

Confidentiality Requested:

☒ Yes ☐ NoKANSAS 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 & LEASEOPERATOR: License # 35615Name: Darrah Oil Company, LLCAddress 1: 125 N MARKET SUITE 1015

Address 2: _____

City: WICHITA State: KS Zip: 67202 + 1700Contact Person: Cooper SeelyPhone: (316) 219-3390CONTRACTOR: License # 30606Name: Murfin Drilling Co., Inc.Wellsite Geologist: Jarred Leis

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 #: _____4/4/2024 4/13/2024 5/30/2024Spud Date or
Recompletion Date

Date Reached TD

Completion Date or
Recompletion DateAPI No.: 15-109-21672-00-00

Spot Description: _____

SE - NE - NW - SW Sec. 12 Twp. 14 S. R. 34 ☐ East ☒ West2219 Feet from ☐ North / ☒ South Line of Section1294 Feet from ☐ East / ☒ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☐ NE ☐ NW ☐ SE ☒ SWGPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84County: LoganLease Name: YOUNKIN Well #: 1-12

Field Name: _____

Producing Formation: MarmatonElevation: Ground: 2868 Kelly Bushing: 2879Total Vertical Depth: 4541 Plug Back Total Depth: _____Amount of Surface Pipe Set and Cemented at: 225 FeetMultiple Stage Cementing Collar Used? ☒ Yes ☐ NoIf yes, show depth set: 2170 FeetIf Alternate II completion, cement circulated from: 2170feet depth to: 0 w/ 375 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 7000 ppm Fluid volume: 80 bblsDewatering method used: Evaporated

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 RequestedDate: 07/29/2024☐ Confidential Release Date: 07/29/2026☒ Wireline Log Received ☒ Drill Stem Tests Received☒ Geologist Report / Mud Logs Received☐ UIC DistributionALT ☐ I ☒ II ☐ III Approved by: Kelsey Cox Date: 07/29/2024

Operator Name: Darrah Oil Company, LLC Lease Name: YOUNKIN Well #: 1-12
 Sec. 12 Twp. 14 S. R. 34 ☐ East ☒ West County: Logan

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 ☒ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☒ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No Geologist Report / Mud Logs ☒ Yes ☐ No List All E. Logs Run: Attached	☒ Log Formation (Top), Depth and Datum ☐ Sample <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>2285</td> <td>594</td> </tr> <tr> <td>Oread</td> <td>3681</td> <td>-802</td> </tr> <tr> <td>Toronto</td> <td>3748</td> <td>-869</td> </tr> <tr> <td>Stark</td> <td>4041</td> <td>-1162</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	2285	594	Oread	3681	-802	Toronto	3748	-869	Stark	4041	-1162
Name	Top	Datum														
Anhydrite	2285	594														
Oread	3681	-802														
Toronto	3748	-869														
Stark	4041	-1162														

CASING RECORD ☒ New ☐ 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
Surface	12.25	8.625	23	225	h-325	175	-
Production	7.875	5.5	15.5	4538	h-ld	200	-

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate	-			
☐ Protect Casing				
☐ Plug Back TD				
☐ 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: <u>6/28/2024</u>	Producing Method: ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top <u>4164</u> Bottom <u>4211</u>
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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>
Attached	Attached	Attached	Attached	Attached	Attached
TUBING RECORD: Size: Set At: Packer At:					

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	YOUNKIN 1-12
Doc ID	1788522

All Electric Logs Run

dual induction
micro
porosity
sonic

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	YOUNKIN 1-12
Doc ID	1788522

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
2	4164	4166			
2	4174	4176			
2	4209	4211			
4	4473	4477		4310	
2	4249	4253			
2	4179	4184			

Form	ACO1 - Well Completion
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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	225	h-325	175	-
Production	7.875	5.5	15.5	4538	h-ld	200	-



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: 4/4/2024
Invoice #: 0375493
Lease Name: Younkin
Well #: 1-12 (New)
County: Logan, Ks
Job Number: WP5286
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	175.000	22.500	3,937.50
Light Eq Mileage	30.000	2.000	60.00
Heavy Eq Mileage	60.000	4.000	240.00
Ton Mileage	248.000	1.500	372.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Data Acquisition	1.000	250.000	250.00
Cement Blending & Mixing	175.000	1.400	245.00
Service Supervisor	1.000	275.000	275.00

Total 6,379.50

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.

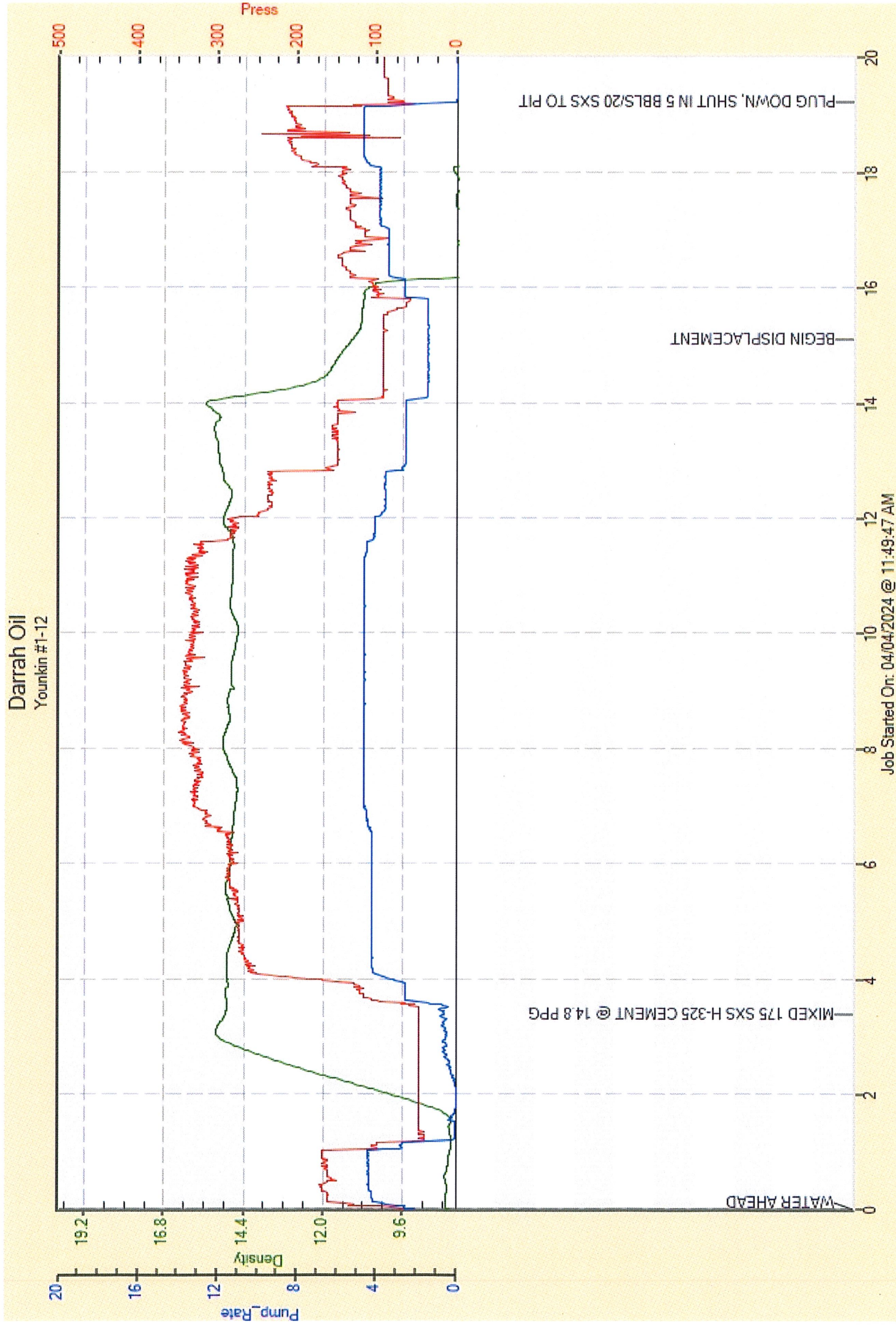
WE APPRECIATE YOUR BUSINESS!

[illegible]

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **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.

ftv: 13-2021/01/19
mply: 441-2024/02/21

[illegible]





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: 4/13/2024
Invoice #: 0375686
Lease Name: Younkin
Well #: 1-12 (New)
County: Logan, Ks
Job Number: WP5316
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-LD Cement Blend	200.000	50.000	10,000.00
H-Plug	50.000	16.000	800.00
5 1/2" Turbolizers	5.000	125.000	625.00
Cement baskets 5 1/2"	2.000	300.000	600.00
5 1/2" Stop Ring	2.000	30.000	60.00
5 1/2" Port Collar	1.000	3,500.000	3,500.00
5 1/2" Floatshoe-Flapper AFU	1.000	375.000	375.00
5 1/2" LD Plug & Baffle	1.000	350.000	350.00
Mud flush	500.000	1.000	500.00
KCL-CS701	5.000	30.000	150.00
Light Eq Mileage	30.000	2.000	60.00
Heavy Eq Mileage	60.000	4.000	240.00
Ton Mileage	345.000	1.500	517.50
Depth Charge 4001'-5000'	1.000	2,500.000	2,500.00
Cement Data Acquisition	1.000	250.000	250.00
Cement plug container	1.000	250.000	250.00
Cement Blending & Mixing	250.000	1.400	350.00
Service Supervisor	1.000	275.000	275.00

Total 21,402.50

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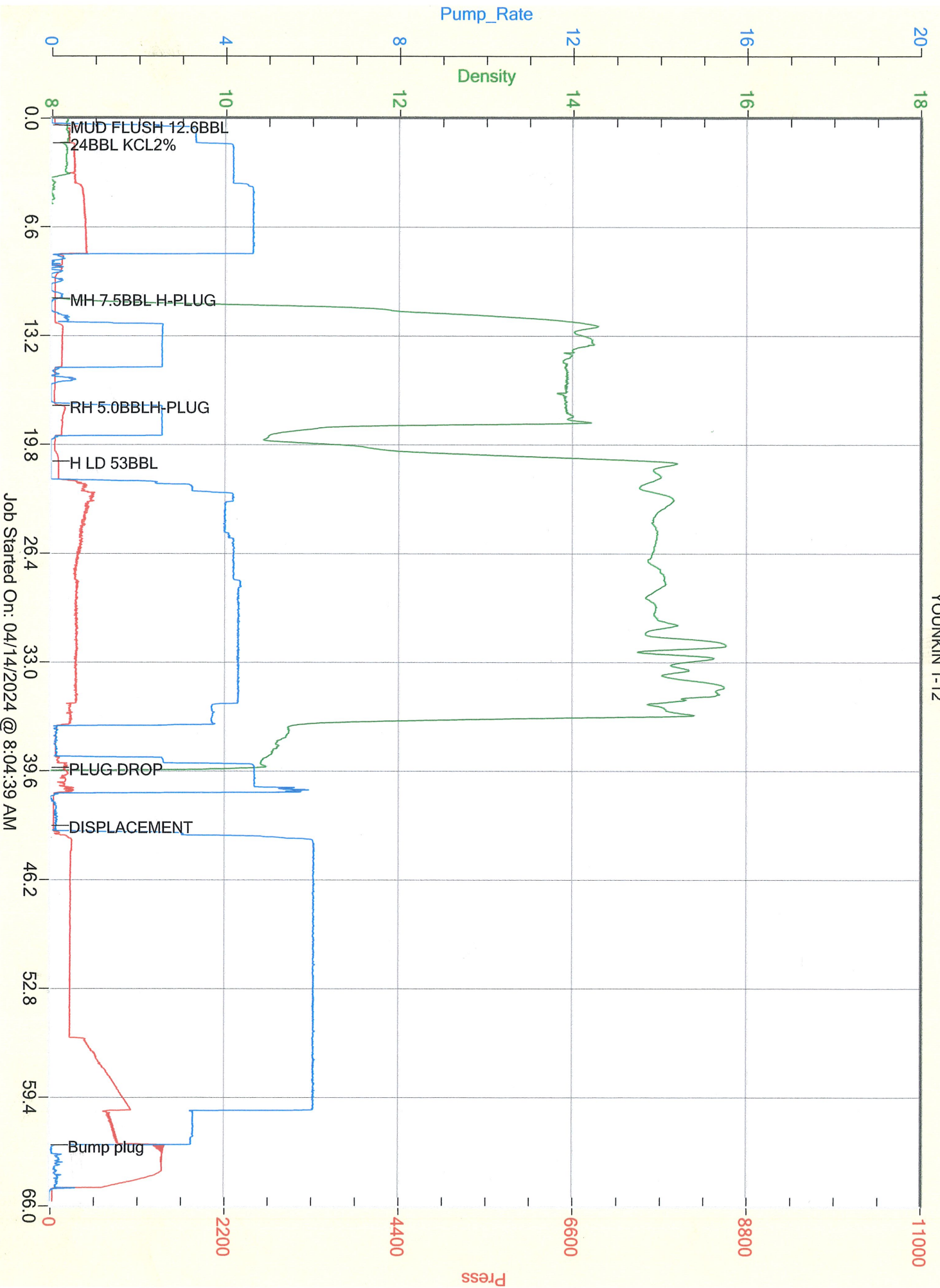
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ftv: 13-2021/01/19
mplv: 440-2023/11/20

DARRAH OIL
YOUNKIN 1-12





HP Oilfield Services, LLC
383 Inverness Parkway, Suite 330
Englewood, CO 80112

Invoice

Date	Invoice #
6/3/2024	49227

Bill To
Darrah Oil Company, LLC 125 N. Market, Suite 1015 Wichita, KS 67202

Lease
YOUNKIN 1-12

Order by / P.O. No.					Terms
					Net 30
Description	Unit	Hrs / Qty	U/M	Rate	Amount
Cement Service					
Field Ticket: 2941-KC					
Description: Please see Attached Field Ticket					
Pump Charge for Cement	103	1	ea	1,500.00	1,500.00
Pumptruck Mileage	103	40	ea	7.15	286.00
Mileage Delivery of Bulk Material	103	653.2	ea	1.75	1,143.10
Liteweight Blend VII	CMT	325	SKS	19.00	6,175.00T
Sand-Medium	CMT	100	lb	0.60	60.00T
Class A Cement	CMT	50	SKS	22.00	1,100.00T
Calcium Chloride	CMT	100	lb	1.00	100.00T
Flo-Seal	CMT	81	lb	3.00	243.00T
Discount - Non-Taxable Items	CMT	1	ea	-292.91	-292.91
Discount - Taxable Items	CMT	1	ea	-767.80	-767.80T
Subtotal prior to Sales Taxes					9,546.39
KS & Logan County Sales Tax Group				8.00%	552.81
Thank you for your business.					Total \$10,099.20

785-953-0222

TICKET NUMBER 2941 K-C
LOCATION Garden City
FOREMAN Walt Dunkel

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-3-24		Xounkin # 6-12	12	-14 ^s	34 ^w	Logan
CUSTOMER Darrah oil						
MAILING ADDRESS						
CITY	STATE	ZIP CODE				

JOB TYPE	Port Collar	HOLE SIZE	7 7/8	HOLE DEPTH		CASING SIZE & WEIGHT	5 1/2 15.5 lb
CASING DEPTH		DRILL PIPE		TUBING	2 3/8	OTHER	P.C. 21.72'
SLURRY WEIGHT	12.5 14.5	SLURRY VOL		WATER gal/sk		CEMENT LEFT in CASING	Plus @ 3180
DISPLACEMENT	8.32	DISPLACEMENT PSI		MIX PSI		RATE	

REMARKS: Safety Meeting, Rig up Equipment, Load casing, Test Plug @ 120' Held spot 2 sks sand, Pull Tuling to the Port Collar, open Tool, took note: could not open Port Collar. Perf Casing @ 2179.5', set retainer @ 2140', run Tuling to retainer, Pump down Tuling, 3 1/2 BPM @ 900 # mixed 325 sks 6940 por, 8% cel, 1/4" FloSeal, Tail in @ 150 sks Class A, 2800 Clear Pump & Lines, Displace 7 1/2 BBL H₂O @ 900 #, string out O/E Retainer Pull 1 Jt Tuling, reverse out Clogu.

Comment Did Circ

Thank You

Walt + Eric

[illegible]

AUTHORIZATION	TITLE	DATE
<i>[Signature]</i>		

I acknowledge that the payments terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.08 @ 01:07:00

End Date: 2024.04.08 @ 08:42:45

Job Ticket #: 71781 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:05:14



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71781

DST#: 1

ATTN: Jarred Leis

Test Start: 2024.04.08 @ 01:07:00

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:32:15

Time Test Ended: 08:42:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3935.00 ft (KB) To 4025.00 ft (KB) (TVD)

Reference Elevations: 2879.00 ft (KB)

Total Depth: 4025.00 ft (KB) (TVD)

2868.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 11.00 ft

Serial #: 8525 Inside

Press@RunDepth: 202.13 psig @ 3936.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.04.08

End Date:

2024.04.08

Last Calib.: 2024.04.08

Start Time: 01:07:05

End Time:

08:42:44

Time On Btm: 2024.04.08 @ 03:30:45

Time Off Btm: 2024.04.08 @ 06:18:30

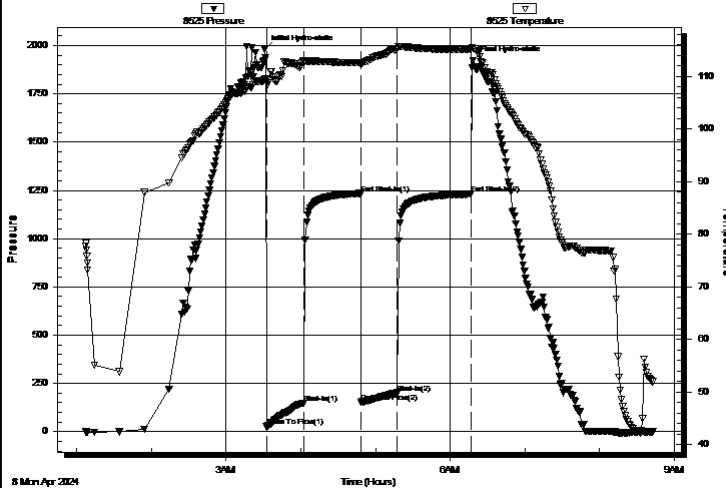
TEST COMMENT: IF-30- Built to 11.57"

SI1-45- No return

FF-30- Built to 9.08"

SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1978.65	109.31	Initial Hydro-static
2	25.72	108.79	Open To Flow (1)
32	148.82	112.77	Shut-In(1)
78	1234.50	112.64	End Shut-In(1)
78	151.88	112.25	Open To Flow (2)
107	202.13	115.30	Shut-In(2)
166	1230.93	115.24	End Shut-In(2)
168	1923.12	115.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	WCM 15% water 85% mud	0.59
246.00	SGOCM 5% gas 5% oil 90% mud	2.36
30.00	GM (W/OIL SPOTS) 15% gas 85% mud	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71781

DST#: 1

ATTN: Jarred Leis

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Hole Diameter: 7.88 inches Hole Condition:

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2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8675** Outside

Press@RunDepth: psig @ 3936.00 ft (KB)

Start Date: 2024.04.08

End Date:

2024.04.08

Start Time: 01:07:05

End Time:

08:42:44

Capacity: 8000.00 psig

Last Calib.:

2024.04.08

Time On Btm:

Time Off Btm:

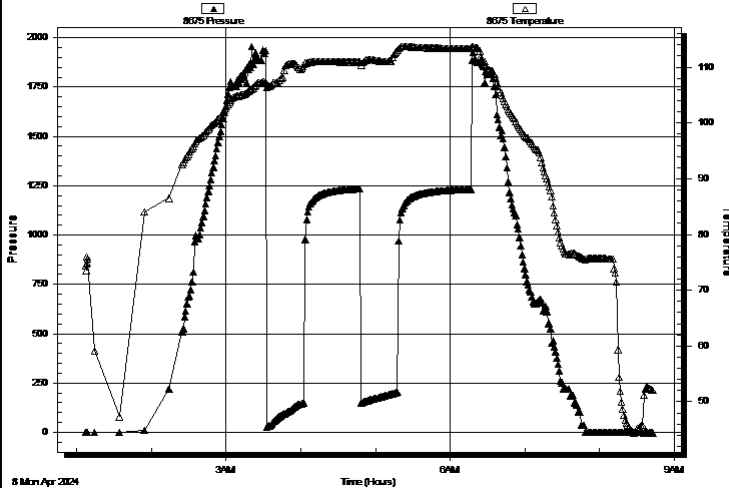
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Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71781

DST#: 1

ATTN: Jarred Leis

Test Start: 2024.04.08 @ 01:07:00

Tool Information

Drill Pipe:	Length:	3678.00 ft	Diameter:	3.80 inches	Volume:	51.59 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	62000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		13.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		3935.00 ft					Final	52000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		90.00 ft						
Tool Length:		120.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------	------------	----------	------------	----------------

Shut In Tool	5.00		3910.00	
Hydraulic tool	5.00		3915.00	
Jars	5.00		3920.00	
EM Sub	3.00		3923.00	
Safety Joint	3.00		3926.00	
Packer	5.00		3931.00	30.00 Bottom Of Top Packer
Packer	4.00		3935.00	
Stubb	1.00		3936.00	
Recorder	0.00	8525 Inside	3936.00	
Recorder	0.00	8675 Outside	3936.00	
perforations	21.00		3957.00	
Change Over Sub	1.00		3958.00	
Drill Pipe	63.00		4021.00	
Change Over Sub	1.00		4022.00	
Bullnose	3.00		4025.00	90.00 Bottom Packers & Anchor

Total Tool Length: 120.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71781

DST#: 1

ATTN: Jarred Leis

Test Start: 2024.04.08 @ 01:07:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 59.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 40000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WCM 15% water 85% mud	0.590
246.00	SGOCM 5% gas 5% oil 90% mud	2.358
30.00	GM (W/OIL SPOTS) 15% gas 85% mud	0.421

Total Length: 396.00 ft

Total Volume: 3.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM

Serial #: 8525

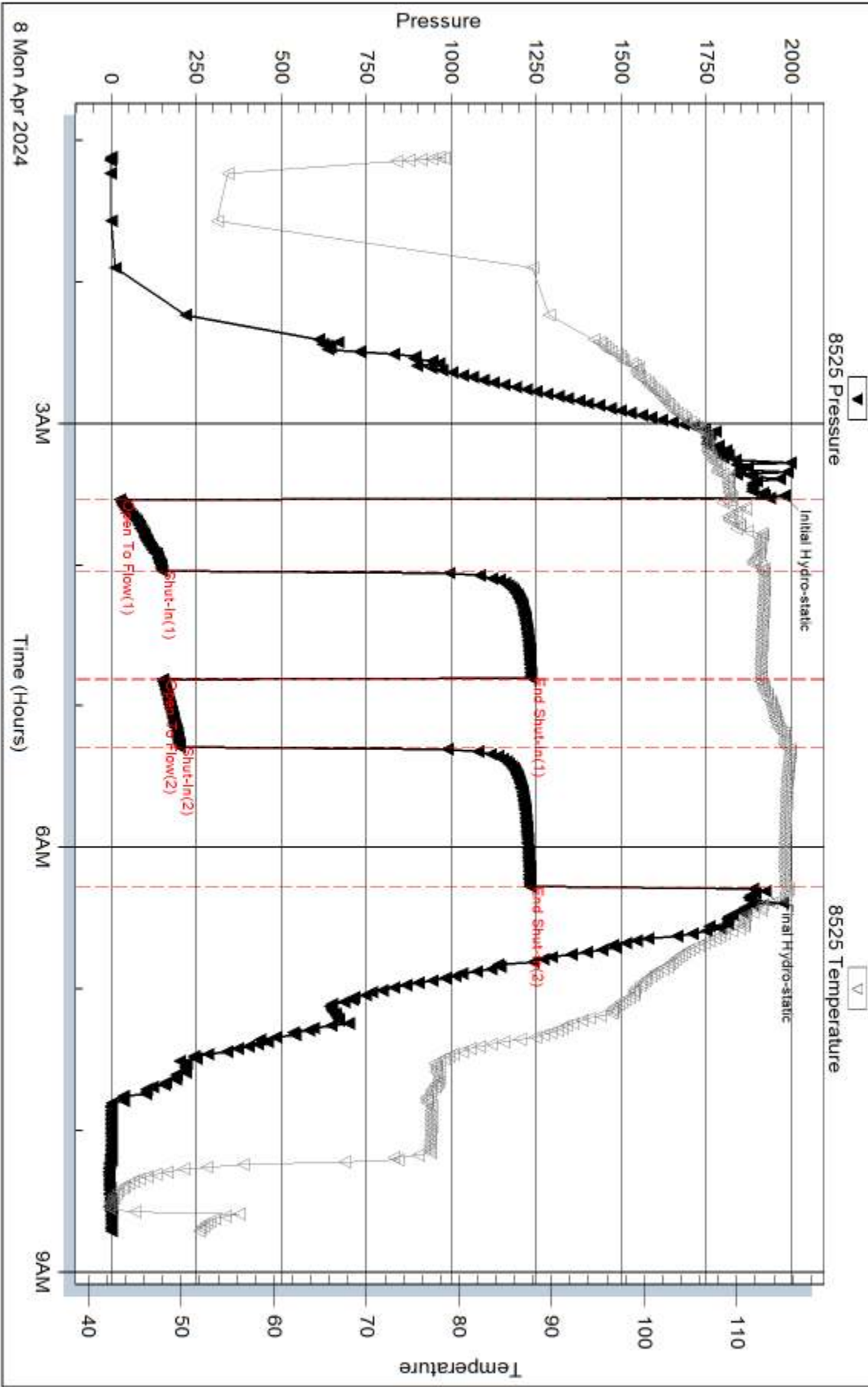
Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 1

Pressure vs. Time

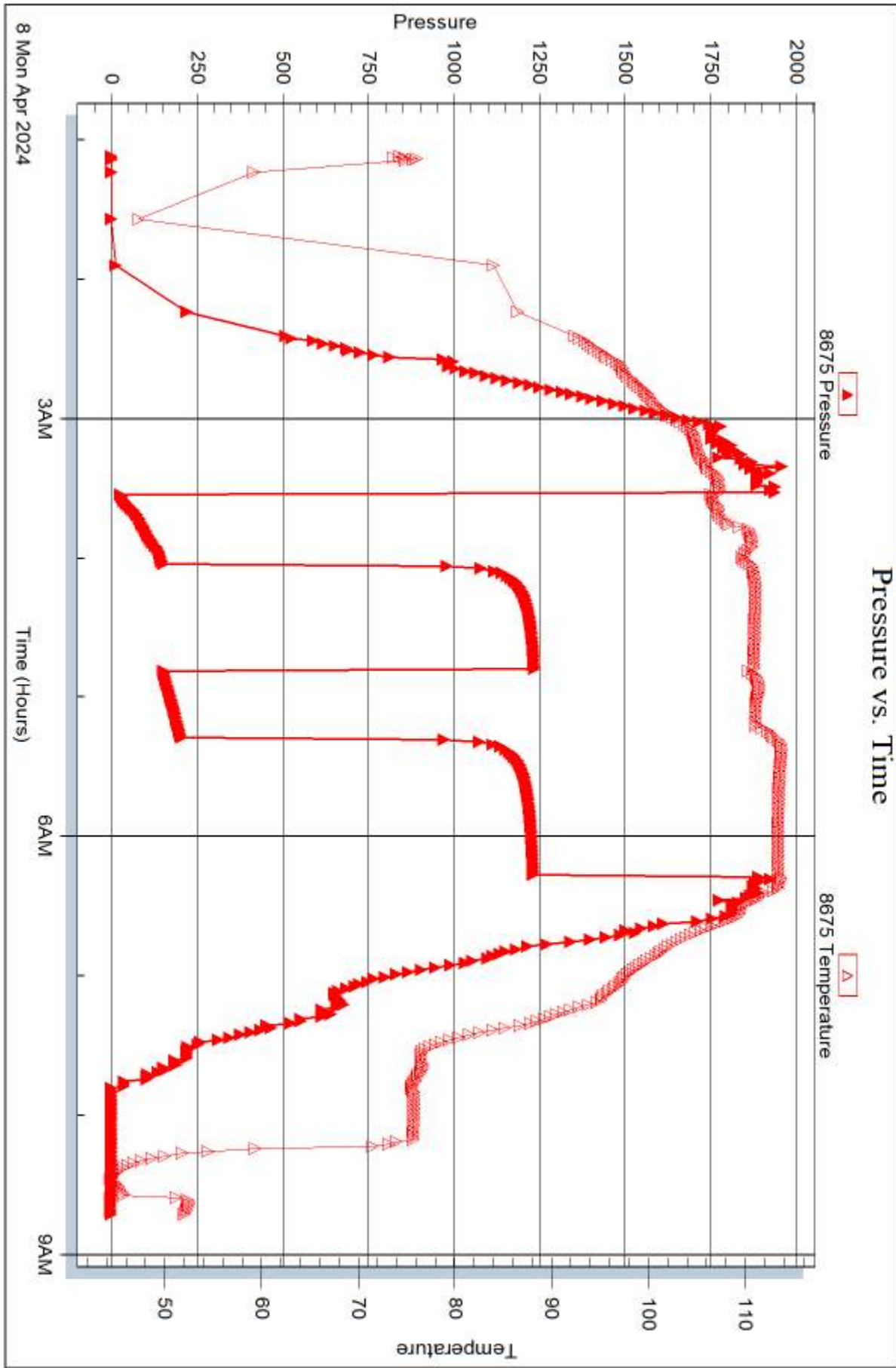


Serial #: 8675

Outside Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.09 @ 06:22:00

End Date: 2024.04.09 @ 13:01:45

Job Ticket #: 71782 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:04:47



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71782

DST#: 2

ATTN: Jarred Leis

Test Start: 2024.04.09 @ 06:22:00

GENERAL INFORMATION:

Formation: **Marmaton-Altamont C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:30

Time Test Ended: 13:01:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4116.00 ft (KB) To 4232.00 ft (KB) (TVD)

Total Depth: 4232.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8675 Outside

Press@RunDepth: 106.37 psig @ 4117.00 ft (KB)

Start Date: 2024.04.09

End Date:

2024.04.09

Start Time: 06:22:05

End Time:

13:01:44

Capacity: 8000.00 psig

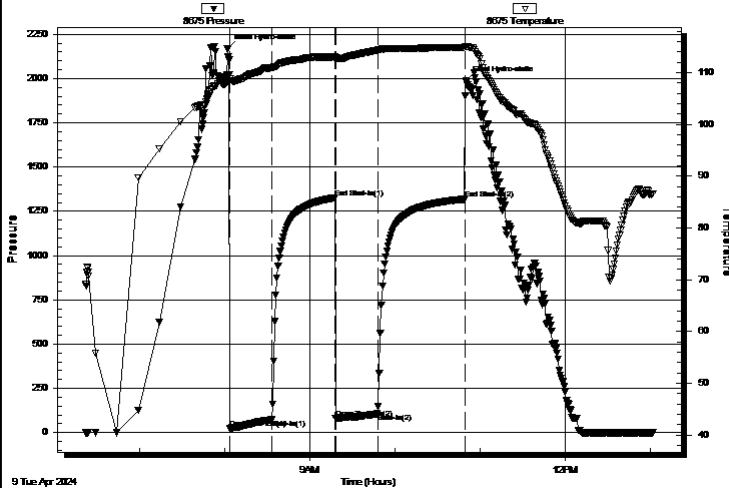
Last Calib.: 2024.04.09

Time On Btm: 2024.04.09 @ 08:02:00

Time Off Btm: 2024.04.09 @ 10:50:15

TEST COMMENT: IF-30- Built to 3.46"
SI1-45- No return
FF-30- Built to 2.25"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2167.53	109.51	Initial Hydro-static
2	23.43	108.41	Open To Flow (1)
32	73.06	110.97	Shut-In(1)
76	1325.89	113.04	End Shut-In(1)
77	80.18	112.59	Open To Flow (2)
106	106.37	114.32	Shut-In(2)
168	1318.21	114.81	End Shut-In(2)
169	1988.03	115.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOWCM 5%gas 12%oil 3% w ater 80%	n0.59
60.00	GOCM 5% gas 30% oil 65% mud	0.30
5.00	GO 5% gas 95% oil	0.02

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



Test Start: 2024.04.09 @ 06:22:00

KB to GR/CF: 11.00 ft

TEST COMMENT: IF-30- Built to 3.46"
SI1-45- No return
FF-30- Built to 2.25"
SI2-60- No return



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71782

DST#: 2

ATTN: Jarred Leis

Test Start: 2024.04.09 @ 06:22:00

Tool Information

Drill Pipe:	Length:	3867.00 ft	Diameter:	3.80 inches	Volume:	54.24 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		21.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4116.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		115.00 ft						
Tool Length:		145.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------	------------	----------	------------	----------------

Shut In Tool	5.00		4091.00	
Hydraulic tool	5.00		4096.00	
Jars	5.00		4101.00	
EM Sub	3.00		4104.00	
Safety Joint	3.00		4107.00	
Packer	5.00		4112.00	30.00 Bottom Of Top Packer
Packer	4.00		4116.00	
Stubb	1.00		4117.00	
Recorder	0.00	8525 Inside	4117.00	
Recorder	0.00	8675 Outside	4117.00	
perforations	15.00		4132.00	
Change Over Sub	1.00		4133.00	
Drill Pipe	94.00		4227.00	
Change Over Sub	1.00		4228.00	
Bullnose	3.00		4231.00	115.00 Bottom Packers & Anchor

Total Tool Length: 145.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71782

DST#: 2

ATTN: Jarred Leis

Test Start: 2024.04.09 @ 06:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 61.00 sec/qt

Water Loss: 7.60 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GOWCM 5%gas 12%oil 3% water 80% mud	0.590
60.00	GOCM 5% gas 30% oil 65% mud	0.295
5.00	GO 5% gas 95% oil	0.025

Total Length: 185.00 ft

Total Volume: 0.910 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

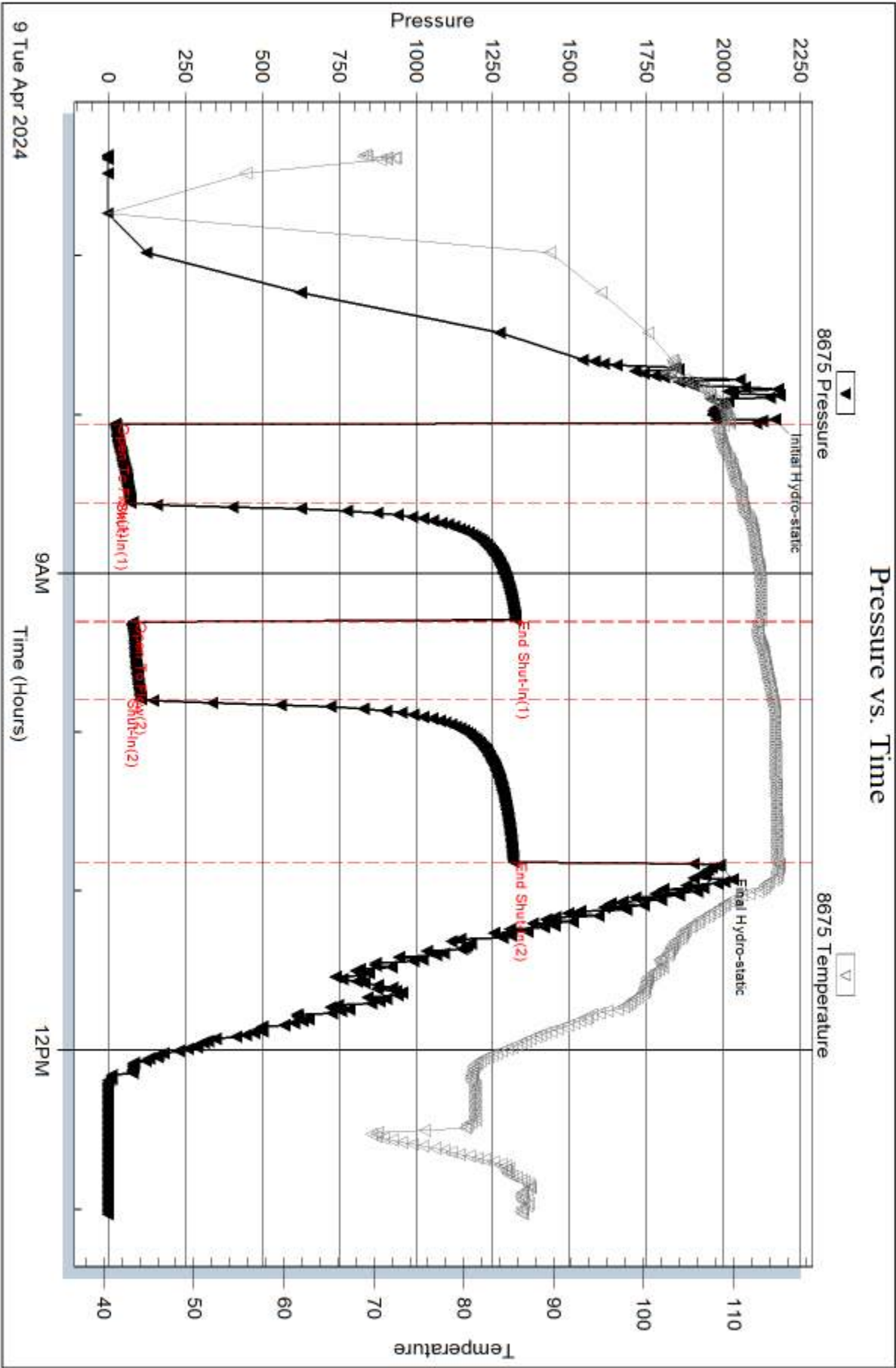
Recovery Comments: LCM 3#

Serial #: 8675

Outside Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 2



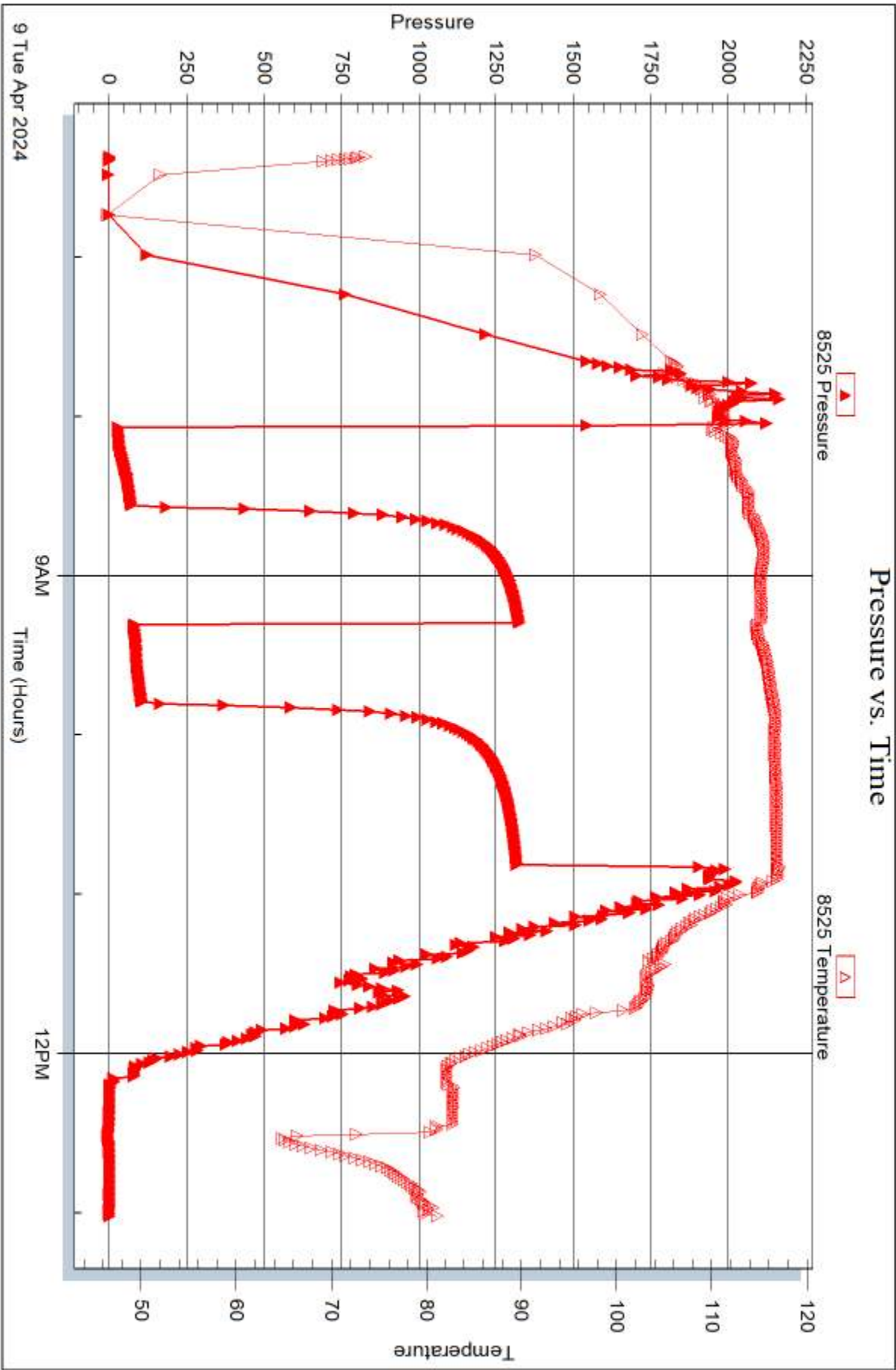
Serial #: 8525

Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.10 @ 04:26:00

End Date: 2024.04.10 @ 11:21:30

Job Ticket #: 71783 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:04:18

Darrah Oil Co LLC

12-14S-34W Logan,KS

Younkin #1-12

DST # 3

Pawnee-Ft.Scott

2024.04.10



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71783

DST#: 3

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 04:26:00

GENERAL INFORMATION:

Formation: **Pawnee-Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:36:45

Time Test Ended: 11:21:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4232.00 ft (KB) To 4322.00 ft (KB) (TVD)

Reference Elevations: 2879.00 ft (KB)

Total Depth: 4322.00 ft (KB) (TVD)

2868.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8675 Outside

Press@RunDepth: 51.65 psig @ 4233.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2024.04.10

End Date:

2024.04.10

Last Calib.: 1899.12.30

Start Time: 04:26:05

End Time:

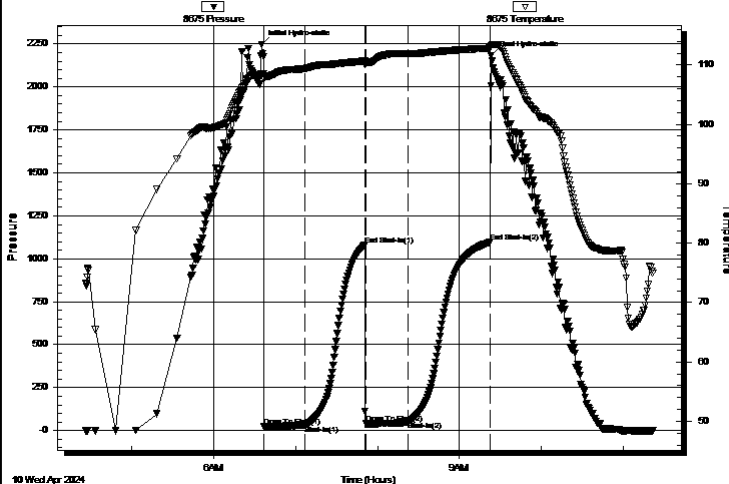
11:21:29

Time On Btm: 2024.04.10 @ 06:35:00

Time Off Btm: 2024.04.10 @ 09:23:15

TEST COMMENT: IF-30- Built to 4.87"
SI1-45- No return
FF-30- Built to 6.26"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.80	108.46	Initial Hydro-static
2	22.26	107.64	Open To Flow (1)
32	31.80	109.40	Shut-In(1)
76	1080.68	110.68	End Shut-In(1)
77	39.60	110.34	Open To Flow (2)
108	51.65	111.92	Shut-In(2)
168	1098.42	112.85	End Shut-In(2)
169	2180.71	113.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GMCO 10% gas 55% oil 35% 35% mud	0.34
1.00	oil 100%	0.00
0.00	170' GAS	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71783

DST#: 3

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 04:26:00

GENERAL INFORMATION:

Formation: **Pawnee-Ft.Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:36:45

Time Test Ended: 11:21:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4232.00 ft (KB) To 4322.00 ft (KB) (TVD)

Total Depth: 4322.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8525 Inside

Press@RunDepth: psig @ 4233.00 ft (KB)

Start Date: 2024.04.10

End Date:

2024.04.10

Start Time: 04:26:05

End Time:

11:21:44

Capacity: 8000.00 psig

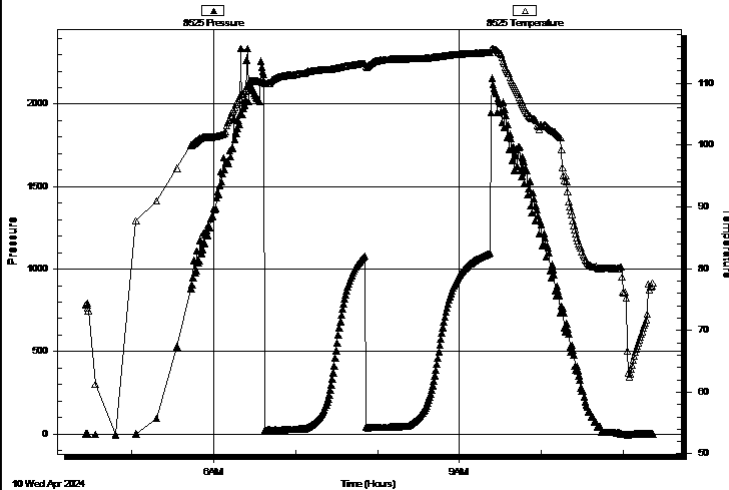
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 4.87"
SI1-45- No return
FF-30- Built to 6.26"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
70.00	GMCO 10% gas 55% oil 35% 35% mud	0.34
1.00	oil 100%	0.00
0.00	170' GAS	0.00

Gas Rates

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

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71783

DST#: 3

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 04:26:00

Tool Information

Drill Pipe:	Length:	3994.00 ft	Diameter:	3.80 inches	Volume:	56.03 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	50000.00 lb
Depth to Top Packer:		4232.00 ft					Final	50000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		90.00 ft						
Tool Length:		120.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4207.00	
Hydraulic tool	5.00			4212.00	
Jars	5.00			4217.00	
EM Sub	3.00			4220.00	
Safety Joint	3.00			4223.00	
Packer	5.00			4228.00	30.00 Bottom Of Top Packer
Packer	4.00			4232.00	
Stubb	1.00			4233.00	
Recorder	0.00	8525	Inside	4233.00	
Recorder	0.00	8675	Outside	4233.00	
perforations	21.00			4254.00	
Change Over Sub	1.00			4255.00	
Drill Pipe	63.00			4318.00	
Change Over Sub	1.00			4319.00	
Bullnose	3.00			4322.00	90.00 Bottom Packers & Anchor

Total Tool Length: 120.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71783

DST#: 3

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 04:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GMCO 10% gas 55% oil 35% 35% mud	0.344
1.00	oil 100%	0.005
0.00	170' GAS	0.000

Total Length: 71.00 ft

Total Volume: 0.349 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3# LCM

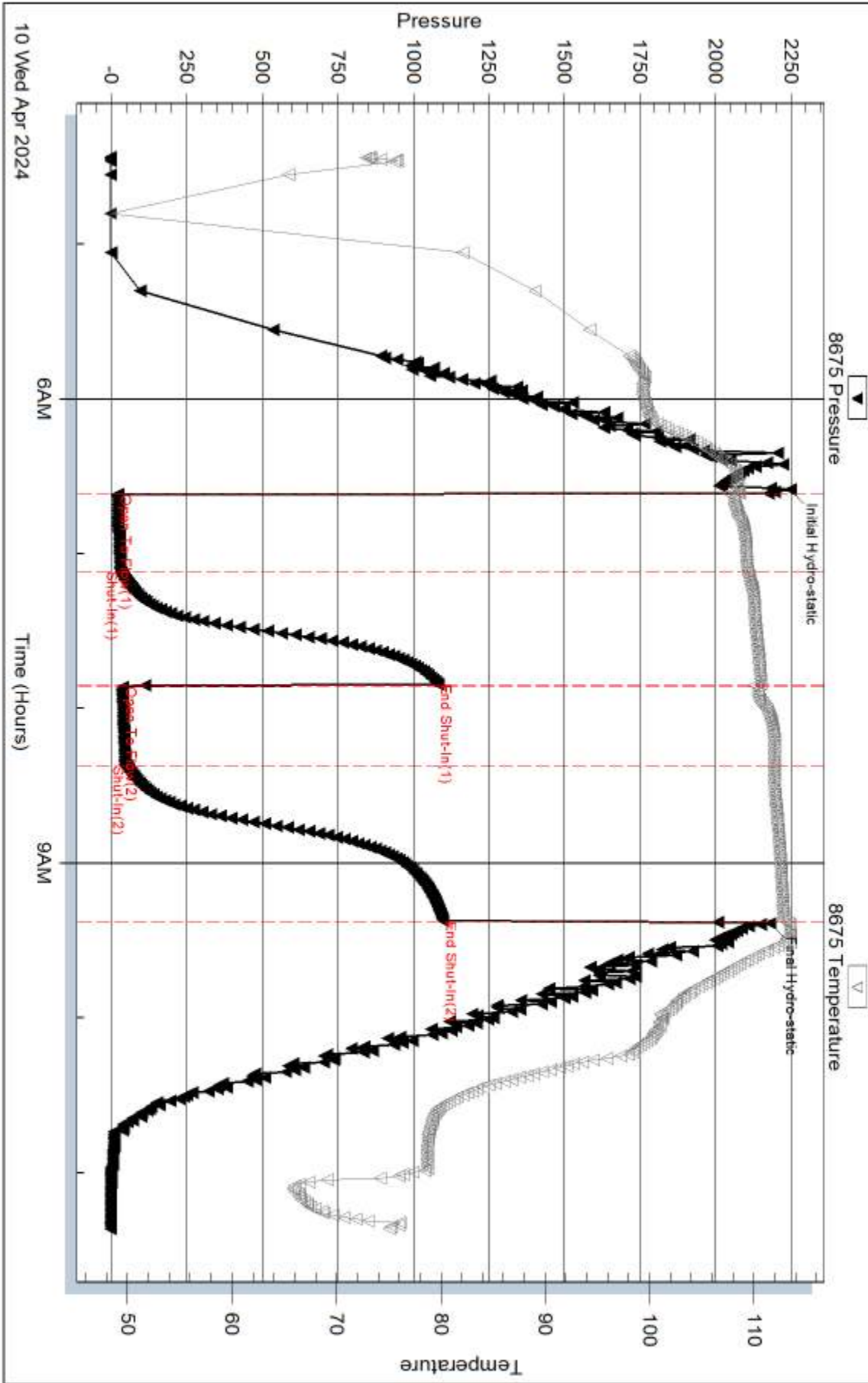
Serial #: 8675

Outside Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 3

Pressure vs. Time



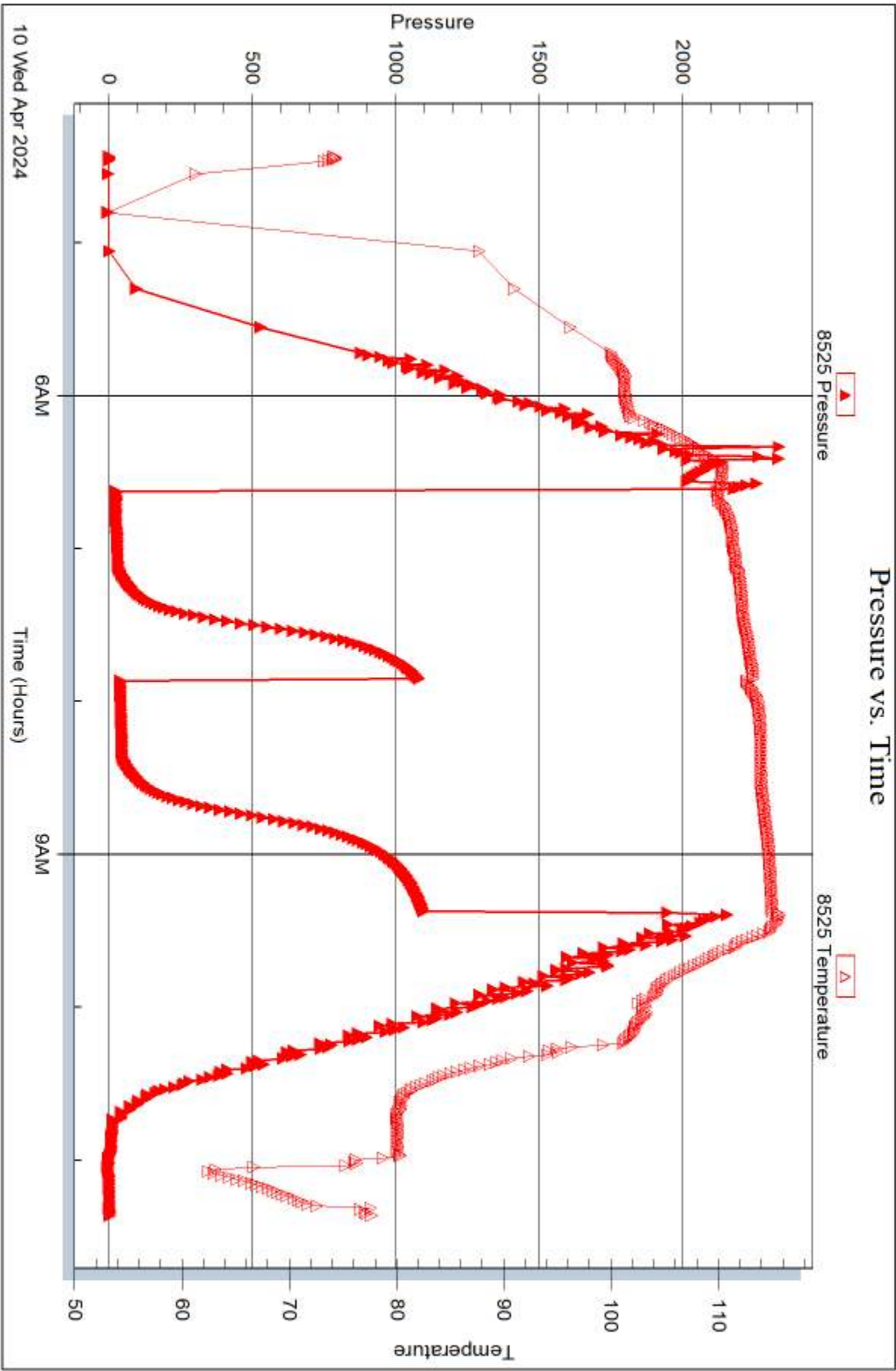
Serial #: 8525

Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.10 @ 22:15:00

End Date: 2024.04.11 @ 04:54:00

Job Ticket #: 71784 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:03:56



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71784

DST#: 4

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 22:15:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:00

Time Test Ended: 04:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **4316.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Total Depth: 4398.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8675** Outside

Press@RunDepth: 43.97 psig @ 4317.00 ft (KB)

Start Date: 2024.04.10

End Date:

2024.04.11

Start Time: 22:15:05

End Time:

04:53:59

Capacity: 8000.00 psig

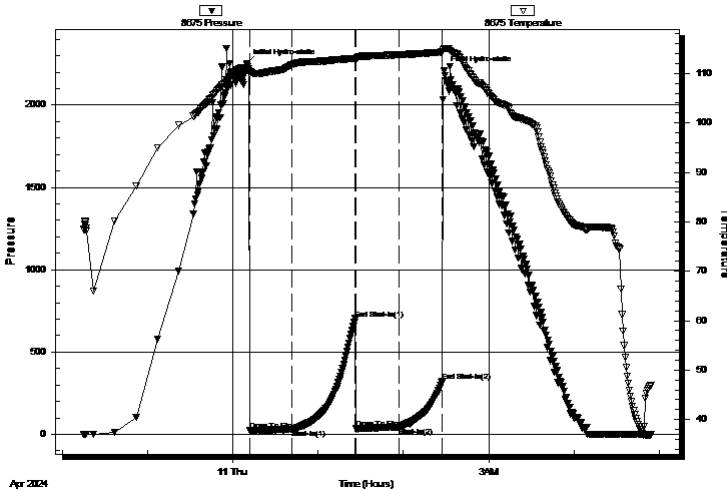
Last Calib.: 2024.04.11

Time On Btm: 2024.04.11 @ 00:10:00

Time Off Btm: 2024.04.11 @ 02:28:30

TEST COMMENT: IF-30- Built to 1.59
SI2-45- No return
FF-30- Built to 1.86
SI2-30- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.29	111.03	Initial Hydro-static
2	23.45	109.84	Open To Flow (1)
32	30.45	111.72	Shut-In(1)
77	702.39	113.06	End Shut-In(1)
77	34.48	112.84	Open To Flow (2)
107	43.97	113.77	Shut-In(2)
138	320.01	114.30	End Shut-In(2)
139	2206.57	114.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GVSOCM 10% gas 2% oil 88% mud	0.30
0.00	60' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71784

DST#: 4

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 22:15:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:12:00

Time Test Ended: 04:54:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **4316.00 ft (KB) To 4398.00 ft (KB) (TVD)**

Total Depth: 4398.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8525** Inside

Press@RunDepth: psig @ 4317.00 ft (KB)

Start Date: 2024.04.10

End Date:

2024.04.11

Start Time: 22:15:05

End Time:

04:53:44

Capacity: 8000.00 psig

Last Calib.:

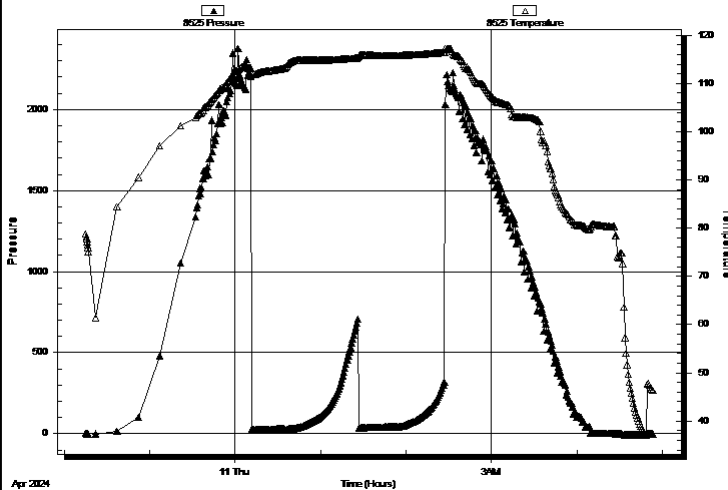
2024.04.11

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 1.59
SI2-45- No return
FF-30- Built to 1.86
SI2-30- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GVSOCM 10% gas 2% oil 88% mud	0.30
0.00	60' GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71784

DST#: 4

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 22:15:00

Tool Information

Drill Pipe:	Length:	4058.00 ft	Diameter:	3.80 inches	Volume:	56.92 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	64000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		12.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		4316.00 ft					Final	56000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		82.00 ft						
Tool Length:		112.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00		4291.00	
Hydraulic tool	5.00		4296.00	
Jars	5.00		4301.00	
EM Sub	3.00		4304.00	
Safety Joint	3.00		4307.00	
Packer	5.00		4312.00	30.00 Bottom Of Top Packer
Packer	4.00		4316.00	
Stubb	1.00		4317.00	
Recorder	0.00	8525 Inside	4317.00	
Recorder	0.00	8675 Outside	4317.00	
perforations	13.00		4330.00	
Change Over Sub	1.00		4331.00	
Drill Pipe	63.00		4394.00	
Change Over Sub	1.00		4395.00	
Bullnose	3.00		4398.00	82.00 Bottom Packers & Anchor

Total Tool Length: 112.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71784

DST#: 4

ATTN: Jarred Leis

Test Start: 2024.04.10 @ 22:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 76.00 sec/qt

Water Loss: 10.59 in³

Resistivity: ohm.m

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GVSOCM 10% gas 2% oil 88% mud	0.295
0.00	60' GIP	0.000

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

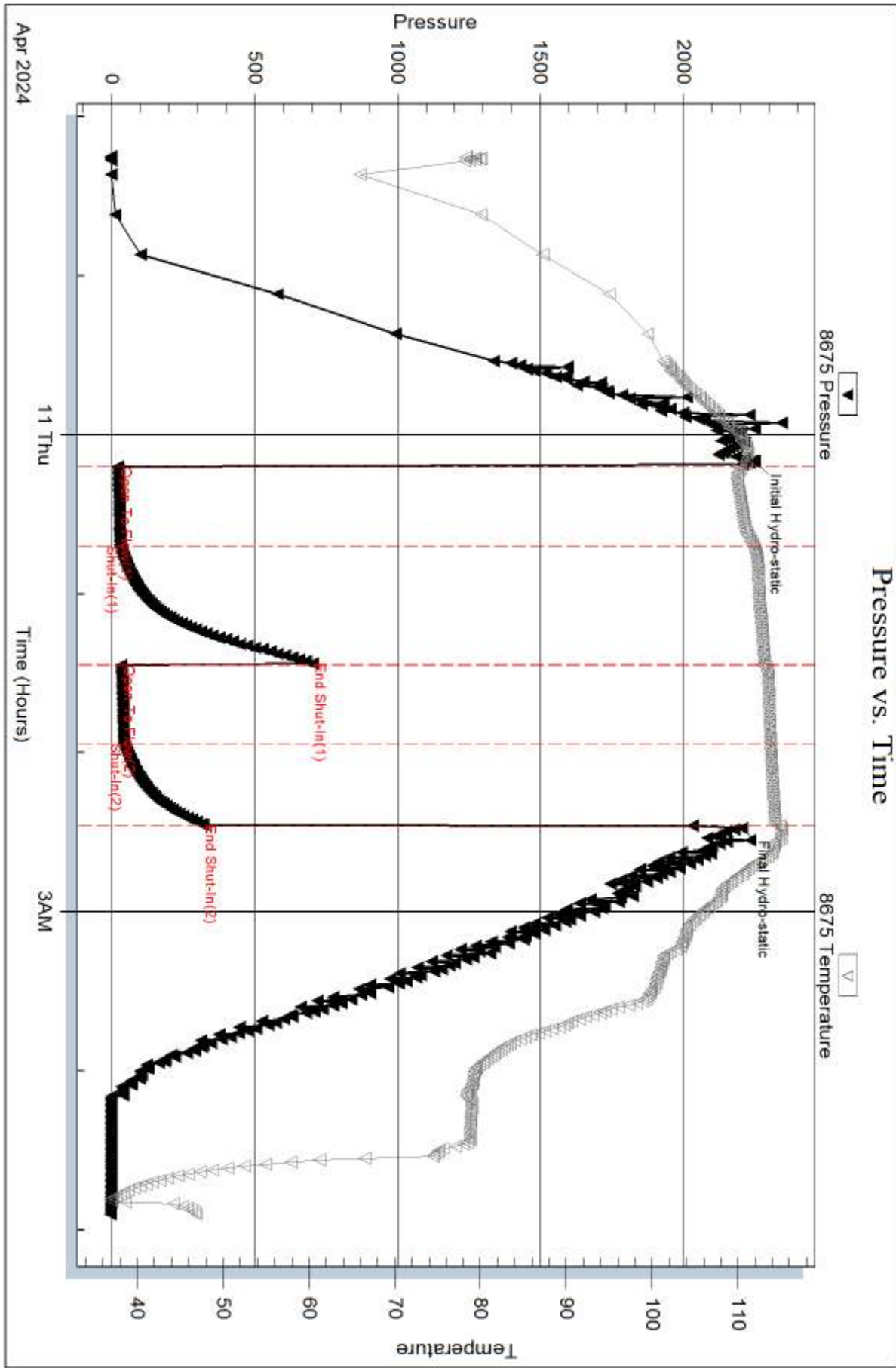
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3# LCM



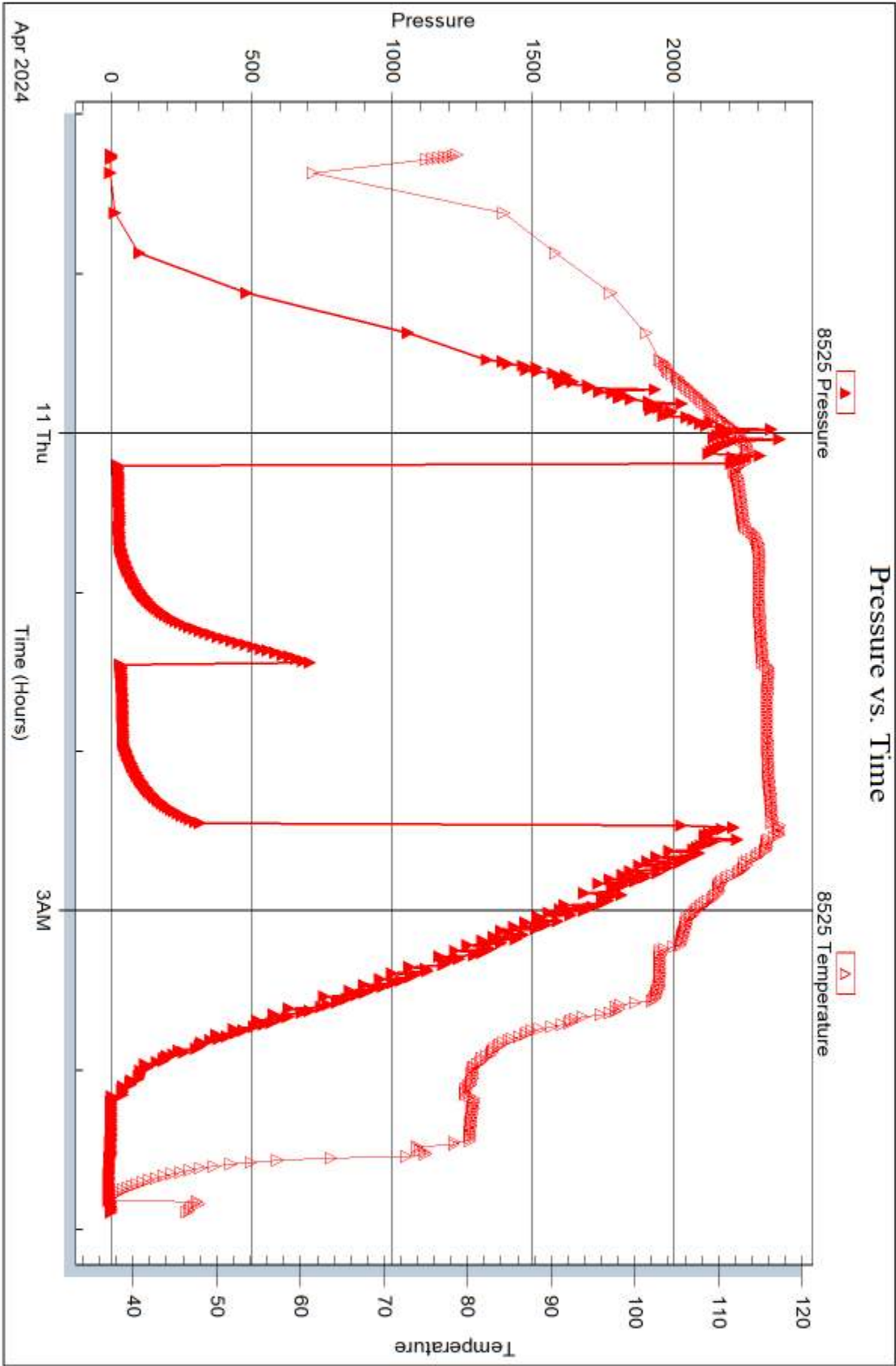
Serial #: 8525

Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.12 @ 05:50:00

End Date: 2024.04.12 @ 12:24:30

Job Ticket #: 71785 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:03:30



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

12-14S-34W Logan, KS

Younkin #1-12

Job Ticket: 71785

DST#: 5

Test Start: 2024.04.12 @ 05:50:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:15

Time Test Ended: 12:24:30

Test Type: Conventional Straddle (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **4010.00 ft (KB) To 4035.00 ft (KB) (TVD)**

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8675** Outside

Press@RunDepth: 133.00 psig @ 4011.00 ft (KB)

Start Date: 2024.04.12

End Date:

2024.04.12

Start Time: 05:50:05

End Time:

12:24:29

Capacity: 8000.00 psig

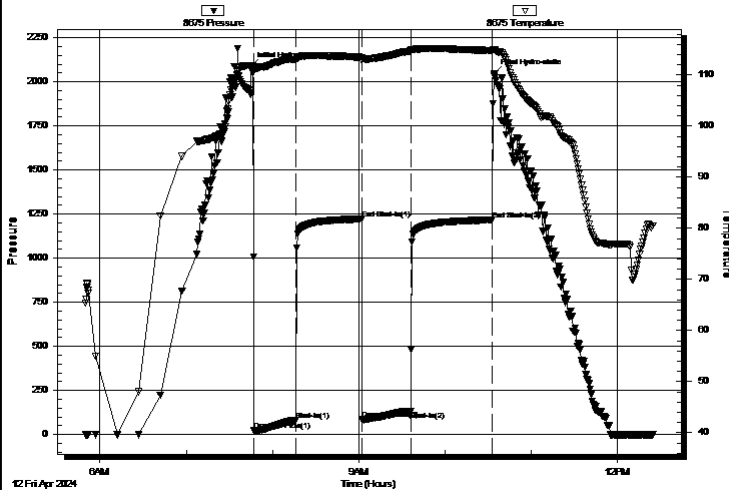
Last Calib.: 2024.04.12

Time On Btm: 2024.04.12 @ 07:45:15

Time Off Btm: 2024.04.12 @ 10:34:30

TEST COMMENT: IF-30- Built to 5.74"
SI1-45- No return
FF-30- Built to 5.21"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.01	111.88	Initial Hydro-static
2	21.62	111.07	Open To Flow (1)
31	80.92	113.01	Shut-In(1)
77	1222.45	113.45	End Shut-In(1)
77	85.86	112.81	Open To Flow (2)
111	133.00	114.68	Shut-In(2)
168	1217.47	114.77	End Shut-In(2)
170	2047.41	114.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GWCM 10% gas 20% water 70% mud	0.49
140.00	GMCW 5% gas 55% water 40% mud	0.69
15.00	VSGWCM 3% gas 2% water 95% mud	(v0.21sp

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71785

DST#: 5

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 05:50:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:15

Time Test Ended: 12:24:30

Test Type: Conventional Straddle (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4010.00 ft (KB) To 4035.00 ft (KB) (TVD)

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8525 Inside

Press@RunDepth: psig @ 4011.00 ft (KB)

Start Date: 2024.04.12

End Date:

2024.04.12

Start Time: 05:50:05

End Time:

12:24:29

Capacity: 8000.00 psig

Last Calib.:

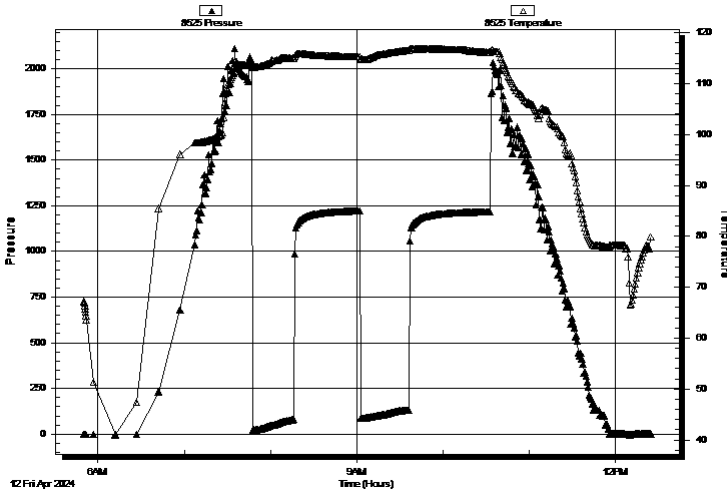
2024.04.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 5.74"
SI1-45- No return
FF-30- Built to 5.21"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
100.00	GWCM 10% gas 20% water 70% mud	0.49
140.00	GMCW 5% gas 55% water 40% mud	0.69
15.00	VSGWCM 3% gas 2% water 95% mud	(v0.21sp

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

12-14S-34W Logan, KS

Younkin #1-12

Job Ticket: 71785

DST#: 5

Test Start: 2024.04.12 @ 05:50:00

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:15

Time Test Ended: 12:24:30

Test Type: Conventional Straddle (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **4010.00 ft (KB) To 4035.00 ft (KB) (TVD)**

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **6651** Below (Straddle)

Press@RunDepth: psig @ 4056.00 ft (KB)

Start Date: 2024.04.12 End Date: 2024.04.12

Start Time: 05:50:05 End Time: 12:23:14

Capacity: 8000.00 psig

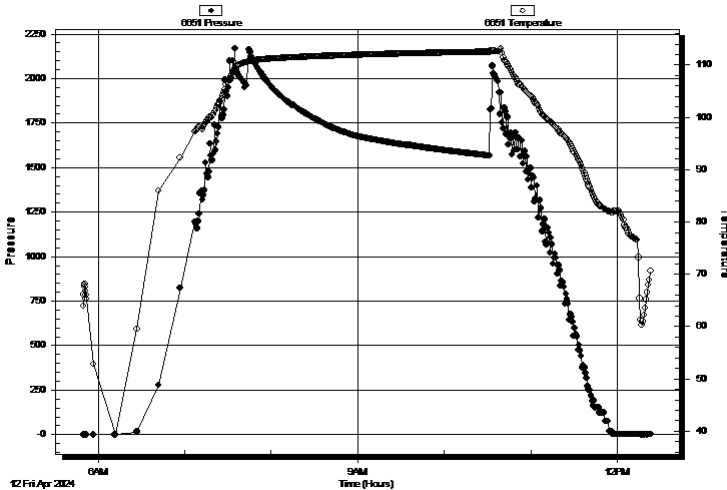
Last Calib.: 2024.04.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 5.74"
SI1-45- No return
FF-30- Built to 5.21"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
100.00	GWCM 10% gas 20% water 70% mud	0.49
140.00	GMCW 5% gas 55% water 40% mud	0.69
15.00	VSGWCM 3% gas 2% water 95% mud (v0.21 sp	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71785

DST#: 5

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 05:50:00

Tool Information

Drill Pipe:	Length:	3774.00 ft	Diameter:	3.80 inches	Volume:	52.94 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	240.00 ft	Diameter:	2.25 inches	Volume:	1.18 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:		29.00 ft					String Weight: Initial	52000.00 lb
Depth to Top Packer:		4010.00 ft					Final	58000.00 lb
Depth to Bottom Packer:		4540.33 ft						
Interval between Packers:		530.33 ft						
Tool Length:		555.33 ft						
Number of Packers:		3	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00		3990.00	
Hydraulic tool	5.00		3995.00	
EM Tool	3.00		3998.00	
Safety Joint	3.00		4001.00	
Packer	5.00		4006.00	25.00 Bottom Of Top Packer
Packer	4.00		4010.00	
Stubb	1.00		4011.00	
Recorder	0.00	8525 Inside	4011.00	
Recorder	0.00	8675 Outside	4011.00	
perforations	20.00		4031.00	
Blank Off Sub	1.00		4032.00	
Packer - Shale	3.00		4035.00	
packer	1.00		4036.00	
Stubb	1.00		4037.00	
Perforations	18.00		4055.00	
Change Over Sub	1.00		4056.00	
Recorder	0.00	6651 Below	4056.00	
Drill Pipe	476.00		4532.00	
Change Over Sub	1.00		4533.00	
perforations	3.33		4536.33	
Bullnose	4.00		4540.33	530.33 Bottom Packers & Anchor

Total Tool Length: 555.33



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71785

DST#: 5

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 05:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity: 23000 ppm

deg API

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	GWCM 10% gas 20% water 70% mud	0.492
140.00	GMCW 5% gas 55% water 40% mud	0.688
15.00	VSGWCM 3% gas 2% water 95% mud (w/oil)	0.210

Total Length: 255.00 ft

Total Volume: 1.390 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2# LCM

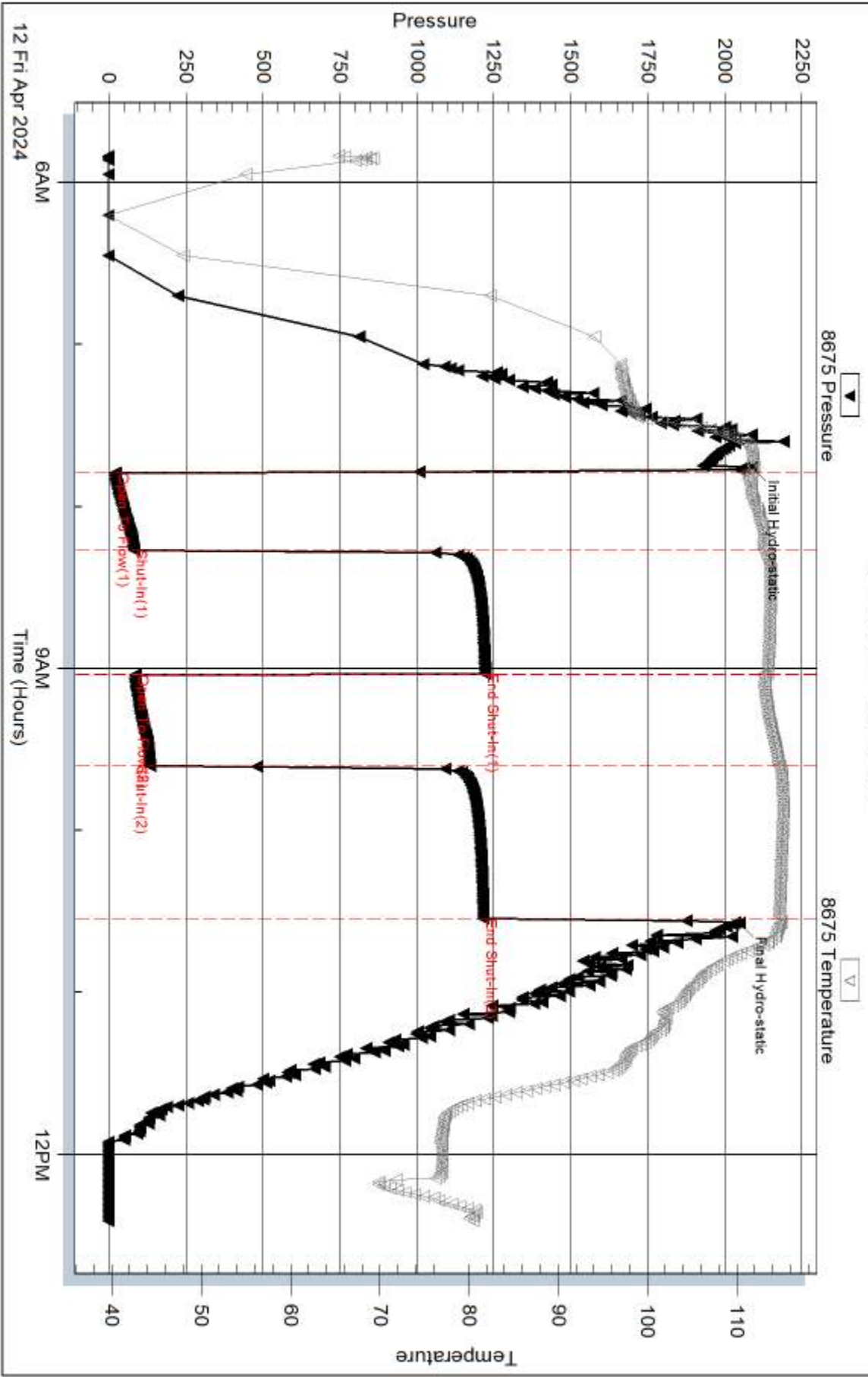
Serial #: 8675

Outside Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 5

Pressure vs. Time



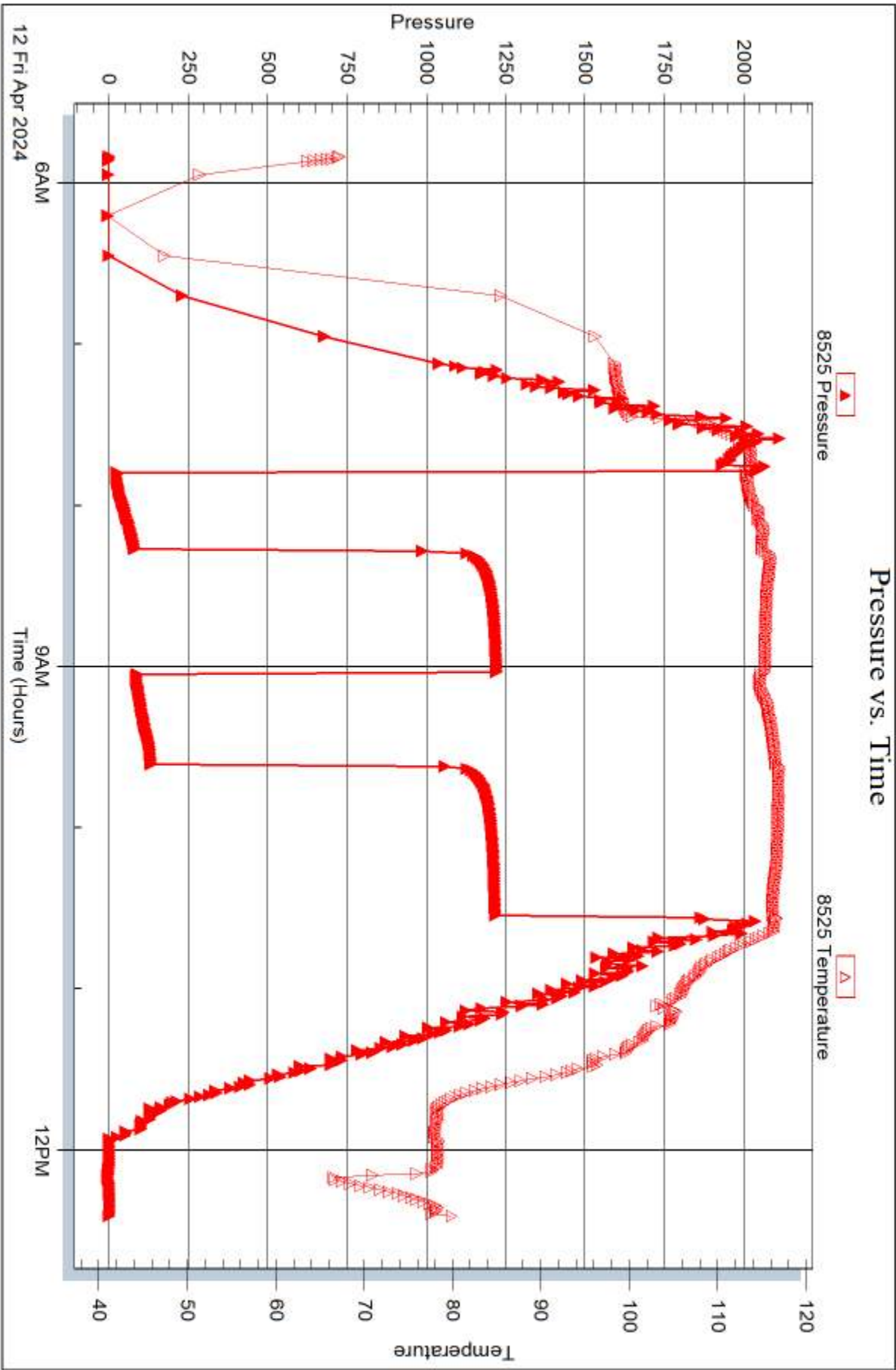
Serial #: 8525

Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 5

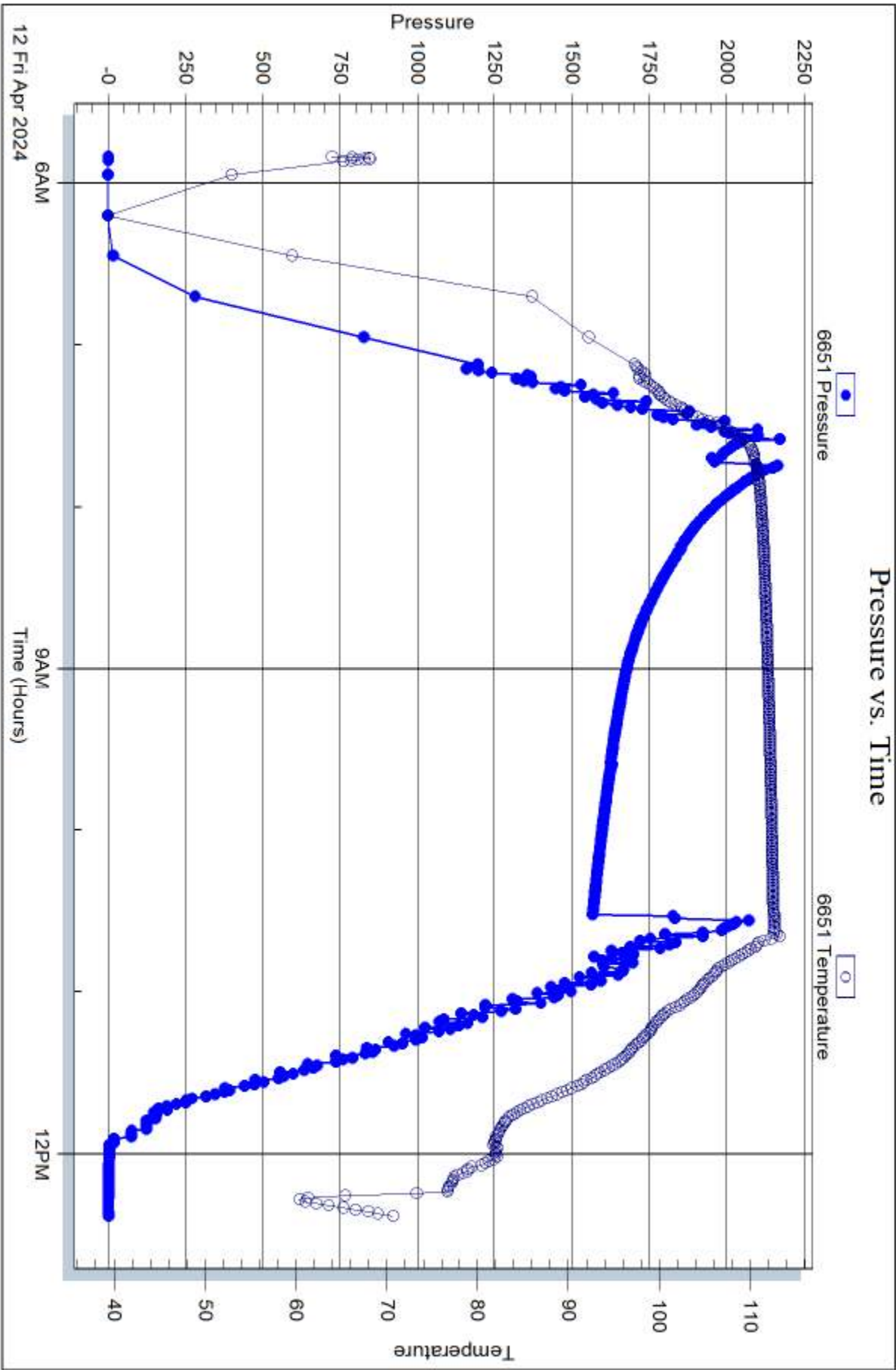


Serial #: 6651

Below (Stratfield) Oil Co LLC

Younkin #1-12

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Darrah Oil Co LLC**

125 N Market Suite 1015
Wichita, KS 67202

ATTN: Jarred Leis

Younkin #1-12

12-14S-34W Logan,KS

Start Date: 2024.04.12 @ 13:05:00

End Date: 2024.04.12 @ 20:03:45

Job Ticket #: 71786 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.04.16 @ 12:02:52



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71786

DST#: 6

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 13:05:00

GENERAL INFORMATION:

Formation: **Morrow-Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:00

Time Test Ended: 20:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: **4407.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: **8675** Outside

Press@RunDepth: 48.98 psig @ 4408.00 ft (KB)

Start Date: 2024.04.12

End Date:

2024.04.12

Start Time: 13:05:05

End Time:

20:03:44

Capacity: 8000.00 psig

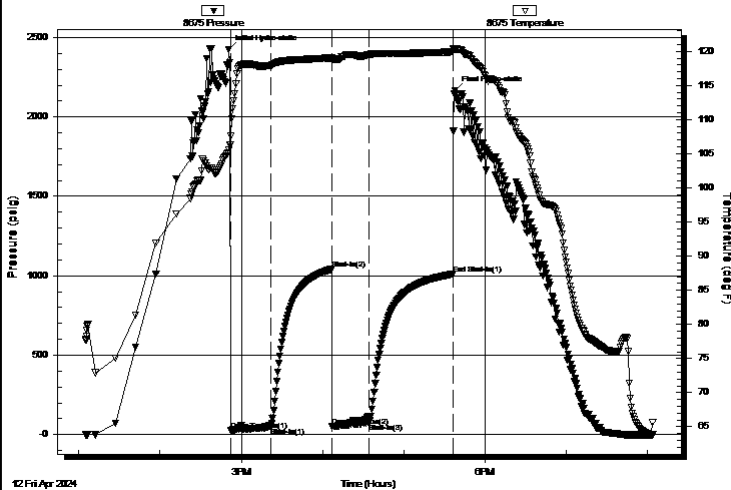
Last Calib.: 2024.04.12

Time On Btm: 2024.04.12 @ 14:50:45

Time Off Btm: 2024.04.12 @ 17:37:30

TEST COMMENT: IF-30- Built to 1.67"
SI1-45- No return
FF-30- Built to 1.08"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.52	105.52	Initial Hydro-static
2	28.00	106.33	Open To Flow (1)
31	48.98	117.94	Shut-In(1)
76	1040.79	119.04	Shut-In(2)
77	52.65	118.77	Open To Flow (2)
104	71.50	119.52	Shut-In(3)
166	1010.73	119.93	End Shut-In(1)
167	2164.14	120.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud 100%	0.37

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil Co LLC

12-14S-34W Logan, KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71786

DST#: 6

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 13:05:00

GENERAL INFORMATION:

Formation: **Morrow-Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:52:00

Time Test Ended: 20:03:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Dustin Day

Unit No: 70

Interval: 4407.00 ft (KB) To 4540.00 ft (KB) (TVD)

Total Depth: 4540.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 2879.00 ft (KB)

2868.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8525 Inside

Press@RunDepth: psig @ 4408.00 ft (KB)

Start Date: 2024.04.12

End Date:

2024.04.12

Start Time: 13:05:05

End Time:

20:03:44

Capacity: 8000.00 psig

Last Calib.:

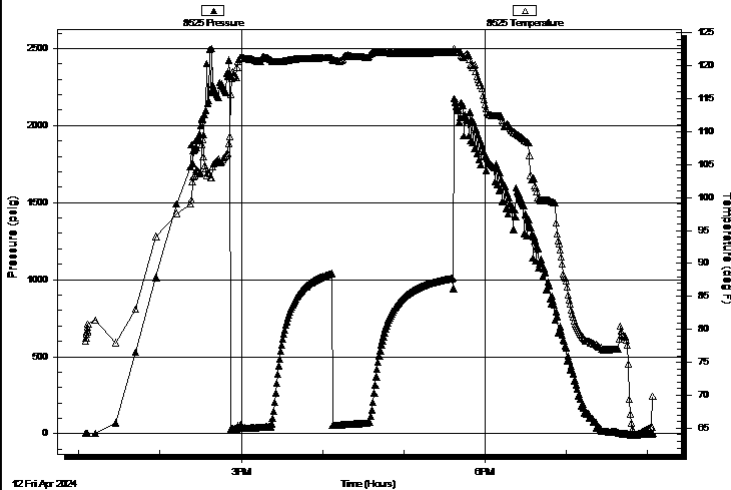
2024.04.12

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30- Built to 1.67"
SI1-45- No return
FF-30- Built to 1.08"
SI2-60- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
75.00	mud 100%	0.37

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71786

DST#: 6

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 13:05:00

Tool Information

Drill Pipe:	Length: 4152.00 ft	Diameter: 3.80 inches	Volume: 58.24 bbl	Tool Weight:	2900.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	64000.00 lb
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4407.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	133.00 ft				
Tool Length:	163.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Jars	5.00			4392.00	
EM Sub	3.00			4395.00	
Safety Joint	3.00			4398.00	
Packer	5.00			4403.00	30.00 Bottom Of Top Packer
Packer	4.00			4407.00	
Stubb	1.00			4408.00	
Recorder	0.00	8525	Inside	4408.00	
Recorder	0.00	8675	Outside	4408.00	
perforations	5.00			4413.00	
Change Over Sub	1.00			4414.00	
Drill Pipe	126.00			4540.00	133.00 Bottom Packers & Anchor

Total Tool Length: 163.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Co LLC

12-14S-34W Logan,KS

125 N Market Suite 1015
Wichita, KS 67202

Younkin #1-12

Job Ticket: 71786

DST#: 6

ATTN: Jarred Leis

Test Start: 2024.04.12 @ 13:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	mud 100%	0.369

Total Length: 75.00 ft

Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

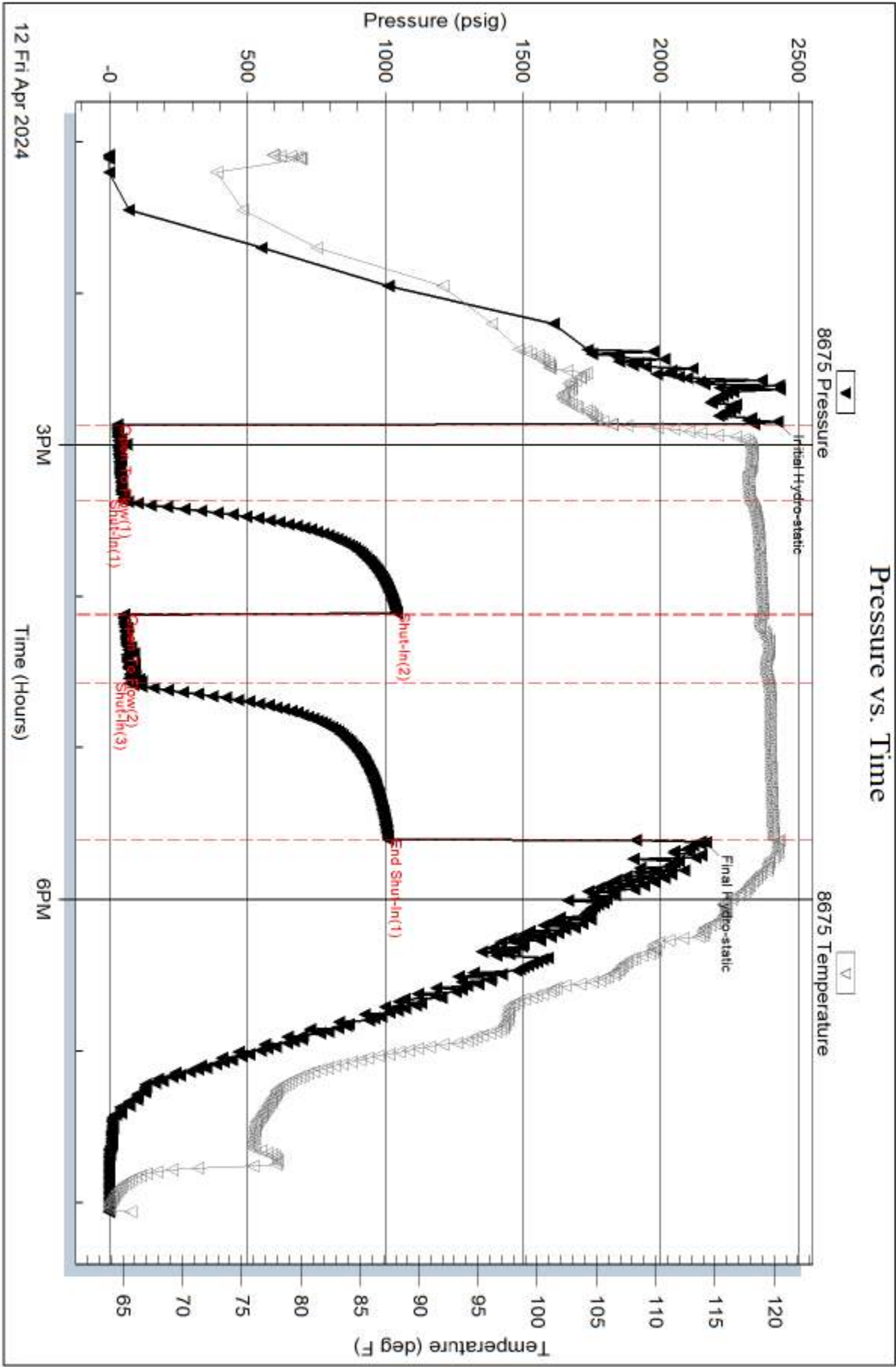
Recovery Comments: 2# LCM

Serial #: 8675

Outside Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 6



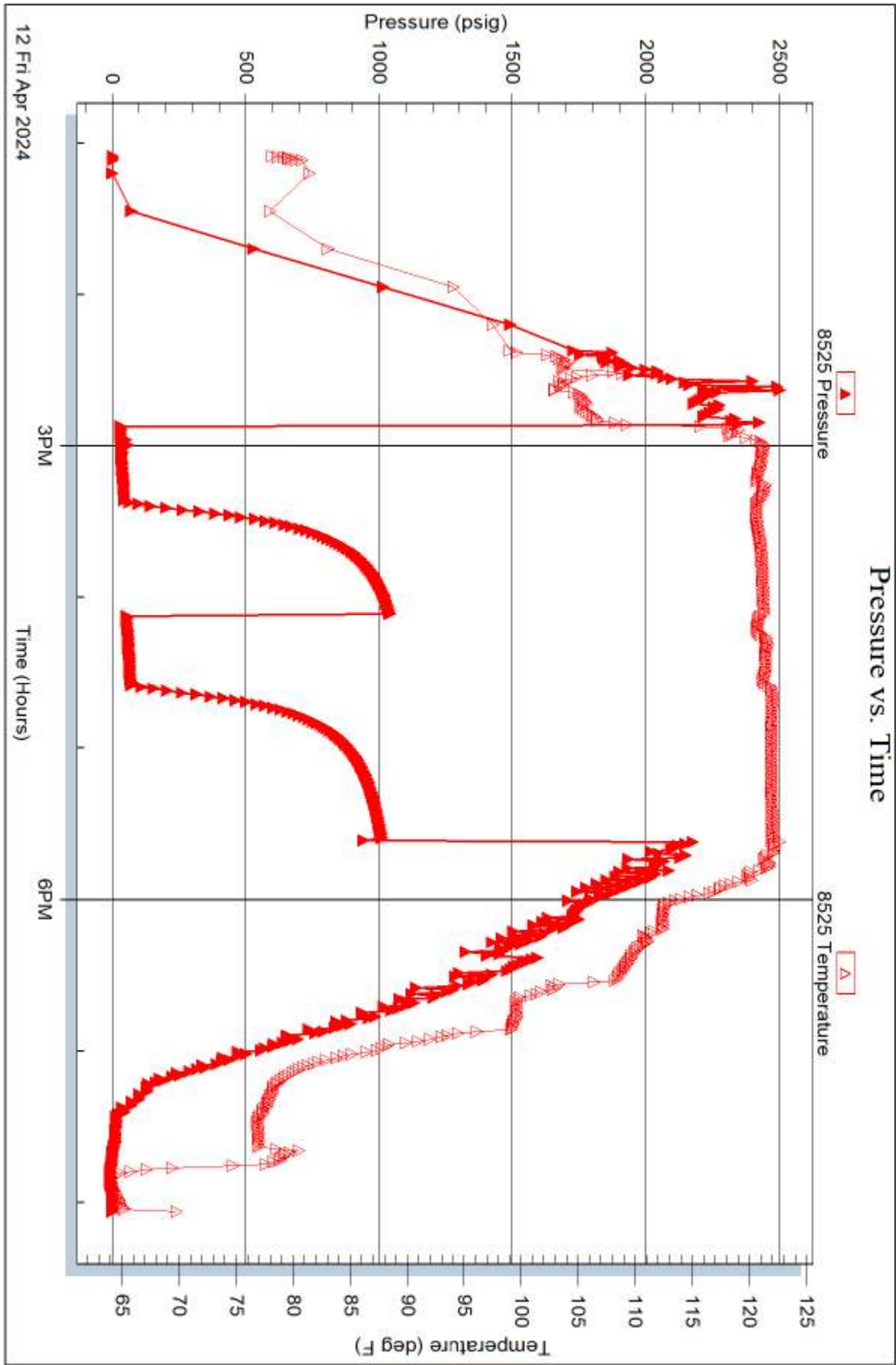
Serial #: 8525

Inside

Darrah Oil Co LLC

Younkin #1-12

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71781

Well Name & No. Younkin #1-12 Test No. 1 Date 4/17/21
 Company Darrah Oil Company LLC Elevation 2879 KB 2868 GL
 Address 125 N. Market Suite 1015 Wichita, KS 67202
 Co. Rep / Geo Jared Leis Rig Muffin Rig #21
 Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 3935-4025 Zone Tested LKC H-J
 Anchor Length 90 Drill Pipe Run 3678 Mud Wt. 8.9
 Top Packer Depth 3930 Drill Collars Run 240 Vis 59
 Bottom Packer Depth 3935 Wt. Pipe Run 0 WL 2.2
 Total Depth 4025 Chlorides 5000 ppm System LCM 2#

Blow Description IF-Built to 11.57"
S14- No return
EF-Built to 9.08"
S12- No return

Rec <u>30</u>	Feet of <u>GM w/oil spots</u>	<u>15</u> %gas	%oil	%water <u>85</u>	%mud
Rec <u>246</u>	Feet of <u>SGOCM</u>	<u>5</u> %gas	<u>5</u> %oil	%water <u>90</u>	%mud
Rec <u>120</u>	Feet of <u>WCM</u>	%gas	%oil	<u>15</u> %water	<u>85</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 396 BHT 115 Gravity _____ API RW .410 @ 31 °F Chlorides 40000 ppm
 Initial Hydrostatic 1979 ☒ Test 1950 ☐ Ruined Shale Packer _____
 Initial Flow 26 to 149 ☒ Jars 300 ☐ Ruined Packer _____
 Initial Shut-In 1235 ☐ Circ Sub _____ ☒ Hotel _____
 Final Flow 152 to 202 ☐ Hourly Standby _____ ☐ EM Tool Successful -350
 Final Shut-In 1231 ☒ Mileage 76 133 ☐ Accessibility _____
 Final Hydrostatic 1923 ☐ Sampler _____ ☐ Gas Sample _____
 T- On Location 23:45 ☐ Straddle _____ ☐ Oversized Hole _____
 Initial Flow 30 T-Started 01:07 ☐ Shale Packer _____ ☐ Sub Total -350
 Initial Shut-In 45 T-Open 03:44 ☐ Extra Packer _____ ☐ Total 2033
 Final Flow 30 T-Pulled 06:19 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 100 T-Out 08:44 ☐ Day Standby _____ ☐ MP/DST Disc't _____
 Comments _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71782

Well Name & No. Younkin #1-12 Test No. 2 Date 4/9/24
Company Darrah Oil Company Elevation 7879 KB 2868 GL
Address 125 N. Market Suite 1015 Wichita, KS 67202
Co. Rep / Geo Jarred Leis Rig Martin Rig #21
Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 4116-4232 Zone Tested Marm-Altonensis
Anchor Length 116 Drill Pipe Run 3867 Mud Wt. 8.9
Top Packer Depth 4111 Drill Collars Run 240 Vis 61
Bottom Packer Depth 4116 Wt. Pipe Run 2 WL 7.6
Total Depth 4232 Chlorides 6000 ppm System LCM 3#

Blow Description IF- Built to 3.46"
S12- No return
FF- Built to 2.25"
S12- No return

Rec <u>5</u>	Feet of <u>60</u>	<u>5</u> %gas	<u>95</u> %oil	%water	%mud
Rec <u>600</u>	Feet of <u>60CM</u>	<u>5</u> %gas	<u>30</u> %oil	%water	<u>65</u> %mud
Rec <u>120</u>	Feet of <u>60WCM</u>	<u>5</u> %gas	<u>12</u> %oil	<u>3</u> %water	<u>80</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 185 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
Initial Hydrostatic 2167 ☒ Test 1950 ☐ Ruined Shale Packer _____
Initial Flow 23 to 73 ☒ Jars 300 ☐ Ruined Packer _____
Initial Shut-In 1326 ☐ Circ Sub _____ ☒ Hotel _____
Final Flow 80 to 106 ☐ Hourly Standby _____ ☐ EM Tool Successful -350
Final Shut-In 1318 ☒ Mileage 76 133 ☐ Accessibility _____
Final Hydrostatic 1988 ☐ Sampler _____ ☐ Gas Sample _____
T- On Location 05:35 ☐ Straddle _____ ☐ Oversized Hole _____
Initial Flow 30 T-Started 06:22 ☐ Shale Packer _____ ☐ Sub Total -350
Initial Shut-In 45 T-Open 08:05 ☐ Extra Packer _____ ☐ Total 2033
Final Flow 30 T-Pulled 10:48 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
Final Shut-In 60 T-Out 13:03 ☐ Day Standby _____ ☐ MP/DST Disc't _____
Comments _____

Approved By _____ Our Representative [Signature]

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71783**

Well Name & No. Younkin #1-12 Test No. 3 Date 4/10/24
 Company Darrah Oil Company Elevation 2879 KB 2868 GL
 Address 125 N. Market Suite 1015 Wichita, KS 67202
 Co. Rep / Geo Jared Leis Rig Murfin Rig #21
 Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 4232-4322 Zone Tested Pawnee - Ft. Scott
 Anchor Length 90 Drill Pipe Run 3994 Mud Wt. 9.4
 Top Packer Depth 4227 Drill Collars Run 240 Vis 62
 Bottom Packer Depth 4232 Wt. Pipe Run 5 WL 8.8
 Total Depth 4322 Chlorides 7000 ppm System LCM 3#

Blow Description IF- Built to 4.87
S14- No return
FF- Built to 6.26"
S12- No return

Rec <u>1</u>	Feet of <u>oil</u>	%gas <u>120</u>	%oil	%water	%mud
Rec <u>70</u>	Feet of <u>GMCO</u>	<u>10</u> %gas	<u>55</u> %oil	%water <u>35</u>	%mud
Rec	Feet of <u>(170 GIP)</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 71 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2248 ☒ Test 1950 ☐ Ruined Shale Packer _____
 Initial Flow 22 to 32 ☒ Jars 300 ☐ Ruined Packer _____
 Initial Shut-In 1081 ☐ Circ Sub _____ ☒ Hotel _____
 Final Flow 40 to 52 ☐ Hourly Standby _____ ☐ EM Tool Successful -350
 Final Shut-In 1098 ☒ Mileage 76 133 ☐ Accessibility _____
 Final Hydrostatic 2181 ☐ Sampler _____ ☐ Gas Sample _____
 T- On Location 02:20 ☐ Straddle _____ ☐ Oversized Hole _____
 Initial Flow 30 T-Started 04:26 ☐ Shale Packer _____ ☐ Sub Total -350
 Initial Shut-In 45 T-Open 06:36 ☐ Extra Packer _____ ☐ Total 2033
 Final Flow 30 T-Pulled 09:21 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 11:22 ☐ Day Standby _____ ☐ MP/DST Disc't _____
 Comments _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71784

Well Name & No. Younkin #1-12 Test No. 4 Date 4/10-11/24
 Company Darrah Oil Company Elevation 2879 KB 2868 GL
 Address 125 N. Market Suite 1015 Wichita, KS 67202
 Co. Rep / Geo Jarred leis Rig Murfin Rig #21
 Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 4316-4398 Zone Tested Johnson
 Anchor Length 82 Drill Pipe Run 4058 Mud Wt. 9.6
 Top Packer Depth 4311 Drill Collars Run 240 Vis 76
 Bottom Packer Depth 4316 Wt. Pipe Run 8 WL 10.6
 Total Depth 4398 Chlorides 9000 ppm System LCM 3#

Blow Description IF-Built to 1.51"
S14-No return
FF-Built to 1.86"
S12-No return

Rec <u>60</u>	Feet of <u>6050 CM</u>	<u>10</u> %gas	<u>2</u> %oil	%water	<u>88</u> %mud
Rec _____	Feet of <u>600' GIP</u>	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 60 BHT 115 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2250 ☒ Test 1950 ☐ Ruined Shale Packer _____
 Initial Flow 23 to 30 ☒ Jars 300 ☐ Ruined Packer _____
 Initial Shut-In 702 ☐ Circ Sub _____ ☒ Hotel _____
 Final Flow 34 to 44 ☐ Hourly Standby _____ ☒ EM Tool Successful _____
 Final Shut-In 320 ☒ Mileage 716 133 ☐ Accessibility _____
 Final Hydrostatic 2207 ☐ Sampler _____ ☐ Gas Sample _____
 T- On Location 21:45 ☐ Straddle _____ ☐ Oversized Hole _____
 Initial Flow 30 T-Started 22:15 ☐ Shale Packer _____ ☐ Sub Total 0
 Initial Shut-In 45 T-Open 00:13 ☐ Extra Packer _____ ☐ Total 2383
 Final Flow 30 T-Pulled 02:28 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 30 T-Out 04:55 ☐ Day Standby _____ ☐ MP/DST Disc't _____

Comments _____

Approved By _____ Our Representative DWJ DS

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71785**

Well Name & No. Younkin #112 Test No. 5 Date 4/12/24
 Company Parrah Oil Company Elevation 2879 KB 2868 GL
 Address 125 N. Market Suite 1015 Wichita, KS 67202
 Co. Rep / Geo Jarred Leis Rig Mudfin Rig #21
 Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 4010-4035 Zone Tested LKC J
 Anchor Length 25 Drill Pipe Run 3774 Mud Wt. 9.2
 Top Packer Depth 4005 Drill Collars Run 240 Vis 50
 Bottom Packer Depth 4610 Wt. Pipe Run 0 WL 8.8
 Total Depth 4540 Chlorides 7000 ppm System LCM 2#

Blow Description FF-Built to 5.74"
S11- No return
FF-Built to 5.21"
S12- No return

Rec <u>15</u>	Feet of <u>USGwcm/w/loil spots</u>	<u>3</u> %gas	%oil	<u>2</u> %water	<u>95</u> %mud
Rec <u>100</u>	Feet of <u>GWCM</u>	<u>10</u> %gas	%oil	<u>20</u> %water	<u>70</u> %mud
Rec <u>140</u>	Feet of <u>GMCW</u>	<u>5</u> %gas	%oil	<u>55</u> %water	<u>40</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 255 BHT 115 Gravity _____ API RW 301 @ 70 °F Chlorides 23000 ppm
 Initial Hydrostatic 2088 ☒ Test 1950 ☐ Ruined Shale Packer _____
 Initial Flow 22 to 81 ☒ Jars 300 ☐ Ruined Packer _____
 Initial Shut-In 1222 ☐ Circ Sub _____ ☒ Hotel _____
 Final Flow 86 to 133 ☐ Hourly Standby _____ ☐ EM Tool Successful -350
 Final Shut-In 1217 ☒ Mileage 710 133 ☐ Accessibility _____
 Final Hydrostatic 2047 ☐ Sampler _____ ☐ Gas Sample _____
 T- On Location 0515 ☒ Straddle 800 ☐ Oversized Hole _____
 Initial Flow 30 T-Started 0550 ☒ Shale Packer 250 ☐ Sub Total -350
 Initial Shut-In 45 T-Open 0748 ☐ Extra Packer _____ ☐ Total 3083
 Final Flow 30 T-Pulled 10:33 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 12:40 ☐ Day Standby _____ ☐ MP/DST Disc't _____
 Comments _____

Approved By _____ Our Representative DJH

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**TRILOBITE
TESTING INC.**

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **71786**

Well Name & No. Younkin #1-12 Test No. 6 Date 4/12/24
 Company Darrah Oil Company Elevation 2879 KB 2868 GL
 Address 125 N Market Suite 1015 Wichita, KS 67203
 Co. Rep / Geo Jarred Leis Rig Murfin Rig #21
 Location: Sec. 12 Twp 14S Rge. 34W Co. Logan State KS

Interval Tested 4407-4540 Zone Tested Morrow-Miss
 Anchor Length 133 Drill Pipe Run 4152 Mud Wt. 9.2
 Top Packer Depth 4402 Drill Collars Run 240 Vis 50
 Bottom Packer Depth 4407 Wt. Pipe Run 0 WL 8.8
 Total Depth 4540 Chlorides 1000 ppm System LCM 2#

Blow Description FF-Built to 1.67"
S11- No return
FF-Built to 1.08"
S12- No return

Rec <u>75</u>	Feet of <u>Mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75 BHT 119 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 Initial Hydrostatic 2424 ☒ Test 1950 ☐ Ruined Shale Packer _____
 Initial Flow 28 to 49 ☒ Jars 300 ☐ Ruined Packer _____
 Initial Shut-In 1041 ☐ Circ Sub ☒ Hotel Stayed on location
 Final Flow 53 to 72 ☐ Hourly Standby ☒ EM Tool Successful _____
 Final Shut-In 1011 ☐ Mileage - ☐ Accessibility _____
 Final Hydrostatic 2164 ☐ Sampler _____ ☐ Gas Sample _____
 T- On Location - ☐ Straddle _____ ☐ Oversized Hole _____
 Initial Flow 30 T-Started 13:05 ☐ Shale Packer _____ ☐ Sub Total 0
 Initial Shut-In 45 T-Open 14:53 ☐ Extra Packer _____ ☐ Total 2250
 Final Flow 30 T-Pulled 17:37 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
 Final Shut-In 60 T-Out 20:05 ☐ Day Standby _____ ☐ MP/DST Disc't _____
 Comments _____

Approved By _____ Our Representative _____

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Jarred Leis
Petroleum Geologist

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

 **DARRAH**
OIL

Operator

Darrah Oil Co., LLC

Well Name

Younkin # 1-12

Operator Address

125 N Market St.
Wichita, KS 67202

Well Information

Field: Wildcat

Region:

Coordinates: 2219' FSL/ 1294' FWL

Location: Twp 14 Rge 34W Sec 12

State: Kansas, Logan

API Index: 15-109-21672

Rig Operator: Murfin Rig #21

Ground Elevation(ft): 2868.0

KB Elevation(ft): 2879.0

Spud Date: 4/4/24

Drilling Concluded: 4/12/24

Darrah Oil Co., LLC Geologist(s):
Seth Evenson

Rig Supervisor(s):
Juan Tinoco

Hole Data

12 1/4" Hole from surface to 225'
7 7/8" Hole from 225' to TD

Casing Data

Surface Pipe: 8 5/8" 211' @ 225' w/ 175sx
cemented by HSI

Production Casing: 4534' of 15.5# 5 1/2"
Casing. Cemented by HSI.

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

Notes

Due to favorable shows and DST results the decision was made to run production casing to further evaluate this well through perforations.

Driller TD: 4540
ELI Logger TD: 4541

Log Images

	Bit Trip
	Midnight
	Gas Show
	Oil Show
	Casing Show
	AM Report
	PM Report

FORMATION TOPS

Formation	Sample TOP	Log Top
Anhydrite	2285 (594)	2285 (594)
B/Anhydrite	2307 (572)	2304 (575)
Oread	3678 (-799)	3681 (-802)
Heebner	3732 (-853)	3735 (-856)
Toronto	3746 (-867)	3748 (-869)
Lansing	3773 (-894)	3773 (-894)
Muncie Creek	3943 (-1064)	3946 (-1067)
Stark	4031 (-1152)	4041 (-1162)
Hushpuckney	4073 (-1194)	4082 (-1203)
BKC		4110 (-1231)
Marmaton		4157 (-1278)
Pawnee	4240 (-1361)	4249 (-1370)
Ft Scott	4293 (-1414)	4303 (-1424)
Cherokee SH	4323 (-1444)	4330 (-1451)
Morrow SH		4431 (-1552)
Basal Penn SD	4472 (-1593)	4472 (-1593)
MISS	4479 (-1600)	4480 (-1601)

DAILY ACTIVITY @ 07:00

4/3/24: MIRT
4/4/24: Spud well
4/5/24: Drilling ahead @ 1400'
4/6/24: Drilling ahead @ 3070'
4/7/24: Drilling ahead @ 3800'
4/8/24: TOH @ 4025 for DST #1
4/9/24: TIH @ 4232 for DST #2
4/10/24: Performing DST #3
4/11/24: TOH @ 4398' for DST #4
4/12/24: TIH w/ DST #5
4/13/24: Cementing Production Casing

Graph #1

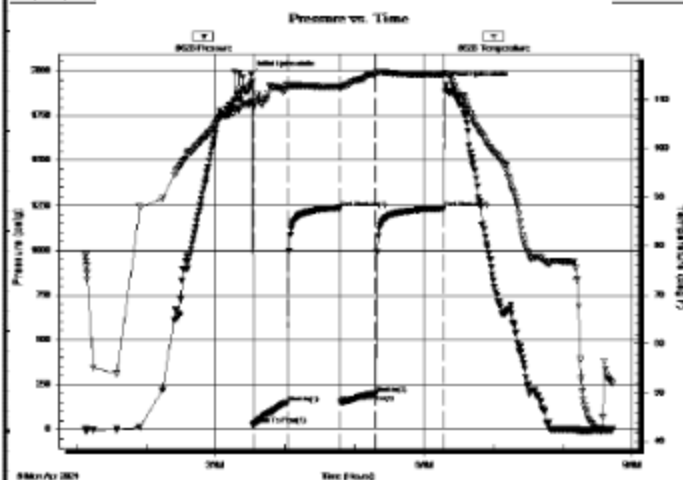
Depths (ft)

Sample %

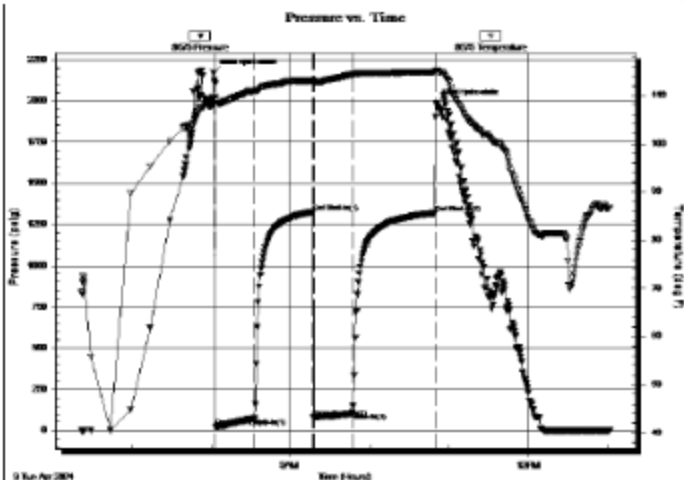
Oil Show

DST's

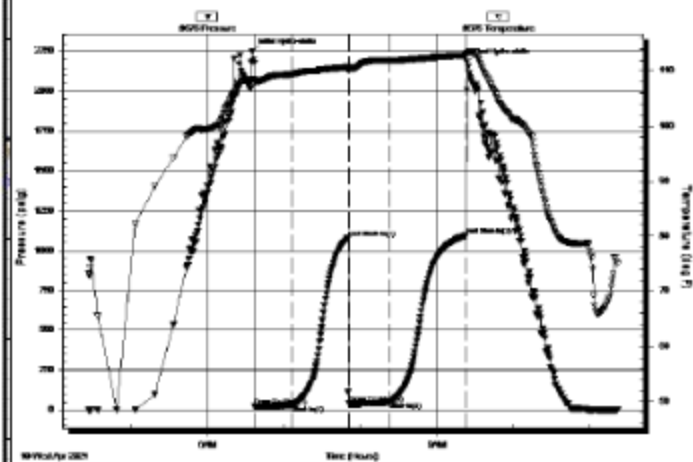
Descriptions

DST #1 3935-4025 (Lan H-J)**Recovery**

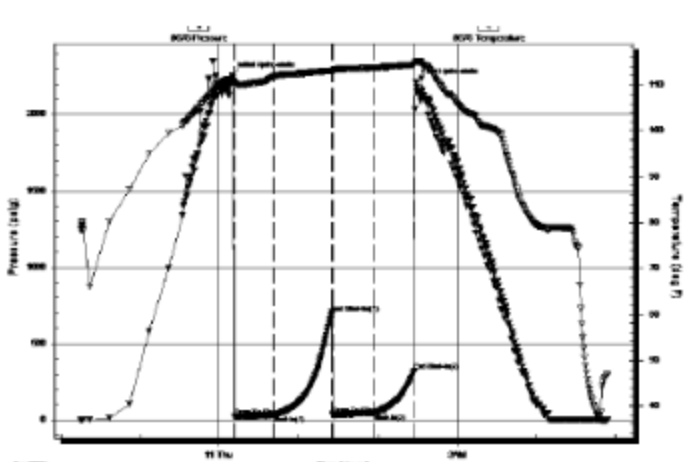
Length (ft)	Description	Volume (bbl)
120.00	WCM 15% water 85% mud	0.59
246.00	SGOCM 5% gas 5% oil 90% mud	2.36
30.00	GM (W/OIL SPOTS) 15% gas 85% mud	0.42

DST #2 4116-4232 (Marmaton-Altamont)**Recovery**

Length (ft)	Description	Volume (bbl)
5.00	GO 5% gas 95% oil	0.02
60.00	GOCM 5% gas 30% oil 65% mud	0.30
120.00	GOWCM 5% gas 12% oil 3% water 80% n0.59	0.59

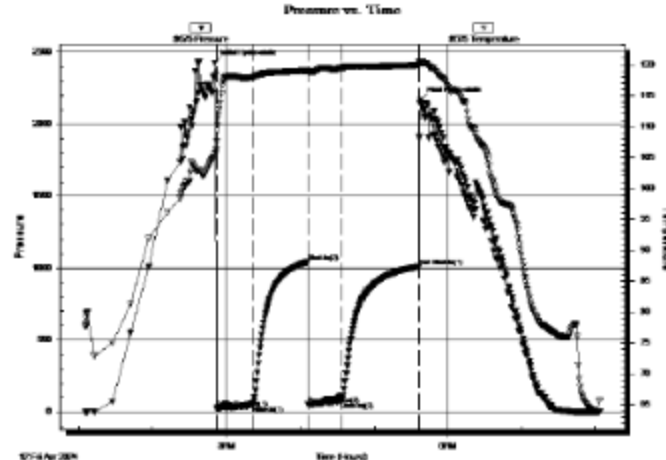
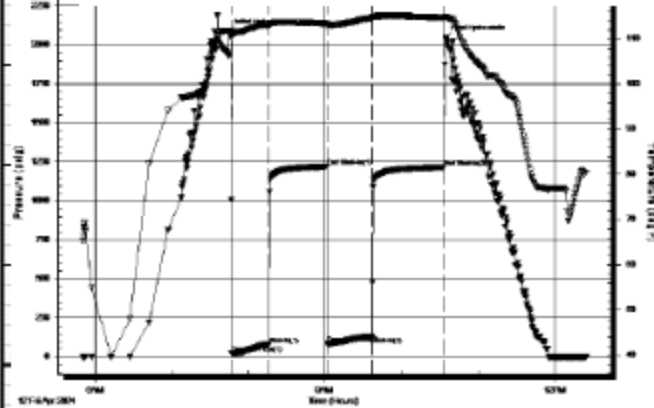
DST #3 4232-4322 (Pawnee- Ft Scott)**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	oil 100%	0.00
70.00	GMCO 10% gas 55% oil 35% 35% mud	0.34
0.00	170' GAS	0.00

DST #4 4316-4398 (Johnson Zn)**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	GVSOOM 10% gas 2% oil 88% mud	0.30
0.00	60' GP	0.00

DST #5 4010-4035 (Lan J)**DST #6 4407-4540 (Morrow-MISS)**

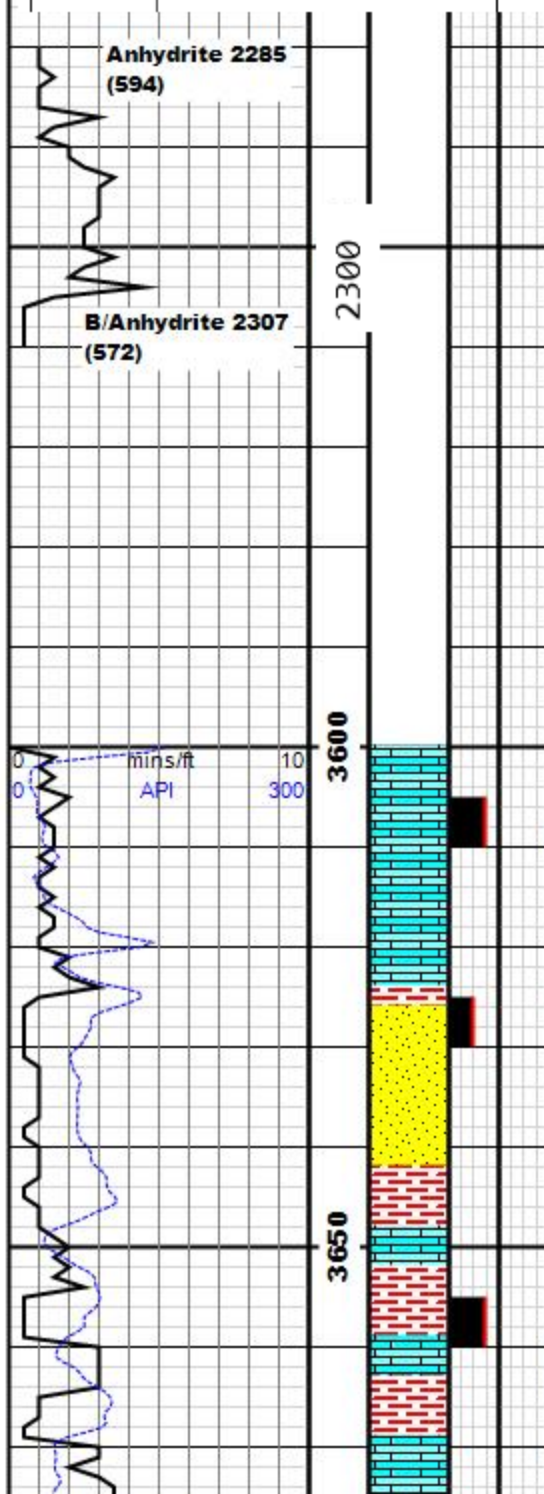


Recovery

Length (ft)	Description	Volume (bbl)
100.00	GWCM 10% gas 20% water 70% mud	0.49
140.00	GMCM 5% gas 55% water 40% mud	0.69
15.00	VSGWCM 3% gas 2% water 95% mud (v0.21 sp	

Recovery

Length (ft)	Description	Volume (bbl)
75.00	mud 100%	0.37



LS: Tan, sm gry, sub-dense, micro foss, no vis por/ SH: Gry, brn 3 pcs LS: Tan, fg, sub-dense, fr-gd xln&vgy por, FSFO (tar-like oil), no odor, dull fir

LS: Tan, xln, mstly sub-frbl, sm SS: Gry, brn, vfg, well rnd, frbl, pr por 1 pc LS: Crm, xln, sub-dense, fr fracture&xln por, slsFO (tar-like oil), no odr, gd strn, vry dull fir

LS: Tan-gry, sli foss&ool, sub-dense, sm sctrd pr xln por, SS: AA 3pcs LS: Tan-brn, fg, dense, pr xln & sm small vug por, FSFO, no odor, dull fir, slw ct. Oil in samples much less tar-like than above

SH: Brn&gry w/ LS and SS AA, no shows

3681 (-802)

Bit Trip @ 3700
Changed to Tri-cone
bit from PDC

Heebner
3735 (-856)

Toronto
3748 (-869)

Lansing
3773 (-894)

SAMPLE GAP DUE TO NO CIRC SAMPLES BEFORE BIT TRIP

3700

LS: Tan, fg-xln, sub-frbl, vry scrd foss, no vis por. 1 pc LS: gry, xln, dense, pr pn pt por, sliSFO, no odor, no fir

LS: Tan-crm, xln, sub-dense, chlky, sm pr xln por, NS w/ SH: brn, gry, gm

LS: Tan-crm, fg, sub-dense, abdnt foss&ool, no vis por, sli chlky

LS: Tan & Gry, xln, dense, no por/ SH: Blk, sm gry

LS: Gry-tan, fg, sub-dense, scrd foss, sm vry pr intr xln por, sli chlky, psbl scrd dead oil stn, no odor

3750

LS:AA, vry scrd chlky

LS: Gry-tan, xln, dense, no por, chlky

LS: Gry-tan, fg-xln, sub-dense, no vis por, sli chlky

LS: Tan, xln, dense, abdnt ool pcs, scrd foss frg, sm pr intr grnl por, chlky, NS

50% LS: Tan, f-mg, sub-dense, ool, no vis por, NS 50% Chlk: Wht

3800

LS: AA much less chlky

LS: Tan, xln, sub-dense w/ abdnt ool grnstrn pcs, no por, chlky

AA less ool grnstrn pcs

LS: Tan-gry, fg, vry abdnt ool pcs, no vis por, vry chlky SH: gry&brn 3 pcs LS: Gry, fg, sub-frbl, pr xln por, sli-FSFO (Tar-like oil), no odr, dl flr, md strmg ct

LS: Tan, fg, sub-frbl, no vis por, vry scrd SH: Gry

3850

LS: Tan, fg, sub-frbl, no por, vry chlky 2 pcs LS w/ vry pr xln por, sli SFO (tar-like)

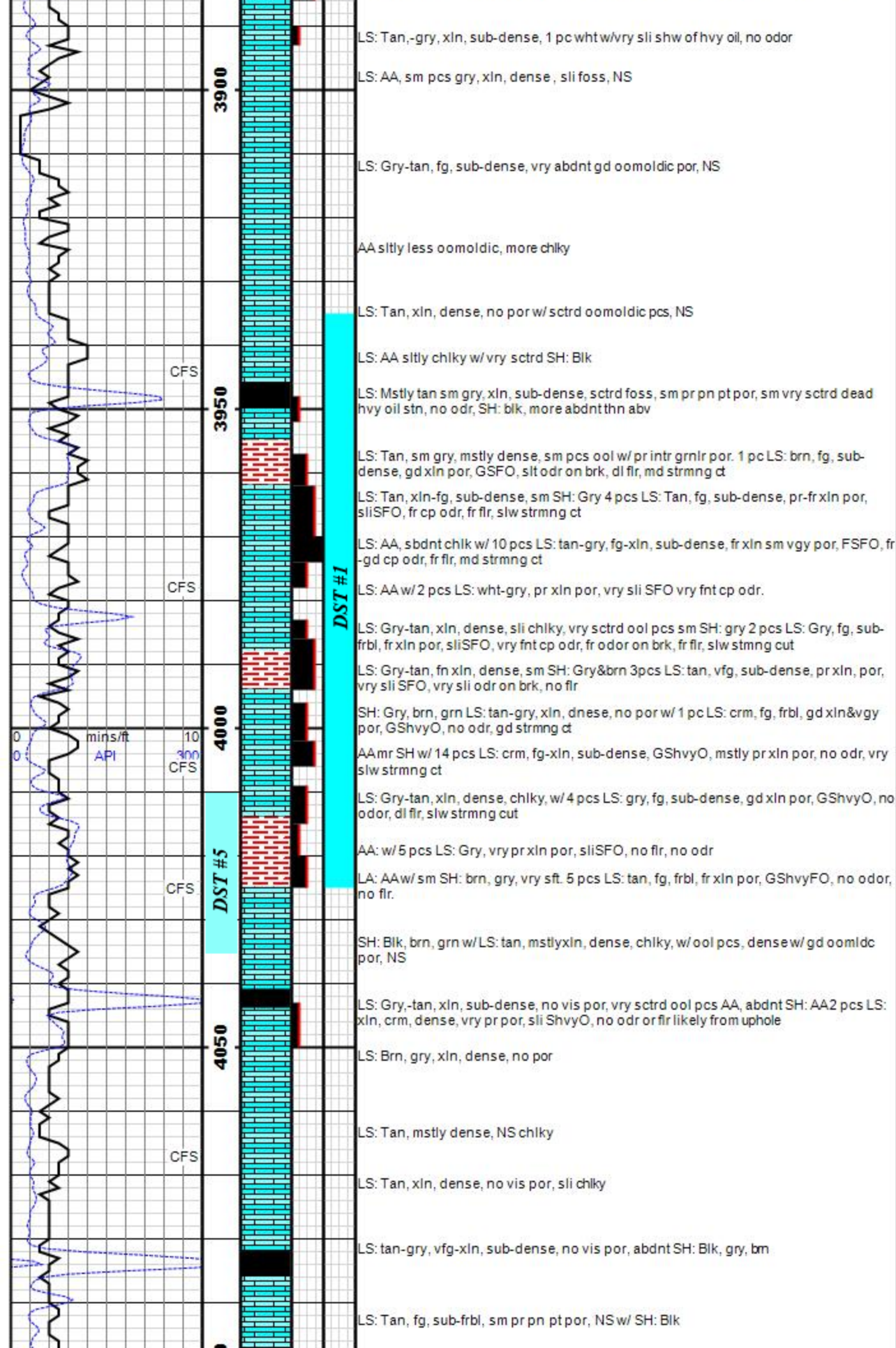
LS: AA no shows

LS: Tan, fg, sub-dense, vry sli foss, vry scrd chlky, vry scrd SH: BLK

LS: Gry-tan, fg-xln, sub-dense, chlky, scrd SH: blk, gry, grn 3pcs LS: crm, vfg, frbl, fr xln por, fr stn, extrmly sliSFO, no odor or fir

LS: tan-gry, fg, sub-dense, no por, sli chlky 3 pcs LS: gry, fg, sub-dense, sli-frSFO, fr xln por, no odor, fr flr, med strmg cut (oil in samples light oil vs shows above)

0 mins/ft
0 API
CFS 300



**Muncie Creek
3946 (-1067)**

Andy's Mud Check @3590
Wt: 8.9 Vis: 59 LCM: 2#

**DST #1 3935-4025
Lansing H-J**

IF: Blt to 11.6", no return
FF: Blt to 9", no return

Rec: 30' GsyM w/ oil spts
246' SGOCM
120' WCM

ISIP: 1235 IFP: 25-149
FSIP: 1231: FFP: 152-202

**DST #5 4010-4035
Lansing J Straddle**

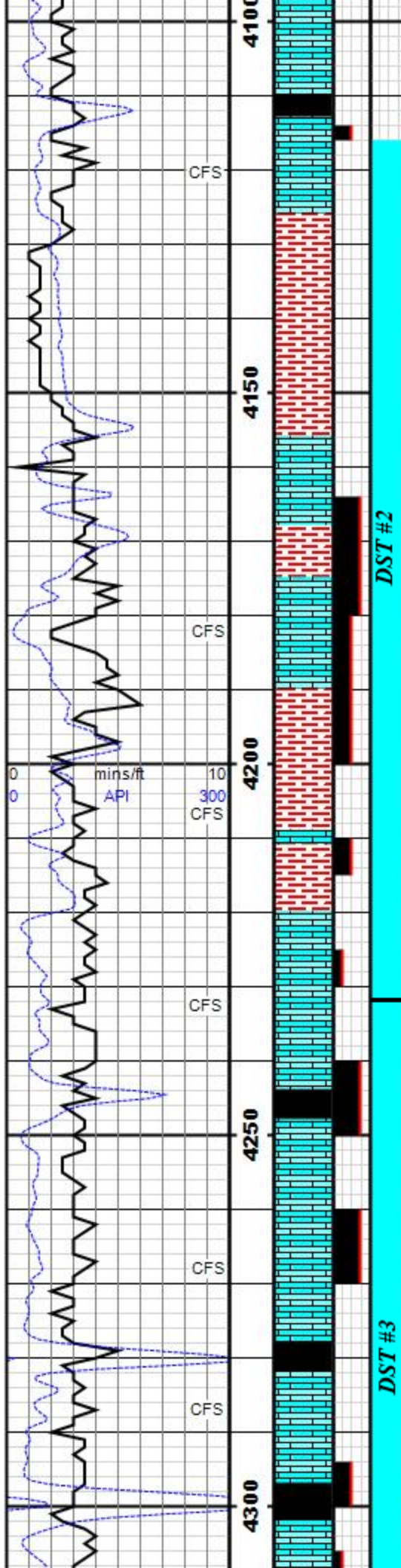
IF: Blt to 5.8", no return
FF: Blt to 5.2", no return

Rec: 15' VSGWCM
100' GWCM
140' GMCW

ISIP: 1223 IFP: 22-81
FSIP: 1218 FFP: 86-133

**Stark
4041 (-1162)**

**Hushpuckney
4082 (-1203)**



DST #2

DST #3

LS: Tan, fg, sub-dense, sm ool pcs, scrd foss, no por
 AA: w/ vry scrd SH: Blk
 LS: Tan, fg-xln, sub-dense, chiky, more abndt SH: blk than above 1 pc LS: gry, fg, gd vgy por, FSFO, gd stn, no odor
 LS: AA less chiky w/ SH: brn&gry
 LS: AA w/ ss: gry, vfg, sub-frbl, wl rnd, qtz, no vis por, NS
 LS: Tan, xln, sub-dense, sli foss & ool, chiky, w/ SS: AA becoming more brn thn gry/ SH: gry, brn
 LS: Tan, fg, xln, dense, sm pr pn pt por, 1 pc LS: Brn, fg, sub-frbl, pr xln por, vry slt stn, no odr dl flr
 2 pcs 4182 smpl LS: brn, fg, sub-frbl, fr-gd xln por, sli-frSFO, no odr, slw strng ct
 LS: Tan&gry, xln, sub-dnes, chiky w/ sh: gry sft, brn 1 pc LS brn, xln, frbl, frstn, NSFO, no odr, dl flr
 LS: AA w/ 2 pcs LS: brn, f-mg, sub-dnes, pr xln por, vry sliSFO, dl flr, no odr, slw ct
 SH: Gry, w/ LS: tan, vfg, sub-dens, sli chiky, no por 1 pc LS: tan, vfg, sub-dense, pr xln por, sliSFO on brk, no odr, fr flr
 SH: Gry w/ LS: AA vry chiky, scrd ool, NS
 LS: AA 1 pc LS: tan, fg, sub-frbl, pr-fr xln por, vry sliSFO, no odr, fr flr
 LS: Tan&gry, fg, sub-dense, no por/ SH: gry, NS
 SH: Gry-blk, w/ LS: tan, fn xln, dense, w/ 2 pcs LS: Gry, fg, sub-frbl, pr vgy por, FShvyO, no odr, no ct
 LS: Tan&gry, fn xln, dense, no por
 LS: AA 1 pc LS: wht, pr xln por, sli shw hvy tar oil, no odr, no flr
 LS: Gry-tan, fg-xln, sli ool, NS
 SH: Gry, blk, / LS: Tan, xln, sub-dnese, scrd pr pn pt por
 LS: Gry&tan, xln, dense, sli chiky, no por w/ SH: AA 1 pc LS: Tan, fg, sub-frbl, gd xln por, gd stn, frSFO, no odr, no flr
 AA vry scrd chlk, NS
 LS: Gry-tan, xln, dense, scrd chry: gry&wht, no por, 1 pc LS: gry, xln, dense, strd fr vgy por, sliSFO, gd stn, no odr, vry dl flr
 LS: AA w/ 1 pc fg, tan, gd xln por, GSFO, scrd gas bbls, fst strng ct
 LS: Tan, -gr, sub-dense, fg, no pors. scrd SH: Blk&gry
 LS: Gry, sm tan, xln, dense, no por, NS w/ SH: AA, more abndt
 SH: Blk&gry w/ LS AA, NS
 LS: Tan-gry, xln, dense, sm scrd cht: smoky gry, no por w/ 3 pcs LS: Tan, fg, sub-dense, fr xln por, sli-frSFO, no odr, fr flr, med strng ct
 LS: Tan, fg, dense, friy ool, no por, sli chiky w/ 1 pc LS: wht, fg, pr xln por, sli stn,

BKC
4110 (-1231)

Marmaton
4157 (-1278)

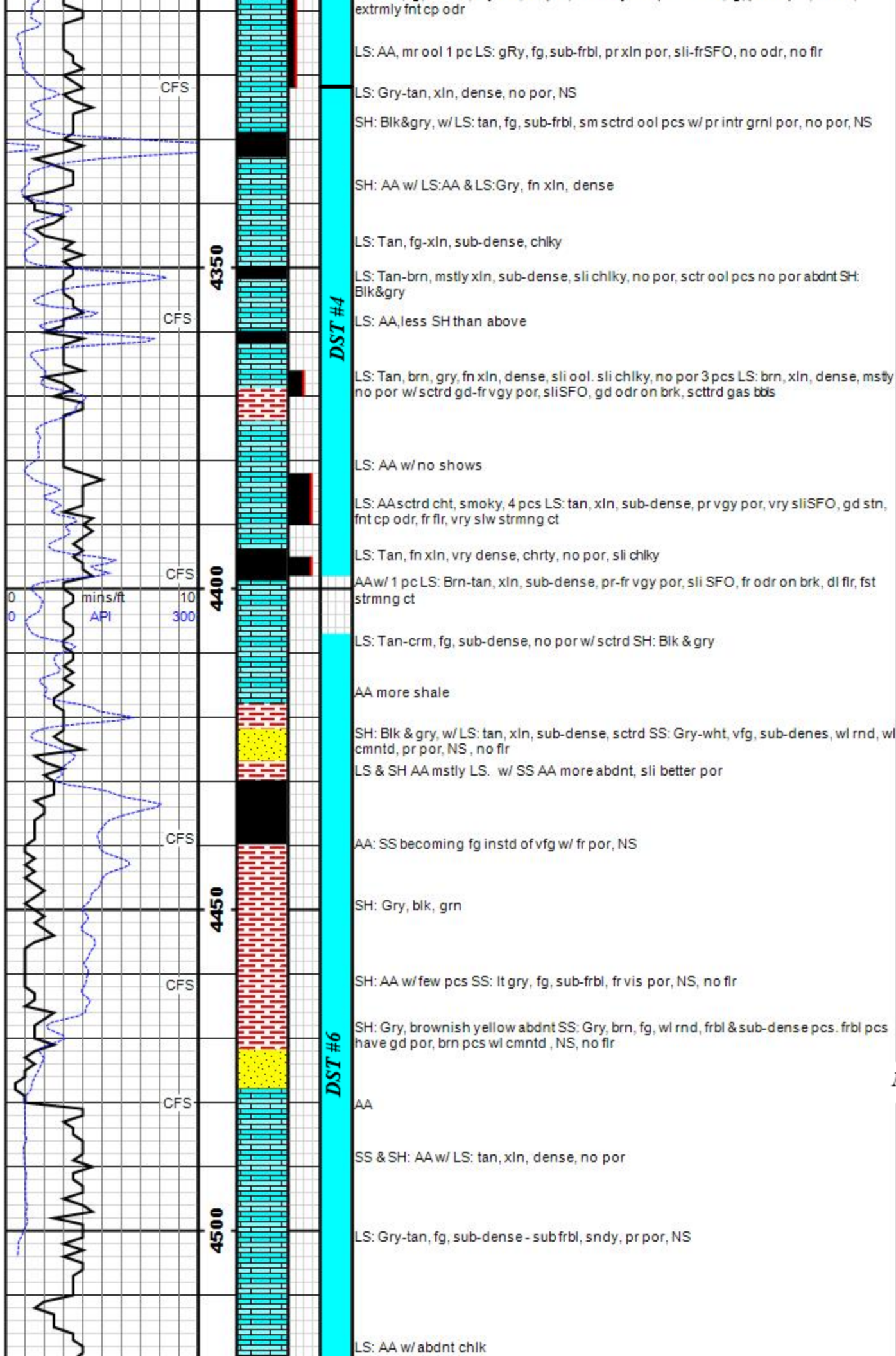
DST #2 4116-4232
Marmaton-Altmnt C
 IF: Blt to 3.5", no return
 FF: Blt to 2.25", no return
 Rec: 5' GO
 60' GOCM
 120' GOWCM
 ISIP: 1326 IFP: 23-73
 FSIP: 1318 FFP: 80-106

Andy's Mud Check@ 4232
 Wt: 9.4 Vis: 62 LCM: 3#

Pawnee
4249 (-1370)

DST #3 4232-4322
Pawnee-Ft. Scott
 IF: Blt to 4.9", no return
 FF: BLt to 6.3", no return
 Rec: 170' GIP
 1' Oil
 70' GMCO
 ISIP: 1081 IFP: 22-32
 FSIP: 1098 FFP: 40-52

Ft. Scott
4303 (-1424)



Andy's Mud Check @4322
Wt: 9.6 Vis: 76 LCM: 3#

Cherokee SH
4330 (-1451)

DST #4 4316-4398
Johnson Zn

IF: Blt to 1.6", no return
FF: Blt to 1.9", no return

Rec: 60' GIP
60' GVSOCM

ISIP: 702 IFP: 24-30
FSIP: 320 FFP: 35-44

Morrow SH
4431 (-1552)

Andy's Mud Check @ 4463
Wt: 9.2 Vis: 50 LCM: 2#

Basal Penn SD
4472 (-1593)

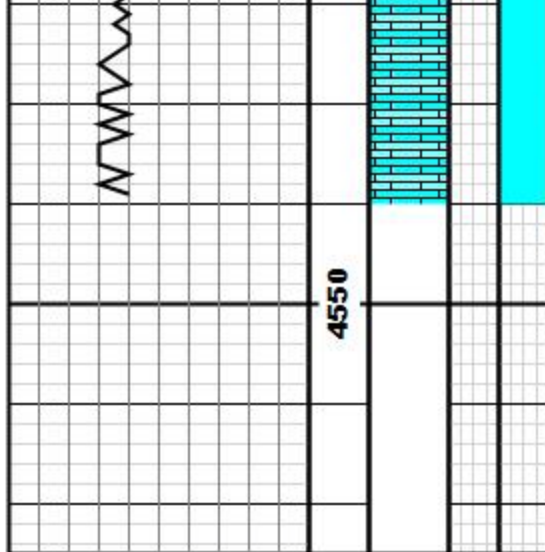
MISS 4480 (-1601)

DST #6 4407-4540
Morrow-MISS

IF: Blt to 1.7", no return
FF: Blt to 1.1", no return

Rec: 75' Mud

ISIP: 1041 IFP: 28-49
FSIP: 1011 FFP: 53-72



LS: Tan, fg, sndy, sub-frbl, fr por, sli chky

LS: AA w/LS: Gry & tan, xln, dense

LS: Gry-tan, xln, dense, no por, scrd sndy LS: AA

TOTAL DEPTH 4540