8	20	
Barium	0.2221	0.0043	0.0050	0.1	0.126	96	70-130	0.2208	0.593	20	
Calcium	22.81	0.39	0.50	10	13.79	90.1	70-130	22.65	0.693	20	
Iron	9.825	0.079	0.080	10	0.3527	94.7	70-130	9.938	1.15	20	
Manganese	0.1498	0.0023	0.0050	0.1	0.05885	91	70-130	0.1518	1.31	20	
Sodium	102	0.26	0.50	10	93.58	84.1	70-130	101.4	0.531	20	EO
Strontium	0.3949	0.0012	0.0050	0.1	0.3049	90	70-130	0.3894	1.4	20	
MSD	Sample ID: 24120491-0	4BMSD			Ur	its: mg/L	-	Analysis	s Date: 1/	8/2025 01	:13 PN
Client ID: Cavende	er 3 (pond)	Run ID: ICF	P2_25010	8A	Seq	No: 1135	6366	Prep Date: 12/27/2024		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qua
Arsenic	0.09691	0.0016	0.0050	0.1	0.0006743	96.2	70-130	0.09757	0.679	20	
The following san	nples were analyzed in thi	s batch:		191-01B 191-04B	241204	91-02B	24	120491-03B			

Client:	Diversified Gas & Oil Corporation
Work Order:	24120491
Project:	UIC Water Well

Batch ID: 251676 Instrument ID TDS Method: A2540 C-15

MBLK	Sample ID: MBLK-25167	6-251676			U	nits: mg/L	-	Analysi	is Date:	12/26/2024	05:33 PN
Client ID:		Run ID: TDS	6_241226	D	Seq	No: 1133	4679	Prep Date: 12/2	4/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	s U	22	30								
LCS	Sample ID: LCS-251676	251676			Ui	nits: mg/L	-	Analysi	is Date:	12/26/2024	05:33 PN
Client ID:		Run ID: TDS	6_241226	D	Seq	No: 1133	4678	Prep Date: 12/2	4/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	s 510	22	30	495	0	103	85-109	0			
DUP	Sample ID: 24120564-01	A DUP			U	nits: mg/L	-	Analysi	is Date:	12/26/2024	05:33 PN
Client ID:		Run ID: TDS	6_241226	D	Seq	No: 1133	4673	Prep Date: 12/2	4/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	s 710	37	50	0	0	0	0-0	700	1.4	2 10	
DUP	Sample ID: 24120564-02	A DUP			Ui	nits: mg/L	-	Analysi	is Date:	12/26/2024	05:33 PN
Client ID:		Run ID: TDS	6_241226	D	Seq	No: 1133	4675	Prep Date: 12/2	4/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	663.3	37	50	0	0	0	0-0	646.7	2.5	4 10	

Client:	Diversified Gas & Oil Corporation
Work Order:	24120491
Project:	UIC Water Well

Batch ID: 251711	Instrument ID TDS			Method:	A2540 C-15						
MBLK	Sample ID: MBLK-25171	1-251711			U	nits: mg/L	-	Analysi	s Date:	12/30/2024	05:09 PN
Client ID:		Run ID: TDS	_241230	A	Seq	No: 1134	1610	Prep Date: 12/2	6/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls U	22	30								
LCS	Sample ID: LCS-251711-	251711			U	nits: mg/L	-	Analysi	s Date:	12/30/2024	05:09 PN
Client ID:		Run ID: TDS	_241230	A	Seq	No: 1134	1609	Prep Date: 12/2	6/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls 496	22	30	495	0	100	85-109	0			
DUP	Sample ID: 24120551-03	A DUP			Ui	nits: mg/L	-	Analysi	s Date:	12/30/2024	05:09 PN
Client ID:		Run ID: TDS	_241230	A	Seq	No: 1134	1589	Prep Date: 12/2	6/2024	DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solid	ls 1167	74	100	0	0	0	0-0	1173	0.56	9 10	
DUP	Sample ID: 24120564-04	A DUP			Ui	nits: mg/L	-	Analysi	s Date:	12/30/2024	05:09 PN
Client ID:		Run ID: TDS	_241230	A	Seq	No: 1134	1601	Prep Date: 12/2	6/2024	DF: 1	
	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Analyte											

Batch ID: R416436 Instrument ID WETCHEM Method: A5540C-11

MBLK	Sample ID: N	IB-R416436	-R416436				Ur	nits: mg N	/IBAS/L	Analys	is Date:	12/20/2024	02:13 PN
Client ID:			Run ID: WE	ТСНЕМ_	_241220D		Seq	No: 1132	5595	Prep Date:		DF: 1	
Analyte		Result	MDL		SPK Val	SPK Va		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Anionic Surfactants	as MBAS	U	0.12	0.40									
LCS	Sample ID: L	.CS-R41643	6-R416436				Ur	nits: mg N	/IBAS/L	Analys	is Date:	12/20/2024	02:13 PN
Client ID:			Run ID: WE	ТСНЕМ_	_241220D		Seq	No: 1132	5596	Prep Date:		DF: 1	
Analyte		Result	MDL	PQL	SPK Val	SPK Va		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Anionic Surfactants	as MBAS	0.4	0.12	0.40	0.5		0	80	75-125	0			
DUP	Sample ID: 2	4120491-01	A DUP				Ur	nits: mg N	/IBAS/L	Analys	is Date:	12/20/2024	02:13 PN
Client ID: C.Pritt 2 (Pond) Grab		Run ID: WE	ТСНЕМ_	_241220D		Seq	No: 1132	5598	Prep Date:		DF: 1	
Analyte		Result	MDL	PQL	SPK Val	SPK Va		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Anionic Surfactants	as MBAS	U	0.12	0.40	0		0	0	0-0	0		0 25	
The following samp	oles were anal	yzed in this	batch:	-	491-01A 491-04A	2	11204	91-02A	24	120491-03A			

Client:	Diversified Gas & Oil Corporation
Work Order:	24120491
Project:	UIC Water Well

Batch ID: R416759 Instrument ID IC5

Batch ID: R416759	Instrument ID IC5		N	lethod:	E300.	0							
MBLK	Sample ID: MBLK-R4167	/59				Un	its: mg/l	_		Analysi	is Date: 12	2/20/2024	08:18 PN
Client ID:		Run ID: IC5	_241220A			Seq	No: 1133	9912	Prep Da	e:		DF: 1	
					SPK	Ref		Control	RP	D Ref		RPD	
Analyte	Result	MDL	PQL S	SPK Val	Va	lue	%REC	Limit	V	alue	%RPD	Limit	Qual
Bromide	U	0.032	0.20										
Chloride	U	0.31	1.0										
Sulfate	U	0.19	1.0										
MBLK	Sample ID: MBLK-R4167	/59				Un	its: mg/l	-		Analysi	is Date: 12	2/20/2024	10:27 PN
Client ID:		Run ID: IC5	_241220A			Seq	No: 113 4	0604	Prep Da	e:		DF: 1	
					SPK	Ref		Control	RP	D Ref		RPD	
Analyte	Result	MDL	PQL S	SPK Val		lue	%REC			alue	%RPD	Limit	Qual
Bromide	U	0.032	0.20										
Chloride	U	0.31	1.0										
Sulfate	U	0.19	1.0										
LCS	Sample ID: MLCCV-A-R4	16759				Un	its: mg/l	_		Analysi	is Date: 12	2/20/2024	08:09 PN
Client ID:		Run ID: IC5	241220A			Seq	No: 1133	9913	Prep Da	e:		DF: 1	
A seal da	Devit					Ref		Control Limit	RP	D Ref alue	0/ DDD	RPD Limit	Qual
Analyte Bromide	Result	MDL		SPK Val	ve		%REC				%RPD		Qual
Chloride	2.01 9.727	0.032 0.31	0.20 1.0	2 10		0 0	100 97.3	90-110 90-110		0 0			
Sulfate	10.01	0.31	1.0	10		0	100	90-110		0			
LCS	Sample ID: LCS-R41675	•				Lin	iits: mg/l			Analyci	is Date: 12	012012024	10.19 DN
-	Sample ID. LC3-R41073		0440004				-						10.10 PW
Client ID:		Run ID: IC5	_241220A			Seq	No: 113 4	0605	Prep Da	e.		DF: 1	
Analyte	Result	MDL	PQL S	SPK Val		Ref lue	%REC	Control Limit		D Ref alue	%RPD	RPD Limit	Qual
Bromide	2.01	0.032	0.20	2		0	100	90-110		0			
Chloride	9.727	0.31	1.0	10		0	97.3	90-110		0			
Sulfate	10.01	0.19	1.0	10		0	100	90-110		0			
MS	Sample ID: 24120401-03	BMS				Un	its: mg/l	-		Analysi	is Date: 12	2/20/2024	08:35 PN
Client ID:		Run ID: IC5	_241220A			Seq	No: 1133	9920	Prep Da	e:		DF: 40)
						Ref		Control		D Ref		RPD Limit	
Analyte	Result	MDL		SPK Val		lue	%REC		V	alue	%RPD	Limit	Qual
Chloride	632.3	12	40	400		261.5	92.7	90-110		0			
MSD	Sample ID: 24120401-03	B MSD				Un	its: mg/l	-		Analysi	is Date: 12	2/20/2024	08:43 PN
Client ID:		Run ID: IC5	_241220A			Seq	No: 1133	9921	Prep Da	e:		DF: 40)
Analuta	Descrit					Ref	0/ DE 0	Control Limit		D Ref alue	0/ 000	RPD Limit	0
Analyte Chloride	Result	MDL		SPK Val			%REC		•		%RPD		Qual
	631.4 bles were analyzed in this	12 batch:	40 2412049 2412049			261.5 41204	92.5 91-02A	90-110 24	120491-0	632.3 3A	0.146	10	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: R416821C Instrument ID IC3

MBLK	Sample ID: MBLK-C-R41	6821C		U	nits: mg/L		Analysis	B Date: 1	12/31/2024 01:07		
Client ID:		Run ID: IC3_	241230A	Sec	No: 113425	17 F	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL SPK Val	SPK Ref Value		ontrol _imit	RPD Ref Value	%RPD	RPD Limit	Qual	
Bromide	U	0.032	0.20								
Chloride	U	0.31	1.0								
Sulfate	U	0.19	1.0								

Method: E300.0

LCS	Sample ID: LCS-C-R416	821C			Ur	nits: mg/L	-	Ana	alysis Date:	12/31/2024	12:57 A
Client ID:		Run ID: IC3_	241230	Α	Seq	No: 1134	2516	Prep Date:		DF: 1	
Analyte	Result	MDL	POI	SPK Val	SPK Ref Value	%REC	Control Limit	RPD R Value		RPD Limit	Qual
Bromide	2.001	0.032	0.20	2	0	100	90-110		0	D	Quai
Chloride	9.838	0.31	1.0	10	0	98.4	90-110		0		
Sulfate	10.68	0.19	1.0	10	0	107	90-110		0		

MS	Sample ID: 24120463-01	CMS			Ur	nits: mg/L	-	Ana	Analysis Date: 12/31/20			
Client ID:		Run ID: IC3_	241230	A	Seq	No: 1134	2520	Prep Date:		DF: 4	40	
					SPK Ref		Control	RPD R		RPD		
Analyte	Result	MDL	PQL	SPK Val	Value	%REC	Limit	Value	[₽] %R	PD Limit	Qual	
Bromide	84	1.3	8.0	80	0	105	90-110		0			
Chloride	390.2	12	40	400	9.404	95.2	90-110		0			
Sulfate	494.4	7.6	40	400	74.96	105	90-110		0			

MSD	Sample ID: 24120463-010	MSD			Ur	nits: mg/l	_	Analysis	s Date: 1	12/31/2024 (01:46 A
Client ID:		Run ID: IC3	_241230	A	Seq	No: 1134	2521	Prep Date:		DF: 40	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	85.24	1.3	8.0	80	0	107	90-110	84	1.47	7 10	
Chloride	391	12	40	400	9.404	95.4	90-110	390.2	0.216	6 10	
Sulfate	495.4	7.6	40	400	74.96	105	90-110	494.4	0.206	6 10	
The following sa	amples were analyzed in this b	atch:	241204	91-01A	241204	91-02A					

		Subcontractor: ALS Environmental	 - Holland	1					DIVE		204	• •	ion			Date: COC ID:	<u>19-</u> 276	Dec-24
6		3352 128th Avenue			TEL: (616) 399-6070)			Proje	ct: UIC Water	Well					and the second sec	
					FAX: (616) 399-6185	i									Due Date:	21.	-Dec-24
(AL	S)	Holland, MI 49424			Acct #:													
		Salesperson	AL	SHN A	ccount													
	Customer I	nformation	171		Pr	oject Inform	ation				Par	ametern	vieniou	reques	IUI Ana	lysis	-	
Purchase Order				Projec	t Name	24120491		A	Tota	I Disso	ved Soli	ds (A25	40 C-15	5)				
Work Order				Projec	t Number			В	MB/	AS, as I	AS, mo	wt 348	(A5540	C-11)				
Company Name	ALS G	oup USA, Corp		Bill To	Company	ALS Group	USA, Corp	C	Meta	als by I	CP-AES	(E200.7	·)					
Send Report To	Rebecca	a Kiser		Inv Att	'n	Accounts I	Payable	D	Anic	ons by I	on Chro	matogra	phy (E3	00.0)				
Address	1740 U	nion Carbide Dr.		Addres	SS	1740 Union	Carbide Dr.	E										
								F										
City/State/Zip	So. Cha	rleston, WV 25303				So. Charles	G											
Phone	(304) 3:	56-3168		Phone		(304) 356-3	3168	н										
ax				Fax				1										
Mail Address	rebecca.	kiser@alsglobal.com		eMail	cc			J										
ALS Sample ID	Clie	nt Sample ID	Ma	trix	Collection	Date 24hr	Bottle	A		В	С	D	E	F	G	н	1	J
4120491-01A	C.Pritt 2 (Pond) Grab	Wa	ater	19/Dec/20	24 10:02	(1) 500PNeat	X		х		X						
4120491-01B	C.Pritt 2 (Pond) Grab	Wa	ater	19/Dec/20	24 10:02	(1) 125PHNO3				Х							
4120491-02A	Cavender	1 Grab	Wa	ater	19/Dec/2	024 9:04	(1) 500PNeat	X	:	х		Х						
4120491-02B	Cavender	1 Grab	Wa	ater	19/Dec/2	024 9:04	(1) 125PHNO3				х							
24120491-03A	Cavender well) Grat	2 (duglopan	Wa	ater	19/Dec/2	024 9:11	(1) 500PNeat	X		Х		Х						
4120491-03B	Cavender well) Grat	2 (duglopan	Wa	ater	19/Dec/2	024 9:11	(1) 125PHNO3				Х							
4120491-04A	Cavender	3 (pond)	Wa	ater	19/Dec/2	024 9:18	(1) 500PNeat	X		Х		X						
4120491-04B	Cavender	3 (pond)	Wa	ater	19/Dec/2	024 9:18	(1) 125PHNO3				х							

Comments:	malan I D				
WV Samples Sa	ampier: J.B.				
linquished by:	Date/Time	Received by	Date/Time	Cooler IDs	Report/QC Level
Michelletolmer	12.19.24 1	400 Julie that	12-20-29 10.00	46-0C	Std
elinquished by:	Date/Time	Received by:	Date/Time	IR6	
				2/171	
				PH 39	

ALS Group, USA Holland, Michigan

Sample Receipt Checklist

Client Name: DIVERSIFIED		Date/Time I	Received: <u>19-Dec-24</u>	11:51
Work Order: 24120491		Received by	y: <u>CMK</u>	
Checklist completed by Caleb Koetje	20-Dec-24	Reviewed by:	Briana Lothes	23-Dec-24
eSignature Matrices: <u>Water</u> Carrier name: <u>Courier</u>	Date		eSignature	Date
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗸	No	Not Present	
Custody seals intact on sample bottles?	Yes	No	Not Present	
Chain of custody present?	Yes 🗸	No		
Chain of custody signed when relinquished and received?	Yes 🗸	No		
Chain of custody agrees with sample labels?	Yes 🗸	No		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🗸	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗸	No 🗌		
All samples received within holding time?	Yes 🗸	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Sample(s) received on ice?	Yes 🗸	No 🗌		
Temperature(s)/Thermometer(s):	<u><6.0c</u>		IR6	
Cooler(s)/Kit(s):				
Date/Time sample(s) sent to storage:		4 12:02:35 PM	No VOA viele svbreitted	
Water - VOA vials have zero headspace?	Yes	No 🗌	No VOA vials submitted	
Water - pH acceptable upon receipt?	Yes 🗸	No	N/A	
pH adjusted?	Yes	No 🗹	N/A	
pH adjusted by:	_			
Login Notes: <u>pH Check <2</u>				

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
CorrectiveAction:		

APPENDIX F

4703904892

Area Permit Wells

	P			100000000000000000000000000000000000000
API #	Well Type (Injection, Production, Observation, Monitoring)	Well Status (Active, Abandoned, Shut-in, Plugged)	Northing (UTM NAD 83 Meters)	Easting (UTM NAD 83 Meters)
N/A				
Not for area permit wells				

Make as many copies as necessary and include page numbers as appropriate.

dep

APPENDIX G

Wells Serviced by Injection Wells

API #	Operator	Producing Formation
	accorry and include nacco numb	

Make as many copies as necessary and include page numbers as appropriate.





Section 8 – Geological Data

UIC 2D0394892

SECTION 8-Geological data on the Injection and Confining Zone:

Well Name: Ivanna Tr3 #2

API: 47-039-04892

UIC: UIC2D0394892

The subject UIC well is located in Kanawha County, West Virginia in the northeast corner of the Blue Creek quadrangle (Figure 1). The Ivanna Tr3 #2 and 3 other active UIC wells have been used to dispose water into the Injun Sandstone and Lower Maxton Sandstone since the mid 1990's.

DESCRIPTION OF INJECTION ZONES

INJUN SANDSTONE

Formation Description

The Injun Sandstone is an injection zone for the subject well. This formation sits beneath the Greenbrier Limestone "Big Lime" at the top of the Lower Mississippian section. This predominately fine-grained, quartz rich sandstone exceeds 50' in thickness in the area of interest and is 38' in the subject well (Figure 2). Grains are generally subangular to subrounded, moderate to well sorted, and fine to very fine sand. Primary porosity in the subject well and adjacent Blue Creek oil field can exceed 20% in the Injun Sandstone, and the subject well has 26' of Injun Sandstone with porosity over 12% (Figure 3). Like gross thickness, primary porosity in the area is greatest in the adjacent Blue Creek oil field that lies to the east of the subject well but decreases significantly outside of the field.

Stratigraphic Description

In northwestern Kanawha County, the Injun Sandstone is overlain unconformably by the Greenbrier Limestone and sits above the Pocono Shale.

Structural Mapping

Structural mapping on the Injun Sandstone top indicates that the subject well is located updip from a local syncline (Figure 4). The adjacent structural low forms the outline of the Blue Creek oil field, and as mapped, this local syncline also has the thickest Injun Sandstone in the area (Figure 2).

Faulting

Structure maps (Figure 4) on the Injun Sandstone top do not have any indication of faulting in this injection interval throughout the area of interest.

LOWER SALT SAND

Formation Description

As stated above, the Lower Salt Sand is an injection zone along with the Injun Sandstone in the subject well. The Lower Salt Sand is a member of the Pottsville Group of the Pennsylvanian System and the quartz arenite ranges in thickness from 350-500' in northwestern Kanawha Co. (Figure 5). Porosity mapping of the Lower Salt Sand (Figure 6) indicates a thick north-south trend to the west of the Blue Creek oil field. The subject well is mapped within this trend and has over 25' of sand with porosity over 12%.

Stratigraphic Description

In northwestern Kanawha County, the Lower Salt Sand lies below an unnamed Shale (named the Lower Salt Sand Shale for this report) and unconformably above the Upper Mississippian Mauch Chunk Group.

Structural Mapping

Structural mapping on the Lower Salt Sand base indicates that the subject well is located updip from a local syncline (Figure 7).

Faulting

Structure maps (Figure 7) on the Lower Salt Sand do not have any indication of faulting in this injection zone.

DESCRIPTION OF CONFINING ZONES

GREENBRIER LIMESTONE (BIG LIME)

Confining Layer for: Injun Sandstone

Formation Description

The Big Lime is 130-170' (Figure 8) thick throughout the area of interest and is predominately composed of dense limestone. Porous zones are uncommon, isolated, and <5' when observed. This limestone has been mapped throughout the area of interest and there is no evidence of faulting. Low porosity, high density, and massive thickness of the Big Lime in northwestern Kanawha County make it an excellent confining layer.

Primary Lithology: Limestone

Log Description:

This limestone has a very low gamma ray signature (20 API), low density ~2.7 g/cc, and porosity in most wells is below 2%. In the subject well, the Big Lime has a gross thickness of 150'.

LOWER SALT SAND SHALE

Confining Layer for: Lower Salt Sand

Formation Description

In the area of interest, the Lower Salt Sand Shale gross thickness ranges from 40-100' (Figure 9) thick and the average thickness is over 60'. Porous zones are uncommon, but a thin coal seam has been observed in some wells. This shale has been mapped throughout the area of interest and there is no evidence of faulting. The thickness, lack of faults, and dense nature of this shale makes this unit an excellent confining layer.

Primary Rock Type: Shale

Secondary Rock Type: Coal and Siltstone

Log Description:

This shale generally has a gamma ray value over 100 API units but lower than 200. Bulk density values range from 2.60-269 g/cc and porosity values average 3% or less for the entire interval. In the subject well, the Lower Salt Sand Shale has a gross thickness of 75'.

EARTHQUAKES AND INDUCED SEISMICITY

From 1824 to 2016 West Virginia has experienced nearly 100 earthquakes within state boundaries (Figure 10). These earthquakes have magnitudes ranging from .3 to 4.7 using both historical and instrumental measurements. The closest recorded earthquakes to the subject well are in Jackson and Kanawha counties and are 10 and 20 miles from the subject well respectively. As stated above, the subject well has been used as an injection well since the mid 1990's, and the closest recorded seismic event is over 10 miles away. Furthermore, no evidence of faulting in the area at the injection level exists at Blue Creek.

The subject well has two decades of injection history and there have not been any pressure issues, containment problems, or induced seismicity in the area, and the subject well remains an excellent candidate for fluid injection.

WATER MIGRATION MODEL

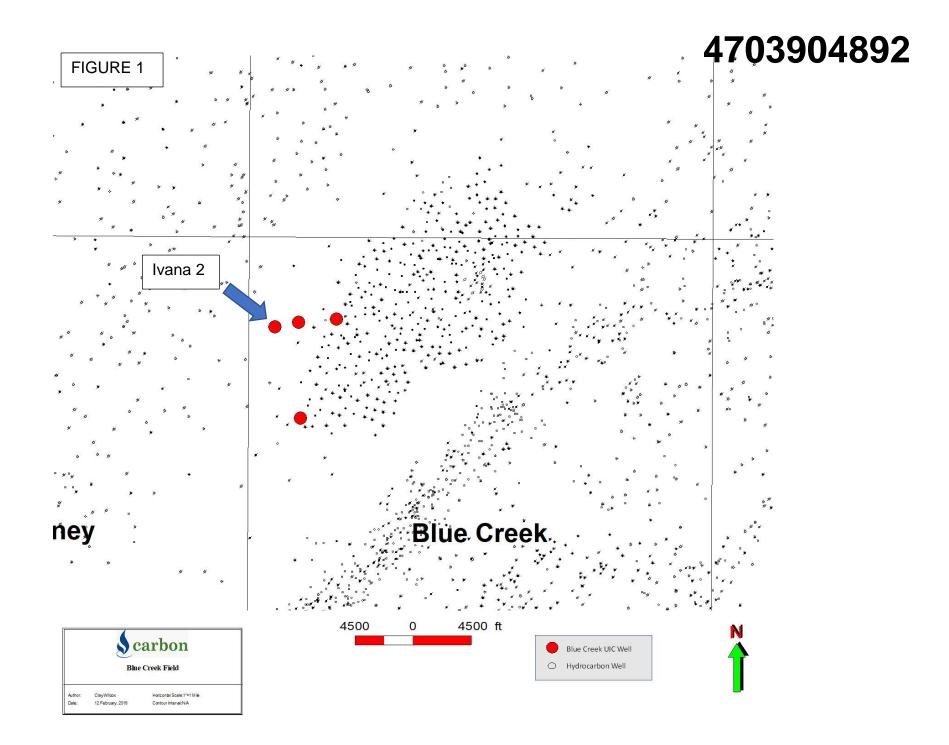
A schematic depicting the likely migration path for injected fluids is included in this report (Figure 11). Although the likely migration path for each injection formation has been drawn on the one model, the discussion is broken down into two separate paragraphs.

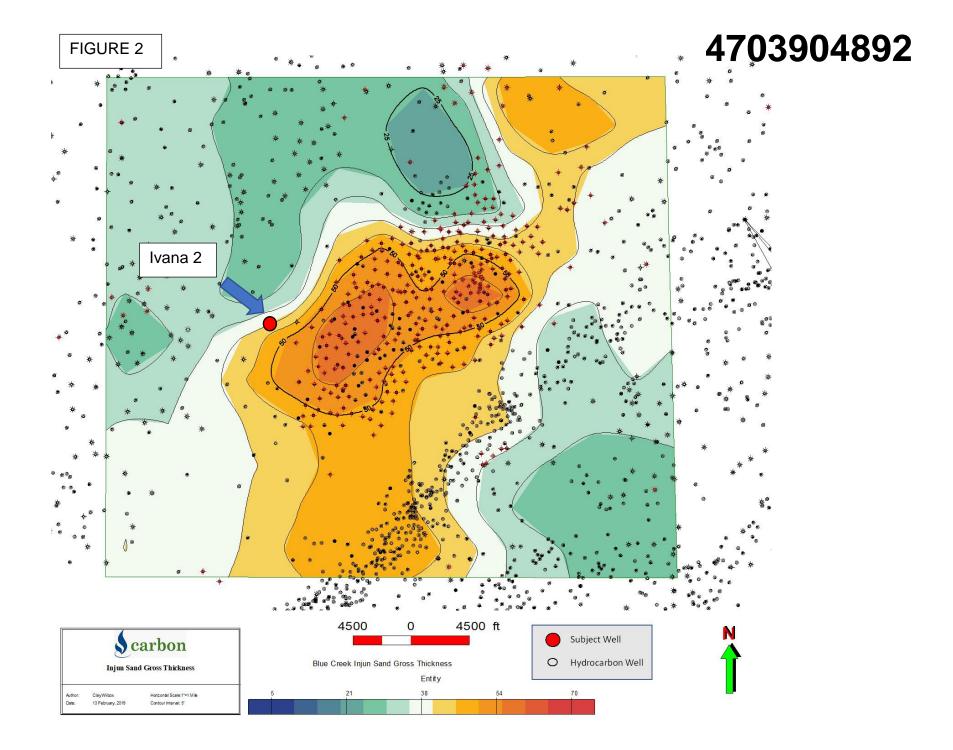
INJUN SAND

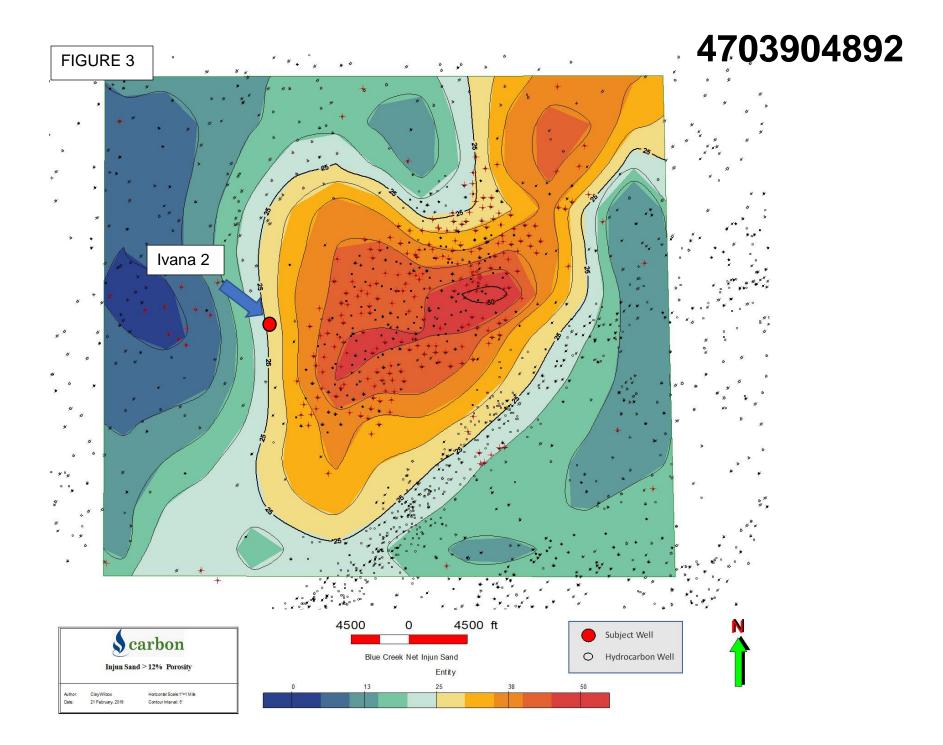
As alluded to earlier, structure maps on the Injun Sand (Figure 4) indicate that the subject well is directly adjacent to and west of a local syncline. Furthermore, gross thickness (Figure 2) and porosity mapping (Figure 3) are greatest within this syncline. Pumped fluids would preferentially migrate downdip into the Blue Creek oil field where the Injun Sand has much better porosity than the surrounding areas.

LOWER SALT SAND

Fluids will only be injected into the basal 150' of the formation since porosity is more consistent and better developed than the upper portions of the sand. Porosity maps (Figure 6) show that the subject well lies in a local thick and has over 25' of sand with more than 12% porosity. Unlike the Injun Sand, fluids injected into the Lower Salt Sand are not expected to preferentially migrate in one direction.







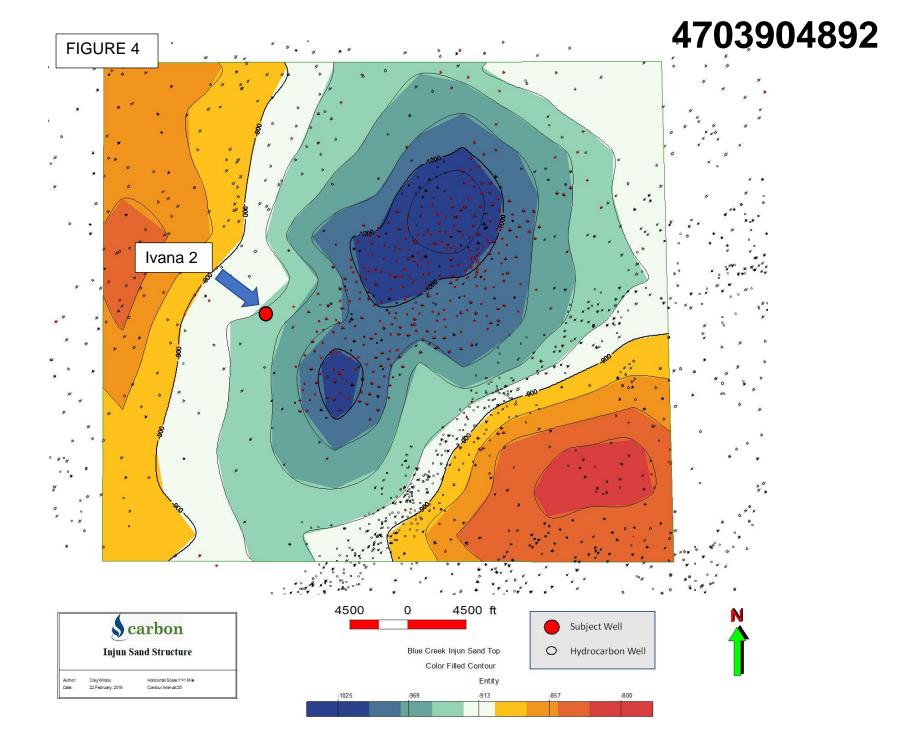
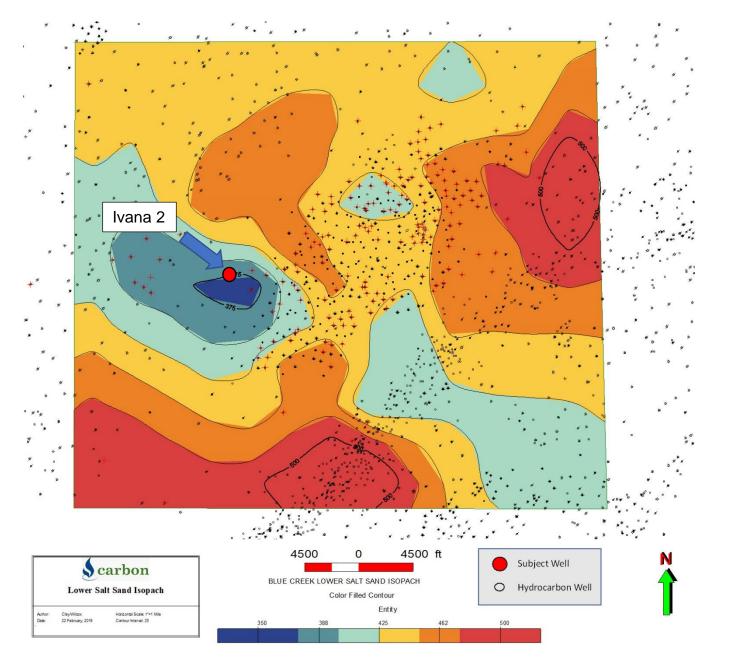
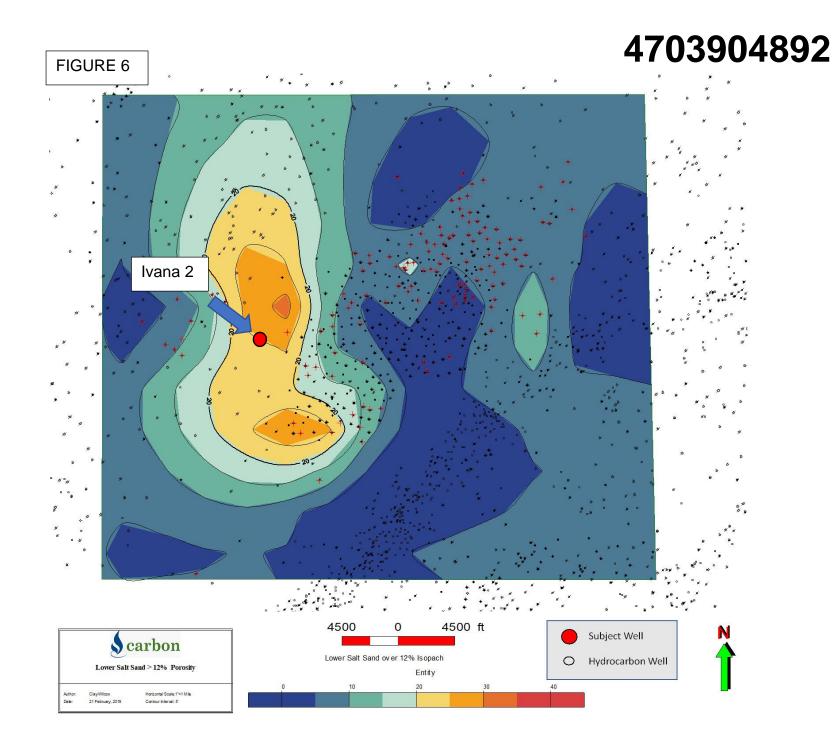
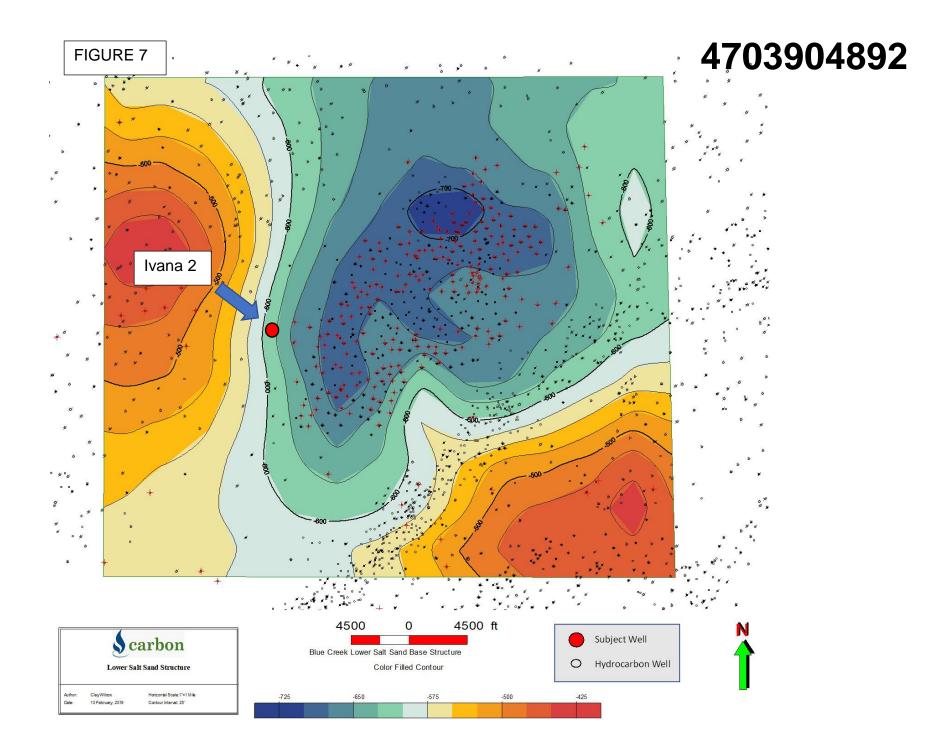


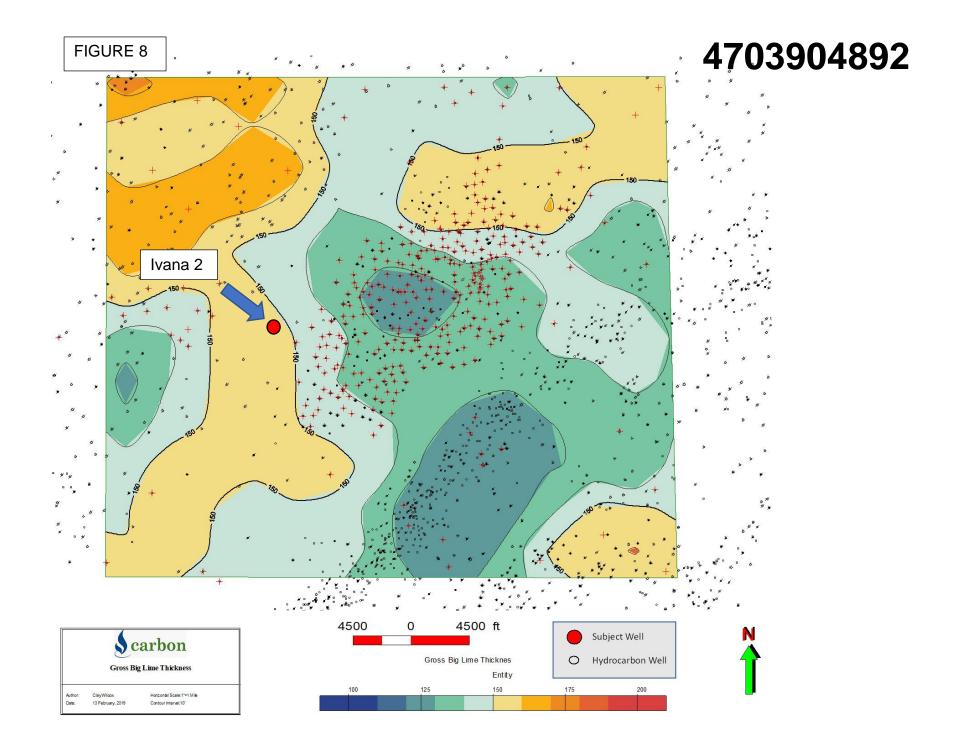
FIGURE 5

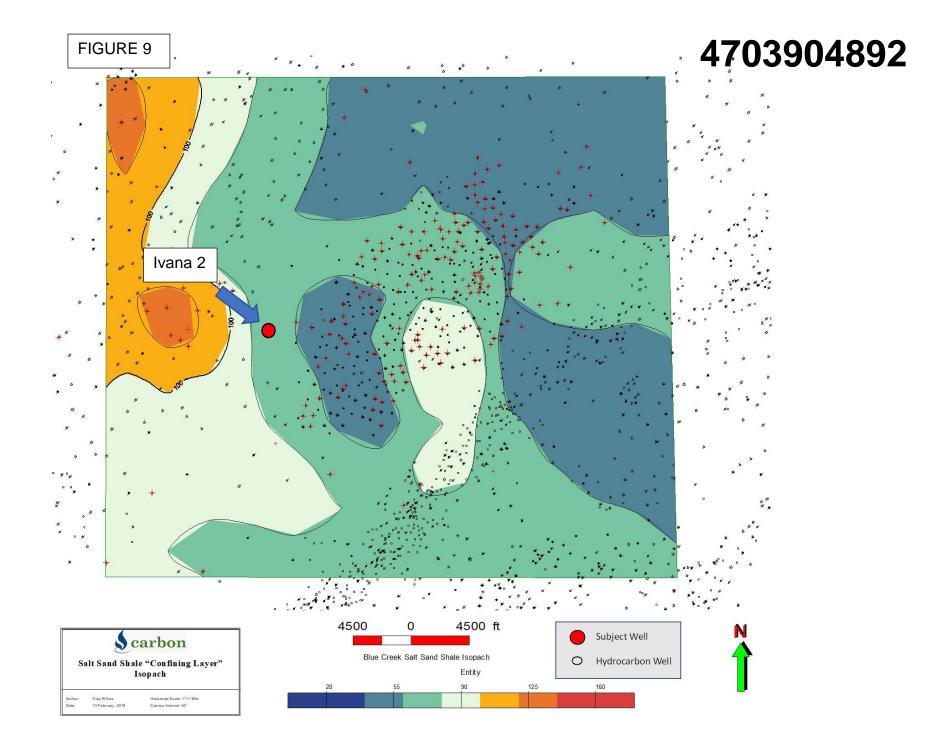
4703904892

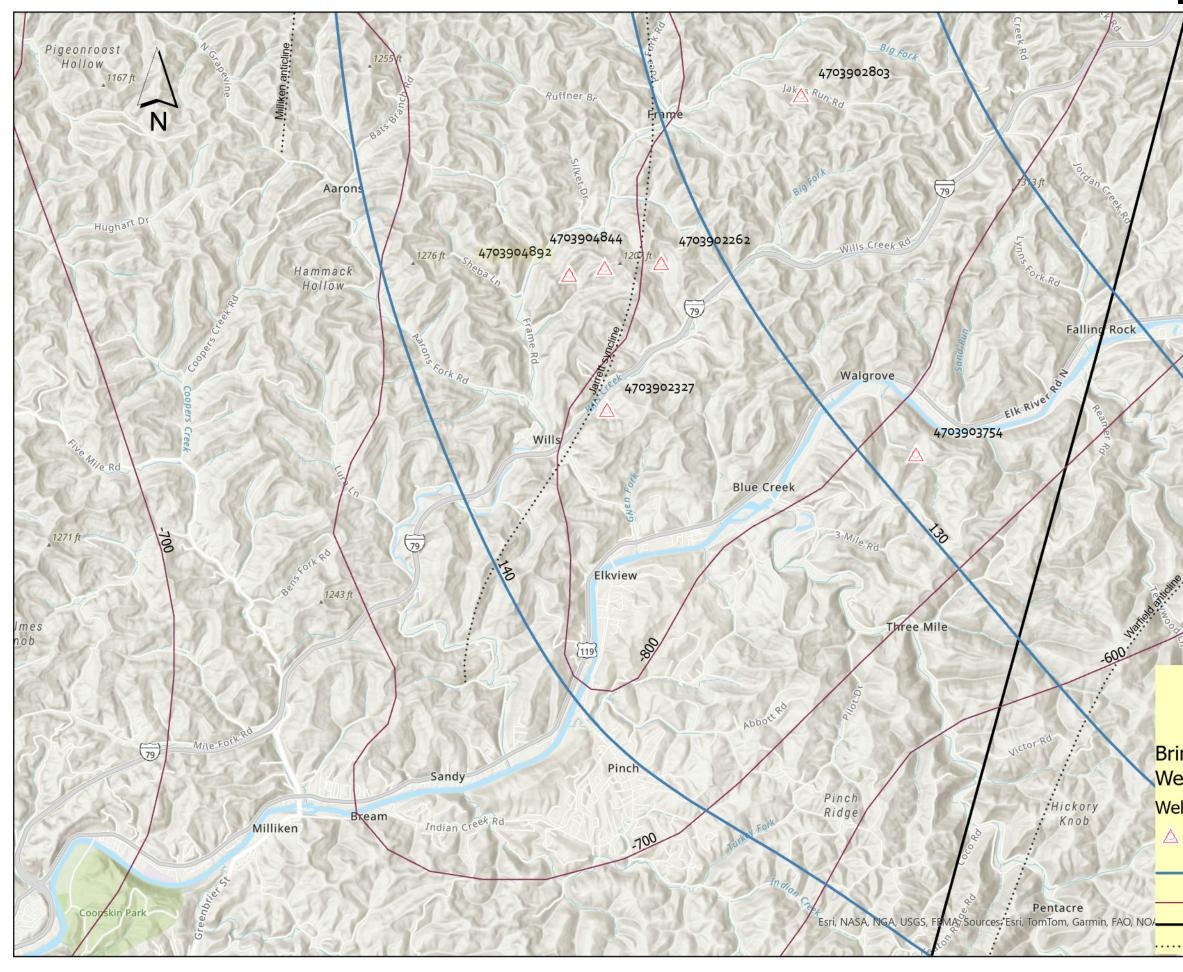












Scale: 1:60,000

4703904892 Reverick Ridde 119 Precambrian Fault elendenin 4 Reamer Dry Big Poplar Kanawha County Brine **Disposal Wells** Brine Disposal Wells WellUse A Brine Disposal Greenbrier Thickness (ft) Greenbrier Lmst Elev PreCambrian_Faults ······ Surface Structure

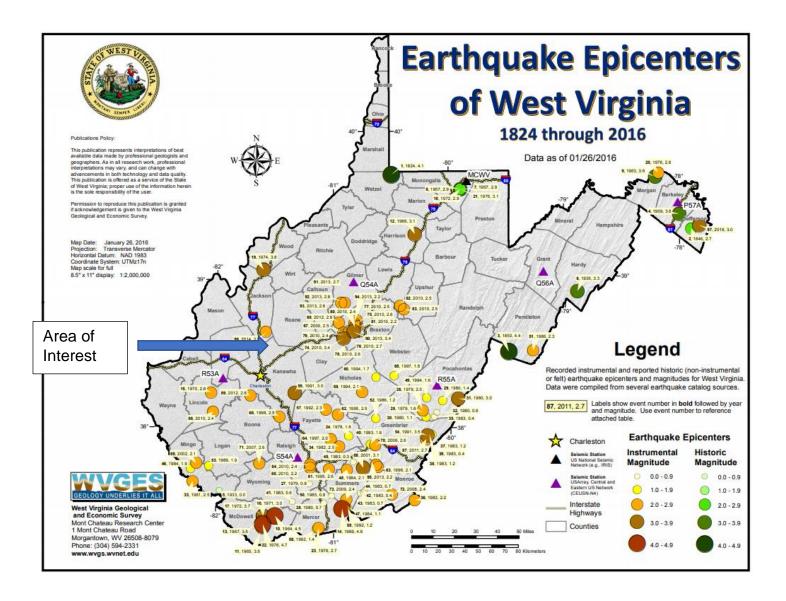
5,000

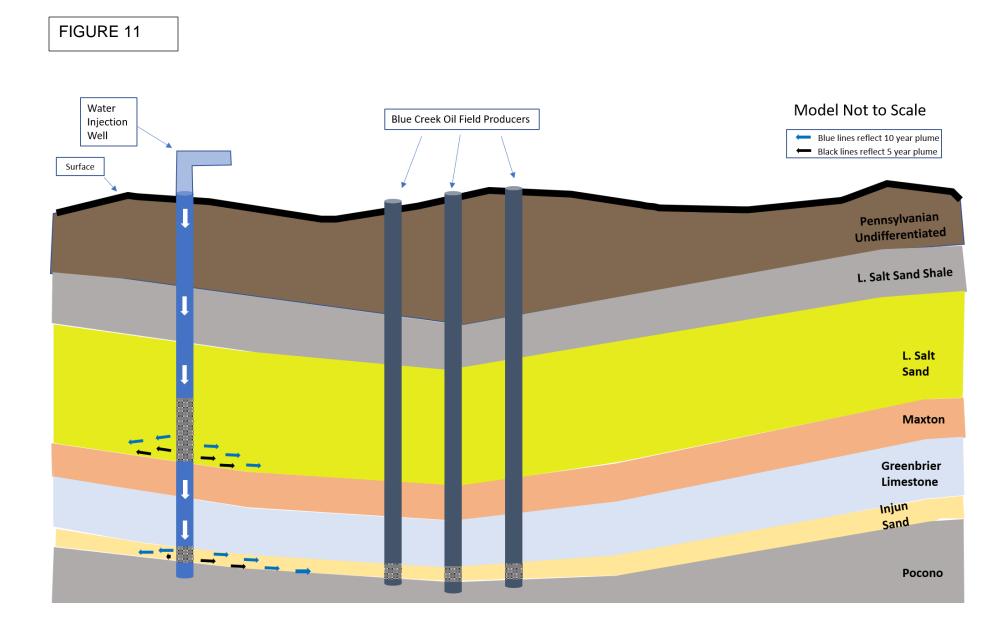
0

5,000

10,000 ____ Feet

FIGURE 10





Diversified Production, LLC UIC 2D03904892 Ivana TR3 No.2

	Injection (bbl)	Thickness (ft)
Salt Sand:	84,451 (90%)	355
Big Injun Sandstone:	9,383 (10%)	40
Total:	93,834	395

Estimation of Fluid Migration - Salt Sand

The following is an estimation of the injection fluid migration over time at the Ivana TR3 No.1 (API 4703904892) using the volumetric method. Parameters used in the calculation are cumulative volume, porosity percent, reservoir height, and saturation displacement percent. Below is the formula used for the calculation and the parameter inputs.

 $R = \sqrt{Q \times V / 3.14 \times P \times H \times Sd}$

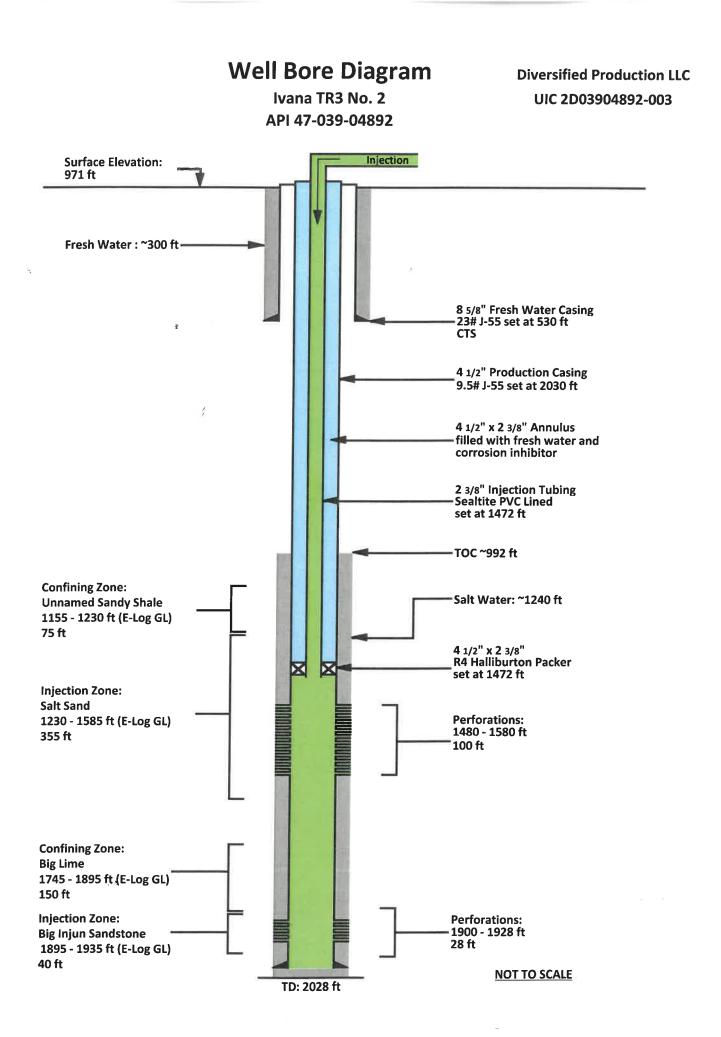
		Input	:	
Q =	Cumulative injection volume (bbls)	(84,451 b	bl) (as of 12/30/202	24)
V =	Volume of one barrel of liquid (cf/bbl)	(5.615 cf/	bbl)	
P =	Average porosity (%)	(0.25)	25%	
H =	Reservoir height (ft)	(355 ft)	Salt Sand	
Sd =	Saturation displacement (%)	(0.20)	20%	
ş. 				
R =	Estimated radial distance from wellbore	(92 ft)		

Estimation of Fluid Migration - Big Injun

The following is an estimation of the injection fluid migration over time at the Ivana TR3 No.2 (API 4703904892) using the volumetric method. Parameters used in the calculation are cumulative volume, porosity percent, reservoir height, and saturation displacement percent. Below is the formula used for the calculation and the parameter inputs.

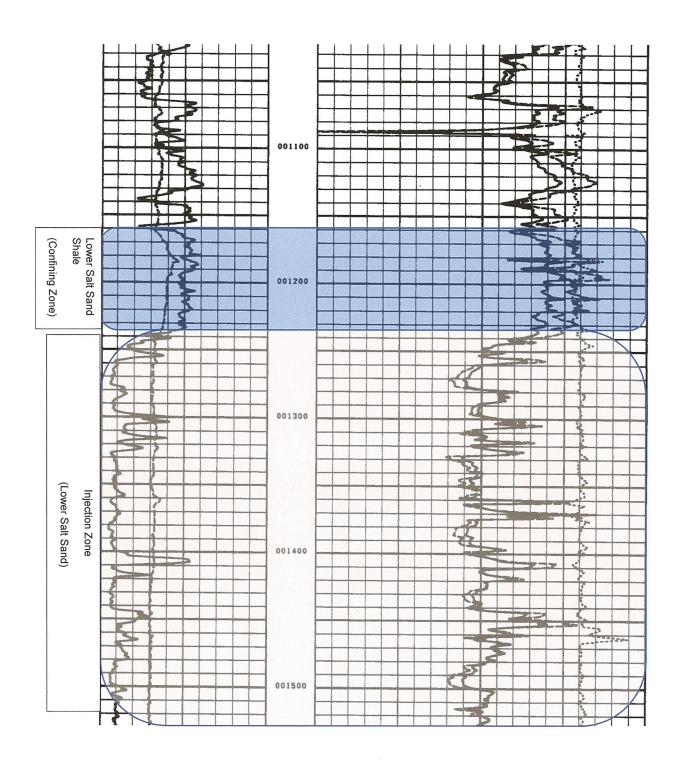
$$R = \bigvee Q \times V / 3.14 \times P \times H \times Sd$$

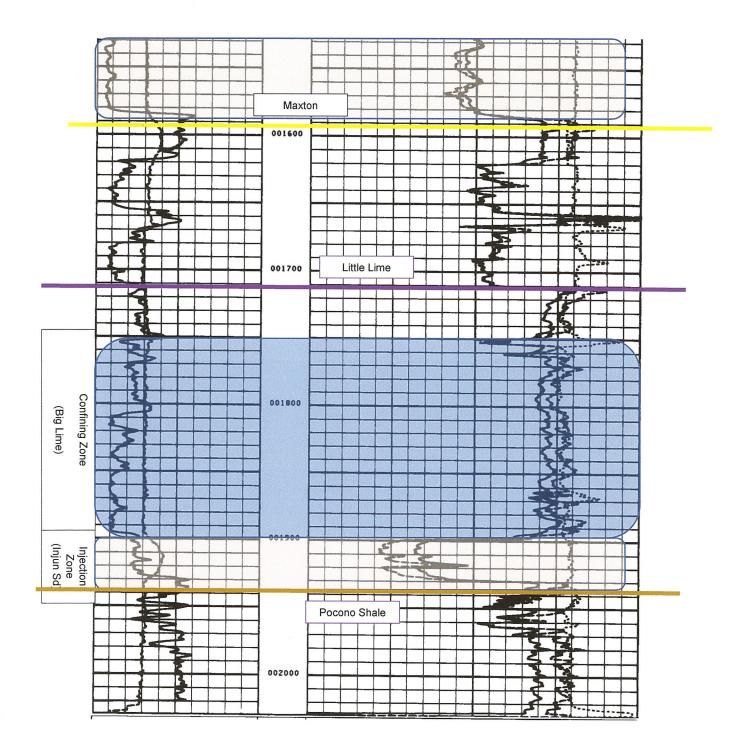
		Input	
Q =	Cumulative injection volume (bbls)	(9,383 bbl)	(as of 12/30/2024)
V =	Volume of one barrel of liquid (cf/bbl)	(5.615 cf/bl	ol)
P =	Average porosity (%)	(0.26)	26%
H =	Reservoir height (ft)	(40 ft)	Big Injun Sandstone
Sd =	Saturation displacement (%)	(0.20)	20%
R =	Estimated radial distance from wellbore	(90 ft)	



Ivana TR3-2 (Formation Density)

HITSCORUSU SI	SUPPORT BY	PAULO MA ANA I				BOURCE OF RINF & RINC	ANC & MENS.	RHF & HEAS. TENF.	RA & MANG. TENP.	BOURCE OF SAMPLE	PH NO FLUID LOSS	DENSITY & VISCOSITY		Po			O HA DRILLER				Control OR ILLER		DATE		PERMANENT						13861	FILING NO.			
	THE LUCY						. TENP.	. TERP.	TERP.	SWALT	10 1088	VISCOSITY		IN HOLE		JOE R		DOORD INT.	M LOGORO INT.	×7				A CLASSE STORES	PERMANNY DATUM GROUND LOG MEASURED FROM XB		OGATION NATERSH	COUNTY	FIELD	MELL	1 Million	· · · ·	3		Ď
N. CUMAN					B/A	N/B	B/A	R/A	N/B	B/N	B/A	B/N		H20	7 7/8	830	820	20	2028	2028	2025	08%	8-23-83.		DLEVEL S		SUCHTING TERMIN . 4/1009-9900 BUADI BLUE CREEK 7.8 LATERSHEDI FUDOR BRABCH	1	ELK DISTRICT	IVANA CO. TRACT #			MERGED C	3250 RO DUNBAR,	YOUNG WIRELINE
																									ABOVE PERMANET DATUM		КСН -		ICT	ω			COMPOS I TE	2250 ROXALAMA RD. DUMBAR, NY. 25054	
Ī	Ī	I	Ī	Î	Î					I	Ī	Ī	Ī	l									Γ					ST		MELL #					SERV I CES
																									078 878	ELEVATIONS	01 MER 88874 (CE	STATE WV		N					
																									1	035		<							•
						1		DL 20		0.	.			R401 82			 60			•••••							DOL TYPE CDL 2	5C	NLE 3.0		U\$9 1	TE /		15199	
29		121		.7	1	11 J		61	TY	n	AT	R ł	XI	RAI	1	r H6	N	LI	5.																
					_				81	AY TS					T													-13			COR	RECI	7109		
	 												; • • !	201 601						2	.0				2	<u>ا</u> 2		040 195 / 2,5		Y		2.	28		3.
184																											-								

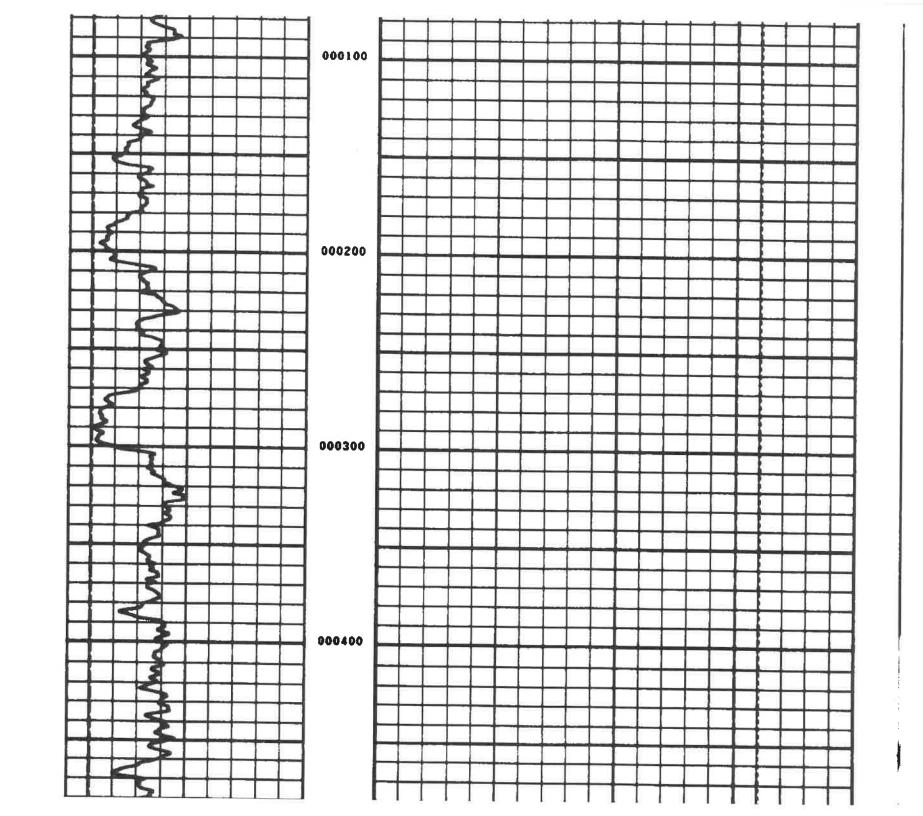


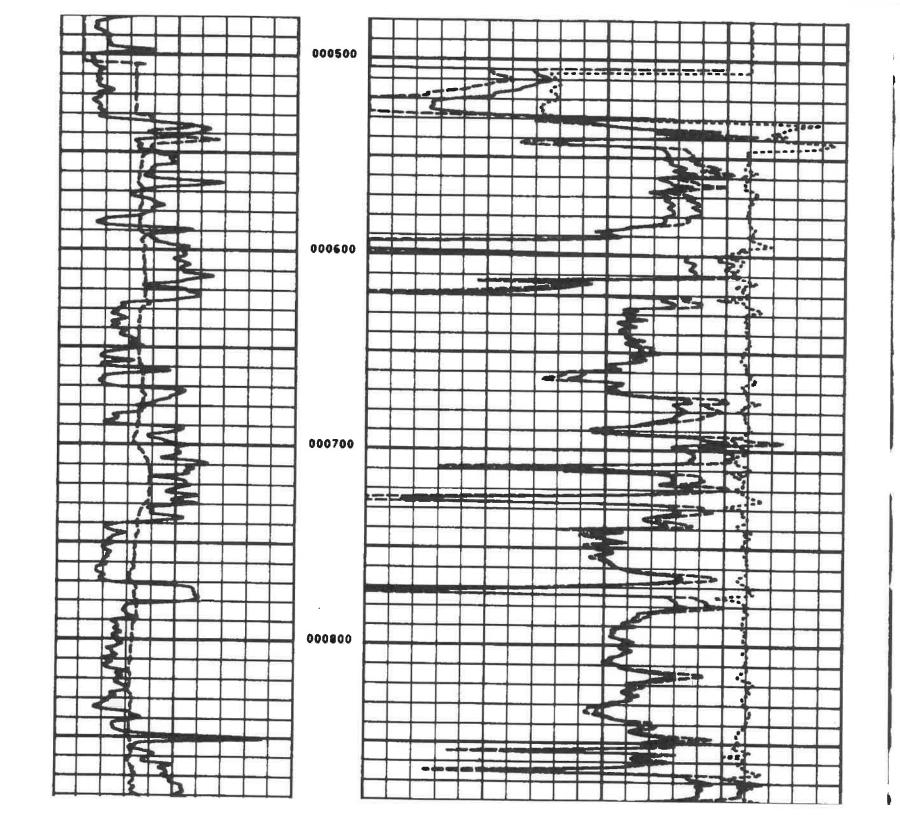


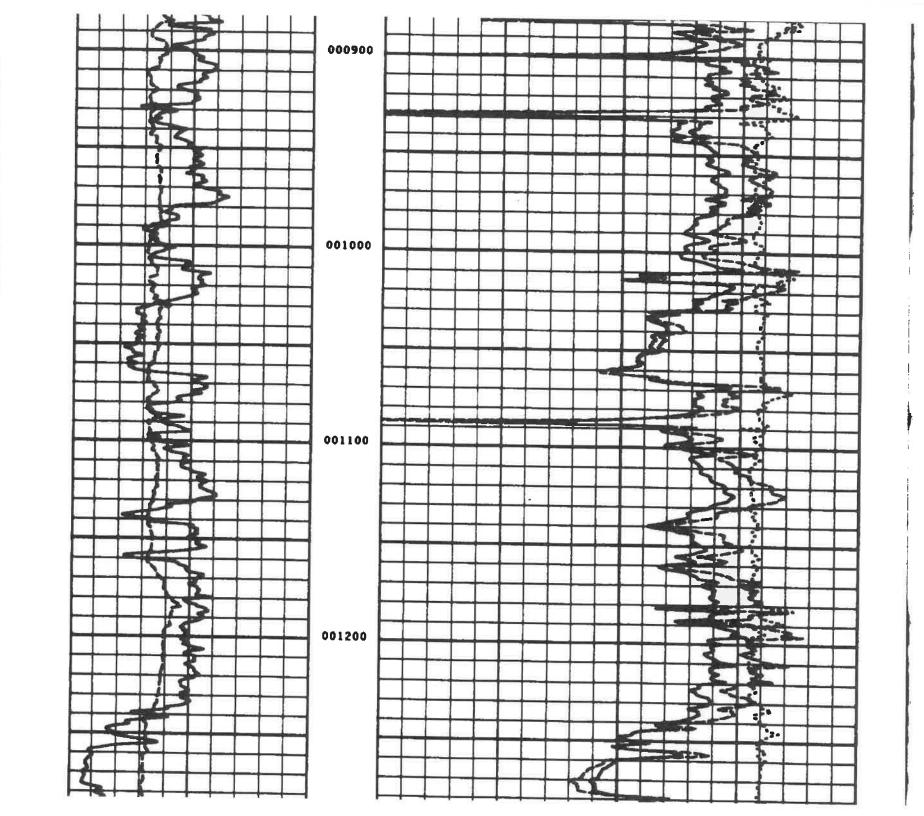
		ING WIRE	
			DXALAN
	r	ERGED (COMP
FILING NG. 12684		QURKER S	TATE
	WELL	IVANA CO	. TRF
	FIELD	ELK DIST	RICT
	COUNTY	KANAWHA	
		E PERMIT : 4 BLUE CREEK 7 . HED: FUDGE BR	
	SEC	THP	
	DATUM GRO ED FROM KE EASURED FR	/8 FT.	LEV 9 Above
LDG HEASUR Drilling H Date	ED FROM KE	/8 FT. DM K8 6-23-93.	
LDG HEASUR Drilling H Date Run BQ.	ED FROM KB Ensured Fr	, 6 FT. DM KB 6-23-93. DWC	with a constant
LDG HEASUR Drilling H Date RUB BO. DEPTH DRIL	ED FROM KB EASURED FR	,6 FT. 04 KB 6-23-93. 086 2026	CHINA COLORIST
LOG HEASUR Drilling H Date Run NG. DEPTH DRIL DEPTH LOGO	ED FROM KB EASURED FR	, 6 FT. DM KB 6-23-93. DWC	with a constant
LOG HEASUR Drilling H Date Run ng. Depth Dril Depth Logo	ED FROM KE EASURED FR LER ER GED INT.	, 6 FT. DM KB 6-23-93. DWC 2028 2028	with a constant
LOG MEASUR DRILLING M DATE RUS NG. DEPTH DRIL DEPTH DRIL DEPTH LOGO SOTTOM LOG TOP LOGO	ED FROM KB EASURED FR LER ER GED 187.	, 6 FT. DM KB 6-23-93. DWC 2026 2028 2028	with a constant
LOG MEASUR DRILLING M DATE RUS BG. DEPTH DRIL DEPTH LODO SOTTOM LOO TOP LOGGED CASING DRI	ED FROM KE EASURED FR LER ER BED INT. LLER	, 6 FT. DM KB 6-23-93. DWC 2026 2028 2028 2026 20	with a constant
LOG HEASUR DRILLING H DATE RUN BG. DEPTH DRIL DEPTH LOGO BOTTOM LOG FOP LOGO CASING DRI CASING LOG	LER SALER SEA SEA SEA SEA SEA SEA SEA SEA SEA SEA	, 6 FT. DM K8 6-23-93. DBK 2028 20 2028 2	with a constant
LOG MEASUR DRILLING M DATE RUS BG. DEPTH DRIL DEPTH LOGO SOTTOM LOG SOTTOM LOG CASING DRI CASING DRI CASING LOG SIT SIZE	LER SALER SEA SEA SEA SEA SEA SEA SEA SEA SEA SEA	, 6 FT. DM K8 6-23-93. DBC 2028 20 2028 2	with a constant
LOG MEASUR DRILLING M DATE RUB BG. DEPTH DRIL DEPTH DRIL DEPTH LOGO SOTTOM LOG SOTTOM LOG TOP LOGO CASING DRI CASING LOG SIT SIZE TYPE FLUID	ED FROM KB EASURED FR LER SER SED INT. LLER SER IN NOLE	, 5 FT. DM KB 6-23-93 DWC 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 2028 200 200	with a constant
LOG MEASUR DRILLING M DATE RUB BO. DEPTH DRIL DEPTH DRIL DEPTH LOGO DOTTOM LOG TOP LOGO CASING DRI CASING LOG DIT SIZE TYPE FLUIC DEBSITY G	ED FROM KE EASURED FR ER ER BED INT. INT. LLER GER IN HOLE VISCOSITY	, 5 FT. DM KB 6-23-93. DBMC 2025 205 20	with a constant
LOG MEASUR DRILLING M DATE RUS NG. DEPTH DRIL DEPTH DRIL DEPTH LODE SOTTON LODE TOP LODE TOP LODE CASING DRI CASING DRI CASING DRI CASING DRI CASING DRI CASING LODE SIT SIZE TYPE FLUID DEBSITY & PH AND FLU	ED FROM KE EASURED FR ER ER ER ER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. INT. LLER INT. INT. INT. INT. INT. INT. INT. INT.	, 5 FT. DM KB 6-23-93. DWC 2025 2028 20 2028 2	with a constant
LOG MEASUR DRILLING M DATE RUS NG. DEPTH DRIL DEPTH DRIL DEPTH LODE SOTTON LOG SOTTON LOG SOTTON LOG SOTTON LOG CASING DRI CASING DRI CASING DRI STYPE FLUID DEBSITY B PH AGO FLU SOURCE OF	ED FROM KE EASURED FR ER ER ER ER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. LLER INT. INT. LLER INT. INT. INT. INT. INT. INT. INT. INT.	, 5 FT. DM KB 6-23-93 DWC 2025 2028 2028 2028 2028 2028 2028 20 530 530 530 530 530 530 530 53	CHINA COLORIST
LOG MEASUR DRILLING M DATE RUS BG. DEPTH DRIL DEPTH LODO SOTTOM LOO SOTTOM LOO TOP LOGOGE CASING DRI CASING DRI CASING LOO SIT SIZE TYPE FLUID DERSITY O PH AND FLU SOURCE OF RM & NEAS.	ED FROM KE EASURED FR ER ER ER ER INT. LLER ESER IN HOLE VISCOSITY ID LDES SAMPLE TEMP.	, 6 FT. DM KB 6-23-93 DWC 2026 2028 2028 2028 2028 2028 20 530 530 530 530 530 530 530 53	CHINA COLORIST
LOG MEASUR DRILLING M DATE RUS BG. DEPTH DRIL DEPTH DRIL DEPTH LOGO SOTTON LOG SOTTON LOG SOTTON LOG SOTTON LOG SOTTON LOG SOTTON LOG SOTTON LOG STT SIZE TYPE FLUID DEBSITY B PH AGO FLU SOURCE OF RM & MEAG.	ED FROM KE EASURED FR LER SER JER JER JER JER JER JER JER JER JER J	, E FT. DM KB 6-23-93. DWC 2025 2028 2028 2028 20 830 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 8/A 8/A 8/A	CHINA COLORIST
LOG HEASUR DRILLING H DATE RUS BG. DEPTH DRIL DEPTH DRIL DEPTH LOG SGTTON LOG SGTTON LOG SGTTON LOG SGTTON LOG SGTTON LOG CASING DRI CASING DRI CASING DRI CASING DRI CASING LOG SIT SIZE TYPE FLUID DENSITY S PH AGO FLU SGURCE OF RN & NEAS RNF & NEAS	ED FROM KE EASURED FR LER SER SER SER SER SER SER SER SER SER S	, E FT. DM KB 6-22-93 DBC 2028 2028 2028 2028 20 530 530 7 7/8 H20 530 7 7/8 H20 530 530 7 7/8 H20 530 530 530 530 530 530 530 53	CHINA COLORIST
LOG MEASUR DRILLING M DATE RUS BG. DEPTH DRIL DEPTH DRIL DEPTH LODO SOTTOM LOO SOTTOM SOTTOM LOO SOTTOM LOO SOTTOM SOTTOM SOTTOM SOURCE OF	ED FROM KE EASURED FR LER SER JER JER JER JER JER JER JER JER JER J	, E FT. DM KB 6-22-93 DBC 2028 2028 2028 2028 2028 2028 20 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 7 7/8 H20 530 530 530 7 7/8 H20 530 530 530 530 530 530 530 53	CHINA COLORIST
LOG HEASUR DRILLING H DATE RUS BG. DEPTH DRIL DEPTH DRIL DEPTH LODO SOTTON LOG SOTTON LOG TOP LOGOCE CASING DRI CASING DRI CASING DRI CASING DRI CASING DRI CASING DRI SOURCE OF RN 2 NEAS. RNF 2 NEAS. SOURCE OF RN 2 NEAS.	ED FROM KE EASURED FR LER SER SER SER SER SER SER SER SER SER S	, E FT. DM KB 6-22-93 DBC 2028 2028 2028 2028 20 530 530 7 7/8 H20 530 7 7/8 H20 530 530 7 7/8 H20 530 530 530 530 530 530 530 53	CHINA COLORIST
LOG HEASUR DRILLING H DATE RUS BG. DEPTH DRIL DEPTH DRIL DEPTH LODO SOTTON LOG SOTTON LOG CASING DRI CASING DRI CASING DRI CASING DRI CASING LOG SIT SIZE TYPE FLUIG SOURCE OF RM 2 NEAG. RMF 2 NEAG. SOURCE OF RM 2 NEAG.	ED FROM KE EASURED FR LER ER BED INT. INT. LLER GER IN HOLE VISCOSITY ID LOSS SAMPLE YEMP. . TEMP. . TEMP. . TEMP. . TEMP. . TEMP.	, E FT. DM KB 6-23-93 DBC 2028 2028 2028 2028 2028 2028 20 530 7 7/8 H20 530 7 7/8 H20 530 530 7 7/8 H20 530 7 7/8 H20 7 7/8 H20 H20 H20 H20 H20 H20 H20 H20	CHINA COLORIST
LOG MEASUR ORILLING M DATE RUS BG. DEPTH DRIL OEPTH LOGO SOTTOM LOG SOTTOM LOG SOTTOM LOG CASING DRI CASING DRI CAS	ED FROM KE EASURED FR LER ER BED INT. INT. LLER GER IN HOLE VISCOSITY ID LOSS SAMPLE YEMP. . TEMP. . TEMP. . TEMP. . TEMP. . TEMP.	, E FT. DM KB 6-23-93 DBC 2028 2028 2028 2028 2028 20 520 520 520 520 520 520 520	with a constant
LOG HEASUR DRILLING H DATE RUN BG. DEPTH DRIL DEPTH LOGO DOTTOM LOG TOP LOGOCO CASING DRI CASING DRI CASING DRI CASING DRI CASING DRI DEDSITY OF PH AGO FLU DEDSITY OF PH AGO FLU DEDSITY OF PH AGO FLU DEDSITY OF RH O HEAG RHC O HEAG DURCE OF RH O HIT SIDCE NA OF LOCK	ED FROM KE EASURED FR ALER BER BER BER BER BER BER BER BER BER B	, E FT DM KB 6-23-93 DBC 2028 2028 2028 2028 2028 20 820 8	with a constant

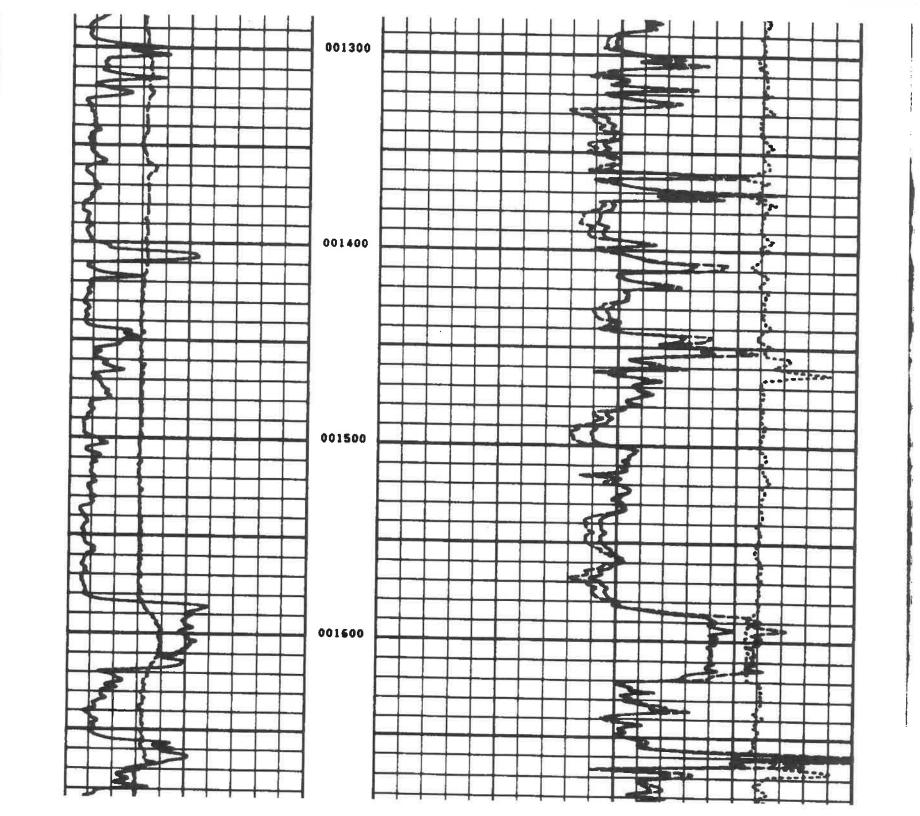
E SERVICES		
N 29.		
OSITE LOG	10	
CORP.	STINU.	
CT # 3 HELL # 2	5	
		│
	1 0 1 0	
STATE WV	, sca	
4892 OTHER SERVICE	N	
1 1	۲.	
	TYPE	
ROE	1001	
ELEVATIONS	F -	
71 KB 976 PERHANENT DATUH OF		
GL 871	<u>2</u>	
	CEV -	
	ö -	
	1 KD - 12	
	OL NO.	
	g E	
	7004, MG. 2206 2306	
	100 12 100 100 100 100 100 100 100 100 1	
		8 <u>1</u> MM
	B Š	
	21 2	
		• 7 •

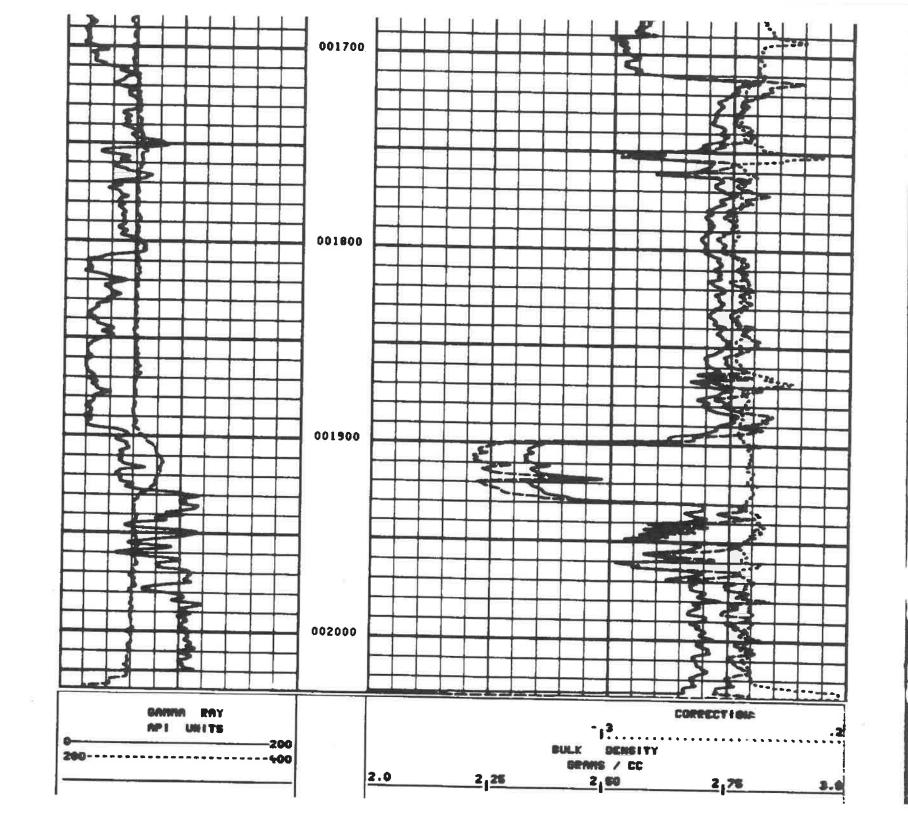
*-----

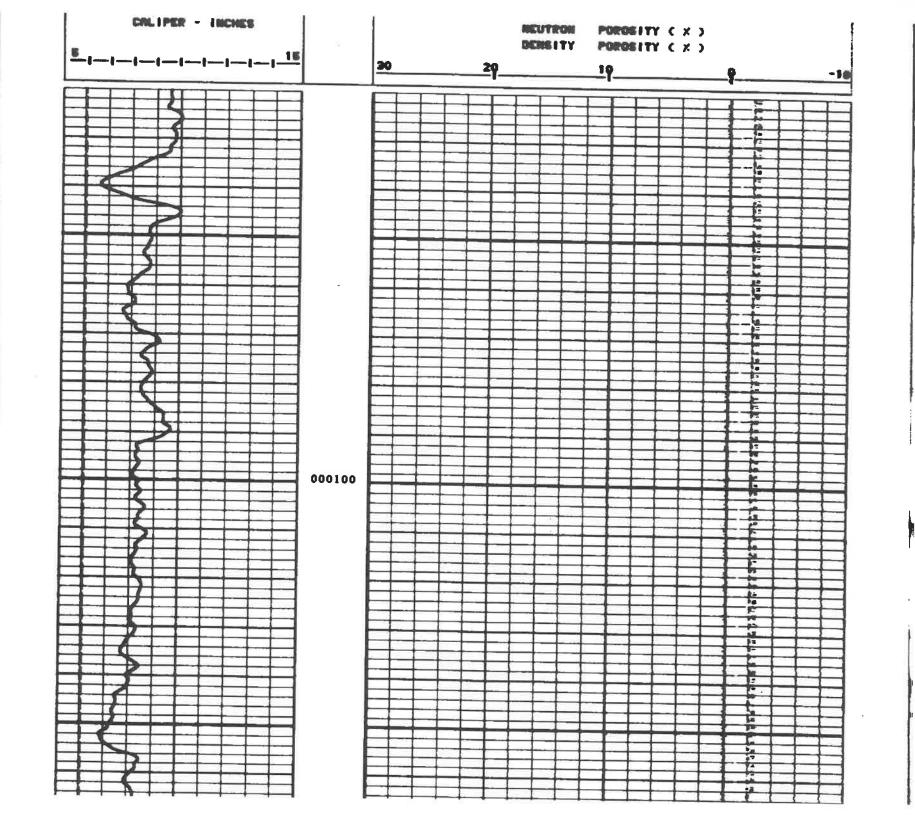


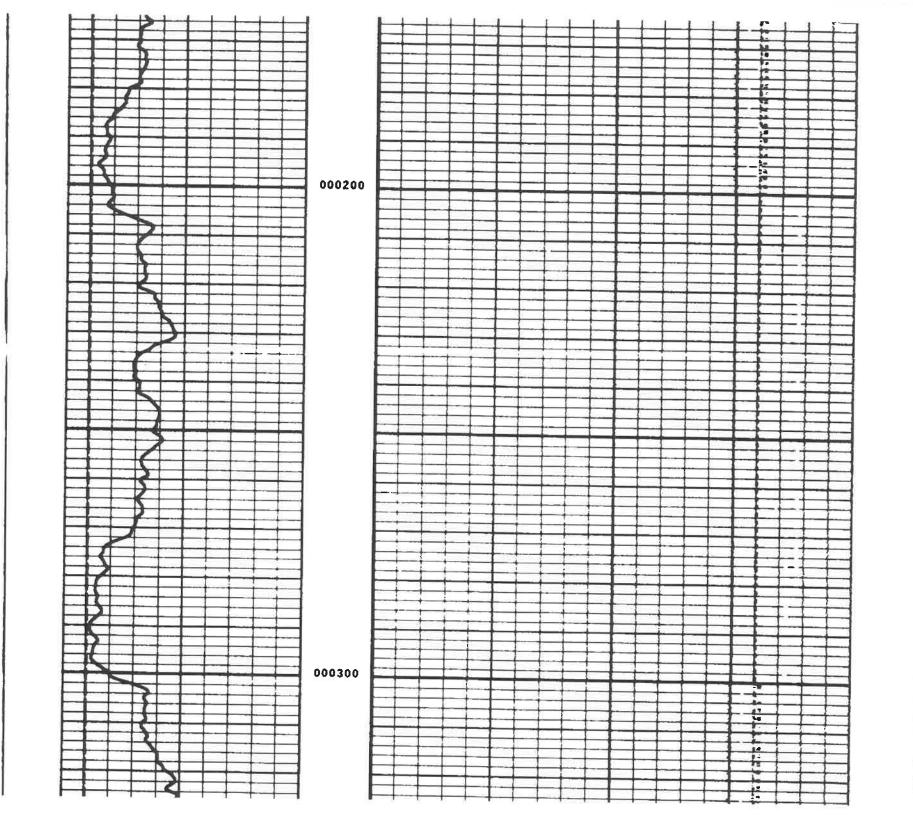


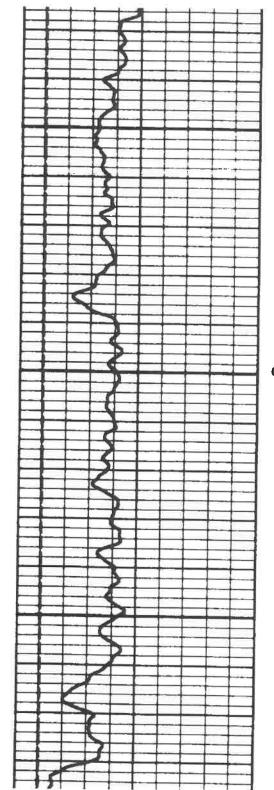


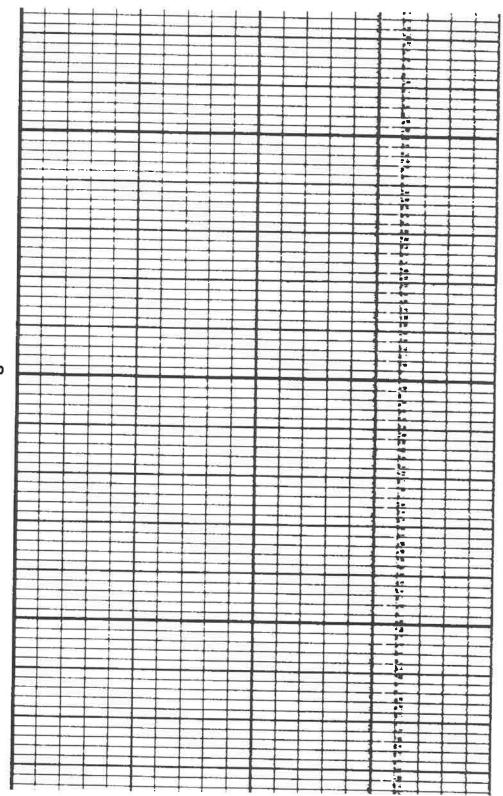


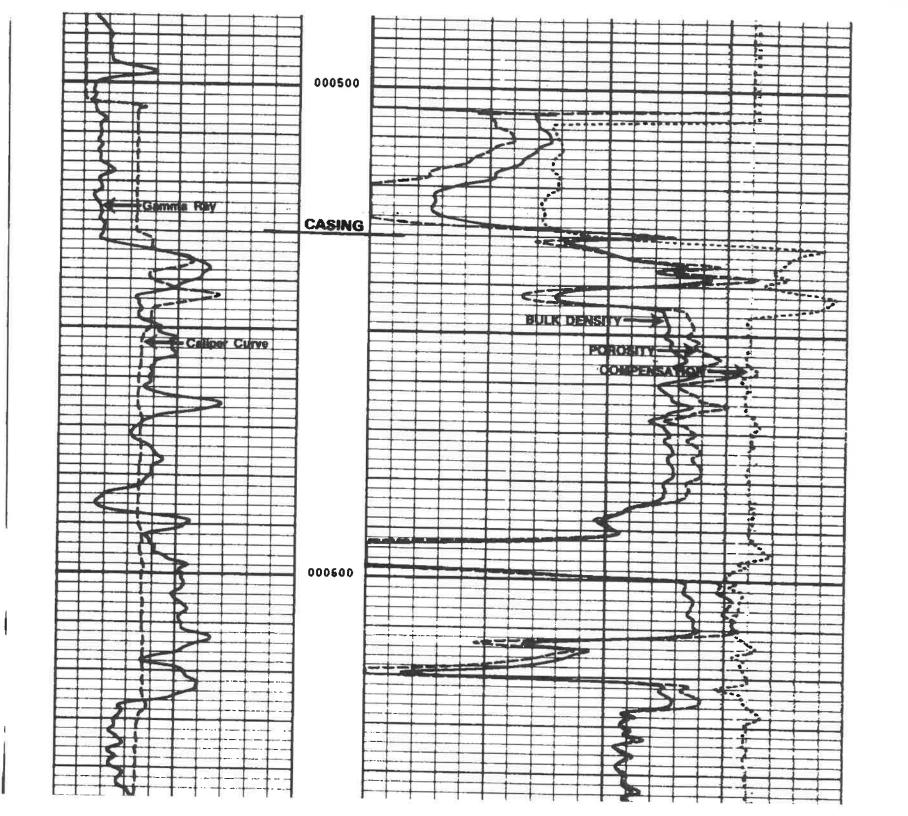


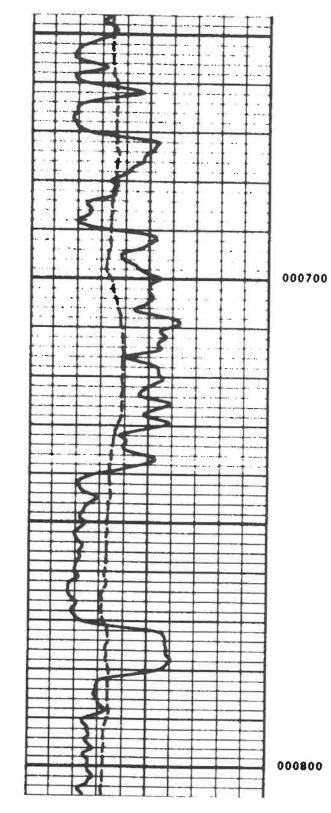


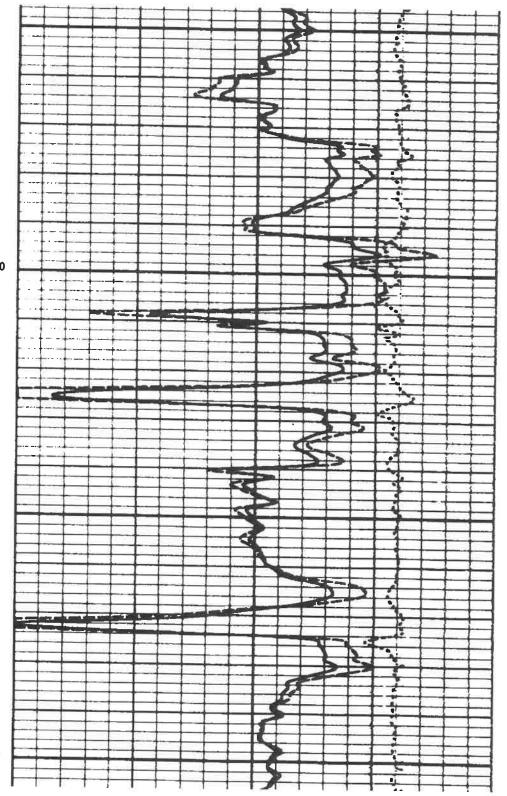


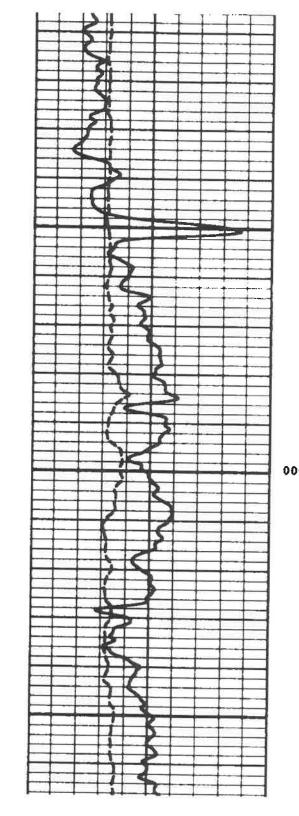


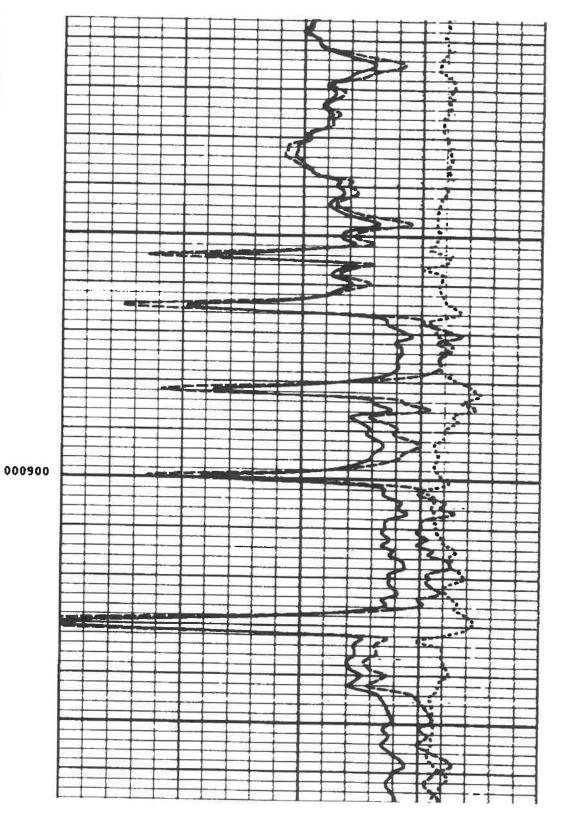


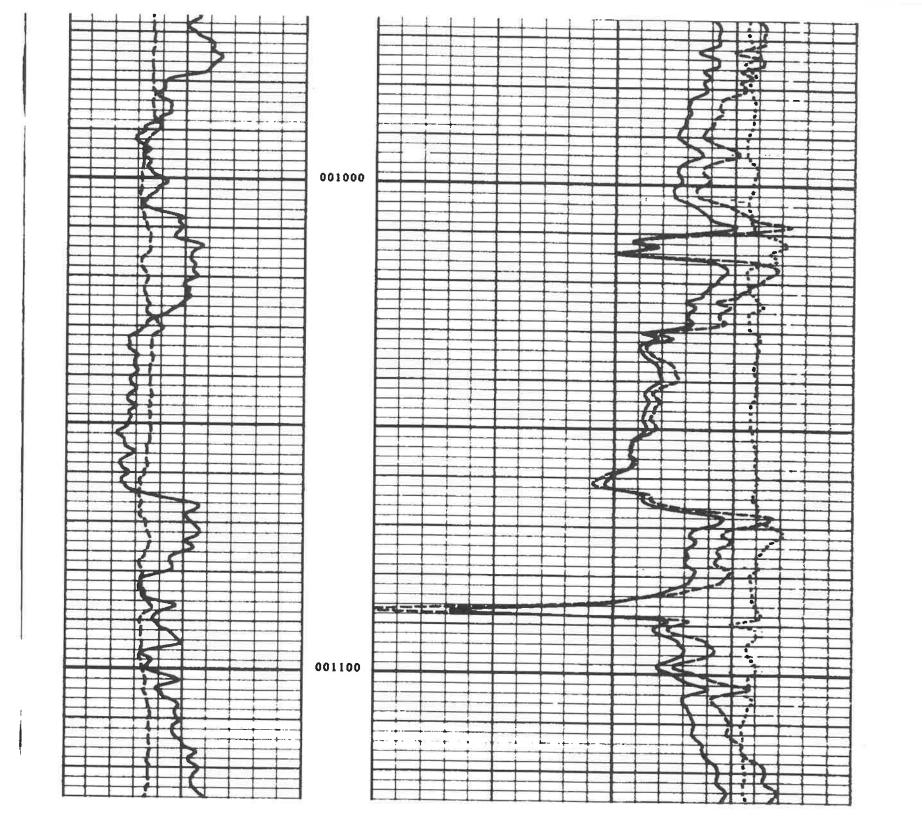


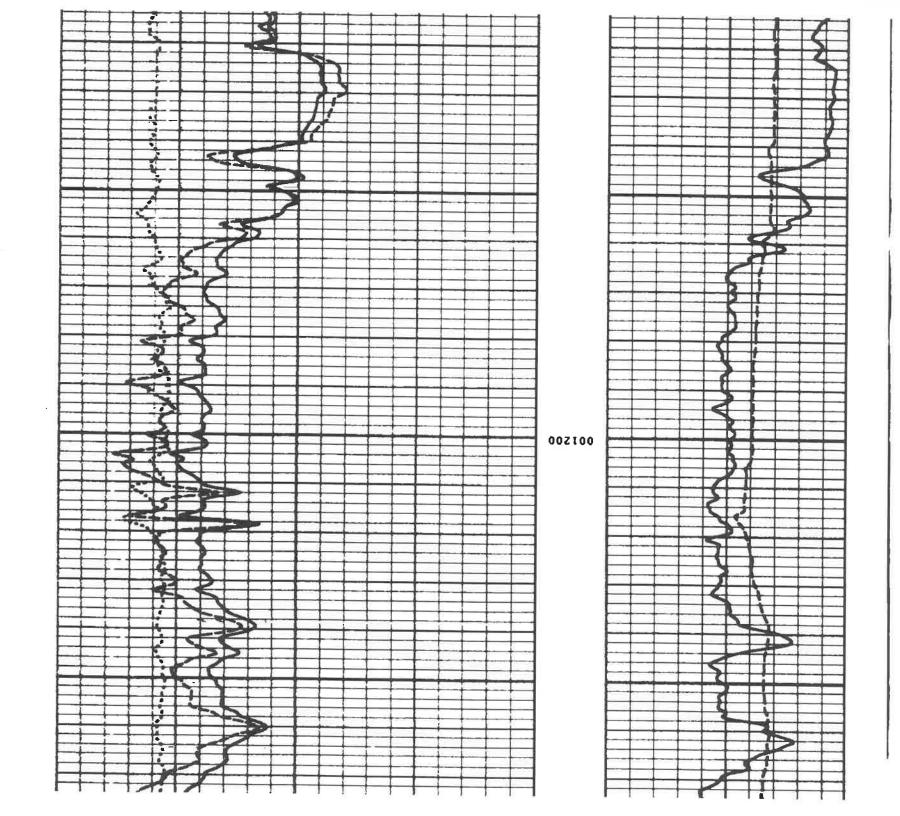


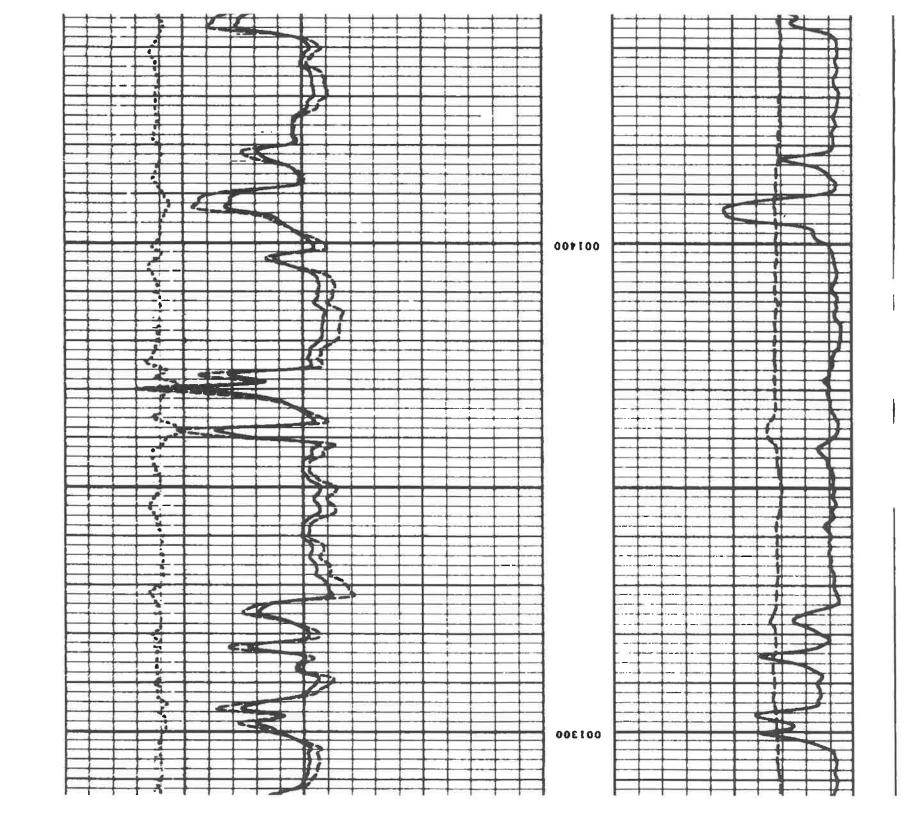


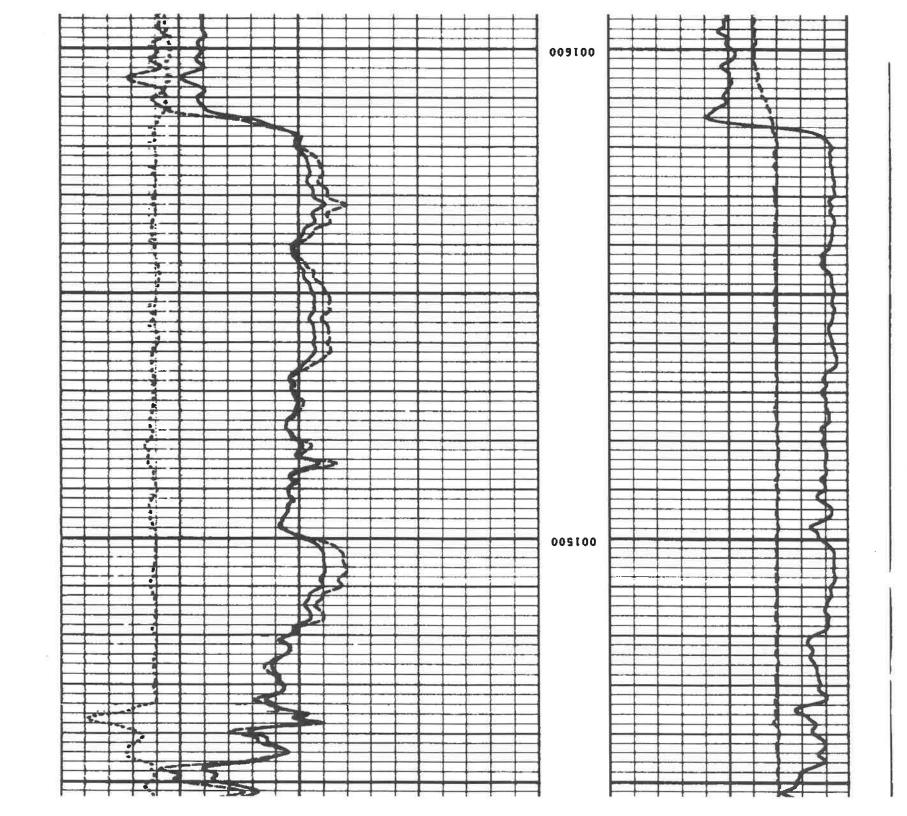


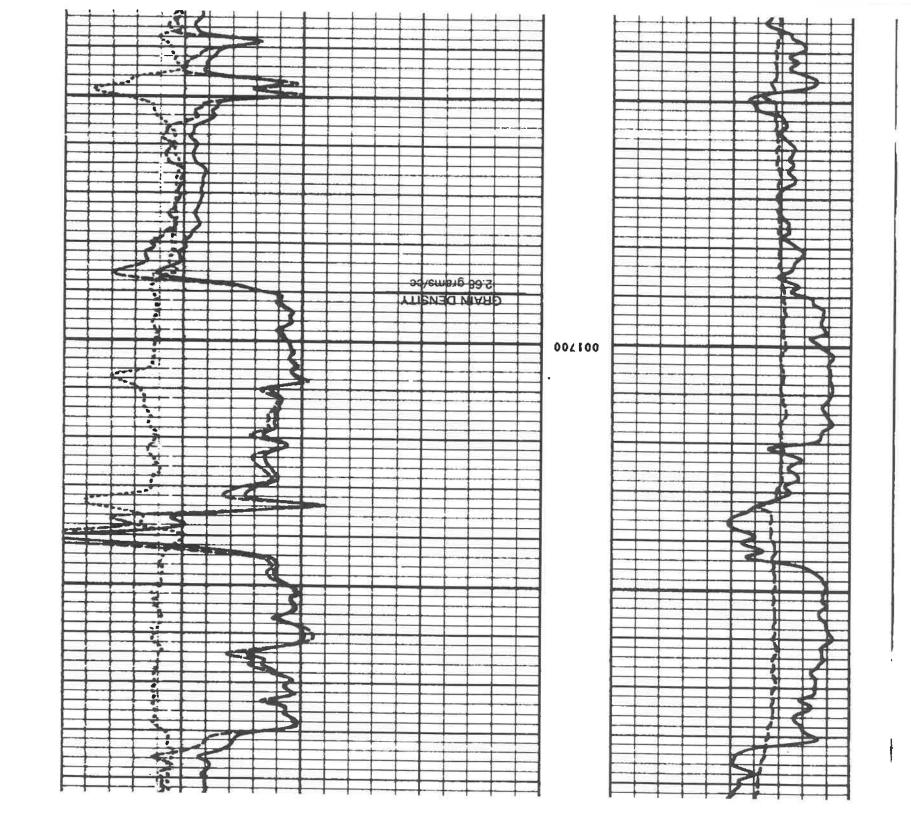


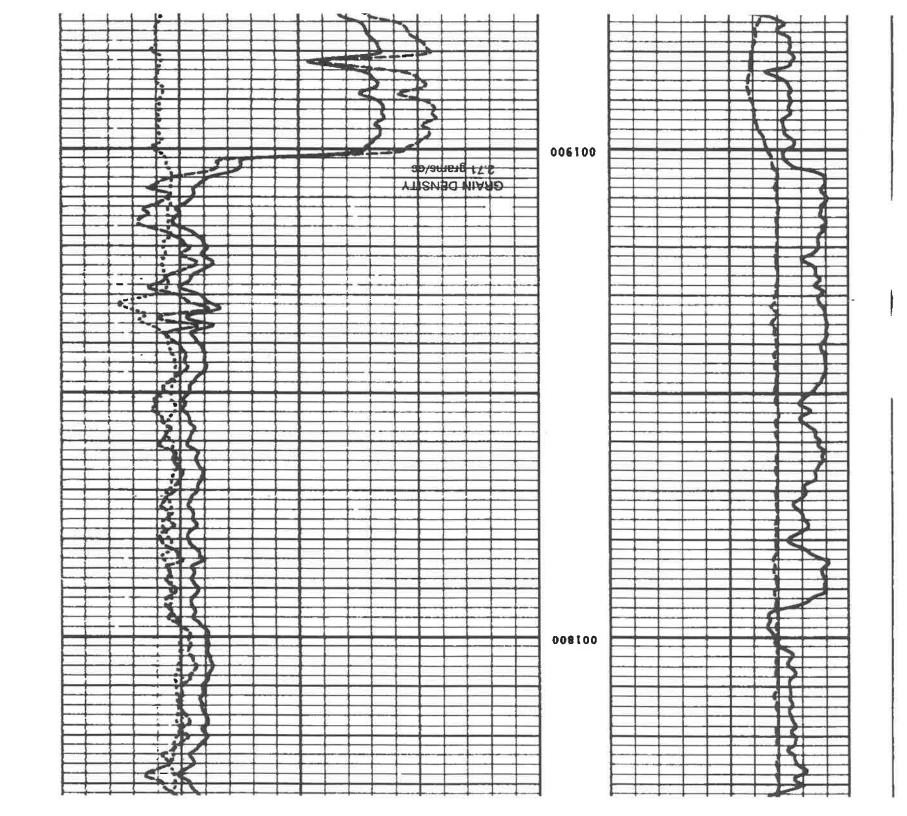


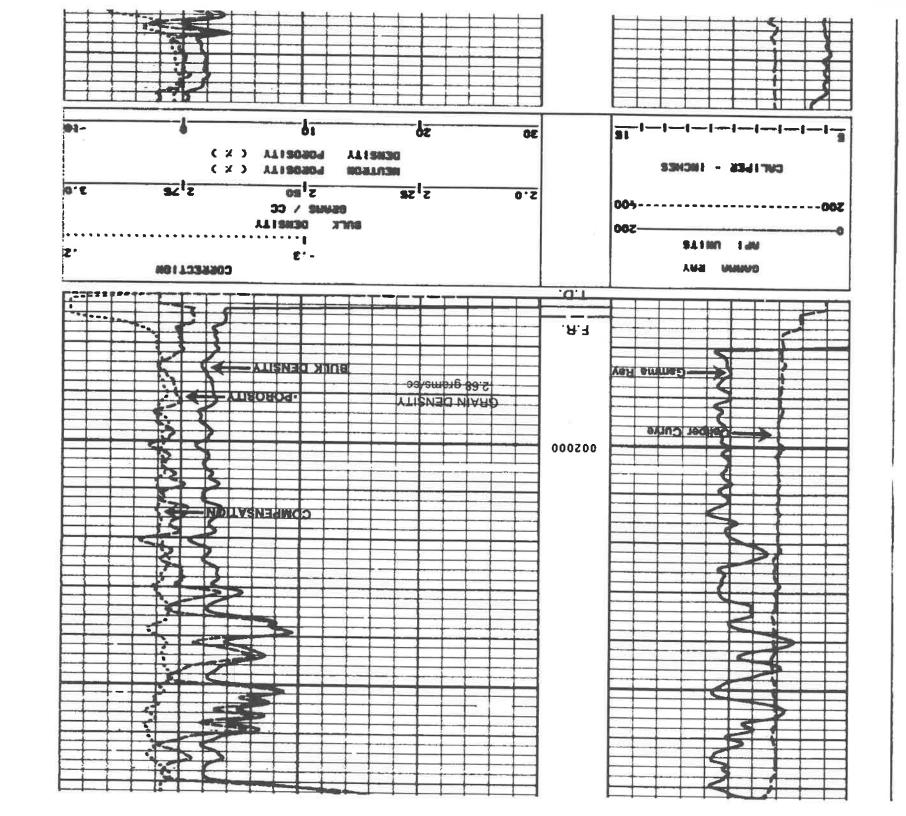


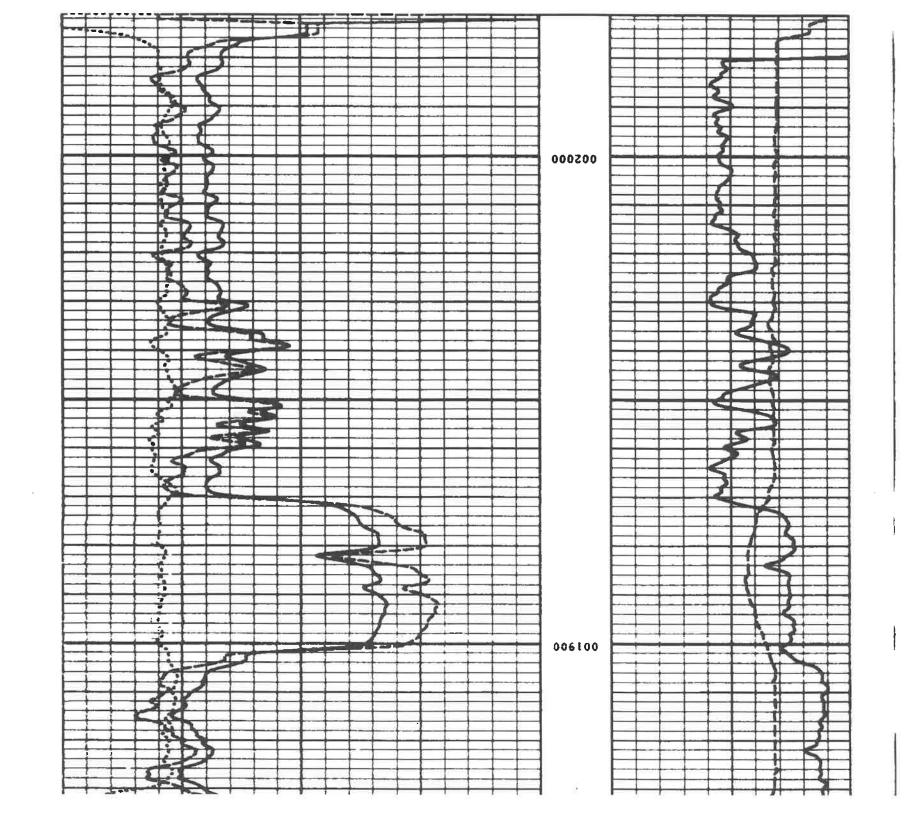


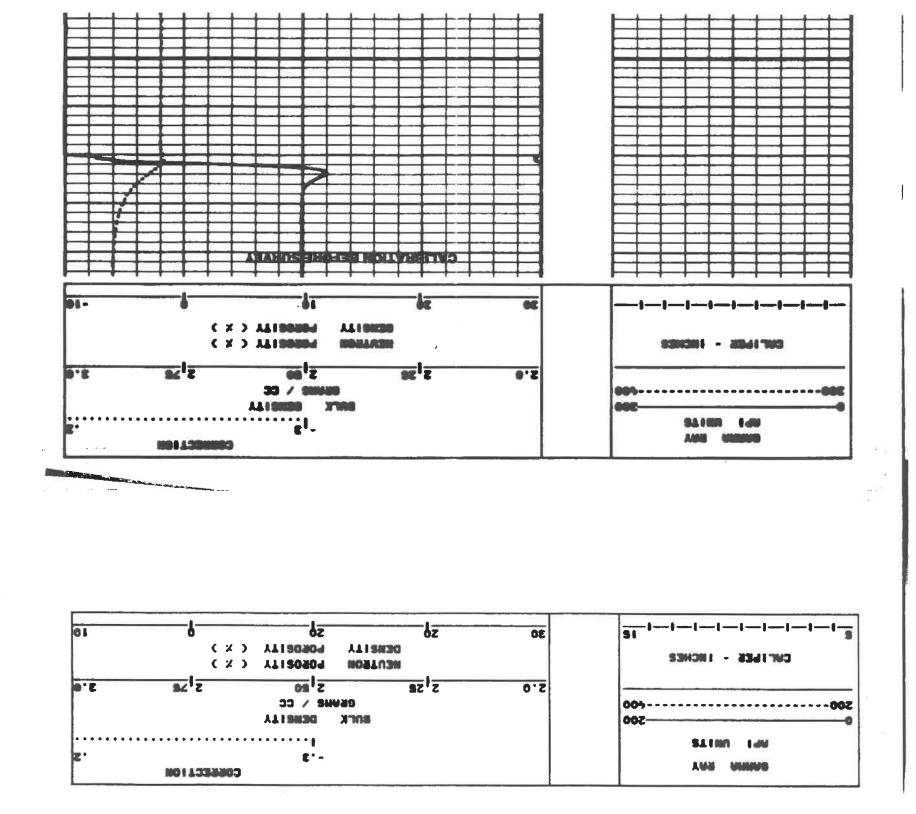


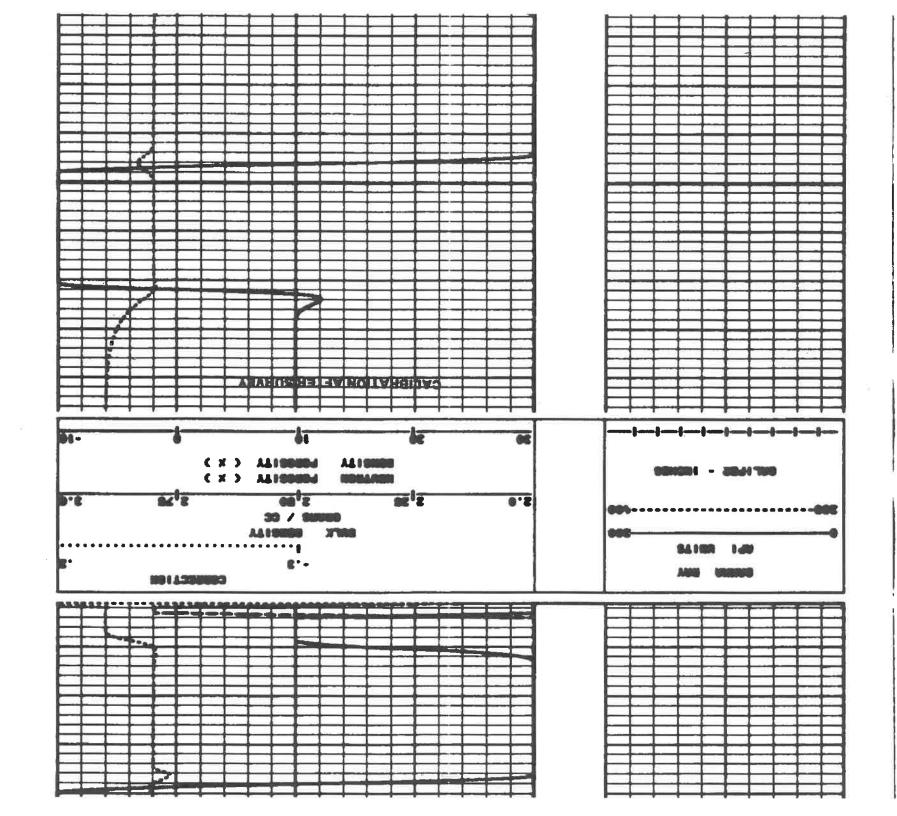


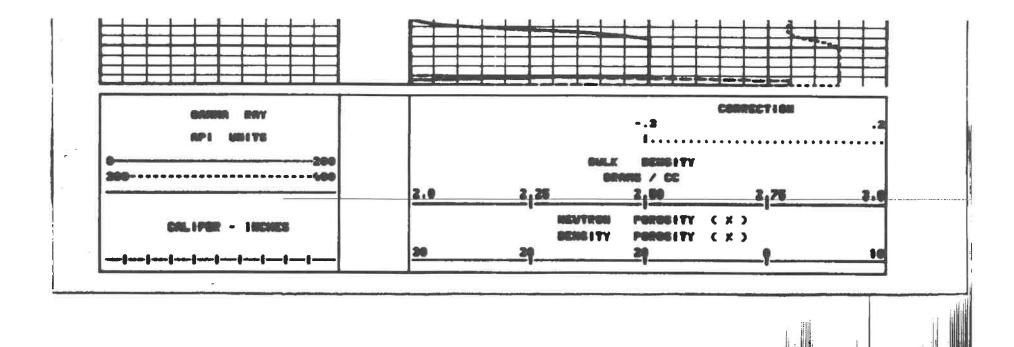






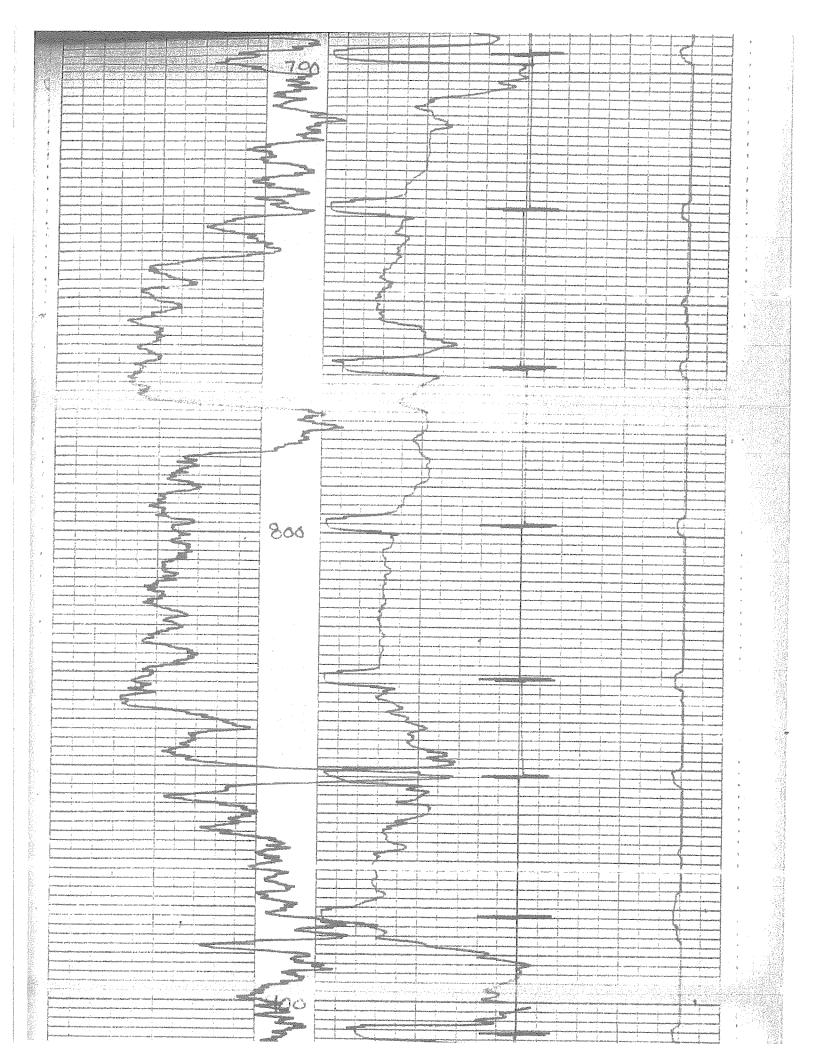


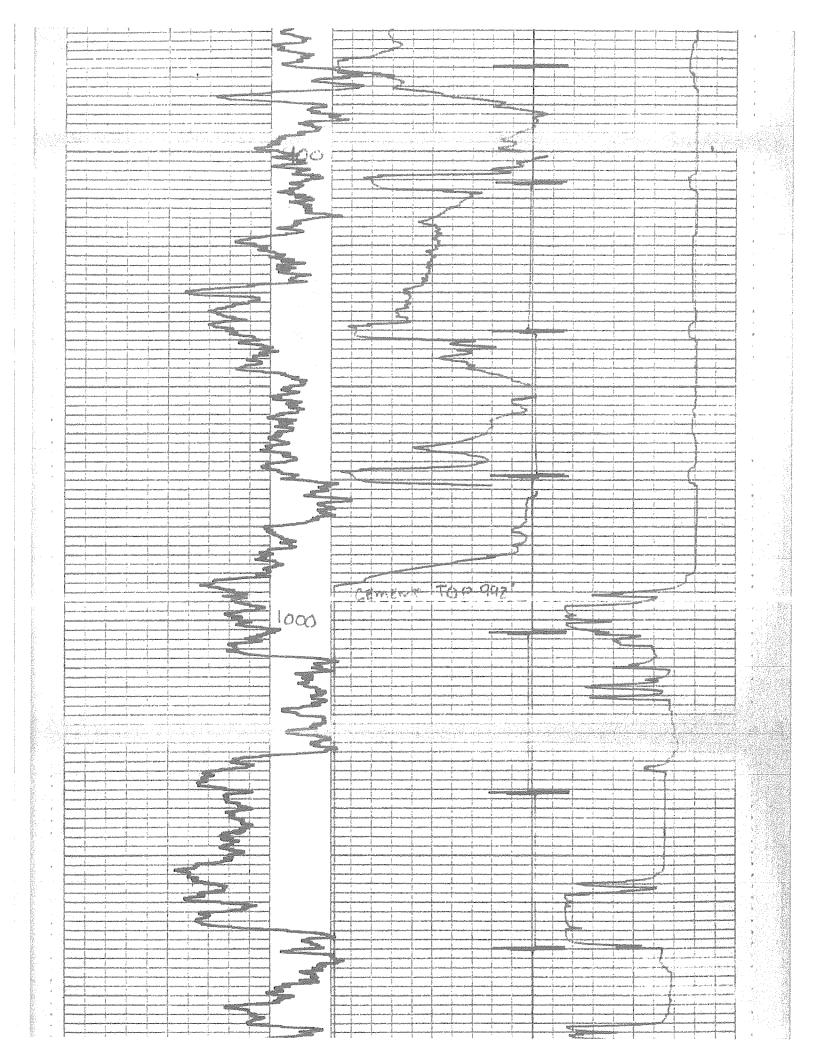


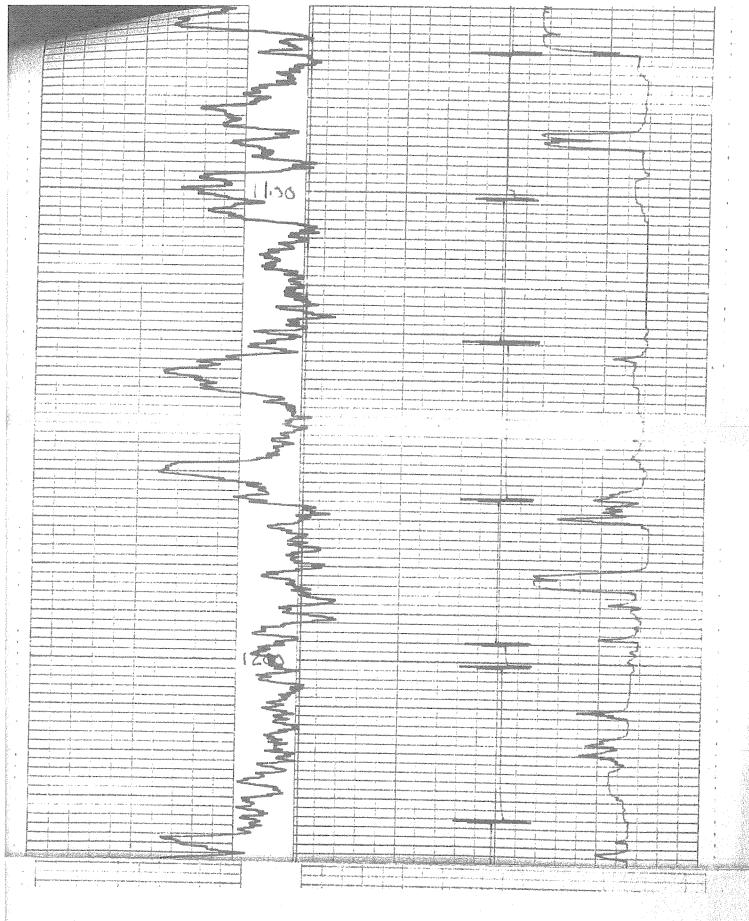


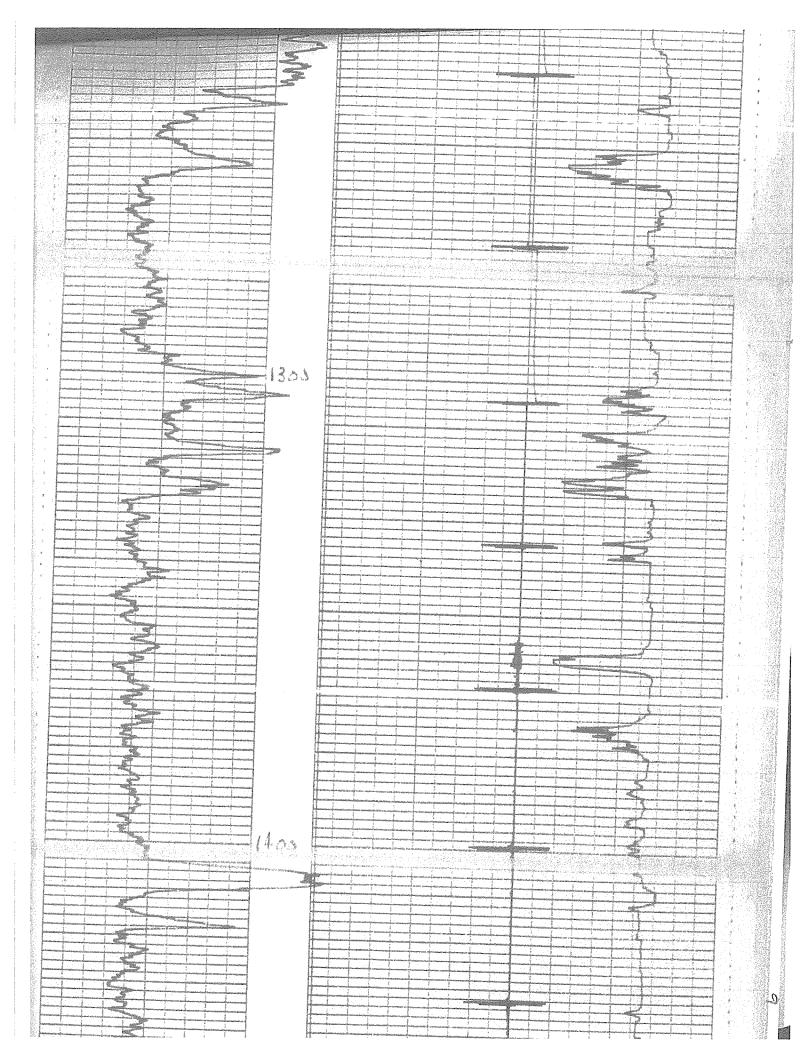
Services		GAMMA IENT B(DG
	MPANY QUAK ELL <u>I VARA C</u> ELD <u>Elk Dis</u> MUNTY <u>Kannun</u>	.o. TRACT	and the state of the second	
LOCA	TION:			A STRVICES:
SEC.	TWP	RGE	Permi 47-	1Ne <u>129 - 489</u> :
Permanent Datum: .og Measured From Drilling Measured Fror	KB .	_; Elev.; <u></u> Fl. Above Perm	Elev	: K.B. <u>*1744</u> D.F. G.L. <u>Stati</u>
Date	7-20-9	2		C. L. L.
Run No.	ONE			
Type Log	SIR B	V/0		
Depth-Driller	2026			
Depth—Logger Bottom logged interval	1963			
Top logged interval	the second s			
Type fluid in hole	700	and the second design of the second		
Salinity, PPM CI.	LUIATE &			
Density				
Level	- Fully			-
Max rec. temp., deg. F.	These			
Operating rig time	285			
Recorded by	Benning	4 6		
Witnessed by	TOR KNOP	as li		
un Bored	Iole Record			
No 80 Fro	WHEN I DEPARTMENT ON AN ADDRESS OF A STREET AND ADDRESS OF A DREET ADDRESS OF ADDRESS OF A DREET ADDRESS OF ADDRES	Size Wat	Casing Record From	
		and the second		10
				a service a service of the
		4/2 3		
· Marcal Annual Statistics of the Statistics of			- 1	
			1	

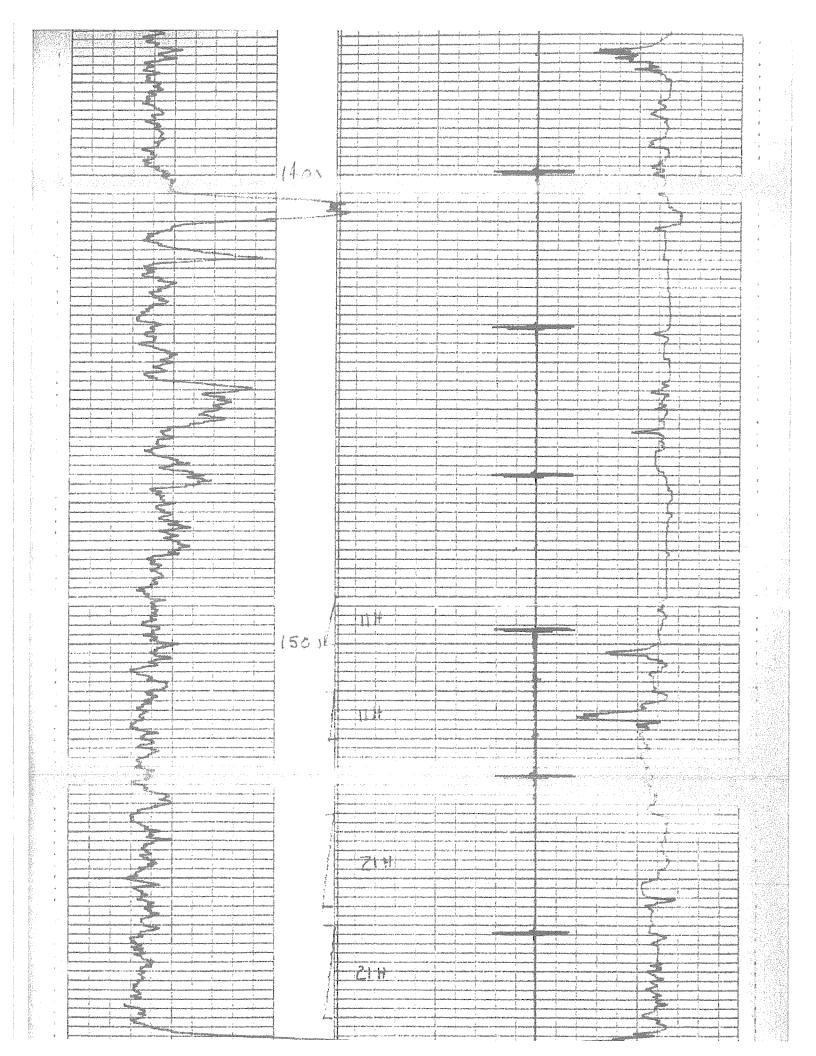
010	I NO.	9.2. m. 19	GAMM	A RAY	V	EQ	**************************************	ļ	Туре	I	PERF	ORATI		C u sis sisk	T &	. Dh.	
	<u>I NO.</u> DL MODEL	. NO.	Ont				den ann àrrain a trainn an an da		type	anter a finite de la company a com		To	-	From	N	o. Sho	NIS .
halica Alar Yoshigan	DIAM.	-	34.2	ļ	······································		***										
DET	ECT. MOI TYPE	DEL NO.			994-0400-0400 discrimination				há alta ann bha gcliù ma an às an th' bha d	_4	4)3	9()4	B Y	12	
age opender with mediene	LENGT	H	adala additi bala kata da ada ada anga					-	1993/D-1093/D-1997-01079320-1520-1								
	anter une desparation in sur 3 -				n da an stad biel de la set de l'an de la contra de la set de second			ļ									
anbahater seri v	nationalistic (national states) sub-	nonskal dage av naar at in den de	GENE	DAL	nen estellinen menseleiten et mente till fonderte		an and an and an angle of the	1		an a		athird and the second crossed				Milenti in contra degrajo a	
HOI	ST TRUCK	CNO.	UEIVE	<u>nal</u>			****	1		n a dhullan a she an				and a state of the state of the			
INST	T. TRUCK	NO.	131	1.57 #31.57.615 (marked and a			Gram arfanik cus proszie u socione										
<u> </u>	L SERIAL	<u>. NO.</u>								in the anticipation of the co				instation of the state of the stat		utvingentierenn	
				aanaaduuna		L	OGGI	G DA	٢٨	indataidantug		NDAHANNA (ANNY S					
		ENERAL	*****		*****	GAN	ima Ra	Y			8	00100%01000000000000000000000000000000		****			
NO.	DE FROM	PTHS TO		T.C.	SENS SETTIN		ZERO DG DIV.		CALE R. UNITS								
	1963	705	<u>54</u>	35	JUCINA		DL	Ario	n. UNITE	2							
	naare da se die eerste verseen. Gewone aan werden eerste verseen	Reconstruction of a			78 / 79 / 100 / 70 / 100 / 70 / 100		5.5										
	angel geter til a service af final sok af.				-										adlassis, que esta alacía		
	nliph ayr or spalespeans are to an arrow								antalan gelden et der mit het forsen.			tipninisk nominskipping, skusk spacel				aninkanska misaana sadaa	
REFI	ERENCE L	ITERATI	IRE:	alannaanaa						ando anteriore	dentais sectores						
n dalar angar ya maran	nijaanintara yaya ya anginar yikar 1 mer	sanange as is bit Aserta an Wellington	understatember is to at attabase ou	Anora (1990)							er sets weets at provise		Real Property and the	****	1965 mart 1960 mart 1		
QEM	IARKS:	en de las medicidas statementantales	denser freder of a dense and a management	an a		an fransser og sen sjon og som se som se	et general agen that a subject is an interesting	gagt af dias dia tanàna amin' dia ta	niganganika (Kalepinikan andropine - pinik) Ka		n na sana sa	ine addresses after in	manikassayitekan	till merk at turner statistica		ana da Antonio di Stato ana s	
nem	IMINO.	anad at entantic to bit it is in a set						******		ana a na kati na na kati			i de printe de la constitución de l				
	anala ta' na - na ana ana ana ana ana								-	-							
			opisijiiskoordelaanse rajas keleksiske	ulunadjulikun kauk gulun Mil	an a suite ann an tha ann an tha an tha an tha an tha ann an tha a Tha ann an tha ann an t	ana ana amin'ny managembany farant								 Anglandariki kwishing cunjuna Anglandariki kwishing cunjuna 	inni shahanini fizikalarini		
	anan in canada ta ta ta ta		an da maine i de la como de camo en española de se	iá dia para provinsi a prijedna -	مراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	No. 4 - Grand Martin Martin Statistics											
aler sons for son a fo	ga per nationale nation in any series in any	na, se tratetatut denombre dela de dade de colhe cadent a cond										anderleter-searcised	information de la construcción	Point de la companya			
eller trette formanen fo geler nag gef er gen van Migeren fan daar met en nie er een een de geneer een de	ga gan san salayangan waanan ini akabiga ngun san sulaan kapin disa (k. n. n. ananan ay mulaay kabagiyan ni un sang aka gina salakin unuun sula sing - kabi	naa - ar ayaana dharadaan ahay aha dada daraddaa walaad araada a aar - aha uu uu uu uu uu uu		16 - Maray and games of particle - Materia and the State of State		۵۰. ۵۰ ip ۱۵۰۰۰۰۰۰۰ ۲۰۰۵ ۳۰۰ ۲۰۰۵ ۲۰۰۵ ۵۰۱ ۵۰ ۱۹۹۳ - ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۱۹۹۹ - ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹ ۲۰۰۹		*****	*****	, a da fonga si kan da	n a standard of the standard of	ananitation ana maina an mataina ana ang ang ang ang ang ang ang ang a	ngin namete dag a anta nama inte nalional contents records	9-1894/2010-00220-029-01-19-20-0 1994/1994/2010-029-02-02-02-02-02-02-02-02-02-02-02-02-02-		****	
1964 - 1999 - 1997 - 2004 - 19 1969 - 2005 - 2005 - 2005 - 2005 2006 - 2005 - 2005 - 2005 - 2005 2006 - 2005 - 200					,												
	G.	\MMA	RAY								-landar sold a state			editidemontational of the second			
	annennen Statut	an a	RAY								- ferrir in statistica						
	annennen Statut	an a	Se = t = 100000 (00000 (00000))														
	annennen Statut	an a	Se = t = 100000 (00000 (00000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut	an a	See = t = 100000 (00000 (000000))														
	annennen Statut		See = t = 100000 (00000 (000000))														
	API G		See = t = 100000 (00000 (000000))														
	API G																
	API G																
	API G			Charles and the second													
	API G																
	API G																
	API G																
	API G																
	API G																
	API G																

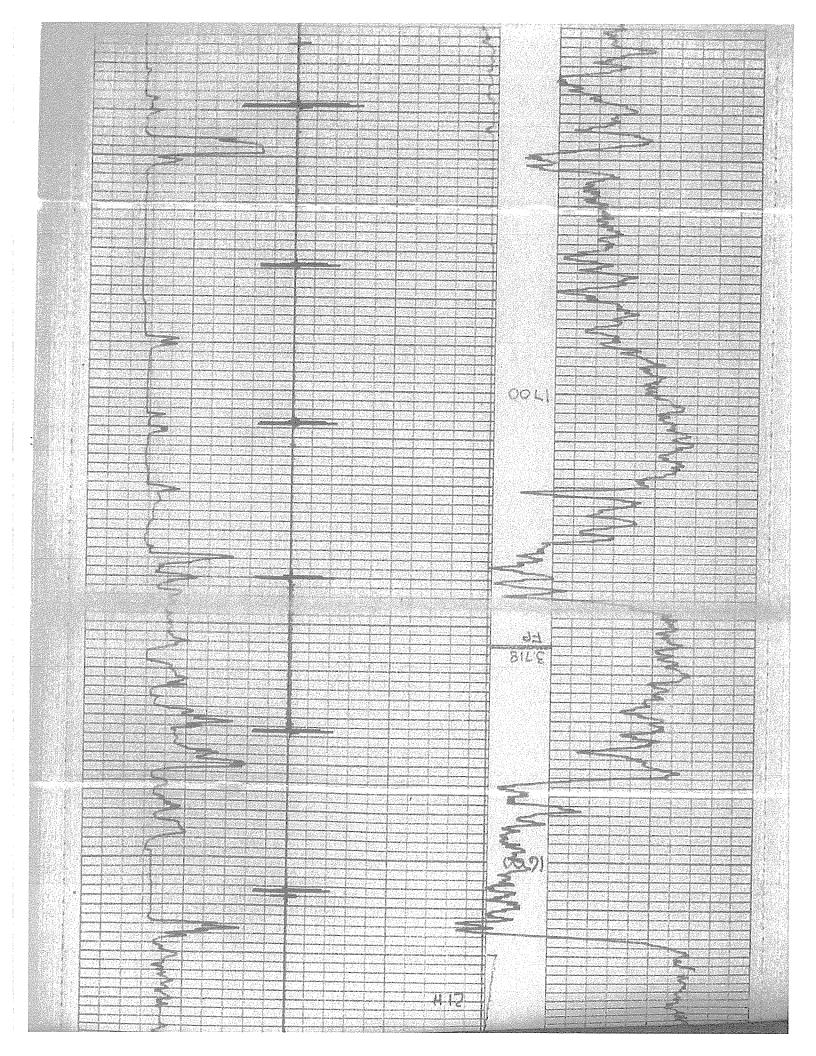


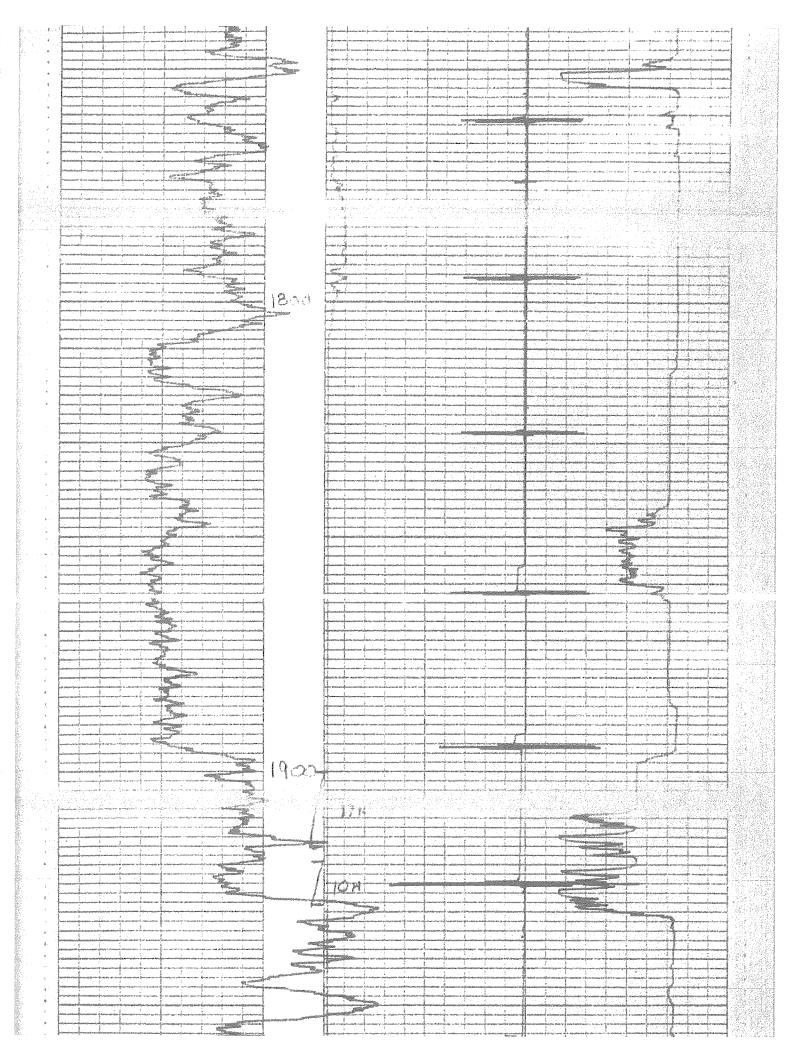


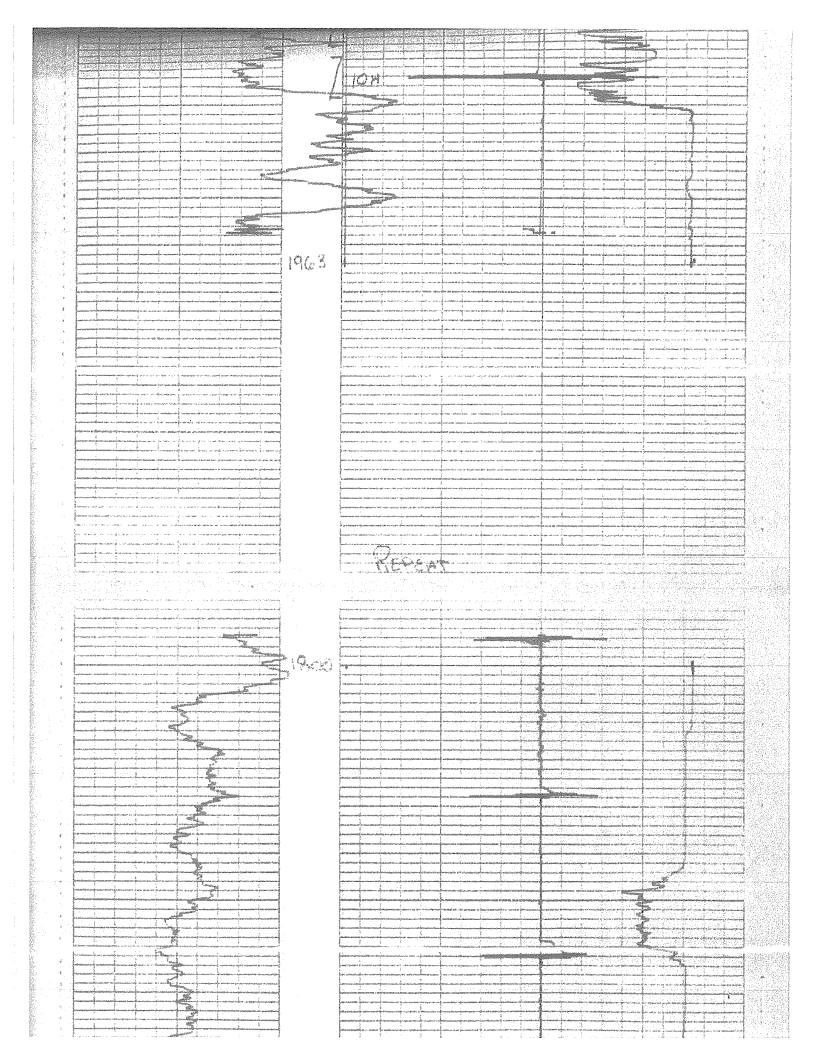


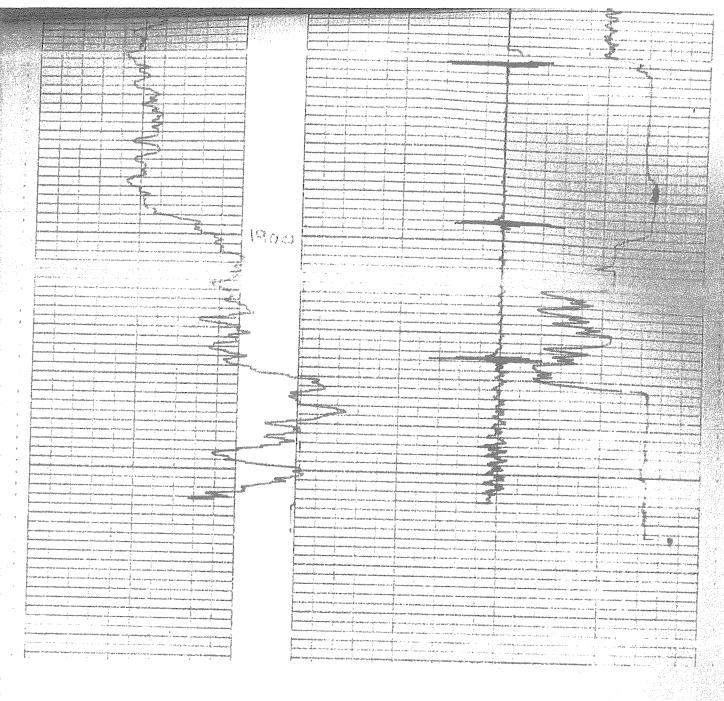














Section 9 – Operating Requirements

UIC 2D0394892

Section 9 - Operating Requirements/Data:

The Ivana 3 #2 has previously been permitted as a UIC Class 2D injection facility. Production casing of 4 1/2" 9.5# was run to a depth of 2030' with 2 /8 Sealtite EUE tubing and R4 Halliburton 4 1/2 x 2 3/8 packer set at 142'. Injection fluid makeup is Brine water with no corrosion inhibitor and with 0 psig as an annular pressure. Annular corrosion inhibitor was added when the Sealtite tubing was installed but their are no records of type or brand. Historical volumes injected at this location are approximately 10 BPH at an average 400 psig. Bottom hole psig is 1050#. The projected future use is expected to be the sam

The facility utilizes two filtration units both using 10-micron filters, one at the plant and one at the well.

A list of API wells by API number to be serviced by a brine disposal well(s) are listed on APPENDIX G

MIT inspections shall be performed a minimum of every five years or anytime service work is performed to the well or anytime routine inspections show the possibility of an integrity problem. Casing and tubing pressures are monitored during operational hours. Routine inspections are performed for monitoring for corrosion, potential leaks and plant maintenance. Inspection check points include wellhead, tanks, containments, equipment including connections and location access.

All routine inspections and tests shall be recorded, logged and filed in the local office until transferred to and filed in the office of the company's regulatory analyst. In the event of any suspect well or pipeline integrity problem the well will be immediately shut in and injection activities shall cease with proper notifications being made. In the event of any well integrity problem the well will be made

"static" and evaluation of data shall be performed and remedial work will begin once a plan of action has been put into place. Any injection fluids shall be transported and disposed of in an alternated state approved disposal facility or permitted UIC Class 2D well.

A copy of the current mechanical integrity test is included.

WR-37	MIT			ſ	470)39()4892	2
12/23/19	PRE-OPE	OF RATION (FFICE OF	IRONMEN OIL AND ATE FOR GRITY TE	GAS LIQUIE) INJECT		
				T Date: 5/24 erator's We		/#• Ivana #	2	
				I#: 47- 039		- 04892	2	
				C Permit #:				
			Fie	ld Name (2	R only):_			
WELL OPERATOR							huck Shafer	
Address: 414 Sum WV 2530	mers Street, C 01	harlestor	١,	Addre	ss: 414 s 2530	Summers S 1	Street, Charlest	on, WV
INJECTION FORMA							-1930 feet (bot	
INJECTION PERMI) Non-Com	mercial Dis	sposal 🗌	2R Area	ı Permit (E	OR) 🗌 3S S	Solution Mining
Drilling Waste Li Additives (ie. biocide WELL CONSTRUCT	es, inhibitors, etc	.) <u>Alpha 320</u>	7 corrosion in			ther (Speci		
CASING OR TUBING TYPE	SIZE	GRADE	WEIGHT PER FT.	NEW	USED	USED IN DRILLING	FOOTAGE LEFT IN WELL	CEMENT USED
CONDUCTOR								
FRESH WATER	8 5/8	J-55	20	new		722		CTS
COAL								
INTERMEDIATE								
PRODUCTION	4 1/2	J-55	10.5	new			2220	210sks
TUBING	2 3/8	J-55	sealtite	new		1452		
LINERS								
PACKER	TYPE: R-4 Hallib	urton	SIZE: 4 1/2	2" x 2 3/8"		DEPTH: 1	452	
MECHANICAL INT	s Pressure Test d? ☑ Yes □ N □ Other (Sp	lo If Yes, ecify) <u>filled</u>	with water ar	nd nitrogen				
MAXIMUM PERMIT	FED WELLHEA	D INJECTI	ON PRESS	JRE 395]	psi MIT	PRESSURE 600	o psi
MECHANICAL INT				psi for 30 m	ninutes ar	nd verified	with a chart rec	order.
(2R Area Permits: If m	ultiple pump lines	are tested to	gether, pleas	e list wells se	erviced by	the tested p	oump lines.)	

API#: 47-039

- 04892

WR-37 12/23/19

NOTE:

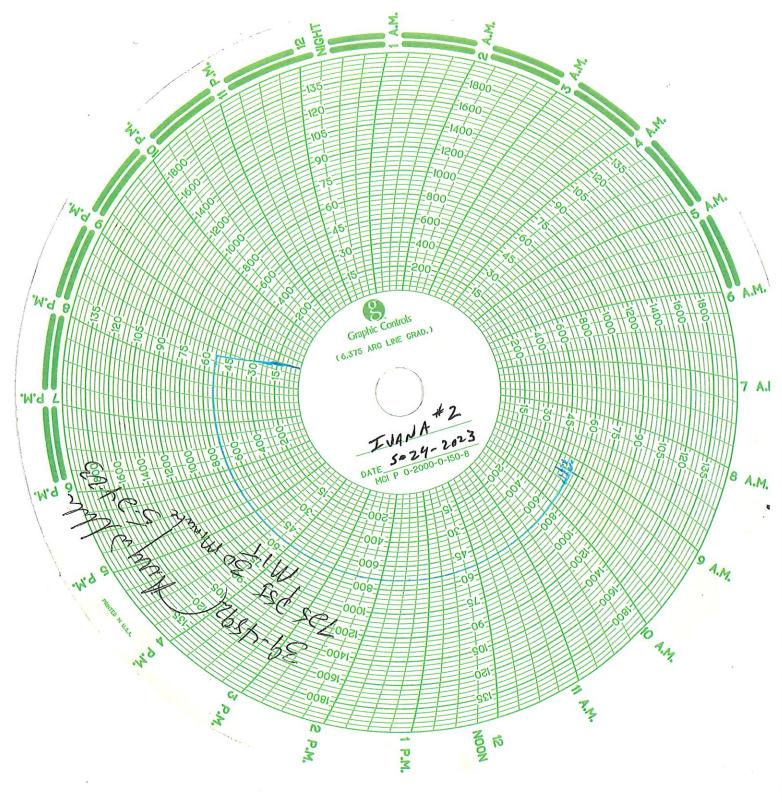
•	If the well and the pump line are tested together the MIT pressure must be 1.5 times the maximum permitted
	injection pressure held for a minimum of 20 minutes with no more than a 5% loss.

- If the well is tested separately, the MIT pressure must be 1.5 times the maximum permitted injection pressure held for a minimum of 20 minutes with no more than a 5% loss.
- If the pump line is tested separately, the MIT pressure shall be the maximum permitted injection pressure plus 100 psi held for a minimum of 20 minutes with no more than a 5% loss. Multiple pump lines can be tested together.
- All MITs must be witnessed by a state inspector. A valid recording chart containing the inspector's signature must accompany this completed form.
- All MITs that fail must be submitted using this form and chart.
- Submit all MIT required documentation to OOG within 30 days of test.
- The mechanical integrity of this well must be demonstrated at least 5 years from this test date and each time work is completed on the well or pump line to continue injection.

The undersigned certify:

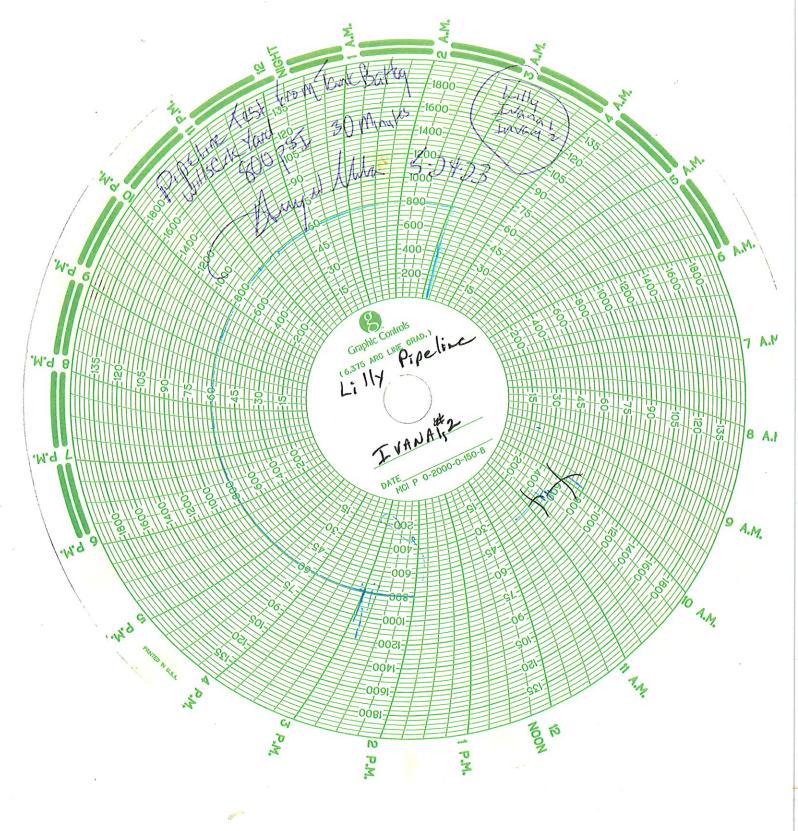
The MIT was performed on 5/24/23	
The well and/or pump line:	
\checkmark demonstrated mechanical integrity or \square failed to demonst	rate mechanical integrity.
The well and/or pump line: demonstrated mechanical integrity or failed to demonstrated mechanical integrity or failed to demonstrate	, Inspector WVDEP - Office of Oil and Gas.
Diversified Production	6/14/23
Permit Holder Company Name	Date
Church S. hole	
Manager-Production	
Office of Oil and	Gas Use Only:
UP TO A MAXIMUM WELLHEAD INJECTION PRESSURE	OFpsi
Special Conditions:	
	······································
UIC Program Manager	Date

WVDEP-Office of Oil and Gas



. .

8. .



·



9502 1126 3461 4170

June 18, 2024

WV Dept. of Environmental Protection Office of Oil & Gas Mr. James Martin, Chief Mr. Andrew Lockwood 601 57th Street, SE Charleston, WV 25304

RE: May 2024 Site Injectate Sampling Analyses Station 1: Permits 2D0394892 2D0394844 2D0392262

Diversified Production LLC. 101 McQuiston Drive Jackson Center, PA 16133

Dear Gentlemen,

On behalf of Diversified Production LLC, please find the May 2024 injectate sampling analyses performed and submitted in compliance with Rule 47 CSR 13 and W Va Code §22-11 & 12 and per the parameters of the individual permits listed above. The sampling was conducted on May 15, 2024 at Diversified Production LLC Station 1 facility located in Kanawha County WV facilitating Permit 2D0394892, 2D0394844, and 2D0392262. The analysis was performed by the ALG Group USA – Pace Analytical Services, LLC, a WV DEP authorized laboratory and documents the chain of custody of the sampling.

If you have any questions, or require any additional information, please contact me per the signature contact information below.

Sincerely Kim Christian

Diversified Gas & Oil kchrisitan@dgoc.com (681) 230-4886 (304) 532-7332 EHS Regulatory Analyst

Diversified Gas and Oil Corporation Diversified Production LLC 101 McQuiston Drive Jackson Center, PA Phone (681) 230-4886



Injectate energy Analysis

Diversified Production LLC

101 McQuiston Drive Jackson Center, PA 16133

2024 Annual Injectate Sample

UIC Site: Station 1 Wills Creek, Elkview, WV

UIC PERMIT #2D03902262 003 HF LILLY #1 KANAWHA COUNTY, WEST VIRGINIA

UIC PERMIT #2D03902262 003 HF LILLY #1 KANAWHA COUNTY, WEST VIRGINIA

UIC PERMIT #2D03902262 003 HF LILLY #1 KANAWHA COUNTY, WEST VIRGINIA



13-Jun-2024

JL Rhudy Envirocheck of Virginia 375 Mountain Lane Tazewell, VA 24651

Re: WV UIC Wells near Charleston, WV

Work Order: 24050999

Dear JL,

ALS Environmental received 1 sample on 15-May-2024 02:46 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - South Charleston and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 1740 Union Carbide Drive, South Charleston, WV, USA PHONE: +1 (304) 356-3168 FAX: +1 (304) 205-6262

Sincerely,

Rebecca Kiser

Electronically approved by: Rebecca Kiser

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 385

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 13-Jun-24

_

Client:	Envirocheck of Virginia
Project:	WV UIC Wells near Charleston, WV
Work Order:	24050999

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
24050999-01	IVANNA #2, IVANNA #1, HF Lilly #1 Composite	Liquid		5/15/2024 09:45	5/15/2024 13:06
24050999-01	IVANNA #2, IVANNA #1, HF Lilly #1 Composite	Liquid		5/15/2024 09:45	5/17/2024 08:00

Client:	Envirocheck of Virginia	
Project: Work Order:	WV UIC Wells near Charleston, WV 24050999	Case Narrative

Samples for the above noted Work Order were received on 05/15/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:

Batch R403803, Method A4500-H B-11, Sample 24050999-01C: Sample was received and analyzed outside of the holding time at the request of the client. Results should be considered estimated. pH

Subcontracted analytical data has been appended to this report in its entirety.

Date: 13-Jun-24

ALS Group, USA

-

Client:	Envirocheck of Virginia	QUALIFIERS ,
Project:	WV UIC Wells near Charleston, WV	ACRONYMS, UNITS
WorkOrder:	24050999	

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND O	Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
cronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count

Units Reported Description as noted

А

D

Е

SW

mg/L	Milligrams per Liter
none	
s.u.	Standard Units

ASTM

EPA

APHA Standard Methods

SW-846 Update III

Client:Envirocheck of VirginiaWork Order: 24050999Project:WV UIC Wells near Charleston, WVWork Order: 24050999Sample ID:IVANNA #2, IVANNA #1, HF Lilly #1 CompositeLab ID: 24050999-01Collection Date:5/15/2024 09:45 AMMatrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed	
PH (LABORATORY)		Meth	nod: A4500-H	B-11			Analyst: BJL	
pH (laboratory)	5.53	н	0	0.020	s.u.	1	5/15/2024 16:53	
Temperature	21.2	Hn	0		s.u.	1	5/15/2024 16:53	
SUBCONTRACTED ANALYSES		Method:SUBCONTRACT						
Subcontracted Analyses	See attached		0		as noted	1	6/12/2024	

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:Envirocheck of VirginiaWork Order:24050999Project:WV UIC Wells near Charleston, WV

QC BATCH REPORT

Project: WV UIC Wells near Charleston, WV
Batch ID: B403803 Instrument ID STC-WC

Batch ID: R403803	Instrument ID STC-	WC	Ν	Method:	A4500-H B-′	11					
LCS	Sample ID: LCS-R40380	Ur	nits: s.u.		Analysis	Analysis Date: 5/15/2024 04:53 PM					
Client ID:		Run ID: STC	-WC_240)515E	Seq	No: 1076	4132	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	4.12	0	0.020	4	0	103	90-110	0			
DUP	Sample ID: 24050983-01	C DUP			Ur	nits: s.u.		Analysis	s Date: 5 /*	15/2024 0	4:53 PN
Client ID:		Run ID: STC	-WC_240)515E	Seq	No: 1076	4134	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	5.18	0	0.020	0	0	0	0-0	5.17	0.193	20	Н
Temperature	21.8	0	0	0	0	0		21.8	0		н

The following samples were analyzed in this batch:

24050999-01C



ALS Environmental 1740 Union Carbide Drive Laboratory location: South Charleston, WV 25303 (Tel) 304.356.3168 (Fax) 304.205.6262

Chain of Custody Form

Page <u>1</u> of <u>1</u>

					ALS Pr	oject M	anager:		1			1.000		Work	Order	#:	1.220	ere min		11
	Cu	stomer Informatio	n		Pro	oject Inf	ormation			1.1		P	arame	ter/Me	thod R	equest	for Anal	ysis		
	Purchase Order			Project	Name N		Vells near	Charlest	on, WV	A	Al, As, Ba	, Ca, Fe	e, Mn,	Na, Sr						
	Work Order			Project N	umber					в	Br, Cl, SO	4								
	Company Name	Envirocheck of Virg	ginia, Inc.	Bill To Cor	npany E	nviroch	eck of Virg	inia, Inc.		С	TDS, pH					-				
	Send Report To	JL Rhudy III		Invoic	e Attn. JI	. Rhudy	III			D	Specific C	Gravity			5.1					
	Address	375 Mountian Lan	e	Ad	ddress 1	20 Love	lane St.			\vdash	Ra226/2:						- 16.			
										F	Gross alp	ha/bet	a							
	City/State/Zip	Tazewell/VA/2465	1	City/Sta	te/Zip B	luefield	/VA/24605	5		G										
	Phone	276-701-3093			Phone 2	76-701-	3093			н										
	Fax			的日本。例如"小学"。 例如"你们"。 例如"你们"。	Fax					1	885			_						
	e-Mail Address	il@e2cofvirginia.co	<u>m</u>	e-Mail Ad	ddress jl(@e2cofv	irginia.com	0		L										
No.		Sample Description	on	Date	ті	me	Matrix	Pres.	# Bottles	A	В	с	D	E	F	G	H	1	J	Hold
1	IVANNA #2 47	-039-04892 UIC2	D03904892002	05/15/24	9	:45	fu		F 8	X	X	x	х	X	X			10	1.00000	
2	IVANNA #1 47	7-039-04844 UIC2	D03904844002		9:4	54-	f			×	x	x	x	x	x					
3	HF Lilly #1 47-	039-02262 UIC21	003902262003		9:9	154	-			×	x	x	x	x	x					
4													1				1			
5								e — —							24	050	999			
6														EN			rocheck of Vir			
7																	ar Charlestor	-		
8																				
9													3							
10													1							
	ler(s): Please Print	117 . 11	from	Shipr	nent Met	hod:	and Arrest Section	STD 10 Wk	Days		Vk Days	2 ₩	_} Other	100000	4 Hour	Ke	suns pue	vate:		
REIM	Wished by:	have -	Date: 5/15/24	Time:	Contraction and Contraction	d by:	1/20				Notes:				***		-grandante			0.01 (20194)
	uished by:	All a contraction of the contrac	Date:	Time:		d by (La	boratory):			-		lac	Packa	ae: (Che	ck Box	Below)	Treasure and		0.69450.	NOT DOM:
\sim					0						Cooler Tei	np			indard C	1 94 En 1	si isengin	TRE	P-Chec	klist
Logg	ed by (Laboratory)):	Date:	Time:	Checke	d by (Lai	ooratory):		5	1922			Lev	el III: Sto		aw Data		_	RP Level	
						SUPER						179	Lev	el IV: SV	V846 CLI	P-Like				
Prese	vative Key: 1-HCL	L 2-HNO3 3-H250	04 4-NaOH 5-Na2	25203 6-NaHSO4	7-Other	8-4 de	grees C 9-	5035				5 E .	Ot	her: _						

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

Copyright 2008 by ALS Laboratory Group

ALS Environmental

24050999

ENVIROCHECK- VA: Envirocheck of Virginia Project: WV UIC Wells near Charleston, WV

	Sample Receiving C	Checklist
Received by:		ZW.
Date/Time:		5.15.24 1306
Carrier Name:		<u>6.15.24 1306</u> <u>Client</u>
Shipping container/cooler in a	good condition?	Yes No / Not Present
Custody seals intact on shippi	ng container/cooler?	Yes / Nov Not Present
Custody seals intact on sampl	e bottles?	Yes / No Not Present
Chain of Custody present?		Yes) No
COC signed when relinquishe	ed and received?	Yes No
COC agrees with sample labe	ls?	(Yes) No
Samples in proper container/t	pottle?	Yes No
Sample containers intact?		Yes) No
Sufficient sample volume for	indicated test?	Yes/No
All samples received within h	olding time?	(Yes) No
All sample temperatures verif	ied to be in compliance?	Yes/No
Temperature(s) (°C):		_16°C
Thermometer(s):		IR.Gun
Sample(s) received on ice?		Yes
Matrix/Matrices:		ubler
Cooler(s)/Kit(s):		,
Date/Time sample(s) sent to s	storage:	
Trip Blanks included? (for vo	latile analysis only)	Yes / No N/A
Water – VOA vials have zero	headspace?	Yes / No No Vials
Water – pH acceptable upon	receipt?	Yes / No / N/A
pH strip lot #:		
pH adjusted (note adjustment	s below)?	Yes / No (N/A)
pH adjusted by:		
Login Notes:		

QA Control Number: Chklst Rev.03 11/4/2021



13-Jun-2024

JL Rhudy Envirocheck of Virginia 375 Mountain Lane Tazewell, VA 24651

Re: WV UIC Wells near Charleston, WV

Work Order: 24050999

Dear JL,

ALS Environmental received 1 sample on 17-May-2024 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Rebecca Kiser

Electronically approved by: Rebecca Kiser

Rebecca Kiser Project Manager

Report of Laboratory Analysis

Certificate No: WV: 355

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 13-Jun-24

_

Client:	Envirocheck of Virginia
Project:	WV UIC Wells near Charleston, WV
Work Order:	24050999

Work Order Sample Summary

Lab Samp ID	<u>Client Sample ID</u>	<u>Matrix</u>	Tag Number	Collection Date	Date Received Hold
24050999-01	IVANNA #2, IVANNA #1, HF Lilly #1 Composite	Liquid		5/15/2024 09:45	5/15/2024 13:06
24050999-01	IVANNA #2, IVANNA #1, HF Lilly #1 Composite	Liquid		5/15/2024 09:45	5/17/2024 08:00

Client:	Envirocheck of Virginia	
Project:	WV UIC Wells near Charleston, WV	Case Narrative
Work Order:	24050999	

Samples for the above noted Work Order were received on 05/17/2024. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Metals:

Batch 240950, Method SW6020B, Sample 24050999-01A: The reporting limit is elevated due to dilution for high concentrations of non-target analytes. Al

Wet Chemistry:

Batch R404425A, Method E300.0, Sample 24050999-01B: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference. Bromide

Date: 13-Jun-24

ALS Group, USA

-

Client:	Envirocheck of Virginia	QUALIFIERS ,
Project:	WV UIC Wells near Charleston, WV	ACRONYMS, UNITS
WorkOrder:	24050999	

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
а	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND O	Not Detected at the Reporting Limit Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Х	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
cronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count

Units Reported Description as noted

А

D

Е

SW

mg/L	Milligrams per Liter
none	
s.u.	Standard Units

ASTM

EPA

APHA Standard Methods

SW-846 Update III

Client: Envirocheck of Virginia

Project:	WV UIC Wells near Charleston, WV						
Sample ID:	IVANNA #2, IVANNA #1, HF Lilly #1 Composite						
Collection Date:	5/15/2024 09:45 AM						

Work Order: 24050999 Lab ID: 24050999-01 Matrix: LIQUID

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Meth	od: SW6020B		Prep: SW3	015A / 5/28/24	Analyst: STP
Aluminum	U		0.057	0.10	mg/L	10	5/29/2024 01:57
Arsenic	0.29		0.0019	0.050	mg/L	10	5/29/2024 01:57
Barium	410		0.57	5.0	mg/L	1000	5/29/2024 17:53
Calcium	21,000		220	500	mg/L	1000	5/29/2024 17:53
Iron	88		0.47	0.80	mg/L	10	5/29/2024 01:57
Manganese	4.8		0.017	0.050	mg/L	10	5/29/2024 01:57
Sodium	61,000		130	200	mg/L	1000	5/29/2024 17:53
Strontium	730		0.39	5.0	mg/L	1000	5/29/2024 17:53
ANIONS BY ION CHROMATOGRAPHY		Meth	od: E300.0				Analyst: CLJ
Bromide	U		1,300	8,000	mg/L	40000	5/23/2024 13:14
Chloride	171,000		12,000	40,000	mg/L	40000	5/23/2024 13:14
Sulfate	U		30	160	mg/L	160	5/22/2024 16:40
SPECIFIC GRAVITY		Meth	od: D5057-90				Analyst: MTK
Specific Gravity	1.17		0		none	1	5/23/2024 10:15
TOTAL DISSOLVED SOLIDS		Meth	od:A2540 C-1	5	Prep: FILTE	ER / 5/21/24	Analyst: LAD
Total Dissolved Solids	220,000		1,100	1,500	mg/L	1	5/24/2024 11:13

Note: See Qualifiers page for a list of qualifiers and their definitions.

1 /	
Client:	Envirocheck of Virginia
Work Order:	24050999
Project:	WV UIC Wells near Charleston, WV

QC BATCH REPORT

Batch ID: 240950

Instrument ID ICPMS3

Method: SW6020B

MBLK	Sample ID: MBLK-240950-240950					Units: mg/L			Analysis Date: 5/29/2024 01:21 AM				
Client ID:		Run ID: ICP	MS3_240	528A	Seq	No: 1080	8428	Prep Date: 5/28	Prep Date: 5/28/2024				
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Aluminum	0.005757	0.0057	0.010								J		
Arsenic	U	0.00019	0.0050										
Barium	U	0.00057	0.0050										
Calcium	U	0.22	0.50										
Iron	U	0.047	0.080										
Manganese	U	0.0017	0.0050										
Sodium	0.1817	0.13	0.20								J		
Strontium	U	0.00039	0.0050										
LCS	Sample ID: LCS-240950	-240950			Ur	nits: mg/L	-	Analysi	s Date: 5 /	29/2024 0	1:22 AN		
Client ID:		Run ID: ICP	MS3_240	528A	Seq	No: 1080	8429	Prep Date: 5/28	/2024	DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
Aluminum	0.09723	0.0057	0.010	0.1	0	97.2	80-120	0					
Araania	0.0075	0.00040	0.0050	0.4	0	07.5	00 400	٥					

Arsenic	0.0975	0.00019	0.0050	0.1	0	97.5	80-120	0
Barium	0.106	0.00057	0.0050	0.1	0	106	80-120	0
Calcium	10.35	0.22	0.50	10	0	104	80-120	0
Iron	9.775	0.047	0.080	10	0	97.8	80-120	0
Manganese	0.09409	0.0017	0.0050	0.1	0	94.1	80-120	0
Sodium	10.25	0.13	0.20	10	0	103	80-120	0
Strontium	0.09986	0.00039	0.0050	0.1	0	99.9	80-120	0

MS	Sample ID: 24050271-01	Units: mg/L				Analysis Date: 5/29/2024 01:29 AN			1:29 AM			
Client ID:		Run ID: ICP	Seq	Prep Date: 5/28/2024			DF: 1					
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	F	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.6318	0.0057	0.010	0.1	0.4834	148	75-125		0			SO
Arsenic	0.09713	0.00019	0.0050	0.1	0.000847	96.3	75-125		0			
Barium	0.1207	0.00057	0.0050	0.1	0.0171	104	75-125		0			
Calcium	88.44	0.22	0.50	10	81.86	65.9	75-125		0			SO
Iron	21.1	0.047	0.080	10	12.03	90.7	75-125		0			
Manganese	10.11	0.0017	0.0050	0.1	10.33	-224	75-125		0			SEO
Sodium	71.89	0.13	0.20	10	65.83	60.6	75-125		0			SO
Strontium	0.3837	0.00039	0.0050	0.1	0.2979	85.8	75-125		0			

Batch ID: 240950	Instrument ID ICPMS3 Method: SW6020B												
MSD	Sample ID: 24050271-01	Ur	its: mg/L		Analysis	Analysis Date: 5/29/2024 01:31 AM							
Client ID:		Seq	No: 1080	8434	Prep Date: 5/28/	rep Date: 5/28/2024							
Analyte	Result	MDL	MDL PQL SPK Val			Control %REC ^{Limit}		RPD Ref Value	%RPD	RPD Limit	Qual		
Aluminum	0.6243	0.0057	0.010	0.1	0.4834	141	75-125	0.6318	1.2	20	SO		
Arsenic	0.09515	0.00019	0.0050	0.1	0.000847	94.3	75-125	0.09713	2.06	20			
Barium	0.1181	0.00057	0.0050	0.1	0.0171	101	75-125	0.1207	2.18	20			
Calcium	87.98	0.22	0.50	10	81.86	61.3	75-125	88.44	0.52	20	SO		
Iron	21.01	0.047	0.080	10	12.03	89.8	75-125	21.1	0.428	20			
Manganese	10.18	0.0017	0.0050	0.1	10.33	-149	75-125	10.11	0.735	20	SEO		
Sodium	71.88	0.13	0.20	10	65.83	60.6	75-125	71.89	0.0061	20	SO		
Strontium	0.3831	0.00039	0.0050	0.1	0.2979	85.2	75-125	0.3837	0.156	20			

The following samples were analyzed in this batch:

24050999-01A

Client: Envirocheck of Virginia Work Order: 24050999 **Project:** WV UIC Wells near Charleston, WV

QC BATCH REPORT

Batch ID: 240600	Instrument ID TDS		Ν	lethod:	A2540	C-15						
MBLK	Sample ID: MBLK-24060	0-240600		Units: mg/L				Analysis Date: 5/24/2024 11:13 A				
Client ID:		Run ID: TDS	Run ID: TDS_240524B			Seq	No: 1079	7079	Prep Date: 5/2	DF: 1		
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL :	SPK Val	Val	ue	%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	is U	22	30									
MBLK	Sample ID: MBLK-24060	0-240600			Units: mg/L				Analy	24/2024 11:13 A		
Client ID:		Run ID: TDS	Run ID: TDS_240524B			Seq	No: 1080	6952	Prep Date: 5/2	DF: 1		
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Val	ue	%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	ls U	22	30									
LCS	Sample ID: LCS-240600-	240600				Un	its: mg/L		Analy	sis Date: 5/	24/2024 1	1:13 AM
Client ID:		Run ID: TDS_240524B			SeqNo: 10797078				Prep Date: 5/2	DF: 1		
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL :	SPK Val	Val	ue	%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	ds 494	22	30	495		0	99.8	85-109	()		
LCS	Sample ID: LCS-240600-	240600				Un	its: mg/L		Analy	sis Date: 5/	24/2024 1	1:13 AI
Client ID:	Run ID: TDS_240524B				SeqNo: 10806953			6953	Prep Date: 5/2	DF: 1		
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL :	SPK Val	Val		%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	ds 494	22	30	495		0	99.8	85-109	()		
DUP	Sample ID: 24050953-06	A DUP				Un	its: mg/L		Analy	sis Date: 5 /	24/2024 1	1:13 AM
Client ID:		Run ID: TDS	2405248	3	SeqNo: 10797062			7062	Prep Date: 5/2	DF: 1		
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL :	SPK Val	Val	ue	%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	ds 676.7	37	50	0		0	0	0-0	663.3	3 1.99	10	
DUP	Sample ID: 24051142-01	B DUP				Un	its: mg/L		Analy	sis Date: 5/	24/2024 1	1:13 AM
Client ID:	ent ID:		Run ID: TDS_240524B			Seq	No: 1079	7075	Prep Date: 5/2	1/2024	DF: 1	
					SPK	Ref		Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL :	SPK Val	Val		%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid	ds 3210	110	150	0		0	0	0-0	3240) 0.93	10	
DUP	Sample ID: 24051142-01	B DUP				Un	its: mg/L		Analy	sis Date: 5/	24/2024 1	1:13 AI
Client ID:		Run ID: TDS_240524B				SeqNo: 10806955			Prep Date: 5/2	DF: 1		
					SPK			Control	RPD Ref		RPD	
Analyte	Result	MDL	PQL	SPK Val	Val		%REC	Limit	Value	%RPD	Limit	Qual
Total Dissolved Solid		110	150	0		0	0	0-0	3240		10	

QC BATCH REPORT

Batch ID: R404326A Instrument ID IC3 Method: E300.0

MBLK	Sample ID: MBLK-A-R40	4326A		Ur	its: mg/L		Analysi	s Date: 5/ 2	22/2024 0	9:26 AM	
Client ID:		Run ID: IC3_	240522A	Seq	No: 1079	0004	Prep Date:		DF: 1		
				SPK Ref		Control	RPD Ref		RPD		
Analyte	Result	MDL	PQL SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual	
Sulfate	U	0.19	1.0								
LCS	Sample ID: LCS-A-R4043	26A		Ur	its: mg/L		Analysi	s Date: 5/ 2	22/2024 0	9:16 AN	
Client ID:		Run ID: IC3_	240522A	Seq	No: 1079	0003	Prep Date:		DF: 1		
Analyte	Result	MDL	PQL_SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfate	9.855	0.19	1.0 10	0		90-110	0				
MS	Sample ID: 24051056-05G MS			Ur	its: mg/L		Analysi	Analysis Date: 5/22/20			
Client ID:		Run ID: IC3_	240522A	Seq	No: 1079	0006	Prep Date:		DF: 40		
Analyte	Result	MDL	PQL_SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Sulfate	473.9	7.6			_	90-110	0			Quai	
	475.5	7.0	40 400	57.83	104	90-110	0				
MS			40 400				-	s Date: 5/	22/2024 0	5:00 PN	
	Sample ID: 24051160-01/			Ur	nits: mg/L		-	s Date: 5 /2	22/2024 0 DF: 10		
MS Client ID:		MS		Ur Seq	iits: mg/L	0022	Analysi Prep Date:	s Date: 5 /;	DF: 10		
Client ID:		MS		Ur	iits: mg/L		Analysi	s Date: 5 /; %RPD			
Client ID: Analyte	Sample ID: 24051160-01	AMS Run ID: IC3_:	240522A	Ur Seq SPK Ref	nits: mg/L No: 1079 %REC	0022 Control	Analysi Prep Date: RPD Ref		DF: 10 RPD	0	
Client ID: Analyte Sulfate	Sample ID: 24051160-01A Result	A MS Run ID: IC3_; MDL 19	240522A PQL SPK Val	SPK Ref Value 931.8	nits: mg/L No: 1079 %REC	0022 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0		DF: 10 RPD Limit	0 Qual	
Client ID: Analyte Sulfate MSD	Sample ID: 24051160-01 Result 1952	A MS Run ID: IC3_; MDL 19	240522A PQL SPK Val 100 1000	Ur Seq SPK Ref Value 931.8 Ur	nits: mg/L No: 1079 <u>%REC</u> 102	0022 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0	%RPD	DF: 10 RPD Limit	0 Qual 2:33 PM	
Client ID: Analyte Sulfate MSD	Sample ID: 24051160-01 Result 1952	MS Run ID: IC3_ MDL 19 G MSD	240522A PQL SPK Val 100 1000	SPK Ref Value 931.8 Ur Seq	nits: mg/L No: 1079 <u>%REC</u> 102 nits: mg/L	0022 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0 Analysi	%RPD	DF: 10 RPD Limit	0 Qual 2:33 PM	
Client ID: Analyte Sulfate MSD Client ID:	Sample ID: 24051160-01 Result 1952	MS Run ID: IC3_ MDL 19 G MSD	240522A PQL SPK Val 100 1000	Ur Seq SPK Ref Value 931.8 Ur	nits: mg/L No: 1079 <u>%REC</u> 102 nits: mg/L	0022 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date:	%RPD	DF: 10 RPD Limit 22/2024 0 DF: 40	0 Qual 2:33 PM	
Client ID: Analyte Sulfate MSD Client ID: Analyte	Sample ID: 24051160-01/ Result 1952 Sample ID: 24051056-050	MS Run ID: IC3_ MDL 19 G MSD Run ID: IC3_	240522A PQL SPK Val 100 1000 240522A	SPK Ref Value 931.8 SPK Ref SPK Ref	itts: mg/L No: 1079 %REC 102 itts: mg/L No: 1079	0022 Control Limit 90-110 0007 Control	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date: RPD Ref	%RPD s Date: 5 /;	DF: 10 RPD Limit 22/2024 0 DF: 40 RPD Limit	0 Qual 2:33 PM	
Client ID: Analyte Sulfate MSD Client ID: Analyte Sulfate	Sample ID: 24051160-01/ Result 1952 Sample ID: 24051056-050 Result	MS Run ID: IC3_: MDL 19 S MSD Run ID: IC3_: MDL 7.6	240522A PQL SPK Val 100 1000 240522A PQL SPK Val	SPK Ref Value 931.8 Ur Seq SPK Ref Value 57.83	iits: mg/L No: 1079 %REC 102 iits: mg/L No: 1079 %REC	0022 Control Joon 90-110 0007 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date: RPD Ref Value 473.9	%RPD s Date: 5 /; %RPD	DF: 10 RPD Limit 22/2024 0 DF: 40 RPD Limit 10	0 Qual 12:33 PN Qual	
Client ID: Analyte Sulfate MSD Client ID: Analyte Sulfate MSD	Sample ID: 24051160-01/ Result 1952 Sample ID: 24051056-050 Result 474.2	MS Run ID: IC3_: MDL 19 S MSD Run ID: IC3_: MDL 7.6	240522A PQL SPK Val 100 1000 240522A PQL SPK Val 40 400	SPK Ref Value 931.8 931.8 0r Seq SPK Ref Value 57.83	iits: mg/L No: 1079 %REC 102 iits: mg/L No: 1079 %REC 104	0022 Control Limit 90-110 0007 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date: RPD Ref Value 473.9	%RPD s Date: 5 /2 %RPD 0.0675	DF: 10 RPD Limit 22/2024 0 DF: 40 RPD Limit 10	0 Qual 2:33 PM Qual 5:10 PM	
Client ID: Analyte Sulfate MSD Client ID: Analyte Sulfate MSD Client ID:	Sample ID: 24051160-01/ Result 1952 Sample ID: 24051056-050 Result 474.2	A MS Run ID: IC3_: MDL 19 6 MSD Run ID: IC3_: MDL 7.6	240522A PQL SPK Val 100 1000 240522A PQL SPK Val 40 400	SPK Ref Value 931.8 931.8 0r Seq SPK Ref Value 57.83	iits: mg/L No: 1079 %REC 102 iits: mg/L %REC 104 iits: mg/L	0022 Control Limit 90-110 0007 Control Limit 90-110	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date: RPD Ref Value 473.9	%RPD s Date: 5 /2 %RPD 0.0675	DF: 10 RPD Limit 22/2024 0 DF: 40 RPD Limit 10 22/2024 0	0 Qual 2:33 PM Qual 5:10 PM	
	Sample ID: 24051160-01/ Result 1952 Sample ID: 24051056-050 Result 474.2 Sample ID: 24051160-01/	MS Run ID: IC3_: MDL 19 S MSD Run ID: IC3_: MDL 7.6 MSD Run ID: IC3_:	240522A PQL SPK Val 100 1000 240522A PQL SPK Val 40 400 240522A	SPK Ref Value 931.8 0r Seq SPK Ref Value 57.83 0r Seq	iits: mg/L No: 1079 %REC 102 iits: mg/L No: 1079 %REC 104 iits: mg/L No: 1079	0022 Control Joodor Control Limit 90-110 90-110 0023 Control	Analysi Prep Date: RPD Ref Value 0 Analysi Prep Date: 473.9 Analysi Prep Date: RPD Ref	%RPD s Date: 5 /: %RPD 0.0675 s Date: 5 /;	DF: 10 RPD Limit 22/2024 0 DF: 40 RPD Limit 10 22/2024 0 DF: 10 RPD Limit	0 Qual 2:33 PN Qual 5:10 PN 0	

Client:Envirocheck of VirginiaWork Order:24050999Project:WV UIC Wells near Charleston, WV

Batch ID: R404414 Instrument ID WETCHEM Method: D5057-90

DUP	Sample ID: 24051181-01A DUP				Ur	nits: none		Analys	sis Date: 5/ 2	23/2024 1	0:15 AM
Client ID:		Run ID: WET	CHEM_2	240523J	Seq	No: 1079	4305	Prep Date:		DF: 1	
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Gravity	1.005	0	0	0	0	0	0-0	1.005	5 0.01	20	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Batch ID: R404425A Instrument ID IC3 Method: E300.0 MBLK Sample ID: MBLK-A-R404425A Units: mg/L Analysis Date: 5/23/2024 10:54 AM Client ID: Run ID: IC3 240523A SeqNo: 10794619 Prep Date: DF: 1 RPD RPD Ref SPK Ref Control Limit Value Limit Value Analyte PQL SPK Val %REC %RPD Result MDL Qual Bromide U 0.032 0.20 Chloride U 0.31 1.0 LCS Sample ID: LCS-A-R404425A Units: mg/L Analysis Date: 5/23/2024 10:45 AM Client ID: Run ID: IC3 240523A SeqNo:10794618 Prep Date: DF: 1 SPK Ref RPD Ref RPD Control Value Limit Value Limit MDL PQL SPK Val %REC %RPD Analyte Result Qual Bromide 2.106 0.032 0.20 2 0 105 90-110 0 Chloride 9.918 0.31 10 0 99.2 90-110 0 1.0 MS Sample ID: 24051070-01B MS Units: mg/L Analysis Date: 5/23/2024 01:33 PM Client ID: Run ID: IC3 240523A SeqNo: 10794628 Prep Date: DF: 400 RPD RPD Ref SPK Ref Control Value Limit Value Limit MDL PQL SPK Val %REC %RPD Qual Analyte Result Bromide 0 0 805.6 13 80 800 101 90-110 Chloride 3870 120 400 4000 88.52 94.5 90-110 0 MS Sample ID: 24051246-01A MS Units: mg/L Analysis Date: 5/23/2024 03:21 PM Client ID: Run ID: IC3 240523A SeqNo: 10794639 Prep Date: DF: 10 RPD SPK Ref RPD Ref Control Value Limit Value Limit Analyte Result MDL PQL SPK Val %REC %RPD Qual Bromide 20.24 0.32 2.0 20 0 101 90-110 0 Chloride 125.6 100 3.1 10 30.27 95.3 90-110 0 MSD Sample ID: 24051070-01B MSD Units: mg/L Analysis Date: 5/23/2024 01:43 PM Client ID: Run ID: IC3_240523A SeqNo: 10794629 Prep Date: DF: 400 RPD SPK Ref Control RPD Ref Value Limit Value Limit MDL PQL SPK Val %REC %RPD Analyte Result Qual 0.727 Bromide 800 0 811.5 13 80 101 90-110 805.6 10 Chloride 0.124 3875 120 400 4000 88.52 94.6 90-110 3870 10 MSD Analysis Date: 5/23/2024 03:30 PM Sample ID: 24051246-01A MSD Units: mg/L Client ID: Run ID: IC3_240523A SeqNo:10794640 Prep Date: DF: 10 SPK Ref RPD Ref RPD Control Limit Value Limit Value %RPD Analyte Result MDL PQL SPK Val %REC Qual Bromide 20.11 0.32 2.0 0 0.654 20 101 90-110 20.24 10 Chloride 0.0374 125.5 30.27 90-110 125.6 10 3.1 10 100 95.3

The following samples were analyzed in this batch:

24050999-01B

AL	Subcontractor: ALS Environmental 3352 128th Avenue Holland, MI 49424 Salesperson	- Holland ALSHN	FAX: (i Acct #:	616) 399-6070 616) 399-6185	50			Envirocheck o	f Virginia			łD	Date: COC II Due Da	D: <u>2</u>	<u>5-May-24</u> 5 <u>817</u> 2 4-May-24
С	ustomer Information		Pro	oject Informa	ition	Tur		٣٥	rameter/	wemoa	Reques	t for Ana	alysis		
Purchase Order		Project Name 24050999			A	Total Diss	olved So	lids (A25	540 C-15	5)					
Work Order		Proje	roject Number			В	Specific G	iravity (D	5057-90)					
Company Name	ALS Group USA, Corp	Bill 1	Bill To Company ALS		USA, Corp	C	Anions by	lon Chr	omatogra	phy (E3	00.0)				
Send Report To	Rebecca Kiser	Inv A	Inv Attn Ad		ayable	D Metals by ICP-MS (SW6020B)									
Address	1740 Union Carbide Dr.	Addı	Address 1		Carbide Dr.	E									
City/State/Zip	So. Charleston, WV 25303	City/	State/Zip	So. Charlest	on, WV 25303	G									
Phone	(304) 356-3168	Phor	ne	(304) 356-3	168	н									
Fax		Fax				1									
eMail Address	rebecca.kiser@alsglobal.com	eMai	il CC			J									
ALS Sample ID	Client Sample ID	Matrix	Collection	Date 24hr	Bottle	1	A B	С	D	E	F	G	H	1	J
24050999-01A	IVANNA #2 #3 HF Lilly #1 Grab	Liquid	15/May/20	024 9:45	(1) 250PHNO3				x						1
	IVANNA #2 #3 HF Lilly #1 Grab	Liquid	15/May/20)24 9:45	(1) 125PNEAT			X			1				
	IVANNA #2 #3 HF Lilly #1 Grab	Liquid	15/May/20)24 9:45	(1) 125PNEAT		X								
	IVANNA #2 #3 HF Lilly #1 Grab	Liquid	15/May/20	24 9:45	(2) 250PNEAT	5	x	1			[

-Comments:

WV Samples San	mpler: C.C.				
Michelle Holms	5,16.24 1400	Califordiant	G-17-24 Bivo		
Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
Relinquished by:	Date/Time	Received by:	Date/Time	AUSTW	Std
				_PH37	

ALS Group, USA Holland, Michigan

Contacted By:

Sample Receipt Checklist

Client Name: ENVIROCHECK- VA		Date/Time	Received: <u>15-May-</u>	<u>24 14:46</u>
Work Order: 24050999		Received b	y: <u>CMK</u>	
Checklist completed by Caleb Koetje	18-May-24 Date	Reviewed by:	Rebecca Kiser	20-May-24
Matrices: <u>Water</u> Carrier name: <u>Courier</u>				
Shipping container/cooler in good condition?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗸	No 🗌	Not Present	
Custody seals intact on sample bottles?	Yes	No 🗌	Not Present	
Chain of custody present?	Yes 🔽	No 🗌		
Chain of custody signed when relinquished and received	? Yes 🗸	No 🗌		
Chain of custody agrees with sample labels?	Yes 🗸	No 🗌		
Samples in proper container/bottle?	Yes 🗸	No 🗌		
Sample containers intact?	Yes 🔽	No 🗌		
Sufficient sample volume for indicated test?	Yes 🔽	No 🗌		
All samples received within holding time?	Yes 🗸	No 🗌		
Container/Temp Blank temperature in compliance?	Yes 🗸	No 🗌		
Sample(s) received on ice? Temperature(s)/Thermometer(s):	Yes ⊻ < <u>6.0c</u>	No 🗌	Df2	
Cooler(s)/Kit(s):				
Date/Time sample(s) sent to storage: Water - VOA vials have zero headspace?	5/18/2024 8 Yes	3:20:09 AM No	No VOA vials submitte	d 🔽
Water - pH acceptable upon receipt?	Yes 🗹	No 🗌	N/A	
pH adjusted?	Yes	No 🗹		_
pH adjusted by:	-			
Login Notes: <u>pH check <2</u>				
Client Contacted: Date C	ontacted:	Person	Contacted:	

Regarding:

Comments:		
CorrectiveAction:		



Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

June 10, 2024

Ms. Rebecca Kiser ALS Environmental 1740 Union Carbide Drive Charleston, WV 25303

RE: Project: 24050999 Pace Project No.: 30685737

Dear Ms. Kiser:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

(Olo -

Carla Cmar carla.cmar@pacelabs.com (724)850-5600 Project Manager

Enclosures





Pace Analytical Services, LLC 1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

CERTIFICATIONS

Project:	24050999
Pace Project No.:	30685737

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601 ANAB DOD-ELAP Rad Accreditation #: L2417 ANABISO/IEC 17025:2017 Rad Cert#: L24170 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California Certification #: 2950 Colorado Certification #: PA01547 Connecticut Certification #: PH-0694 EPA Region 4 DW Rad Florida/TNI Certification #: E87683 Georgia Certification #: C040 **Guam Certification** Hawaii Certification Idaho Certification **Illinois Certification** Indiana Certification Iowa Certification #: 391 Kansas Certification #: E-10358 Kentucky Certification #: KY90133 KY WW Permit #: KY0098221 KY WW Permit #: KY0000221 Louisiana DHH/TNI Certification #: LA010 Louisiana DEQ/TNI Certification #: 04086 Maine Certification #: 2023021 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235 Montana Certification #: Cert0082 Nebraska Certification #: NE-OS-29-14 Nevada Certification #: PA014572023-03 New Hampshire/TNI Certification #: 297622 New Jersey/TNI Certification #: PA051 New Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249 Oregon/TNI Certification #: PA200002-015 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282 South Dakota Certification Tennessee Certification #: TN02867 Texas/TNI Certification #: T104704188-22-18 Utah/TNI Certification #: PA014572223-14 USDA Soil Permit #: 525-23-67-77263 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Approve List for Rad



SAMPLE SUMMARY

30685737001	24050999-01E	Water	05/15/24 09:45	05/17/24 09:15
Lab ID	Sample ID	Matrix	Date Collected	Date Received
Pace Project No	.: 30685737			
Project:	24050999			



SAMPLE ANALYTE COUNT

 Project:
 24050999

 Pace Project No.:
 30685737

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30685737001	24050999-01E	EPA 900.0	KET	2	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



PROJECT NARRATIVE

 Project:
 24050999

 Pace Project No.:
 30685737

Method: EPA 900.0

Description:900.0 Gross Alpha/BetaClient:ALS Life Sciences Division | EnvironmentalDate:June 10, 2024

General Information:

1 sample was analyzed for EPA 900.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



PROJECT NARRATIVE

 Project:
 24050999

 Pace Project No.:
 30685737

Method: EPA 903.1

Description:903.1 Radium 226Client:ALS Life Sciences Division | EnvironmentalDate:June 10, 2024

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:



PROJECT NARRATIVE

 Project:
 24050999

 Pace Project No.:
 30685737

Method: EPA 904.0

Description:904.0 Radium 228Client:ALS Life Sciences Division | EnvironmentalDate:June 10, 2024

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 24050999

Pace Project No.: 30685737

Sample: 24050999-01E PWS:	Lab ID: 30685 Site ID:	5737001 Collected: 05/15/24 09:45 Sample Type:	Received:	05/17/24 09:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Gross Alpha	EPA 900.0	6,860 ± 1,674 (1,220) C:NA T:NA	pCi/L	06/06/24 18:40) 12587-46-1	
Gross Beta	EPA 900.0	2,572 ± 832 (984) C:NA T:NA	pCi/L	06/06/24 18:40) 12587-47-2	
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 903.1	2,258 ± 362 (123) C:NA T:97%	pCi/L	06/02/24 15:5	1 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 904.0	1,040 ± 199 (50.8) C:83% T:88%	pCi/L	05/31/24 12:40) 15262-20-1	



QUALITY CONTROL - RADIOCHEMISTRY

Project: 24050999				
Pace Project No.: 30685737				
QC Batch: 670510	Analysis Method:	EPA 903.1		
QC Batch Method: EPA 903.1	Analysis Description:	903.1 Radium-226		
	Laboratory:	Pace Analytical Services - Greensburg		
Associated Lab Samples: 3068573	7001			
METHOD BLANK: 3265294	Matrix: Water			
Associated Lab Samples: 3068573	7001			
Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.123 ± 0.282 (0.167) C:NA T:83%	pCi/L	06/02/24 15:26	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL - RADIOCHEMISTRY

Project:	24050999					
Pace Project No.:	30685737					
QC Batch:	671212	Analysis Method:	EPA 900.0			
QC Batch Method:	EPA 900.0	Analysis Description	900.0 Gross Alpha/Beta			
		Laboratory:	Laboratory: Pace Analytical Services - Greensburg		g	
Associated Lab Sat	mples: 30685737	7001				
METHOD BLANK:	3268536	Matrix: Water				
Associated Lab Sa	mples: 30685737	7001				
Para	meter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Gross Alpha		0.066 ± 1.04 (2.69) C:NA T:NA	pCi/L	06/07/24 08:18		
Gross Beta		-0.505 ± 1.06 (2.75) C:NA T:NA	pCi/L	06/07/24 08:18		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL - RADIOCHEMISTRY

Project: 24050999				
Pace Project No.: 30685737				
QC Batch: 670511	Analysis Method:	EPA 904.0		
QC Batch Method: EPA 904.0	Analysis Description:	904.0 Radium 2	228	
	Laboratory:	Pace Analytical	Services - Greensbu	rg
Associated Lab Samples: 3068573	7001			
METHOD BLANK: 3265295	Matrix: Water			
Associated Lab Samples: 3068573	7001			
Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.581 ± 0.437 (0.858) C:74% T:78%	pCi/L	05/31/24 12:37	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:	24050999
Pace Project No.:	30685737

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

41		-1				1	1	1	1		1						8			
16-May-24	0700															^		Received by Pace Greensburg Them ID Corr Factor +/ Receipt Temp Corrected Temp Correct Preservation (Y) N		
ċ	;	Jaic														-		sceived by Pace Greensbu em ID Corr Factor +I- Receipt Temp Corrected Temp Correct Preservation() N	C Level	
Date:	Duo Dato:	DUC			alysis											Т		Preser	Report/QC Level Std	
					t for An											U		Received by Pace Them ID Con Receipt Temp Corrected Tem Correct Preserv		
60					Reques											u.		A C C C C C C C C C C C C C C C C C C C		
V BI					Method	ita										ш			Cooler IDs	
		Page 1 of 1			Parameter/Method Request for Analysis	alpha/be	-									٥			ပို	
SUS.	Ċ				Pai	Ra226/228, Gross alpha/beta										υ		S		
P-O					-	226/228										۵		240	ime	Time
CHAIN-OF-CUSTODY RECORD						A Ra:	В	υ	٥	ш	ш	ს	н	S.F.	ر د ا	∢	X	SIPIzyais	Date/Time	Date/Time
GHA																0	NO3		-	
								, Corp	ole			Holland, Michigan 49424				Bottle	(4) 1LPHNO3	C,		
	600		[rmation	66		ALS Group USA, Corp	Accounts Payable	3352 128th Ave		, Michiga	9-6070	9-6185		노		Ø		
	(724) 850-5600				Project Information	24050999		ALS Gr	Accoun	3352 12		Holland	(616) 399-6070	(616) 399-6185		Collection Date 24hr	15/May/2024 9:45	h	Received by:	Received by:
			#	t	Pro	Je	nber	pany				đ				lection	5/May/20		Receiv	Receiv
	TEL:	FAX:	Acct #:	Accoun		Project Name	Project Number	To Company	Inv Attn	Address		City/State/Zip	ne		ail CC		1	37		
, Inc.				ALSHN Account	East Section	Pro	Pro	Bill To	Inv	Adc		City	Phone	Fax	eMail	Matrix	Liquid	857	0	a
Subcontractor: Pace Analytical Services, Inc.	vn Rd		A 15601	-								4			com				Datc/Time	Date/Time
Subcontractor: Pace Analytical S	1638 Roseytown Rd	Suites 2,3 & 4	Greensburg, PA 15601	Salesperson	tion			A, Corp				Holland, Michigan 49424			rebecca.kiser@alsglobal.com	ple ID	NNA #1	: 33 : 33 : 33 : 33 : 33 : 33 : 33 : 3		
Subc	1638	Suite	Gree	Sale	Informat			ALS Group USA, Corp	Rebecca Kiser	3352 128th Ave		d, Michig	(616) 399-6070	(616) 399-6185	i.kiser@a	Client Sample ID	#2, IVA	WV Sample.		
	and the second se	-			Customer Information			ALS G	Rebecc	3352 1:		Hollan	(616) 3	(616) 3	rebeccé	Cli	IVANNA #2, IVANNA #1,			
					CL	Drder		Vame	ort To			Zip			ess				ed by:	ed by:
	C. Martin		>			Purchase Order	Work Order	Company Name	Send Report To	Address		City/State/Zip	Phone	×	eMail Address	ALS Sample ID	24050999-01E	Comments:	Relinquished by	Refinquished by:
					-	Pu	Š	S	Se	Ad		ö	F	Fax	eN	M	24	č	2.1	

	DC#_Title: ENV-FRM- Greensburg	GBU	R-00	88 v(7_Sample (WO	#:306	585737			
Basa	-					PM: C		Due Date: 06	/10/24		
-Talt	Effective Date: 01/04/2024					CLIEN	T: ALS-WV				
Client Name:	ALS				Р		<u></u>				
a i Arad	Ex 🛛 UPS 🗆 USPS 🗆 Client r: _7764 Z004		merc	ial 🗆 I	Pace 🗌 Other			Initial / Date			
Courier: E Fed	7764 2004	9	07	4			Examined B	Y:275-17-2	9		
							Labolad By:	55-17-2	4		
Custody Seal on	Custody Seal on Cooler/Box Present: If Yes No Seals Intact: If Yes No Labeled By: If Seals Thermometer Used: Type of Ice: Wet Blue None Temped By: Image: Content of the seals										
Thermometer Used:											
Cooler Tempera	ture: Observed Temp		°C	Corre			_ 0				
Temp should be above	re freezing to 6°C				pH paper Lot	#	D.P.D. Resid	lual Chlorine Lot #			
Commenter		Yes	No	NA	10DZ9.	31		-			
Comments:	Drecont		1		1.						
Chain of Custody Chain of Custody		1	1		2.						
-Were client	corrections present on GOC	-		2					_		
Chain of Custody					3.				4		
	Signature on COC:		/	1	4.				-		
Sample Labels ma		/			5.			age	-		
-Includes dat	e/time/ID										
Matrix:	WT								-		
Samples Arrived	within Hold Time:	/			6.				-		
Short Hold Time			/		7.						
remaining):			-		8.				1		
	d Time Requested:	7	/		9.				-		
Sufficient Volume		1			10.				1		
Correct Container -Pace Contair		_	~		10.]		
		/			11.						
Containers Intact: Orthophosphate f		_			12.				_		
Unthophosphate i	amples field filtered:			/	13.				_		
Organic Samples	hecked for dichlorination			1	14:				4		
Filtered volume re	ceived for dissolved tests:			/	15:				4		
	cked for preservation:	/			16.				-		
	DA, coliform, TOC, O&G,	-			pH<	7					
Phenolics, Rad	lon, non-aqueous matrix				1	-			-		
All containers me	et method preservation				Initial when completed		Date/Time of Preservation				
requirements					Lot# of added						
Race D. Headson	ace in VOA Vials (> 6mm)	-	/	Preservative			1]			
1				/	18.						
the second s	24.1: Headspace in VOA Vials (0mm) Radon: Headspace in RAD Vials (0mm)								1		
Trip Blank Present	This black suctody coal present? YES or NO										
	ened <.05 mrem/hr.	7			Initial when ps	Date	117124	Survey Meter SN: 250143	80		
Comments:							- 				

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen. Qualtrax ID: 55680

DC#_Title: ENV-FRM-GBUR-0072 v04_Sample Container Count Offshore Projects Effective Date: 04/18/2024

24050999 ALS lient ite

5 Page

5573

Profile/EZ L

)	S
	ofe
	ž
1	



)	
1	
÷ .	
	-0
2	0,
ř.,	es
	-
	0
i i	-
	-

- 63		
	0.004000	
>	tes	
S	(1)	
	<u> </u>	
	0	
	~	
	1	
	(Changes)	
e - 1		

00400	
Login Number	otes

	NZd	в										
	ULDE		T		-							
	UIDI				T	Ι						
	D NOZ			\top		T		Γ				
	SGN G	<u> </u>			\square	Γ						
	BUDE	5			$\left \right $							
	ZPLC	2										
	Nekn		\vdash	\square	·		\square					
	NGEN	+	\vdash	-		\square						
	NAAK	+		\vdash	$\left \right $	1	\square					
	n69/	+	\vdash	\square			T					
Viale		-		\square	1		\square					
15	H69A		-									
	S650		\square				·					
	BP3U											
	SP3S	-	\vdash									
	BP3N	-										
			-			-			·			
Plastic	BP2U		-		•							
	SZ48		-		-							
	U198	-										
	NIda	-										
\vdash	VG21											
ss												
Gla	VG3N			-								
Amber Glass	SED4											
	НГЭА											
	Matrix	FM								8		
8	sample Line Item	N 100										

Container Codes

Glass	DG9S 40mL amber VOA vial H2SO4	VG9U 40mL clear VOA vial	VG9T 40mL clear VOA vial Na Thiosulfate	VG9H 40mL clear VOA vial HCI	JGFU 4oz amber wide jar	VGFU 4oz wide jar unpreserved	BG2U 500mL clear glass unpreserved	AG2U 500mL amber glass unpreserved	WGKU 8oz wide jar unpreserved	GN General	-
Gla	GJN 1 Gallon Jug with HNO3 DG	AG5U 100mL amber glass unpreserved VG	AG5T 100mL amber glass Na Thiosulfate VG	GJN 1 Gallon Jug VG	AG1S 1L amber glass H2SO4 JG	AG1H 1L amber glass HCI W(AG1T 1L amber glass NA Thiosulfate BG	BG1U 1L clear glass unpreserved AC	AG3S 250mL amber glass H2SO4 W	AG3U 250mL amber glass unpreserved Gl	

•	E71 ISA Enrore	37 le Solid	ab	Due Date: 05/10/24 39			ISL ISolid	OL Non-Ag Liguid	WP Wipe		
Plastic/Misc.	1 gallon cubitainer	2 JO#: 306857		- PM: CMC Due Dat	- CLIENT: ALS-WV	20	250mL plastic HNU3	250mL plastic unpreserved	250mL plastic NAOH	500mL plastic H2SO4	500mL plastic unpreserved
	GCUB 1	12GN 11	SP5T 1	BP1N 1	BP1U 1	BP3S 2	BP3N 2	BP3U 2	BP3B 2	BP2S E	BP2U



Section 10 – Monitoring

UIC 2D0394892

Section 10 – Monitoring

Monitoring of all injection parameters shall be logged during manned site activity and with the assistance of on-site monitoring devices.

Monitoring consists of all parameters necessary to record and report the state required records. These parameters include:

- Disposal station records to ensure the integrity of all tanks, containment, equipment, and manifolds/lines including
 - Filter maintenance
 - Walk around inspections conducted during on-site presents
- Well monitoring
 - Operating hours
 - Injection fluid volumes for total and cumulative injected fluid and flow rate
 - Annulus injection pressures for operational and shut in activity
 - Date specific walk around inspection activity

Documentation of thorough tank inspections exist per the company's scheduled tank inspection procedures.

WR-40s shall be completed and filed in accordance with state regulations and kept on file at the district office to be made available upon request.

Fluid manifest shall be completed documenting every load of fluid delivered to the facility for disposal. These manifests will be kept on file at the district office to be made available upon request and shall report the following:

- Operator
- Date
- Hauler's name with signature
- Receiver's name and signature / initials
- Source well name and API identification
- Amount of fluid in barrel units

Manifest signature acknowledges that responsible person certifies that the contents of each shipment are Class II fluids that were brought to the surface in connection with oil or natural gas production.

Injectate sampling is performed in accordance with the requirements and parameters set forth in the permit.



Section 11 – Groundwater Protection Plan

UIC 2D0394892

4703904892

APPENDIX H

GROUNDWATER PROTECTION PLAN

Facility Name: WC Booker #1

County: Kanawha

Facility Location:

Postal Ser	vice Address:	588 Equine Dr,	Elkview, WV 25071
Latitude:	38.460666		Longitude: -81.488105

Contact Information:

Person: Lisa Raffle					
Phone Number: 724-579-2320					
E-mail Address:	lraffle@dgoc.com				

Date: <u>10/29/2024</u>

1. A list of all operations that may contaminate the groundwater.

CONTAMINATION WOULD MOST LIKELY OCCUR FROM A LEAK OR FAILURE OF THE UIC. SPILLS ON-SITE WOULD MOST LIKELY BE THE RESULT OF THE FAILURE OF TANKS OR LIQUIDS UNLOADING OPERATIONS. SECONDARY CONTAINMENT STRUCTURES ARE IN PLACE TO LIMIT THE IMPACTED AREA. INSPECTIONS AND CONTINUED MAINTENANCE ARE ON-GOING AND UTILIZED TO ENSURE THE RISK OF GROUNDWATER CONTAMINATION IS MINIMAL.

2. A description of procedures and facilities used to protect groundwater quality from the list of potential contaminant sources above.

QUARTERLY INSPECTIONS ARE CONDUCTED TO ENSURE THE FACILITY IS PROPERLY MAINTAINED TO PREVENT GROUNDWATER CONTAMINATION. ANNULUS MONITORING IS OBSERVED AS WELL AS SECONDARY CONTAINMENT INSPECTIONS QUARTERLY.

3. List procedures to be used when designing and adding new equipment or operations.

IF NEW EQUIPMENT IS ADDED TO THE SITE, SECONDARY CALCULATIONS AND DESIGN WILL BE CONDUCTED IN ORDER TO ENSURE THAT TANKS HAVE APPROPRIATE CONTAINMENT. FURTHERMORE, RECORDS OF INJECTION WILL BE MAINTAINED, AS WELL AS QUARTERLY INSPECTIONS CONDUCTED TO ENSURE THE WELL IS MAINTAINED PROPERLY. THE FACILITY IS REGULATED UNDER THE UIC PROGRAM, SPCC REGULATIONS, AND WVDEP AST REGULATIONS.

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

See Section 7 of this permit.

6. Provide a statement that no waste material will be used for deicing or fill material on the property unless allowed by another rule.

NO WASTE MATERIAL WILL BE USED FOR DEICING OR FILL MATERIAL AT THE SITE.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

DIVERSIFIED MAINTAINS A FORMAL WRITTEN PROCEDURE AND CONDUCTS ROUTINE TRAINING ON GROUNDWATER CONTAMINATION PREVENTION.

8. Include provisions for inspections of all OPP elements and equipment. Inspections must be made quarterly at a minimum.

QUARTERLY INSPECTIONS ARE CONDUCTED ON-SITE IN ORDER TO FULFILL GPP REQUIREMENTS. THE INSPECTIONS INCLUDE EVALUATIONS OF THE SECONDARY CONTAINMENT, AST'S, AND INJECTION WELL INSPECTIONS ARE RECORDED AND MAINTAINED BY DIVERSIFIED

Signature: Lisa Raffle

Date: 10/29/2024



Section 12 – Plugging and Abandonment UIC

UIC 2D0394892

Plugging Prognosis

API #: 47-039-04892 Ivana TR3 #2 West Virginia, Kanawha County, Elk District, Clendenin 15' Quad, Blue Creek 7.5' Quad Lat/Long – 38.480951, -81.49305 Nearest ER: Charleston Area Medical Center: Emergency Room – 501 Morris St, Charleston, WV 25301

Casing Schedule

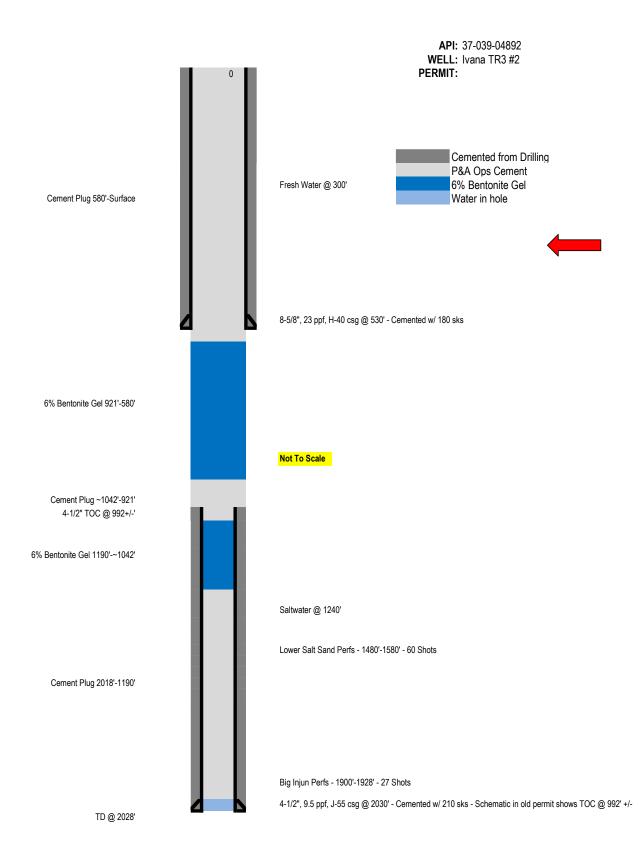
8-5/8", 23 ppf, H-40 @ 530' – Cemented w/ 180 sks 4-1/2", 9.5 ppf, J-55 @ 2030' – Cemented w/ 210 sks – Schematic in old permit shows TOC @ 992'+/-2-3/8", Sealtite, J-55 @ 1472' – 4-1/2" x 2-3/8" R-4 Halliburton Packer @ 1472' TD @ 2028'

Completion: Big Injun – 27 Perfs 1900'-1928' – 414 bbl H2O, 1500 sks 10/20 sand Lower Salt Sand – 60 Perfs 1480'-1580' – 674 bbls H2O, 375 sks 20/40 sand

Fresh Water: 300' Salt Water: 1240' Gas Shows: None Reported Oil Shows: None Reported Coal: None Reported Open None Reported Elevation: 971'

- 1. Notify Inspector Terry Urban @ 304-549-5915, 48 hrs prior to commencing operations.
- 2. Check and record pressures on csg/tbg.
- 3. Pump 6% Bentonite Gel between each plug.
- 4. If necessary, blow down and kill well with fluid.
- 5. Unset 4-1/2" x 2-3/8" R-4 Halliburton Packer @ 1472' and TOOH w/ 2-3/8" tbg & packer.
- 6. Check TD w/ sandline/tbg.
- TIH w/ tbg to 2018'. Kill well as needed with 6% bentonite gel and fill rat hole with gel. Pump at least 15 bbls gel. Pump 828' Class L/Class A cement plug from 2018' to 1190' (Completion Plug – Big Injun & Lower Salt Sand & Saltwater Plug). Approximately 67 sks @ 1.14 yield. WOC. Tag TOC. Top off as needed. Do not omit any plugs listed below. Perforate as needed. Can break into two plugs for operational feasibility. Can be combined and set with 4-1/2" Csg Cut & Elevation Plug if feasible.
- Free point 4-1/2" csg. Cut and TOOH. Set 100' Class L/Class A cement plug across csg cut. 50' in/out of cut. Approximately 14 sks @ 1.14 yield. Do not omit any plugs listed below. Perforate as needed. Can be combined and set with Completion Plug Big Injun & Lower Salt Sand, Saltwater, & Elevation Plug Plug if feasible.
- TOOH w/ tbg to 1021'. Pump 100' Class L/Class A cement plug from 1021' to 921' (Elevation Plug). Approximately 8 sks @ 1.14 yield. Top off as needed. Do not omit any plugs listed below. Perforate as needed. Can be combined and set with Completion Plug – Big Injun & Lower Salt Sand, Saltwater, & 4-1/2" Csg Cut Plug if feasible.

- TOOH w/ tbg to 580'. Pump 580' Class L/Class A cement plug from 580' to Surface (8-5/8" Csg Shoe, Fresh Water, & Surface Plug). Approximately 182 sks @ 1.14 yield. Top off as needed. Perforate as needed.
- 11. Reclaim location and well road to WV DEP specifications and erect P&A well monument.





Section 13 – Additional Bonding

UIC 2D0394892

OP-7 Rev. 1/12 *This Bond Replaces and Supersedes Berkley Insurance Company Bond No. 0231215.

BOND NUMBER 612423829 OPERATOR CODE

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS BOND FOR SINGLE OIL OR GAS WELL, SINGLE LIQUID INJECTION WELL OR SINGLE WASTE DISPOSAL WELL

KNOWN ALL MEN BY THESE PRESENTS:

(1)	That we,	Diversified	Production LLC	1	- 11 C			* . 	
(2)	1600 Corporate Ori	ve, Birminghar	n, AL 36242			 		~	
As	Principal	, and	(3) United States F	ire Insurance Company			. • *		
(4)	305 MADISON AV	enue, Morr	ISTOWN, NJ 07960			 			······

a firm and/or a corporation authorized to do business in the State of West Virginia, as Surety, are held and firmly bound unto the State of West Virginia in the just and full sum of (5) Fivethousand and No/100 dollars (\$5,000.00) to the payment whereof well and truly to make, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the above bound Principal in pursuance of the provisions of Chapter 22, Article 6 and 6A of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder, has made or intends to make application to the Chief of the Office of Oil and Gas, Department of Environmental Protection, the State of West Virginia for a permit to drill, redrill, deepen, fracture, stimulate, plug, pressure, convert, combine, physically change, partially plug, case and/or reclaim, purchase or acquire, a single oil or gas well or liquid injection well or waste disposal well, located on the waters of (6) ______, in (7) _______ District, (8) Kanawha _______ County, West Virginia, assigned by said Department of Environmental Protection, (9) API Well No. 47-039 __04892 _; and

WHEREAS, THE Obligee as a condition precedent to the issuance of such Permit or release of other obligation has required the Principal to furnish a SURETY BOND acceptable to the Obligee guaranteeing the performance of said provisions of Chapter 22, Article 6 and/or 6A, of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder;

NOW THEREFORE, the condition of this obligation is such that if the Principal, its personal representatives, successors, heirs and assigns shall either (1) in drilling, redrilling, deepening, fracturing, stimulating, plugging, pressuring, converting, combining, physically changing, partially plugging, casing, and reclaiming, and furnish all reports, information and affidavits as may be required by the Department of Environmental Protection, Office of Oil and Gas, documenting that said well has been plugged and abandoned in accordance with Chapter 22, Article 6, of the Code of West Virginia, 1931, as amended, and the regulations promulgated thereunder, or (2) deposit with the Chief cash from the sale of the oil and gas or bond in the amount of (10) FiveThousand and No/100 dollars (\$5,000.00) then this obligation to be void; otherwise to remain in full force and effect.

This bond shall be effective from the (11) 31st day of July 2024 , until released by the Department of Environmental Protection.

IN WITNESS WHEREOF the said Principal has hereunder set his or its hand and affixed his or its seal, and the said surety has caused its corporate name to be signed hereto and its corporate seal to be hereunto affixed by its duly authorized officer or agent this instrument this (12) <u>31st</u> day of <u>duly</u> <u>, 2024</u>.

(15) Principal	(13)	Diversified production LLC (Seal)
Corporate Seal	(14)	By: $U = SVP$
		(Title) (Must be President or V. President)
		United States Fire Insurance Company
(18) Surety	(16)	Man M. Con (Seal)
Corporate Seal		(Surety)
		Mark W. Edwards, II, Attorney-in-Fact

(REVERSE)

ACKNOWLEDGMENTS

	STATE OF				
2.	County of				- _ to-wi
	l,the		, a Nota	ry Public in an	d for
	the				
4.	county and state aforesaid, do hereby certifiy that				
who	be name is signed to the foregoing writing, has this day	y acknowledged the	e same before i	me in my said	county
5.	Given under my hand this				•
6.	Notary Seal	7.	·:		
	(Notary Public)				
8.	My commission expires on the day of	·	na an tha ta		20
· . · ·	🚅 - China Changara (China China) China China Chin				
Ac	knowledgment by Principal if Corporation or Li	mited Liability C	ompany		
9.	OF OKlahoma				
	[13] Contraction and the second se				
10.	county of OKhahona wit: 1. Desiree Morain the	· · · · · · · · · · · · · · · · · · ·		·····	to-
•	Cogires Morado				
.11,	the		, a Nota	iry Public in ar	nd tor
12.	county and state aforesaid, do hereby certify that	John	Crain		
13.	who as, <u>SVP + Treasurer</u>	•	signed th	ne foregoing w	riting
14	Diversified Produ	line 111	,		
	corporation/LLC,			a	
con	corporation/LLC, has this day, in my said county, before me, acknowled			and deed of th	ne said
	corporation/LLC, has this day, in my said county, before me, acknowled p/LLC.	dged the said writin	ig to be the act		
	corporation/LLC, has this day, in my said county, before me, acknowled p/LLC. Given under my harm the Given under my harm the Given under my harm the Given under MORAIN Notary Public	dged the said writin			
	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my harm time Notary Public Notary Seal Commission #2400830	dged the said writin	ig to be the act		21
15.	corporation/LLC, has this day, in my said county, before me, acknowled p/LLC. Given under my hard time Notary Seal Notary Seal Commission #2400836 My Comm. Expires July 1,	dged the said writin	ig to be the act		21
15. 16.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my harm time Notary Seal Notary Seal Commission #240083c My Comm. Expires July 1, (Notary Public)	dged the said writin	ig to be the act		<u>21</u> 1
15. 16.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my harm time Notary Public Notary Seal Commission #240083c My Comm. Expires July 1, (Notary Public)	dged the said writin	ig to be the act		<u>21</u> 1
15. 16. 18.	corporation/LLC, has this day, in my said county, before me, acknowled p/LLC. Given under my harm time 3) 50 DESIREE MORAIN Notary Public State of Oklahoma Commission #240083c My Comm. Expires July 1, (Notary Public) My commission expires on the day	dged the said writin	ig to be the act		<u>21</u> 1
15. 16. 18. Ack	corporation/LLC, has this day, in my said county, before me, acknowled p/LLC. Given under my hard time3) 5 Given under my hard time3) 5 DESIREE MORAIN Notary Public State of Oklahoma Commission #240083c My Comm. Expires July 1, (Notary Public) My commission expires on the day 	dged the said writin	ig to be the act		<u>21</u> 1
15. 16. 18. Ack 19.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my harm time Notary Seal (Notary Seal (Notary Public) My commission expires on the day (Notary Public) My commission expires on the day mowledgment by Surety STATE OF Alabama	dged the said writin	ig to be the act		<u>24</u> 1'
15. 16. 18. Ack 19. 20.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard time Notary Seal Notary Seal (Notary Public) My commission expires on the day (Notary Public) My commission expires on the day mowledgment by Surety STATE OF Alabama County of Jefferson	dged the said writin	g to be the act	20	<u>21</u> 1 2
15. 16. 18. Ack 19. 20.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my harm time Notary Seal (Notary Seal (Notary Public) My commission expires on the day (Notary Public) My commission expires on the day mowledgment by Surety STATE OF Alabama	dged the said writin	g to be the act		<u>21</u> 1 2
15. 16. 18. Ack 19. 20. 21.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard time Notary Seal (Notary Seal (Notary Public) My commission expires on the day (Notary Public) My commission expires on the day mowledgment by Surety STATE OF Alabama County of Jefferson I, Tyler Joseph Tucker the	dged the said writin	g to be the act	20	<u>21</u> 1 2
15. 16. 18. Ack 19. 20. 21. 22.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard time	dged the said writin	g to be the act	20 ary Public in	<u>21</u> 1 2 to-w/
15. 16. 18. 19. 20. 21. 22. 23.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my har trins 3) 50 day of DESINEE MORAIN Notary Public State of Oklahoma Commission #240083c My Comm. Expires July 1, (Notary Public) My commission expires on the day commission expires on the day mowledgment by Surety STATE OF Alabama County of Jefferson 1, Tyler Joseph Tucker the county and state aforesaid, Mark W. Edwards, II	dged the said writin	ig to be the act	20 ary Public in	21 1
15. 16. 18. 19. 20. 21. 22. 23. 23.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard times 3,5% Given under my hard times 3,5% Notary Seal Notary Seal (Notary Public) My commission #240083c My	dged the said writin	ig to be the act	ary Public in certify foregoing wri a corr	1 2 and f th th ting fo
15. 16. 18. Ack 19. 21. 21. 22. 23. 245.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard times 3,5% Given under my hard times 3,5% DESIREE MORAIN Notary Public State of Oklahoma Commission #240083c My comm. Expires July 1, (Notary Public) My commission expires on the day nowledgment by Surety STATE OF Alabama County of Jefferson I, Tyler Joseph Tucker the county and state aforesaid, Mark W. Edwards, II who as, Attorney-in-Fact Drifted States Fire Insurance Compa	dged the said writin	ig to be the act	ary Public in certify foregoing wri a corr	1 to-wi and fo the iting fo poratio
15. 16. 18. 18. 20. 21. 22. 23. 24. 24.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard time Notary Seal Notary Seal (Notary Public) My commission #240083c My Comm. Expires July 1, (Notary Public) My commission #240083c My Comm. Expires July 1, (Notary Public) My commission #240083c My Comm. Expires July 1, (Notary Public) My commission expires on the day mowledgment by Surety STATE OF Alabama County of Jefferson 1, Tyler Joseph Tucker the county and state aforesaid, Mark W. Edwards, II who as, Attorney-in-Fact Dinited States Fire Insurance Compa has this day, In my said county, before me, acknowle	dged the said writin	g to be the act , a Not hereby signed the ng to be the ac	ary Public in certify e foregoing wri a corn t and deed of	to-wi and for this poratio the sa
15. 16. 18. 18. 20. 21. 22. 23. 24. 24.	corporation/LLC, has this day, in my said county, before me, acknowled o/LLC. Given under my hard times 3,5% Given under my hard times 3,5% DESIREE MORAIN Notary Public State of Oklahoma Commission #240083c My comm. Expires July 1, (Notary Public) My commission expires on the day nowledgment by Surety STATE OF Alabama County of Jefferson I, Tyler Joseph Tucker the county and state aforesaid, Mark W. Edwards, II who as, Attorney-in-Fact Drifted States Fire Insurance Compa	dged the said writin	ig to be the act	ary Public in certify e foregoing wri a corn t and deed of	to-wi and fi this poratio the sa

J

STAT

	(Notary Public)		
28.	My commission expires on the	Brdday of _May	20 26
	ficiency in Form and Manner Execution Approved		Attorney General

This		 day of	_			· .	20	_	
	:		•	1					

By_

(Assistant Attorney General)

POWER OF ATTORNEY UNITED STATES FIRE INSURANCE COMPANY PRINCIPAL OFFICE - MORRISTOWN, NEW JERSEY

KNOW ALL MEN BY THESE PRESENTS: That United States Fire Insurance Company, a corporation duly organized and existing under the laws of the state of Delaware, has made, constituted and appointed, and does hereby make, constitute and appoint:

Mark W. Edwards, II; Jeffrey M. Wilson; Anna Childress; William M. Smith; Alisa B. Ferris; Richard H. Mitchell; Robert R. Freel

each, its true and lawful.Attorney(s)-In-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver: Any and all bonds and undertakings of surety and other documents that the ordinary course of surety business may require, and to bind United States Fire Insurance Company thereby as fully and to the same extent as if such bonds or undertakings had been duly executed and acknowledged by the regularly elected officers of United States Fire Insurance Company at its principal office, in amounts or penalties: **One Hundred Twenty Five Million Eight Hundred Thousand Dollars (\$125,800,000)**

This Power of Attorney limits the act of those named therein to the bonds and undertakings specifically named therein, and they have no authority to bind United States Fire Insurance Company except in the manner and to the extent therein stated.

This Power of Attorney revokes all previous Powers of Attorney issued on behalf of the Attorneys-In-Fact named above.

This Power of Attorney is granted pursuant to Article IV of the By-Laws of United States Fire Insurance Company as now in full force and effect, and consistent with Article III thereof, which Articles provide, in pertinent part:

Article IV, Execution of Instruments - Except as the Board of Directors may authorize by resolution, the Chairman of the Board, President, any Vice-President, any Assistant Vice President, the Secretary, or any Assistant Secretary shall have power on behalf of the Corporation:

(a) to execute, affix the corporate seal manually or by facsimile to, acknowledge, verify and deliver any contracts, obligations, instruments and documents whatsoever in connection with its business including, without limiting the foregoing, any bonds, guarantees, undertakings, recognizances, powers of attorney or revocations of any powers of attorney, stipulations, policies of insurance, deeds, leases, mortgages, releases, satisfactions and agency agreements;

(b) to appoint, in writing, one or more persons for any or all of the purposes mentioned in the preceding paragraph (a), including affixing the seal of the Corporation.

Article III, Officers, Section 3.11, Facsimile Signatures. The signature of any officer authorized by the Corporation to sign any bonds, guarantees, undertakings, recognizances, stipulations, powers of attorney or revocations of any powers of attorney and policies of insurance issued by the Corporation may be printed, facsimile, lithographed or otherwise produced. In addition, if and as authorized by the Board of Directors, dividend warrants or checks, or other numerous instruments similar to one another in form, may be signed by the facsimile signature or signatures, lithographed or otherwise produced, of such officer or officers of the Corporation as from time to time may be authorized to sign such instruments on behalf of the Corporation. The Corporation may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Corporation, notwithstanding the fact that he may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, United States Fire Insurance Company has caused these presents to be signed and attested by its appropriate officer and its corporate seal hereunto affixed this 28th day of September, 2021.

UNITED STATES FIRE INSURANCE COMPANY

Matthew E. Lubin, President

State of New Jersey} County of Morris }

On this 28th day of September, 2021, before me, a Notary public of the State of New Jersey, came the above named officer of United States Fire Insurance Company, to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seal of United States Fire Insurance Company thereto by the authority of his office.



Melissa # O'dassio

Melissa H. D'Alessio (Notary Public)

I, the undersigned officer of United States Fire Insurance Company, a Delaware corporation, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy is still in force and effect and has not been revoked.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal of United States Fire Insurance Company on the <u>31st</u> da of July, 20 24.

UNITED STATES FIRE INSURANCE COMPANY

Mehad C



Michael C. Fay, Senior Vice President

*For verification of the authenticity of the Power of Attorney, please contact SuretyInquiries@amyntagroup.com



Section 14 – Financial Responsibility

UIC 2D0394892

APPENDIX I

Requirement for Financial Responsibility to Plug/Abandon an Injection Well

In accordance with WV Code 47CSR13.13.7.g, all UIC permits shall require the permittee to maintain financial responsibility and resources to close, plug, and abandon underground injection wells in a manner prescribed by the Chief. The permittee must show evidence of financial responsibility to the Chief by submission of a surety bond, or other adequate assurance, such as a financial statement or other material acceptable to the Chief. This certification must be signed by one of the following:

- 1. For a corporation: by a principle corporate officer of at least the level of vicepresident;
- 2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
- 3. For a municipality, State, Federal, or other public agency: by either a principle executive officer or ranking elected official;
- 4. Or a duly authorized representative in accordance with 47CSR13.13.11.b. (A person may be duly authorized by one of the primary entities (1-3) listed above by submitting a written authorization to the Chief of the WVDEP Office of Oil and Gas designating an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

(Company Name)

(UIC Permit Number)

I certify in accordance with 47CSR13.13.7.g., that the company/permit holder cited above will maintain financial responsibility and resources to close, plug, and abandon underground injection wells(s) in a manner prescribed by the Chief of the Office of Oil and Gas and that documents to support this requirement are on record with the same.

(Print Name)

(Print Title)

Travis H. Cooke (Signature)

12/12/24

(Date)



Section 15 – Site Security Plan

UIC 2D0394892

The Ivana TR3 No.2 well (4703904892) is operated under commercial status and may accept Class 2 fluids from any qualified supplier. The pump facility operates manually twice weekly for five hours. The operations building, front gate, perimeter fence, and storage tanks are securely locked when not in operation.



Section 16 – Additional Information

UIC 2D0394892

АРРЕNDIX К **4703904892**

Identify permit or construction approvals received or applied for under the following programs:

Permit/approvals	ID Number
Hazardous Waste Management Program under RCRA	
NPDES Program	
Prevention of Significant Deterioration (PSD)	
Nonattainment Program	
Dredge or Fill	
NPDES/NPDES – Stormwater	
WVDEP – Office of Waste Management (OWM) – Solid Waste Facility	
WVDEP – OWM – RCRA (Hazardous Waste TSD or Transporter)	
WVDEP – OWM – UST	
CERCLA – Superfund	
WV Voluntary Remediation – Brownfields	
FIFRA – Federal Insecticide, Fungicide and Rodenticide Act	
Well Head Protection Program (WHPP)	
Underground Injection Control (UIC)	
Toxic Substances Control Act (TSCA)	
Best Management Plans	
Management of Used Oil	
Other Relevant Permits (Specify):	

