KOLAR Document ID: 1639322

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. R □East □ West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx) Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	Leading of field Paragraph Charles and Market
EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Canad Date on Date Decembed TD Completing Date on	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
☐ Wireline Log Received ☐ Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I III Approved by: Date:					

KOLAR Document ID: 1639322

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Petroleum Development Company
Well Name	WLSR 1-13
Doc ID	1639322

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	1834	Class C Pos Mix 2	615	
Production	7.875	5.5	15.5	4968	Class A	250	
Production	5.5	2.875	10.5	4882	N/A		

HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

Total Base Fluid Volume (gal)*:	True Vertical Depth (TVD):	Production Type: Oil	Datum: NAD83	Longitude:	Latitude:	Well Name and Number: WLSR #1-13	Operator Name:	API Number (14 Digits): 15-093-21991-00-00	County: Kearny	Last Fracture Date:
44430	4980	Oil	NAD83	101.1195956	38.14360949	WLSR #1-13	Operator Name: Petroleum Development Company	15-093-21991-00-00	Kearny	10/18/2021
							Company			



Hydraulic Fracturing Fluid Composition:

			Chemical	Maximum	Maximum	
			Abstract	Ingredient	Ingredient	
Trade Name Sup	Supplier Purpose	Ingredients	Service	Concentration	Concentration	Authorized Representative's Name, Address
			Number	in Additive	in HF Fluid	and Phone Number
			(CAS#)	(% by mass)**	(% by mass)**	
Water Scout Energy Partners	Partners Carrier/Base Fluid	Water	7732-18-5	100.00%	62.07871%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
Proppant)		Crystalline Silica (quartz)	14808-60-7	100.00%	13.67637%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Ammonium Persulfate	7727-54-0	100.00%	0.63600%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
Plexsurf 210E Chemplex	Flowback Aid	Methyl Alcohol	67-56-1	30.00%	0.95500%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Water	7732-18-5	60.00%	1.91000%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		2-8utoxy-1-ethanol	111-76-2	5.00%	0.15900%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Alcohols, C9-C11, Ethoxylated	68439-46-3	5.00%	0.15900%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Alcohols, C12-C13, Ethoxylated	66455-14-9	5.00%	0.15900%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
Bellacide 300 BWA Water Additives	dditives Water treatment	Tributyltetradecyl Phosphonium Chloride	81741-28-8	2.78%	0.03200%	Gore Nitrogen, P.O. 80x 65, Seiling, OK 73663, 580-922-4660
		Poly[osyethylene{dimethyliminia}ethylene{dimethylim	31512-74-0	2.22%	0.02500%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Propargyl Alcohol	107-19-7	10.00%	0.11400%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Alcohols, C14-15, ethoxylated	68951-67-7	25.00%	0.28400%	Gore Nitrogen, P.O. 80x 65, Seiling, OK 73663, 580-922-4660
Clayplex 650 Chemplex	Potassium chloride substitute	Ethanaminium, 2-bydroxy: N, N, N-trimethyl-, chloride	67-48-1	35.00%	2.13600%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
Nitrogen Air Products	Energize Fluid	Nitrogen, N@	7727-37-9	100.00%	23.93783%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
DF 100 Drilling Fluid Technology		Methanol	67-56-1	10.00%	1.69200%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Isopropyl Alcohol	67-63-0	15.00%	2.53800%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Ethylene Glycol Butyl Ether	111-76-2	20.00%	3.38400%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
Plexbreak 150 Chemplex	Nonemulsifier	Methyl Alcohol	67-56-1	60.00%	1.63700%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Cocamide Diethanolamine Salt	68603-42-9	45.00%	1.22800%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Diethanolamine	111-42-2	5.00%	0.13600%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Fatty Acid Diethanolamide	68155-07-7	5.00%	0.13600%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
		Diethanlaminophosphonic Acid Ester Ammonium Sal	73070-48-1	7.00%	0.19100%	Gore Nitrogen, P.O. Box 65, Seiling, OK 73663, 580-922-4660
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
edients shown above are sub	ect to 29 CRF 1910.1200(i) and appea	ingredients shown above are subject to 29 CRF 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.	ents shown belo	w are Non-MSDS.		
						\$1.00 miles 1.00
_						







Prepared For: Petroleum Development Co

401 S. Boston AVE STE 1850 Tulsa, OK 74103

ATTN: Ken LeBlanc

WLSR #1-13

13-22S-35W Kearny,KS

Start Date: 2021.09.14 @ 13:10:00 End Date: 2021.09.14 @ 22:55:19 Job Ticket #: 67105 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.21 @ 11:39:14



Petroleum Development Co

13-22S-35W Kearny,KS

WLSR #1-13

Job Ticket: 67105

DST#: 1

ATTN: Ken LeBlanc

401 S. Boston AVE

Tulsa, OK 74103

STE 1850

Test Start: 2021.09.14 @ 13:10:00

GENERAL INFORMATION:

Formation: Morrow

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 16:44:50 Tester: Martine Salinas
Time Test Ended: 22:55:19 Unit No: 82

The Foot Eliada. 22.00.10

 Interval:
 4730.00 ft (KB) To
 4820.00 ft (KB) (TVD)
 Reference ⊟evations:
 3025.00 ft (KB)

 Total Depth:
 4820.00 ft (KB) (TVD)
 3017.00 ft (CF)

 Hole Diameter:
 7.88 inchesHole Condition: Good
 KB to GR/CF:
 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 43.20 psig @ 4731.00 ft (KB) Capacity: 8000.00 psig

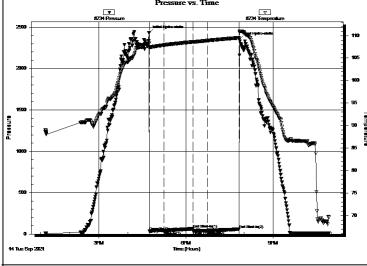
 Start Date:
 2021.09.14
 End Date:
 2021.09.14
 Last Calib.:
 2021.09.14

 Start Time:
 13:10:01
 End Time:
 22:55:19
 Time On Btm:
 2021.09.14 @ 16:44:40

 Time Off Btm:
 2021.09.14 @ 19:51:20

TEST COMMENT: 30-IF-Weak surface blow dead @ 6 mins

60-ISI-No return 30-FF-No blow 60-FSI-No return



		PI	RESSUR	RE SUMMARY
Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2431.94	108.26	Initial Hydro-static
	1	33.90	107.15	Open To Flow (1)
	31	37.33	107.88	Shut-In(1)
	91	63.88	108.60	End Shut-In(1)
#	91	38.22	108.59	Open To Flow (2)
Temperature	121	43.20	108.89	Shut-In(2)
2	186	60.92	109.52	End Shut-In(2)
	187	2354.16	110.89	Final Hydro-static

Recovery

Description	Volume (bbl)
100% Mud	0.02
	Description 100% Mud

Gas Rat	es	
Choke (inches)	Pressure (neig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67105 Printed: 2021.09.21 @ 11:39:14



Petroleum Development Co

401 S. Boston AVE

Tulsa, OK 74103

STE 1850

13-22S-35W Kearny,KS

82

Reference Elevations:

WLSR #1-13

Job Ticket: 67105

DST#: 1

ATTN: Ken LeBlanc

Test Start: 2021.09.14 @ 13:10:00

GENERAL INFORMATION:

Formation: Morrow

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:44:50 Time Test Ended: 22:55:19

Interval: 4730.00 ft (KB) To 4820.00 ft (KB) (TVD)

Total Depth: 4820.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Martine Salinas

3025.00 ft (KB)

 $3017.00 \;\; \text{ft (CF)}$ KB to GR/CF: $8.00 \;\; \text{ft}$

Serial #: 8959 Inside

 Press@RunDepth:
 psig
 @
 4731.00 ft (KB)
 Capacity:
 8000.00 psig

 Start Date:
 2021.09.14
 End Date:
 2021.09.14
 Last Calib.:
 2021.09.14

 Start Date:
 2021.09.14
 End Date:
 2021.09.14
 Last Calib.:

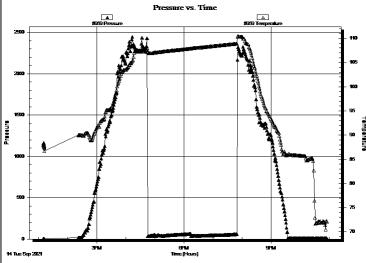
 Start Time:
 13:10:01
 End Time:
 22:55:19
 Time On Btm:

Time Off Btm:

Unit No:

TEST COMMENT: 30-IF-Weak surface blow dead @ 6 mins

60-ISI-No return 30-FF-No blow 60-FSI-No return



Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	

PRESSURE SUMMARY

Recovery

Description	Volume (bbl)
100% Mud	0.02
	·

Gas Rates Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67105 Printed: 2021.09.21 @ 11:39:14



TOOL DIAGRAM

Petroleum Development Co

13-22S-35W Kearny,KS

401 S. Boston AVE STE 1850

WLSR #1-13 Job Ticket: 67105

DST#: 1

Tulsa, OK 74103 ATTN: Ken LeBlanc

Test Start: 2021.09.14 @ 13:10:00

Tool Information

Drill Collar:

Drill Pipe: Heavy Wt. Pipe: Length:

Length: 4548.00 ft Diameter: 0.00 ft Diameter: 179.00 ft Diameter: 3.80 inches Volume: 63.80 bbl 2.75 inches Volume: 0.00 bbl 2.25 inches Volume: 0.88 bbl

Total Volume:

64.68 bbl

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 78000.00 lb

Drill Pipe Above KB: 29.00 ft Depth to Top Packer: 4730.00 ft

Length:

Tool Chased 0.00 ft String Weight: Initial 68000.00 lb

Depth to Bottom Packer: ft Interval between Packers: 90.00 ft Final 68000.00 lb

Tool Length: 122.00 ft Number of Packers:

2 Diameter: 6.75 inches

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4703.00		
Hydraulic tool	5.00	1113		4708.00		
Jars	5.00	01-07		4713.00		
EM Tool	4.00			4717.00		
Safety Joint	3.00	-001		4720.00		
Packer	5.00			4725.00	32.00	Bottom Of Top Packer
Packer	5.00			4730.00		
Stubb	1.00			4731.00		
Recorder	0.00	8959	Inside	4731.00		
Recorder	0.00	8734	Outside	4731.00		
Perforations	22.00			4753.00		
Change Over Sub	1.00			4754.00		
Drill Pipe	62.00			4816.00		
Change Over Sub	1.00			4817.00		
Bullnose	3.00			4820.00	90.00	Bottom Packers & Anchor

Total Tool Length: 122.00

Trilobite Testing, Inc Ref. No: 67105 Printed: 2021.09.21 @ 11:39:16



FLUID SUMMARY

Petroleum Development Co

13-22S-35W Kearny,KS

WLSR #1-13

Job Ticket: 67105

Serial #:

DST#: 1

Tulsa, OK 74103 ATTN: Ken LeBlanc

401 S. Boston AVE

STE 1850

Test Start: 2021.09.14 @ 13:10:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:58.00 sec/qtCushion Volume:bbl

Water Loss: 7.99 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4500.00 ppm Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl	
5.00	100% Mud	0.025	

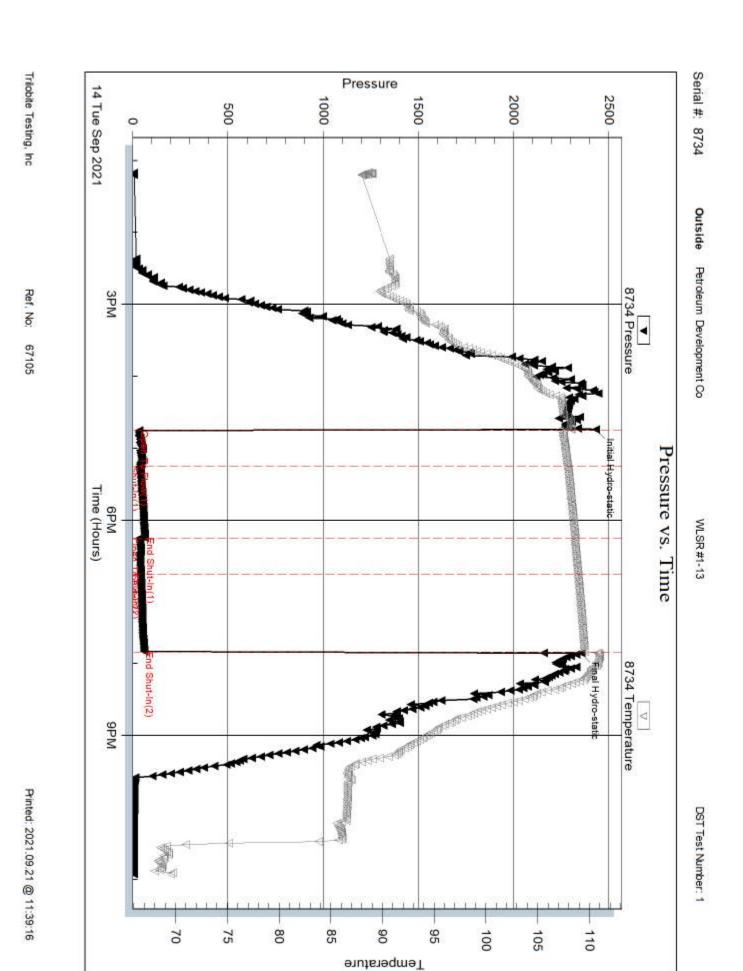
Total Length: 5.00 ft Total Volume: 0.025 bbl

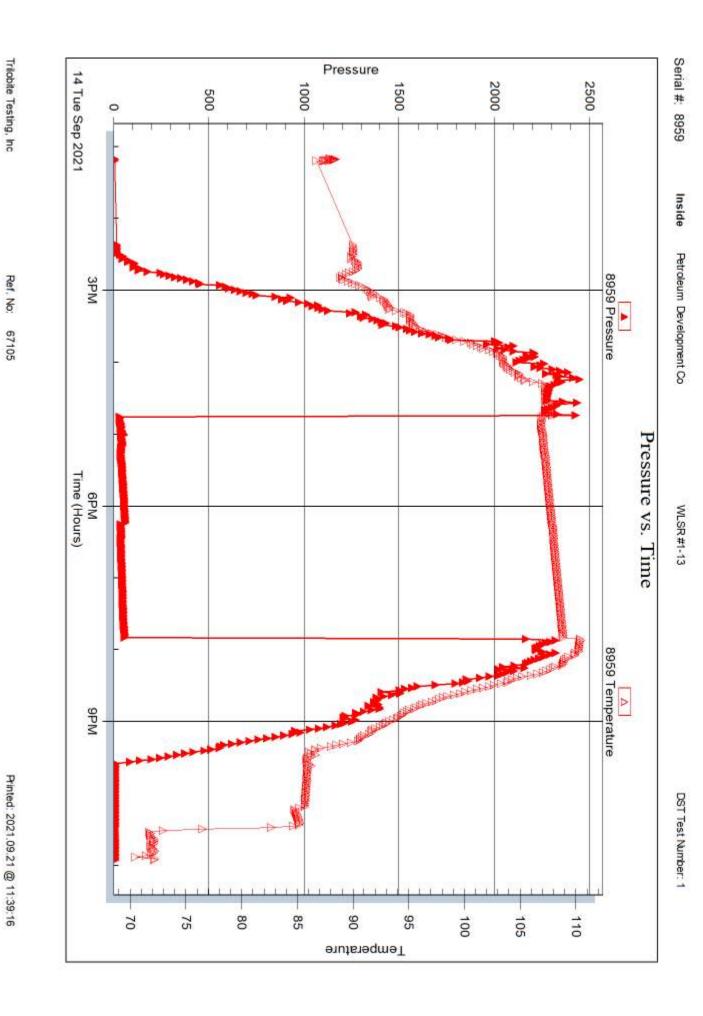
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 67105 Printed: 2021.09.21 @ 11:39:16







Prepared For: Petroleum Development Co

401 S. Boston AVE STE 1850 Tulsa, OK 74103

ATTN: Ken LeBlanc

WLSR #1-13

13-22S-35W Kearny,KS

Start Date: 2021.09.16 @ 09:43:00 End Date: 2021.09.16 @ 21:39:49 Job Ticket #: 67106 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



Petroleum Development Co

401 S. Boston AVE

Tulsa, OK 74103 ATTN: Ken LeBlanc

STE 1850

13-22S-35W Kearny,KS

WLSR #1-13

Job Ticket: 67106

DST#: 2

Test Start: 2021.09.16 @ 09:43:00

GENERAL INFORMATION:

Formation: Morrow

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:12:09 Time Test Ended: 21:39:49

Interval: 4716.00 ft (KB) To 4976.00 ft (KB) (TVD)

Total Depth: 4976.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Martine Salinas

Unit No: 82

Reference Elevations: 3025

3025.00 ft (KB) 3017.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8734 Outside

Press@RunDepth: 175.02 psig @ 4717.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2021.09.16
 End Date:
 2021.09.16
 Last Calib.:
 2021.09.16

 Start Time:
 09:43:01
 End Time:
 21:39:49
 Time On Btm:
 2021.09.16 @ 14:11:50

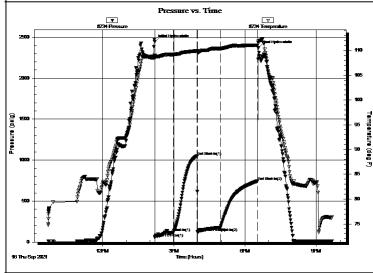
 Time Off Btm:
 2021.09.16 @ 18:33:49

TEST COMMENT: 30-IF-1/2" to 3 3/4"

60-ISI-No return

60-FF-B.O.B (11 inches) @ 18 mins (blow increased to 20 1/4")

90-FSI-Return blow to 1" dead @ 50 mins



Ī	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	2441.36	108.95	Initial Hydro-static
	1	54.98	108.38	Open To Flow (1)
	48	118.08	109.16	Shut-In(1)
	108	1050.39	109.89	End Shut-In(1)
	109	120.87	109.55	Open To Flow (2)
	166	175.02	110.36	Shut-In(2)
,	260	743.80	111.03	End Shut-In(2)
,	262	2368.54	111.53	Final Hydro-static

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)
270.00	GOCM 23%G, 32%O, 45%M	2.16
60.00	SOCM 5%O, 95%M	0.84
0.00	60' GIP	0.00
* Recovery from mult	tiple tests	

Gas Rat		
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 67106 Printed: 2021.09.21 @ 11:37:48



Petroleum Development Co

401 S. Boston AVE

Tulsa, OK 74103 ATTN: Ken LeBlanc

STE 1850

13-22S-35W Kearny,KS

82

WLSR #1-13

Job Ticket: 67106

DST#: 2

Test Start: 2021.09.16 @ 09:43:00

GENERAL INFORMATION:

Formation: Morrow

Deviated: Test Type: Conventional Bottom Hole (Reset) No Whipstock: ft (KB)

Time Tool Opened: 14:12:09 Tester: Martine Salinas

Time Test Ended: 21:39:49 Unit No:

Interval: 4716.00 ft (KB) To 4976.00 ft (KB) (TVD) Reference ⊟evations: 3025.00 ft (KB)

Total Depth: 4976.00 ft (KB) (TVD) 3017.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8959 Inside

Press@RunDepth: 4717.00 ft (KB) 8000.00 psig psig @ Capacity:

Start Date: 2021.09.16 End Date: 2021.09.16 Last Calib.: 2021.09.16

Start Time: 09:43:01 End Time: Time On Btm: 21:39:40

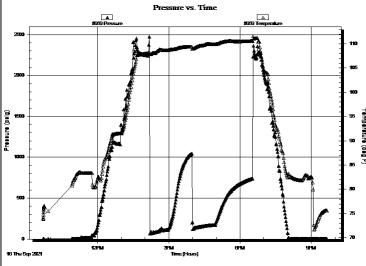
Time Off Btm:

TEST COMMENT: 30-IF-1/2" to 3 3/4"

60-ISI-No return

60-FF-B.O.B (11 inches) @ 18 mins (blow increased to 20 1/4")

90-FSI-Return blow to 1" dead @ 50 mins



PRESSURE S	SUMMARY
------------	---------

Ī	Time	Pressure		Annotation
	(Min.)	(psig)	(deg F)	
,				
Temperature (den F)				
ì				
د				

Recovery

Length (ft)	Description	Volume (bbl)
270.00	GOCM 23%G, 32%O, 45%M	2.16
60.00	SOCM 5%O, 95%M	0.84
0.00	60' GIP	0.00
* Recovery from mul	tiple tests	-

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------

Ref. No: 67106 Printed: 2021.09.21 @ 11:37:49 Trilobite Testing, Inc



TOOL DIAGRAM

Petroleum Development Co

13-22S-35W Kearny,KS

401 S. Boston AVE STE 1850

Job Ticket: 67106

WLSR #1-13

DST#: 2

Tulsa, OK 74103 ATTN: Ken LeBlanc

Test Start: 2021.09.16 @ 09:43:00

Tool Information

Number of Packers:

Drill Pipe: Length: 4517.00 ft Diameter:
Heavy Wt. Pipe: Length: 0.00 ft Diameter:
Drill Collar: Length: 179.00 ft Diameter:

Tool Comments: Pulled 30K over STWT and ruined Shale Packer

3.80 inches Volume: 63.36 bbl 2.75 inches Volume: 0.00 bbl 2.25 inches Volume: 0.88 bbl

64.24 bbl

Total Volume:

Tool Weight: 2500.00 lb Weight set on Packer: 25000.00 lb Weight to Pull Loose: 100000.0 lb

Drill Pipe Above KB: 12.00 ft
Depth to Top Packer: 4716.00 ft
Depth to Restrem Packer: ft

Tool Chased 0.00 ft
String Weight: Initial 68000.00 lb
Final 71000.00 lb

Depth to Bottom Packer: ft
Interval between Packers: 260.00 ft
Tool Length: 292.00 ft

2 Diameter: 6.75 inches

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4689.00		
Hydraulic tool	5.00	1113		4694.00		
Jars	5.00	01-07		4699.00		
EM Tool	4.00			4703.00		
Safety Joint	3.00	-001		4706.00		
Packer	5.00			4711.00	32.00	Bottom Of Top Packer
Packer	5.00			4716.00		
Packer - Shale	0.00			4716.00		
Stubb	1.00			4717.00		
Recorder	0.00	8959	Inside	4717.00		
Recorder	0.00	8734	Outside	4717.00		
Perforations	30.00			4747.00		
Change Over Sub	1.00			4748.00		
Drill Pipe	219.00			4967.00		
Change Over Sub	1.00			4968.00		
Perforations	3.00			4971.00		
Bullnose	5.00			4976.00	260.00	Bottom Packers & Anchor

Total Tool Length: 292.00

Trilobite Testing, Inc Ref. No: 67106 Printed: 2021.09.21 @ 11:37:50



FLUID SUMMARY

Petroleum Development Co

13-22S-35W Kearny,KS

WLSR #1-13

Job Ticket: 67106

DST#: 2

Tulsa, OK 74103 ATTN: Ken LeBlanc

401 S. Boston AVE

STE 1850

Test Start: 2021.09.16 @ 09:43:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 56.00 sec/qt Cushion Volume: bbl

8.79 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 4800.00 ppm Filter Cake: 1.00 inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
270.00	GOCM 23%G, 32%O, 45%M	2.157
60.00	SOCM 5%O, 95%M	0.842
0.00	60' GIP	0.000

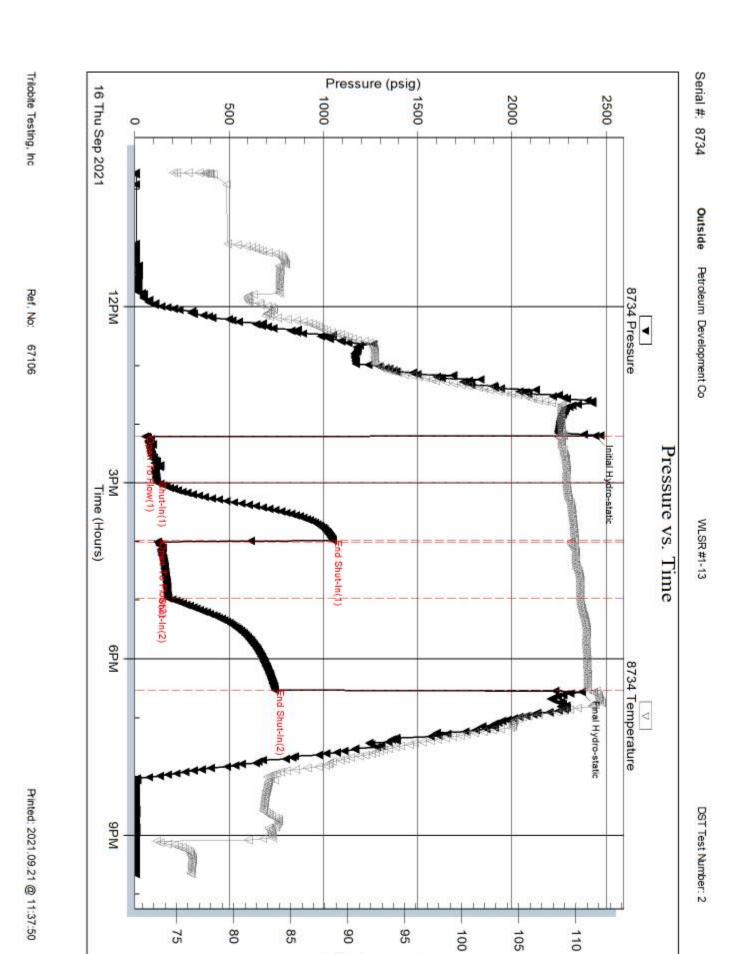
Total Length: 330.00 ft Total Volume: 2.999 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

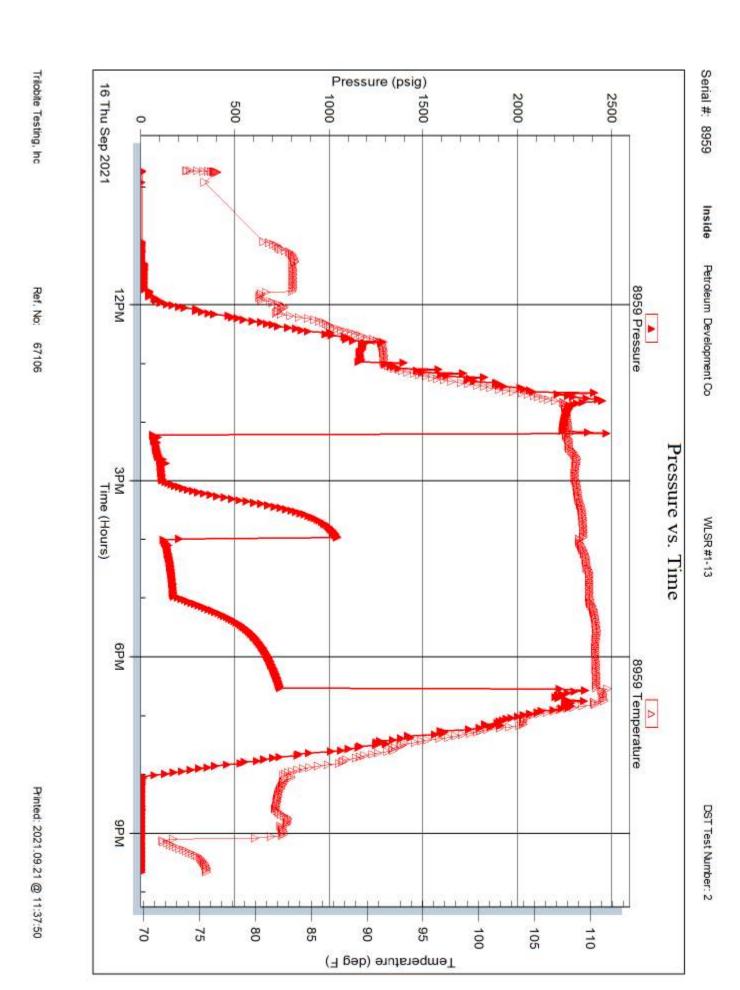
Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 67106 Printed: 2021.09.21 @ 11:37:50



Temperature (deg F)





RILOBITE ESTING INC.

1515 Commerce Parkway - Hays, Kansas 67601

Test Ticket

NO. 67105

4/10 · MA (II)				
Well Name & No. WCSR # 1-13	Test No	1	Date 9-14	-21
Company Petroleum Development (Elevation _	3025.	KB S	3017 GL
Address 401 S. Boston Ave S	TE 1850 TUISG OK 75	103		
Co. Rep/Geo. Ken Le Blanc-	Rig Mu			
Location: Sec Twp	Rge. 35W. Co. Kear			2.
Interval Tested 4730 - 4820	Zone Tested Mo 110W			
Anchor Length 95'	Drill Pipe Run 4548	M	ud Wt. 9. J	
Top Packer Depth 4725.	Drill Collars Run 179	v	is 58	
Bottom Packer Depth 4730	Wt. Pipe Run	w	18.0	
Total Depth 4820	Chlorides 4500 p	pm System Lo	CM 444	
Blow Description IF . Weak Surface blo			7.07	
IJI. No return				
FF. No blow				N.
F.F. No return.				
Rec 5 Feet of Mud	%gas	%oil	%water	100 %muc
Rec Feet of	%gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Feet of	%gas	%oil	%water	%mud
Rec Total 5 BHT ///	Gravity API RW	tales of the same	Chlorides	
(A) Initial Hydrostatic 2432	Test 1450		ation 11:15	
(B) First Initial Flow	Jars 250		13:10	
(C) First Final Flow	Safety Joint 75		16:45.	
(D) Initial Shut-In(5 4	Circ Sub		19:45.	
(E) Second Initial Flow 38	Hourly Standby 1.5h 150	T-Out _2	2:55	
(F) Second Final Flow 4.3	Mileage //6 R7 145	Comment	s	
(G) Final Shut-In	Sampler			
(H) Final Hydrostatic 2354			250	
3.70	Straddle	1	ool350	
Initial Open	Shale Packer		d Shale Packer_	The state of the s
Initial Shut-In 60	Extra Packer		d Packer	
Final Flow 36	Extra Recorder		350	
Final Shut-In 6	Day Standby	Sub Total Total2		. 6
	Accessibility			É,
Approved By		. / /	Diac't	
Approved By	Our Representative	Rection	rale	

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any less suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Test Ticket

67106 NO.

RILOBITE

ESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10 "77/						
Well Name & No. WLSR #	1-13		Test No2		Date 9-16-21	
Company Petroleum Dev		mpany	Elevation _36	a.S	кв 3017	GL
Address 401 S. Buston						
Co. Rep/Geo. Ken LeRland			1000 C - 1000			
Location: Sec. 13						
Interval Tested 4716 - 497	16 L.T.O.	Zone Tested Ma	110W			
Anchor Length 260		Drill Pipe Run 💆	1517		Mud Wt. 9.1	
Top Packer Depth 4711		Drill Collars Run _	179.		Vis <u>56</u>	
Bottom Packer Depth 4716	(Shaile)	Wt. Pipe Run			WL 8.8	
Total Depth 4976 L.T.D		Chlorides 4800	ppm	System	LCM 2#	
Blow Description TF . 1/2" to	33/4"					
ISI No TE	turn	VI TALL				
FF - B. O. B (11 inches) @	18 mins (blow	incressed to d	20'/4")		7
		+ decreasing dead				
Rec 270 Feet of G	ocm	2			%water 43	%muc
Rec66 Feet of _Sc	CM		%gas	5 %oil	%water 9	5 %muc
Rec	O'GIP		%gas	%oil	%water	%muc
Rec Feet of			%gas	%oil	%water	%muc
Rec Feet of			%gas	%oil	%water	%muc
Rec Total 335	внт 112	Gravity A	PIRW@	°F	Chlorides	ppm
(A) Initial Hydrostatic 244/		Test 1450		T-On L	ocation 08:15	
(B) First Initial Flow 55	2.858	Jars250			ed 09:43	
(C) First Final Flow		Safety Joint 75	5	T-Oper	14:13	
(D) Initial Shut-In	1050	☐ Circ Sub		T-Pulle	d 18:28	
(E) Second Initial Flow	21	Hourly Standby	2hr 200		21:40	
(F) Second Final Flow	5	Mileage 116 R	7 145		ents Tool /xacle	ed
(G) Final Shut-In	744	☐ Sampler		(2)	22.30	
(H) Final Hydrostatic 2369				D EN	/ Tool	305
		Shale Packer 25		A Ru	I Tool36 ined Shale Packer36	5
Initial Open 45		Extra Packer			ined Shale Packer	
Initial Shut-In_60		☐ Extra Recorder			tra Copies	
Final Flow 60	-41-	☐ Day Standby		Sub To	265	
Final Shut-In 90		☐ Accessibility		Total_	2735	E per
		Sub Total 2370		MP/DS	ST Disc't	
Approved By		Our	Representative		her.	West -
Trilobite Testing Inc. shall not be tiable for damaged equipment, or its statements or opinion concerning	of any kind of the propert	y or personnel of the one for whom a	lest is made, or for any loss	suffered or sústa	aiged, directly or indirectly, through	h the use of its

Conservation Division 266 N. Main St., Ste. 220 Wichita, KS 67202-1513



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Laura Kelly, Governor

Dwight D. Keen, Chair Susan K. Duffy, Commissioner Andrew J. French, Commissioner

April 14, 2022

Wm. Dennis Ingram Petroleum Development Company 401 S BOSTON AVE STE 1850 TULSA, OK 74103-4005

Re: ACO-1 API 15-093-21991-00-00 WLSR 1-13 NW/4 Sec.13-22S-35W Kearny County, Kansas

Dear Wm. Dennis Ingram:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 09/07/2021 and the ACO-1 was received on April 14, 2022 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



										0/2024
Customer	Petroleum Develop	oment						Date	9/	9/2021
Service District	Oakley KS		County & State		Legals S/T/R	13-22S		Job#		
Job Type	8.625" Surface	✓ PROD	☐ INJ	SWD	New Well?	✓ YES	☐ No	Ticket#	W	P1837
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures								
194/250	Fennis	✓ Hard hat		✓ Gloves		☐ Lockout/Ta	gout	Warning Sign		
180/520	Mike	✓ H2S Monitor		✓ Eye Protection	1	Required Pe	ermits	Fall Protectio	n	
242	Kale	✓ Safety Footw	ear	Respiratory Pr	otection	✓ Slip/Trip/Fa	ll Hazards	Specific Job S	Sequence/Exp	ectations
		✓ FRC/Protectiv	e Clothing	Additional Che	emical/Acid PPE	✓ Overhead H	lazards	✓ Muster Point	/Medical Loca	itions
		✓ Hearing Prote	ection	✓ Fire Extinguish	er	Additional of	concerns or is	sues noted below		
						nments				
		Muster poin	t entrance to	location. Per	son in charge	e of head co	ount Fenr	nis. Nearest	hospital (Sarden City
		KS. Emerge	ncy # 911.							
Product/ Service	- 1 Mar 1 1									Non
Code		Desci	ription		Unit of Measure	Quantity	NE DESCRIPTION OF THE PERSON O			Net Amount
CP050	H-Lite				sack	465.00				\$5,440.50
CP010	Class A Cement				sack	150.00				\$2,295.00
CP140	Granulated Salt				lb	1,215.00				\$546.75
CP116	Water Control Agent				lb	81.00				\$1,822.50
CP112	Sodium Metasilicate	1			lb	141.00				\$190.35
CP105	Gypsum				lb	282.00				\$253.80
CP120	Cello-flake				lb	137.00				\$215.78
	8 5/8" Guide Shoe				ea	1.00				\$540.00
FE250	8 5/8" Centralizer				ea	6.00				\$486.00
	8 5/8" AFU Flapper I	Insert Valve			ea	1.00				\$337.50
FE285	8 5/8" Rubber Plug				ea	1.00				\$157.50
M015	Light Equipment Mile	eage			mi	80.00				\$144.00
M010	Heavy Equipment M	lileage			mi	160.00				\$576.00
M020	Ton Mileage				tm	2,184.00				\$2,948.40
C050	Cement Plug Contai	ner			job	1.00				\$225.00
D010	Depth Charge: 0'-50	0'			job	1.00				\$900.00
Custo	mer Section: On the	e following scale h	ow would you rate I	Hurricane Services	Inc.?				Net:	\$17,079.08
						Total Taxable	\$ -	Tax Rate:		
Ba	sed on this job, hov	w likely is it you w	vould recommend	HSI to a colleague	97	State tax laws de used on new well		fucts and services ix exempt.	Sale Tax:	\$ -
							s relies on the	customer provided		
U	Inlikely 1 2 3	3 4 5	6 7 8	9 10 Ex	tremely Likely	services and/or p			Total:	\$ 17,079.08
						UCI Danze -	ntativa	Tours Com		
						HSI Represe		Fennis Gara		
TERMS: Cash in adva	nce unless Hurricane S	services Inc. (HSI) ha	s approved credit pri	or to sale. Credit term	s of sale for approved	accounts are total	l invoice due o	n or before the 30th	day from the d	ate of invoice. Past

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. <u>DISCLAIMER NOTICE</u>: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

,	CUSTOMER AUTHORIZATION SIGNATURE
^	CUSTOWER AUTHORIZATION SIGNATURE



CEMENT TRE	ATMEN	IT REP	ORT	A CONTRACTOR	2 -14-5-34-18-7	A Section of the second		
Customer:	Petrole	um Deve	elopment	Well:	WLSR 1-13	Ticket:	WP1837	
City, State:				County:	Kearny KS	Date:	9/9/2021	
Field Rep:	Field Rep: Fennis Garduno			S-T-R:	13-22S-35W	Service:	8.625" Surface	
Downhole	Informati	on		Calculated Slu	ırry - Lead	Calcu	ılated Slurry - Tail	
Hole Size:	12.25	in		Blend:	65/35/6 POZ MIX	Blend:	Class A	
Hole Depth: 1851 ft			Weight:	11.3 ppg	Weight:	13.2 ppg		
Casing Size: 8 5/8 in			Water / Sx:	16.5 gal / sx	Water / Sx:	9.8 gal / sx		
Casing Depth:				Yield:	2.73 ft ³ / sx	Yield:	1.81 ft ³ / sx	
Tubing / Liner:		in		Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.	
Depth:		ft		Depth:	ft	Depth:	ft	
Tool / Packer: Tool Depth:		ft		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls	
Displacement:				Excess:	000 0 111	Excess:	40 F bble	
o is praise intenti	114.0	STAGE	TOTAL	Total Slurry: Total Sacks:	226.0 bbls 465 sx	Total Slurry: Total Sacks:	48.5 bbls 150 sx	
TIME RATE	PSI	BBLs	BBLs	REMARKS	MOD 2V	Total Sacks:	100 37	
5:00 PM				Deliver float equipment	9-8-21			
1:20 AM				Rig call 9-9-21				
2:30 AM				Journey management me	eeting			
2:45 AM			•	Convoy to location				
4:15 AM			-	Arrive on location / safet	y meeting			
4:20 AM				Spot in / rig up equipmer	nt			
			-	Total pipe ran 1841.54' sl	noe jt 42.16' AFU insert @ 1799.	38'		
9:00 AM	300.0		•	Rig land casing , drop ba	ill , blow insert , circulate			
9:20 AM 6.0	230.0	10.0	10.0	Hook cementing equipm	ent to casing , pump fresh wate	r spacer		
9:24 AM 8.0	310.0	226.0	236.0	Mix 465 sx 65/35/6 pozmi	Mix 465 sx 65/35/6 pozmix 2 11.3 ppg			
9:55 AM 7.0	240.0	48.5	284.5	Mix 150 sx Class A wl ad	ditives @ 13.2 ppg			
10:00 AM				S/D drop plug				
10:05 AM 6.0	30.0				ement washing up on top of plu	g		
10:16 AM 6.0	120.0	50.0		See cement to surface				
10:20 AM 6.0	250.0	70.0		See lift pressure				
10:25 AM 3.0	300.0	100.0		Slow to land plug		-1		
10:30 AM 3.0	800.0	114.6		Check floats , floats held	ast circulation pressure of 300 p	ISI		
10:35 AM 10:40 AM					tiner shut in on casing NO PRE	SSIIDE per company rep reque	et	
11:00 AM				Rig down , leave location		Source per company rep reque	-	
11.00 Ail					132 SX POZ MIX TO SURFACE			
	CREW			UNIT	A C 975	SUMMARY		
Cementer:	Fenn	is		194/250	Average Rate	Average Pressure	Total Fluid	
Pump Operator:	Mike			180/520	5.6 bpm	258 psi	619 bbls	
Bulk #1:	Kale			242				
Bulk #2:								

ftv: 13-2021/01/19 mplv: 105-2021/01/27

