

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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 II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Pioneer Oil Company, Inc.
Well Name	SMOKY HILL SOUTH SHS 12-13
Doc ID	1669823

All Electric Logs Run

DIL / MEL
CDNL / PE
Sonic
BHV

Form	ACO1 - Well Completion
Operator	Pioneer Oil Company, Inc.
Well Name	SMOKY HILL SOUTH SHS 12-13
Doc ID	1669823

Tops

Name	Top	Datum
Anhydrte	2413	+604
Oread	3816	-799
Heebner	3872	-866
Toronto	3888	-871
Lansing	3913	-896
Stark	4165	-1146
Hushpuckney	4205	-1166
BKC	4236	-1219
Marmaton	4282	-1265
Altamont	4307	-1290
Pawnee	4375	-1368
Myrick	4416	-1398
Ft. Scott	4432	-1415
Cher SH	4462	-1445
Johnson ZN	4505	-1468
Morrow SH	4563	-1546
Morrow SD	4606	-1583
Miss	4623	-1606



DRILL STEM TEST REPORT

Prepared For: **Pioneer Oil Co., Inc**

PO Box 237
Vincennes, IN 47501

ATTN: Jarred Leis

13-14s-34w Logan,KS

Smokey Hill South SHS #12-13

Start Date: 2022.07.22 @ 09:18:00

End Date: 2022.07.22 @ 18:29:20

Job Ticket #: 67342 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.03 @ 11:37:26

Pioneer Oil Co., Inc

Smokey Hill South SHS #12-13

13-14s-34w Logan,KS

DST # 1

LKC "H - J"

2022.07.22



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pioneer Oil Co., Inc
 PO Box 237
 Vincennes, IN 47501
 ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
 Job Ticket: 67342 **DST#: 1**
 Test Start: 2022.07.22 @ 09:18:00

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:18:36
 Time Test Ended: 18:29:20
 Interval: **4072.00 ft (KB) To 4154.00 ft (KB) (TVD)**
 Total Depth: 4154.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: James Winder
 Unit No: 73
 Reference Elevations: 3017.00 ft (KB)
 3006.00 ft (CF)
 KB to GR/CF: 11.00 ft

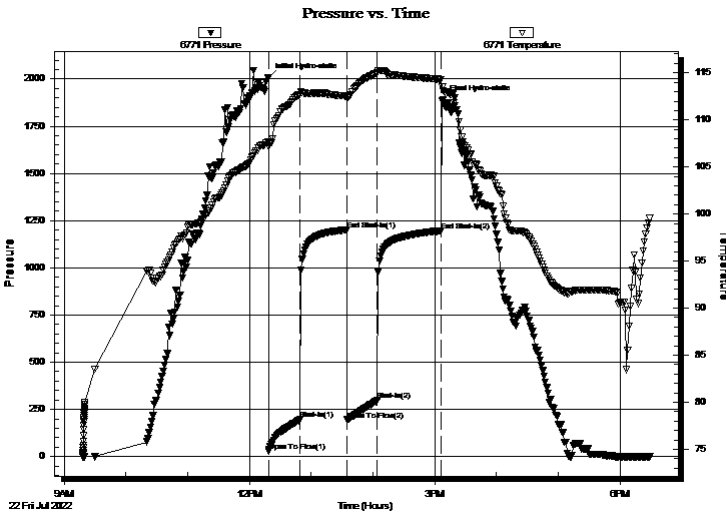
Serial #: 6771

Inside

Press@RunDepth: 297.00 psig @ 4073.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.22 End Date: 2022.07.22 Last Calib.: 2022.07.22
 Start Time: 09:18:01 End Time: 18:29:20 Time On Btm: 2022.07.22 @ 12:18:21
 Time Off Btm: 2022.07.22 @ 15:08:21

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 15 min., built to 19"
 45 - IS: No blow
 30 - FF: Blow built to BOB at 16 min., built to 18"
 60 - FS: No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.70	107.66	Initial Hydro-static
1	27.10	107.12	Open To Flow (1)
31	194.95	112.75	Shut-In(1)
76	1201.08	112.55	End Shut-In(1)
77	194.30	112.33	Open To Flow (2)
106	297.00	115.03	Shut-In(2)
168	1195.39	114.30	End Shut-In(2)
170	1889.06	113.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
181.00	MCW w/trace oil 75%w , 22%m, 3%g	0.89
312.00	MW w/trace oil 59%w , 39%m, 2%g	4.38
125.00	Mud w/trace oil 100%m	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67342 **DST#: 1**
Test Start: 2022.07.22 @ 09:18:00

Tool Information

Drill Pipe:	Length: 3869.00 ft	Diameter: 3.80 inches	Volume: 54.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4072.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	115.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4040.00	
Shut In Tool	5.00			4045.00	
Hydraulic tool	5.00			4050.00	
Jars	5.00			4055.00	
EM Tool	4.00			4059.00	
Safety Joint	3.00			4062.00	
Packer	5.00			4067.00	33.00 Bottom Of Top Packer
Packer	5.00			4072.00	
Stubb	1.00			4073.00	
Recorder	0.00	6771	Inside	4073.00	
Recorder	0.00	8367	Outside	4073.00	
Perforations	13.00			4086.00	
Blank Spacing	65.00			4151.00	
Bullnose	3.00			4154.00	82.00 Bottom Packers & Anchor

Total Tool Length: 115.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67342 **DST#: 1**
Test Start: 2022.07.22 @ 09:18:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	14000 ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	MCW w /trace oil 75%w , 22%m, 3%g	0.890
312.00	MW w /trace oil 59%w , 39%m, 2%g	4.377
125.00	Mud w /trace oil 100%m	1.753

Total Length: 618.00 ft Total Volume: 7.020 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW = .321 ohms @ 97.6 deg F Chlorides = 14,000 ppm

Serial #: 6771

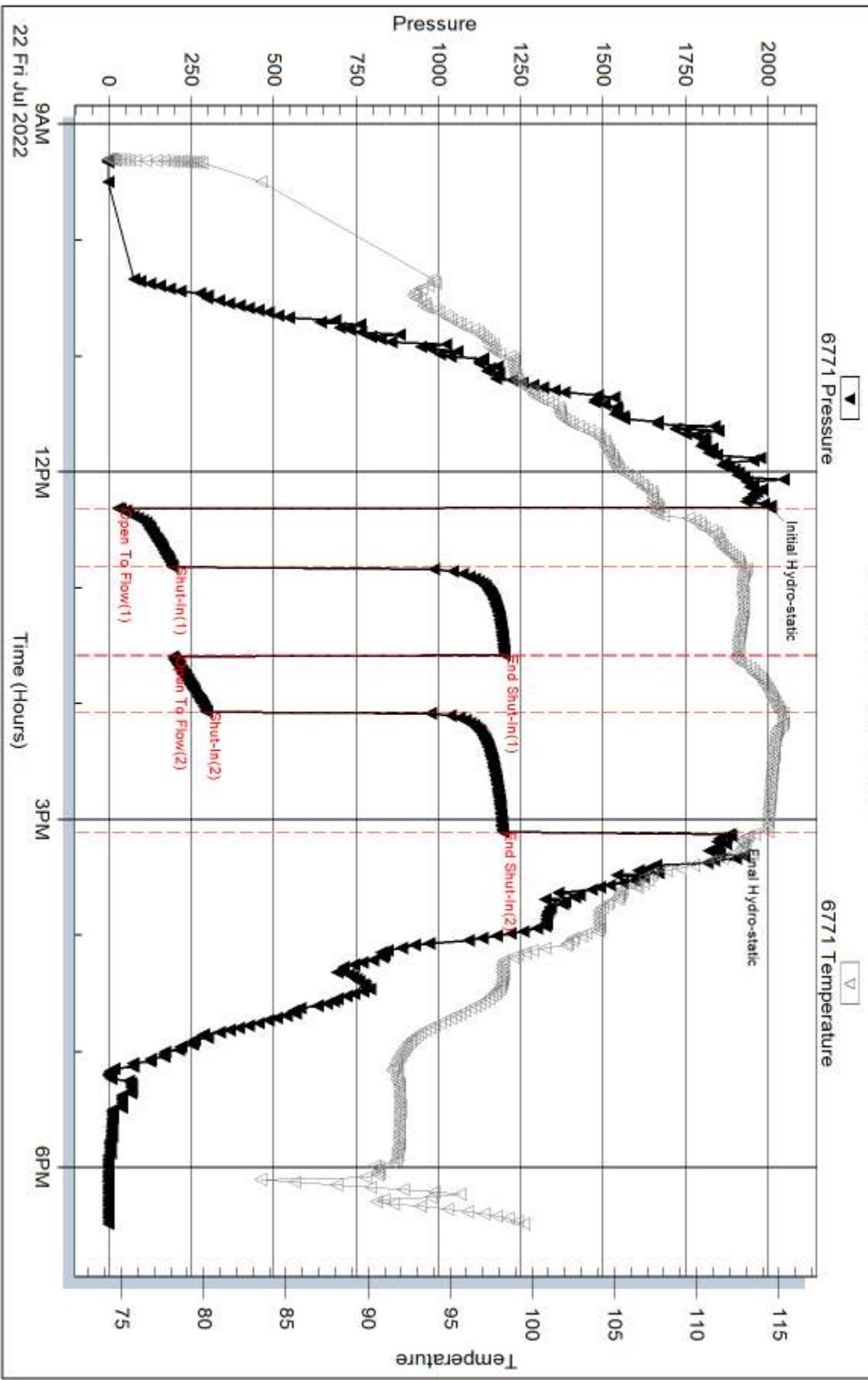
Inside

Pioneer Oil Co., Inc

13-14s-34w Logan, KS

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 67342

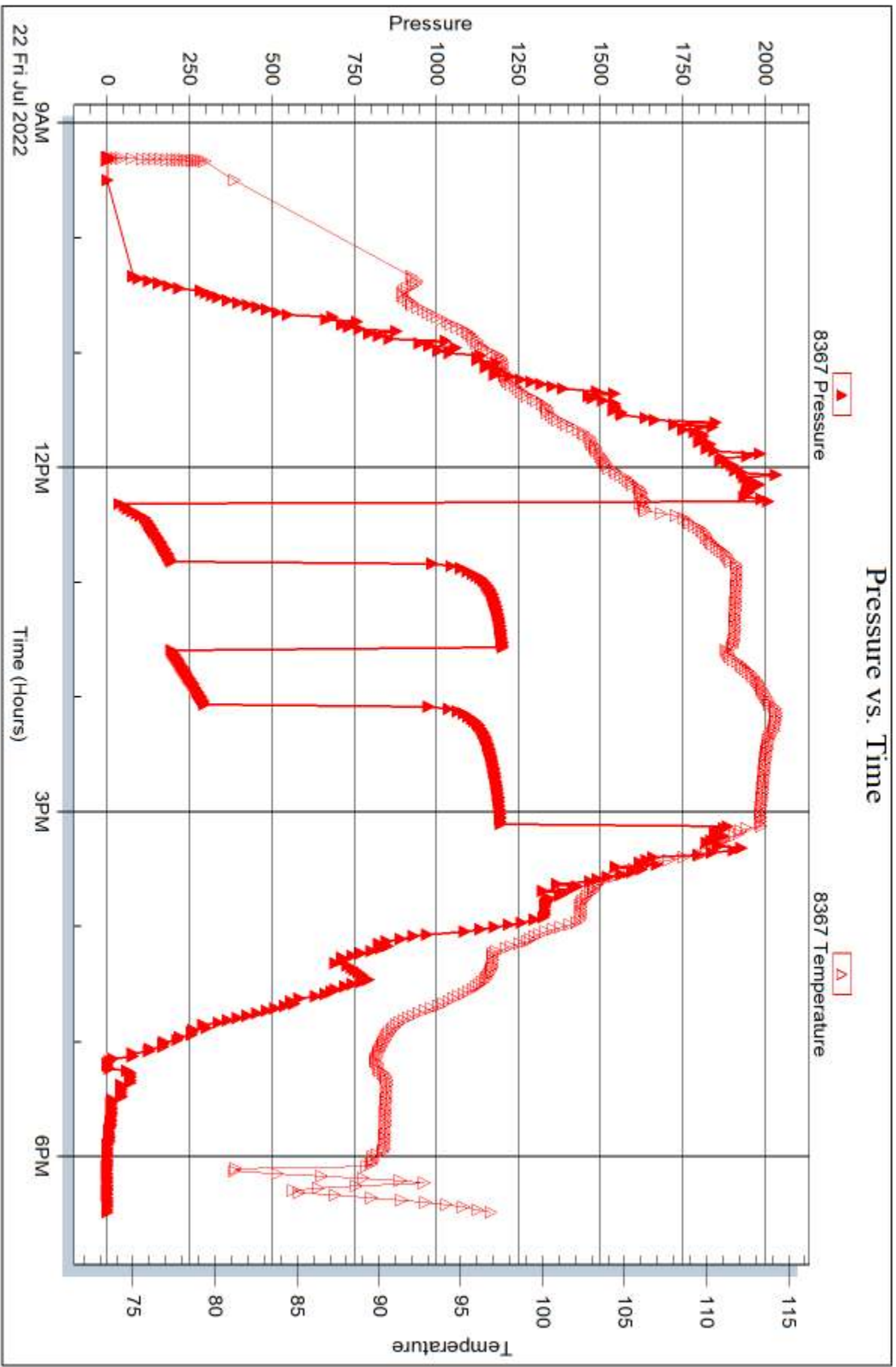
Printed: 2022.08.03 @ 11:37:30

Serial #: 8367

Outside Pioneer Oil Co., Inc

13-14s-34w Logan, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67342

Printed: 2022.08.03 @ 11:37:30



DRILL STEM TEST REPORT

Prepared For: **Pioneer Oil Co., Inc**

PO Box 237
Vincennes, IN 47501

ATTN: Jarred Leis

13-14s-34w Logan,KS

Smokey Hill South SHS #12-13

Start Date: 2022.07.23 @ 21:32:00

End Date: 2022.07.24 @ 07:40:35

Job Ticket #: 67343 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.03 @ 11:35:52



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pioneer Oil Co., Inc
 PO Box 237
 Vincennes, IN 47501
 ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan, KS
 Job Ticket: 67343 **DST#: 2**
 Test Start: 2022.07.23 @ 21:32:00

GENERAL INFORMATION:

Formation: **Marmaton - Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:30:51
 Time Test Ended: 07:40:35
 Interval: **4252.00 ft (KB) To 4370.00 ft (KB) (TVD)**
 Total Depth: 4370.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: James Winder
 Unit No: 73
 Reference Elevations: 3017.00 ft (KB)
 3006.00 ft (CF)
 KB to GR/CF: 11.00 ft

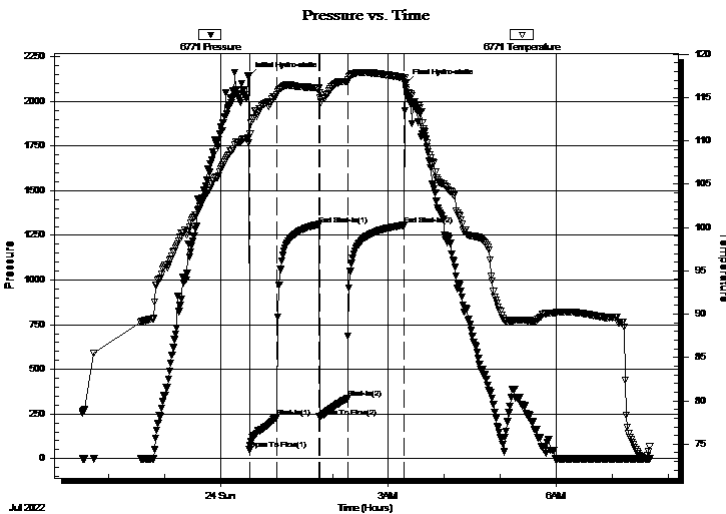
Serial #: 6771

Inside

Press@RunDepth: 337.90 psig @ 4253.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.07.23 End Date: 2022.07.24 Last Calib.: 2022.07.24
 Start Time: 21:32:01 End Time: 07:40:35 Time On Btm: 2022.07.24 @ 00:30:21
 Time Off Btm: 2022.07.24 @ 03:18:21

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 7 1/2 min., built to 28"
 45 - IS: Blow back built to 4 1/2"
 30 - FF: Blow built to BOB at 9 min., built to 24 3/4"
 60 - FS: Blow back built to 4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2140.87	109.75	Initial Hydro-static
1	49.92	109.72	Open To Flow (1)
31	232.82	115.33	Shut-In(1)
75	1310.92	116.08	End Shut-In(1)
76	234.15	115.57	Open To Flow (2)
106	337.90	116.83	Shut-In(2)
167	1306.53	117.25	End Shut-In(2)
168	2098.86	116.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SWMCGO 63%o, 20%g, 11%m, 6%w	0.30
184.00	GMCO 73%o, 15%g, 12%m	1.48
311.00	GMO 48%o, 32%m, 20%g	4.36
255.00	GO 74%o, 23%g, 3%m	3.58

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan, KS
Job Ticket: 67343 **DST#: 2**
Test Start: 2022.07.23 @ 21:32:00

Tool Information

Drill Pipe:	Length: 4057.00 ft	Diameter: 3.80 inches	Volume: 56.91 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 57.80 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4252.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	151.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4220.00	
Shut In Tool	5.00			4225.00	
Hydraulic tool	5.00			4230.00	
Jars	5.00			4235.00	
EM Tool	4.00			4239.00	
Safety Joint	3.00			4242.00	
Packer	5.00			4247.00	33.00 Bottom Of Top Packer
Packer	5.00			4252.00	
Stubb	1.00			4253.00	
Recorder	0.00	6771	Inside	4253.00	
Recorder	0.00	8367	Outside	4253.00	
Perforations	13.00			4266.00	
Blank Spacing	96.00			4362.00	
Perforations	5.00			4367.00	
Bullnose	3.00			4370.00	118.00 Bottom Packers & Anchor

Total Tool Length: 151.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67343 **DST#: 2**
Test Start: 2022.07.23 @ 21:32:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28.4 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.76 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

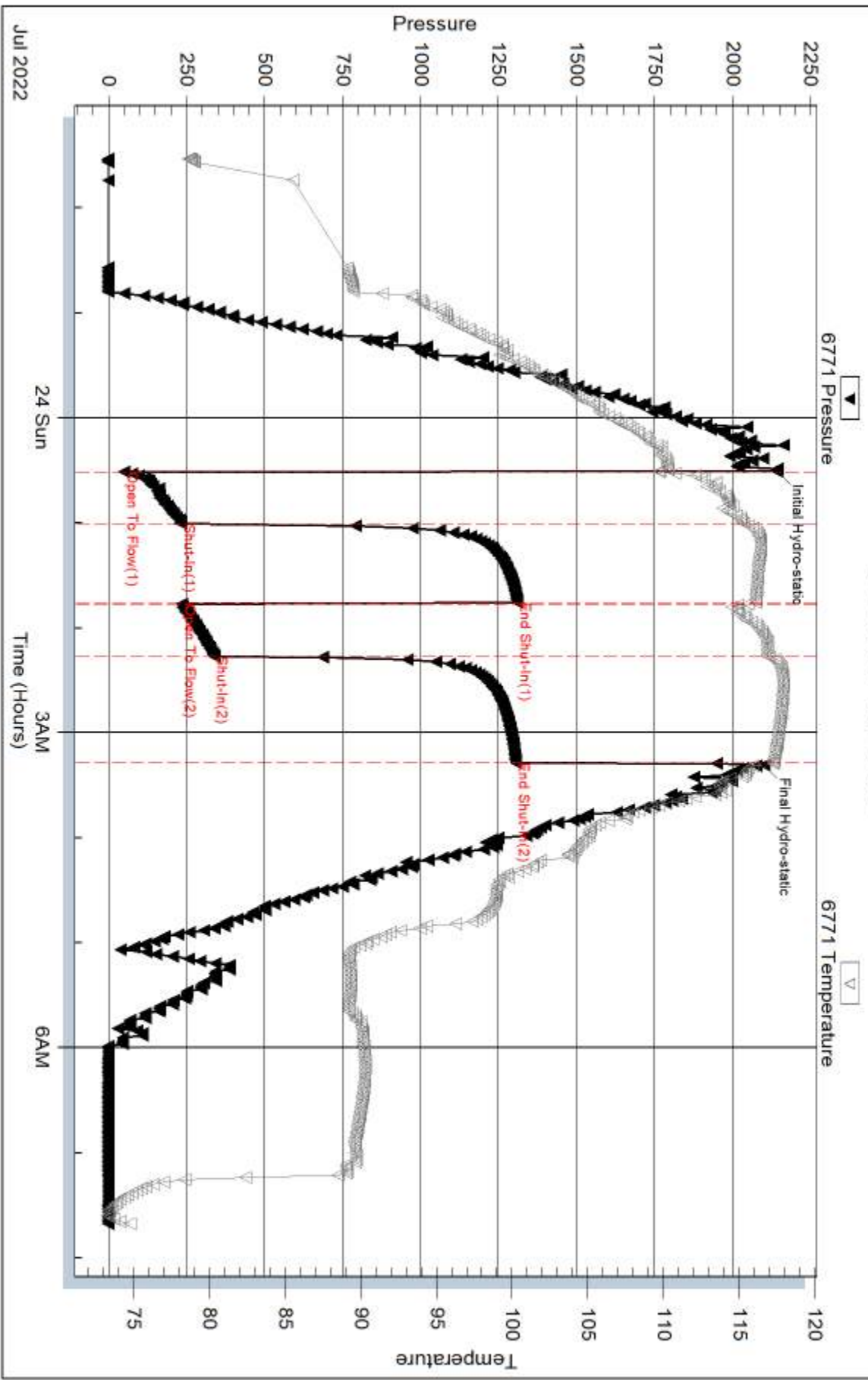
Recovery Information

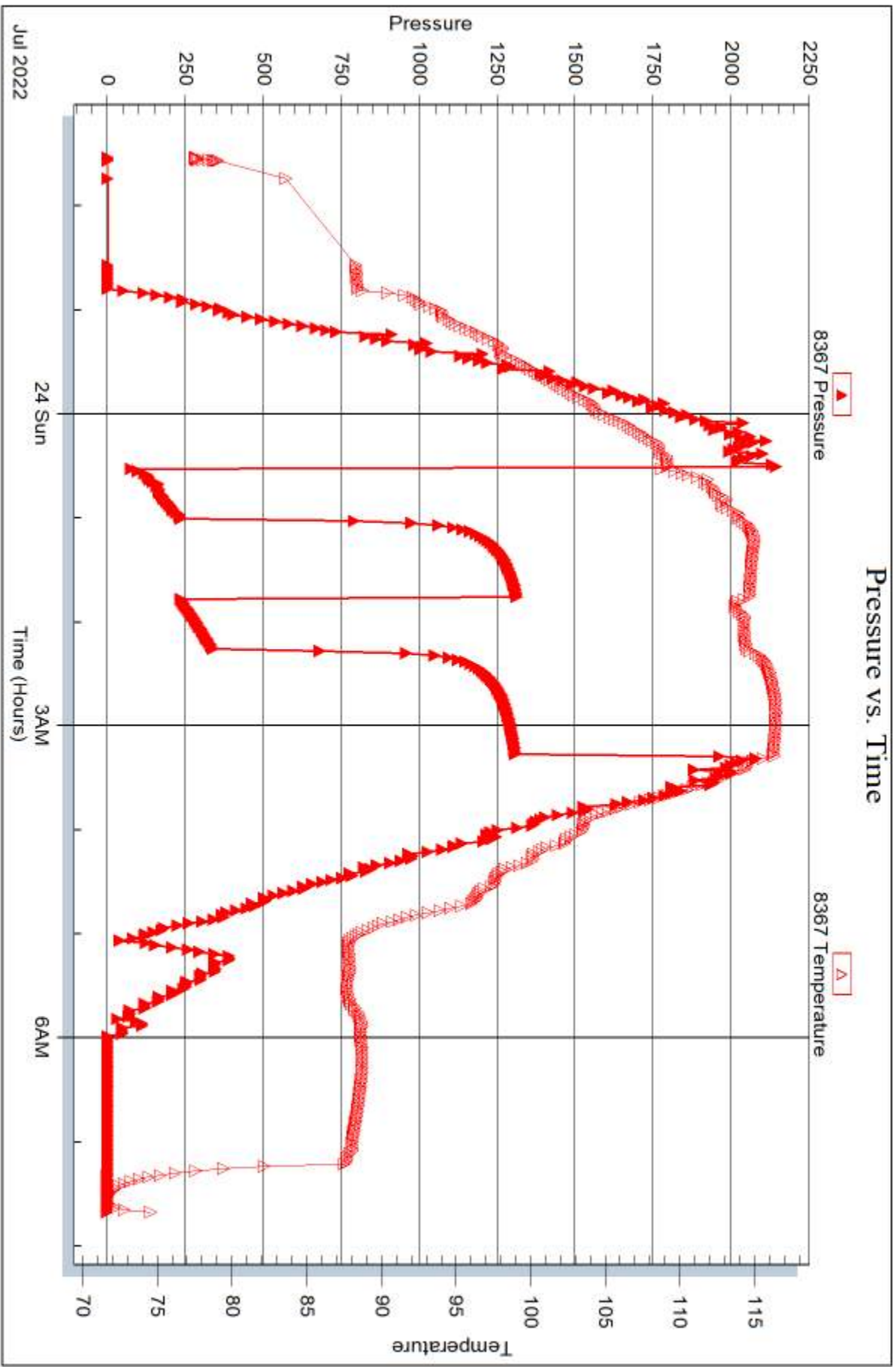
Recovery Table

Length ft	Description	Volume bbl
60.00	SWMCGO 63%o, 20%g, 11%m, 6%w	0.295
184.00	GMCO 73%o, 15%g, 12%m	1.479
311.00	GMO 48%o, 32%m, 20%g	4.363
255.00	GO 74%o, 23%g, 3%m	3.577

Total Length: 810.00 ft Total Volume: 9.714 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Gravity = 30 api @ 76 deg F Corrected Gravity = 28.4 api

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Pioneer Oil Co., Inc**

PO Box 237
Vincennes, IN 47501

ATTN: Jarred Leis

13-14s-34w Logan,KS

Smokey Hill South SHS #12-13

Start Date: 2022.07.25 @ 03:59:00

End Date: 2022.07.25 @ 13:23:35

Job Ticket #: 67344 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.03 @ 11:34:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67344 **DST#: 3**
Test Start: 2022.07.25 @ 03:59:00

Tool Information

Drill Pipe:	Length: 4210.00 ft	Diameter: 3.80 inches	Volume: 59.06 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 59.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4400.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	83.00 ft			
Tool Length:	116.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4368.00	
Shut In Tool	5.00			4373.00	
Hydraulic tool	5.00			4378.00	
Jars	5.00			4383.00	
EM Tool	4.00			4387.00	
Safety Joint	3.00			4390.00	
Packer	5.00			4395.00	33.00 Bottom Of Top Packer
Packer	5.00			4400.00	
Stubb	1.00			4401.00	
Recorder	0.00	6771	Inside	4401.00	
Recorder	0.00	8367	Outside	4401.00	
Perforations	13.00			4414.00	
Blank Spacing	65.00			4479.00	
Perforations	1.00			4480.00	
Bullnose	3.00			4483.00	83.00 Bottom Packers & Anchor

Total Tool Length: 116.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67344 **DST#: 3**
Test Start: 2022.07.25 @ 03:59:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

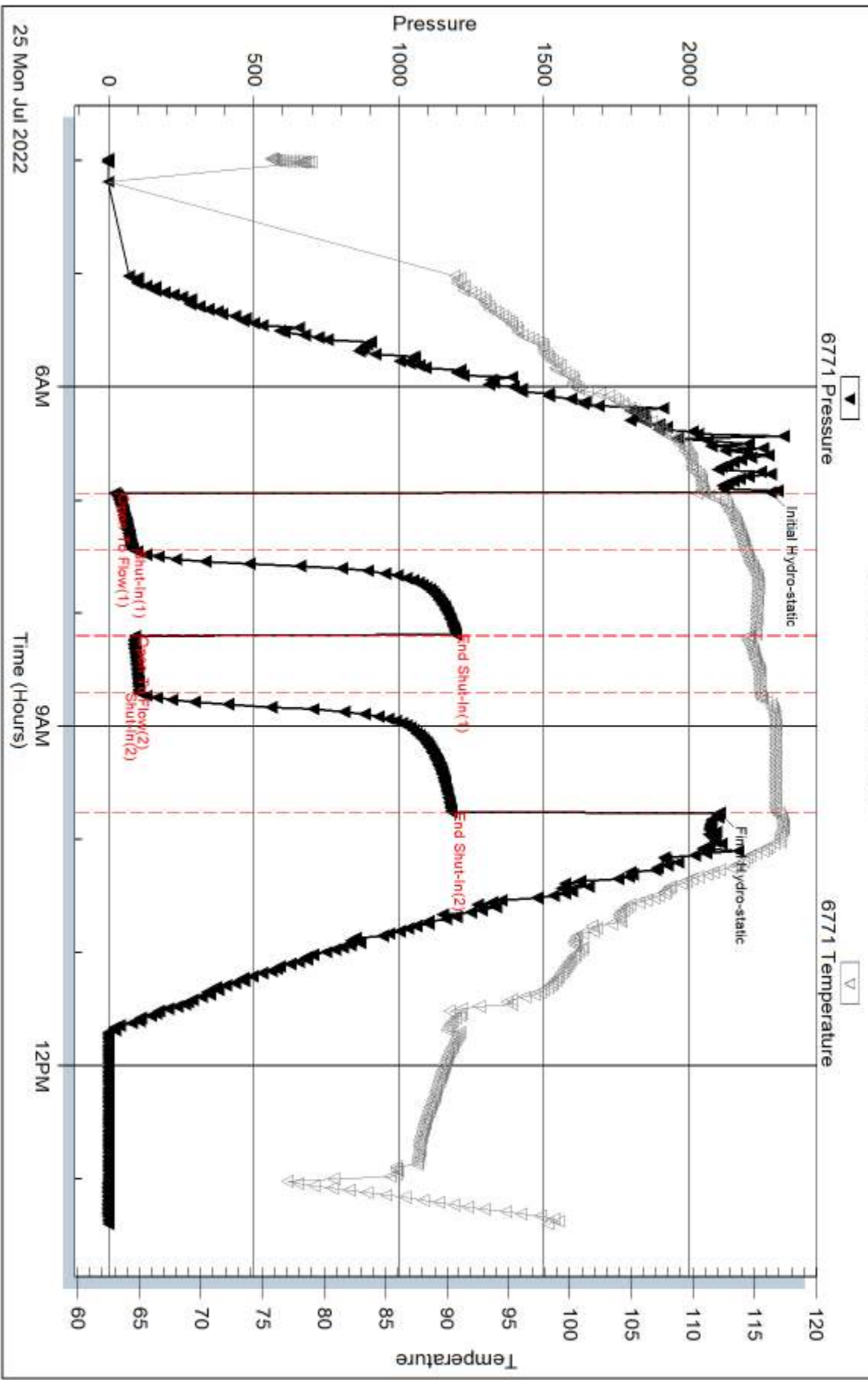
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
181.00	WMCGO 37%o, 32%g, 22%m, 9%w	0.890
35.00	OCM 66%m, 32%o, 2%g	0.491
0.00	GIP = 410'	0.000

Total Length: 216.00 ft Total Volume: 1.381 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time

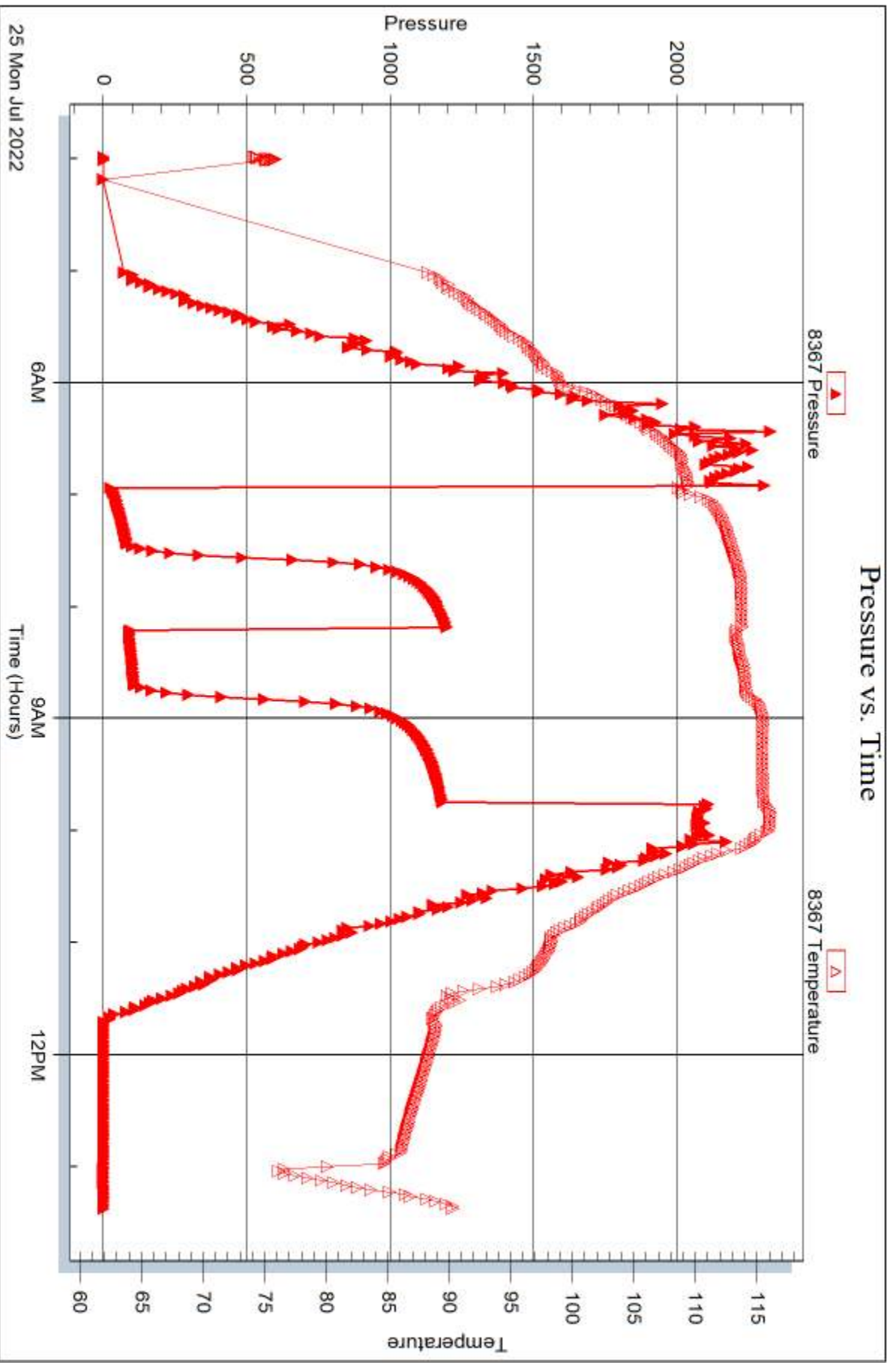


Serial #: 8367

Outside Pioneer Oil Co., Inc

13-14s-34w Logan, KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 67344

Printed: 2022.08.03 @ 11:34:09



DRILL STEM TEST REPORT

Prepared For: **Pioneer Oil Co., Inc**

PO Box 237
Vincennes, IN 47501

ATTN: Jarred Leis

13-14s-34w Logan,KS

Smokey Hill South SHS #12-13

Start Date: 2022.07.26 @ 03:30:00

End Date: 2022.07.26 @ 11:13:21

Job Ticket #: 67345 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.08.03 @ 11:33:03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

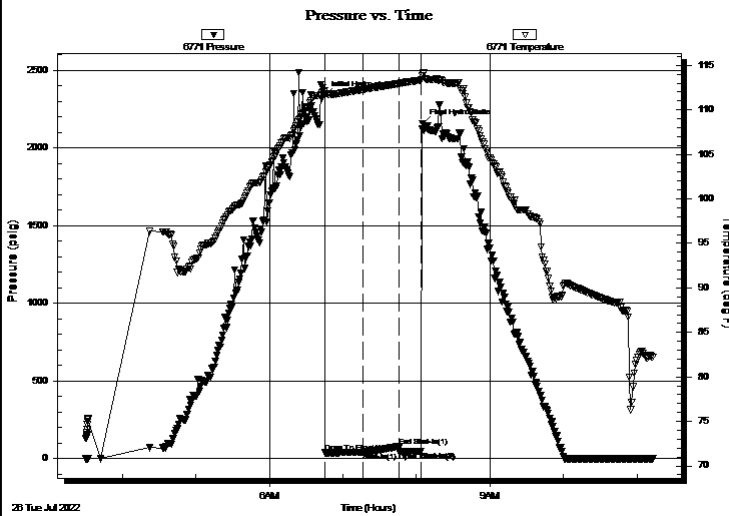
Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67345 **DST#: 4**
Test Start: 2022.07.26 @ 03:30:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:45:21
Time Test Ended: 11:13:21
Interval: **4480.00 ft (KB) To 4553.00 ft (KB) (TVD)**
Total Depth: 4553.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: James Winder
Unit No: 73
Reference Elevations: 3017.00 ft (KB)
3006.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6771 Inside
Press@RunDepth: 39.44 psig @ 4481.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.07.26 End Date: 2022.07.26 Last Calib.: 2022.07.26
Start Time: 03:30:01 End Time: 11:13:21 Time On Btm: 2022.07.26 @ 06:44:51
Time Off Btm: 2022.07.26 @ 08:05:06

TEST COMMENT: 30 - IF: 1/8" Blow at open, slowly died back, dead by close
30 - IS: No blow
20 - FF: No blow
Pulled tools



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.71	112.17	Initial Hydro-static
1	38.06	111.80	Open To Flow (1)
32	39.44	112.28	Shut-In(1)
61	78.32	112.93	End Shut-In(1)
62	43.19	112.94	Open To Flow (2)
80	46.10	113.33	Shut-In(2)
81	2155.68	114.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud w /trace oil	0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67345 **DST#: 4**
Test Start: 2022.07.26 @ 03:30:00

Tool Information

Drill Pipe:	Length: 4275.00 ft	Diameter: 3.80 inches	Volume: 59.97 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 181.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 82000.00 lb
		Total Volume: 60.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4480.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4448.00	
Shut In Tool	5.00			4453.00	
Hydraulic tool	5.00			4458.00	
Jars	5.00			4463.00	
EM Tool	4.00			4467.00	
Safety Joint	3.00			4470.00	
Packer	5.00			4475.00	33.00 Bottom Of Top Packer
Packer	5.00			4480.00	
Stubb	1.00			4481.00	
Recorder	0.00	6771	Inside	4481.00	
Recorder	0.00	8367	Outside	4481.00	
Perforations	35.00			4516.00	
Blank Spacing	33.00			4549.00	
Perforations	1.00			4550.00	
Bullnose	3.00			4553.00	73.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pioneer Oil Co., Inc
PO Box 237
Vincennes, IN 47501
ATTN: Jarred Leis

Smokey Hill South SHS #12-13
13-14s-34w Logan,KS
Job Ticket: 67345 **DST#: 4**
Test Start: 2022.07.26 @ 03:30:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

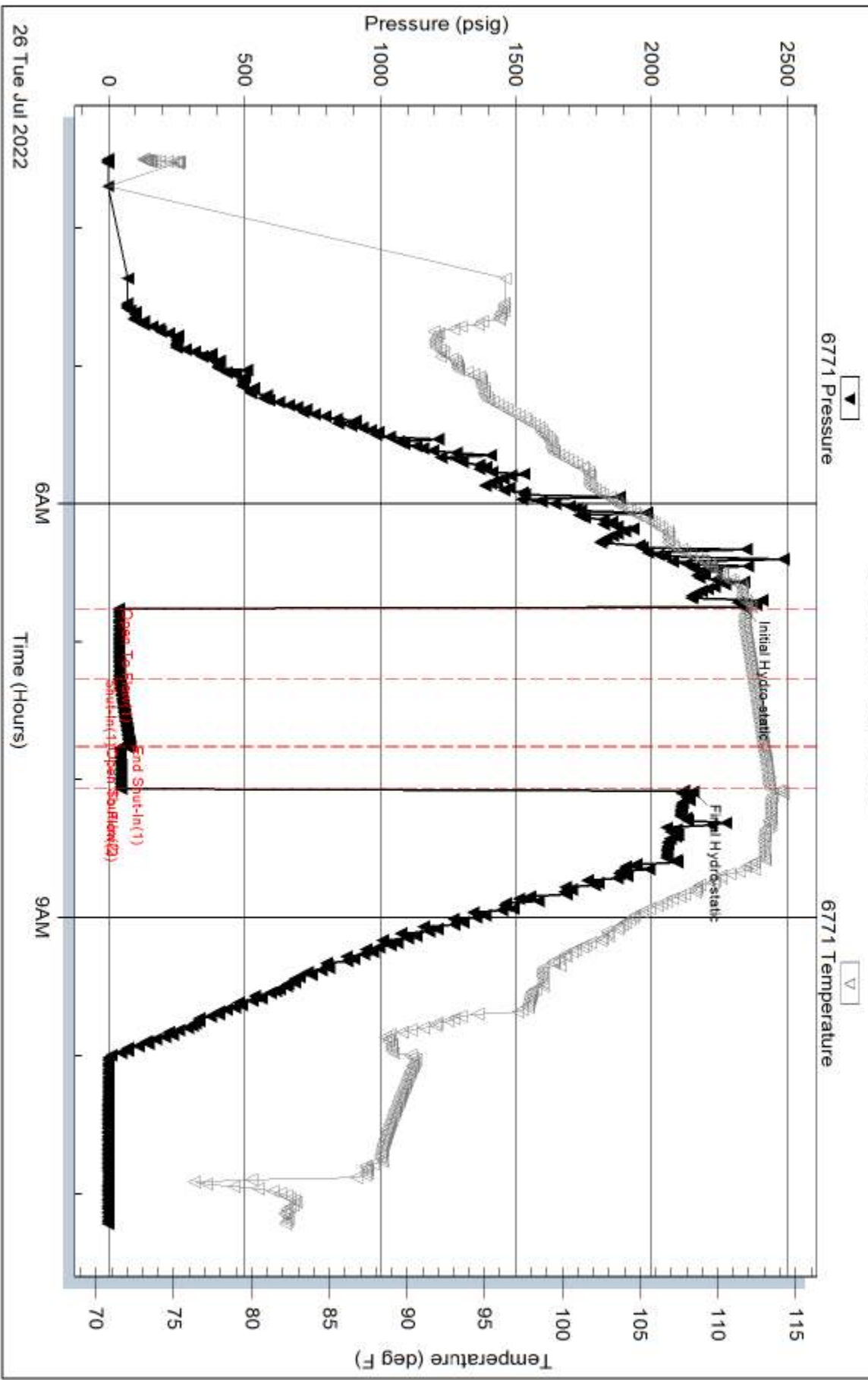
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Mud w /trace oil	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Pressure vs. Time



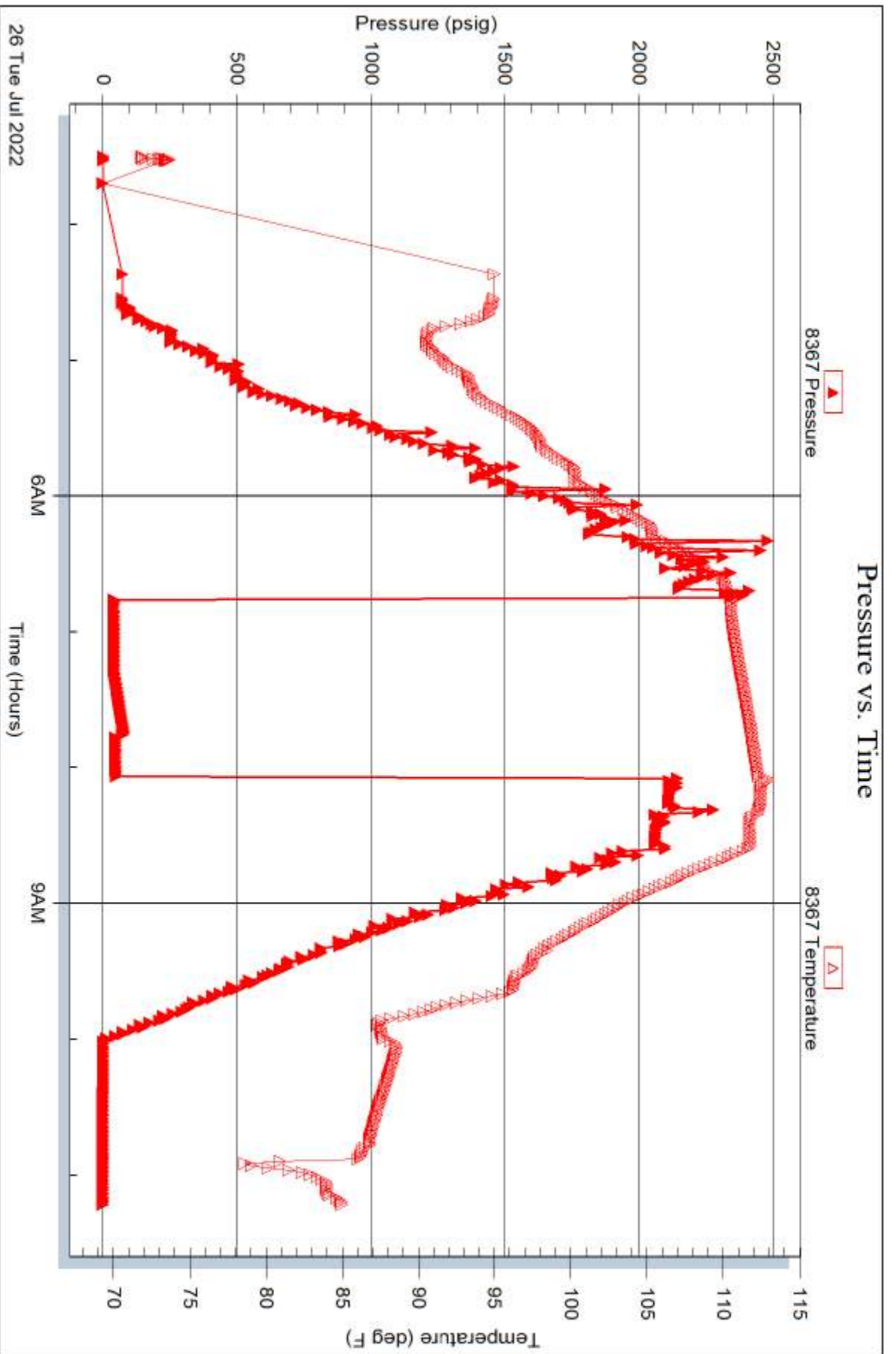
26 Tue Jul 2022

Serial #: 8367

Outside Pioneer Oil Co., Inc

13-14s-34w Logan, KS

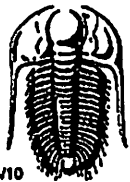
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 67345

Printed: 2022.08.03 @ 11:33:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67342

Well Name & No. Smokey Hill South SHS #12-13 Test No. 1 Date 7-22-22
 Company Pioneer Oil Co. Inc. Elevation 3017 KB 3006 GL
 Address 400 Main St PO Box 237 Vincennes IN 47501
 Co. Rep / Geo. Jarred Leis Rig Murfin #22
 Location: Sec. 13 Twp 14s Rge. 34w Co. Logan State KS

Interval Tested 4072 - 4154 Zone Tested Lans. "H-J"
 Anchor Length 82 Drill Pipe Run 3869 Mud Wt. 8.9
 Top Packer Depth 4067 Drill Collars Run 181 Vis 59
 Bottom Packer Depth 4072 Wt. Pipe Run - WL 7.2
 Total Depth 4154 Chlorides 4000 ppm System LCM 6

Blow Description IF: Blow built to BOB (11") at 15 min., built to 19"
ISI: No blow
FF: Blow built to BOB at 16 min., built to 18"
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>125</u>	<u>Mud w/trace oil</u>	<u>trace</u>	<u>trace</u>	<u>100</u>	<u>0</u>
<u>312</u>	<u>MW w/trace oil</u>	<u>2</u>	<u>trace</u>	<u>59</u>	<u>39</u>
<u>181</u>	<u>MCW w/trace oil</u>	<u>3</u>	<u>trace</u>	<u>75</u>	<u>22</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 618 BHT 114 Gravity _____ API RW .321 @ 97.6° F Chlorides 14,000 ppm

(A) Initial Hydrostatic 2007
 (B) First Initial Flow 27
 (C) First Final Flow 195
 (D) Initial Shut-In 1201
 (E) Second Initial Flow 194
 (F) Second Final Flow 297
 (G) Final Shut-In 1195
 (H) Final Hydrostatic 1889

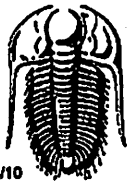
Test 1950
 Jars 300
 Safety Joint _____
 Circ Sub _____
 Hourly Standby _____
 Mileage 70 RT 105
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2355

T-On Location 8:10
 T-Started 9:18
 T-Open 12:18
 T-Pulled 15:06
 T-Out 18:25

Comments _____
 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2355
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 60

Approved By _____ Our Representative James Winkler
 Triobite 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 loss 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67343

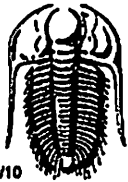
Well Name & No. Smakey Hill South SHS #12-13 Test No. 2 Date 7-23-22
 Company Pioneer Oil Co. Inc Elevation 3017 KB 3006 GL
 Address 400 Main St PO Box 237 Vincennes IN 47501
 Co. Rep / Geo. Jarred Leis Rig Murfin #22
 Location: Sec. 13 Twp 14s Rge. 34w Co. Logan State KS

Interval Tested 4252 - 4370 Zone Tested Marmaton, Altamont
 Anchor Length 118 Drill Pipe Run 4057 Mud Wt. 9.0
 Top Packer Depth 4247 Drill Collars Run 180 Vis 49
 Bottom Packer Depth 4252 Wt. Pipe Run - WL 8.8
 Total Depth 4370 Chlorides 5000 ppm System LCM 5
 Blow Description IF: Blow built to BOB (11") at 7 1/2 min, built to 28"
ISI: Blowback built to 4 1/2"
FF: Blow built to BOB at 9 min, 24 3/4"
FST: Blowback built to 4'

Rec	Feet of	%gas	%oil	%water	%mud
255 311	60	23	74	3	
311 311	GMO	20	48	32	
184 184	GmCO	15	73	12	
60 60	swmcGO	20	63	6	11
	GIP = 60'				

Rec Total 810 BHT 117 Gravity 28.4 API RW @ °F Chlorides ppm
 (A) Initial Hydrostatic 2141 Test 1950 T-On Location 20:45
 (B) First Initial Flow 50 Jars 300 T-Started 21:32
 (C) First Final Flow 233 Safety Joint _____ T-Open 00:30
 (D) Initial Shut-In 1311 Circ Sub _____ T-Pulled 3:17
 (E) Second Initial Flow 234 Hourly Standby _____ T-Out 7:35
 (F) Second Final Flow 338 Mileage 20RT 105 Comments _____
 (G) Final Shut-In 1307 Sampler _____
 (H) Final Hydrostatic 2099 Straddle _____
 Initial Open 30 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 30 Extra Recorder _____
 Final Shut-In 60 Day Standby _____
 Sub Total 2355 Accessibility _____
 Sub Total 2355 EM Tool _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub-Total 0
 Total 2355
 MR/DST Disc't _____

Approved By _____ Our Representative Jarred Leis
 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 loss 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67344

Well Name & No. Smokey Hill South SHS #12-13 Test No. 3 Date 7-25-22
 Company Pioneer Oil Co. Inc Elevation 3017 KB 3006 GL
 Address 400 Main St PO Box 237 Vincennes IN 47501
 Co. Rep / Geo. Jarred Leis Rig Murfin #22
 Location: Sec. 13 Twp 14s Rge. 34W Co. Logan State KS

Interval Tested 4400 - 4483 Zone Tested Myric Station, Ft Scott, Verdigris
 Anchor Length 83 Drill Pipe Run 4210 Mud Wt. 9.3
 Top Packer Depth 4395 Drill Collars Run 181 Vls 52
 Bottom Packer Depth 4400 Wt. Pipe Run - WL 9.6
 Total Depth 4483 Chlorides 7000 ppm System LCM 4

Blow Description IF: Blow built to BOB (11") at 30 min.
ISI: Blowback built to 1/2"
FF: Blw built to BOB at 17 min, built to 14 1/2"
FSI: Blowback built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>OCM</u>	<u>2</u>	<u>32</u>	<u>66</u>	<u>0</u>
<u>181</u>	<u>WMCGO</u>	<u>32</u>	<u>37</u>	<u>9</u>	<u>22</u>
<u> </u>	<u>BTP = 410'</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

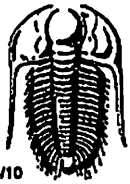
Rec Total 216 BHT 117 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2280 Test 1950 T-On Location 3:30
 (B) First Initial Flow 22 Jars 300 T-Started 3:59
 (C) First Final Flow 81 Safety Joint T-Open 6:56
 (D) Initial Shut-In 1196 Circ Sub T-Pulled 9:45
 (E) Second Initial Flow 91 Hourly Standby T-Out 13:20
 (F) Second Final Flow 106 Mileage 70RT 105 Comments
 (G) Final Shut-In 1181 Sampler
 (H) Final Hydrostatic 2106 Straddle EM Tool -175

Initial Open 30 Shale Packer Ruined Shale Packer
 Initial Shut-In 45 Extra Packer Ruined Packer
 Final Flow 30 Extra Recorder Extra Copies
 Final Shut-In 60 Day Standby Sub Total -175
 Sub Total 2355 Accessibility Total 2180
 MP/DST Disc't

Approved By Our Representative James Winkler

Triobite 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 loss 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67345

Well Name & No. Smokey Hill South SHS #12-13 Test No. 4 Date 7-26-22
 Company Pioneer Oil Co Inc Elevation 3017 KB 3006 GL
 Address 400 Main St PO Box 237 Vincennes IN 47501
 Co. Rep / Geo. Jarred Leis Rig Murfin #22
 Location: Sec. 13 Twp 14s Rge. 34w Co. Logan State KS

Interval Tested 4480 - 4553 Zone Tested Johnson
 Anchor Length 73 Drill Pipe Run 4275 Mud Wt. 9.3
 Top Packer Depth 4475 Drill Collars Run 181 Vis 52
 Bottom Packer Depth 4480 Wt. Pipe Run - WL 9.6
 Total Depth 4553 Chlorides 7000 ppm System LCM 4
 Blow Description IF: 1/8" Blow at open slowly died back, dead by close
ISI: No blow
FF: No blow

Pulled tools

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>Mud w/trace oil</u>	<u>trace</u>	<u></u>	<u>100</u>	<u></u>
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 60 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2338 Test 1950 T-On Location 2:25
 (B) First Initial Flow 38 Jars 300 T-Started 3:30
 (C) First Final Flow 39 Safety Joint _____ T-Open 6:45
 (D) Initial Shut-In 78 Circ Sub _____ T-Pulled 8:04
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 11:10
 (F) Second Final Flow 46 Mileage 70RTx2 ¹⁰⁵⁺¹⁰⁵ Comments _____
 (G) Final Shut-In _____ Sampler _____ EM Tool _____
 (H) Final Hydrostatic 2156 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 20 Extra Recorder _____ Sub Total 0
 Final Shut-In - Day Standby _____ Total 2460
 Accessibility _____ Sub Total 2460 MP/DST Disc't _____

Approved By _____ Our Representative James Winkler
 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 loss 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.

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



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

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

Laura Kelly, Governor

November 23, 2022

Brandi Stennett
Pioneer Oil Company, Inc.
400 MAIN STREET
PO BOX 237
VINCENNES, IN 47501-0237

Re: ACO-1
API 15-109-21631-00-00
SMOKY HILL SOUTH SHS 12-13
SW/4 Sec.13-14S-34W
Logan County, Kansas

Dear Brandi Stennett:

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 7/18/2022 and the ACO-1 was received on November 23, 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



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

PIONEER OIL COMPANY
PO BOX 237
VINCENNES, IN 47591-0237

Invoice Date: 7/18/2022
Invoice #: 0361880
Lease Name: Smokey Hill South SHS
Well #: 12-13 (New)
County: Logan, Ks
Job Number: WP3092
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	180.000	21.600	3,888.00
Heavy Eq Mileage	35.000	4.000	140.00
Light Eq Mileage	70.000	2.000	140.00
Ton Mileage	312.000	1.500	468.00
Depth Charge 0'-500'	1.000	960.000	960.00
Cement Blending & Mixing	180.000	1.344	241.92
Service Supervisor	1.000	264.000	264.00

Total 6,101.92

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



HURRICANE SERVICES INC

Remit To: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202
316-303-9515

Customer:

PIONEER OIL COMPANY
PO BOX 237
VINCENNES, IN 47591-0237

Invoice Date: 8/4/2022
Invoice #: 0362332
Lease Name: Smokey Hill South SHS
Well #: 12-13 (New)
County: Logan, Ks
Job Number: WP3180
District: Oakley


Date/Description	HRS/QTY	Rate	Total
Port Collar	0.000	0.000	0.00
H-CON	310.000	25.000	7,750.00
5 1/2" Shifting Tool	1.000	500.000	500.00
Light Eq Mileage	35.000	2.000	70.00
Heavy Eq Mileage	70.000	4.000	280.00
Ton Mileage	547.000	1.500	820.50
Cement Blending & Mixing	310.000	1.400	434.00
Service Supervisor	1.000	275.000	275.00
Depth Charge 2001'-3000'	1.000	2,000.000	2,000.00

Total 12,129.50

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Jarred Leis
Petroleum Geologist

201 E. Oak St
Yates Center, KS 66783
620-212-0048

Well-Site Geologists
Jarred Leis

201 E. Oak St
Yates Center, KS 66783

Software: HMG Strata Log
HMG Software LLC
PO Box 20656, Albuquerque, NM 87154
505-320-3432 www.hmgsoftwarellc.com

Operator
Pioneer Oil Company, Inc.
Well Name
Smokey Hill South #12-13

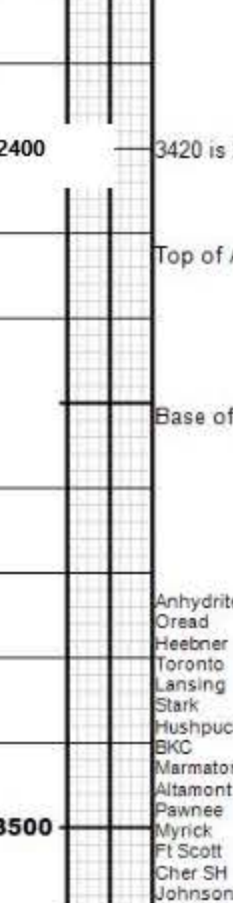
Operator Address
400 Main St.
Vincennes, IN 47501

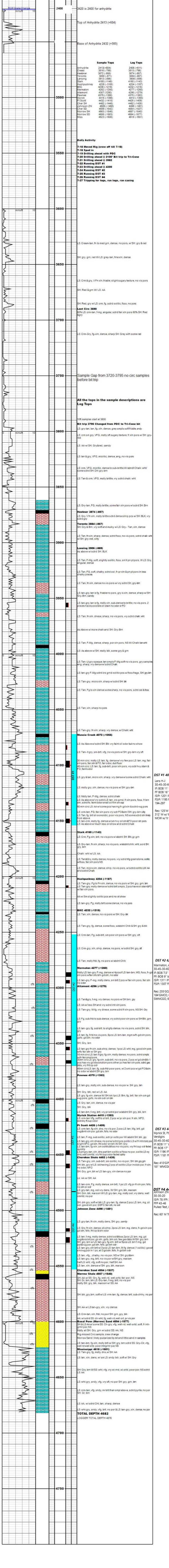
Well Information

Field: Wildcat	Ground Elevation(ft): 3006.0
Region:	KB Elevation(ft): 3017.0
Coordinates: 2275 FSL/ 780 FWL (SW-NE-NW-SW)	Spud Date: 7/18/22
	Drilling Concluded: 7/27/2022
Location: Twp 14 Rge 34W Sec 13	Pioneer Oil Company, Inc. Geologist(s):
State: Kansas, Logan	
API Index: 15-109-21631	
Rig Operator: Murfin Rig #22	Rig Supervisor(s): Jesus Vargas

Hole Data	Casing Data
	Surface Pipe: 216" 8 5/8"
	Production Casing: 5 1/2"

Legend - Scale 1:240 (1" = 20')

Notes	Log Images	
Due to the positive results of DST #2 and DST #3 and significant oil shows in the cuttings of the Marmaton, Altamont, Myrick Station, Ft Scott and Verdigris formations 5 1/2" casing was run to further evaluate these formations through operations.	<ul style="list-style-type: none"> Bit Trip Mid Trip Gas Show Oil Show Casing Show AM Report PM Report Tight Connection Fracture Formation Tops Pressure Test Carbonaceous Calcite Kaolinite Survey Pyrite Fossil Connection 	
Lithology	Graph Curves	
<ul style="list-style-type: none"> Anhydrite Bentonite Breccia Carbonaceous Shale Cement Chert Claystone Coal Conglomerate Dolomite Fault or Fracture Glaucumite Gypsum Limestone Marlstone Mudstone Sandstone Shale Siltstone 	<p>Graph #1 ROP (mins/ft)</p> 	
Intervals		
<ul style="list-style-type: none"> Circulation Connections Tops Slide Rotate Core Recovered Core Circulation 		



DST #1 4072-4084

Lans H-J
30-45-30-60
IF: BOB 11" dlied 15"
FF: BOB 16" blw bk 4.5"
ISIP: 1201 IFP: 27-195
FSIP: 1195 FFP: 22-81
ISIP: 1311 IFP: 22-81
FSIP: 1307 FFP: 234-338

Rec: 125 M w/ tr O,
312" M w/ tr O, 181"
MCW w/ abtr O

DST #2 4252-4370

Marmaton, Altamont,
30-45-30-60
IF: BOB 11" blw bk 4.5"
FF: BOB 9" blw bk 4"
ISIP: 1196 IFP: 22-81
FSIP: 1181 FFP: 91-106

Rec: 255 GO, 311" GMO,
184" GMCO, 60"
SWMCGO, 60" GIP

DST #3 4400-4483

Myrick St, Ft Scott,
Verdigris
30-45-30-60
IF: BOB 11" blw bk 1/2"
FF: BOB 17" blw bk 1/2"
ISIP: 1196 IFP: 22-81
FSIP: 1181 FFP: 91-106

Rec: 410 GIP, 35" OCM,
181" WMCGO

DST #4 4480-4553

Johnson ZN
30-30-20
ISIP: 78 IFP: 38-39
FFP: 43-46
Pulled Test, Lack of Blow
Rec: 60" M Tr O