

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) (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	Darrah Oil Company, LLC
Well Name	YOUNKIN 3-10
Doc ID	1677735

All Electric Logs Run

dual induction
micro
porosity
sonic



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68957

DST#: 1

ATTN: Seth Everson

Test Start: 2022.08.27 @ 03:30:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:29:00

Time Test Ended: 11:30:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 4304.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 3046.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

3038.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353 Inside

Press@RunDepth: 83.11 psig @ 4305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.27

End Date:

2022.08.27

Last Calib.:

2022.08.27

Start Time: 03:30:01

End Time:

11:30:45

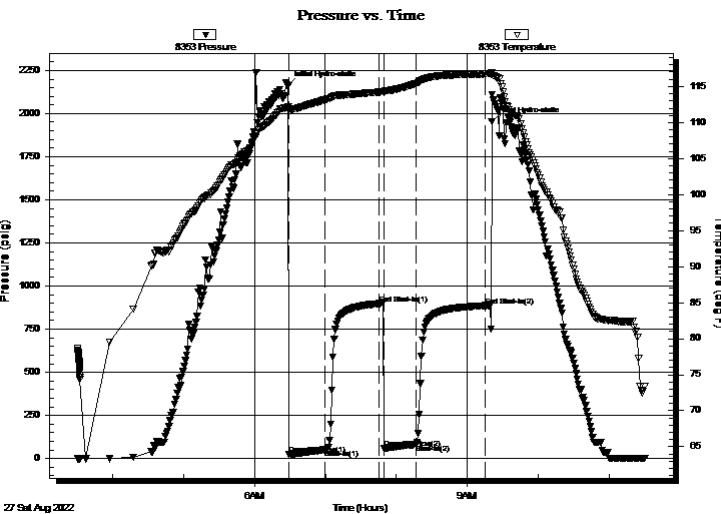
Time On Btm:

2022.08.27 @ 06:28:15

Time Off Btm:

2022.08.27 @ 09:20:45

TEST COMMENT: 30:IF- Weak surface blow , built to 1 1/2 inches in 10 min, final is 3 1/4 inches (48.30 psi)
45:IS- No blow back (887.80 psi)
30:FF- Weak surface blow , built to 1/2 inch in 10 min, final is 3 inches (71.70 psi)
60:FS- No blow back (870.80 psi)



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2162.70	112.13	Initial Hydro-static
1	22.64	111.69	Open To Flow (1)
32	51.40	113.16	Shut-In(1)
78	898.25	114.23	End Shut-In(1)
82	60.78	114.29	Open To Flow (2)
109	83.11	115.43	Shut-In(2)
167	886.56	116.75	End Shut-In(2)
173	1951.30	116.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
177.00	SGMO 90%O 5%G 5%M	0.87
10.00	CO 100%O	0.14

Gas Rates

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



DRILL STEM TEST REPORT

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68957

DST#: 1

ATTN: Seth Everson

Test Start: 2022.08.27 @ 03:30:00

GENERAL INFORMATION:

Formation: **Altamont**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:29:00

Time Test Ended: 11:30:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 4304.00 ft (KB) To 4380.00 ft (KB) (TVD)

Total Depth: 4380.00 ft (KB) (TVD)

Hole Diameter: 7.87 inches Hole Condition: Fair

Reference Elevations: 3046.00 ft (KB)

3038.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8676 Outside

Press@RunDepth: psig @ 4305.00 ft (KB)

Start Date: 2022.08.27

End Date:

2022.08.27

Start Time: 03:30:01

End Time:

11:31:00

Capacity: 8000.00 psig

Last Calib.:

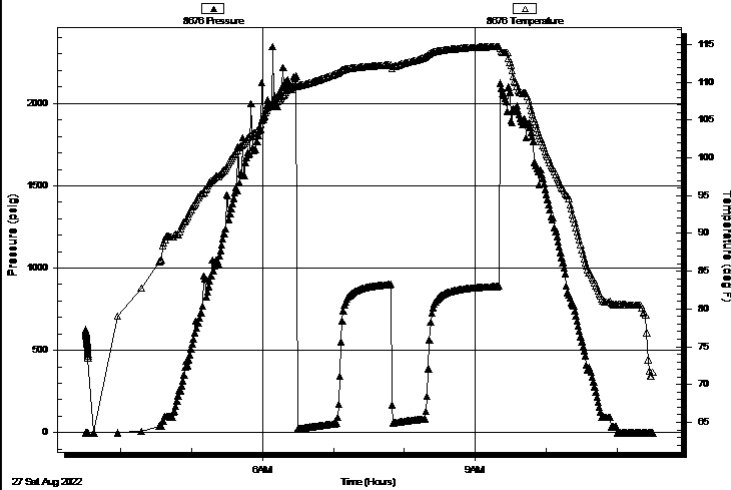
2022.08.27

Time On Btm:

Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1 1/2 inches in 10 min, final is 3 1/4 inches (48.30 psi)
45:IS- No blow back (887.80 psi)
30:FF- Weak surface blow , built to 1/2 inch in 10 min, final is 3 inches (71.70 psi)
60:FS- No blow back (870.80 psi)

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
177.00	SGMO 90%O 5%G 5%M	0.87
10.00	CO 100%O	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68957

DST#: 1

ATTN: Seth Everson

Test Start: 2022.08.27 @ 03:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
177.00	SGMO 90%O 5%G 5%M	0.870
10.00	CO 100%O	0.140

Total Length: 187.00 ft

Total Volume: 1.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

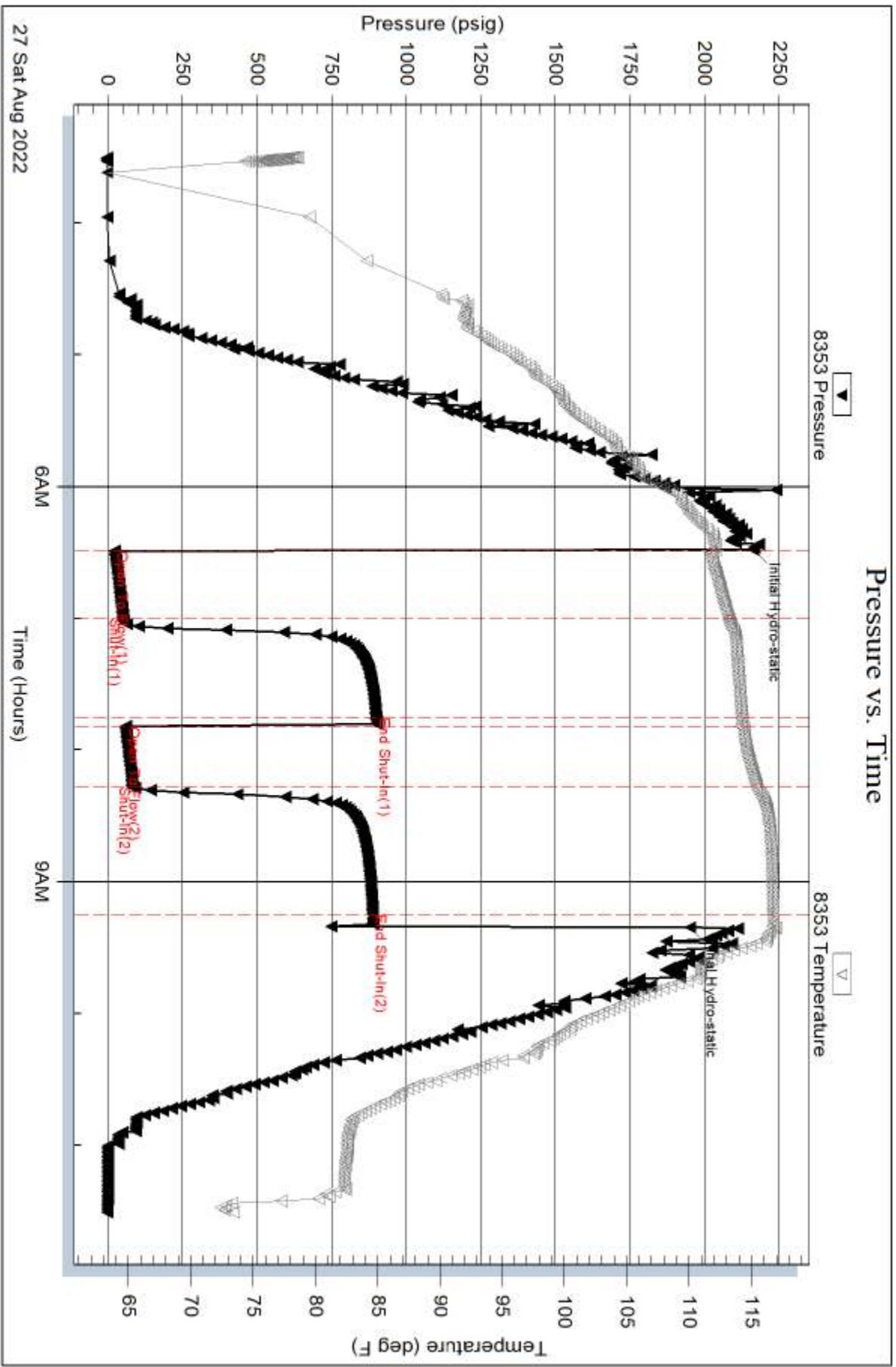
Serial #: 8353

Inside

Darrah Oil Company LLC

Younkin #3-10

DST Test Number: 1

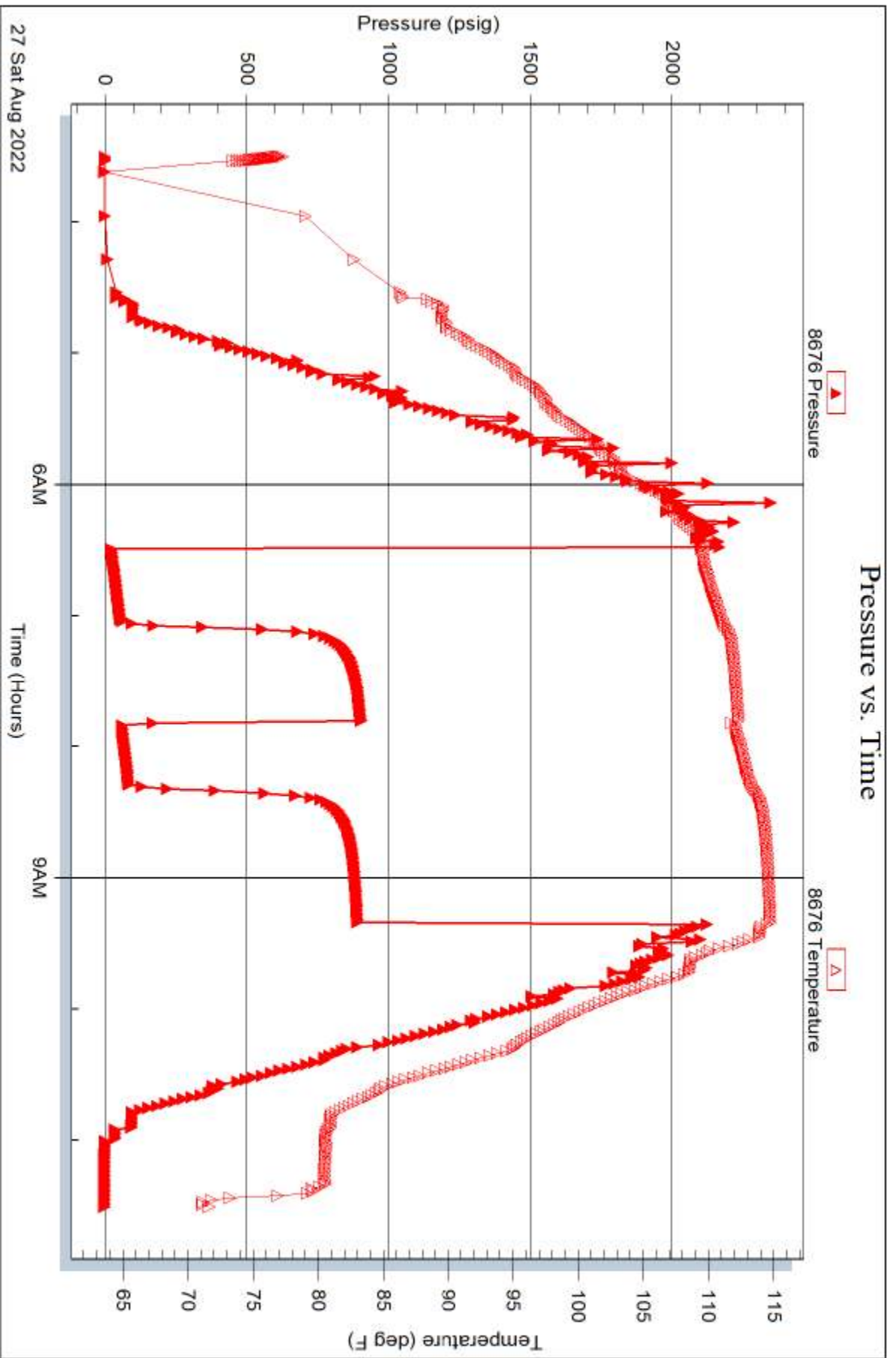


Serial #: 8676

Outside Darrah Oil Company LLC

Younkin #3-10

DST Test Number: 1





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68958

DST#: 2

ATTN: Seth Everson

Test Start: 2022.08.28 @ 07:42:00

GENERAL INFORMATION:

Formation: **Pawnee- Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:00

Time Test Ended: 13:58:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4375.00 ft (KB) To 4493.00 ft (KB) (TVD)

Reference Elevations: 3046.00 ft (KB)

Total Depth: 4493.00 ft (KB) (TVD)

3038.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353

Inside

Press@RunDepth: 34.03 psig @ 4376.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.28

End Date:

2022.08.28

Last Calib.:

2022.08.28

Start Time:

07:42:01

End Time:

13:58:45

Time On Btm:

2022.08.28 @ 09:56:15

Time Off Btm:

2022.08.28 @ 12:05:00

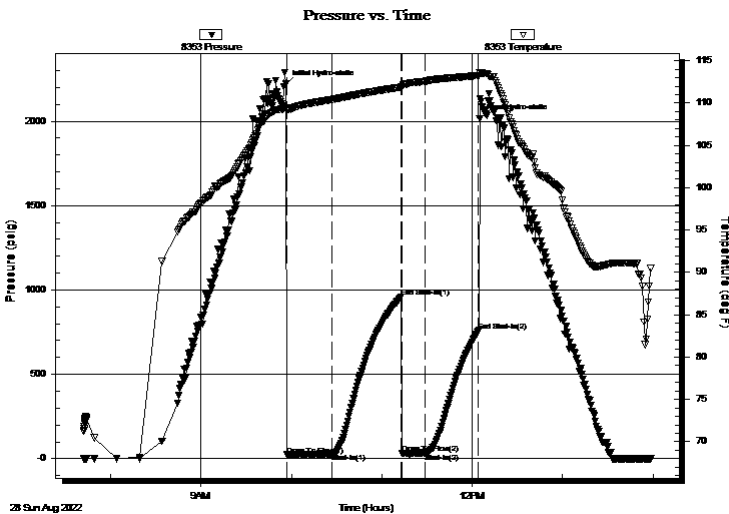
TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min, final is 1/4 inch

45:IS- No blow back

15:FF- No blow

30:FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2219.35	109.43	Initial Hydro-static
1	22.69	109.12	Open To Flow (1)
31	29.36	110.42	Shut-In(1)
77	957.20	111.87	End Shut-In(1)
78	31.78	111.92	Open To Flow (2)
93	34.03	112.57	Shut-In(2)
128	754.74	113.26	End Shut-In(2)
129	2017.08	113.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 95%M 5%O	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68958

DST#: 2

ATTN: Seth Everson

Test Start: 2022.08.28 @ 07:42:00

GENERAL INFORMATION:

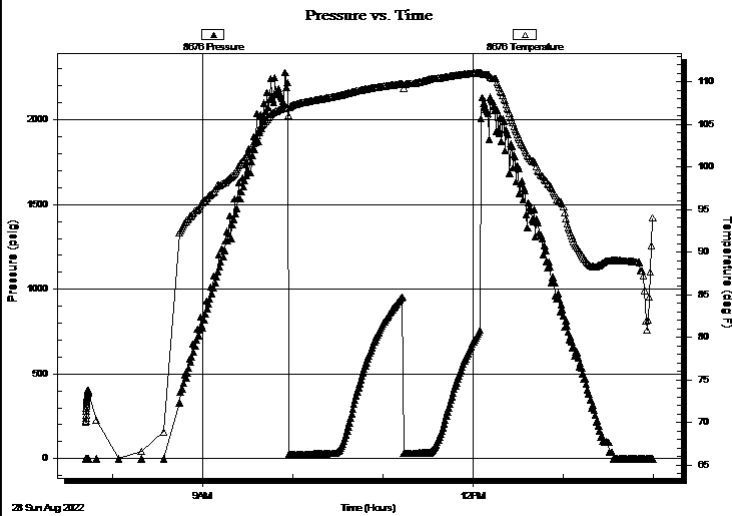
Formation: **Pawnee- Cherokee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 09:57:00 Tester: Nathan Aneas
 Time Test Ended: 13:58:45 Unit No: 71
 Interval: **4375.00 ft (KB) To 4493.00 ft (KB) (TVD)** Reference Elevations: 3046.00 ft (KB)
 Total Depth: 4493.00 ft (KB) (TVD) 3038.00 ft (CF)
 Hole Diameter: 7.87 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8676

Outside

Press@RunDepth: psig @ 4376.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.08.28 End Date: 2022.08.28 Last Calib.: 2022.08.28
 Start Time: 07:42:01 End Time: 13:59:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30:IF- Weak surface blow , built to 1/4 inch in 10 min, final is 1/4 inch
 45:IS- No blow back
 15:FF- No blow
 30:FS- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 95%M 5%O	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68958

DST#: 2

ATTN: Seth Everson

Test Start: 2022.08.28 @ 07:42:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SOCM 95%M 5%O	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

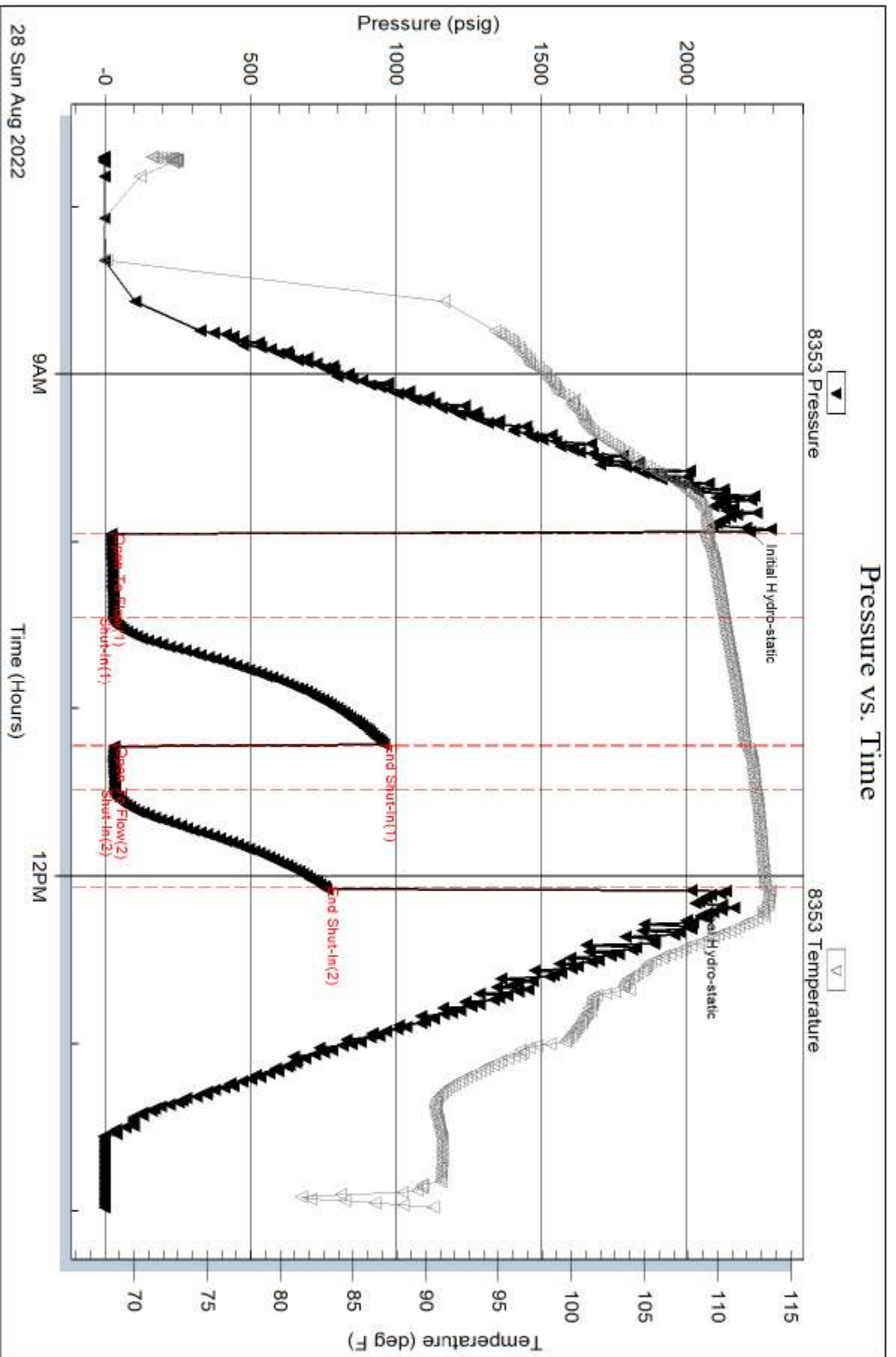
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

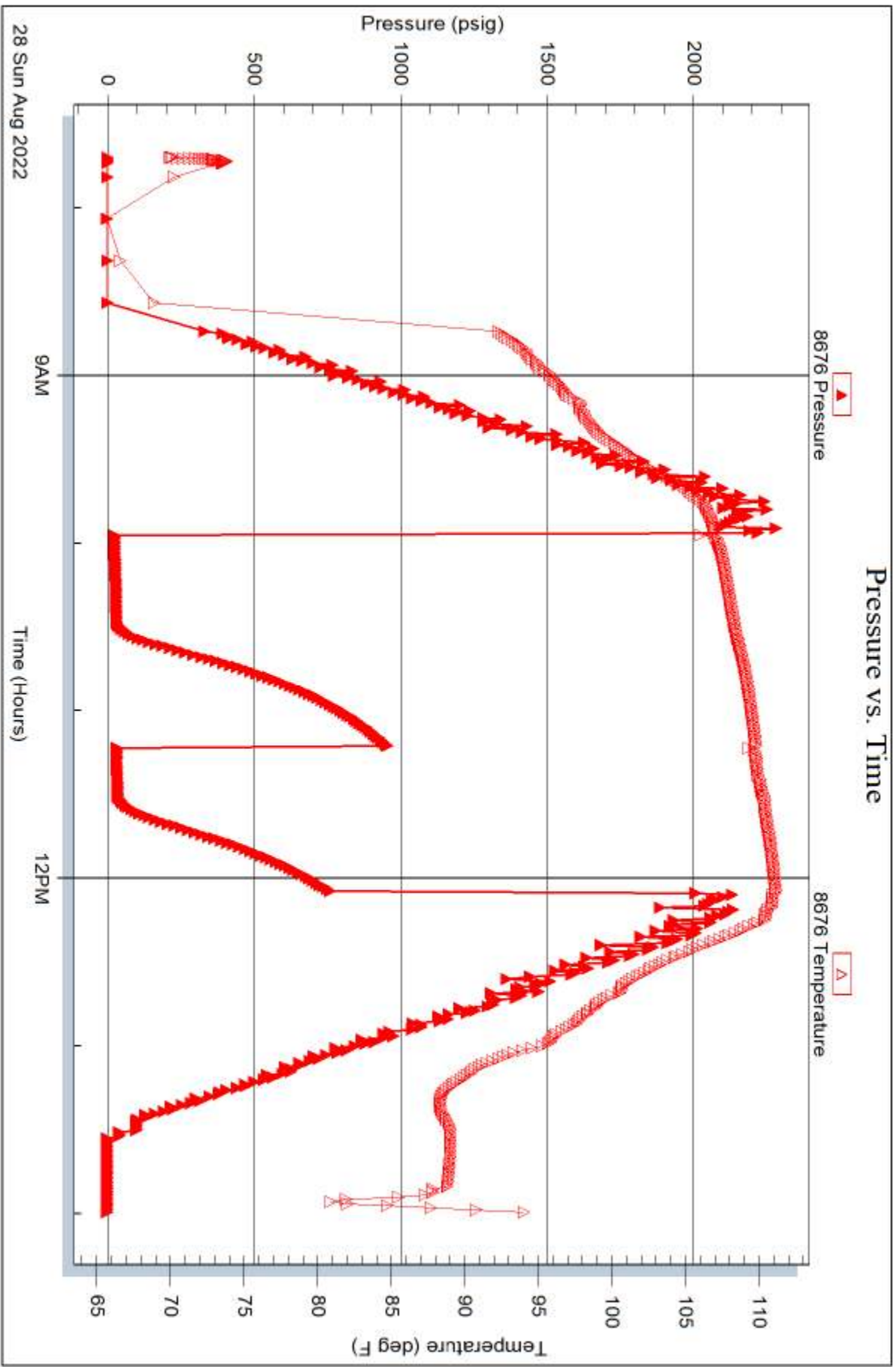


Serial #: 8676

Outside Darrah Oil Company LLC

Younkin #3-10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68958

Printed: 2022.08.28 @ 14:35:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68959

DST#: 3

ATTN: Seth Everson

Test Start: 2022.08.29 @ 07:05:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:04:30

Time Test Ended: 12:13:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 4454.00 ft (KB) To 4556.00 ft (KB) (TVD)

Reference Elevations: 3046.00 ft (KB)

Total Depth: 4556.00 ft (KB) (TVD)

3038.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353

Inside

Press@RunDepth: 26.87 psig @ 4455.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.29

End Date: 2022.08.29

Last Calib.: 2022.08.29

Start Time: 07:05:01

End Time: 12:13:00

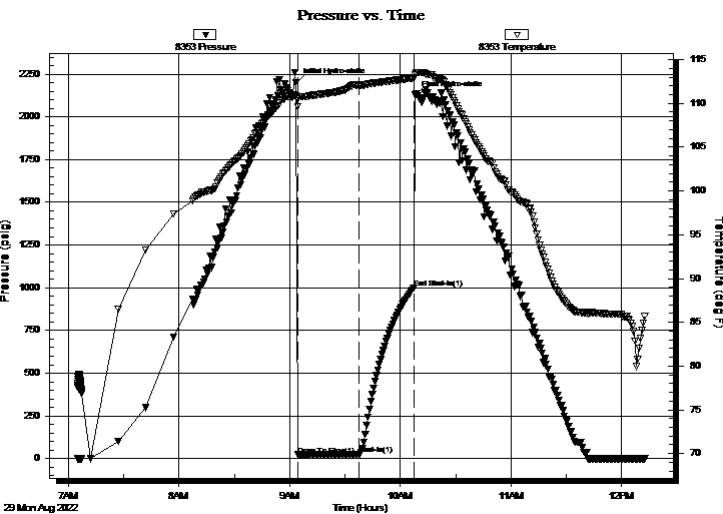
Time On Btm: 2022.08.29 @ 09:03:45

Time Off Btm: 2022.08.29 @ 10:08:00

TEST COMMENT: 30:IF- Weak surface blow , built to nothing died out (23.50 psi)

30:IS- No blow back (992.10 psi)

0: Pulled Test



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.38	110.82	Initial Hydro-static
1	21.29	110.54	Open To Flow (1)
34	26.87	112.06	Shut-In(1)
64	997.03	112.89	End Shut-In(1)
65	2126.84	113.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%M	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

10-14-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #3-10

Job Ticket: 68959

DST#: 3

ATTN: Seth Everson

Test Start: 2022.08.29 @ 07:05:00

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: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud 100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8353

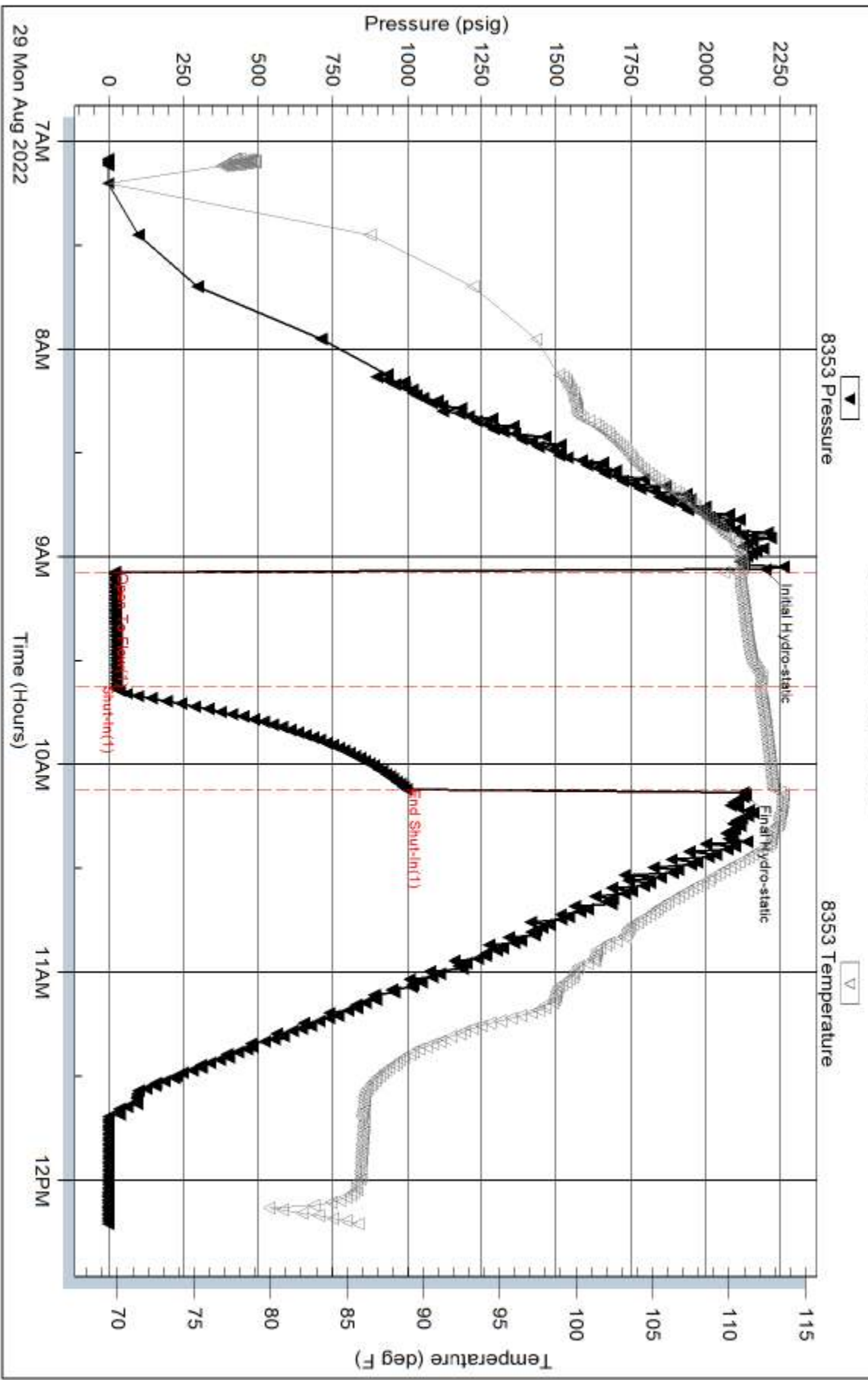
Inside

Darrah Oil Company LLC

Younkin #3-10

DST Test Number: 3

Pressure vs. Time

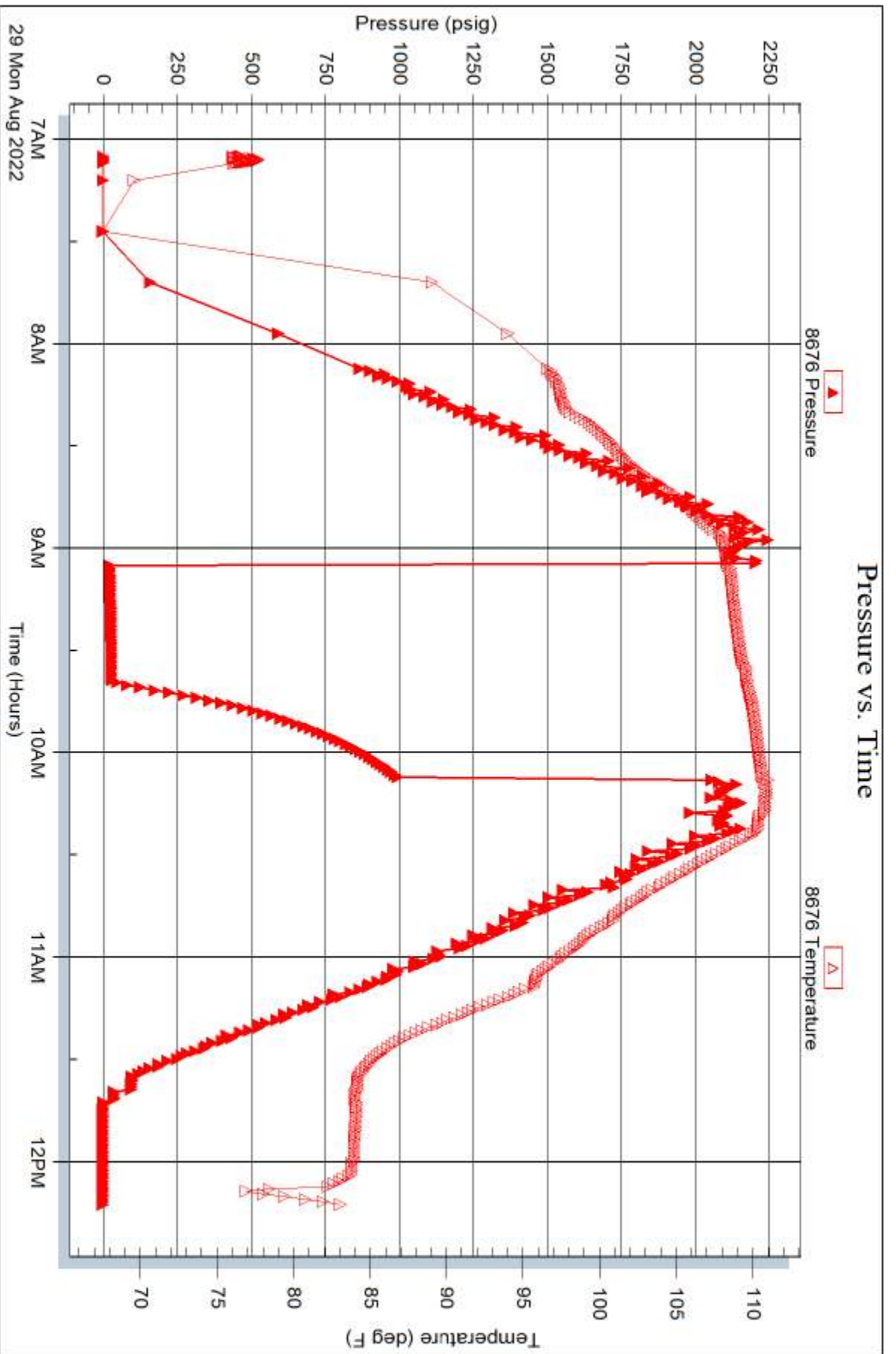


Serial #: 8676

Outside Darrah Oil Company LLC

Younkin #3-10

DST Test Number: 3





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

Customer:
 DARRAH OIL
 C/O JOHN JAY DARRAH JR
 PO BOX 2786
 WICHITA, KS 67201-2786

Invoice Date: 8/23/2022
 Invoice #: 0362751
 Lease Name: Younkin
 Well #: 3-10 (New)
 County: Logan, Ks
 Job Number: WP3264
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	150.000	22.500	3,375.00
Light Eq Mileage	35.000	2.000	70.00
Heavy Eq Mileage	70.000	4.000	280.00
Ton Mileage	247.000	1.500	370.50
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Blending & Mixing	150.000	1.400	210.00
Service Supervisor	1.000	275.000	275.00

Total 5,580.50

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!



Customer Darrah Oil		Lease & Well # Youkin #3-10		Date 8/23/2022	
Service District Oakley KS		County & State Logan ,KS		Legals S/T/R 13-14S-34W	
Job Type Surface		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No	
Equipment #		Driver		Job Safety Analysis - A Discussion of Hazards & Safety Procedures	
64		Spencer		<input checked="" type="checkbox"/> Hard hat <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Lockout/Tagout <input checked="" type="checkbox"/> Warning Signs & Flagging	
208		Jose		<input checked="" type="checkbox"/> H2S Monitor <input checked="" type="checkbox"/> Eye Protection <input checked="" type="checkbox"/> Required Permits <input checked="" type="checkbox"/> Fall Protection	
527/235		Kale		<input checked="" type="checkbox"/> Safety Footwear <input checked="" 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 checked="" type="checkbox"/> Additional Chemical/Acid PPE <input checked="" type="checkbox"/> Overhead Hazards <input checked="" type="checkbox"/> Muster Point/Medical Locations	
				<input checked="" type="checkbox"/> Hearing Protection <input checked="" type="checkbox"/> Fire Extinguisher <input checked="" type="checkbox"/> Additional concerns or issues noted below	
Comments					
Product/ Service Code					
Description		Unit of Measure		Quantity	
Net Amount					
CP015	H-325	sack	150.00		\$3,375.00
M015	Light Equipment Mileage	mi	35.00		\$70.00
M010	Heavy Equipment Mileage	mi	70.00		\$280.00
M020	Ton Mileage	tm	247.00		\$370.50
D010	Depth Charge: 0'-500'	job	1.00		\$1,000.00
C060	Cement Blending & Mixing Service	sack	150.00		\$210.00
R061	Service Supervisor	day	1.00		\$275.00
Customer Section: On the following scale how would you rate Hurricane Services Inc.?					
				Net: \$5,580.50	
				Total Taxable \$ - Tax Rate:	
Based on this job, how likely is it you would recommend HSI to a colleague?				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.	
<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				Sale Tax: \$ -	
				Total: \$ 5,580.50	
HSI Representative: Spencer Savage					

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X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



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

Customer:
 DARRAH OIL
 C/O JOHN JAY DARRAH JR
 PO BOX 2786
 WICHITA, KS 67201-2786

Invoice Date: 9/29/2022
 Invoice #: 0363714
 Lease Name: Younkin
 Well #: 3-10 (New)
 County: Logan, Ks
 Job Number: WP3448
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Port Collar	0.000	0.000	0.00
H-CON	265.000	25.000	6,625.00
Bagged Sand	2.000	32.000	64.00
Light Eq Mileage	35.000	2.000	70.00
Heavy Eq Mileage	70.000	4.000	280.00
Ton Mileage	466.000	1.500	699.00
Depth Charge 2001'-3000'	1.000	2,000.000	2,000.00
Cement Blending & Mixing	265.000	1.400	371.00
Service Supervisor	1.000	275.000	275.00
Cement Service-After 4 Hours	2.000	300.000	600.00

Total 10,984.00

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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	Darrah Oil Co	Lease & Well #	Youkin # 3-10			Date	9/29/2022
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	10-14S-34W	Job #	
Job Type	Port Collar	<input type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input type="checkbox"/> YES	<input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					

78	Jesse	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
528-520	Spencer	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
180-530	Tyler	<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 checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
CP025	H-Con	sack	265.00			\$6,625.00
CP185	Bagged Sand	sack	2.00			\$64.00
M015	Light Equipment Mileage	mi	35.00			\$70.00
M010	Heavy Equipment Mileage	mi	70.00			\$280.00
M020	Ton Mileage	tm	466.00			\$699.00
D013	Depth Charge: 2001'-3000'	job	1.00			\$2,000.00
C060	Cement Blending & Mixing Service	sack	265.00			\$371.00
R061	Service Supervisor	day	1.00			\$275.00
C030	Cement Service - After 4 Hrs on Location	hr	2.00			\$600.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?						Net:	\$10,984.00
Based on this job, how likely is it you would recommend HSI to a colleague? <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				Total Taxable	\$ -	Tax Rate:	
				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.			
				HSI Representative: <i>Jesse Jones</i>			

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X _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Darrah Oil Co	Well: Younkin # 3-10	Ticket: WP-3448
City, State: Monument KS	County: Logan KS	Date: 9/29/2022
Field Rep: Jesse	S-T-R: 10-14S-34W	Service: Port Collar

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	3550 ft
Casing Size:	8 5/8 in
Casing Depth:	ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	port collar
Tool Depth:	2520 ft
Displacement:	8.5 bbls

Calculated Slurry - Lead	
Blend:	H-Cxon
Weight:	12.0 ppg
Water / Sx:	15.5 gal / sx
Yield:	2.56 ft ³ / sx
Annular Bbls / Ft.:	0.0183 bbs / ft.
Depth:	2520 ft
Annular Volume:	46.1 bbls
Excess:	
Total Slurry:	121.0 bbls
Total Sacks:	265 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
10:00a			-	-	Arrival
10:05a				-	Safety meeting
10:10a				-	Rig up
1:00p	6.0	110.0	77.0	77.0	Load hole
1:25p				77.0	Set sand plug
1:30p	1.3	500.0	3.0	80.0	H2O behide sand
1:32p				80.0	30 minute wait
2:05p				80.0	Pull tubing to 2520'
3:20p		500.0		80.0	Open tool
3:30p	3.5	600.0	5.0	85.0	H2O ahead
3:35p	4.5	700.0	121.0	206.0	Mixed 265 sks of H-con @ 12 ppg @ 2520'
4:10p	3.0	670.0	8.5		Displaced H2O
4:20p					Ran 4 joints in hole
4:30p	5.0	550.0	18.0		Reversed out tubing
4:45p					Run tubing in hole to 3550'
5:24p					Reverse out sand plug
5:45p					Wash up
5:52p					Rig down
6:15p					Depart location
					Circulated 20 sks to pit

CREW		UNIT	SUMMARY		
Cementer:	Jesse	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Spencer	528-520	3.9 bpm	519 psi	233 bbls
Bulk #1:	Tyler	180-530			
Bulk #2:					



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

Customer:
 DARRAH OIL
 C/O JOHN JAY DARRAH JR
 PO BOX 2786
 WICHITA, KS 67201-2786

Invoice Date: 8/31/2022
 Invoice #: 0362878
 Lease Name: Younkin
 Well #: 3-10 (New)
 County: Logan, Ks
 Job Number: WP3308
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Port Collar	0.000	0.000	0.00
H-Plug	50.000	14.000	700.00
H-LD Cement Blend	150.000	50.000	7,500.00
Light Eq Mileage	35.000	2.000	70.00
Heavy Eq Mileage	70.000	4.000	280.00
Ton Mileage	320.000	1.500	480.00
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Casing Swivel	1.000	300.000	300.00
Cement Blending & Mixing	200.000	1.400	280.00
Service Supervisor	1.000	275.000	275.00
Mud flush	500.000	1.000	500.00
KCL-CS701	5.000	30.000	150.00
Cement plug container	1.000	250.000	250.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Turbolizers	7.000	125.000	875.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" Port Collar	1.000	3,500.000	3,500.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
High Overhead Connection Chg	1.000	300.000	300.00

Total 19,285.00

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Customer	Darrah Oil Co	Lease & Well #	Younkin # 3-10	Date	8/31/2022
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	10-14S-34W
Job Type	Port collar	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Job #
					Ticket #
					WP-3308

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
78	Jesse	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
528-520	Spencer	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
180-530	Tyler	<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 checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments	










Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP055	H-Plug	sack	50.00	\$700.00
CP014	H-LD Cement Blend	sack	150.00	\$7,500.00
M015	Light Equipment Mileage	mi	35.00	\$70.00
M010	Heavy Equipment Mileage	mi	70.00	\$280.00
M020	Ton Mileage	tm	320.00	\$480.00
D015	Depth Charge: 4001'-5000'	job	1.00	\$2,500.00
C040	Casing Swivel	job	1.00	\$300.00
C060	Cement Blending & Mixing Service	sack	200.00	\$280.00
R061	Service Supervisor	day	1.00	\$275.00
CP170	Mud Flush	gal	500.00	\$500.00
AF055	Liquid KCL Substitute	gal	5.00	\$150.00
C050	Cement Plug Container	job	1.00	\$250.00
FE130	5 1/2" Cement Basket	ea	2.00	\$600.00
FE135	5 1/2" Turbolizer	ea	7.00	\$875.00
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$375.00
FE165	5 1/2" Port Collar	ea	1.00	\$3,500.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$350.00
C075	High Overhead Connection Charge - Over 6 Feet	job	1.00	\$300.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$19,285.00
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	
State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -
		Total:	\$ 19,285.00
		HSI Representative:	Jesse Jones

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X _____ **CUSTOMER AUTHORIZATION SIGNATURE**

ROCK TYPES

-  Coal
-  Lmst fw7>
-  Shgy
-  Shcol
-  Ool grnst
-  Lmst fw<7
-  Ss
-  Shbck
-  Slst

ACCESSORIES

MINERAL

- △ Chert White

OTHER SYMBOLS

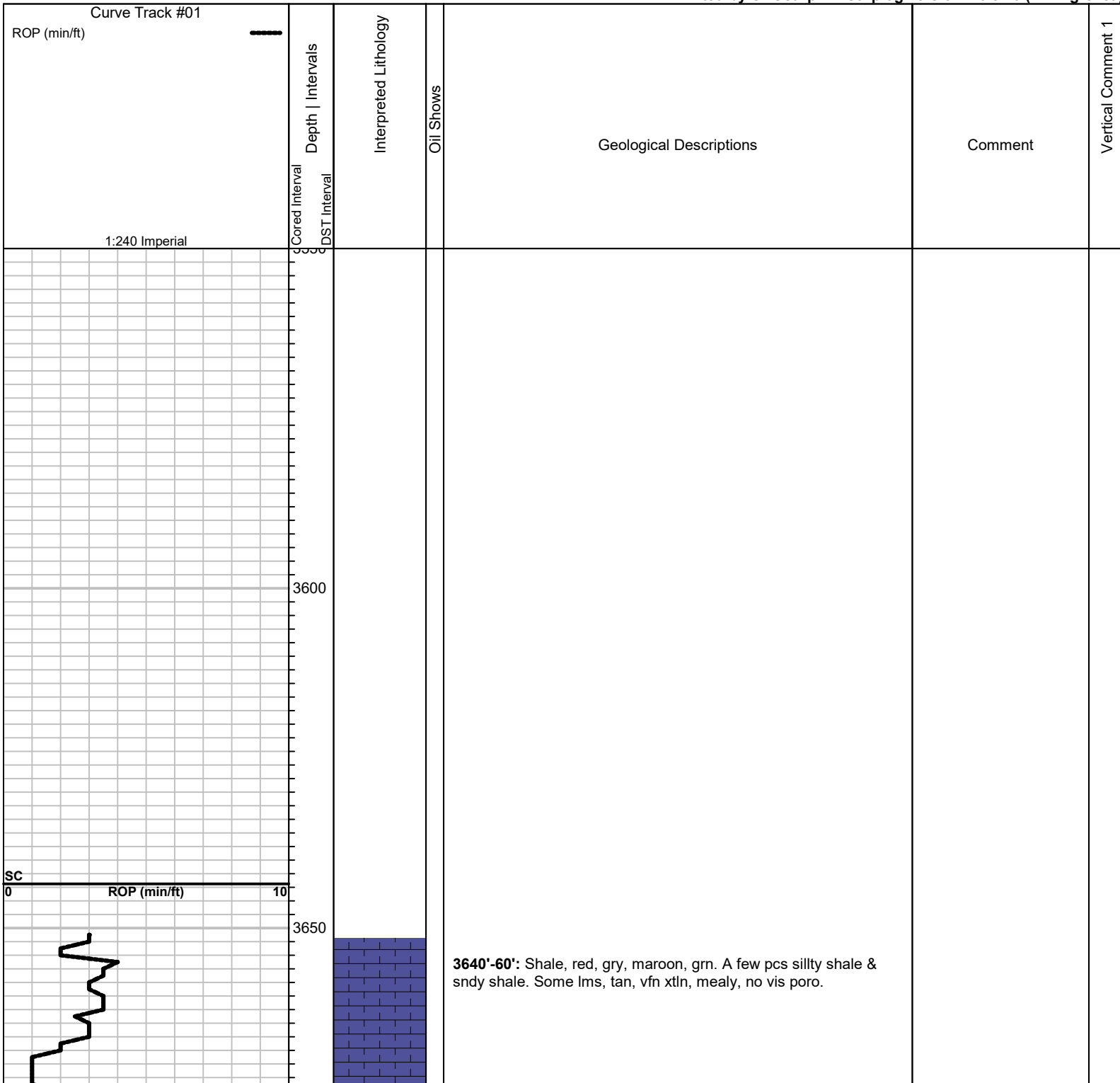
OIL SHOWS

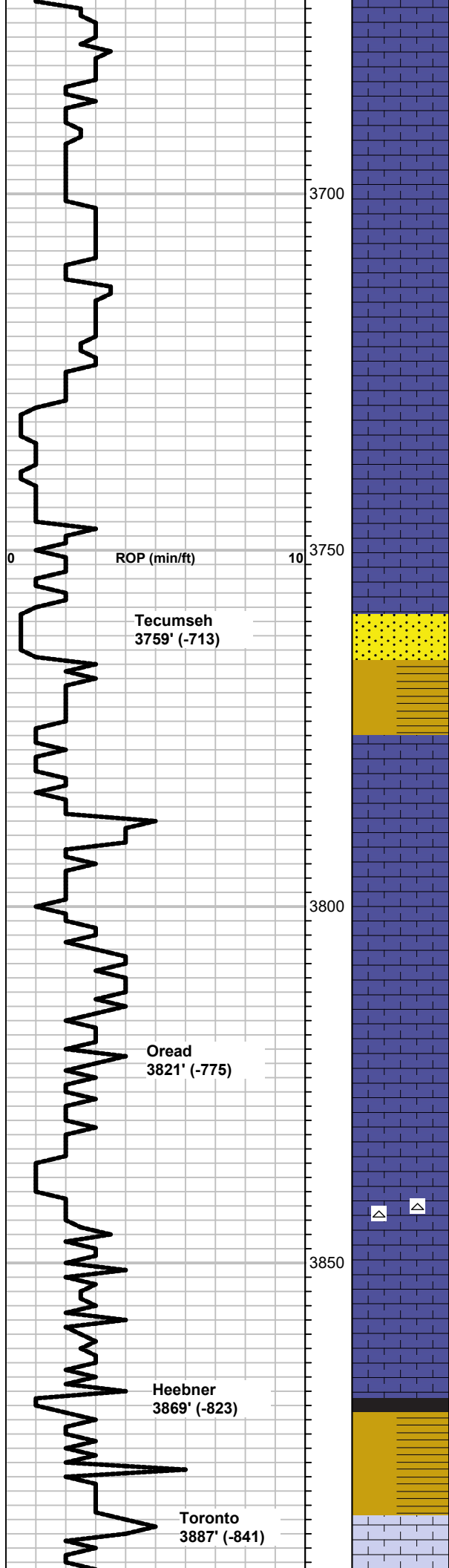
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

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3660'-80': Lms, lt gry, micro-vfn xtln, med res, some sli mealy, some sli ooltc, all vpr-no vis poro.

3680'-3700': Lms, crm to off-wht, micro-vfn xtln, med res, mst non-allchmcl, vpr-no vis poro.

3700'-3720': Lms, tan, vfn xtln, med res, some gry, shaley, mealy, sft-med res, all no vis poro, NS. Trc blk carb shale, & trc chrt.

3720'-40': Lms, tan, vfn xtln, med res, few vis allchms, vpr-no vis poro. Much shale, gry, maroon, grn, trc prpl, & red earthy, some silty.

3740'-60': Lms, tan to lt gry, vfn xtln, med res, mst non-allchmcl, all vpr-no vis poro. Trc chrt. Some chlk, off-wht, sft.

3760'-80': Lms, gry, vfn xtln, med-hrd res, mealy, some poss foss. Also lms, crm-lt gry, vfn xtln, med res, non-allchmcl. All vpr-no vis poro. A few pcs blk carb shale.

3780'-3800': Sndy shale to shaley SS, maroon, vfn grained, sft-med res, no vis poro. Some gry shale, sli sndy/silty. Some lms, crm-tan, micro-vfn xtln, med res, no vis poro.

3800'-10': Lms, crm to tan, vfn-fn xtln, med-hrd res, mst vfw allchms, vpr-no vis poro, NS.

3810'-20': Lms, tan to gry, fn xtln, med res, some sli shaley, mst few vis allchms, all vpr-no vis poro. Some shale, gry, red, etc.

3820'-30': Foss lms, tan, micro-vfn xtln, med-hrd res, vpr vis poro, NS. Some sli shaley lms as abv, few-no allchms, no vis poro.

3830'-40': Lms, crm to lt gry, sft-med res, some sli chlky, few vis allchms, all vpr-no vis poro.

3840'-50': Lms, crm to tan, vfn xtln, med to hrd res, mst non-allchmcl, w/vpr-no vis poro. Several pcs lms, w/good lv blk stn in strks of dissolution poro, and scat pnpt vugs, SSFO on brk, fr rainbw lstr, gd sat in poro, no odr. Pr overall poro.

3850'-60': Lms, crm to lt gry, micro-vfn xtln, med-hrd res, sli chlky, some sli foss (fus), vpr-no vis poro. Some chrt, lt gry, w/spicuals, shrp & frsh.

3860'-70': Lms, tan vfn xtln, med-hrd res, grainy txt. Some lt gry, mottled shaley lms, micro-vfn xtln, also much sft, off-wht chlky. All vpr-no vis poro.

3870'-80': Lms, crm- micro-vfn xtln, med-hrd res, vry sli foss, vpr-no vis poro. Also much chlk, off-wht, sft.

3880'-90': Blk carb shale. Mstly lms, crm to lt gry, sft-med res, sli chlky to sli shaley, all no vis poro.

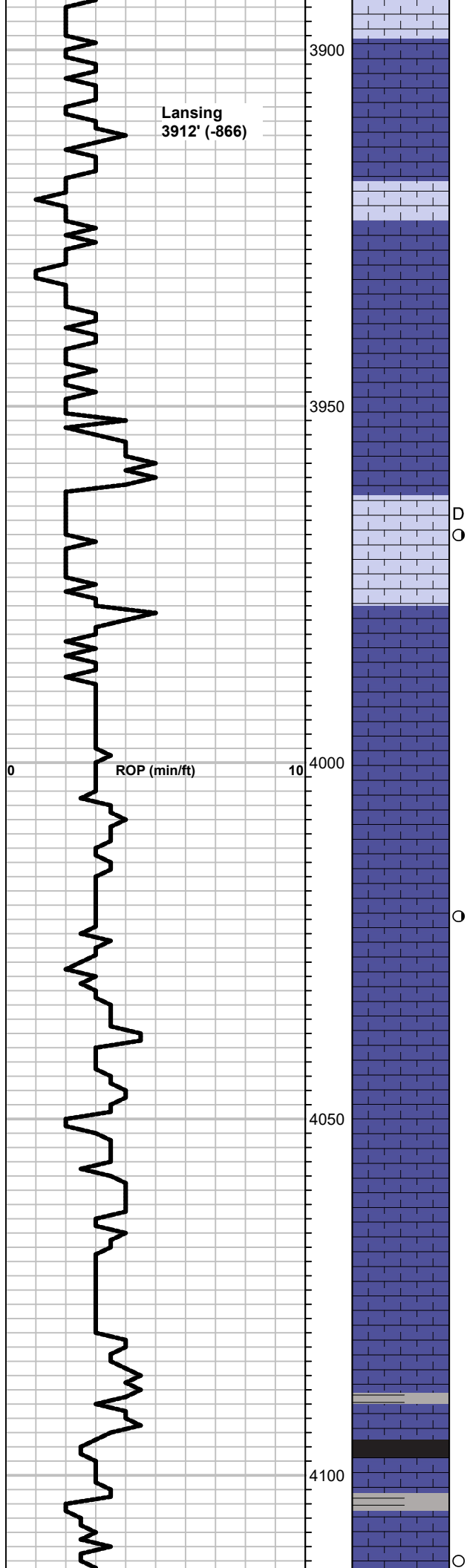
3890'-3900': Oltc lms, crm lt gry, micro xtln, med res, w/scat drk

CFS @ 4320' 20 min: Lms, gry, micro-xtln, hrd res, sli foss, mst no vis poro. Some pcs, lms, tan-gry, micro-xtln, hrd res, w/scat lv blk stn in intr-xtln dissolution & intr-foss vugs, vpr-no intr-vugular poro, pr vugular poro, trc FO, sli odr.

CFS @ 4320' 40 min: Lms, gry, micro-xtln, hrd res, gd lv blk stn in fr-gd intr-foss & intr-xtln, vugular poro, fr sat, SSFO, vsli odr. Better poro than 20 min smpl, still many pcs w/vpr poro. Mst pcs lms, gry, dns, tite, non-allchmcl. Much shale, maroon, red, gry, blk, grnsh/gry.

CFS @ 4330' 20 min: Lms, gry, micro-xtln, med-hrd res

**Lansing
3912' (-866)**



3930'-3950': Oolitic lms, crm-tan gry, micro-xtln, med res, w/scat drk gry-blk ooids, mst no vis poro. 1 pc w/gd lv blk stn on edge, NSFO. Some lms vry chlky.

3900'-10': Chlk, off-wht, sft. Some lms, crm to gry, micro-vfn xtln, few-no vis allchms, med res, vpr-no vis poro.

3910'-20': Lms, crm, micro xtln, med res, some sft, sli chlky, vfew to no vis allchms, vpr-no vis poro.

3920'-30': Lms, crm to gry, micro-xtln, sft-med res, few-no vis allchms, some chlky, vpr-no vis poro.

3930'-40': Oolitic lms, gry-tan, abndt ooids, mstly non-vuglar, pr poro, NS. Vry much sft off-wht chlk. A few pcs shale, grn, red, gry.

3940'-50': Chlk, off-wht, sft. Some oolitic lms, tan, abndtly, oolitic, sli vugular, pr poro, NS. Some dns tan to gry lms, micro-xtln. Sli increase in maroon & blk shales.

3950'-60': Lms, crm, micro xtln, med res, few vis allchms, no vis poro.

3960'-70': Shale, maroon, drk gry, red earthy, trc grn, some sli silty. Also, lms, gry to brwn, micro-vfn xtln, hrd res, sli foss to sli oolitic, tite, no vis poro.

3970'-80': Lms, tan-brwn-gry, micro-vfn xtln, some sli oolitic to sli foss, med- hrd res, many pcs w/scat blk tarry to asphltc stn in rare scat pnpt and rare vugular poro, vpr overall poro. Mst stn, dead to tarry/stky, a few pcs w/sli livley stn, NSFO, no odr. Wk shw.

3980'-90': Lms, crm, micro-vfn xtln, med res, vfew allchms, mst tite, vpr-no vis poro mst pcs. A couple pcs sli oolitic, w/vry pr vugular poro, NS.

3990'-4000': Lms, crm, micro-vfn xtln, med-hrd res, a few sli oolitic, w/vpr vugular poro, NS. Some off-wht chlky lms.

4000'-10': Lms, crm-tan, vfn xtln, med-hrd res, trc foss, mst few-no vis allchms, vpr-no vis poro.

4010'-20': Lms, crm-tan-lt gry, micro-vfn xtln, med res, few allchms, all vpr-no vis poro. Some blk carb shale, also grn & gry shale.

4020'-30': Lms, tan to gry, med res, micro-vfn xtln, scat spty lv drk brwn stn in rare scat pnpt intr-xtln poro, and rare oomldc vugs, VSSFO on brk, no odr. Vpr poro overall.

4030'-40': Oolitic lms, crm-tan, micro-vfn xtln, some sli chlky, some w/scat shallow oomldc vugs, pr poro, NS. 1 pc lms as abv, w/VSSFO on brk. Much shale, lt gry, grn, red, blk carb sft.

4040'-4050': Lms, crm, micro-vfn xtln, med res, few allchms. Some lms, micro-xtln, med res, brwn, mottled. All vpr-no vis poro.

4050'-60': Lms, crm, micro xtln, med res, some hrd res, mst non-allchmcl, a few sli oolitic, w/rare oomldc vugs, NS. Mst vpr-no vis poro. Much chrt, off-wht to lt gry, shrp & frsh.

4060'-70': Lms, crm, med res, micro-xtln, mst non-allchmcl, no vis poro. Some pcs abndtly oolitic, to sli foss, w/rare vugular poro, NS.

4070'-80': Lms, crm to lt gry, mst, micro-xtln, med-hrd res, non-allchmcl, no vis poro.

4080'-90': Lms, crm, micro-xtln, med-hrd res, some foss, a few w/rare scat intr-foss vugs, pr poro, NS. Mst wfew allchms, vpr-no vis poro.

4090'-4100': Lms, lt gry, some tan, crypto-micro xtln, hrd res, some sli foss, mst vfw-no allchms, a few tan pcs w/vrare scat intr-xtln vugs, NS. Mst pr-no vis poro. Trc blk carb shale.

4100'-10': Much blk carb shale. Mstly lms, gry, some brwn, micro xtln, med, mst hrd res, few vis allchms, no vis poro.

some off-wht mshy chlk, some mshy lt gry shale, and some shale gry, red, drk gry, maroon. A few pcs lms gry, w/scat lv stn in dissolution vugs, pr overall poro, SSFO, prob 4320' zone.

CFS @ 4330' 40 min: Lms, crm-gry, micro-xtln, med res, mst no vis poro. many w/drk gry to blk inclns, much shale, gry to lt gry, some mshy.

Short smpl @ 4345': Shale, gry, red, maroon, some blk carb fissile. Mstly lms, crm to gry, micro-xtln, med res, mst vfw-no vis allchms, some sli chlky to shaley, all vpr-no vis poro.

CFS @ 4345' 20 min: Shale, gry, red, maroon, grn, a few blk carb fissile. Mstly lms, gry, some crm, micro-xtln, med-hrd res, mst non-allchmcl, mst all vpr-no vis poro 1 pc lms, gry, scat lv stn in minute pnpt poro, vpr poro, w/trc FO. Also some off-wht, mshy chlk.

CFS @ 4345' 40 min: Lms, gry, a few tan, crypto-micro xtln, med-hrd res, mstly non-allchmcl, tite, no vis poro. Much shale, gry, red, maroon, blk carb.

CFS @ 4370' 20 min: Lms, drk gry, vfn xtln, hrd res, sli foss, vpr-no vis poro. Abndt chrt, drk brwn to smky gry, some lt gry smky trnsclnt, to pnk & reddish, some foss, mst sli weathrd, some shrp & frsh.

CFS @ 4370' 40 min: Shaley lms, gry, vfn xtln, sft res, sli foss, no vis poro. Much shale, drk gry, grn, red, and fissile blk carb. Some chrt, as in 20 min smpl.

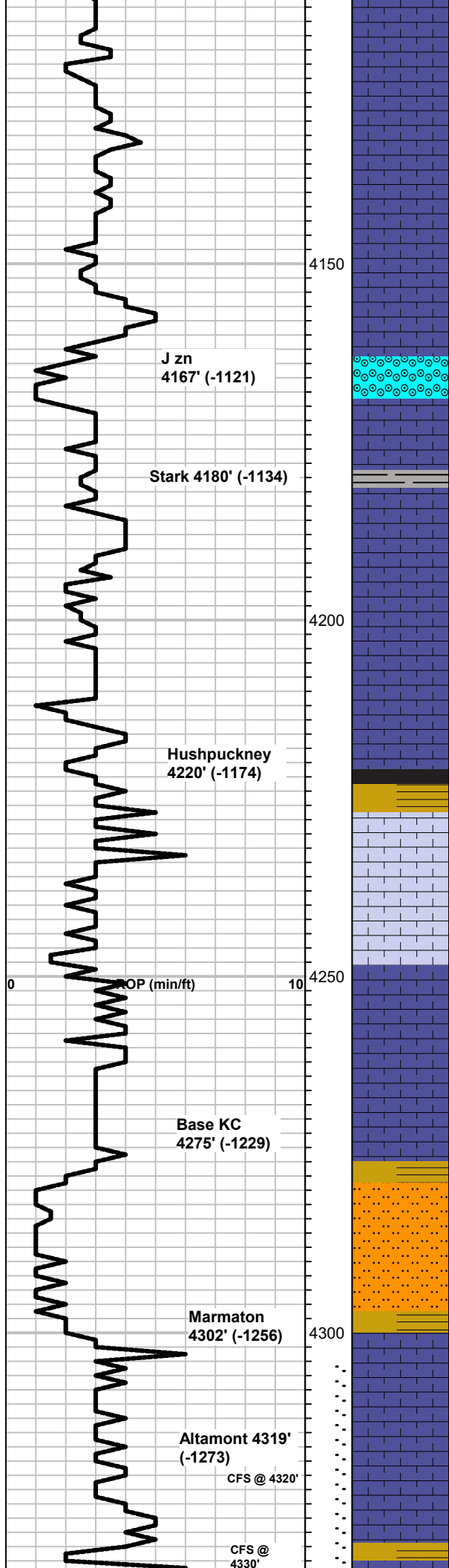
CFS @ 4380' 20 min: Lms, tan, some gry, micro-xtln, med-hrd res, some oolitic, non-vugular, all vpr-no vis poro.

CFS @ 4380' 40 min: Lms, tan, some lt gry, micro-fn xtln, med-hrd res, some oolitic, mst few-no vis allchms, all vpr-no vis poro.

CFS @ 4400' 20 min: Lms, gry-tan, micro-xtln, mstly tite, non-allchmcl, no vis poro. A couple pcs lms, gry, micro-xtln, w/wk-fr scat lv blk stn in strks, VSSFO on brk, prob drilled past shw. Mstly shale, gry, blk carb, maroon, red.

CFS @ 4400' 40 min: Lms, gry to lt gry, some crm, crypto-micro xtln, med-hrd res, non-allchmcl, no vis poro.

CFS @ 4434' 20 min: Lms, gry, micro-vfn xtln, hrd res, some med res, sli foss, vpr-



4110'-20': Lms, micro xtlm, med-hrd res, fossiliferous, pr-no vis poro, NS.

4120'-30': Lms, crm to lt gry, micro-xtlm, med res, mst non-allchmcl, no vis poro. 1 pc lt gry lms, w/gd lv blk stn in scat pnpnt poro, trc FO on brk, no odr, pr poro overall. Trc chrt.

4130'-40': Lms, brwn, micro xtlm, med-hrd res, sli foss, no vis poro.

4140'-50': Lms, gry, some sli shaley to vry sli chlky, micro xtlm, med res, mst non-allchmcl, no vis poro. 1 pc gry lms, w/scat blk stn in vpr intr-xtlm poro, trc stky brwn FO on brk, trc tarry blk oil.

4150'-60': Lms, crm-lt gry, micro-xtlm, med res, sli chlky, several pcs w/gd spty blk stn, lv to flky, in pr intr-xtlm & pr pnpnt poro, a few sli foss, w/rare foss cast poro, trc stky drk brwn-blk oil on brk, vsli odr, vdull yell fluor, gd strming cut. Mst pcs, crm-gry, sli chlky, non-allchmcl, no vis poro. Some off-wht chlk.

4160'-70': Lms, tan, crypto-micro xtlm, med-hrd res, some sli foss, all vpr-no vis poro, NS. Much lt gry mshy shale.

4170'-80': Oomldc vugular lms, tan to lt gry, micro-xtlm, med-hrd res, fr vugular poro, & pr matrix/intr-xtlm poro, prly conn vugs, NS.

4180'-90': Lms, gry to tan, crypto-micro xtlm, med-hrd res, mst vfew vis allchms, tite, no vis poro.

4190'-4200': Lms, gry to drk gry/brwn, crypto-micro xtlm, hrd res, mst few-no vis allchms, tite, no vis poro.

4200'-10': Ooltc lms, tan, micro-xtlm, med res, w/gd lv blk stn in strks of intr-ooltc poro, VSSFO on brk, some tarry oil, sli odr, vpr matrix poro, mstly pr intr-ooltc vugular poro, some fr vugular poro, pr overall poro. Mstly lms, tan-gry, sli ooltc, micro xtlm, hrd res, no vis poro, & NS.

4210'-20': Lms, crm, vfn xtlm, med-hrd res, non-allchmcl, vpr-no vis poro.

4220'-30': Lms, crm, micro-xtlm, med res, mst few-no vis allchms, vpr-no vis poro. Some gry chrt, shrp, sli weathrd.

4230'-40': Lms, crm-gry, micro-xtlm, med res, some hrd res, mst tite, no vis poro, 1 pc w/scat lv blk stn in minute pnpnt poro, trc FO on brk, vpr poro, vwv shw. Much blk carb shale. Trc chrt.

4240'-50': Ooltc lms, sli shaley, gry, micro to vfn xtlm, med-hrd res, abndt blk ooids, vpr-no vis poro. Also, lms, tan tite, vpr-no vis poro. Some off-wht chlk, sft.

4250'-60': Lms, gry, cypto-xtlm, hrd res, vfew-no vis allchms, dns, no vis poro.

4260'-70': Lms, crm-gry, micro-xtlm, med res, some sli allchmcl, all vpr-no vis poro.

4270'-80': Lms, gry to some crm, micro-xtlm, med res, foss, w/many small inclns, all vpr-no vis poro. Also much chlk, sft, off-wht. Some blk carb shale.

4280'-90': Lms, crm, some lt gry, micro-xtlm, med res, mst w/few-no allchms, a few w/sli foss inclns, all vpr-no vis poro. Some blk carb shale.

4290'-4300': Lms, gry, micro-xtlm, med-hrd res, some sli foss, mst non-allchmcl. Also lms, tan, sli chlky, micro-xtlm, sft-med res, non-allchmcl. All vpr-no vis poro. Some shale, drk gry to blk fissile.

4300'-10': Sndy shale, gry, poss trc shaley SS, No vis poro, NS. Much mshy silty shale, lt gry/brwn. Some shale red, maroon, blk, grn.

4310'-20': Lms, crm to gry, micro-xtlm, med res, mst non-allchmcl, no vis poro.

4320'-30': Lms, crm-gry, micro-xtlm, med res, mst vpr-no vis poro. A few pcs lms, gry, micro-xtlm, w/scat lv blk stn in rare intr-xtlm & dissolution vugs, sli foss, pr overall poro, NSFO. Much shale.

4330'-40': Lms, crm-gry, micro-xtlm, med-hrd res, mst few-no vis allchms, vpr-no vis poro. Some gry chrt, shrp, sli weathrd.

Some shale, blk carb, gry, grnsh. A few pcs chrt, drk gry.

CFS @ 4434' 40' min: Lms, crm to tan, vfn xtlm, med-hrd res, non-allchmcl, vpr-no vis poro. Some off-wht chlk, sft.

Short smpl @ 4456': Much blk carb shale. Also, lms, tan to gry, mst abndtly ooltc, crypto-micro xtlm, med res, vpr-no vis poro. 1 pc tan ooltc lms, w/wk lv stn in pr intr-ooltc poro, sli rainbw lstr on brk, vfntr odr in smpl.

CFS @ 4456' 20 min: Ooltc lms, tan, abndtly ooltc, crypto-micro xtlm, med-hrd res, vpr-no poro mst pcs. Some pcs w/wk rare spty lv stn in vpr intr-ooltc pnpnt poro, wk rainbw lstr, vwv sat & trc FO on brk, wk odr. A few pcs foss lms, gry-tan, vpr-no vis poro, NS.

CFS @ 4456' 40 min: Shaley lms, drk gry-gry, crypto-micro xtlm, med res, trc foss inclns, no vis poro. Also lmy drk gry shale, and shale, gry, some mshy.

CFS @ 4493' 30 min: Lms, crm, micro-xtlm, med res, mst w/few vis allchms, a few pcs tan-gry lms, sli foss (fus), all vpr-no vis poro. Some sft mshy chlk. Also some shale, blk carb, gry, grn.

CFS @ 4493' 60 min: Lms, drk gry to tan, micro-xtlm, med-hrd res, mst vfew to no vis allchms, a few ooltc to vsli foss. All vpr-no vis poro.

CFS @ 4520' 30 min: Lms, lt gry to crm, micro-xtlm, med res, mst non-allchmcl, no vis poro. 1 pc gry, vfn xtlm, w/trc lv drk brwn stn, vpr poro, NSFO. Some crm lms, sli chlky, no vis poro.

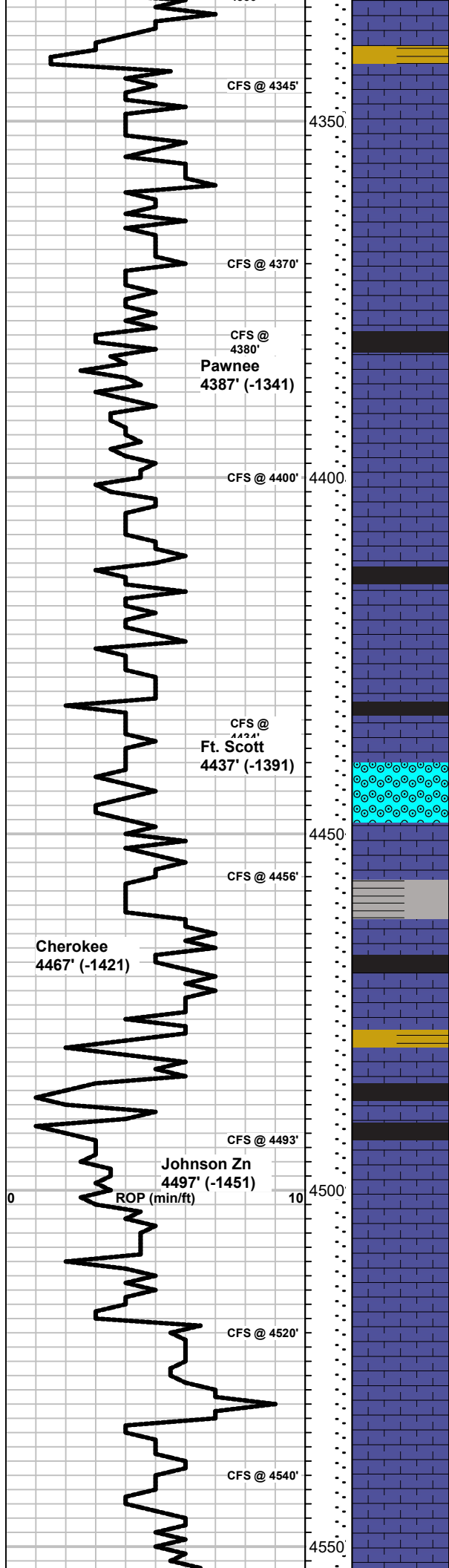
CFS @ 4520' 60 min: Much gry mshy shale. Also lms, gry-tan, micro-xtlm, sft-med res, sli shaley to chlky, no vis poro.

CFS @ 4540' 30 min: Lms, tan to gry, micro xtlm, med res, sli foss, vpr-no vis poro.

CFS @ 4540' 60 min: Lms, gry to tan, micro-vfn xtlm, med-hrd res, mst vfew-no vis allchms, vpr-no vis poro.

Short sample @ 4556': Lms, gry-tan, micro-xtlm, med res, vfew-no vis allchms, no vis poro. A few pcs dolo, as abv. Some shale, gry, grn, maroon.

CFS @ 4556' 30 min: Mstly shale, gry-drk gry, grn, red. Much lms, tan-gry, micro-xtlm, med-hrd res, mstly non-allchmcl. A few pcs, shaley, conglmtrc lms, gry/grn mottled. 1 pc shaley dolo,



4230'-40': Lms, some crm, micro-xtln, med-hrd res, mstly non-allchmcl, some sli oolc, all vpr-no vis poro. Some chlkly/shaley lms. Much shale, gry, red, grnsh.

4345'-50': Lms, lt gry, micro-xtln, med-hrd res, mstly non-allchmcl, no vis poro. Much shale, maroon, drk gry, prpl, red, grn.

4350'-60': Lms, crm to tan, micro-xtln, med res, sli foss (pelycpd), some sli chlkly, all vpr-no vis poro.

4360'-70': Shaley lms, gry to prpl, 1 pc mottled, micro-xtln, med-hrd res, few-no vis allchms, no vis poro. Also, lmy shale, drk gry-prpl. Some shale, gry, maroon, red, grnsh/gry.

4370'-80': Lms, tan to gry, micro-xtln, med-hrd res, mst few-no vis allchms, & vpr-no vis poro. 1pc lms, gry, micro-xtln, w/scat lv blk stn in rare intr-xtln dissolution vugs, VSSFO, pr overall poro. Some shale, gry, blk, maroon, trc red.

4380'-90': Lms, crm-gry, crypto-micro xtln, med res, mst non-allchmcl, no vis poro. Several pcs lms, lt gry, crypto-micro xtln, med res, w/scat spty lv blk stn in pnpnt poro and strks intr-xtln pnpnt poro, pr poro, wk sat, trc FO on brk, fr odr in smpl.

4390'-4400': Shale, much blk carb, maroon, gry, red, grn. A few pcs lms, gry, micro-xtln, med res, w/strk lv blk stn in pnpnt poro, fr rainbw lstr on brk, NSFO, Some similar lms, dns, tite, no vis poro.

4400'-10': Lms, gry, micro-xtln, med-hrd res, mst non-allchmcl, trc foss (crnds), no vis poro. Much chrt, drk gry, shrp & frsh. 1 pc xtln pyrite.

4410'-20': Lms, gry to tan, micro to vfn xtln, med-hrd res, fossiliferous, scat lv brwn stn in minute intr-xtln pnpnt poro, trc FO, vfnt odr, vpr poro, mst pcs tite, NS.

4420'-30': Lms, gry, micro-vfn xtln, hrd res, sli foss (pelycd, etc.), vpr-no vis poro. Some chrt, drk gry, sli foss, shrp & frsh. Much shale, blk carb, also, drk gry, maroon, drk grn, trc red.

4430'-40': Lms, tan, micro-vfn xtln, med res, Mst all non-allchmcl, no vis poro.

4440'-50': Lms, tan to gry, micro-xtln, med res, mst non-allchmcl, mst all no vis poro. A few small pcs w/spty scat lv stn in pr pnpnt intr-xtln poro, 1 pc oolc w/lv stn btw ooids, vsli odr. Much chrt, gry, foss.

4450'-60': Shale, gry, blk carb, red, maroon, grn. Mstly lms, gry crypto-micro xtln, med-hrd res, mstly non-allchmcl. Also lms, tan, micro-xtln, sli chlkly, sft-med res, mst all vpr-no vis poro. Many pcs oolc lms, as abv, 1 pc w/spty lv stn & fr rainbw lstr on brk.

4460'-70': Lms, tan to gry, micro-xtln, med-hrd res, mst non-allchmcl, some oolc as abv, all vpr-no vis poro, NS. Trc lt gry oolc chrt, & a few pcs gry chrt, shrp & frsh.

4470'-80': Lms, lt gry to crm-tan, micro xtln, some crypto, med-hrd res, mstly non-allchmcl, vpr-no vis poro. Much shale, drk gry, drk grn, blk carb.

4480'-90': Blk carb shale, also drk gry, & grnsh shale. Mostly lms, drk gry to tan, micro-xtln, med-hrd res, some w/scat foss inclns, all vpr-no vis poro.

4490'-4500': Lms, gry-tan, crypto-xtln, med-hrd res, non-allchmcl, tite, no vis poro. Mstly shale, gry, red, maroon, grn, blk (trip trsh?).

4500'-10': Mstly blk carb shale. Also lms, gry, shaley to chlkly, sft-med res, some pcs w/pr-fr scat spty lv stn in pnpnt poro, sli-fr rainbw lstr on brk, NSFO, no odr. Vpr poro.

4510'-20': Lms, gry, micro-xtln, med res, mst non-allchmcl, some w/drk gry-blk inclns, all no vis poro. Also, lms, tan, micro-xtln, sli chlkly, no vis poro. 1 pc crm lms, w/spty lv stky stn in pnpnt poro, trc FO.

4520'-30': Lms, gry-tan, crypto-micro xtln, med res, mst non-allchmcl, no vis poro. Some lms, gry to brwn, micro-vfn xtln, w/fr spty lv stn in pr pnpnt intr-xtln poro, wk-fr sat mst pcs, (1 pc fully sat), VSSFO, sli odr, wk shw.

4530'-40': Lms, tan, micro-xtln, med res, foss, vpr-no vis poro. A few pcs lms, gry, as abv, w/fr-gd sat, NSFO. Much shale, gry, blk, grn, trc red. A few pcs shaley SS to sndy shale, grn, no vis poro.

4540'-50': Lms, tan-gry, some crm, micro-vfn xtln, med res, mst non-allchmcl, a few sli foss, all vpr-no vis poro. Also, dolo, gry-brwn, vfn-xtln, vpr-no vis poro. Some chrt, gry, off-wht to bone-pnkish, shrp & frsh. Much shale, drk gry, grn, red.

gry, fn xtln. All vpr-no vis poro.

CFS @ 4556' 60 min: Shale, gry-drk gry, grn, grnsh, gry, trc maroon. Some lms, tan to gry, micro-xtln, vfew-no vis allchms, no vis poro.

CFS @ 4576' 20 min: Lms, tan-crm, micro-xtln, med res, mstly non-allchmcl, trc foss. Some shale, gry to drk gry, grnsh.

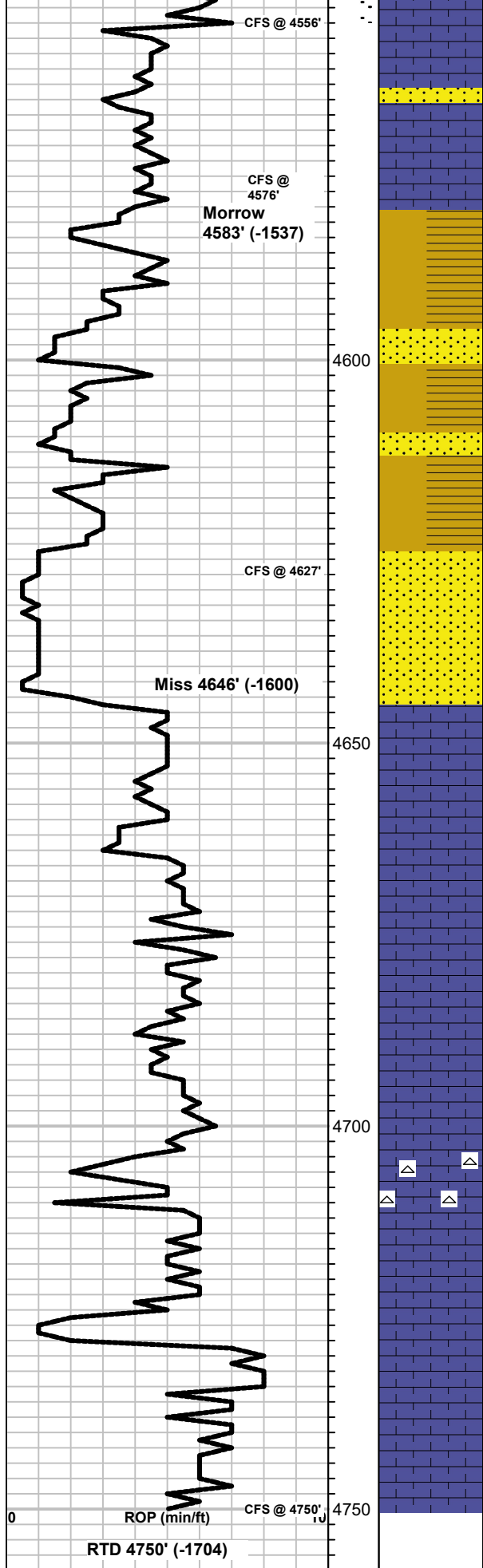
CFS @ 4576' 40 min: Increase in shales, gry & gry, a few maroon. Some lms, crm-tan, crypto-micro xtln, med res, non-allchmcl. Trc pyritized lms.

CFS @ 4627' 20 min: Shale, gry to grnsh gry, some splintry. Much lms, crm-tan, micro-xtln, med res, some sli foss (crnd, bryzn), no vis poro.

CFS @ 4627' 40 min: Shale, gry-drk gry, some grnsh gry. Much lms, tan-crm, micro-xtln, med res, sli foss (crnd, bryzn), some chlkly lms, all no vis poro. A few pcs silty shale, gry.

CFS @ 4750' 30 min: Lms, tan-lt gry, micro-vfn xtln, med res, mst non-allchmcl, no inclns, some w/sprs fr-med sub ang qtz grains imbedded. All no vis poro.

CFS @ 4750' 60 min: Lms, tan-lt gry, micro-vfn xtln, med res, mst non-allchmcl, no inclns, a few w/sprs med qtz grains imbedded. All no vis poro.



4550'-60': Shale, gry, red, maroon, trc grn. A couple pcs SS, gry, shale, fn grained, sft, no pr poro, NS. A few pcs pyrite.

4560'-70': Lms, crm-tan, micro-xtln, med res, mstly non-allchmcl, vpr-no vis poro. 1 pc SS gry, fn grained, sli shaley matrix, many grn glauconite grains incld, pr-fr intr-gran poro, NS. Some shale, gry, maroon, etc.

4570'-80': Lms, tan-crm, mst crypto-micro xtln, some vfn xtln, all med res, vfew-no allchms, vpr-no vis poro. Trc foss chrt, off-wht, sli weathrd. Much shale, gry-drk gry & grn.

4580'-90': Vari-colored shale, gry, grn, red earthy, maroon, yell, turq. A few pcs yellow & grn, banded conglmrct chrt. A couple pcs silicified lms, brwn, abndtly ooltc. Much lms, crm-tan, as abv. All no vis poro.

4590'-4600': SS, off-wht, fn grained, sub-rnd qtz, well srted, med res, vsli calc matrix, fr intr-gran poro, NS. A few pcs SS, sli pyrct.

4600'-10': No sample

4610'-20': SS, gry, fn-med grained qtz, rnd to sub-rnd, mod well srted, med-hrd res, some shaley matrix, pr-fr intr-gran poro, NS. Much shale, gry, blk carb, trc grn, maroon, etc. Some pyritized shale and pyritized SS.

4627'-40': Vari-colored shale, gry, grn, red, maroon, yell, etc. Some SS, gry, med-hrd res, med grained sub-rnd to sub-ang qtz, mod srted, pr-fr intr-gran poro, some sli pyritized to sli shaley, some w/poss dead blk asphltc stn (prob shale laminations), no cut. NS. Also some SS, off-wht fn grained, well srted, fr intr-gran poro, NS.

4640'-50': Varicolored shale. Some SS, off-wht to lt gry, vfn-med grained sub-rnd to rnd qtz, sft-med res, sli calc matrix, a few sli glauc, pr-fr intr-gran poro mst pcs, several pcs med rnd qtz w/gd intr-gran poro, clin matrix, NS. A few pcs grn sndy shale.

4650'-60': SS, lt grn, gluac clay matrix, vfn grained w/scat med sub ang qtz grains imbedded, sft res, vpr-no vis intr-gran poro, NS. A few pcs sndy lms to lmy SS, tan, med res, pr poro, NS. Mstly shale, gry to drk gry, etc.

4660'-70': Sndy lms, crm to tan, micro-xtln, med res, w/abndt vfn to med qtz grains imbedded, some chlky, vpr-no vis poro, NS

4670'-80': Lms, crm, micro-xtln, med res, mst non-allchmcl. Some sndy lms, as abv. All vpr-no vis poro.

4680'-90': No sample

4690'-4700': Lms, crm, micro-xtln, med res, mst non-allchmcl, no vis poro.

4700'-10': Lms, crm, micro-xtln, med res, as abv. Much sndy lms, off-wht to crm, some chlky, abndt fn-med qtz grains imbedded. All vpr-no vis poro.

4710'-20': Lms, crm-tan, micro-vfn xtln, med res, some sndy, as abv, trc ooltc lms, some vfew-no allchms, or inclns, all vpr-no vis poro. Abndt chrt, off-wht, smokey, bone, peach, clr/trnlsnct, trc pnk, mst shrp & frsh.

4720'-30': Lms, tan, crypto-xtln, med-hrd res, non-allchmcl, no vis poro.

4730'-40': Lms, tan to lt gry, crypto-xtln, med res, non-allchmcl, no vis poro.

4740'-50': Lms, tan-lt gry, crypto-micro xtln, some vfn xtln, med-hrd res, mst non-allchmcl, a few sli sndy to trc ooltc. All vpr-no vis poro.

0 ROP (min/ft) CFS @ 4750' RTD 4750' (-1704)

					
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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

December 27, 2022

Cooper Seely
Darrah Oil Company, LLC
125 N MARKET SUITE 1015
WICHITA, KS 67202-1700

Re: ACO-1
API 15-109-21655-00-00
YOUNKIN 3-10
SW/4 Sec.10-14S-34W
Logan County, Kansas

Dear Cooper Seely:

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 8/22/2022 and the ACO-1 was received on December 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