

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 Recompletion Date \_\_\_\_\_ 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](mailto: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	SCHAMBERGER SHEEP HEAD UNIT 1-7
Doc ID	1660212

Tops

Name	Top	Datum
Anhydrite	2423	+385
Base Anhydrite	2457	+351
Elmont	3582	-774
Topeka	3670	-862
Heebner	3882	-1074
Toronto	3904	-1096
Lansing	3917	-1109
Base Kansas City	4152	-1344





## 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: 4/9/2022  
Invoice #: 0359943  
Lease Name: Schamberger Sheep Head  
Well #: Unit 1-7 (New)  
County: Sheridan, Ks  
Job Number: WP2653  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-CON	475.000	23.000	10,925.00
H-LD Cement Blend	125.000	46.000	5,750.00
Cement baskets 5 1/2"	4.000	276.000	1,104.00
5 1/2" Turbolizers	10.000	115.000	1,150.00
5 1/2" Floatshoe-Flapper AFU	1.000	345.000	345.00
5 1/2" LD Plug & Baffle	1.000	322.000	322.00
Cement plug container	1.000	230.000	230.00
Cement Blending & Mixing	600.000	1.288	772.80
Depth Charge 4001'-5000'	1.000	2,300.000	2,300.00
Light Eq Mileage	37.000	2.000	74.00
Heavy Eq Mileage	74.000	4.000	296.00
Ton Mileage	1,155.000	1.500	1,732.50
Mud flush	5.000	0.920	4.60
KCL-CS701	10.000	27.600	276.00

**Total** 25,281.90

**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!**



<b>Customer</b>	Pioneer Oil Company, Inc	<b>Lease &amp; Well #</b>	Shamberger Sheep Head Unit 1-7			<b>Date</b>	4/9/2022	
<b>Service District</b>	Oakley KS	<b>County &amp; State</b>	Sheridan KS	<b>Legals S/T/R</b>	7-9S-28W	<b>Job #</b>		
<b>Job Type</b>	Long String	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	<b>New Well?</b>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	<b>Ticket #</b>	WP 2653

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
64	John	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
73	Josh	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
208	Jose V	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations		
194-235	Kale	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
242	Charlie	<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			

**Comments**

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Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP025	H-Con	sack	475.00	\$10,925.00
CP014	H-LD Cement Blend	sack	125.00	\$5,750.00
FE130	5 1/2" Cement Basket	ea	4.00	\$1,104.00
FE135	5 1/2" Turbolizer	ea	10.00	\$1,150.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$345.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$322.00
C050	Cement Plug Container	job	1.00	\$230.00
C060	Cement Blending & Mixing Service	sack	600.00	\$772.80
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,300.00
M015	Light Equipment Mileage	mi	37.00	\$74.00
M010	Heavy Equipment Mileage	mi	74.00	\$296.00
M020	Ton Mileage	tm	1,155.00	\$1,732.50
CP170	Mud Flush	gal	5.00	\$4.60
AF055	Liquid KCL Substitute	gal	10.00	\$276.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$25,281.90
Based on this job, how likely is it you would recommend HSI to a colleague?			Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Tax Rate:	
			Sale Tax:	\$ -
			Total:	\$ 25,281.90
			HSI Representative:	John Polley

**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 1/4% 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. **DISCLAIMER NOTICE:** 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 customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**



**CEMENT TREATMENT REPORT**

Customer: Pioneer Oil Company, Inc	Well: Shamberger Sheep Head Unit 1-7	Ticket: WP 2653
City, State: Oakley KS	County: Sheridan KS	Date: 4/9/2022
Field Rep: Rick Popp	S-T-R: 7-9S-28W	Service: Long String

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	4249 ft
Casing Size:	5 1/2 in
Casing Depth:	4246 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	102.5 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	216.5 bbls
Total Sacks:	475 sx

Calculated Slurry - Tail	
Blend:	HLD
Weight:	14.8 ppg
Water / Sx:	6.7 gal / sx
Yield:	1.56 ft <sup>3</sup> / sx
Annular Bbls / Ft.:	0.0309 bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	34.7 bbls
Total Sacks:	125 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
4:54p			-	-	Arrived on location
5:04p				-	Safety meeting
5:14p				-	Rig up
7:31p				-	Casing on bottom
7:42p				-	Circulated mud
7:44p		600.0		-	Pushed ball through
8:47p	5.3	250.0	5.0	5.0	Water ahead
8:50p	5.3	275.0	12.0	17.0	Pumped 12 bbls mud flush
8:53p	5.8	400.0	10.0	27.0	Water behind
8:58p	3.0	150.0	9.1	36.1	Mixed 9.1 bbls cement to plug mouse hole @ 12.0 ppg
9:02p				36.1	Plug down
9:03p	3.0	150.0	13.6		Mixed 13.6 bbls cement to plug rat hole @ 12.0 ppg
9:05p					Plug down
9:07p	5.0	225.0	193.7		Mixed 193.7 bbls lead cement @ 12.0 ppg
10:17p	4.2	200.0	34.7		Mixed 34.7 bbls tail cement @ 14.8 ppg
10:32p					Shut down, load plug, and wash up
10:37p	6.0	300.0	102.5		Begin displacement
10:43p	6.0	400.0			Caught plug
10:56p		1,600.0			Plug down 1100 psi lift pressure and land @ 1600 psi circled 20 sks to pit
10:58p					Released pressure plug held
11:00p					Wash up and rig down
11:30p					Left location

CREW		UNIT	SUMMARY		
Cementer:	John	64	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Josh	73	4.8 bpm	414 psi	381 bbls
Bulk #1:	Jose V	208			
Bulk #2:	Kale	194-235			



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
400 Main St. PO Box 237  
Vincennes, IN 47501  
ATTN: Jim Musgrove

7/9s/28w Sheridan KS  
**Schamberger SHU #1-7**  
Job Ticket: 68587      **DST#: 1**  
Test Start: 2022.04.04 @ 00:00:00

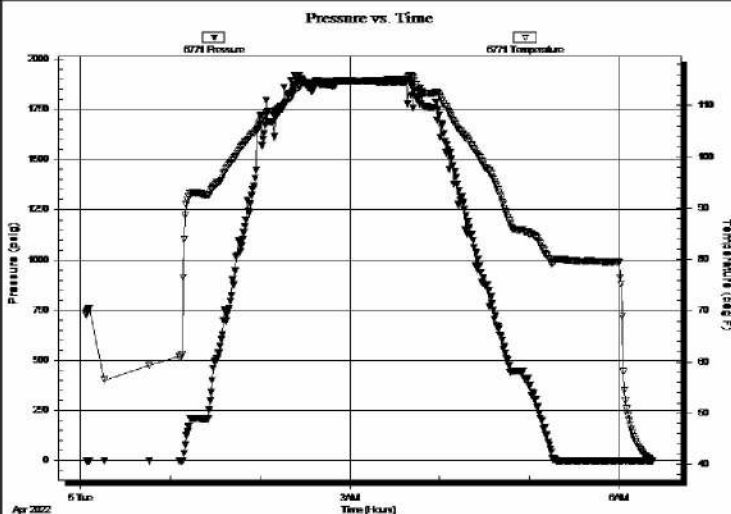
## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
**Interval: 3884.00 ft (KB) To 3908.00 ft (KB) (TVD)**  
 Total Depth: 3908.00 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: 2808.00 ft (KB)  
 2800.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6771**      **Inside**  
 Press@RunDepth:      psig @ 3885.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.04.05      End Date: 2022.04.05      Last Calib.: 2022.04.05  
 Start Time: 00:04:01      End Time: 06:22:21      Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Tool opened w hile making up the head joint?  
 Weight indicator didn't show w e had any weight on it  
 Pulled tool  
 Found a hole in a pipe w e picked up for DST stands



## PRESSURE SUMMARY

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

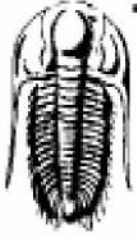
## Recovery

Length (ft)	Description	Volume (bbl)
760.00	Mud 100%	10.66

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

Pioneer Oil Co., Inc.  
400 Main St. PO Box 237  
Vincennes, IN 47501  
ATTN: Jim Musgrove

7/9s/28w Sheridan KS  
**Schamberger SHU #1-7**  
Job Ticket: 68587      **DST#: 1**  
Test Start: 2022.04.04 @ 00:00:00

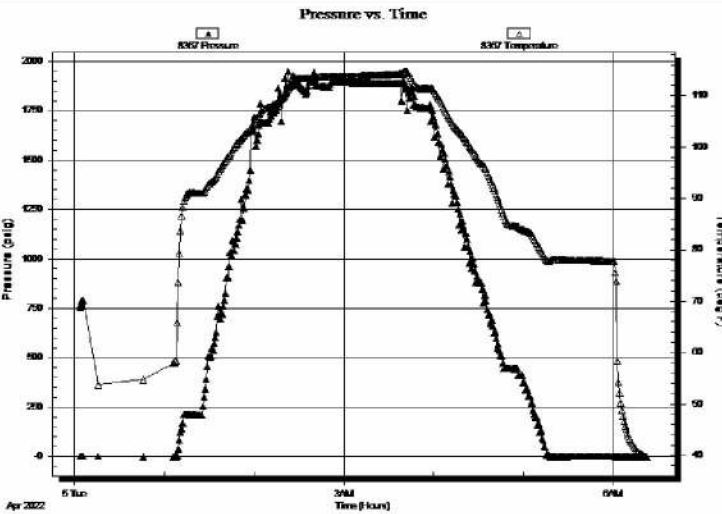
**GENERAL INFORMATION:**

Formation: **Toronto**  
Deviated: No Whipstock:                      ft (KB)  
Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened:                              Tester: James Winder  
Time Test Ended:                                 Unit No: 73  
  
Interval: **3884.00 ft (KB) To 3908.00 ft (KB) (TVD)**      Reference Elevations: 2808.00 ft (KB)  
Total Depth: **3908.00 ft (KB) (TVD)**                              2800.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair                      KB to GR/CF: 8.00 ft

**Serial #: 8367**      **Outside**

Press@RunDepth:                      psig @ 3885.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.05      End Date: 2022.04.05      Last Calib.: 2022.04.05  
Start Time: 00:04:01      End Time: 06:22:21      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** Tool opened w hile making up the head joint?  
Weight indicator didn't show we had any weight on it  
Pulled tool  
Found a hole in a pipe we picked up for DST stands



**PRESSURE SUMMARY**

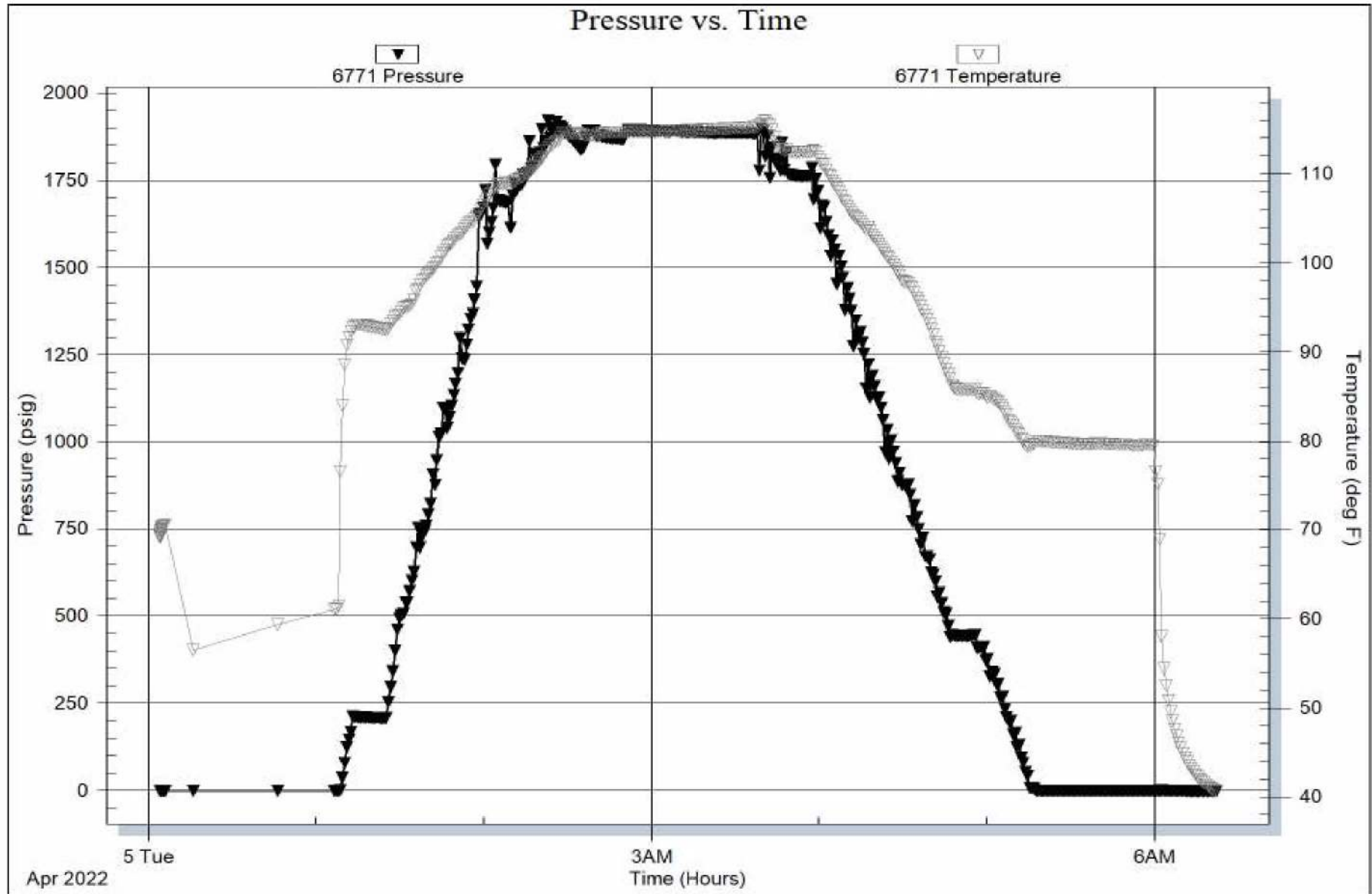
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

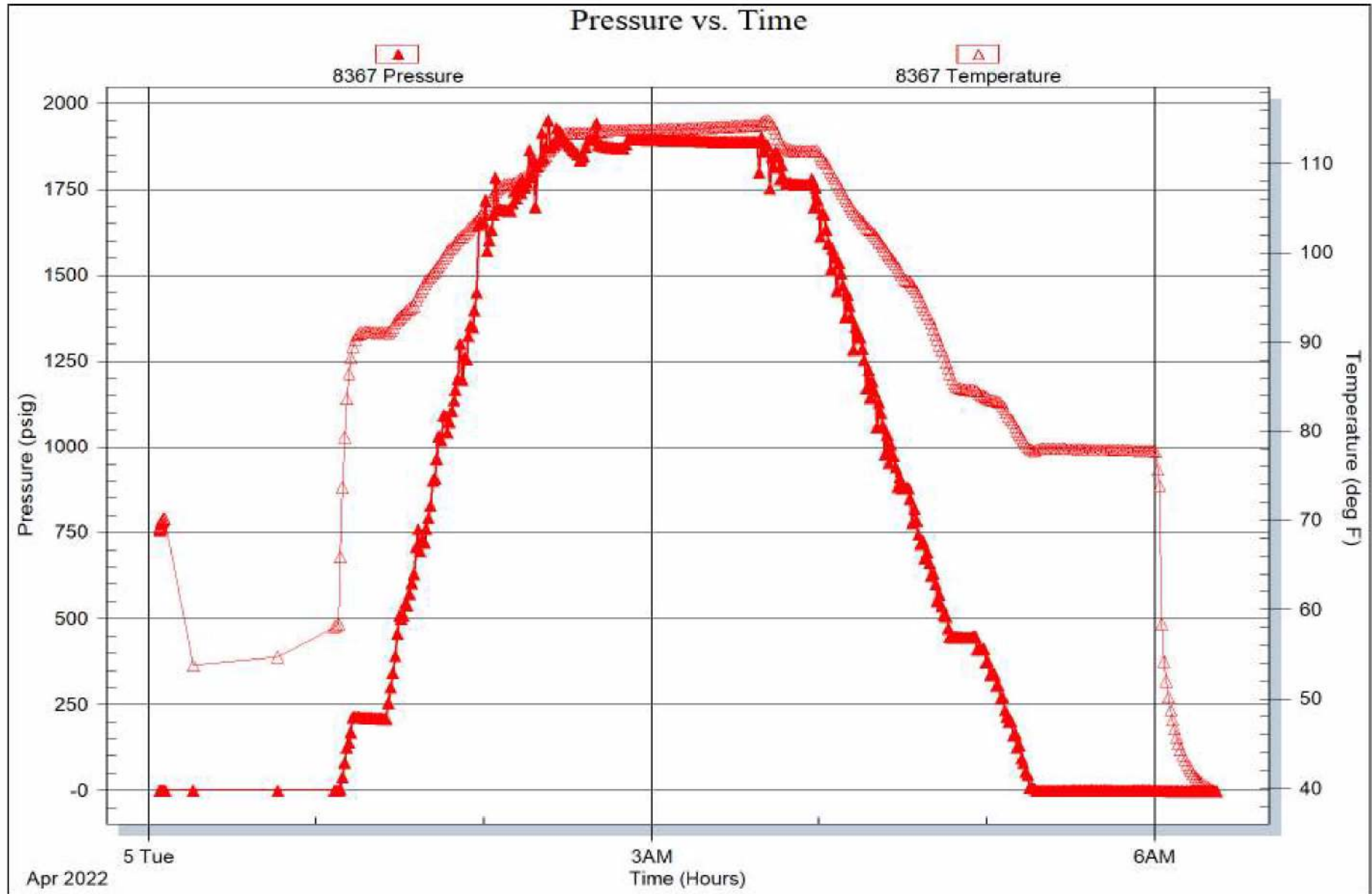
**Recovery**

Length (ft)	Description	Volume (bbl)
760.00	Mud 100%	10.66

**Gas Rates**

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





Freda West  
P# 1517921478

**JAMES C. MUSGROVE**

Petroleum Geologist, LLC  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Cell (620) 786-0839

Pioneer Oil Company, Inc.  
Schamberger Sheep Head Unit #1-7  
NE-SE-SE-NE (2207' FNL & 109' FEL)  
Section 7-9s-28w  
Sheridan County, Kansas

Page 1

**5 1/2" Production Casing**

**Contractor:** Duke Drilling (rig #2)  
**Commenced:** March 31, 2022  
**Completed:** April 9, 2022  
**Elevation:** 2808' K.B., 2806' D.F., 2800' G.L.  
**Casing program:** Surface; 8 5/8" @ 271'  
Production, 5 1/2: @ 4244  
**Sample:** Samples saved and examined 3400' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 3400' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were five (5) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Midwest Wireline LLC; Dual Induction, Compensated Neutron/Density, and Micro and Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	2423	+385
Base Anhydrite	2457	+351
Elmont	3582	-774
Howard	3620	-812
Topeka	3670	-862
Heebner	3882	-1074
Toronto	3904	-1096
Lansing	3917	-1109
Base Kansas City	4152	-1344
Rotary Total Depth	4245	-1437
Log Total Depth	4249	-1427

(All tops and zones corrected to Electric Log Measurements)

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**WABUNSEE SECTION**

3540-3555' Limestone, gray, fossiliferous, scattered porosity, brown and gray to black stain; show of free oil and no odor.

### **ELMONT SECTION**

3582-3590' Limestone, tan, buff; finely crystalline, granular, finely fossiliferous, dolomitic in part; poor visible porosity; no shows.

### **HOWARD SECTION**

3620-3630' Limestone, white, gray, finely crystalline, fossiliferous, slightly cherty (dense) poor porosity.

3637-3650' Limestone, tan, gray, chalky, increasingly cherty; dense.

3653-3663' Limestone, as above.

### **TOPEKA SECTION**

3670-3630' Limestone, white, gray oolitic, granular, few sandy; chalky in part, no shows.

3680-3696' Limestone, white, yellow, oolitic, chalky; poor porosity, no shows.

3698-3710' Limestone, white, gray; oolitic, poorly developed porosity, sparry calcite cement; no shows.

3725-3735' Limestone; as above, with white, chalk.

3740-3760' Limestone, tan, white, gray, fossiliferous/oolitic (bioclastic); scattered porosity, with chalk.

3777-3798' Sand, gray, tan, very fine grained; highly calcareous, friable; scattered porosity; no shows, with maroon, rusty brown, silty, soft shale at base.

3804-3814' Limestone, white, gray, oolitic, chalky.

3823-3836' Limestone, white, gray, highly oolitic, sparry calcite cement, no shows.

### **PLATTSMOUTH SECTION**

3842-3855' Limestone, white, gray, tan, oolitic, chalky, few dolomitic, no shows.

3858-3868' Limestone, tan, gray, oolitic, slightly cherty; poor visible porosity

### **TORONTO SECTION**

3904-3913' Limestone, white, cream, oolitic, fair to good porosity, good dark brown to brown stain and saturation, good show of free oil and faint odor.

**Drill Stem Test #1** **3884-3908**  
**Log Measurements 3888-3912**  
**\*\*Misrun – Hole in Drill Pipe\*\***

**Drill Stem Test #2** **3884-3908**  
**Log Measurements 3888-3912**

**Times: 15-30-45-75**

**Blow: Weak**

**Recovery: 10' muddy gassy oil**  
**(5% gas; 85% oil; 10% mud)**  
**20' oil and gas cut mud**  
**(2% gas; 16% oil; 82% mud)**

**Pressures:** ISIP 1071 psi  
 FSIP 1075 psi  
 IFP 19-23 psi  
 FFP 24-33 psi  
 HSH 1940-1903 psi

**LANSING SECTION**

3917-3922' Limestone, white, gray, highly oolitic, good porosity; good dark brown to brown stain and saturation, good show of free oil and faint odor.

**Drill Stem Test #3** **3908-3918**  
**Log Measurements 3912-3922**

**Times: 15-30-45-90**

**Blow: Good**

**Recovery: 300' clean gassy oil**  
**60' slightly oil and gas cut muddy water**  
**(10% gas; 7% oil; 51% water; 32% mud)**  
**290' water trace of oil**

**Pressures:** ISIP 1082 psi  
 FSIP 1063 psi  
 IFP 40-110 psi  
 FFP 115-293 psi  
 HSH 1960-1938 psi

3930-3938' Limestone, white, gray, fine crystalline, slightly oolitic, chalky; poor visible porosity, trace stain, no free oil and no odor.

3950-3958' Limestone, white, tan, slightly fossiliferous, oolitic, chalky in part; brown stain in oolitic matrix, black stain in fossiliferous cuttings, trace of free oil and questionable odor in fresh samples.

3960-3968' Limestone, white, cream, highly fossiliferous, fair to good pinpoint fossil cast porosity, good brown stain and saturation, fair show of free oil and

faint odor.

**Drill Stem Test #4**

**3925-3966**

**Log Measurements 3929-3970**

**Times: 15-30-45-90**

**Blow: Weak**

**Recovery: 25' mud, trace of oil**

**Pressures:** ISIP 1167 psi  
FSIP 1171 psi  
IFP 18-22 psi  
FFP 23-30 psi  
HSH 1955-1950 psi

- 3988-4000' Limestone, white, gray, chalky, scattered pinpoint type porosity, trace brown stain, no free oil and no odor, with trace white and amber opaque chert.
- 4005-4010' Dolomite, white, clear, medium crystalline, poor visible porosity, trace brown and black stain, trace of free oil and no odor.
- 4020-4030' Limestone, white, gray microcrystalline, chalky, poor porosity, no shows.
- 4051-4060' Limestone, gray to white, fossiliferous, chalky in part; poor visible porosity, black to brown staining; trace of free oil and no odor.
- 4074-4082' Limestone, white, gray; finely crystalline, fossiliferous, spotty brown stain, trace of free oil and no odor.
- 4091-4101' Limestone, white, tan, oolitic, fair porosity; fair golden brown to dark brown stain and saturation, fair show of free oil and faint to fair odor.

**Drill Stem Test #5**

**4048-4100**

**Log Measurements 4052-4104**

**Times: 15-30-45-90**

**Blow: Weak**

**Recovery: 25' slightly oil cut mud  
(9% oil; 91% mud)**

**Pressures:** ISIP 191 psi  
FSIP 987 psi  
IFP 19-22 psi  
FFP 21-23 psi  
HSH 2041-2033 psi

Pioneer Oil Company, Inc.  
Schamberger Sheep Head Unit #1-7  
NE-SE-SE-NE (2207' FNL & 109' FEL)  
Section 7-9s-28w  
Sheridan County, Kansas

Page 5

4117-4124' Limestone, white, cream, fossiliferous, chalky; poorly developed porosity, black tarry to gilsonitic stain, no free oil and no odor.


4141-4147' Limestone, white, gray, chalky, poor porosity, no shows.

<b>Base Kansas City</b>	<b>4143</b>	<b>(-1335)</b>
<b>Rotary Total Depth</b>	<b>4245</b>	<b>(-1437)</b>

**Recommendations:**

5 1/2" production casing was set and cemented on the Pioneer Oil Company, Inc., Schamberger Sheep Head Unit #1-7

Respectfully submitted,

  
James C. Musgrove  
Petroleum Geologists







## 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: 3/31/2022  
Invoice #: 0359710  
Lease Name: Schamberger Sheep Head  
Well #: Unit 1-7- (New)  
County: Sheridan, Ks  
Job Number: WP2620  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	200.000	20.700	4,140.00
Heavy Eq Mileage	45.000	4.000	180.00
Light Eq Mileage	45.000	2.000	90.00
Ton Mileage	423.000	1.500	634.50
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Blending & Mixing	200.000	1.288	257.60
Service Supervisor	1.000	253.000	253.00

**Total** 6,475.10

**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!**



Customer	Pioneer Oil Co	Lease & Well #	Schamberger Sheephead Unit 1-7	Date	3/31/2022
Service District	Oakley KS	County & State	Sheridan KS	Legals S/T/R	7-9S-28W
Job Type	Surface	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	Legals S/T/R New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job # Ticket #

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
VAP	Scotty	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
180/520	Jimmie	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
242	Christian	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

**Comments**

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	200.00	\$4,140.00
M010	Heavy Equipment Mileage	mi	45.00	\$180.00
M015	Light Equipment Mileage	mi	45.00	\$90.00
M020	Ton Mileage	tm	423.00	\$634.50
D010	Depth Charge: 0'-500'	job	1.00	\$920.00
C060	Cement Blending & Mixing Service	sack	200.00	\$257.60
R061	Service Supervisor	day	1.00	\$253.00

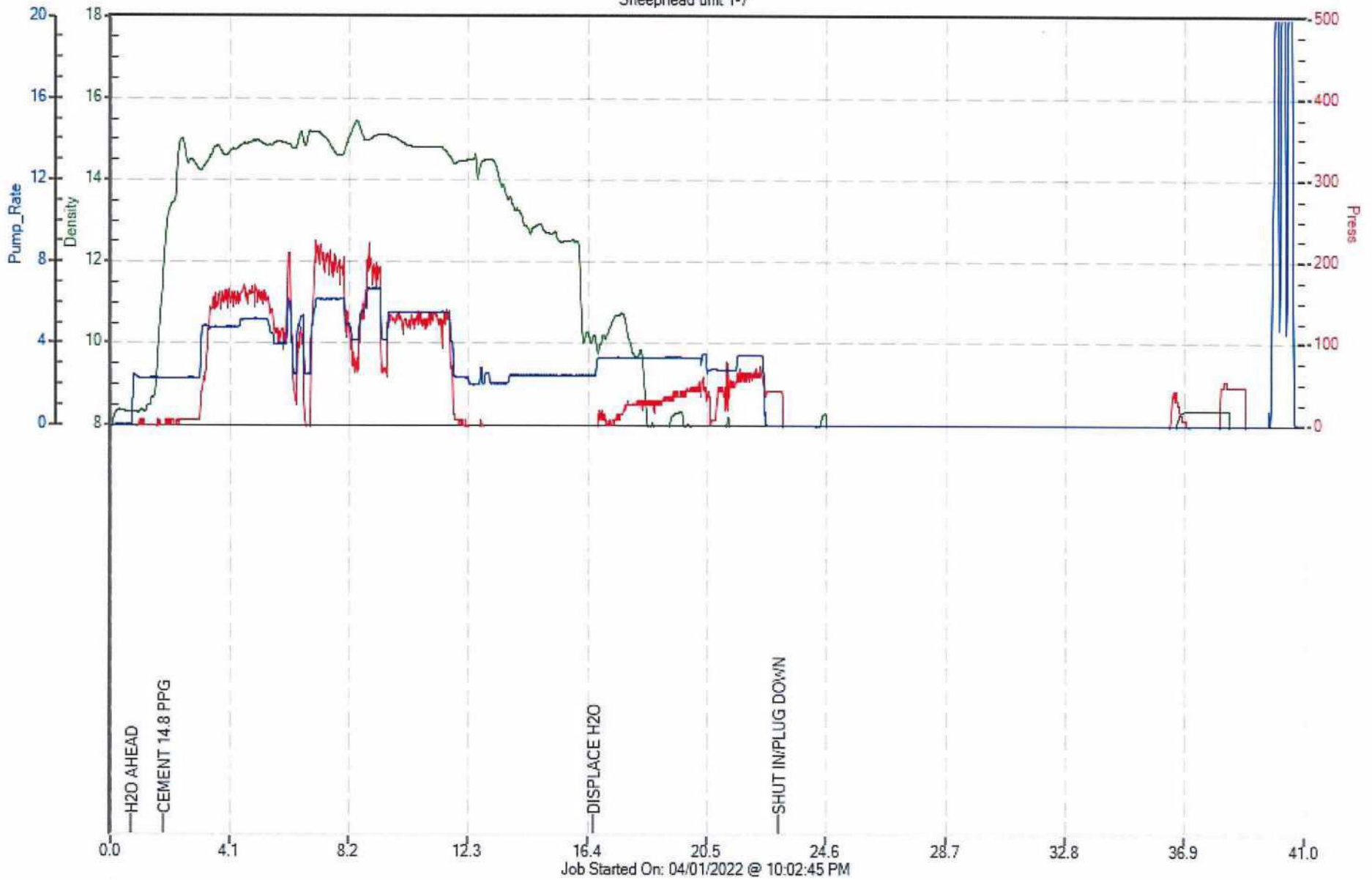
Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$6,475.10
Based on this job, how likely is it you would recommend HSI to a colleague?			Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Tax Rate:	
Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Sale Tax:	\$ -
			Total:	\$ 6,475.10
			HSI Representative:	

**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 1/2% 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. **DISCLAIMER NOTICE:** 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 customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**



Pioneer Oil Co  
Sheephead unit 1-7





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
 400 Main St. PO Box 237  
 Vincennes, IN 47501  
 ATTN: Jim Musgrove

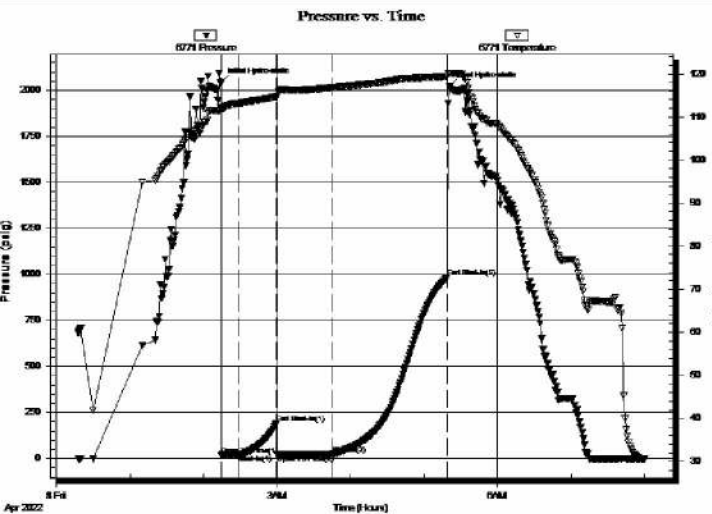
**7/9s/28w Sheridan KS**  
**Schamberger SHU #1-7**  
 Job Ticket: 68591 **DST#: 5**  
 Test Start: 2022.04.08 @ 00:18:00

## GENERAL INFORMATION:

Formation: **Lans. "H - J"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:14:36  
 Time Test Ended: 08:00:36  
 Interval: **4048.00 ft (KB) To 4100.00 ft (KB) (TVD)**  
 Total Depth: 4100.00 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: 2808.00 ft (KB)  
 2800.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6771 Inside**  
 Press@RunDepth: 23.47 psig @ 4049.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.04.08 End Date: 2022.04.08 Last Calib.: 2022.04.08  
 Start Time: 00:18:01 End Time: 08:00:36 Time On Btm: 2022.04.08 @ 02:14:21  
 Time Off Btm: 2022.04.08 @ 05:20:21

**TEST COMMENT:** 15 - IF: Blow built to 1/2", died back slightly  
 30 - IS: No blow back  
 45 - FF: 1 1/2" Blow at open, built to 1 3/4", died back to 1 1/2"  
 90 - FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2041.28	112.26	Initial Hydro-static
1	18.74	111.51	Open To Flow (1)
14	22.33	113.18	Shut-In(1)
45	191.13	114.60	End Shut-In(1)
46	20.65	114.85	Open To Flow (2)
91	23.47	116.79	Shut-In(2)
185	986.73	119.44	End Shut-In(2)
186	2023.23	120.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	OCM 91% <sub>m</sub> , 9% <sub>o</sub>	0.35

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Oil Co., Inc.

**7/9s/28w Sheridan KS**

400 Main St. PO Box 237  
Vincennes, IN 47501

**Schamberger SHU #1-7**

Job Ticket: 68591

**DST#: 5**

ATTN: Jim Musgrove

Test Start: 2022.04.08 @ 00:18:00

## 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:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	OCM 91% <sub>m</sub> , 9% <sub>o</sub>	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

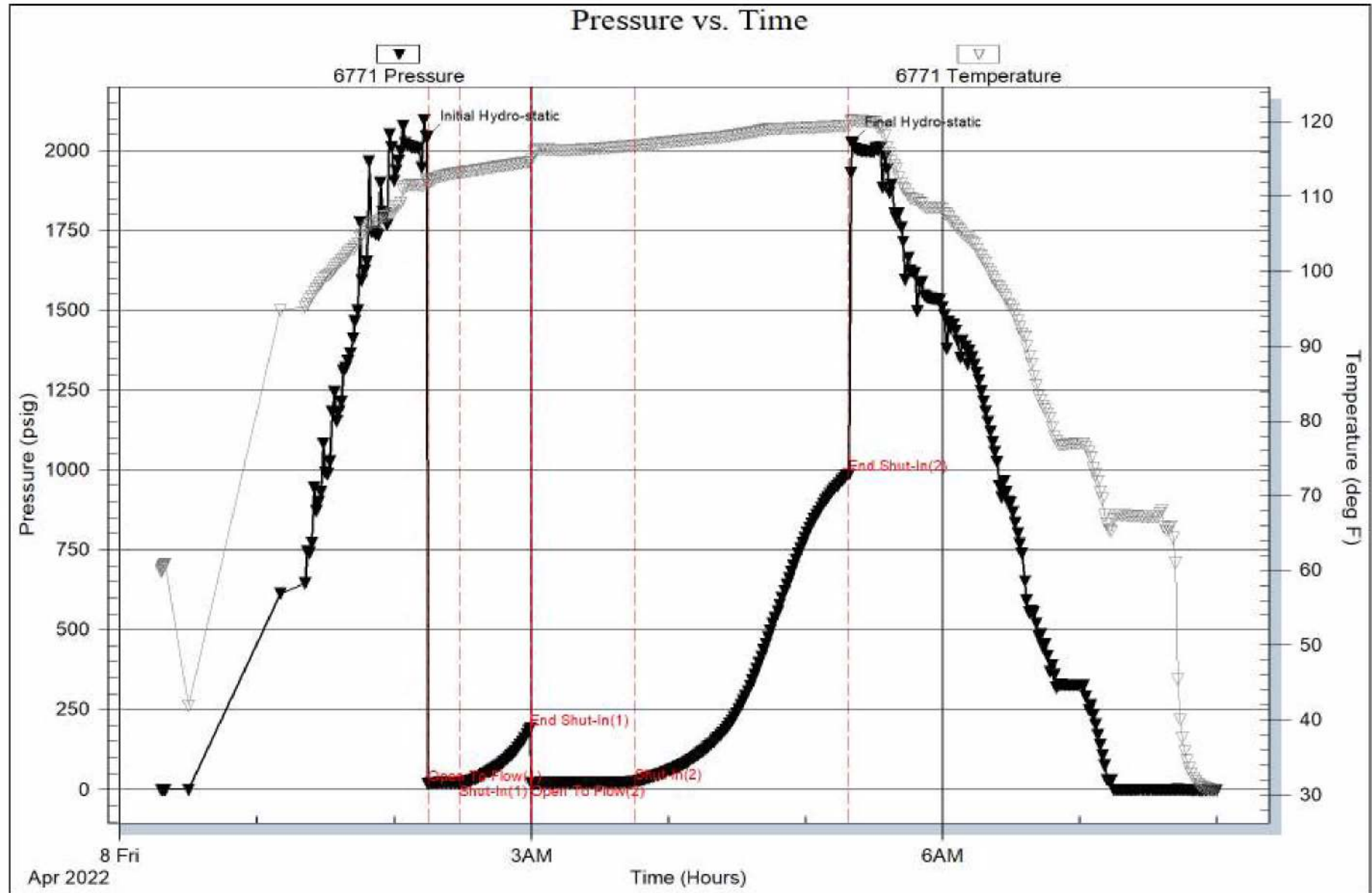
Num Gas Bombs: 0

Serial #:

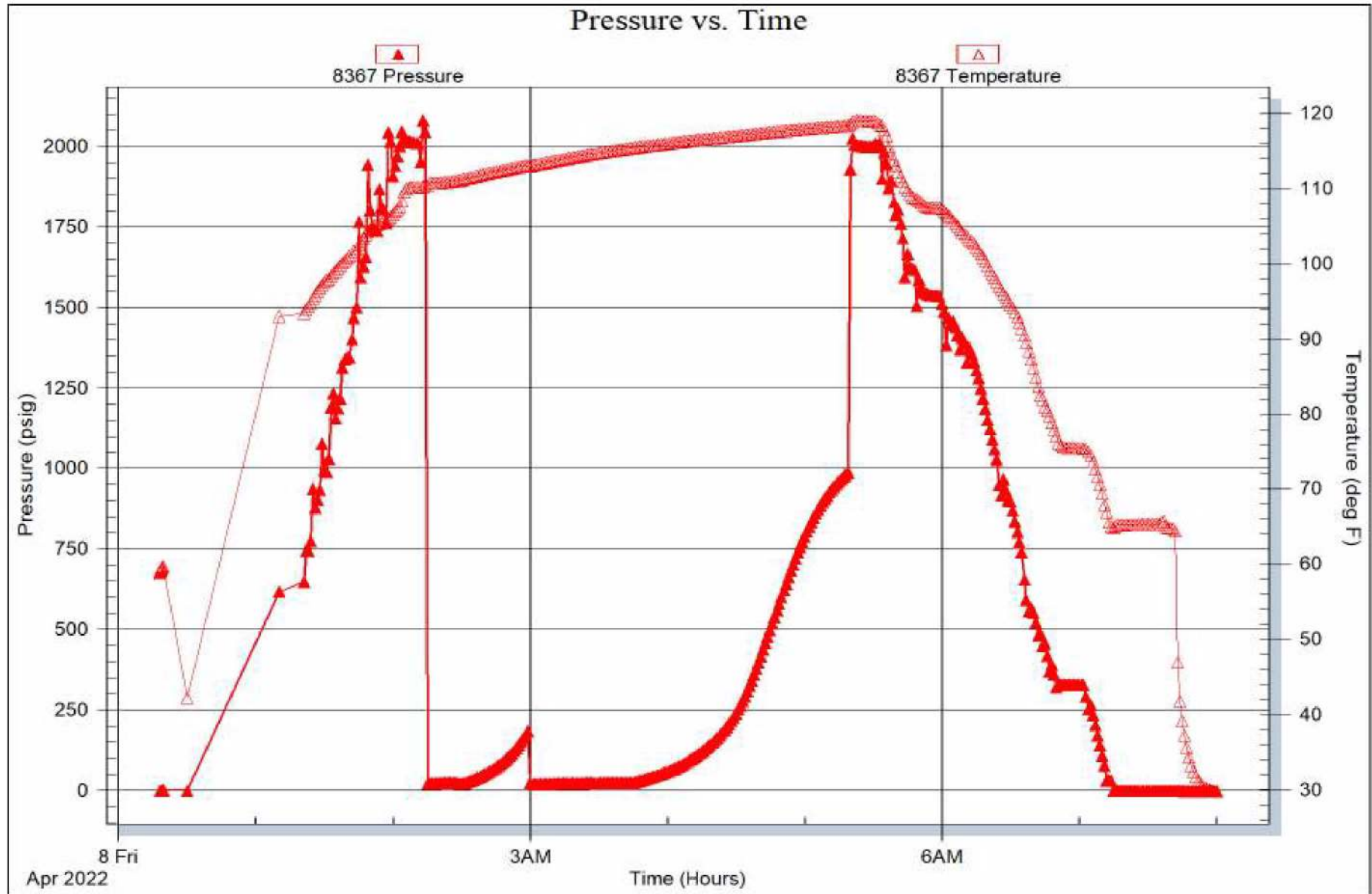
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler = 30 PSI, 1500 mL OM 53%<sub>m</sub>, 47%<sub>o</sub>









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
400 Main St. PO Box 237  
Vincennes, IN 47501  
ATTN: Jim Musgrove

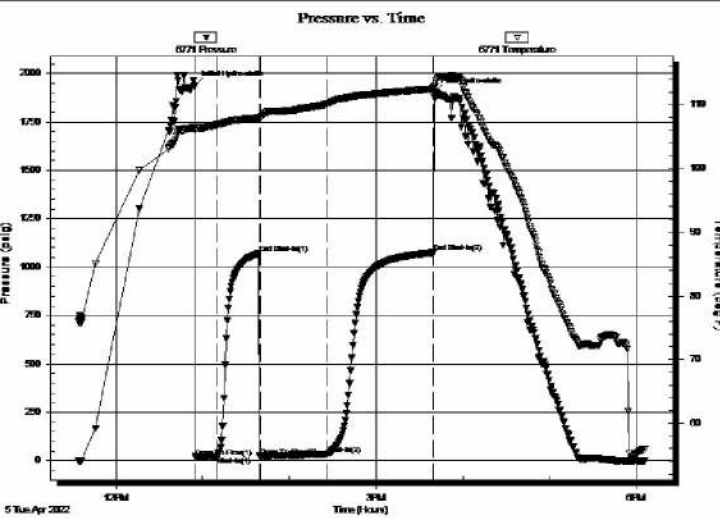
**7/9s/28w Sheridan KS**  
**Schamberger SHU #1-7**  
Job Ticket: 68588      **DST#: 2**  
Test Start: 2022.04.05 @ 11:34:00

## GENERAL INFORMATION:

Formation: **Toronto**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 12:54:51  
Time Test Ended: 18:06:06  
Interval: **3884.00 ft (KB) To 3908.00 ft (KB) (TVD)**  
Total Depth: 3908.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2808.00 ft (KB)  
2800.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: James Winder  
Unit No: 73

**Serial #: 6771      Inside**  
Press@RunDepth: 33.24 psig @ 3885.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.05      End Date: 2022.04.05      Last Calib.: 2022.04.05  
Start Time: 11:34:01      End Time: 18:06:06      Time On Btm: 2022.04.05 @ 12:54:36  
Time Off Btm: 2022.04.05 @ 15:39:51

**TEST COMMENT:** 15 - IF: Blow built to almost 1/2"  
30 - IS: No blow back  
45 - FF: Blow built to just under 1"  
75 - FS: No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1940.18	106.33	Initial Hydro-static
1	19.47	105.99	Open To Flow (1)
16	22.76	106.88	Shut-In(1)
45	1071.33	107.97	End Shut-In(1)
46	24.30	107.88	Open To Flow (2)
92	33.24	110.17	Shut-In(2)
165	1074.66	112.53	End Shut-In(2)
166	1903.17	112.81	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	OCM 82% <i>m</i> , 16% <i>o</i> , 2% <i>g</i>	0.28
10.00	MCO 85% <i>o</i> , 10% <i>m</i> , 5% <i>g</i>	0.14

\* Recovery from multiple tests

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
 400 Main St. PO Box 237  
 Vincennes, IN 47501  
 ATTN: Jim Musgrove

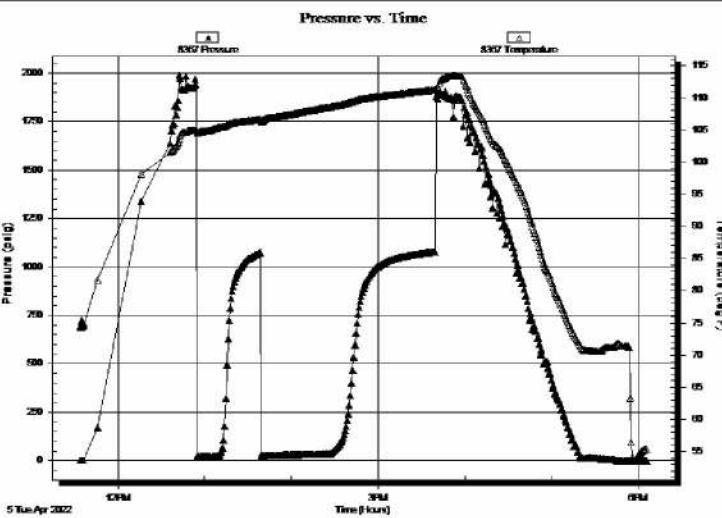
7/9s/28w Sheridan KS  
**Schamberger SHU #1-7**  
 Job Ticket: 68588 **DST#: 2**  
 Test Start: 2022.04.05 @ 11:34:00

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: **No Whipstock** ft (KB)  
 Time Tool Opened: 12:54:51  
 Time Test Ended: 18:06:06  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **James Winder**  
 Unit No: **73**  
 Interval: **3884.00 ft (KB) To 3908.00 ft (KB) (TVD)**  
 Reference Elevations: 2808.00 ft (KB)  
 Total Depth: 3908.00 ft (KB) (TVD)  
 2800.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 8367** **Outside**  
 Press@RunDepth: psig @ 3885.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.04.05 End Date: 2022.04.05 Last Calib.: 2022.04.05  
 Start Time: 11:34:01 End Time: 18:05:51 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 15 - IF: Blow built to almost 1/2"  
 30 - IS: No blow back  
 45 - FF: Blow built to just under 1"  
 75 - FS: No blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
20.00	OCM 82% m, 16% o, 2% g	0.28
10.00	MCO 85% o, 10% m, 5% g	0.14

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Oil Co., Inc.

**7/9s/28w Sheridan KS**

400 Main St. PO Box 237  
Vincennes, IN 47501

**Schamberger SHU #1-7**

Job Ticket: 68588

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2022.04.05 @ 11:34:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	OCM 82% <i>m</i> , 16% <i>o</i> , 2% <i>g</i>	0.281
10.00	MCO 85% <i>o</i> , 10% <i>m</i> , 5% <i>g</i>	0.140

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

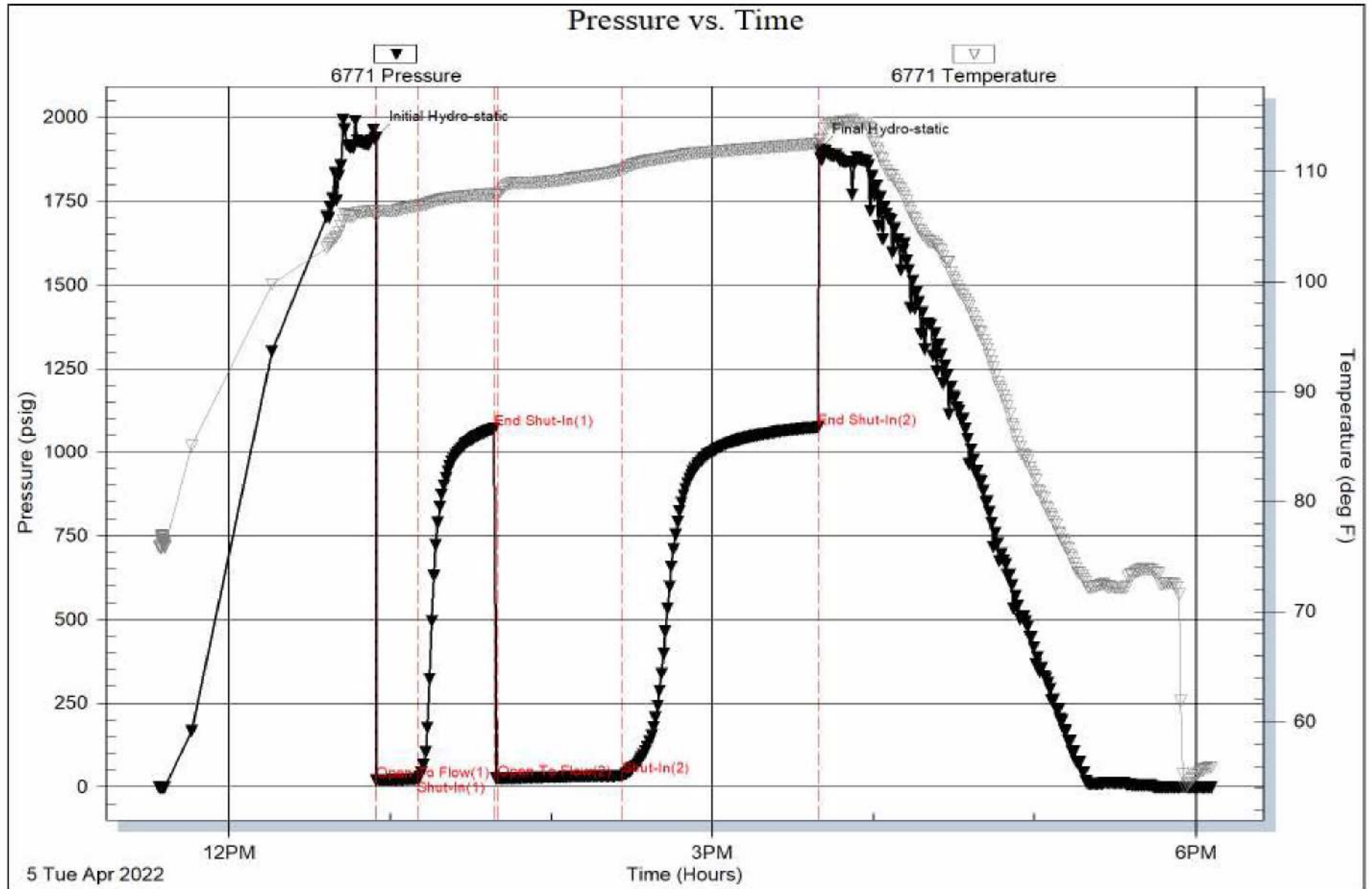
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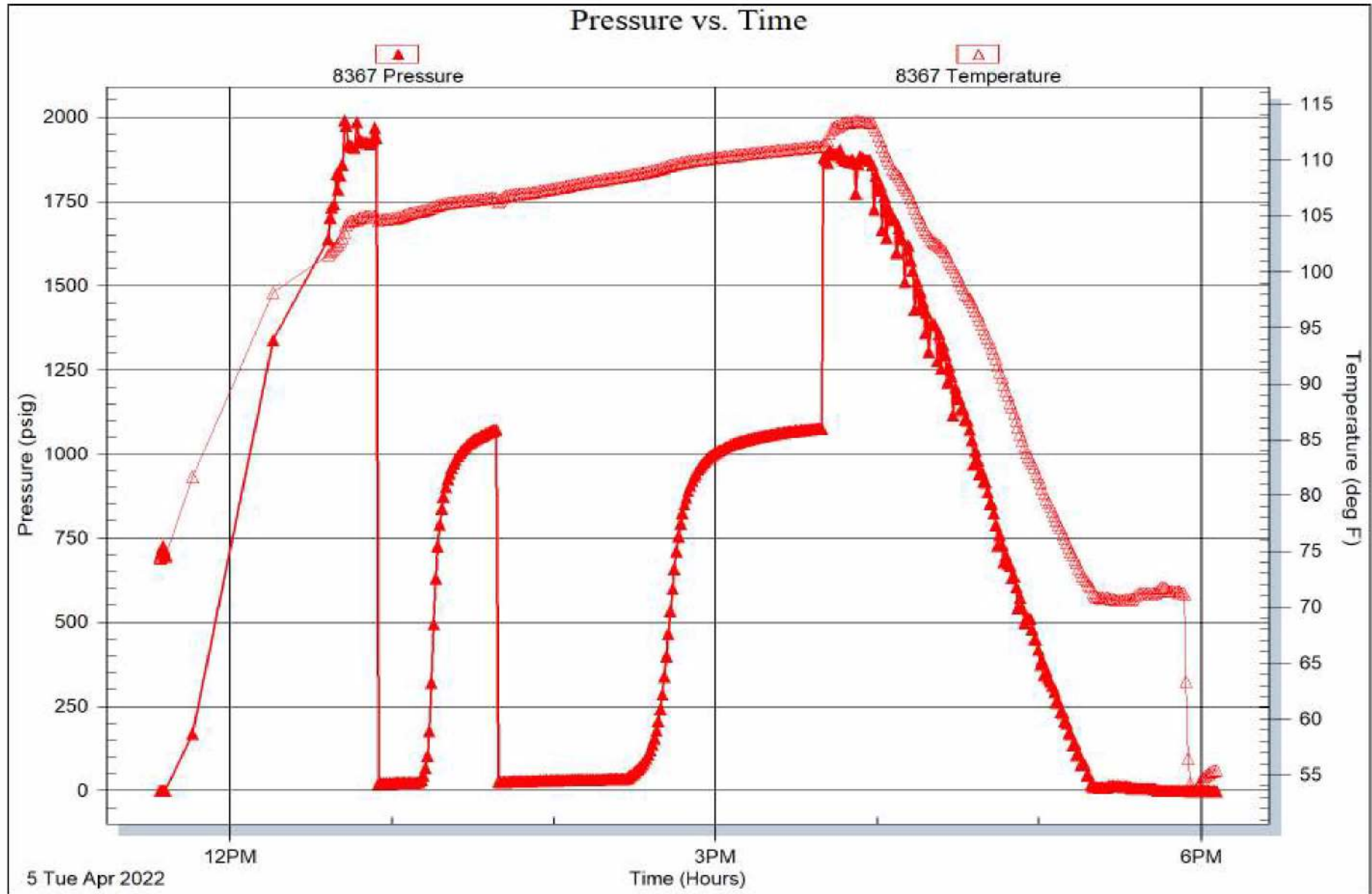
Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 30.2 api @ 60 deg F

Sampler = 35 PSI, 1500 mL GOCM 65%*m*, 25%*o*, 10%*g*







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
400 Main St. PO Box 237  
Vincennes, IN 47501  
ATTN: Jim Musgrove

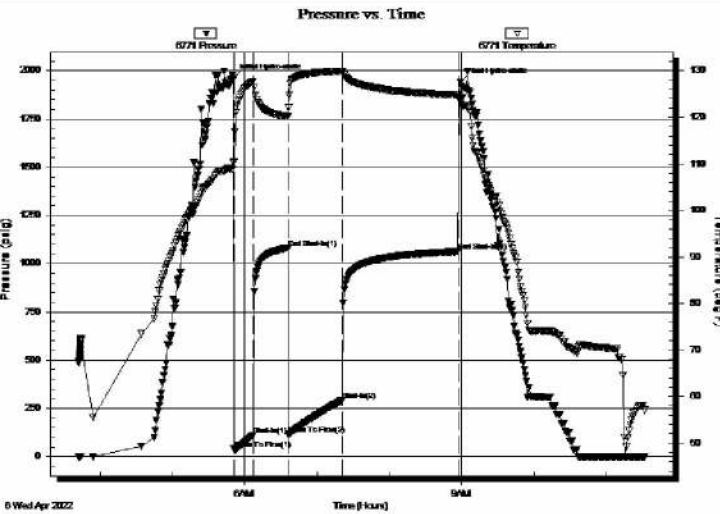
**7/9s/28w Sheridan KS**  
**Schamberger SHU #1-7**  
Job Ticket: 68589      **DST#: 3**  
Test Start: 2022.04.06 @ 03:42:00

## GENERAL INFORMATION:

Formation: **Lans. "A"**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 05:51:06  
Time Test Ended: 11:32:21  
Interval: **3908.00 ft (KB) To 3918.00 ft (KB) (TVD)**  
Total Depth: 3918.00 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: 2808.00 ft (KB)  
2800.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6771      Inside**  
Press@RunDepth: 292.55 psig @ 3909.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.04.06      End Date: 2022.04.06      Last Calib.: 2022.04.06  
Start Time: 03:42:01      End Time: 11:32:21      Time On Btm: 2022.04.06 @ 05:50:51  
Time Off Btm: 2022.04.06 @ 08:58:51

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 5 min., built to 28 3/4"  
30 - IS: Blow back built to 2 1/2"  
45 - FF: Blow built to BOB at 7 min., built to 62 1/2"  
90 - FS: Blow back built to 9 1/2" then died back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.64	110.33	Initial Hydro-static
1	40.09	110.56	Open To Flow (1)
16	109.61	127.70	Shut-In(1)
46	1081.74	120.17	End Shut-In(1)
46	115.03	122.10	Open To Flow (2)
91	292.55	129.90	Shut-In(2)
187	1063.21	124.78	End Shut-In(2)
188	1937.77	123.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
290.00	Water w/trace oil 98%w , 2%m	4.07
60.00	GOMCW 51%w , 32%m, 10%g, 7%o	0.84
300.00	CGO 82%o, 18%g	4.21
0.00	GIP = 415'	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Pioneer Oil Co., Inc.  
400 Main St. PO Box 237  
Vincennes, IN 47501  
ATTN: Jim Musgrove

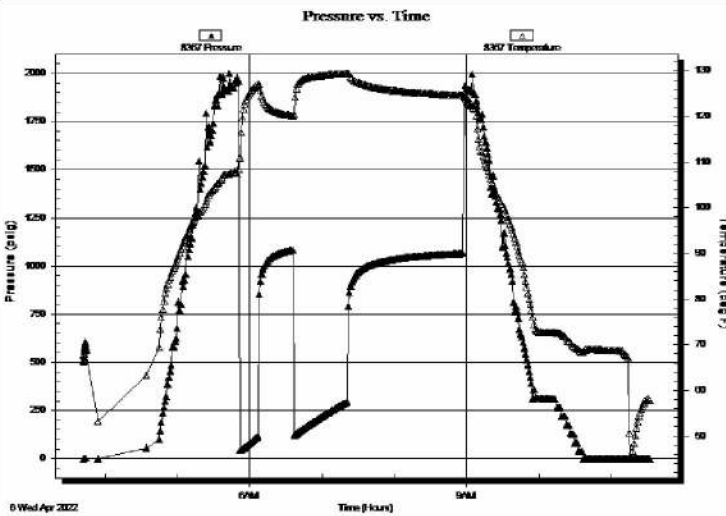
**7/9s/28w Sheridan KS**  
**Schamberger SHU #1-7**  
Job Ticket: 68589      **DST#: 3**  
Test Start: 2022.04.06 @ 03:42:00

**GENERAL INFORMATION:**

Formation: **Lans. "A"**  
 Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 05:51:06      Tester: James Winder  
 Time Test Ended: 11:32:21      Unit No: 73  
 Interval: **3908.00 ft (KB) To 3918.00 ft (KB) (TVD)**      Reference Elevations: 2808.00 ft (KB)  
 Total Depth: 3918.00 ft (KB) (TVD)      2800.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**  
 Press@RunDepth: psig @ 3909.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.04.06      End Date: 2022.04.06      Last Calib.: 2022.04.06  
 Start Time: 03:42:01      End Time: 11:32:21      Time On Btm:  
    Time Off Btm:

**TEST COMMENT:** 15 - IF: Blow built to BOB (11") at 5 min., built to 28 3/4"  
 30 - IS: Blow back built to 2 1/2"  
 45 - FF: Blow built to BOB at 7 min., built to 62 1/2"  
 90 - FS: Blow back built to 9 1/2" then died back



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

Recovery		
Length (ft)	Description	Volume (bb)
290.00	Water w/trace oil 98%w , 2%m	4.07
60.00	GOMCW 51%w , 32%m, 10%g, 7%o	0.84
300.00	CGO 82%o, 18%g	4.21
0.00	GIP = 415'	0.00

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Oil Co., Inc.

**7/9s/28w Sheridan KS**

400 Main St. PO Box 237  
Vincennes, IN 47501

**Schamberger SHU #1-7**

Job Ticket: 68589

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2022.04.06 @ 03:42:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
290.00	Water w/trace oil 98%w, 2%m	4.068
60.00	GOMCW 51%w, 32%m, 10%g, 7%o	0.842
300.00	CGO 82%o, 18%g	4.208
0.00	GIP = 415'	0.000

Total Length: 650.00 ft      Total Volume: 9.118 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

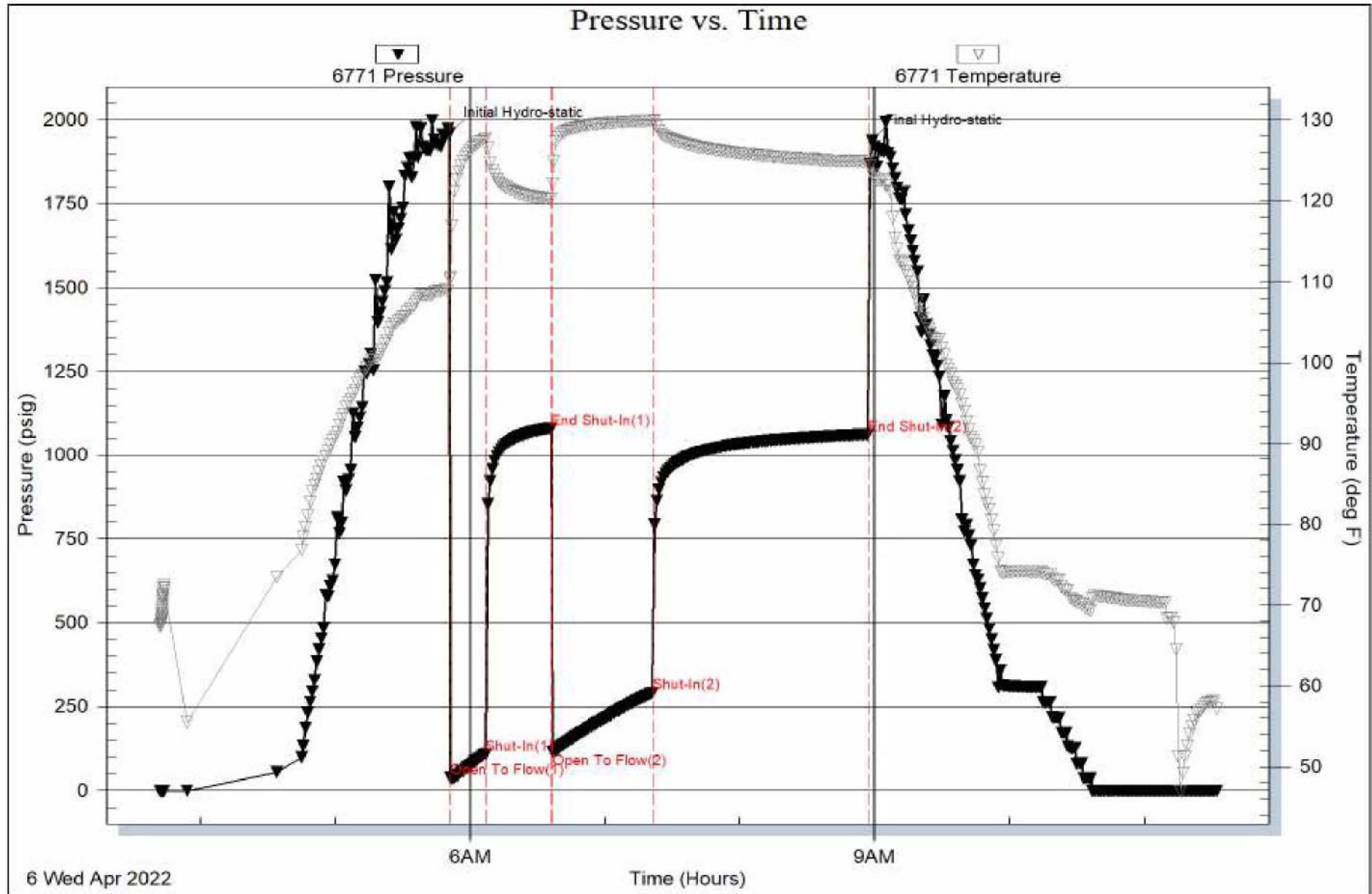
Laboratory Location:

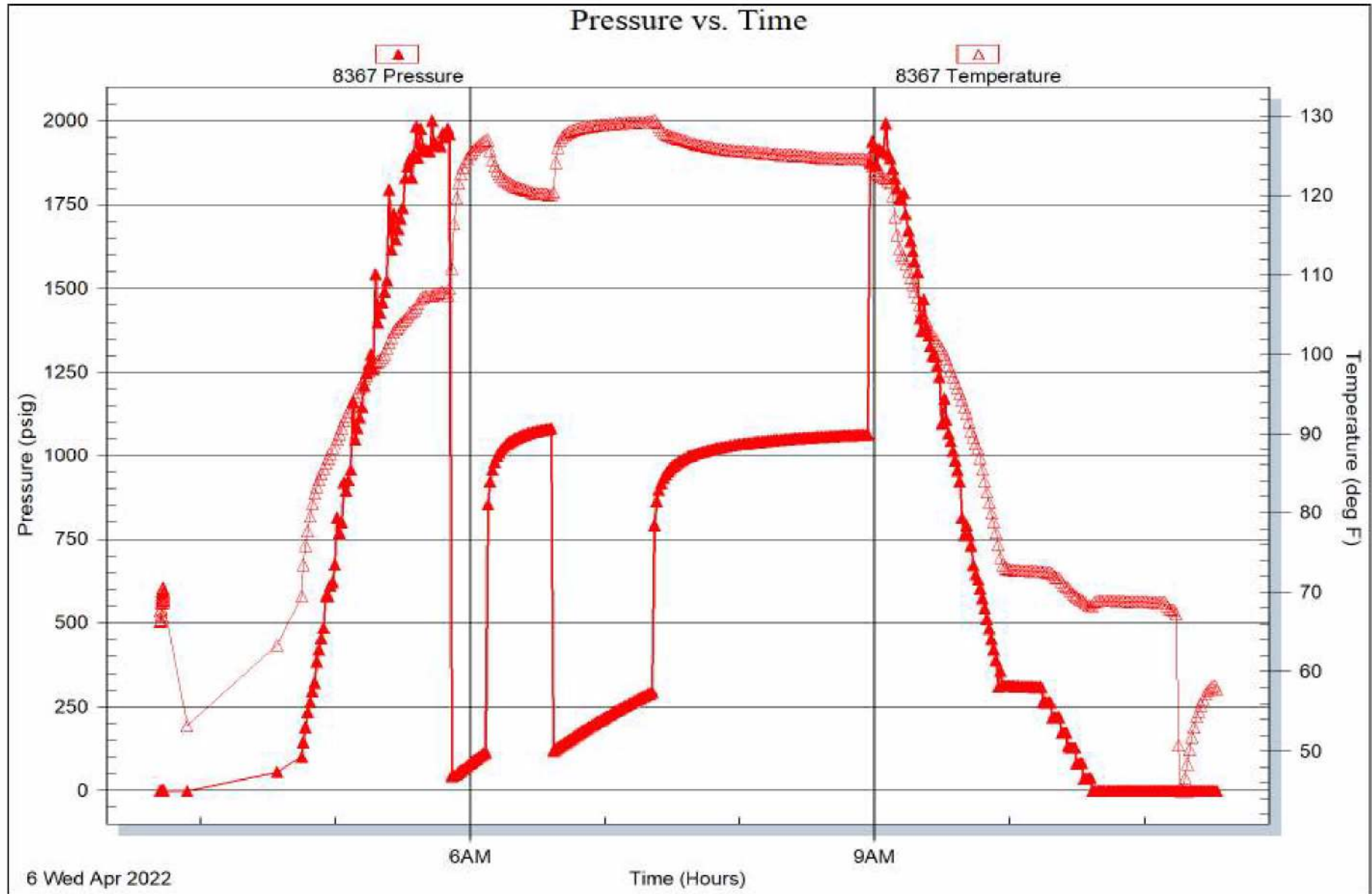
Recovery Comments: Gravity = 28 api @ 52 deg F Corrected Gravity = 28.8 api

RW = .160 ohms @ 74.3 deg F Chlorides = 46,000 ppm

Sampler = 50 PSI, 1800 mL Oil, 200 mL Water

Low levels of H2S gas present











**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Oil Co., Inc.

**7/9s/28w Sheridan KS**

400 Main St. PO Box 237  
Vincennes, IN 47501

**Schamberger SHU #1-7**

Job Ticket: 68590

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2022.04.07 @ 00:04:00

## 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:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud w /trace of oil 100%	0.351

Total Length: 25.00 ft      Total Volume: 0.351 bbl

Num Fluid Samples: 0

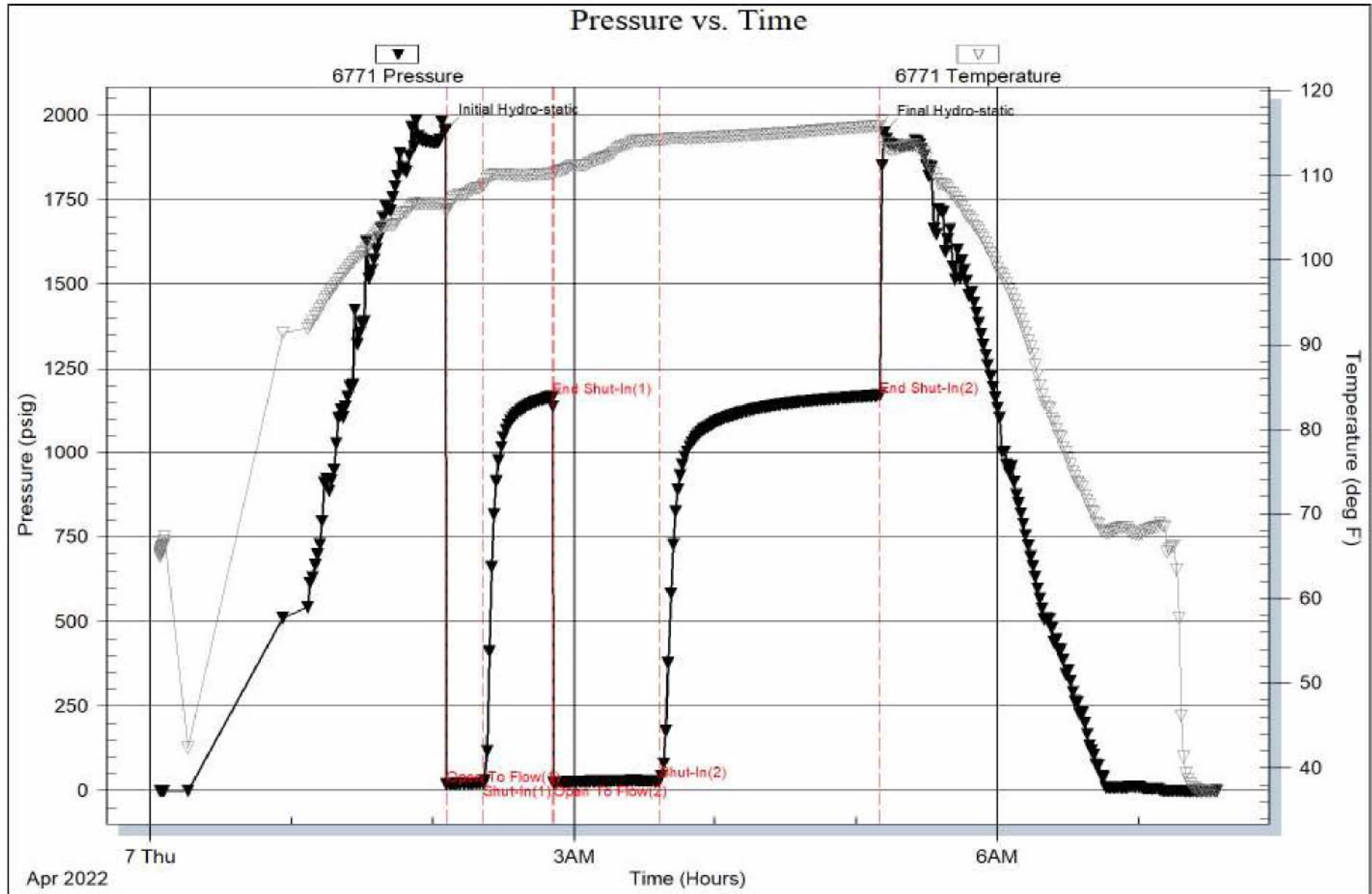
Num Gas Bombs: 0

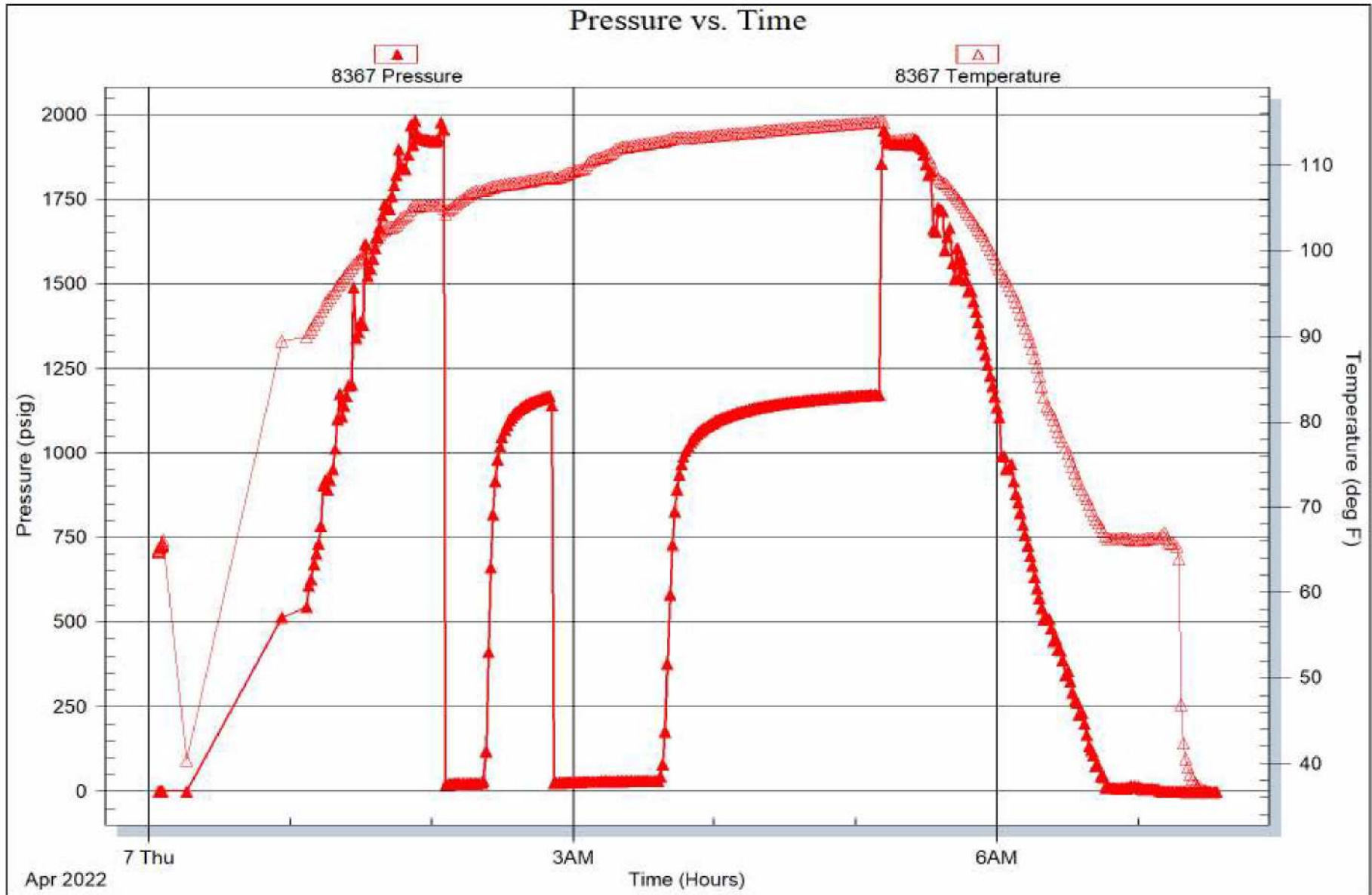
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler = 70 PSI, 2000 mL Mud w /oil spots 99% m, 1% o







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

August 18, 2022

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

Re: ACO-1  
API 15-179-21478-00-00  
SCHAMBERGER SHEEP HEAD UNIT 1-7  
NE/4 Sec.07-09S-28W  
Sheridan 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 03/31/2022 and the ACO-1 was received on August 12, 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