KOLAR Document ID: 1585729

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 # 35615
Name: Darrah Oil Company, LLC
Address 1: 125 N MARKET SUITE 1425
Address 2:
City: WICHITA State: KS Zip: 67202 + 1720
Contact Person: Cooper Seely
Phone: (316) 219-3390
CONTRACTOR: License # 5123
Name: Pickrell Drilling Company, Inc.
Wellsite Geologist: Aaron Young
Purchaser: CHS

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 #:

4/13/2021	4/22/2021	5/27/2021
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-135-26099-00-00
Spot Description:
NE - SW - SW - SE Sec. 17 Twp. 20 S. R. 23 ☐ East ☑ West
477 Feet from ☐ North / ☑ South Line of Section
2241 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ness
Lease Name: BURDITT Well #: 1-17
Field Name:
Producing Formation: Mississippi
Elevation: Ground: 2263 Kelly Bushing: 2270
Total Vertical Depth: 4440 Plug Back Total Depth: 4439
Amount of Surface Pipe Set and Cemented at: 290 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 1642 Feet
If Alternate II completion, cement circulated from: 1642
feet depth to: 0 w/ 150 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 7600 ppm Fluid volume: 660 bbls
Dewatering 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 Requested**
Date: 08/09/2021
☐ **Confidential Release Date:** 08/09/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 08/10/2021

Operator Name: Darrah Oil Company, LLC Lease Name: BURDITT Well #: 1-17

Sec. 17 Twp. 20 S. R. 23 ☐ East ☑ West County: Ness

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
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

Name	Top	Datum
Heebner	3703	-1433
Lansing	3750	-1480
Stark	4040	-1770
BKC	4103	-1833
Marmaton	4125	-1855

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	32	290	60-40 Poz	220	2%gel 3%cc
Production	7.875	5.5	15.5	4439	H Long	90	-

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:	Producing Method:
6/22/2021	☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4360	4384

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
3	4360	4363			
1	4376	4384			
3	4365	4375			

TUBING RECORD:	Size:	Set At:	Packer At:
	2.875	4394	

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	BURDITT 1-17
Doc ID	1585729

All Electric Logs Run

Dual induction
micro
porosity
Sonic

Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	BURDITT 1-17
Doc ID	1585729

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	32	290	60-40 Poz	220	2%gel 3%cc
Production	7.875	5.5	15.5	4439	H Long	90	-

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66834 **DST#: 1**

Test Start: 2021.04.20 @ 19:29:10

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:43:40
Time Test Ended: 02:19:40

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4300.00 ft (KB) To 4364.00 ft (KB) (TVD)
Total Depth: 4364.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

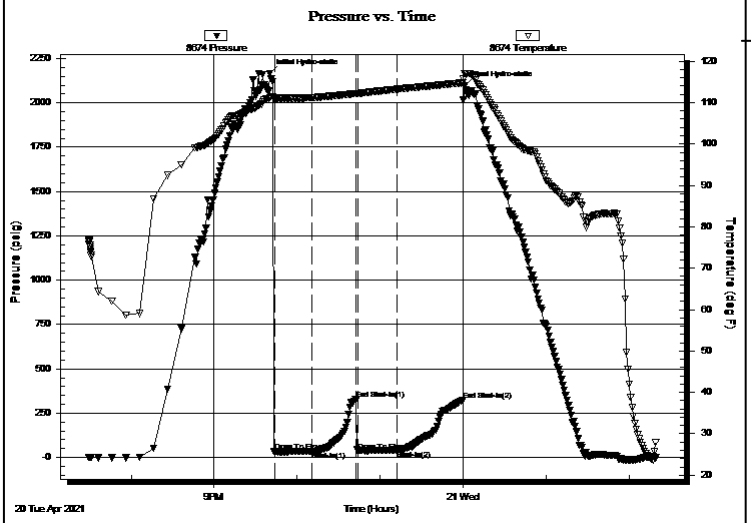
Reference Elevations: 2270.00 ft (KB)
2265.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 42.28 psig @ 4301.00 ft (KB)
Start Date: 2021.04.20 End Date: 2021.04.21
Start Time: 19:29:15 End Time: 02:19:39

Capacity: 8000.00 psig
Last Calib.: 2021.04.21
Time On Btm: 2021.04.20 @ 21:40:10
Time Off Btm: 2021.04.21 @ 00:01:10

TEST COMMENT: IF: 1/4 blow built to 3.
IS: No return.
FF: Surface blow built to 1 1/4.
FS: No return. 30-30-30-45



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.84	111.25	Initial Hydro-static
4	34.34	110.97	Open To Flow (1)
31	36.45	111.22	Shut-In(1)
63	329.79	112.19	End Shut-In(1)
64	38.08	112.21	Open To Flow (2)
92	42.28	113.23	Shut-In(2)
140	325.23	114.80	End Shut-In(2)
141	2095.55	117.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	ocm 10%o 90%m	0.49
5.00	free oil 100%o	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66834 **DST#: 1**

Test Start: 2021.04.20 @ 19:29:10

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:43:40
Time Test Ended: 02:19:40

Test Type: Conventional Bottom Hole (Initial)
Tester: Brandon Turley
Unit No: 79

Interval: 4300.00 ft (KB) To 4364.00 ft (KB) (TVD)
Total Depth: 4364.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

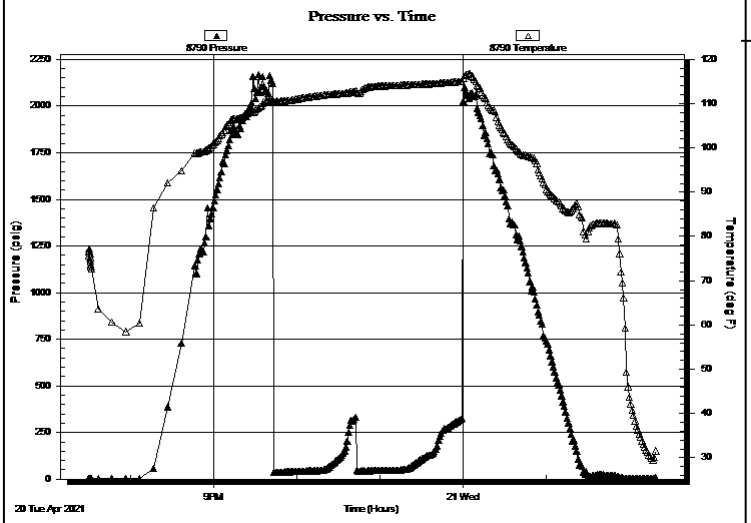
Reference Elevations: 2270.00 ft (KB)
2265.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4301.00 ft (KB)
Start Date: 2021.04.20 End Date: 2021.04.21
Start Time: 19:29:32 End Time: 02:19:56

Capacity: 8000.00 psig
Last Calib.: 2021.04.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4 blow built to 3.
IS: No return.
FF: Surface blow built to 1 1/4.
FS: No return. 30-30-30-45



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	ocm 10%o 90%m	0.49
5.00	free oil 100%o	0.07

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66834 **DST#: 1**

Test Start: 2021.04.20 @ 19:29:10

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	0 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

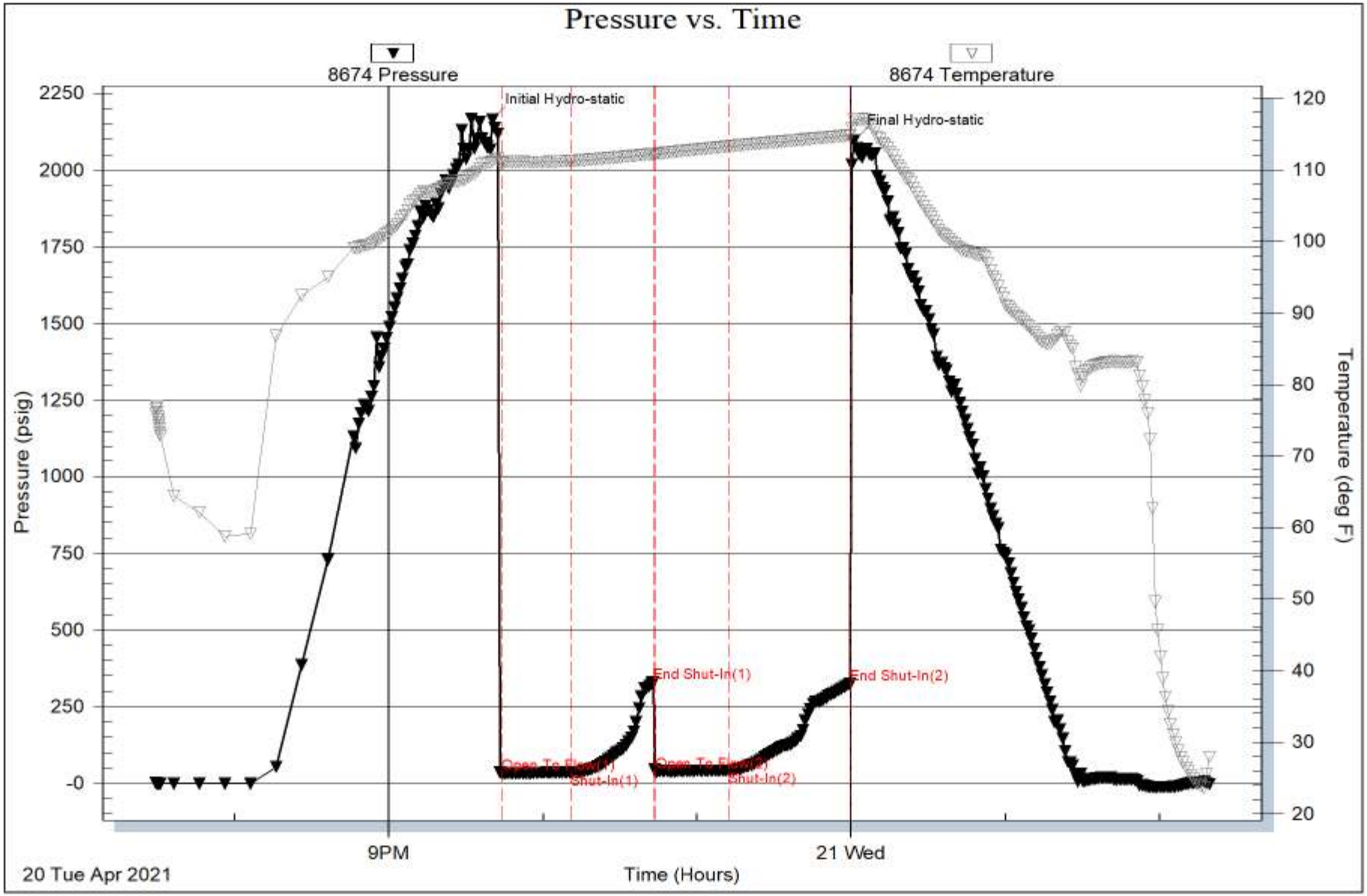
Recovery Table

Length ft	Description	Volume bbl
35.00	ocm 10%o 90%m	0.491
5.00	free oil 100%o	0.070

Total Length: 40.00 ft Total Volume: 0.561 bbl

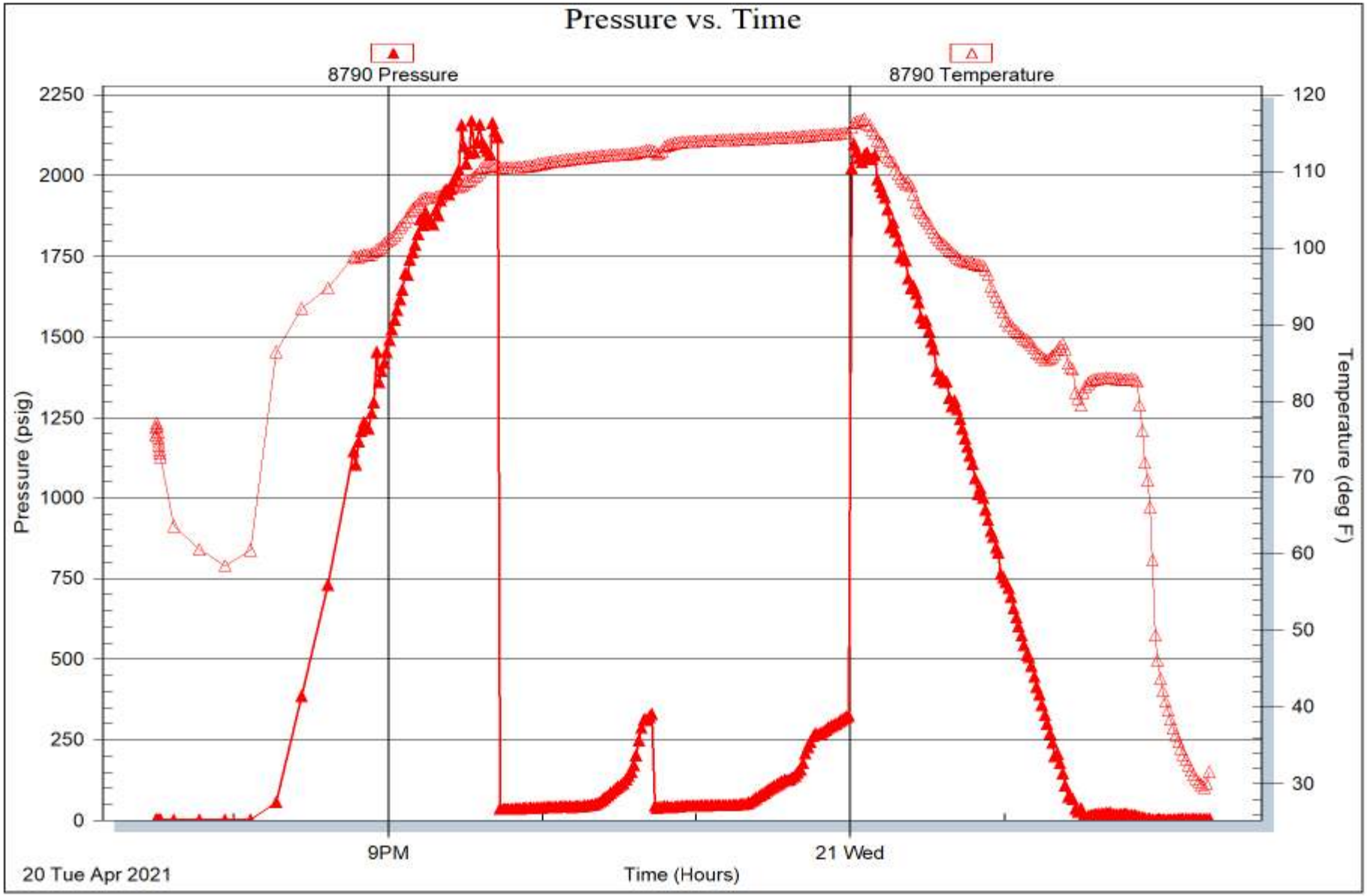
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8674 **Outside** Darrah Oil Company LLC Burditt 1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66834 Printed: 2021.04.21 @ 06:51:33

Serial #: 8790 **Inside** Darrah Oil Company LLC Burditt 1-17 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 66834 Printed: 2021.04.21 @ 06:51:33

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66835 **DST#: 2**

Test Start: 2021.04.21 @ 12:22:20

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:42:20
Time Test Ended: 20:43:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4298.00 ft (KB) To 4375.00 ft (KB) (TVD)
Total Depth: 4375.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

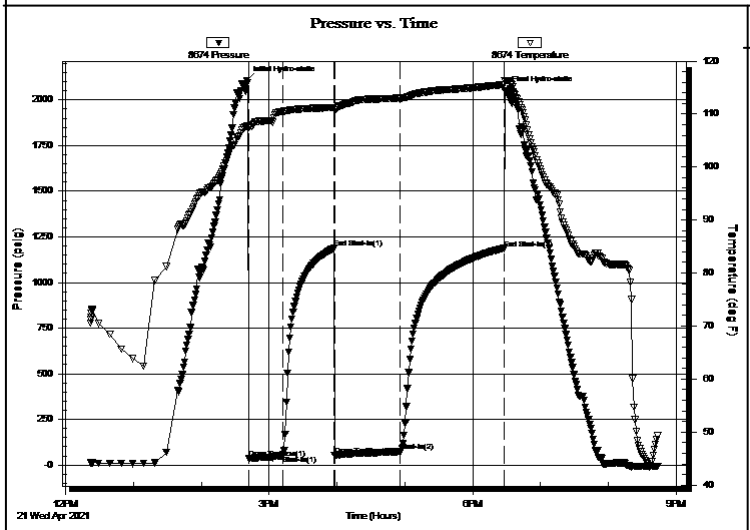
Reference Elevations: 2270.00 ft (KB)
2265.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8674 **Outside**

Press@RunDepth: 74.30 psig @ 4299.00 ft (KB)
Start Date: 2021.04.21 End Date: 2021.04.21
Start Time: 12:22:25 End Time: 20:43:49

Capacity: 8000.00 psig
Last Calib.: 2021.04.21
Time On Btm: 2021.04.21 @ 14:40:20
Time Off Btm: 2021.04.21 @ 18:28:20

TEST COMMENT: IF: 1/4 blow built to 4.
IS: No return.
FF: Surface blow built to 5.
FS: No return, 30-45-60-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.12	107.71	Initial Hydro-static
2	35.26	107.40	Open To Flow (1)
32	52.95	110.51	Shut-In(1)
77	1187.34	111.24	End Shut-In(1)
78	54.43	110.75	Open To Flow (2)
136	74.30	113.01	Shut-In(2)
227	1186.84	115.56	End Shut-In(2)
228	2051.92	116.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	ocm 10%o 90%m	0.88
32.00	gocm 5%g 25%o 70%m	0.45
31.00	go 10%g 90%o	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66835 **DST#: 2**

Test Start: 2021.04.21 @ 12:22:20

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:42:20
Time Test Ended: 20:43:50

Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79

Interval: 4298.00 ft (KB) To 4375.00 ft (KB) (TVD)
Total Depth: 4375.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

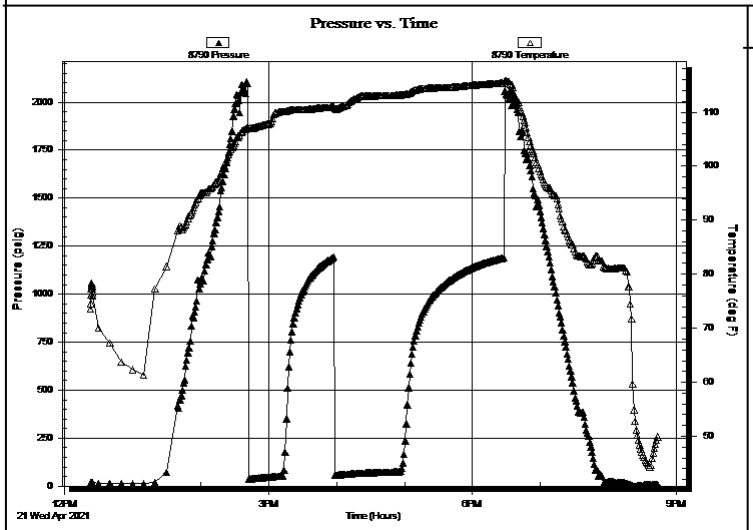
Reference Elevations: 2270.00 ft (KB)
2265.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8790 **Inside**

Press@RunDepth: psig @ 4299.00 ft (KB)
Start Date: 2021.04.21 End Date: 2021.04.21
Start Time: 12:22:45 End Time: 20:44:09

Capacity: 8000.00 psig
Last Calib.: 2021.04.21
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: 1/4 blow built to 4.
IS: No return.
FF: Surface blow built to 5.
FS: No return, 30-45-60-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	ocm 10%o 90%m	0.88
32.00	gocm 5%g 25%o 70%m	0.45
31.00	go 10%g 90%o	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil Company LLC

125 N Market Suite 1425
Wichita, Ks 67202

ATTN: Aaron Young

17-20s-23w Ness Ks

Burditt 1-17

Job Ticket: 66835 **DST#: 2**

Test Start: 2021.04.21 @ 12:22:20

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	33 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	0 ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.80 in³	Gas Cushion Type:			
Resistivity:	0.00 ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4200.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

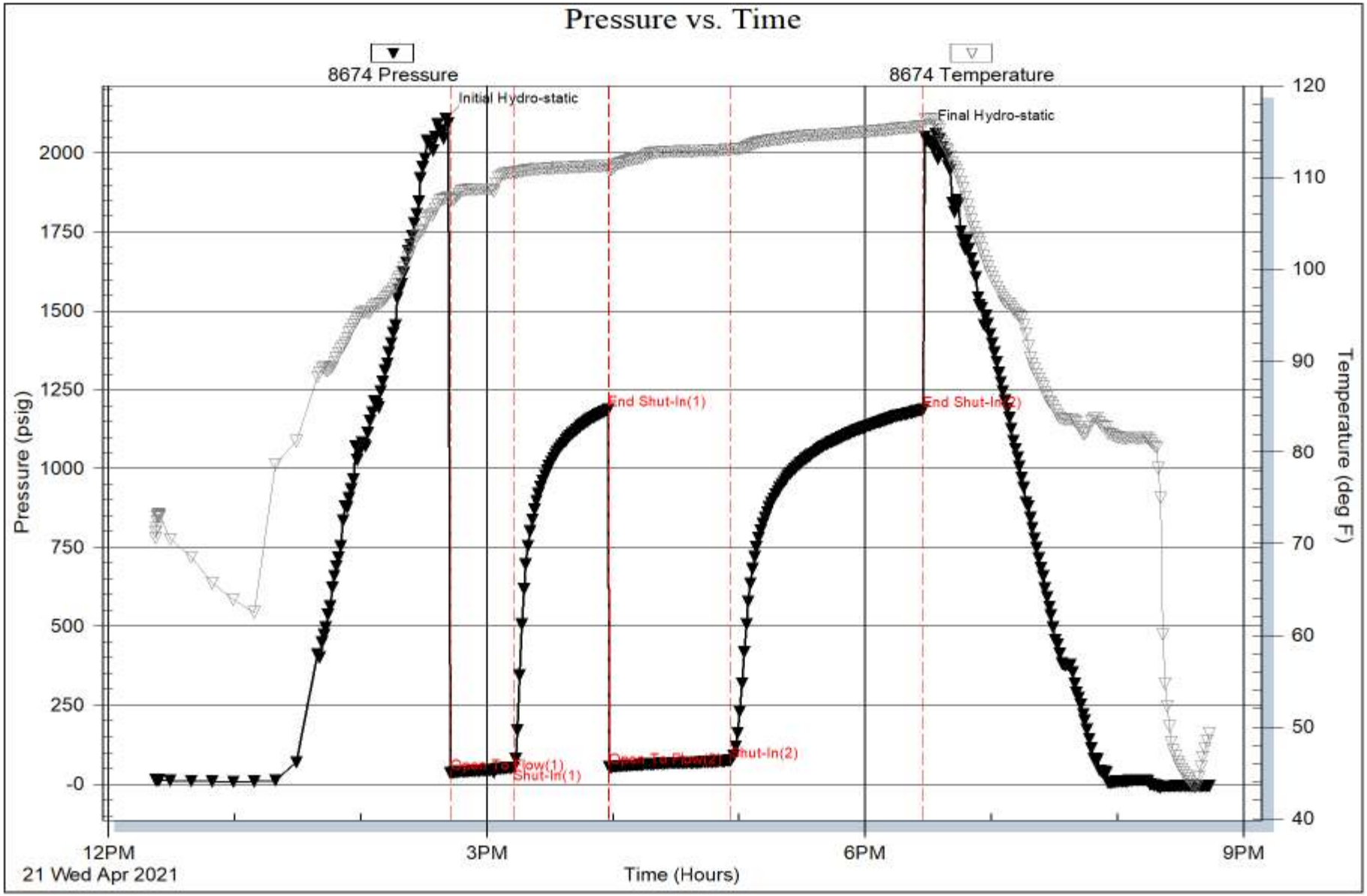
Recovery Table

Length ft	Description	Volume bbl
63.00	ocm 10%o 90%m	0.884
32.00	gocm 5%g 25%o 70%m	0.449
31.00	go 10%g 90%o	0.435

Total Length: 126.00 ft Total Volume: 1.768 bbl

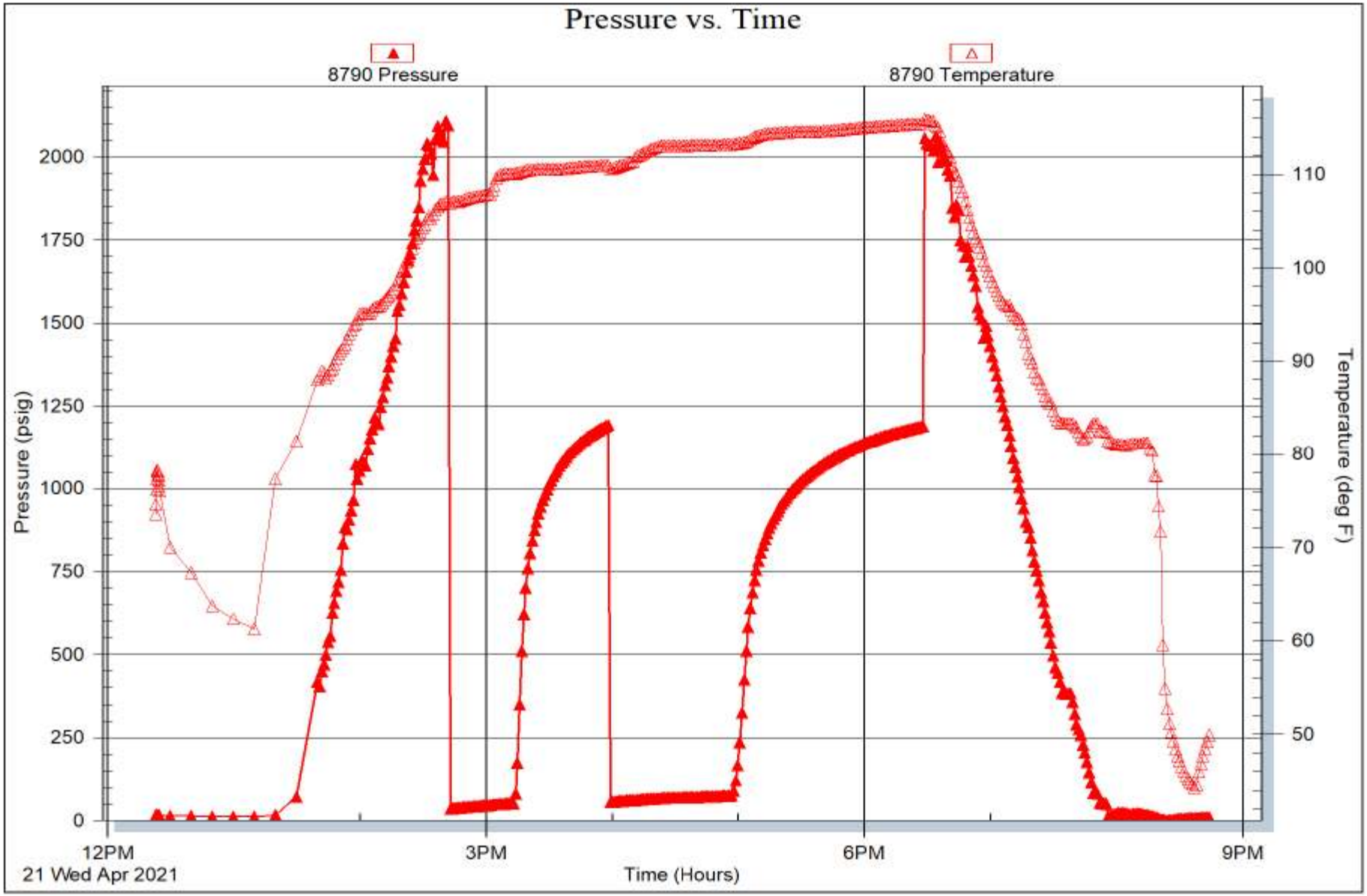
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 33@60=33

Serial #: 8674 **Outside** Darrah Oil Company LLC Burditt 1-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66835 Printed: 2021.04.21 @ 21:15:04

Serial #: 8790 **Inside** Darrah Oil Company LLC Burditt 1-17 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 66835 Printed: 2021.04.21 @ 21:15:04

POSTED

HURRICANE SERVICES INC

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:	4/23/2021
Invoice #:	0352588
Lease Name:	Burditt
Well #:	1-17 (New)
County:	Ness, Ks
Job Number:	WP1325
District:	Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	90.000	23.800	2,142.00
H-Plug	30.000	11.050	331.50
5 1/2" Floatshoe-Flapper AFU	1.000	318.750	318.75
5 1/2" LD Plug & Baffle	1.000	297.500	297.50
Cement baskets 5 1/2"	1.000	255.000	255.00
5 1/2" Port Collar	1.000	2,975.000	2,975.00
5 1/2" Turbolizers	5.000	68.000	340.00
Light Eq Mileage	10.000	1.700	17.00
Heavy Eq Mileage	10.000	3.400	34.00
Ton Mileage Minimum	1.000	255.000	255.00
Cement Pump Service	1.000	1,275.000	1,275.00
Cement Plug Container	1.000	212.500	212.50
Cement Data Acquisition	1.000	212.500	212.50
Mud flush	500.000	0.850	425.00

9308

PAID
CK. NO. 5772 DATE 4/22/21

Total 9,090.75

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.
SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Darrah Oil Company	Lease & Well #	Burditt 1-17			Date	4/23/2021
Service District	Pratt Kansas	County & State	Ness Kansas	Legals S/T/R	17-20s-23w	Job #	
Job Type	longstring	☑ PROD	☐ INJ ☐ SWD	New Well?	☑ YES ☐ No	Ticket #	wp1325

Equipment #	Driver
916	M Brungardt
176/521	G Mclamore
182/533	M Mattel

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☐ Lockout/Tagout	☐ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☐ Required Permits	☐ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☐ Muster Point/Medical Locations
☐ Hearing Protection	☐ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity			Net Amount
cp030	H-Long	sack	90.00			$2,142.00
cp055	H-Plug	sack	30.00			$331.50
fe145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00			$318.75
fe170	5 1/2" Latch Down Plug & Baffle	ea	1.00			$297.50
fe130	5 1/2" Cement Basket	ea	1.00			$255.00
fe165	5 1/2" Port Collar	ea	1.00			$2,975.00
fe125	5 1/2 Turbolizer	ea	5.00			$340.00
mi015	Light Equipment Mileage	mi	10.00			$17.00
mi010	Heavy Equipment Mileage	mi	10.00			$34.00
mi025	Ton Mileage - Minimum	each	1.00			$255.00
ce015	Cement Pump Service	ea	1.00			$1,275.00
ce050	Cement Plug Container	job	1.00			$212.50
ce035	Cement Data Acquisition	job	1.00			$212.50
cp170	Mud Flush	gal	500.00			$425.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

				Net:	$9,090.75
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.			Sale Tax:	$ -	
			Total:	$ 9,090.75	

HSI Representative: *Mark Brungardt*

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 fom the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

flv: 15-2021/01/25
mplv: 140-2021/04/21

CEMENT TREATMENT REPORT

Customer:	Darrah Oil Company	Well:	Burditt 1-17	Ticket:	wp1325
City, State:	Ness City Kansas	County:	Ness Kansas	Date:	4/23/2021
Field Rep:	Cooper Sealy	S-T-R:	17-20s-23w	Service:	longstring

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	4442 ft
Casing Size:	5 1/2 in
Casing Depth:	4432 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	102.6 bbls

Calculated Slurry - Lead	
Blend:	H Long
Weight:	15.0 ppg
Water / Sx:	6.0 gal / sx
Yield:	1.42 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	22.0 bbls
Total Sacks:	90 sx

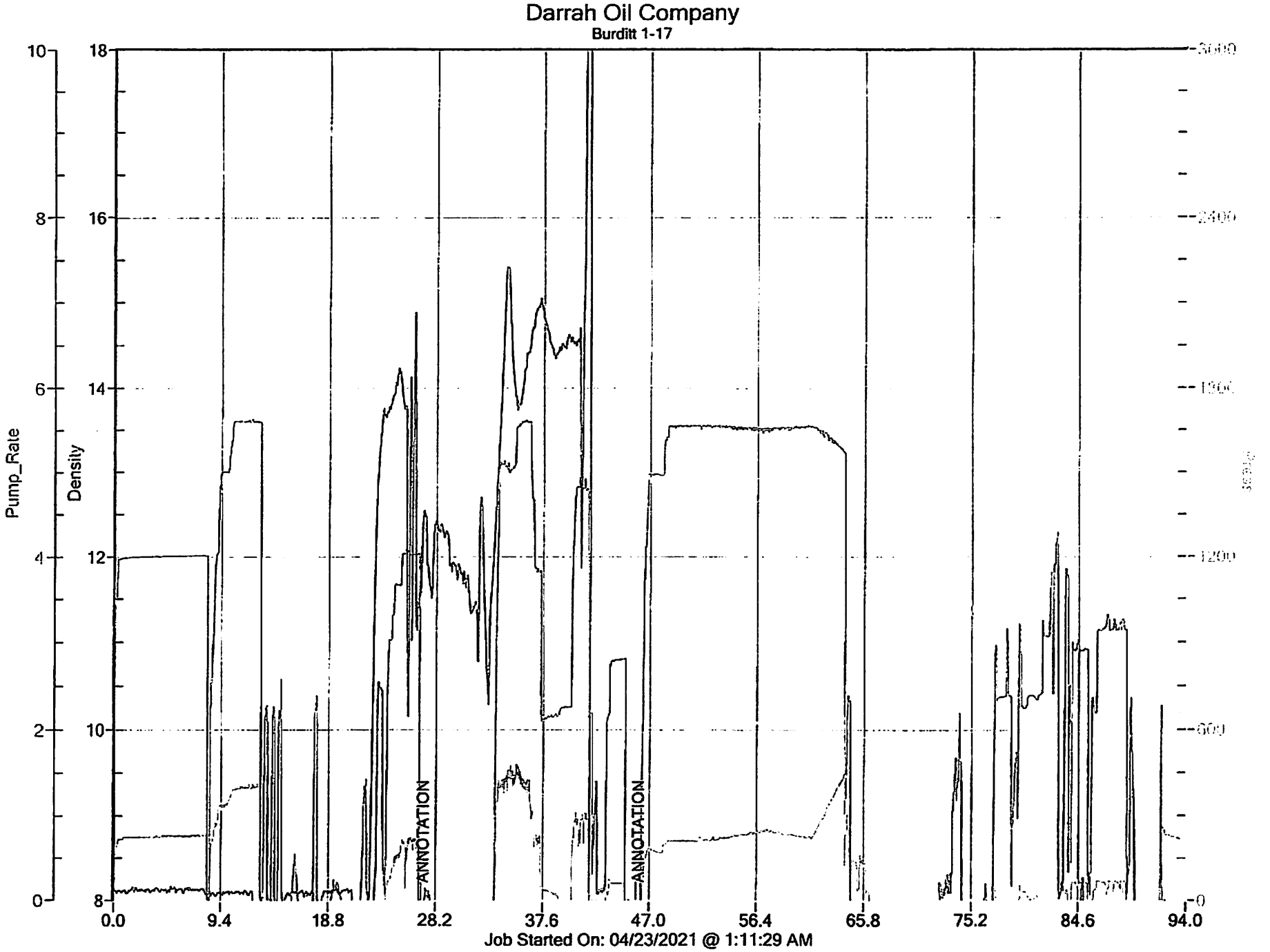
Calculated Slurry - Tail	
Blend:	H Plug
Weight:	13.7 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.43 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	7.6 bbls
Total Sacks:	30 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
11:30 PM			-	-	on location job and safety
11:45 PM				-	spot trucks and rig up
11:45 PM				-	start casing
				-	centrailzers 1,3,7,9,73
				-	basket 72
				-	port collar 72
				-	
2:05 AM				-	hook up to circulate on bottom
3:10 AM				-	pump flush
	5.0	350.0	5.0	5.0	fresh
	5.0	350.0	10.0	15.0	mud flush
	5.0	350.0	5.0	20.0	freash
3:20 AM			7.6		plug rat hle with 30 sack h plug
3:30 AM					start cement down hole
	5.0	450.0	22.0		mix 90 sacks h long
3:45 AM					cement in
					wash pump and lines
3:50 AM	5.5	240.0			start displacement
	5.5	260.0	50.0		
	5.5	300.0	85.0		lift pressure
	3.0		90.0		slow rate
4:15 AM			102.0		plug down and did hold

	CREW	UNIT
Cementer:	M Brungardt	916
Pump Operator:	G Mclamore	176/521
Bulk #1:	M Mattel	182/533
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.9 bpm	327 psi	377 bbls

ftv: 15-2021/01/25
mplv: 140-2021/04/21


Darrah Oil Company
Burditt 1-17
Pump_Rate
Density
10
8
6
4
2
0
18
16
14
12
10
8
3600
2400
1200
600
0
ANNOTATION
ANNOTATION
0.0
9.4
18.8
28.2
37.6
47.0
56.4
65.8
75.2
84.6
94.0
Job Started On: 04/23/2021 @ 1:11:29 AM

Geologic Report

Aaron L. Young

Drilling Time and Sample Log

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	**Burditt #1-17**		
API:	**15-135-26099**		
Location:	**Section 17 - T20S - R23W**		
License Number:	**35615**	**Region:**	**Ness Co., KS**
Spud Date:	**04 / 13 / 2021**	**Drilling Completed:**	**04 / 22 / 2021**
Surface Coordinates:	**477' FSL and 2241' FEL**		
	Approx. NE - SW - SW - SE		
Bottom Hole Coordinates:			
Ground Elevation (ft):	**2263'**	**K.B. Elevation (ft):**	**2270'**
Logged Interval (ft):	**3700' To: 4440'**	**Total Depth (ft):**	**4440'**
Formation:	**Mississippian**		
Type of Drilling Fluid:	**Chemical - Mud-Co**		

OPERATOR

Company: Darrah Oil Company, LLC
Address: 125 N Market Suite 1425
Wichita, KS 67202+1720

GEOLOGIST

Name: Aaron L. Young, M. S.
Company: Young Consulting LLC
Address: 100 S Main Ste 505
Wichita, KS 67202

General Info

CONTRACTOR: Pickrell Drilling, Rig #10

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	12-1/4	RR	15-15-15	290'	290'	7.5
2	7-7/8	JZHA20C	15-15-14	3537'	3247'	79.25
3	7-7/8	JZHA27	15-15-14	4440'	903'	47.5

SURVEYS: 290'-.75, 3537'-.75, 4364'-.75

GENERAL DRILLING AND PUMP INFORMATION:
Drilling with 35,000 - 38,000 lbs. on bit and approx 60 RPM.
Running 7.5 stands of collars; 447.88'
Pumping 60 strokes/min @ approx 800-850 psi at standpipe.

Daily Status

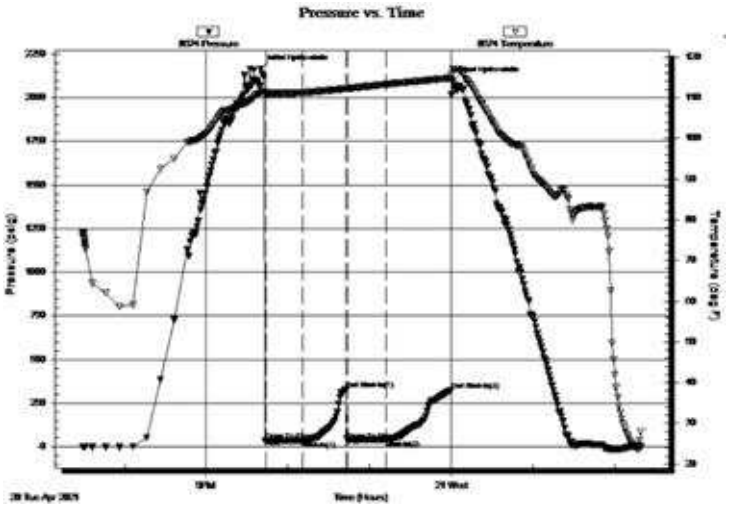
04/13/21 - Spud @ 2:30 pm, drilled well to 290'', ran 8 5/8" surface casing set @ 290' (tally 280'), cemented w/ 220 sx. 60-40 Pozmix, 2% gel, 3% CC, PD @ 3:00am
04/14/21 - WOC
04/15/21 - Drilling, @ 1530'
04/16/21 - Drilling, @ 2510'
04/17/21 - Drilling, @ 3120'
04/18/21 - Drilling, @ 3527'
04/19/21 - Drilling, @ 3952'
04/20/21 - Drilling, @ 4300', DST #1
04/21/21 - CFS @ 4375', DST #2
04/22/21 - TD well @ 4440' RTD, After reviewing logs and comparing to offset production, decision was made to run pipe. Only the bottom stage was cemented. Casing Report- Depth 4442'. Ran 114 jts used tested & drifted 5 1/2" 17# K-55 LTC set @ 4439' KB. Ran float shoe @ 4439', latch down @ 4421', centralizers @ 4421', 4346', 4268.85', and 4198'. Basket @ 1654', port collar @ 1619' & centralizer @ 1577'. CTCH 1.5 hrs thru 5.5" with Desco flush at 1.25 hr. Cmt with 90 sx H-long with good returns. Landed plug w/ 1400# - latch down held. Plugged RH, MH, end job. 2nd stage cement job pending completion results.

DST #1 MISSISSIPPIAN
4300' - 3364'
30"-30"-30"-45"

IF: 1/4" Blow built to 3"
ISI: No return
FF: Surface blow built to 1.25"
FSI: No return

Rec'd: 5' Free Oil (100% O), 35' OCM (10% O, 90% M)

SIP: 330-325#
FP: 34-36#, 38-42#
HP: 2165-2096#

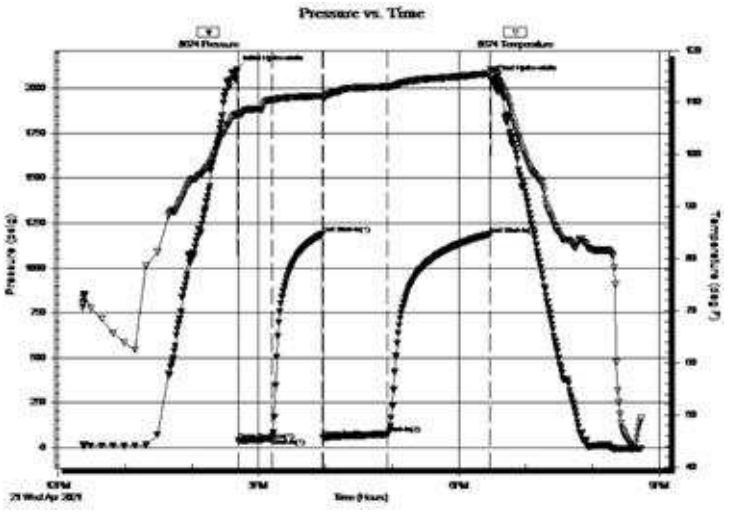


DST #2 MISSISSIPPIAN
4298' - 4375'
30"-45"-60"-90"

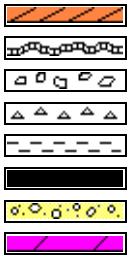
IF: 1/4" Blow built to 4"
ISI: No return
FF: Surface blow built to 5"
FSI: No return

Rec'd: 63' OCM (10% O, 90% M), 32' GOCM (5% G, 25% O, 70% M), 31' GO (10% G, 90% O)

SIP: 612-606#
FP: 72-198#, 222-424#
HP: 1789-1778#



ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Carb sh
Dol
Dtd
Gry sh
Sandylms
Shale
Sltstn
Shlyslts
Sltysh
Lms

ACCESSORIES

MINERAL

Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil
Sulphur
Tuff
Chlorite
Dol
Sand
Slty

FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomold

STRINGER

Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg
Carbsh
Clystn
Dol
Grysh
Gryslt
Lms
Sandylms
Sh
Sltstn

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY TYPE

Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING

Well
Moderate
Poor

ROUNDING

Rounded
Subrnd
Subang
Angular

OIL SHOWS

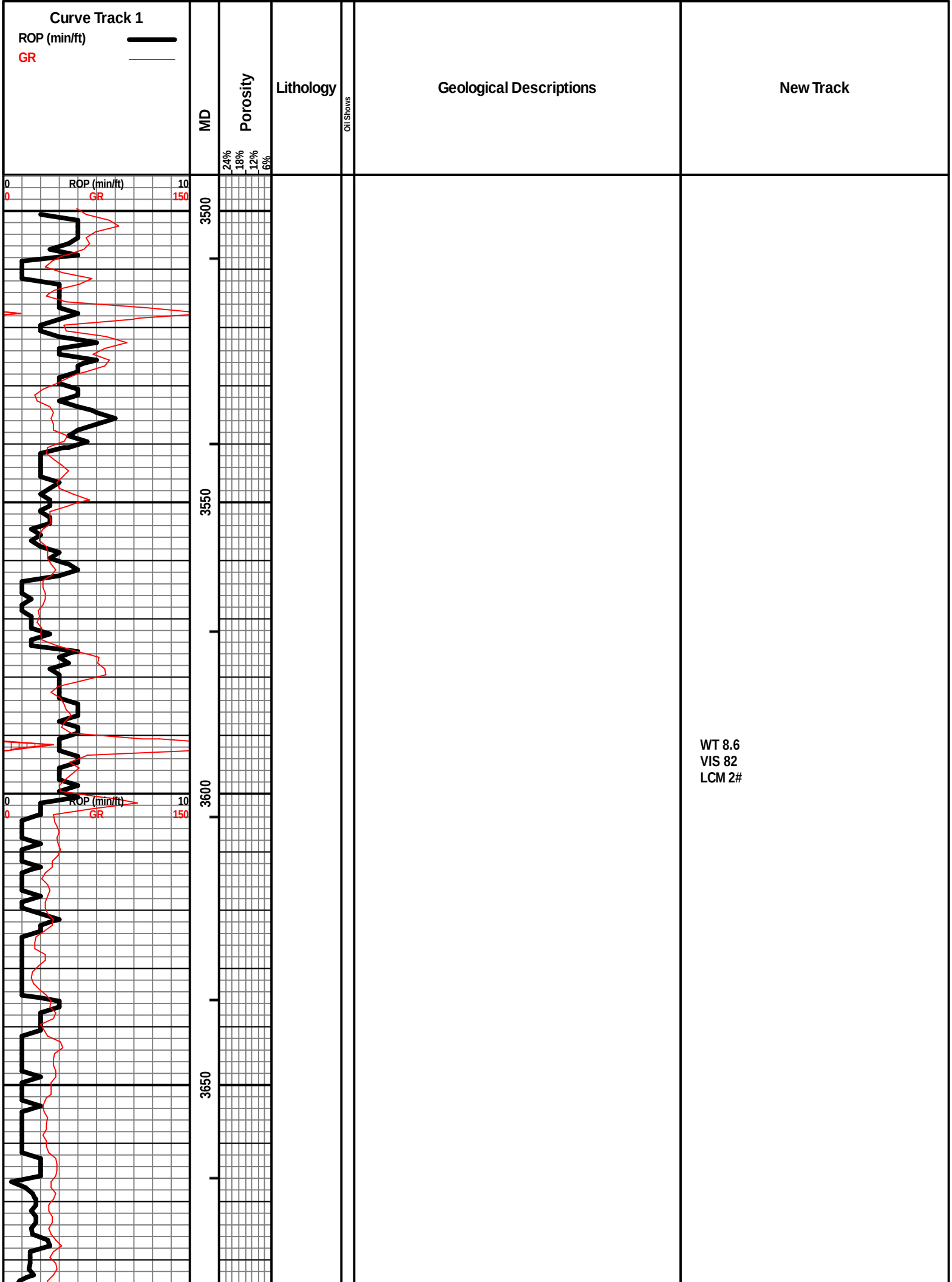
Even
Spotted
Ques
Dead
Gas show

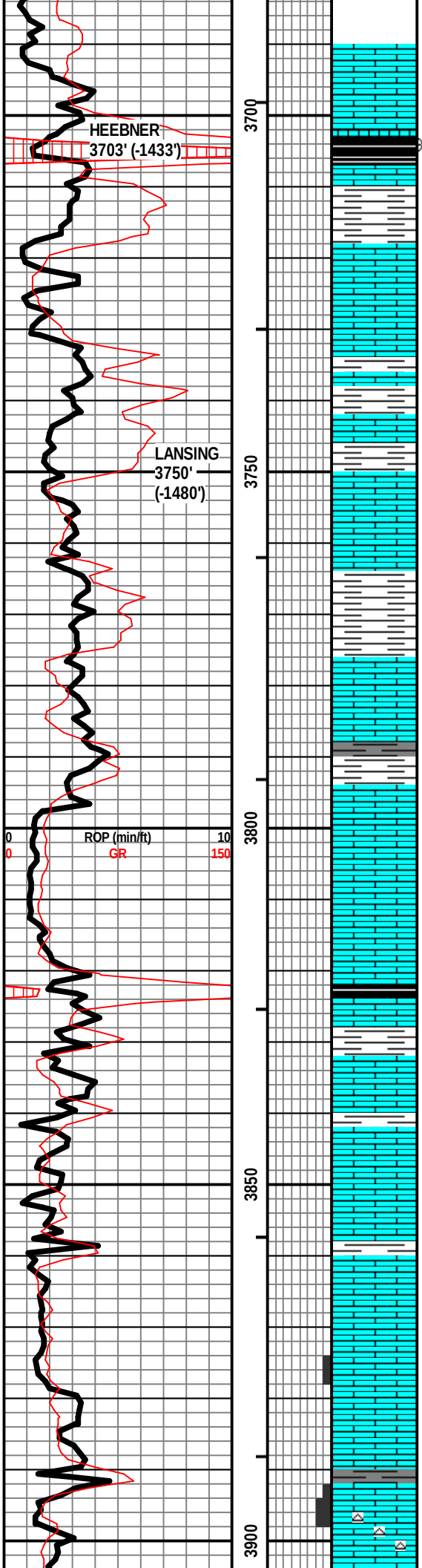
INTERVALS

Core
Dst
Dst

EVENTS

Rft
Sidewall
Conn


Curve Track 1
ROP (min/ft)
GR
MD
Porosity
24%
18%
12%
6%
Lithology
Oil Shows
Geological Descriptions
New Track
0
ROP (min/ft)
10
0
GR
150
3500
3550
3600
3650
WT 8.6
VIS 82
LCM 2#



LS - TAN / GY, F XLN, MOD DNS / DNS, FOSS

SH - BLK, CARB, F SHO OF GAS BUB IN PT, W/ LS - CRM / TAN / GY, F XLN, MOD DNS, FOSS, W/ LS - WHT, V CHKY

WT 8.2
VIS 63
LCM 2#

SH - DK GY / LT GY, W/ LS - TAN / GY, F / M XLN, DNS / FOSS

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - LT GRN / TURQ, WAXY IN PT, PYRITIC IN PT

SH - GRN / GY, W/ LS - CRM, F XLN, MOD DNS / DNS, FOSS IN PT

SH - GY / GRN / RD-ORNG, W/ LS - CRM / TAN, F/ VF XLN, MOD DNS / SUBCHKY, FOSS IN PT

LS - CRM / TAN, F / VF XLN, MOD DNS / SUBCHKY, FEW PIECES V CHKY, PRED FOSS, W/ SH - GY / GRN / RDISH-BRN / RD / BRN

LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS, W/ SH - GRN / GY / RD

WT 8.6
VIS 58
LCM 2#

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/ SH - LT GRN / GRN / RD, PYRITIC IN PT

LS - CRM / TAN, F XLN, MOD DNS, FOSS

SH - DK GY / BLK, SLI CARB, W/ LS - CRM, VF XLN, SUBCHKY / MOD DNS, CHKY IN PT, FOSS, W/ SH - GY / GRN

LS - CRM, F XLN, MOD DNS, FOSS, W/ SH - GY / GRN

LS - CRM / WHT IN PT, PRED MOD DNS / SUBCHKY, CHKY IN PT, FOSS

SH - BLK, CARB, W/ LS - CRM, VF / F XLN, SUBCHKY

LS - CRM / TAN / GY, F / M XLN, MOD DNS / DNS, FOSS, W/ SH - GRN / GY / DK GY

LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/ SH - GY / RDISH-ORNG / GRN

LS - CRM / TAN IN PT, F XLN, MOD DNS / DNS, ABUND FOSS IN PT, W/ SH - GRN / GY

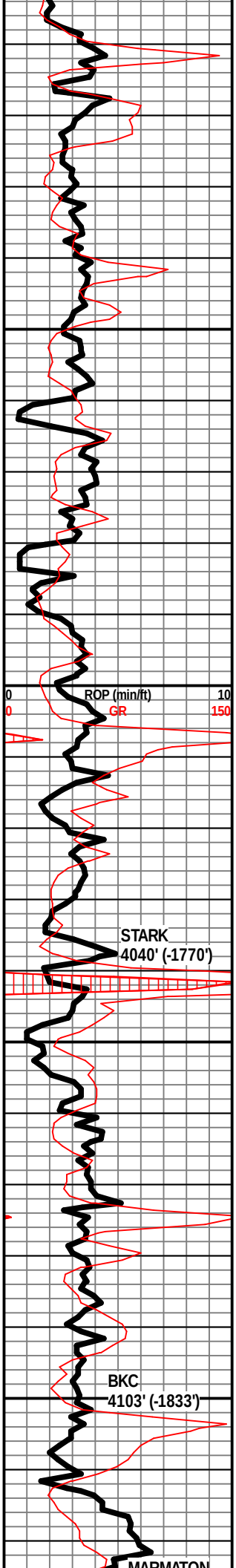
LS - CRM, VF XLN, SUBCHKY / CHKY, FOSS, W/ SH - GY / GRN

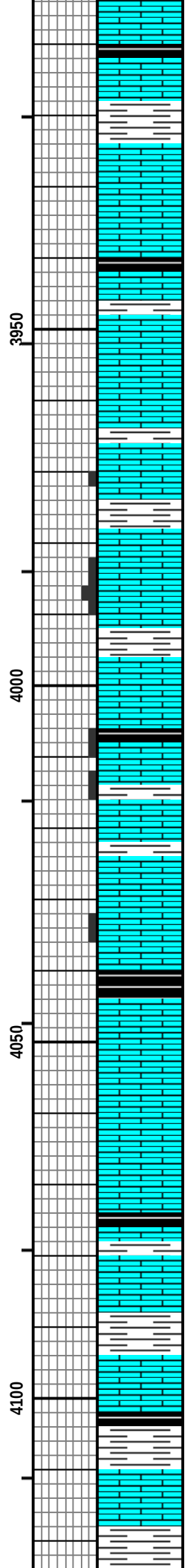
LS - CRM / TAN, F XLN, PRED MOD DNS, FEW PIECES W/ P / F INTERXLN POR, NS, NO ODOR

WT 9.0
VIS 57
LCM 1-2#

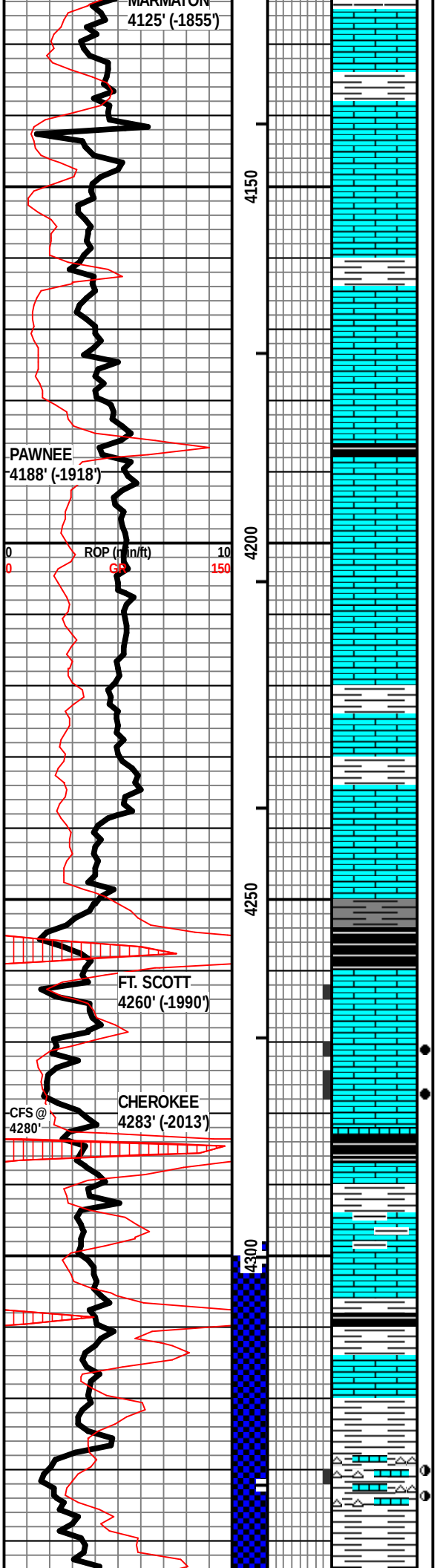
LS - CRM / TAN, PRED MOD DNS, SUBCHKY IN PT, FOSS, W/ SH - DK GY

LS - CRM / TAN, F XLN, MOD DNS, P / F INTERXLN POR IN FEW PIECES, NS, NO ODOR, FOSS





SH - BLK, CARB, W/ LS - CRM, VF / F XLN, SUBCHKY / MOD DNS, FOSS IN PT	
LS - CRM / TAN, F XLN MOD DNS / SUBCHKY, CHKY IN PT, FOSS IN PT,	
SH - BLK, CARB, W/ SH - GRN / GY, W/ LS - DK TAN / TAN, F / M XLN, DNS / MOD DNS, FOSS, W/ LS - WHT / CRM, VF / F XLN, SUBCHKY / CHKY	WT 9.0 VIS 55 LCM 1#
LS - TAN / GY / CRM, F / M XLN, MOD DNS / DNS, FOSS	WT 8.9 VIS 58 LCM 2#
LS - CRM, F XLN, P / F OOLMOLDIC POR, NS, NO ODOR	
SH - GY / GRN / RD, W/ LS - CRM, F XLN, MOD DNS / DNS, P / F OOLMOLDIC POR IN FEW PIECES, NS, NO ODOR	
SH - DK GRN / DK GY, BLK, CARB IN PT, W/ LS - CRM / TAN, F / M XLN, MOD DNS / DNS, FOSS IN PT	
SH - BLK, CAR, W/ SH - GRN / GY, W/ LS - CRM / TAN, F XLN, DNS, FOSS, P OOLMOLDIC POR IN PT, NS, NO ODOR, W/ SCAT LS - WHT / CRM, VF XLN, SUBCHKY / CHKY	
SH - GY / GRN / RD, W/ LS - CRM / WHT, VF XLN, SUBCHKY / CHKY	
LS - TAN / CRM, F XLN, MOD DNS / DNS, P OOLMOLDIC IN PT, NS, NO ODOR	WT 8.9 VIS 55 LCM 2#
SH - BLK, CARB, W/ LS - CRM / WHT, VF XLN, SUBCHKY / CHKY	
LS - CRM / WHT, VF XLN, SUBCHKY / CHKY, W/ LS - TAN, F XLN, MOD DNS, ABUND FOSS	
SH - BLK, CARB, W/ LS - TAN / GY, F / M XLN, MOD DNS / DNS, FOSS	
SH - GY / GRN / RD, W/ LS - CRM / TAN, VF XLN, MOD DNS / SUBCHKY	WT 8.9 VIS 53 LCM 2#
SH - GY / GRN / RD, W/ LS - CRM / TAN, F XLN, MOD DSN / SUBCHKY, FOSS	
LS - CRM / TAN / DK TAN, M XLN, DNS, FOSS IN PT, W/ SH - BLK, CARB, W/ SH - DY GY / GRN / RD	
LS - TAN / GY, M XLN, DNS / V DNS, FOSS IN PT, W/ SH - GY / GRN / RD	WT 8.9 VIS 51 LCM 1.5#



LS - GY / TAN, M / F XLN, DNS / MOD DNS, FOSS, W/ SH - GY / GRN / RD

LS - CRM / WHT / TAN, VF / F XLN, SUBCHKY / MOD DNS, W/ SH - GY / GRN

LS - CRM / TAN, F XLN, MOD DNS, FOSS IN PT, W/ SH - LT GRN

LS - CRM, VF / F XLN, SUBCHKY, W/ SCAT V CHKY PIECES

LS - TAN / CRM, F XLN, MOD DNS, FOSS IN PT, W/ SH - GRN / GY / RD

LS - CRM / TAN, F / VF XLN, PRED DNS, MOD DNS / SUBCHKY IN PT

WT 8.9
VIS 55
LCM 1.5#

SH - BLK, CARB, W/ LS - CRM / TAN, F / M XLN, MOD DNS / DNS, FOSS

LS - GY / TAN / CRM, F / VF XLN, MOD DNS / DNS, SUBCHKY IN PT

LS - GY, F / M XLN, MOD DNS / DNS

WT 9.1
VIS 53

LS - GY / TAN / CRM, F XLN / VF XLN IN PT, PRED MOD DNS / DNS, SUBCHKY IN PT

LS - GY / TAN / CRM, F XLN / VF XLN IN PT, GY LS IS MOD DNS / DNS, CRM IS SUBCHKY, W/ SH - GY / GRN / RD

SH - GY / GRN / RD, W/ LS - CRM, F / VF / XLN, SUBCHKY

LS - CRM / TAN / GY, F XLN, MOD DNS / DNS, FOSS IN PT

SH - BLK, CARB, W/ SH - RD / GRN / GY / RD-ORNG

LS - TAN, F / M XLN, DNS, FOSS

LS - TAN / CRM, F / M XLN, PRED MOD DNS / DNS, VP INTERXLN POR IN PT, VSSFO WHEN BROKEN, BRI YEL-GRN FLUOR IN SHOW ROCKS, V FAINT ODOR WHEN BROKEN

WT 9.3
VIS 59

SH - BLK, CARB, W/ LS - CRM / TAN, F XLN, MOD DNS / DNS, FOSS IN PT, PYRITIC IN PT, W/ SH - RD / GRN

WT 9.3+
VIS 57
LCM TRC

SH - GY / GRN / RD, W/ LS - TAN / GRN, F XLN, MOD DNS / DNS, ARG

WT 9.3
VIS 59
LCM 1#

SH- GY / GRN / RD, W/ SH - BLK, CARB IN PT

DST #1 MISSISSIPPIAN
4300' - 3364'
30"-30"-30"-45"

IF: 1/4" Blow built to 3"
ISI: No return
FF: Surface blow built to 1.25"
FSI: No return

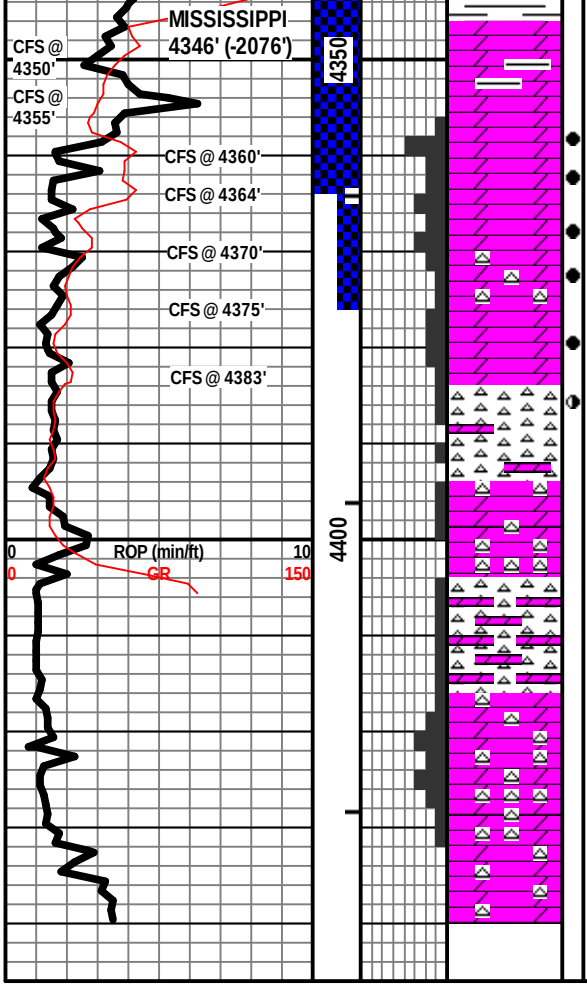
LS - CRM / TAN / GY IN PT, F XLN, MOD DNS / DNS, W/ SH - RD / GRN / GY

SH - GY / GRN / RD / RD-ORNG, W/ LS - TAN / GY, F XLN, MOD DNS / DNS

SH - GY / GRN / RD, W/ LS IN PT, VF XLN, SUBCHKY / CHKY. VP INTERXLN POR IN PT, VSSFO, W/ SCAT CHT - TAN / CLR, TRANLUCNT / SLI OPAQ, FRSH, V SLI WEATH POR IN PT, VSSFO

Rec'd: 5' Free Oil (100% O), 35' OCM (10% O, 90% M)

SH - GRN / RD / GY



SH - GRN / GY / RD

SH - GRN, W/ LS - TAN / GRN, F XLN, MOD DNS / DNS, ARG W/ GRN SH

4360' CIRC DOLO - TAN / BRN, F XLN, FOSS IN PT, F / G INTERXLN & INTERPART POR, VUG & MOLDIC POR IN PT, PRED SUCR, COMPSAT, GSFO, F ODOR, BRI YEL-GRN FLUOR

4364' CIRC DOLO - TAN / BRN, F XLN, FOSS, F INTERXLN POR, INTERPART & VUG POR IN PT, GSFO, V G CUPODOR, BRI YEL-GRN FLUOR, HARD TO BRAKE, DNS MATRIX ROCK, 50% TITE, BLEEDING OIL, BLEEDING GAS IN PT

4370' CIRC----------->>>>>>>

4375' CIRC DOLO - TAN / GY / WHT IN PT, F XLN, INTERBEDDED FRSH CHT NOD, 30% DNS, 70% P INTERXLN POR, GSFO, BLEEDING OIL IN PT, BRI YEL-GRN FLUOR

4383' CIRC----------->>>>>>>

CHT - WHT, PRED OPAQ / SLI TRANSLUCNT, PRED FRSH, SCAT PIECES W/ P WEATH POR, VSSFO, MOD YEL-GRN FLUOR

CHT - WHT, OPAQ / SLI TRANSLUCNT IN PT, FRSH, W/ SCAT DOLO - WHT, VF / F XLN, P INTERXLN POR, NS

DOLO - WHT, F XLN, P / F INTERXLN POR, NS, W/ ABUND CHT - WHT - OPAQ / SLI TRANSLUCNT, FRSH, NS

CHT - WHT, PRED OPAQ, FRSH, NO VIS POR, W/ ABUND OF SCAT DOLO - WHT, F / VF XLN, P / F INTERXLN POR, NS

DOLO - WHT, F XLN, P / F INTERXLN POR, G INTERXLN & VUG POR IN PT, W/ ABUND SCAT CHT - WHT, OPAQ / SLI TRANSLUCNT, FRSH, NO VIS POR, NS

RTD 4440'

SIP: 330-325#
FP: 34-36#, 38-42#
HP: 2165-2096#

4370' CIRCULATING SAMPLES
DOLO - TAN / BRN, F XLN, 50% F / G INTERXLN POR, SUCROSIC IN PT, COMP SAT, 50% TITE, P INTERXLN & MOLDIC POR, GSFO, V G CUP ODOR, BRI YEL-GRN FLUOR

4383' CIRCULATING SAMPLES
DOLO - TAN, F XLN, FOSS, 33% F / G INTERXLN POR, VUG POR IN PT, GSFO, COMP SAT, 33% HAS RAINBOW SHEEN INSTEAD OF OIL DROPLETS, 33% DNS W/ P INTERXLN POR, G CUP ODOR, BRI YEL-GRN FLUOR

DST #2 MISSISSIPPIAN
4298' - 4375'
30"-45"-60"-90"

IF: 1/4" Blow built to 4"
ISI: No return
FF: Surface blow built to 5"
FSI: No return

Rec'd: 63' OCM (10% O, 90% M), 32' GOCM (5% G, 25% O, 70% M), 31' GO (10% G, 90% O)

SIP: 1187-1187#
FP: 35-53#, 54-74#
HP: 2107-2052#

WT 9.3
VIS 57
LCM 1#

3613A Y Road
Madison, KS 66860
Ph: 620-437-2661
Fax: 620-437-2881

HURRICANE SERVICES INC

104 Prairie Plaza Parkway
Garnett, KS 66032
Ph: 785-448-3100
Fax: 785-448-3102

FED ID# 48-1214033
MC ID# 165290

Remit to: Hurricane Services, Inc.
250 N. Water, Suite 200
Wichita, KS 67202

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

Invoice Date:	4/14/2021
Invoice #:	0352392
Lease Name:	BURDITT
Well #:	1-17 (NEW)
County	NESS, KS
JOB#	WP1298

Date/Description	HRS/QTY	Rate	Total
SURFACE			
CEMENT PUMP SERVICE	1	637.50	637.50
HEAVY EQ MILEAGE	10	3.40	34.00
LIGHT EQ MILEAGE	10	1.70	17.00
TON MILEAGE MINIMUM	1	255.00	255.00
CALIUM CHLORIDE	570	0.64	363.38
CELLO FLAKE	56	1.49	83.30
CEMENT POXMIX 60/40	220	11.05	2,431.00

	Net Invoice	3,821.18
Sales Tax		0.00
	Total	3,821.18

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

Hurricane Services, Inc.
250 N. Water St., Suite #200
Wichita, KS 67202

Customer	Darrah Oil Company	Lease & Well #	Burditt # 1-17			Date	4/14/2021
Service District	Oakley KS	County & State	Ness KS	Legals S/T/R	16-20-23W	Job #	
Job Type	Surface	☑ PROD ☐ INJ ☐ SWD		New Well?	☑ YES ☐ No	Ticket #	WP1298

Equipment #	Driver
73	Josh
208	John
180/250	Jimmie

Job Safety Analysis - A Discussion of Hazards & Safety Procedures

☑ Hard hat	☑ Gloves	☑ Lockout/Tagout	☑ Warning Signs & Flagging
☑ H2S Monitor	☑ Eye Protection	☑ Required Permits	☑ Fall Protection
☑ Safety Footwear	☐ Respiratory Protection	☑ Slip/Trip/Fall Hazards	☐ Specific Job Sequence/Expectations
☑ FRC/Protective Clothing	☐ Additional Chemical/Acid PPE	☑ Overhead Hazards	☑ Muster Point/Medical Locations
☑ Hearing Protection	☑ Fire Extinguisher	☐ Additional concerns or issues noted below	

Comments

Product/ Service Code	Description	Unit of Measure	Quantity	List Price/Unit	Gross Amount	Item Discount	Net Amount
C010	Cement Pump Service	ea	1.00				$637.50
M010	Heavy Equipment Mileage	mi	10.00				$34.00
M015	Light Equipment Mileage	mi	10.00				$17.00
M025	Ton Mileage - Minimum	each	1.00				$255.00
CP100	Calcium Chloride	lb	570.00				$363.38
CP120	Cello-flake	lb	56.00				$83.30
CP070	60/40/2 Pozmix	sack	220.00				$2,431.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?

Based on this job, how likely is it you would recommend HSI to a colleague?

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely

		Gross:	$4,495.50	Net:	$3,821.18
	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.				Sale Tax:	$ -
				Total:	$ 3,821.18

HSI Representative: *Josh Moster*

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 fom 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 properly 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 informaiton in determining taxable services.

X_____ **CUSTOMER AUTHORIZATION SIGNATURE**

ftv: 15-2021/01/25
mplv: 135-2021/04/12

CEMENT TREATMENT REPORT

Customer:	Darrah Oil Company	Well:	Burditt # 1-17	Ticket:	WP1298
City, State:	Oakley Ks	County:	Ness KS	Date:	4/14/2021
Field Rep:		S-T-R:	16-20-23W	Service:	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	290 ft
Casing Size:	8 5/8 in
Casing Depth:	290 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	14.4 bbls

Calculated Slurry - Lead	
Blend:	60/40/2 POZMIX
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	290 ft
Annular Volume:	21.3 bbls
Excess:	
Total Slurry:	47.4 bbls
Total Sacks:	220 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
1145P			-	-	GOT TO LOCATION
1150P				-	SAFTEY MEETING
1155P				-	RIGGED UP TRUCKS
1225A				-	WAITED ON RIG TO RUN PIPE
230A				-	LANDED PIPE
241A	3.0	50.0	5.0	5.0	PUMPED H20 AHEAD
243A	5.2	200.0	47.4	52.4	PUMPED 220 SKS OF 60/40/2 POZMIX
252A	6.0	250.0	14.4	66.8	DISPLACED WITH H20
255A				66.8	PLUG DOWN
257A				66.8	WASHED UP PUMP TRUCK
315A				66.8	RIGGED DOWN TRUCKS
330A					OFF LOCATION

CREW		UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Jimmie	180/250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	167 psi	67 bbls

ftv: 15-2021/01/25
mplv: 135-2021/04/12

SWIFT Services, Inc.

P. O. Box 466
Ness City, KS 67560
Off: 785-798-2300

Invoice

DATE	INVOICE #
5/26/2021	33540

BILL TO

Darrah Oil Company LLC
125 N. Market St. Ste 1425
Wichita, KS 67202

- Acidizing
- Cement
- Tool Rental

16 of 17 ?

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Burditt	Ness	HSI	Oil	Development	Cement Port Collar	Blaine

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	10	Miles	5.00	50.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars	1	Job	1,400.00	1,400.00
330	Swift Multi-Density Standard (MIDCON II)	150	Sacks	17.00	2,550.00T
276	Flocele	50	Lb(s)	3.00	150.00T
290	D-Air	2	Gallon(s)	42.00	84.00T
581D	Service Charge Cement	200	Sacks	1.85	370.00
582D	Minimum Drayage Charge	1	Each	250.00	250.00
275	Cotton Seed Hulls	2	Sack(s)	35.00	70.00T
	Subtotal				4,924.00
	Sales Tax Ness County 9208 (P)			6.50%	185.51

We Appreciate Your Business!

Total $5,109.51

SWIFT Services, Inc.

CHARGE TO: Darrah Oil Co
ADDRESS
CITY, STATE, ZIP CODE

TICKET 33540

PAGE 1 OF 1

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. Ness City KS	#1	Burdett	Ness	KS	Ness City	26 Aug 21	
2. Hays KS	TICKET TYPE ☐ SERVICE ☐ SALES	CONTRACTOR HSI	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	
3.	WELL TYPE	WELL CATEGORY	JOB PURPOSE		WELL PERMIT NO.	WELL LOCATION	
4.	oil	Development	cement port collar				
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC	ACCT	DF	DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
575		2			MILEAGE TRK 113	10	mi			5 00	50 00
576D		2			Pump Charge (port collar	1	ea			1400 00	1400 00
330		1			SMD cement	150	sk			17 00	2550 00
276		1			Flocele	50	lb			3 00	150 00
290		2			D-AIR	2	gal			42 00	84 00
581		1			Service charge	200	sk			1 85	370 00
582		1			Drayage (min)	1	ea			250 00	250 00
275		1			cotton seed hulls	2	sk			35 00	70 00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED | TIME SIGNED ☐ A.M. ☑ P.M. 1830

REMIT PAYMENT TO:

SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			

ARE YOU SATISFIED WITH OUR SERVICE? ☐ YES ☐ NO

☐ CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	4924 00
TAX NESS	185 51
TOTAL	5109 51

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR | APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE: 26 MAY 21 | PAGE NO.: 1

CUSTOMER: Darrah Oil | WELL NO.: #1 | LEASE: Burdett | JOB TYPE: cement port collar | TICKET NO.: 33540

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
								200 sk SMD cement w/ ¼# flocele
								2⅞ x 5½ RBP 9111'
	1430							on loc TRK 113
								2⅞ to 4051'
			95					95 bbl to fill hole
	1440					1000	1000	holding 1000 psi
	1454		12					spot 1 sk sand
								pull tubing up to find port collar
								open port collar 1642'
		3				300		inj rate 3 bpm @ 300
	1612	3				100		MIX SMD ¼# flocele @ 11.2 ppg
			3					- circulation to pit -
		4				200		
		4	75			450		
			83					→ cement to surface ←
								150 sk mixed { 155½ to pit }
			8					bbl displacement
	~~1700~~							~~Run 8 joints~~
								close port collar
						1000	1000	test to 1000 psi - held
	1700							Run 8 joints
	1715							Reverse hole clean
								- 2 cement flags -
	1720							Run tubing to RBP
	1756		40					Reverse sand from plug
								BACK up
	1825							job complete
								Wayne, Blaine, AUSTIN & ISAAC

CEMENT TREATMENT REPORT

Customer:	Darrah Oil Company	**Well:**	Burditt # 1-17	**Ticket:**	WP1298
City, State:	Oakley Ks	**County:**	Ness KS	**Date:**	4/14/2021
Field Rep:		**S-T-R:**	16-20-23W	**Service:**	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	290 ft
Casing Size:	8 5/8 in
Casing Depth:	290 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	14.4 bbls

Calculated Slurry - Lead	
Blend:	60/40/2 POZMIX
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	290 ft
Annular Volume:	21.3 bbls
Excess:	
Total Slurry:	47.4 bbls
Total Sacks:	220 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
1145P			-	-	GOT TO LOCATION
1150P				-	SAFTEY MEETING
1155P				-	RIGGED UP TRUCKS
1225A				-	WAITED ON RIG TO RUN PIPE
230A				-	LANDED PIPE
241A	3.0	50.0	5.0	5.0	PUMPED H20 AHEAD
243A	5.2	200.0	47.4	52.4	PUMPED 220 SKS OF 60/40/2 POZMIX
252A	6.0	250.0	14.4	66.8	DISPLACED WITH H20
255A				66.8	PLUG DOWN
257A				66.8	WASHED UP PUMP TRUCK
315A				66.8	RIGGED DOWN TRUCKS
330A					OFF LOCATION
					Circulate 4 bbls Cement to pit

CREW		UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Jimmie	180/250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	167 psi	67 bbls

ftv: 15-2021/01/25
mplv: 135-2021/04/12

CEMENT TREATMENT REPORT

Customer:	Darrah Oil Company	**Well:**	Burditt # 1-17	**Ticket:**	WP1298
City, State:	Oakley Ks	**County:**	Ness KS	**Date:**	4/14/2021
Field Rep:		**S-T-R:**	16-20-23W	**Service:**	Surface

Downhole Information	
Hole Size:	12.25 in
Hole Depth:	290 ft
Casing Size:	8 5/8 in
Casing Depth:	290 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	14.4 bbls

Calculated Slurry - Lead	
Blend:	60/40/2 POZMIX
Weight:	14.8 ppg
Water / Sx:	5.2 gal / sx
Yield:	1.21 ft^3 / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	290 ft
Annular Volume:	21.3 bbls
Excess:	
Total Slurry:	47.4 bbls
Total Sacks:	220 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
1145P			-	-	GOT TO LOCATION
1150P				-	SAFTEY MEETING
1155P				-	RIGGED UP TRUCKS
1225A				-	WAITED ON RIG TO RUN PIPE
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241A	3.0	50.0	5.0	5.0	PUMPED H20 AHEAD
243A	5.2	200.0	47.4	52.4	PUMPED 220 SKS OF 60/40/2 POZMIX
252A	6.0	250.0	14.4	66.8	DISPLACED WITH H20
255A				66.8	PLUG DOWN
257A				66.8	WASHED UP PUMP TRUCK
315A				66.8	RIGGED DOWN TRUCKS
330A					OFF LOCATION
					Circulate 4 bbls Cement to pit

CREW		UNIT
Cementer:	Josh	73
Pump Operator:	John	208
Bulk #1:	Jimmie	180/250
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.7 bpm	167 psi	67 bbls

ftv: 15-2021/01/25
mplv: 135-2021/04/12