

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Darrah Oil Company, LLC
Well Name	HARMS 1-4
Doc ID	1689209

All Electric Logs Run

Porosity
Micro
Dual induction
Sonic



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: 7/30/2022
 Invoice #: 0362196
 Lease Name: Harms
 Well #: 1-4 (New)
 County: Logan, Ks
 Job Number: WP3154
 District: Pratt

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	170.000	33.600	5,712.00
H-Plug	50.000	13.440	672.00
Cement Friction Reducer	64.000	7.680	491.52
5 1/2" Floatshoe-Flapper AFU	1.000	360.000	360.00
5 1/2" LD Plug & Baffle	1.000	336.000	336.00
Cement baskets 5 1/2"	1.000	288.000	288.00
5 1/2" Port Collar	1.000	3,360.000	3,360.00
5 1/2" Turbolizers	6.000	120.000	720.00
Mud flush	500.000	0.960	480.00
Liquid KCL Substitute 2	5.000	19.200	96.00
Light Eq Mileage	100.000	2.000	200.00
Heavy Eq Mileage	200.000	4.000	800.00
Ton Mileage	1,010.000	1.500	1,515.00
Cement Blending & Mixing	220.000	1.344	295.68
Depth Charge 4001'-5000'	1.000	2,400.000	2,400.00
Cement Data Acquisition	1.000	240.000	240.00
Cement Plug Container	1.000	240.000	240.00
Service Supervisor	1.000	275.000	275.00

Total 18,481.20

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.

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Customer	Darrah Oil Company LLC	Lease & Well #	Harms 1-4	Date	7/30/2022
Service District	Pratt Kansas	County & State	Logan.Kansas	Legals S/T/R	1-14s-32w
Job Type	Longstring	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
					wp 3154

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
916	M Brungardt	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
179/521	A Clifton	<input type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
182/533	F Contreras	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments
 port collar at 2410ft

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
cp030	H-Long	sack	170.00	\$5,712.00
cp055	H-Plug	sack	50.00	\$672.00
cp133	Cement Friction Reducer	lb	64.00	\$491.52
fe145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$360.00
fe170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$336.00
fe130	5 1/2" Cement Basket	ea	1.00	\$288.00
fe165	5 1/2" Port Collar	ea	1.00	\$3,360.00
fe135	5 1/2" Turbolizer	ea	6.00	\$720.00
cp170	Mud Flush	gal	500.00	\$480.00
af056	Liquid KCL Substitute 2	gal	5.00	\$96.00
m015	Light Equipment Mileage	mi	100.00	\$200.00
m010	Heavy Equipment Mileage	mi	200.00	\$800.00
m020	Ton Mileage	tm	1,010.00	\$1,515.00
c060	Cement Blending & Mixing Service	sack	220.00	\$295.68
d015	Depth Charge: 4001'-5000'	job	1.00	\$2,400.00
c035	Cement Data Acquisition	job	1.00	\$240.00
c050	Cement Plug Container	job	1.00	\$240.00
r061	Service Supervisor	day	1.00	\$275.00

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

Total Taxable				\$ -	Tax Rate:		Net:	\$18,481.20			
Based on this job, how likely is it you would recommend HSI to a colleague?				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:	\$ -	Total:	\$ 18,481.20		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Unlikely	1	2	3	4	5	6	7	8	9	10	Extremely Likely
HSI Representative:								<i>Mark Brungardt</i>			

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X _____

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

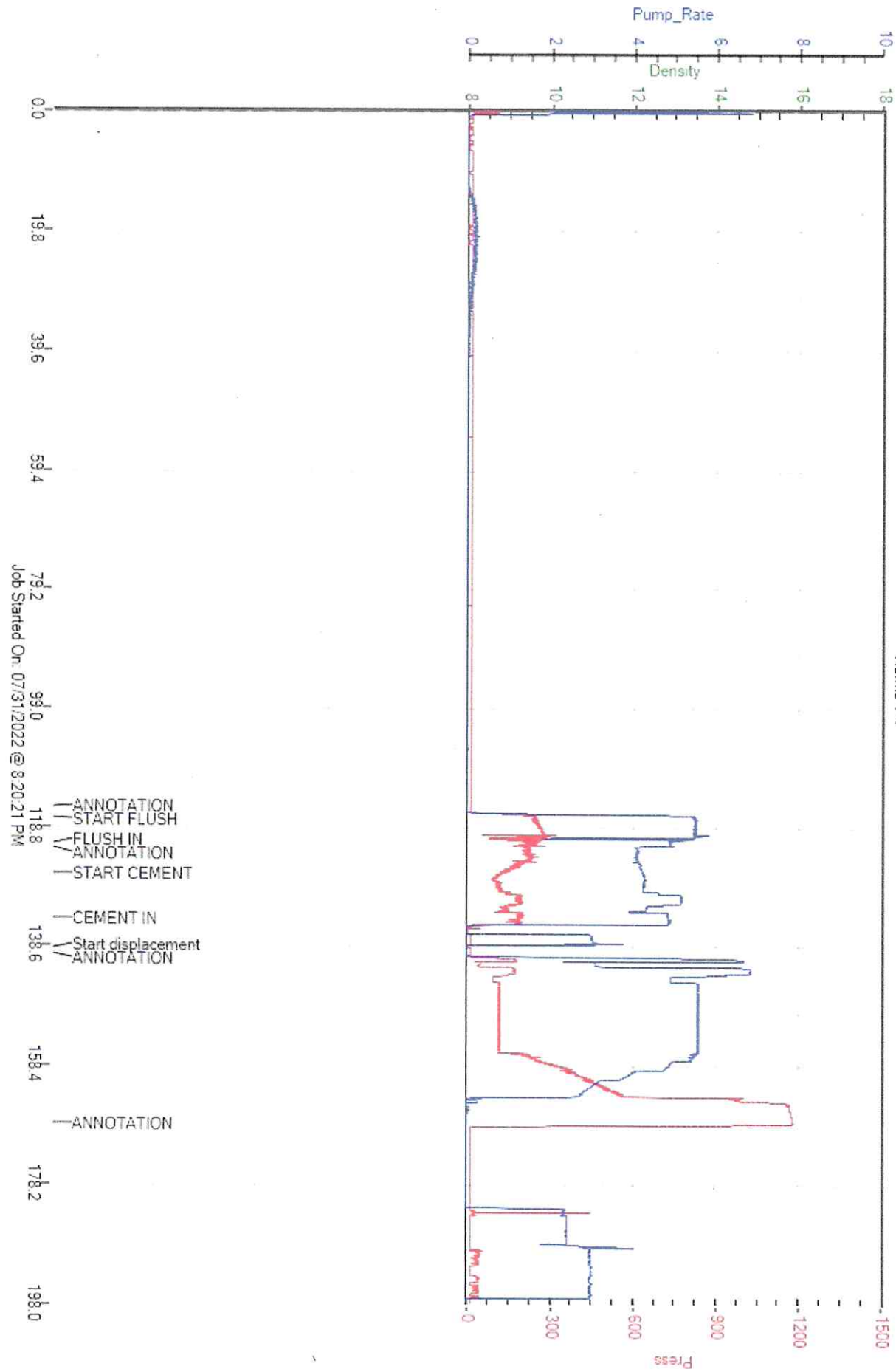
Customer:	Darrah Oil Company LLC	Well:	Harms 1-4	Ticket:	wp 3154
City, State:	Scott City Kansas	County:	Logan.Kansas	Date:	7/30/2022
Field Rep:	Cooper Sealy	S-T-R:	1-14s-32w	Service:	Longstring

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H - Long	Blend:	H -Plug
Hole Depth:	4675 ft	Weight:	15.0 ppg	Weight:	13.7 ppg
Casing Size:	5 1/2 in	Water / Sx:	6.0 gal / sx	Water / Sx:	6.9 gal / sx
Casing Depth:	4669 ft	Yield:	1.42 ft ³ / sx	Yield:	1.43 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:	35%	Excess:	
Displacement:	112.8 bbls	Total Slurry:	43.0 bbls	Total Slurry:	12.7 bbls
		Total Sacks:	170 sx	Total Sacks:	50 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:00 PM			-	-	on location job and safety
5:10 PM					spot trucks and rig up
					turbolizers 1,3,5,7,9,11
					basket 53
					port collar,,,,,2410ft joint 54
6:16 PM					start casing in the hole
8:30 PM					casing on bottom and circulate
11:20 PM					start flush
	5.0	250.0	5.0	5.0	fresh water
	5.0	250.0	12.0	17.0	mud flush
	5.0	250.0	5.0		fresh water
12:15 AM	2.0	-	12.0		plug rat role 30 sacks plug mouse hole 20 sacks
11:30 PM					start cement
	4.0	100.0	43.0		mix 170 sacks
11:40 PM					cement in and shut down
					wash pump and lines and release plug
11:45 PM					START DISPLACEMENT
	6.0	120.0	20.0		
	6.0	120.0	30.0		
	6.0	120.0	40.0		
	6.0	120.0	50.0		
	6.0	120.0	60.0		

CREW		UNIT	SUMMARY		
Cementer:	M Brungardt	916	Average Rate	Average Pressure	Total Fluid
Pump Operator:	A Clifton	179/521	5.1 bpm	145 psi	277 bbls
Bulk #1:	F Contreras	182/533			
Bulk #2:					

Darrah oil company llc
Harms 1-4





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: 7/22/2022
 Invoice #: 0362077
 Lease Name: Harms
 Well #: 1-4 (New)
 County: Logan, Ks
 Job Number: WP3122
 District: Oakley

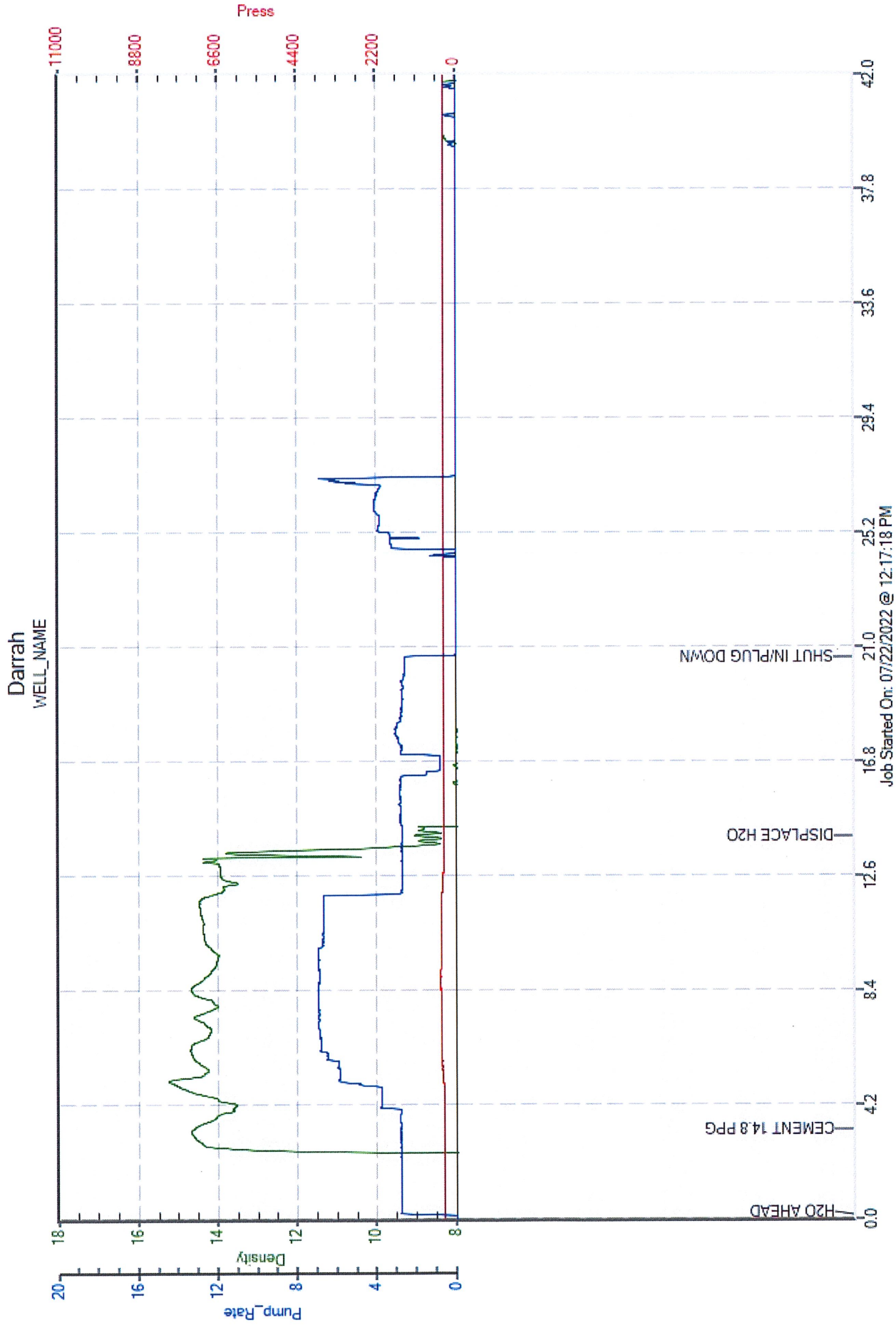
Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	200.000	21.600	4,320.00
Light Eq Mileage	40.000	2.000	80.00
Heavy Eq Mileage	80.000	4.000	320.00
Ton Mileage	376.000	1.500	564.00
Depth Charge 0'-500'	1.000	960.000	960.00
Cement Blending & Mixing	200.000	1.344	268.80
Service Supervisor	1.000	264.000	264.00
Cement Data Acquisition	1.000	240.000	240.00

Total 7,016.80

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WE APPRECIATE YOUR BUSINESS!



**Darrah Oil Company, LLC
Harms No. 1-4
330' FSL and 1980' FEL
NW SE SW SE
Sec 1 T14S R32W
Logan County, Kansas**

Geological Report
by

Macklin M. Armstrong

Scale 1:240 Imperial

Well Name:	Harms No. 1-4	
Surface Location:	Sec 1 T14S R32W	
Bottom Location:	330' FSL and 1980' FEL	
API:	15-109-21652	
License Number:	35615	
Spud Date:	7/22/2022	Time: 7:00 AM
Region:	Logan County, Kansas	
Drilling Completed:	7/29/2022	Time: 6:02 AM
Surface Coordinates:	204332 & 1196134	
Bottom Hole Coordinates:	204332 & 1196134	
Ground Elevation:	2875.00ft	
K.B. Elevation:	2884.00ft	
Logged Interval:	3400.00ft	To: 4672.00ft
Total Depth:	4675.00ft	
Formation:	Mississippi	
Drilling Fluid Type:	Chemical/Fresh Water Gel	

OPERATOR

Company:	Darrah Oil Company, LLC	
Address:	125 N Market, Suite 1015 Wichita, Kansas 67202	
Contact Geologist:	John Hastings	
Contact Phone Nbr:	316-219-3390	
Well Name:	Harms No. 1-4	
Location:	Sec 1 T14S R32W	
API:	15-109-21652	
Pool:	Oil	Field: Unnamed

CONTRACTOR

Contractor: Duke Drilling Company
 Rig #: 4
 Rig Type: mud rotary
 Spud Date: 7/22/2022
 TD Date: 7/29/2022
 Rig Release: 7/31/2022

Time: 7:00 AM
 Time: 6:02 AM
 Time: 4:15 AM

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -100.823341
 Latitude: 38.859966
 N/S Co-ord: 204332
 E/W Co-ord: 1196134

ELEVATIONS

K.B. Elevation: 2884.00ft
 K.B. to Ground: 9.00ft
 Ground Elevation: 2875.00ft

NOTES

Date	Depth at 7 am	Activity
7-22-22	MIRU	Spud at 7:00 am
7-23-22	1010	Drilling
7-24-22	2592	Working on Tight Connection
7-25-22	3280	Drilling
7-26-22	3715	Drilling
7-27-22	4135	Drilling
7-28-22	4472	CFS
7-29-22	4675	Cir for Log
7-30-22	4675	TIH after DST 1
7-30-22	4675	Set 5 1/2"

Surface Casing: 8 5/8" 20# at 229'
 Production Casing: 5 1/2" 20# at 4615'

Deviation: 229' - 1/4°
 3400' - 3/4°
 4675' - 1 1/4°

Bit Record:	Make	Size	Type	Depth In	Depth Out	Hours
	JZ	12 1/4"	PL615	Surface	229	1
	JZ	7 7/8"	HCS616	229	3400	39 3/4
	JZ	7 7/8"	HA527	3400	4675	57

Drill Stem Tests:

DST No. 1 4565 to 4675 Morrow Sand
 30-60-45-90

Recovery: 150' GIP
 50' GO (20%G, 80%O - 32 deg gravity)
 100' GOCM (30%G, 20%O, 50%M)

IHP 2431 FHP 2307
 IFP 219-96 FFP 59-92
 ISIP 1030 FSIP 846
 Temp 126°

Formation	Sample	E-Log	Datum	Well 1	Well 2	Well 3
Anhydrite	2380	2376	+508	-17	-19	-8
Base/Anhydrite	2403	2398	+486	-19	-21	-10
Stotler	3516	3512	-658	-32	-22	-24








Stotler	3540	3542	-658	-32	-22	-24
Topeka	3686	3680	-796	-33	-23	-26
Heebner	3910	3906	-1022	-35	-27	-31
Lansing	3952	3946	-1062	-37	-27	-30
B Zone	3987	3982	-1098	-36	-23	-27
D Zone	4034	4028	-1144	-34	-25	-29
Muncie Creek	4112	4106	-1222	-41	-29	-37
H Zone	4130	4123	-1239	-40	-31	-36
I Zone	4156	4151	-1267	-41	-30	-37
J Zone	4180	4174	-1290	-36	-31	-33
Stark	4199	4194	-1310	-39	-32	-35
Hushpuckney	4235	4229	-1345	-39	-31	-35
Base/Kansas City	4284	4280	-1396	-38	-29	-37
Marmaton	4342	4338	-1454	-52	-40	-46
Pawnee	4417	4403	-1519	-48	-36	-39
Fort Scott	4442	4436	-1552	-50	-37	-41
Cherokee Shale	4462	4457	-1573	-51	-38	-41
Lower Cherokee Shale	4492	4488	-1604	-51	-37	-41
Johnson Zone	4540	4534	-1650	-52	-39	-43
Morrow Shale	4575	4570	-1686	-60	-47	-48
Morrow Sand	4618	4616	-1732	-82	-71	-65
Mississippi	4634		-1750	-68	-43	-68
Total Depth	4675	4672	-1788			

Well 1: Pioneer Resources Dirks No. 5 NW SW NW NE Sec 12 T14S R32W
 Well 2: Pioneer Resources Dirks No. 2 SE NE NE Sesc 12 T14S R32W
 Well 3: Raymond Oil Company Steckel/Darney No. 4 NW NE SE SW Sec 1 T14S R32W

Pipe ws set to further test the Morrow Sand.

Respectfully submitted,
 Macklin M. Armstrong

ROCK TYPES

 Lmst fw7>	 shale, gry	 shale, red	 Ss
 shale, grn	 Carbon Sh	 Shcol	

ACCESSORIES

MINERAL

- Sandy
- △ Chert White

FOSSIL

- F Fossils < 20%
- ⊕ Oolite
- ⊕ Oomoldic

TEXTURE

- C Chalky

OTHER SYMBOLS

DST

-  DST Int
-  DST alt
-  Core

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1		Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Comment
ROP (min/ft)	Gamma (API)						
0	10						
0	150						
6	16						
1:240 Imperial Darrah Oil Company, LLC Harms No. 1-4							
Mud Program: Mudco: Chemical Gel/Premix							

330' FSL and 1980' FEL
 NW SE SW SE
 Sec 1 T14S R32W
 Logan County, Kansas

GL 2875 KB 2884

Sample Cuttings:
 Kansas Geological Survey
 Well Sample Library

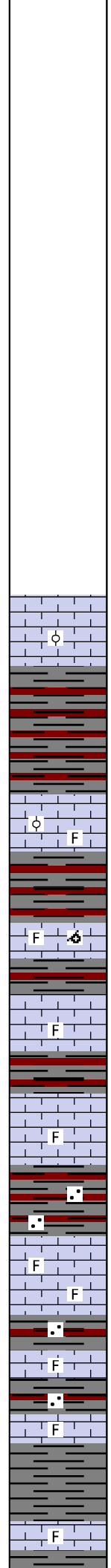
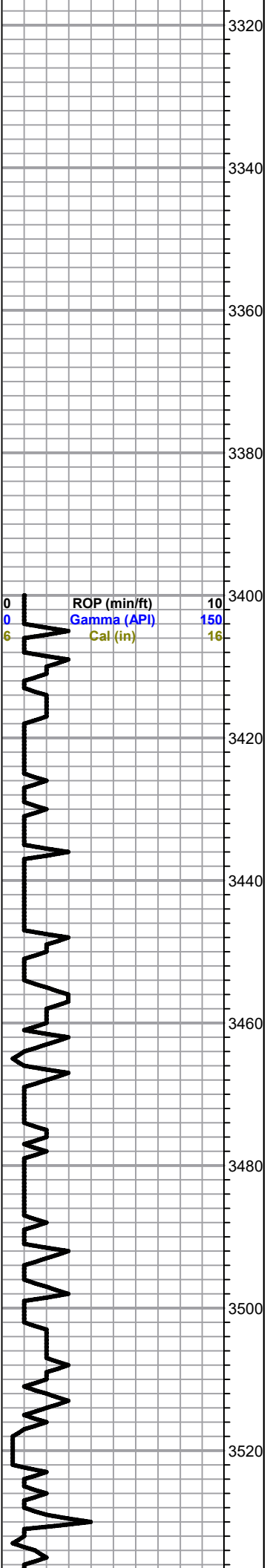
Testing: Trilobite Testing

Electric Logs: ELI Wireline
 Services
 DIL
 CNL/CDL
 MEL
 SONIC

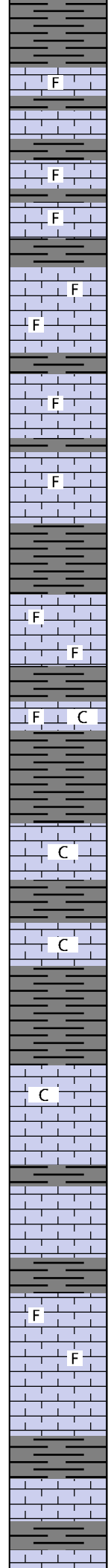
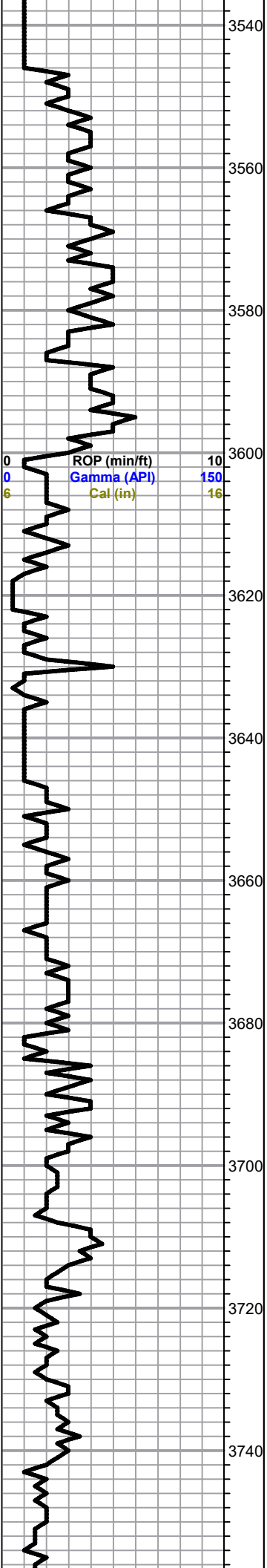
Deviation:
 229' - 1/4°
 3400' - 3/4°
 4675' - 1 1/4°

Pipe strap at 3400'. Short
 0.04' to board..

Mud Data 3400'
 1:15 am on 7-25-22
 Wt 8.6 Vis 55 WL 6.8
 pH 11.5 Chl 1500 Sol 2.0
 YP 15 LCM 2.0



Ls-gry fxln mhd no por sm Ls-gry fxln mhd with blk ool
 Sh-gry/dk gry/red
 Sh-AA
 Ls- lt gry fxln mhd no por sm Ls-gry fxln mhd with blk ool
 Sh-gry/red
 Ls-lt gty/gry fxln mdh fos oom no por
 Sh-gry/red
 Ls-gry/lt gry fxln mhd sl fos no por
 Sh-gry/red
 Ls-gry/lt gry fxln mhd sl fos no por
 Sh-gry/dk gry sm red sl sdy
 Ls-lt gr/tan fxln mhd sl fos no por
 Sh-gry/dk gry sm red sl sdy
 Ls-gry fxln mhd sl fos no por
 Sh-gry/dk gry sl sdy
 Ls-lt gry/tan f/mxln mhd/dns sl fos no por
 Sh-gry/dk gry
 Ls-lt gry tan f/mxln mhd fos no por



Sh-gry/dk gry

----- **Stotler 3546 -662** -----

Ls-tan/lt gry fxln mhd fos no por
Sh-gry/dk gry
Ls-tan fxln to blkly mhd highly fos no por
Sh-gry/dk gry

Ls-tan/lt gry fxln mhd/dns sl fos no por
Sh-gry/dk gry

Ls-tan/lt gry fxln dns sl fos no por
Sh-gry/dk gry

Ls-tan/lt gry fxln sl fos no por
Sh-gry/dk gry

Ls-tan/lt gry fxln fos no por
Sh-gry/dk gry

Ls-tan fxln mhd fos no por
Sh-gry/dk gry

Ls-lt gry/tan f/mxln mhd with blk fos no por
Sh-gry/dk gry

Ls-tan/crm fxln mhd fos sl clky no por
Sh-gry/dk gry

Ls-crm/lt gry fxln mhd sl clky no por
Sh-gry/dk gry

Ls-crm/tan fxln mhd/dns sl clky no por
Sh-gry/dk gry

----- **Topeka 3686 -802** -----

Ls-tan/lt gry fxln mhd/dns sl clky no por
Ls-AA
Sh-gry/dk gry

Ls-lt gry/gry fxln dns no por
Sh-gry/dk gry

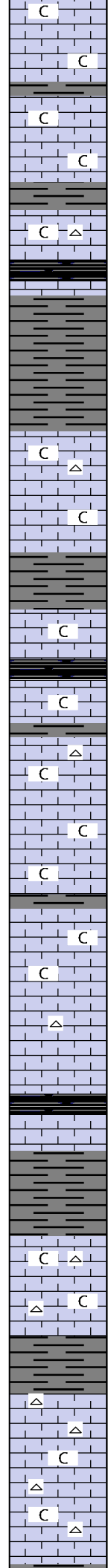
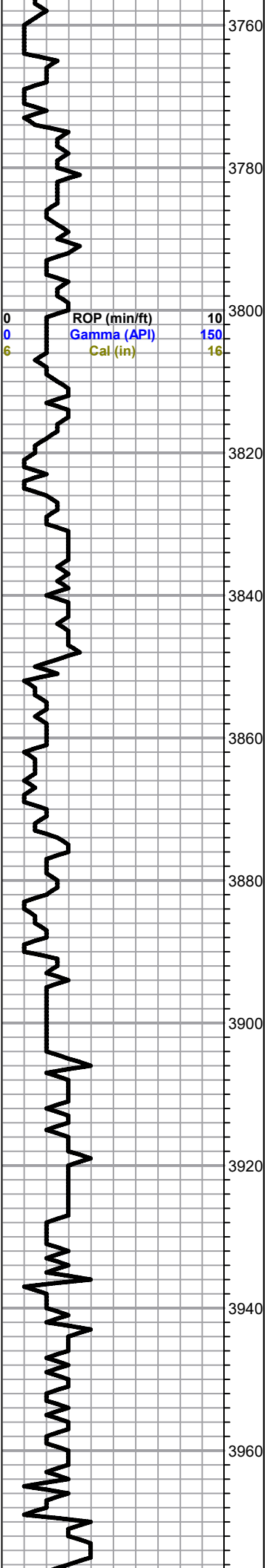
Ls-lt gry fxln mhd sl fos no por
Ls-AA

Ls-lt gry fxln mhd/dns no por
Sh-gry/dk gry

Ls-tan/lt gry fxln mhd no por
Sh-gry/dk gry

All formation tops on this geological log have been correlated back to the electric log

Mud Data 3715'
 7:20 am on 7-26-22
 Wt 9.0 Vis 50 WL 7.2
 pH 11.0 Chl 1700 Sol 4.9
 YP 15 LCM 2.0



Ls-lt gry/crm fxln mhd sl clky no por

Ls-AA

Sh-gry/dk gry

Ls-lt gry/crm fxln mhd sl clky no por

Sh-gry/dk gry

Ls-lt gry/crm f/mxln mhd sl clky no por sm Cht-lt gry/lt brn fsh opa

Sh-blk carb

Ls-gry f/mxln mhd/dns no por

Sh-gry/dk gry

Sh-AA

Ls-lt gry/tan f/mxln mhd sl clky sl fos no por sm Cht-lt gry fsh opa

Ls-crm/lt tan fxln mhd sl clky no por

Sh-gry/dk gry

Ls-lt gry/crm fxln mhd sl clky no por

Sh-blk carb

Ls-lt gry/crm fxln soft/mhd clky no por

Sh-gry/dk gry

Ls-crm fxln soft/mhd clky no por sm Cht-lt gry/crm fsh opa

Ls-AA

Ls-crm/lt gry fxln mhd sl clky no por

Sh-gry/dk gry

Ls-crm/lt gry fxln mhd sl clky no por

Ls-AA

Ls-crm/lt gry fxln dns no por sm Cht-wt/tan fsh opa

Ls-AA

----- Heebner 3910 -1026 -----

Ls-gry f/mxln dns no por

Sh-gry/dk gry

Ls-crm/lt gry fxln mhd/dns sl clky no por sm Cht-lt gry fsh opa

Ls-crm fxln mhd sl clky no por sm Ls-wt fxln soft clky and Cht-AA

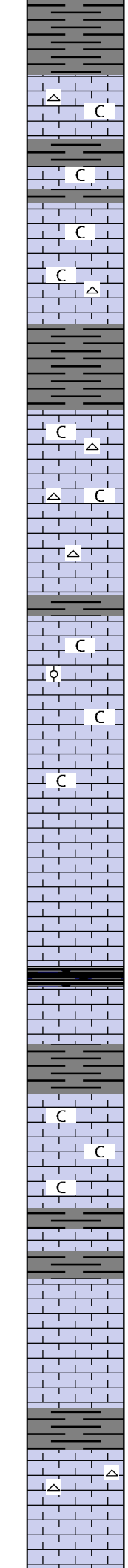
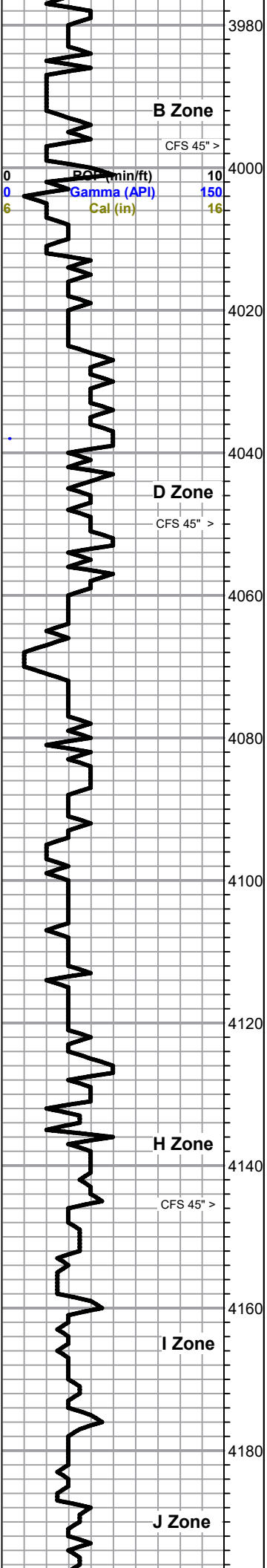
Sh-gry/dk gry

----- Lansing 3952 -1068 -----

Ls-lt gry/crm f/mxln mhd/dns no por sm Cht-wt/lt gry fsh opa

Ls-crm fxln mhd/dns no por sm Ls-wt fxln soft clky and sm Cht-wt/lt gry fsh and weat opa

Ls-crm/wt fxln mhd sl clky no por sm Cht-lt gry fsh opa



Sh-gry/dk gry

Ls-crm fxln mhd sl clky no por sm Cht-crm/lt gry fsh opa

Sh-gry/dk gry

Ls-crm fxln dns sl clky no por

Sh-gry/dk gry

Ls-crm fxln dns sl clky no por

Ls-crm/lt gry fxln mhd sl clky no por sm Cht-lt gry fsh opa

Sh-gry/dk gry

Ls-crm/lt gry fxln sl clky dns no por sm Cht-lt gry fsh opa

Ls-AA sm Cht-lt gry/lt tan fsh opa

Ls-crm/lt gry fxln dns no por sm Cht-crm fsh opa

Sh-gry/dk gry

Ls-crm/lt gry fxln dns sl clky no por

Ls-crm fxln dns sl clky no por sm Ls-crm fxln dns fos ool and ooc no por

Ls-crm/lt gry fxln dns sl clky no por

Ls-AA

Ls-lt gry/crm fxln mhd/dns no por

Ls-AA

Ls-lt gry fxln mhd/dns no por

----- **Muncie Creek 4112 -1228** -----

Ls-gry/gry brn fxln dns no por

Sh-gry/dk gry

Ls-lt gry fxln mhd sl clky no por sm Ls-wt fxln soft no por

Ls-lt gry/crm fxln mhd/dns sl clky no por

Ls-AA

Sh-gry/dk gry

Ls-lt grygry fxln dns no por

Sh-gry/dk gry

Ls-lt gry/crm fxln mhd/dns no por

Ls-lt gry gry fxln dns no por

Ls-AA

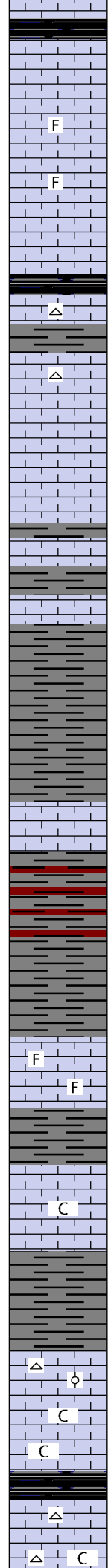
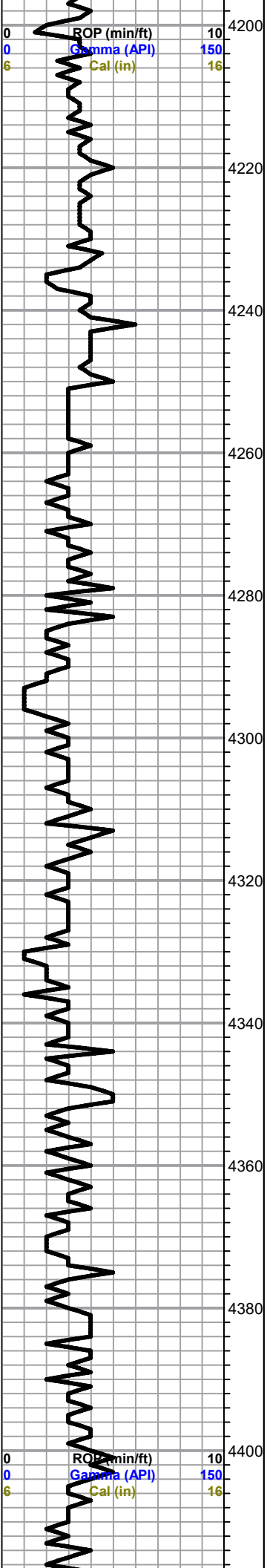
Sh-gry/dk gry

Ls-lt gry/tan fxln mhd/dns no por sm Cht-lt gry fsh fos opa

Ls-lt gry/crm fxln dns no por

Ls-AA

Mud Data 4147'
 8:30 am on 7-27-22
 Wt 9.2 Vis 58 WL 8.0
 pH 11.0 Chl 2000 Sol 5.9
 YP 17 LCM 2.0



----- **Stark 4199 -1315** -----

Ls-crm/lt gry fxln dns no por

Ls-lt gry/tan f/mxln dns fos no por

Ls-gry f/mxln dns fos no por

Ls-AA

----- **Hushpuckney 4235 -1351** -----

Ls-gry fxln dns no por sm Cht-lt gry fsh opa

Sh-gry/dk gry

Ls-lt gry/gry fxln dns no por sm Cht-lt gry fsh opa

Ls-AA

Ls-lt gry/tan fxln dns no por

Ls-AA

Sh-gry/dk gry

Ls-gry/tan fxln dns no por

Sh-gry/dk gry

Ls-gry/tan fxln dns no por

----- **Base/Kansas City 4284 -1400** -----

Sh-gry/dk gry

Sh-AA

Sh-gry/dk gry

Ls-lt gry fxln dns no por

Sh-gry/dk gry/red/mar

Sh-AA

Sh-gry/dk gry

----- **Marmaton 4342 -1458** -----

Ls-gry/tan f/mxln dns sl fos no por sm Ls-gry blk mhd no por

Sh-gry/dk gry

Ls-lt gry/crm fxln mhd clky no por

Sh-gry/dk gry

Ls-gry/gry brn fxln mhd fos ool no por sm Cht-wt/brn fsh opa

Ls-crm/lt gry fxln dns sl clky no por

Ls-AA

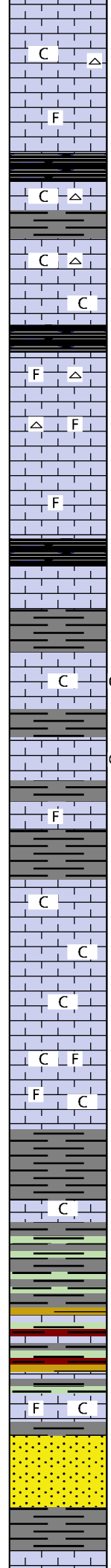
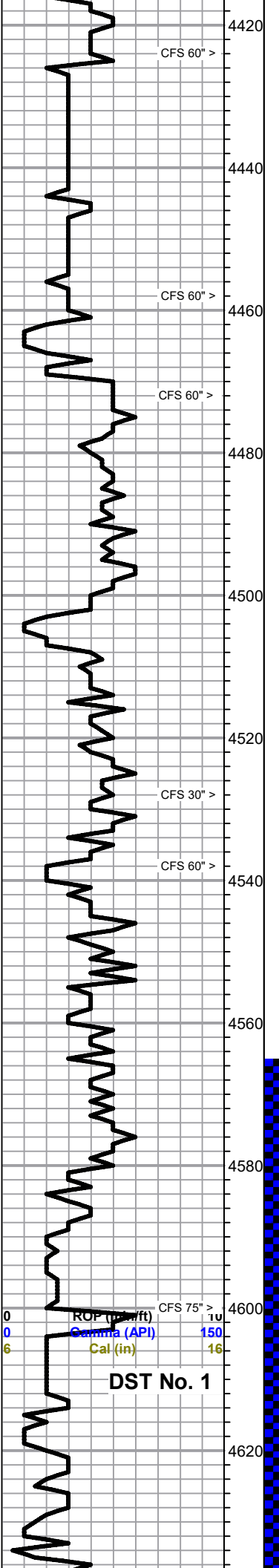
----- **Pawnee 4417 -1533** -----

Ls-crm/tan fxln mhd/dns sl clky no por sm Cht-wt fsh opa

Ls-AA with more Cht-wt fsh opa

Mud Data 4404'
 12:30 am on 7-28-22
 Wt 9.4 Vis 55 WL 10.4
 pH 10.0 Chl 3200 Sol 7.3
 YP 23 LCM 1.0

Auto Driller malfunction from
 4401 to 4404



Ls-crm/lt tan fxln dns sl clkly no por and Cht-wt fsh opaꝓ
 Ls-crm fxln dns sl clkly no por with Cht-wt/gry fsh opaꝓ
 Ls-gry f/mxln dns sl fos no por
 Sh-blk carb
 ----- **Fort Scott 4442 -1558** -----
 Ls-crm/tan fxln mhd sl clkly no por sm Cht-wt fsh opaꝓ
 Sh-gry/dk gry
 Ls-lt gry/crm fxln mhd/dns sl clkly no por sm Cht-wt fsh opaꝓ
 Ls-crm/lt tan fxln mhd/dns sl clkly no por
 ----- **Cherokee Shale 4462 -1578** -----
 Sh-blk carb
 Ls-lt gry/tan fxln mhd sl fos no por sm Cht-wt/gry fsh opaꝓ
 Ls-lt gry/tan fxln dns sl fos no por sm Cht-wt/gry fsh opaꝓ
 Ls-tan/brn/gry fxln mhd no por
 Ls-tan/gry f/mxln dns fos no por
 ----- **Lower Cherokee Shale 4492 -1608** -----
 Sh-blk carb
 Ls-tan/gry/brn fxln dns no por
 Sh-gry/dk gry
 Ls-lt gry/tan fxln mhd sl clkly no por with few pcs (5) Ls-brn f/mxln mhd
 fos fr vug por dk brn sct to sat stn gd cut ssfo on brk no odor
 Sh-gry/dk gry
 Ls-crm/tan fxln mhd/dns no por with few pcs (3) Ls-brn fxln mhd
 fr vug por dk brn spt stn fr cut vssfo on brk no odor
 Sh-gry/dk gry
 Ls-lt gry/gry fxln dns sm pcs with fos no por
 Sh-gry/dk gry
 ----- **Johnson Zone 4540 -1656** -----
 Ls-crm/lt gry fxln mhd sl clkly no por
 Ls-AA
 Ls-crm/lt gry f/mxln mhd/dns fos sl clkly no por sm Ls-gry/dk gry
 f/mxln highly fos no por
 Ls-AA
 ----- **Morrow Shale 4575 -1691** -----
 Sh-gry/grn/red/mar/yel
 Ls-crm/lt gry f/mxln mhd sl fos sl clkly no por
 Sh-gry/grn/mar/yel
 Sh-AA
 Sh-bry/grn/mar/yel
 Sh-AA
 Ls-crm/lt gry fxln mhd sl fos sl clkly no por
 ----- **Morrow Sand 4618 -1734** -----
 Ss-lt gry fgrn sub rnd to sub ang sl fri sl gils and glau nsfo
 Ss-lt gry/clr vfgrn sug and to ang tite cement sl gils nsfo
 Ss-lt gry/clr fgrn sub rnd to sub ang sl fri to tite cement sl gils nsfo
 Sh-gry/dk gry
 ----- **Mississippi 4634 -1750** -----
 Ls-crm/lt tan fxln mhd sl clkly no por

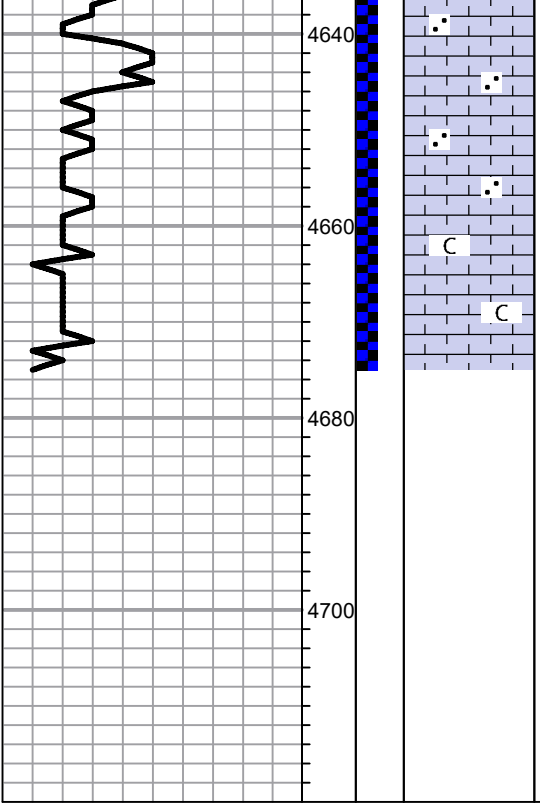
Clock stopped working from 4436 to 4443

Pulled pipe out of hole at 4472'. Also strapped pipe. Short 1.17" to board.

DST No. 1

DST No. 1
 4565 to 4675
 30-60-45-90
 1st Open: Weak blow, building to 4 1/2". Tool partially plugged.
 2nd Open: Strong blow. Built to 34 1/2"
 Recovery:
 150' GIP
 50' GO (20%G, 80%)
 100' GOCM (30%G, 20%O, 50%M)
 IHP 2431 FHP 2307
 IFP 219-96 FFP 59-92
 ISIP 1030 FSIP 846
 126°

Mud Data 4645'
5:00 am on 7-29-22



Ls-crm rxln mhd sl sdy no por

Ls-crm rxln mhd/dns sl sdy no por

Ls-crm rxln mhd sl sdy no por

Ls-AA

Ls-crm/tan rxln mhd sl clk no por

Ls-AA

----- RTD 4675 -1791 -----

**Finished drilling at 6:02 am on 7-29-22. Circulated for log
90 minutes.**

Finished logging at 3:15 pm on 7-29-22.



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah Oil
125 N Market St Ste 1015
Wichita, Ks 67202
ATTN: Macklin Armstrong

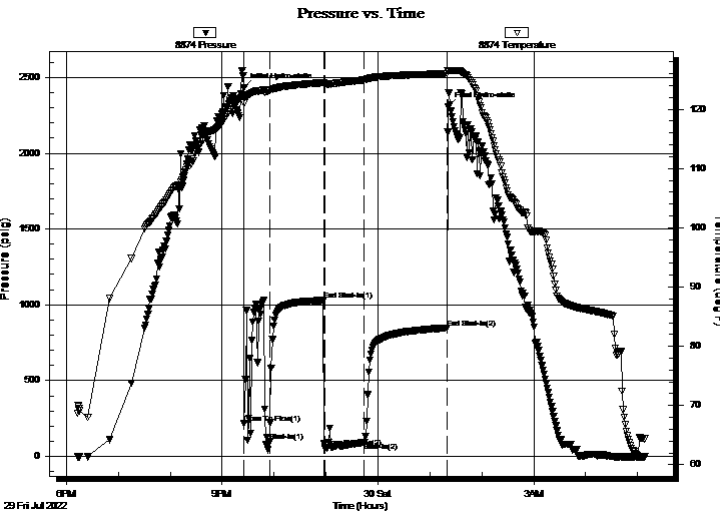
1 14s 32w Logan Ks
Harms 1-4
Job Ticket: 69152 **DST#: 1**
Test Start: 2022.07.29 @ 18:13:00

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:25:30
Time Test Ended: 05:08:15
Interval: **4562.00 ft (KB) To 4672.00 ft (KB) (TVD)**
Total Depth: 4672.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2883.00 ft (KB)
2874.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8874 Outside
Press@RunDepth: 91.95 psig @ 4563.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2022.07.29 End Date: 2022.07.30 Last Calib.: 2022.07.30
Start Time: 18:13:05 End Time: 05:08:15 Time On Btm: 2022.07.29 @ 21:25:15
Time Off Btm: 2022.07.30 @ 01:21:00

TEST COMMENT: IF: 4 1/2" blow,
IS: No return.
FF: 34 1/5" blow.
FS: Surface return. 30-60-45-90



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.44	122.42	Initial Hydro-static
1	219.36	121.02	Open To Flow (1)
30	96.02	123.12	Shut-In(1)
92	1030.04	124.50	End Shut-In(1)
94	58.83	124.26	Open To Flow (2)
139	91.95	124.97	Shut-In(2)
235	846.43	126.02	End Shut-In(2)
236	2306.97	126.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	gocm 30g 20o 50m	1.40
50.00	go 20g 80o	0.70
0.00	150' GIP	0.00

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Darrah Oil
125 N Market St Ste 1015
Wichita, Ks 67202
ATTN: Macklin Armstrong

1 14s 32w Logan Ks
Harms 1-4
Job Ticket: 69152 **DST#: 1**
Test Start: 2022.07.29 @ 18:13:00

GENERAL INFORMATION:

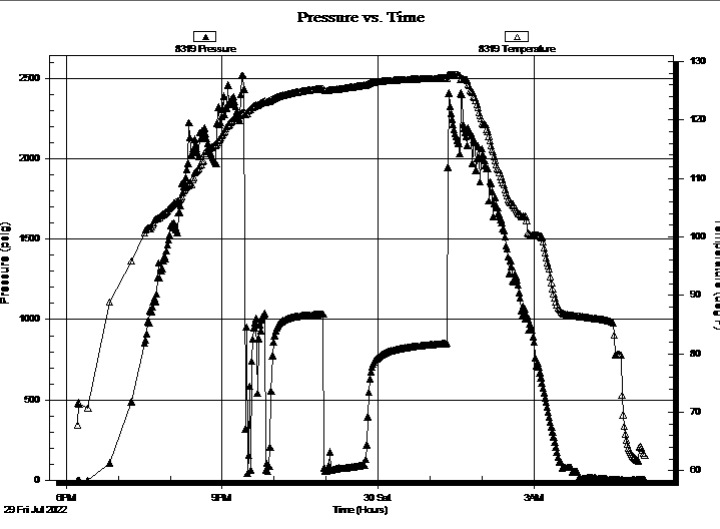
Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:25:30
Time Test Ended: 05:08:15
Interval: 4562.00 ft (KB) To 4672.00 ft (KB) (TVD)
Total Depth: 4672.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)
Tester: Bradley Walter
Unit No: 78
Reference Elevations: 2883.00 ft (KB)
2874.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 8319 Inside

Press@RunDepth:	psig @ 4563.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2022.07.29 End Date: 2022.07.30	Last Calib.:	2022.07.30
Start Time:	18:13:05 End Time: 05:08:30	Time On Btm:	
		Time Off Btm:	

TEST COMMENT: IF: 4 1/2" blow ,
IS: No return.
FF: 34 1/5" blow .
FS: Surface return. 30-60-45-90



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
100.00	gocm 30g 20o 50m	1.40
50.00	go 20g 80o	0.70
0.00	150' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah Oil

1 14s 32w Logan Ks

125 N Market St Ste 1015
Wichita, Ks 67202

Harms 1-4

Job Ticket: 69152

DST#: 1

ATTN: Macklin Armstrong

Test Start: 2022.07.29 @ 18:13:00

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:

32 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	gocm 30g 20o 50m	1.403
50.00	go 20g 80o	0.701
0.00	150' GIP	0.000

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

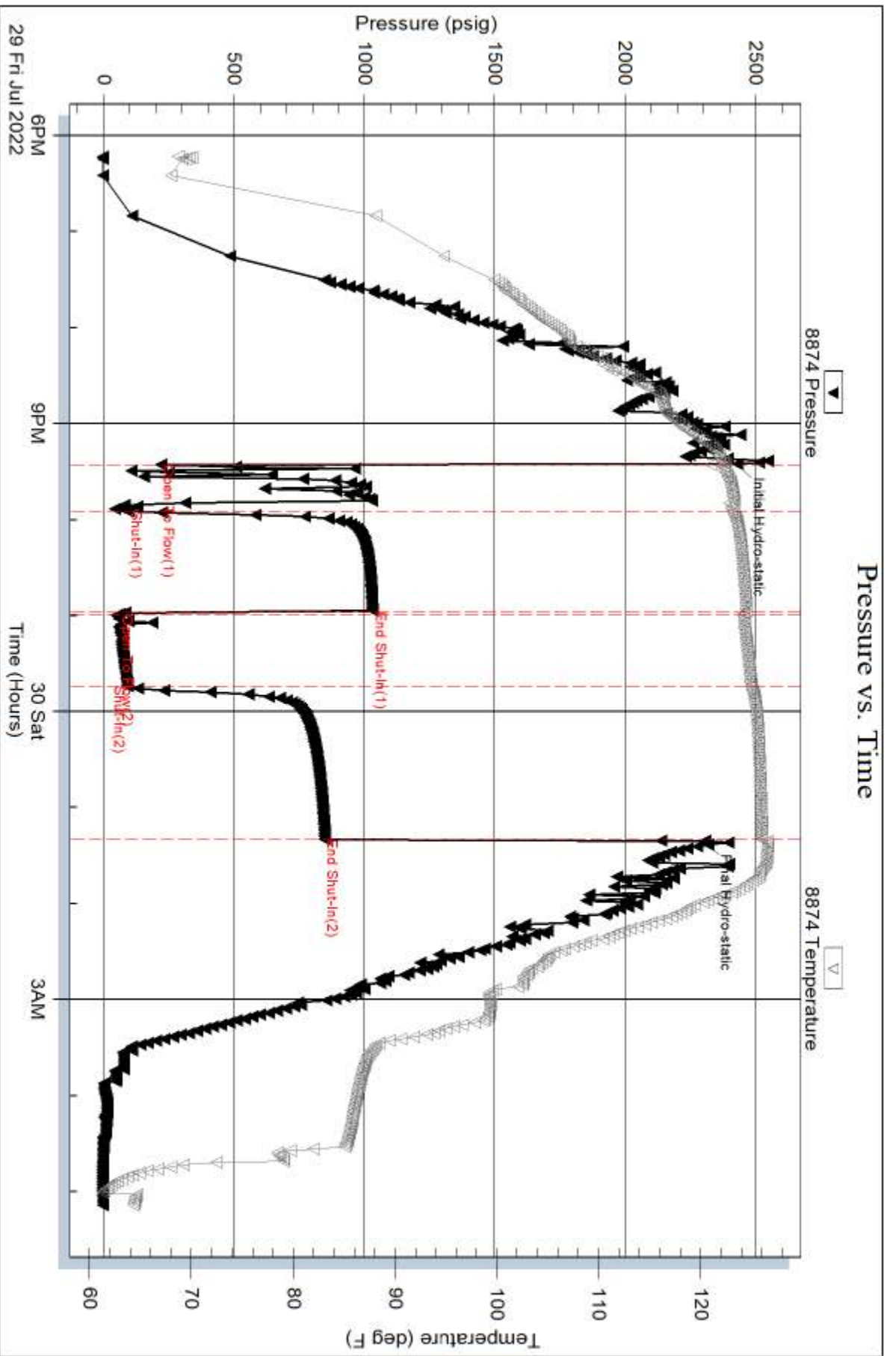
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



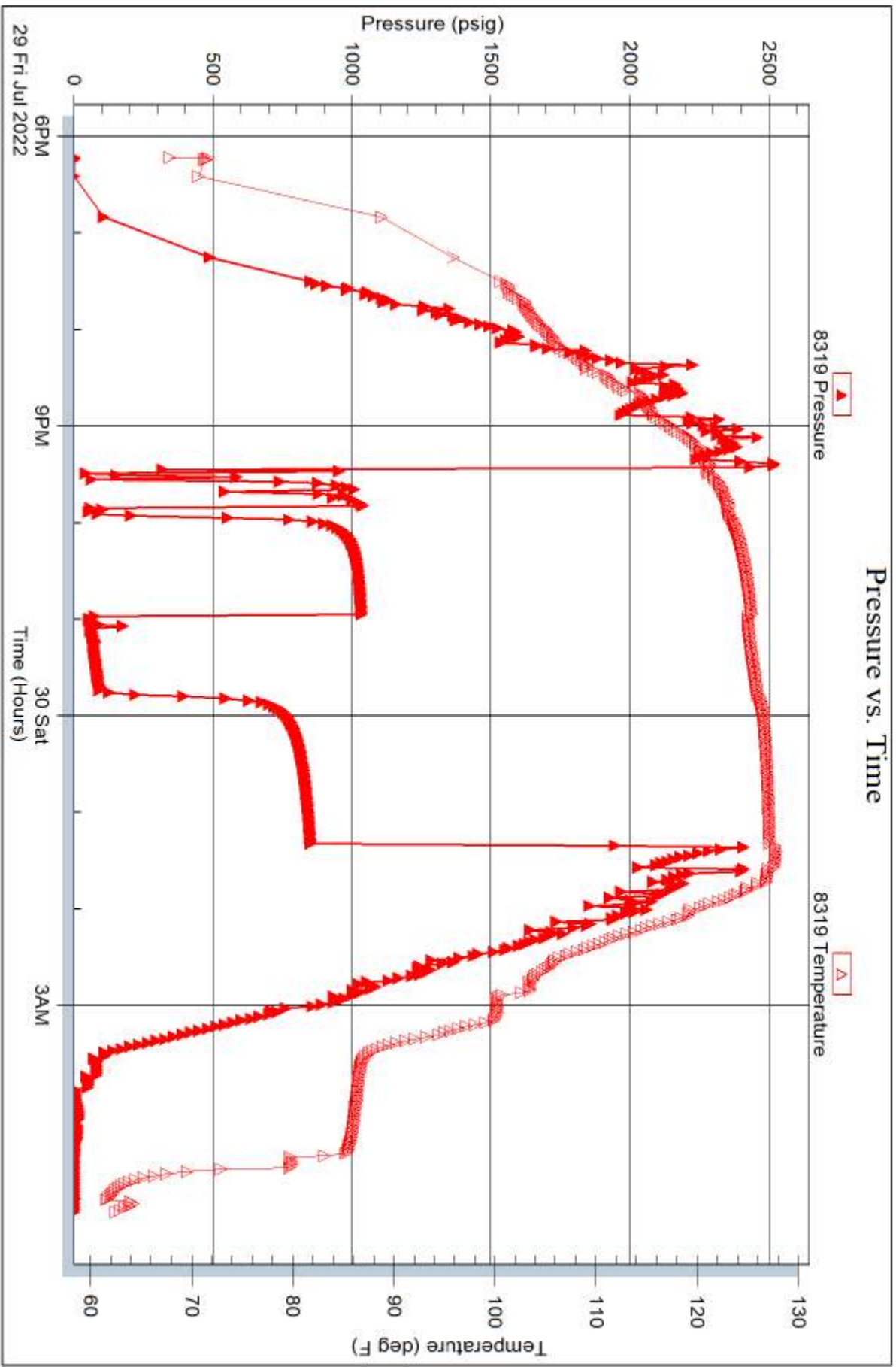
Serial #: 8319

Inside

Darrah Oil

Harms 1-4

DST Test Number: 1



Oakley Redi-mix
 83 1500th Rd
 Selden, KS 67757

Invoice

Date	Invoice #
1/20/2023	6847

Bill To
Darrah Oil Company 125 North Market Suite 1015 Wichita, KS 67202

Terms
Net 15

Item	Quantity	Description	Rate	Amount
01-517 Mileage Service	2.5	5 1/2 S	146.25	365.63T
	23	Mileage	5.00	115.00T
	1	Service Charge 1 - 4 yards	70.00	70.00T

Sales Tax (8.0%)	\$44.05
Total	\$594.68
Payments/Credits	\$0.00
Balance Due	\$594.68



416 Main Street
 P.O. Box 225
 Victoria, KS 67671
 Office (785) 639-3949
 24 Hour Service Line (785) 639-7269

Invoice

Date	Invoice #
1/4/2023	0825

Please Pay from this Invoice.
 Remit Payment to:
 416 Main Street PO BOX 225
 Victoria, KS 67671
 Billing Questions-Call Tianna at
 (785) 639-3949
 Email: franksoilfield@yahoo.com

KCC License Number
 35469

Bill To
Darrah Oil Will Darrah P.O. Box 2786 Wichita, KS 67201

County/State	Lease/Well#	Terms	Job Type
Logan County, KS	Harms 1-4	Net 30	OHP

Description	Quantity	Rate	Amount
Pump Charge	1	950.00	950.00
Mileage	68	6.50	442.00
16.47 tons at 68 miles	1,119.96	1.50	1,679.94
60/40 4% gel 1/4# floseal	370	17.35	6,419.50T
Salt	100	0.50	50.00T
Cotton Seed Hulls	400	1.00	400.00T
Discount		-497.07	-497.07

Thank you!

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

Subtotal \$9,444.37

We appreciate your business and look forward to serving you again!

Sales Tax (8.0%) \$522.08

Balance Due \$9,966.45

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0825
 LOCATION Home
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
01-04-23		Harms 1-41				
CUSTOMER <u>Derrah Oil</u>			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE						

JOB TYPE _____ HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Surface mapping & set up on well plug as ordered
5 1/4" casing

1) 2400'	100 st	200 bulks
2) 1800'	100 st	200 bulks
3) 400'	125 st	circulate
4) Top of F	40 st	

Thanks Tom & Chase

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
P1001	1	PUMP CHARGE PHP	\$950 ⁰⁰	\$950 ⁰⁰
m001	65	MILEAGE	\$6 ⁵⁰	\$442 ⁰⁰
m002	16.42 tons	Ton Mileage Delivery	\$1679 ⁹⁴	\$1679 ⁹⁴
-CR010	320 st	(D) 40 49 gal 1/2 fl oz	\$17 ³⁵	\$6,419 ⁵⁰
LP005	100 lbs	saps	\$5 ⁰⁰	\$50 ⁰⁰
CR016	400 lbs	Cotton seed hulls	\$1 ⁰⁰	\$400 ⁰⁰
			sub total	\$9,941 ⁴⁴
			less 5% disc.	\$497 ⁰⁷
			sub total	\$9,444 ³⁷
			SALES TAX	522.08
			ESTIMATED TOTAL	9966.45

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment 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.



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

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

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

Laura Kelly, Governor

February 09, 2023

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

Re: ACO-1
API 15-109-21652-00-00
HARMS 1-4
SE/4 Sec.01-14S-32W
Logan County, Kansas

Dear Cooper Seely:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 7/22/2022 and the ACO-1 was received on February 09, 2023 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department