

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	Indian Oil Co., Inc.
Well Name	LAWRENZ 2-9
Doc ID	1596629

All Electric Logs Run

Dual Induction
Micro
Compensated Density/Neutron
Sonic

Form	ACO1 - Well Completion
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Tops

Name	Top	Datum
Heebner	3744	-1876
Douglas	3777	-1909
Lansing	3957	-2089
Marmaton	4356	-2488
Kinderhook	4441	2573
Viola	4530	-2662
Simpson SS	4616	-2748
Arbuckle	4695	-2827

Form	ACO1 - Well Completion
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Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
2	4557	4562			2000 gal 15% NEFE, 60 ball sealers
1	4563	4569			slickwater frac: 4500 BOW, 100000# sand
2	4570	4571			
1	4571	4574			
2	4575	4576			
1	4576	4579			

Fracture Start Date/Time:	9/21/21 9:26
Fracture End Date/Time:	9/21/21 11:06
State:	Kansas
County:	Barber
API Number:	
Operator Number:	
Well Name:	Lawrence
Federal Well:	No
Tribal Well:	No
Longitude:	
Latitude:	
Long Lat Projection:	NAD83
True Vertical Depth (TVD):	
Total Clean Fluid Volume (gals):	155,799



(e.g. 13, 13.13, 13.13.13)

Total Shows Mass (Lbs)
1,496,008

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	Claimant Company	Claimant First Name	Claimant Last Name	Claimant Email	Claimant Phone (nnn-aaa-bbbb)
Water	Indian Oil Company	Carrier/Bulk Fluid	Water	7732-18-5	100.00%								
100 Mesh Sand	SPS	Propping Agent		Limited Below		1,389,143	92.1769%						
40/70 Premium Sand	SPS	Propping Agent		Limited Below									
16/30 Premium Sand	SPS	Propping Agent		Limited Below									
20/40 Premium Sand	SPS	Propping Agent		Limited Below									
1/2-1 Liquid Gel	Mason Chemical	Gelling Agent		Limited Below									
FRA-1 Friction Reducer I	AM Chemical	Friction Reducer		Limited Below									
LB-1 Liquid Breaker	EES	Breaker		Limited Below									
W-11 N/S Surfactant	Stratagy Oilfield	N/S Surfactant		Limited Below									
KCl C-1 Liquid KCl Subst	Stratagy Oilfield	Liquid Potassium Chloride Substitute		Limited Below									
SP-400 H2S Inhibitor	Stratagy Oilfield	H2S Scav. Inhibitor		Limited Below									
PH-1 FR Breaker	EES	Polymer Breaker		Limited Below									
Breaker 1E	Imnospec	Liquid Enzyme Breaker		Limited Below									
XL-B Gel Complexer and BES	Hexon	Gel Complexer and Buffering Agent		Limited Below									
Proppure XA Component	Hexon	Amidamine		Limited Below									
Proppure XB Component	Hexon	Epoxy		Limited Below									
			Crystalline Silica	14808-60-7	100.00%	15,000	1.0668%						
			Crystalline Silica	14808-60-7	100.00%	15,000	1.0668%						
			Crystalline Silica	14808-60-7	100.00%	48,000	3.2193%						
			Crystalline Silica	14808-60-7	100.00%	25,000	1.7471%						
			Pentoseum distillates	64742-47-8	50.00%	768	0.0542%						
			Chromophic dyes	71011-26-2	2.00%	31	0.0021%						
			Crystalline Silica	14808-60-7	0.00%	1	0.000%						
			Alcohol ethoxylate	34398-01-1	1.00%	15	0.0010%						
			Gum Gars	9909-30-0	50.00%	768	0.0542%						
			Distillates (Petroleum), Hydrocracked lubr	64742-47-8	30.00%	43	0.0031%						
			Citra Acid	77-92-9	5.00%	7	0.0010%						
			Alcohols, C12-16, Ethoxylated	68902-97-1	5.00%	7	0.0010%						
			Alcohols, C12-14, Ethoxylated	68439-50-9	5.00%	7	0.0010%						
			Alcohols, C12-16, Ethoxylated	68551-12-2	5.00%	7	0.0010%						
			Water	7732-18-5	50.00%	155	0.0110%						
			Glyceroldehyde	111-30-8	20.00%	64	0.0045%						
			Dibutyltinyl ammonium chloride	7171-51-5	2.00%	10	0.0006%						
			Alkali C-12-16 dimethylbenzyl ammonium chloride	68434-85-1	3.00%	10	0.0006%						
			Miscure	Not Assigned	74.00%	258	0.0181%		Imnospec Oilfield Services	K	Adams	adamfo@imnospec.com	713-936-4340
			Mechanical	67-56-1	15.00%	49	0.0034%						
			Polyoxyethylene Nonyl Phenol Ether	177097-87-0	20.00%	65	0.0046%						
			Proprietary	Proprietary	65.00%	211	0.0149%		Stratagy Oilfield	Greg	Ferguson	gfergus@stratagyoil.com	940-736-0352
			Choline Chloride	62-48-1	75.00%	1,095	0.0778%						
			Water	7732-18-5	28.00%	165	0.0116%						
			Corrosion Inhibitor	Proprietary	70.00%	233	0.0158%		Stratagy Oilfield	Greg	Ferguson	gfergus@stratagyoil.com	940-736-0352
			Methanol	67-56-1	20.00%	95	0.0067%						
			Sodium chloride	7782-18-2	10.00%	5	0.0003%						
			Water	7732-18-5	50.00%	159	0.0099%						
			Non-Hazardous Inertedents	Not Assigned	100.00%	230	0.0156%						
			Sodium metaborate 8	10255-76-7	24.00%	235	0.0172%						
			Fatty Acid polyamine condensate	Proprietary	25.00%	25	0.0018%		Hexon	Logan	Calvert	logan.calvert@hexon.com	405-301-5073
			Solvent naphtha (petroleum), heavy arom	64742-94-5	10.00%	10	0.0007%						
			1,6,9,12-Tetraoxatridecan-1-ol	5650-20-4	5.00%	5	0.0003%						
			Sulfonate	91-20-3	1.00%	1	0.0000%						
			1,4-Diisopropylbenzenedipheno-E-pychoxydim. Cocob	75068-38-6	75.00%	77	0.0054%						

*Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 All component information



HURRICANE SERVICES INC

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

Customer:
INDIAN OIL CO INC
PO BOX 209
MEDICINE LODGE, KS 67104-0209

Invoice Date: 8/18/2021
Invoice #: 0354941
Lease Name: Lawrenz
Well #: 2-9 (New)
County: Pratt, Ks
Job Number: WP1744
District: Pratt

Drilling

Date/Description	HRS/QTY	Rate	Total
Conductor	0.000	0.000	0.00
Cement Pozmix 60/40	275.000	11.440	3,146.00
Calcium Chloride	711.000	0.660	469.26
Cello Flake	69.000	1.540	106.26
Light Eq Mileage	15.000	1.760	26.40
Heavy Eq Mileage	15.000	3.520	52.80
Ton Mileage Minimum	1.000	264.000	264.00
Cement Pump Service	1.000	660.000	660.00

Total 4,724.72

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!



Customer	INDIAN OIL COMPANY, INC.	Lease & Well #	LAWRENZ 2-9	Date	8/18/2021
Service District	PRATT,KS	County & State	PRATT,KS	Legals S/T/R	9-30S-13W
Job Type	CONDUCTOR	<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 #
Job Safety Analysis - A Discussion of Hazards & Safety Procedures					
Equipment #	Driver	<input checked="" type="checkbox"/> Hard hat <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Lockout/Tagout <input type="checkbox"/> Warning Signs & Flagging <input checked="" type="checkbox"/> H2S Monitor <input checked="" type="checkbox"/> Eye Protection <input type="checkbox"/> Required Permits <input type="checkbox"/> Fall Protection <input checked="" type="checkbox"/> Safety Footwear <input type="checkbox"/> Respiratory Protection <input type="checkbox"/> Slip/Trip/Fall Hazards <input checked="" type="checkbox"/> Specific Job Sequence/Expectations <input checked="" type="checkbox"/> FRC/Protective Clothing <input type="checkbox"/> Additional Chemical/Acid PPE <input 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			
75	LESLEY				
267	MARTINEZ				
181-256	BRYAN				
X-HAND	BRYDAN				
Comments					
13 3/8" CONDUCTOR PIPE					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP070	60/40/2 Pozmix	sack	275.00	\$3,146.00
CP100	Calcium Chloride	lb	711.00	\$469.26
CP120	Cello-flake	lb	69.00	\$106.26
M015	Light Equipment Mileage	mi	15.00	\$26.40
M010	Heavy Equipment Mileage	mi	15.00	\$52.80
M025	Ton Mileage - Minimum	each	1.00	\$264.00
C010	Cement Pump Service	ea	1.00	\$660.00

Customer Section: On the following scale how would you rate Hurricane Services Inc? Net: \$4,724.72				
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Total Taxable \$ - Tax Rate:	Total: \$ 4,724.72
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: \$ 4,724.72
HSI Representative: <i>Keven Lesley</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 effect 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 Raul Orozco

CUSTOMER AUTHORIZATION SIGNATURE



CEMENT TREATMENT REPORT

Customer:	INDIAN OIL COMPANY, INC.	Well:	LAWRENZ 2-9	Ticket:	WP 1744
City, State:		County:	PRATT,KS	Date:	8/18/2021
Field Rep:	ANTHONY FARRAR	S-T-R:	9-30S-13W	Service:	CONDUCTOR

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	17 1/2 in	Blend:		Blend:	60/40/2 POZMIX
Hole Depth:	250 ft	Weight:	ppg	Weight:	14.5 ppg
Casing Size:	13 3/8 in 48#	Water / Sx:	gal / sx	Water / Sx:	5.6 gal / sx
Casing Depth:	249 ft	Yield:	ft ³ / sx	Yield:	1.27 ft ³ / sx
	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG Depth:	230 ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:	Gross Amount	Excess:	
Displacement:	36.0 bbls	Total Slurry:	#VALUE! bbls	Total Slurry:	62.1 bbls
		Total Sacks:	#VALUE! sx	Total Sacks:	275 sx

TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
2:30PM			-		-	ON LOCATION- SPOT EQUIPMENT AND RIG UP
5:30PM					-	RUN 6 JTS. 13 3/8" X 48# CASING
6:20PM					-	CASING ON BOTTOM
6:22PM					-	HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP AND MUD
6:35PM	5.0	200.0	10.0		10.0	H2o AHEAD
6:40PM	5.0	200.0	62.1		72.1	MIX 275 SKS 60/40/2 POZMIX @ 14.5 PPG
6:52PM	5.0	100.0	-		72.1	START DISPLACEMENT
6:58PM	3.0	250.0	30.0		102.1	SLOW RATE
7:00PM	3.0	300.0	36.0		138.1	CEMENT @ DESIRED DEPTH
					138.1	CIRCULATION THRU JOB
					138.1	CIRCULATED 15 BBL TO PIT
						JOB COMPLETE,
						THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MARTINEZ	267	4.2 bpm	210 psi	138 bbls
Bulk #1:	BRYAN	181-256			
Bulk #2:	BRYDAN	X-HAND			



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67132

DST#: 1

ATTN: Aaron Young

Test Start: 2021.08.23 @ 01:08:00

GENERAL INFORMATION:

Formation: **Mississippian & Kind**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:46:10

Time Test Ended: 10:23:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 4392.00 ft (KB) To 4468.00 ft (KB) (TVD)

Reference Elevations: 1869.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8369 Outside

Press@RunDepth: 28.09 psig @ 4393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.23

End Date:

2021.08.23

Last Calib.:

2021.08.23

Start Time:

01:08:01

End Time:

10:23:19

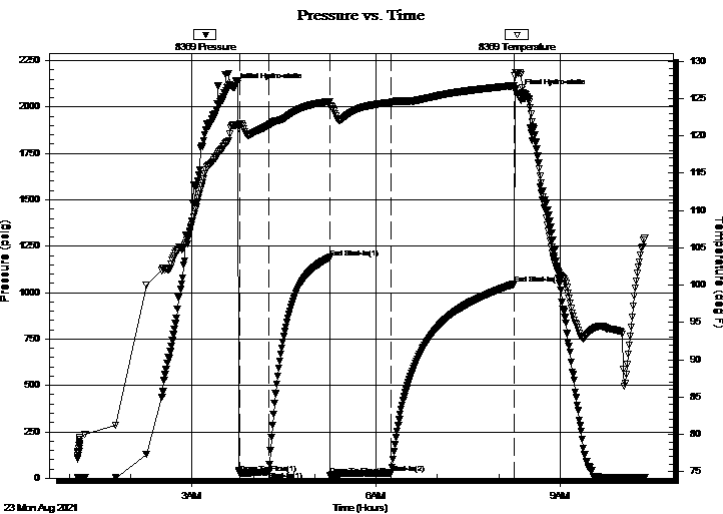
Time On Btm:

2021.08.23 @ 03:40:20

Time Off Btm:

2021.08.23 @ 08:19:09

TEST COMMENT: IF - Weak blow building to strong blow 1 minute into initial flow period. Continuing to build to 219 inches of water.
FF - Strong blow throughout final flow period. Gas to surface 27 minutes into final flow period. Gauged at 7.5 MCFD.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2106.07	121.41	Initial Hydro-static
6	27.56	121.43	Open To Flow (1)
35	34.17	121.40	Shut-In(1)
95	1189.04	124.62	End Shut-In(1)
95	15.34	124.05	Open To Flow (2)
155	28.09	124.49	Shut-In(2)
275	1046.60	126.72	End Shut-In(2)
279	2071.80	128.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drilling mud 100% M	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.71	7.90
Last Gas Rate	0.13	6.89	7.97
Max. Gas Rate	0.13	6.89	7.97



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67132

DST#: 1

ATTN: Aaron Young

Test Start: 2021.08.23 @ 01:08:00

GENERAL INFORMATION:

Formation: **Mississippian & Kind**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:46:10

Time Test Ended: 10:23:19

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: **4392.00 ft (KB) To 4468.00 ft (KB) (TVD)**

Reference Elevations: 1869.00 ft (KB)

Total Depth: 4468.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8679 Inside

Press@RunDepth: psig @ 4393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.23

End Date: 2021.08.23

Last Calib.: 1899.12.30

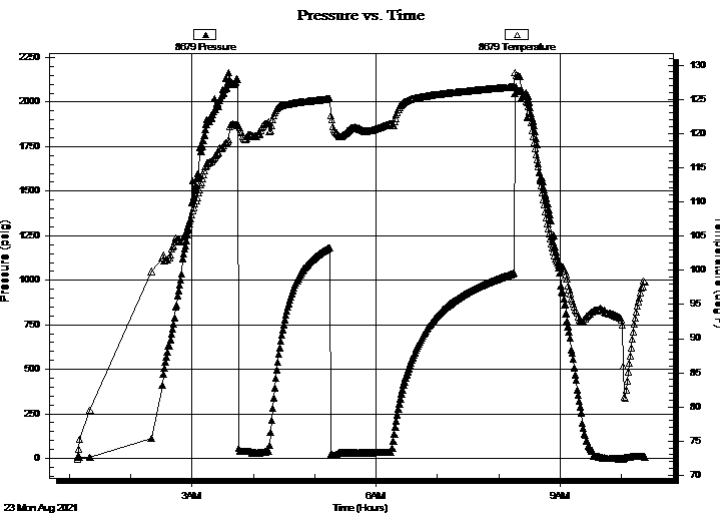
Start Time: 01:08:05

End Time: 10:23:40

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 1 minute into initial flow period. Continuing to build to 219 inches of water.
 FF - Strong blow throughout final flow period. Gas to surface 27 minutes into final flow period. Gauged at 7.5 MCWD.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drilling mud 100% M	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.71	7.90
Last Gas Rate	0.13	6.89	7.97
Max. Gas Rate	0.13	6.89	7.97



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67132

DST#: 1

ATTN: Aaron Young

Test Start: 2021.08.23 @ 01:08:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Drilling mud 100% M	0.172

Total Length: 35.00 ft Total Volume: 0.172 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67132

DST#: 1

ATTN: Aaron Young

Test Start: 2021.08.23 @ 01:08:00

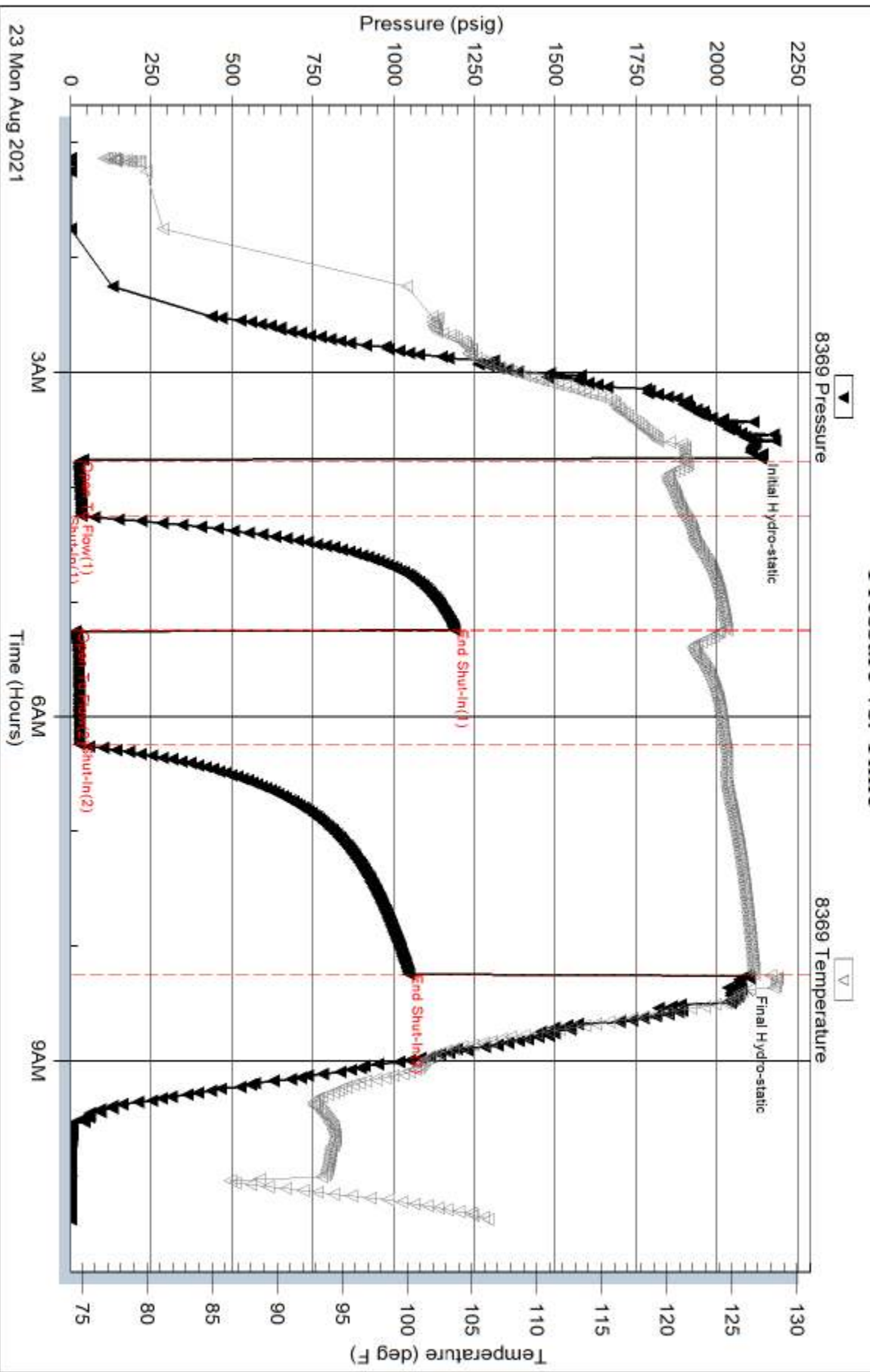
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	37	0.13	6.71	7.90
2	47	0.13	6.82	7.94
2	57	0.13	6.89	7.97
2	60	0.13	6.89	7.97

Pressure vs. Time



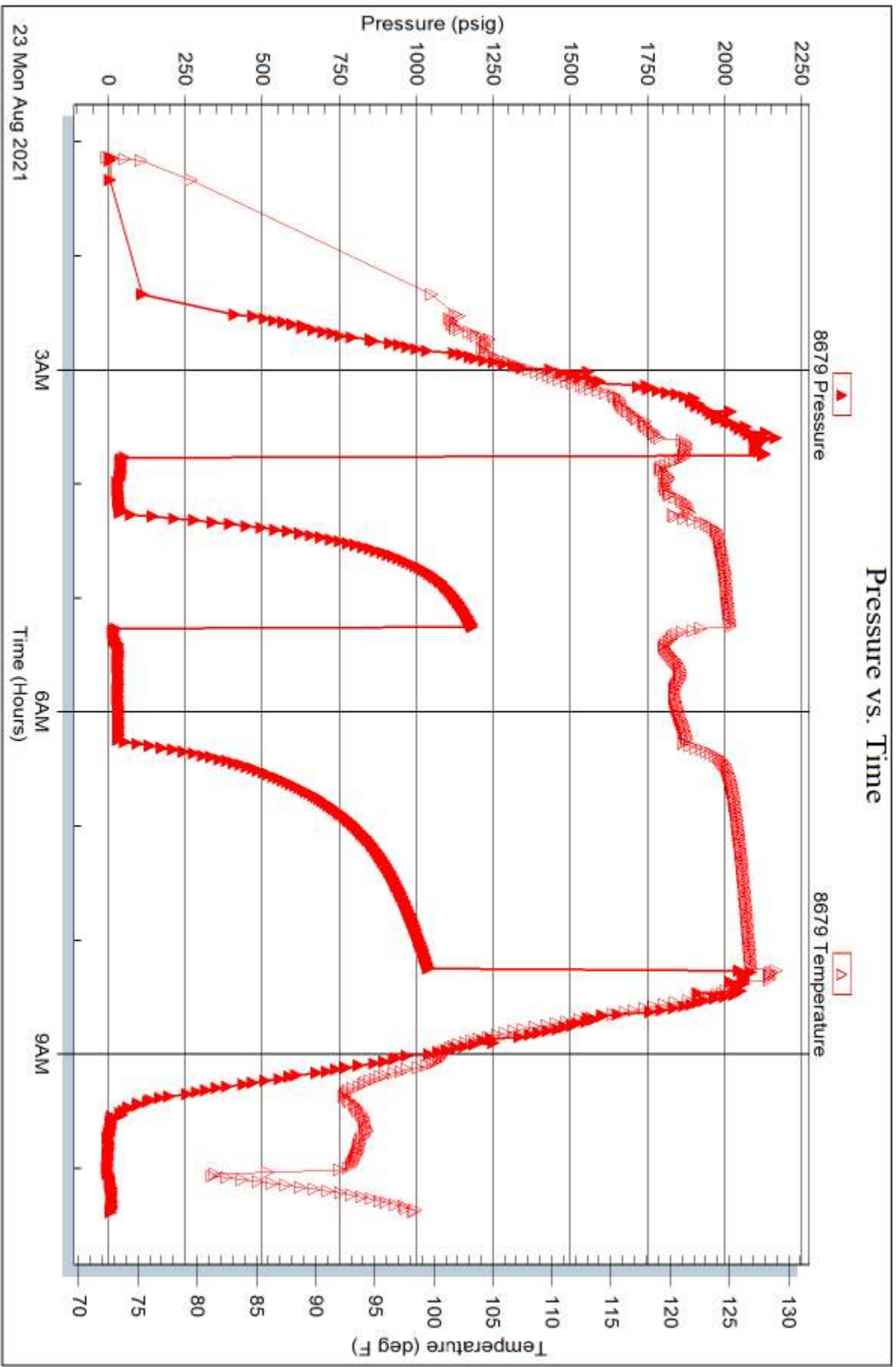
Serial #: 8679

Inside

Indian Oil Company, Inc.

Lawrenz #2-9

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67132

Printed: 2021.08.23 @ 10:50:07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67133

DST#: 2

ATTN: Aaron Young

Test Start: 2021.08.23 @ 23:45:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:50:00

Time Test Ended: 07:28:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 68

Interval: 4534.00 ft (KB) To 4590.00 ft (KB) (TVD)

Reference Elevations: 1869.00 ft (KB)

Total Depth: 4590.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8846 Outside

Press@RunDepth: 109.39 psig @ 4535.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.08.23

End Date:

2021.08.24

Last Calib.: 1899.12.30

Start Time: 23:45:01

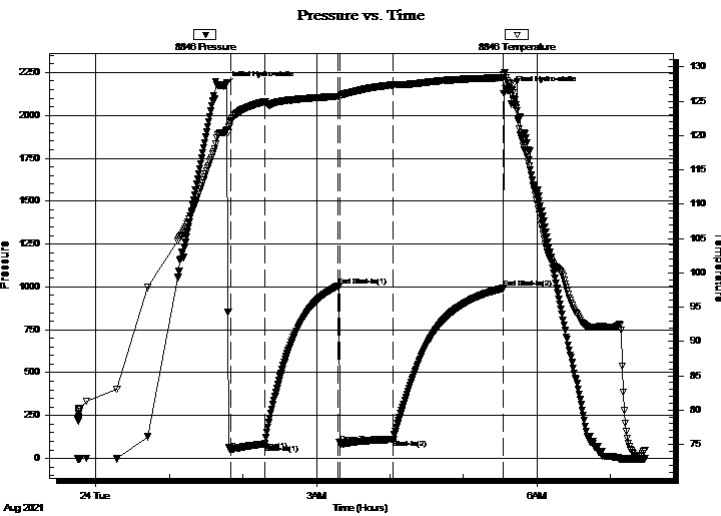
End Time:

07:28:20

Time On Btm: 2021.08.24 @ 01:45:50

Time Off Btm: 2021.08.24 @ 05:36:50

TEST COMMENT: IF - Weak blow building to strong blow 1 1/2 minutes into initial flow period. Continuing to build to 191 inches of water.
FF - Strong blow throughout final flow period. Gas to surface 45 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.29	120.55	Initial Hydro-static
5	48.99	122.05	Open To Flow (1)
32	85.11	124.93	Shut-In(1)
92	1003.80	125.71	End Shut-In(1)
94	85.98	125.70	Open To Flow (2)
137	109.39	127.38	Shut-In(2)
227	991.75	128.41	End Shut-In(2)
231	2144.38	127.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GOCM 31% G 24% O & 45% M	1.75

Gas Rates

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



DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67133

DST#: 2

ATTN: Aaron Young

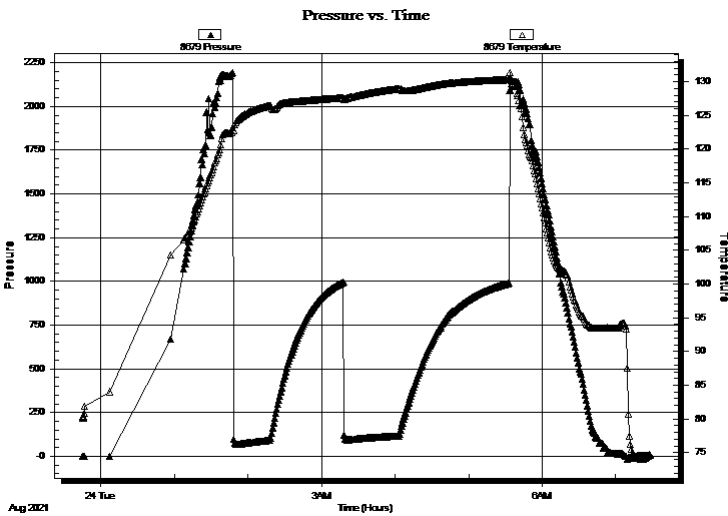
Test Start: 2021.08.23 @ 23:45:00

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:50:00 Tester: Jimmy Ricketts
 Time Test Ended: 07:28:20 Unit No: 68
 Interval: **4534.00 ft (KB) To 4590.00 ft (KB) (TVD)** Reference Elevations: 1869.00 ft (KB)
 Total Depth: 4590.00 ft (KB) (TVD) 1856.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: 8679 Inside
 Press@RunDepth: psig @ 4535.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2021.08.23 End Date: 2021.08.24 Last Calib.: 1899.12.30
 Start Time: 23:45:05 End Time: 07:28:20 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 1 1/2 minutes into initial flow period. Continuing to build to 191 inches of water.
 FF - Strong blow throughout final flow period. Gas to surface 45 minutes into final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
240.00	GOCM 31% G 24% O & 45% M	1.75

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67133

DST#: 2

ATTN: Aaron Young

Test Start: 2021.08.23 @ 23:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	GOCM 31% G 24% O & 45% M	1.745

Total Length: 240.00 ft Total Volume: 1.745 bbl

Num Fluid Samples: 0

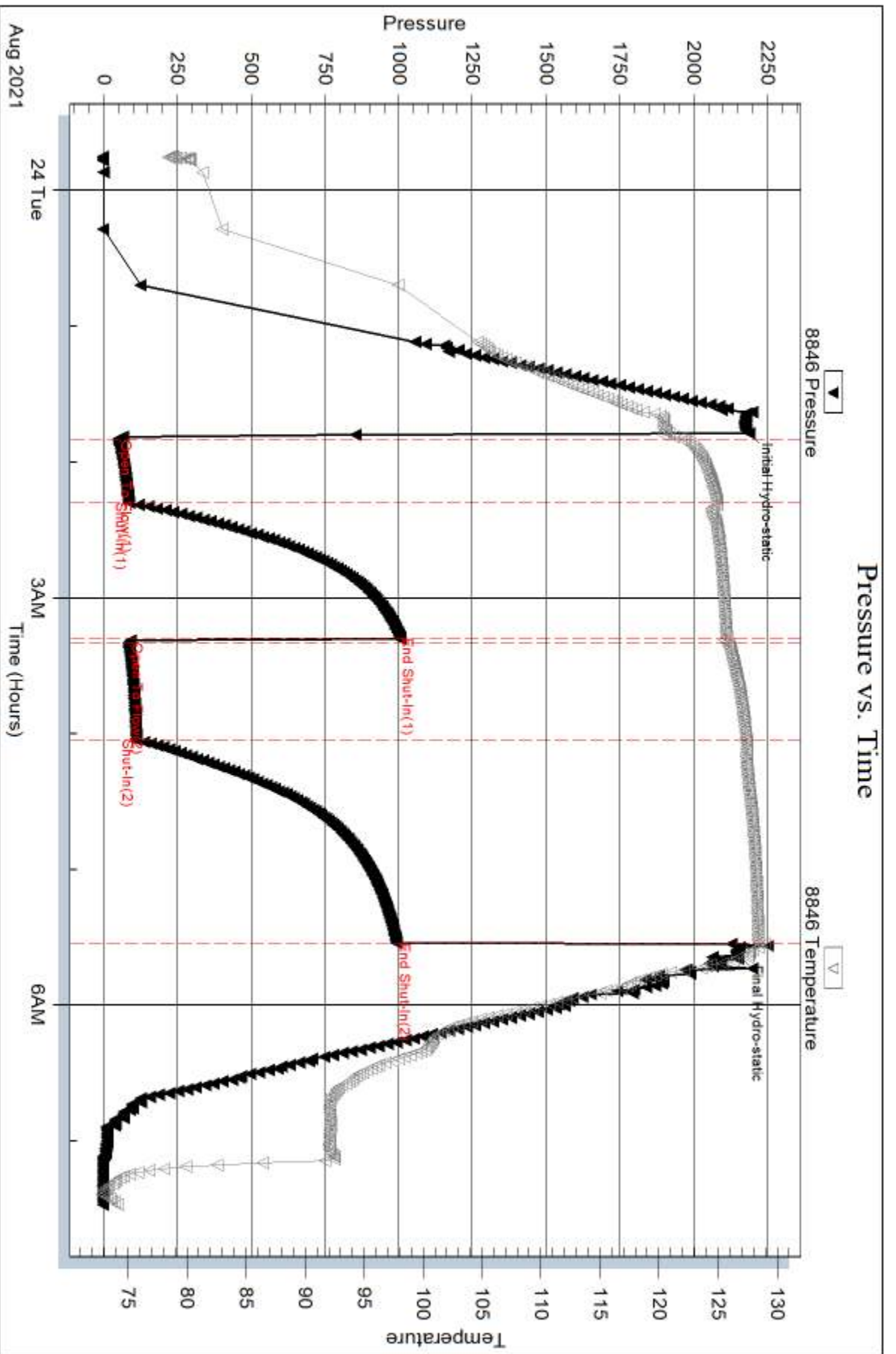
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



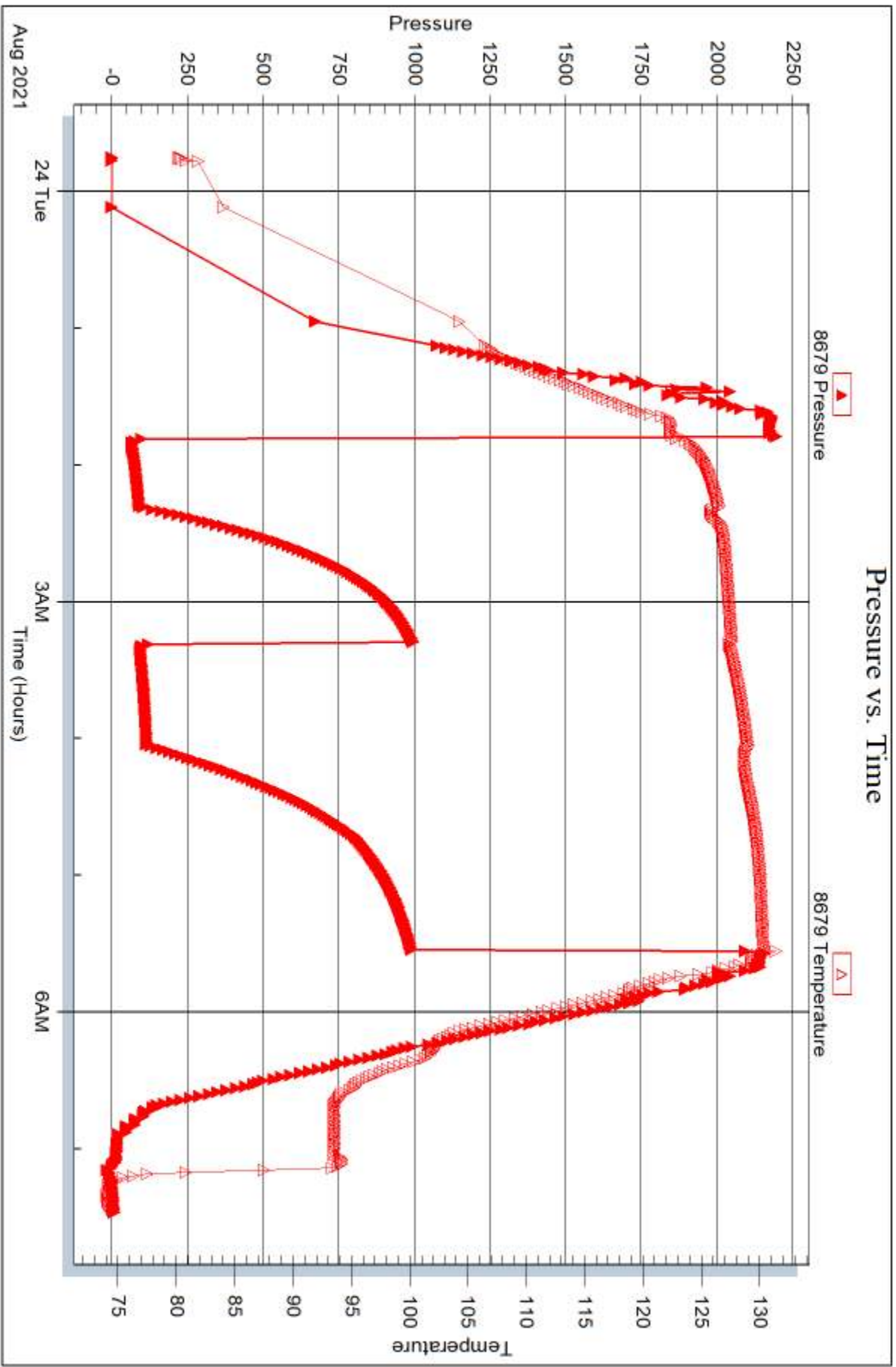
Serial #: 8679

Inside

Indian Oil Company, Inc.

Lawrenz #2-9

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 67133

Printed: 2021.08.25 @ 08:55:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67234

DST#: 3

ATTN: Aaron Young

Test Start: 2021.08.24 @ 22:13:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:30

Time Test Ended: 06:10:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 68

Interval: 4694.00 ft (KB) To 4702.00 ft (KB) (TVD)

Total Depth: 4702.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1869.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8369 Inside

Press@RunDepth: 434.94 psig @ 4695.00 ft (KB)

Start Date: 2021.08.24

End Date:

2021.08.25

Start Time: 22:13:01

End Time:

06:10:40

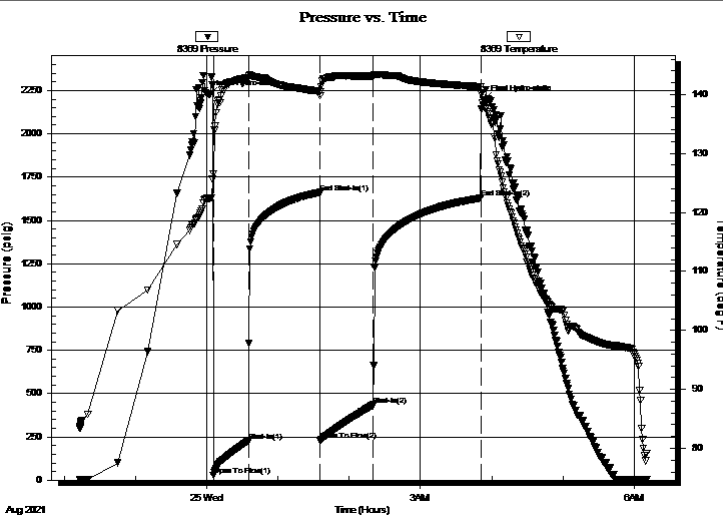
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2021.08.25 @ 00:02:50

Time Off Btm: 2021.08.25 @ 03:53:50

TEST COMMENT: IF - Weak blow building to strong blow 12 minutes into initial flow period. Continuing to build to 28 inches of water.
FF - Weak blow building to strong blow 14 minutes into final flow period. Continuing to build to 32 inches of water.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.53	122.40	Initial Hydro-static
3	28.84	126.55	Open To Flow (1)
33	227.20	142.89	Shut-In(1)
93	1661.51	140.53	End Shut-In(1)
93	230.62	139.84	Open To Flow (2)
138	434.94	143.10	Shut-In(2)
229	1628.43	141.31	End Shut-In(2)
232	2197.53	137.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
960.00	TrOVSMCW Tr O 4% M & 96% W	11.84
100.00	GIP 100% G	1.40

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67234

DST#: 3

ATTN: Aaron Young

Test Start: 2021.08.24 @ 22:13:01

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:30

Time Test Ended: 06:10:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 68

Interval: **4694.00 ft (KB) To 4702.00 ft (KB) (TVD)**

Total Depth: 4702.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1869.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 8846 **Outside**

Press@RunDepth: psig @ 4695.00 ft (KB)

Start Date: 2021.08.24

End Date:

2021.08.25

Start Time: 22:13:01

End Time:

06:10:50

Capacity: 8000.00 psig

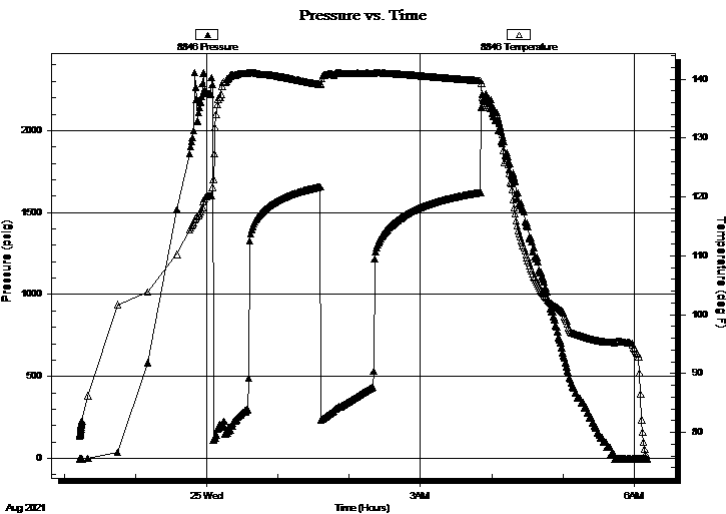
Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 12 minutes into initial flow period. Continuing to build to 28 inches of water.
FF - Weak blow building to strong blow 14 minutes into final flow period. Continuing to build to 32 inches of water.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
960.00	TrOVSMCW Tr O 4% M & 96% W	11.84
100.00	GIP 100% G	1.40

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Indian Oil Company, Inc.

9/30S/13W Barber, KS

Lawrenz #2-9

Job Ticket: 67234

DST#: 3

ATTN: Aaron Young

Test Start: 2021.08.24 @ 22:13:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 11.19 in³

Resistivity: ohm.m

Salinity: 9500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
960.00	TrOVSMCW Tr O 4% M & 96% W	11.845
100.00	GIP 100% G	1.403

Total Length: 1060.00 ft Total Volume: 13.248 bbl

Num Fluid Samples: 0

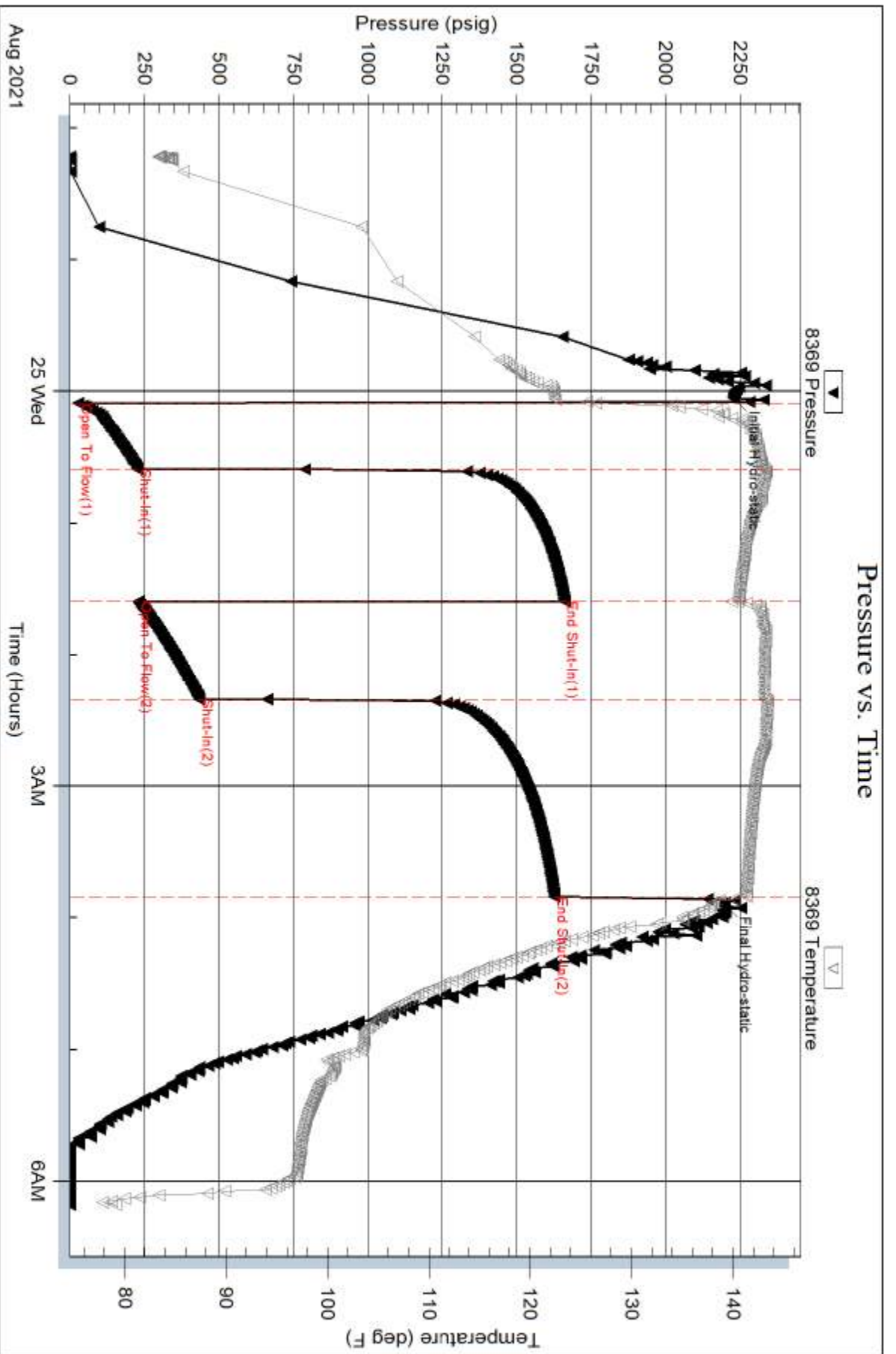
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

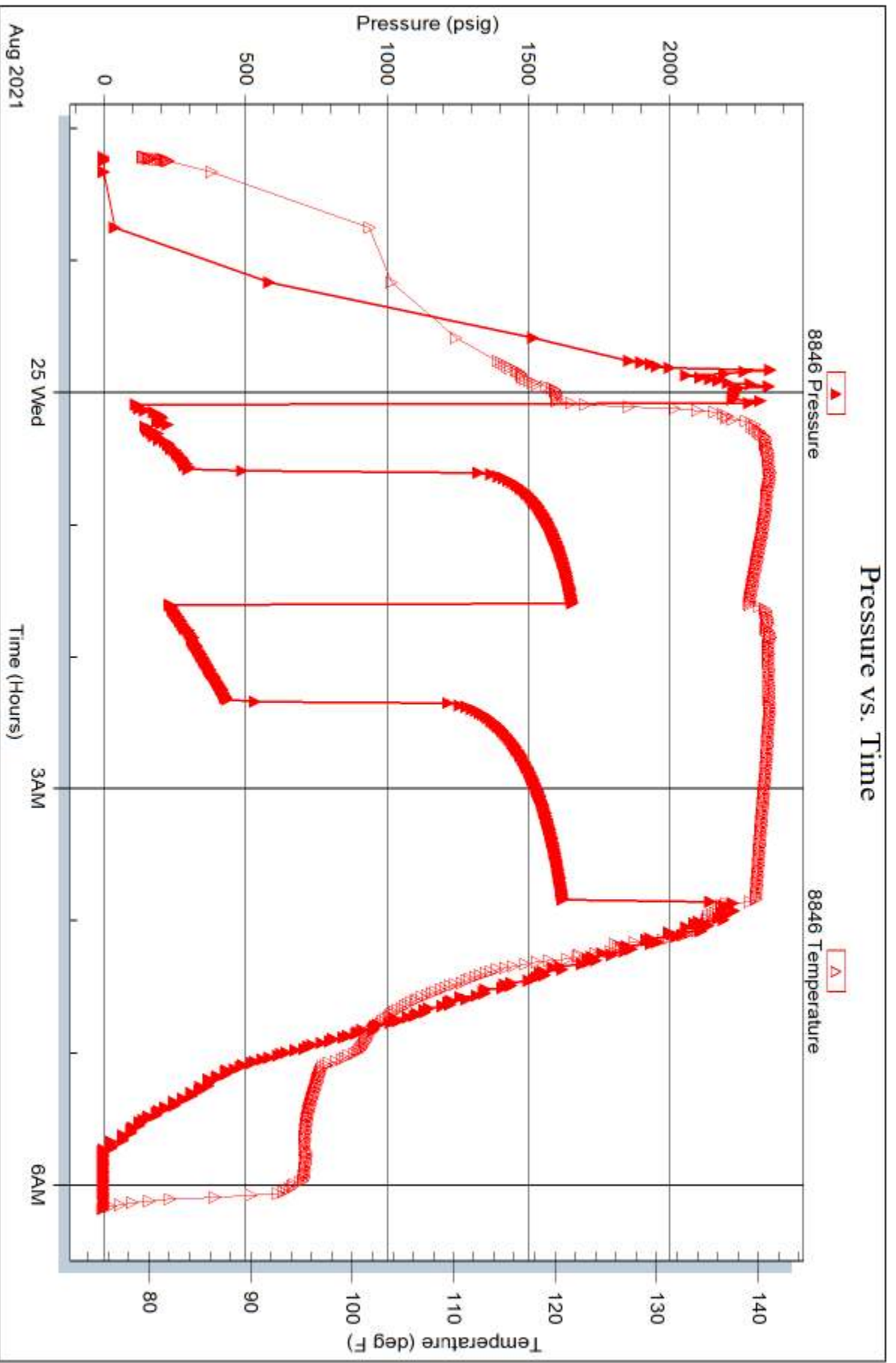


Serial #: 8846

Outside Indian Oil Company, Inc.

Law renz #2-9

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67234

Printed: 2021.08.25 @ 07:09:05

Geologic Report
Aaron L. Young

Drilling Time and Sample Log

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

Well Name: Lawrenz #2-9
API: 15-007-24384
Location: Section 09 - T30S - R13W
License Number: 31938
Spud Date: 08/18/2021
Surface Coordinates: 500' FSL and 600' FEL
Region: Barber Co., KS
Drilling Completed: 08/25/2021

Bottom Hole
Coordinates:
Ground Elevation (ft): 1856' K.B. Elevation (ft): 1868'
Logged Interval (ft): 3950' To: 4770' Total Depth (ft): 4770'
Formation: Arbuckle
Type of Drilling Fluid: Chemical - MudCo

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Indian Oil Co., Inc
Address: PO Box 209
Medicine Lodge, KS 67104-0209

GEOLOGIST

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

General Info

CONTRACTOR: Fossil Drilling Rig #3

BIT RECORD:

No.	Size	Make	Jets	Out	Feet	Hours
1	17-1/5	JZ MV-IPG	15-15-15	260'	260'	3.0
2	14-1/4	Varel Tooth	16-16-16	1017'	757'	11.5
3	7-7/8	Taurex TXT 515	3x18s 2x16s	4770'	3753'	65.5

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 4,000-14,000 lbs. on bit and approx 80-110 RPM.
Running 10 stands of collars; 598.04'
Pumping approx 980 psi at standpipe @ 54 SPM

Daily Status

08/18/21 Spud @ 11:30am
08/19/21 Drilling @ 505'
08/20/21 Drilling @ 1588'
08/21/21 Drilling @ 3070'
08/22/21 Drilling @ 4130'
08/23/21 DST #1, TD @ 4468'
08/24/21 DST #2, TD @ 4590'
08/25/21 DST #3 @ 4702'. Reached TD, RTD @ 4770', Logged
08/26/21 Ran 114 joints new 5.5" 15.50# production casing. Set at 4753'. 21.22 shoe joint. Cem with 150 sx H-long mix. Plug down at 12:30pm. Cmt rat and mouse with 50 sx 60/40 poz.

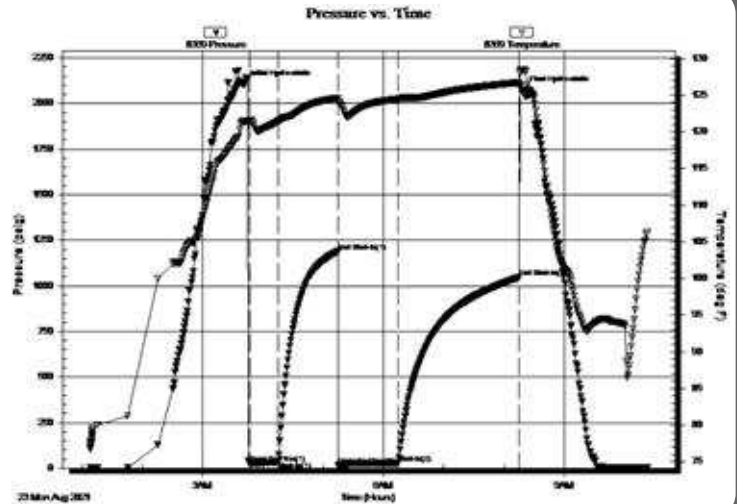
DST #1 Miss & Kinderhook 4392'-4468'
30-60-60-120

IF: Weak blow building to strong, continuing to 219"
SI: No return
FF: Strong blow throughout. GTS in 27 min, gauged 7.5 mcf/d
FSI: No return

Rec'd: 35' Drilling Mud (100% M)

GTS: Gauged 7.5 mcf/d

SIP: 1189-1047# FP: 28-34#, 15-28# HP: 2106-2072#

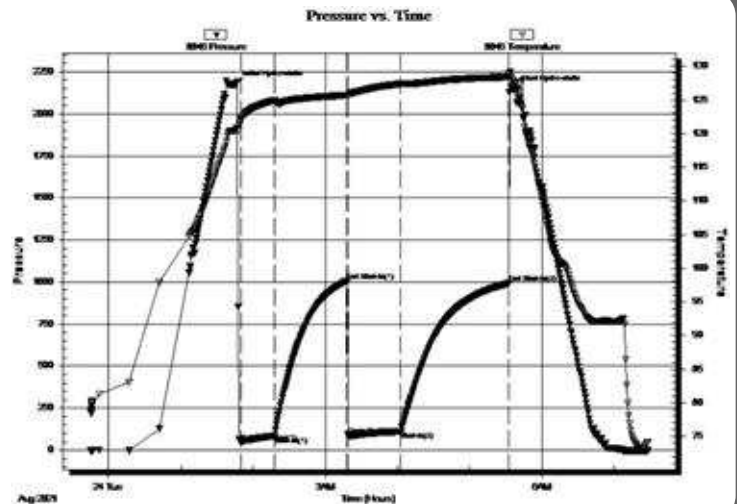


DST #2 Viola 4534'-4590'
30-60-45-90

IF: Weak blow building to strong 1.5 min, continuing to 191"
SI: No return
FF: Strong blow throughout. GTS in 45 min in to ff
FSI: No return

Rec'd: 240' GOCM (31% G, 24% O, 45% M)

SIP: 1004-992# FP: 49-85#, 86-109# HP: 2176-2144#



DST #3 Arbuckle 4694'-4702'
30-60-45-90

IF: Weak blow building to strong 12 min, continuing to 28"

SI: No return

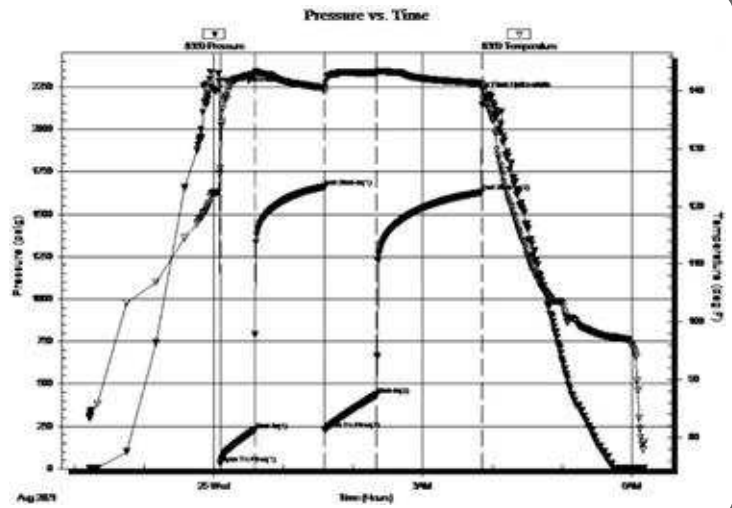
FF: Weak blow building to strong in 14 min, continuing to 32"

FSI: No return

Rec'd: 960' TrOVSMCW (Tr Oil, 4% M, 96% W), 100' GIP

SIP: 1662-1628# FP: 29-227#, 231-435#

HP: 2228-2198#



ROCK TYPES

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

ACCESSORIES

MINERAL		Salt		Fossil		Clystn	
	Anhy		Sandy		Gastro		Dol
	Arggrn		Silt		Oolite		Grysh
	Arg		Sil		Ostra		Gryst
	Bent		Sulphur		Pelec		Lms
	Bit		Tuff		Pellet		Sandylms
	Brecfrag		Chlorite		Pisolite		Sh
	Calc		Dol		Plant		Sltstn
	Carb		Sand		Strom		
	Chtdk		Silty		Fuss		
	Chtlt				Oomold		
	Dol	FOSSIL				TEXTURE	
	Feldspar		Algae	STRINGER			Boundst
	Ferrpel		Amph		Anhy		Chalky
	Ferr		Belm		Arg		Cryxln
	Glau		Bioclst		Bent		Earthy
	Gyp		Brach		Coal		Finexln
	Hvymin		Bryozoa		Dol		Grainst
	Kaol		Cephal		Gyp		Lithogr
	Marl		Coral		Ls		Microxln
	Minxl		Crin		Mrst		Mudst
	Nodule		Echin		Sltstrg		Packst
	Phos		Fish		Ssstrg		Wackest
	Pyr		Foram		Carbsh		

OTHER SYMBOLS

POROSITY TYPE

- E Earthy
- F Fenest
- X Fracture
- I Inter
- M Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- F Subrnd
- a Subang
- A Angular

OIL SHOWS

- Even
- ◉ Spotted
- ◻ Ques
- ◻ Dead
- ⊠ Gas show

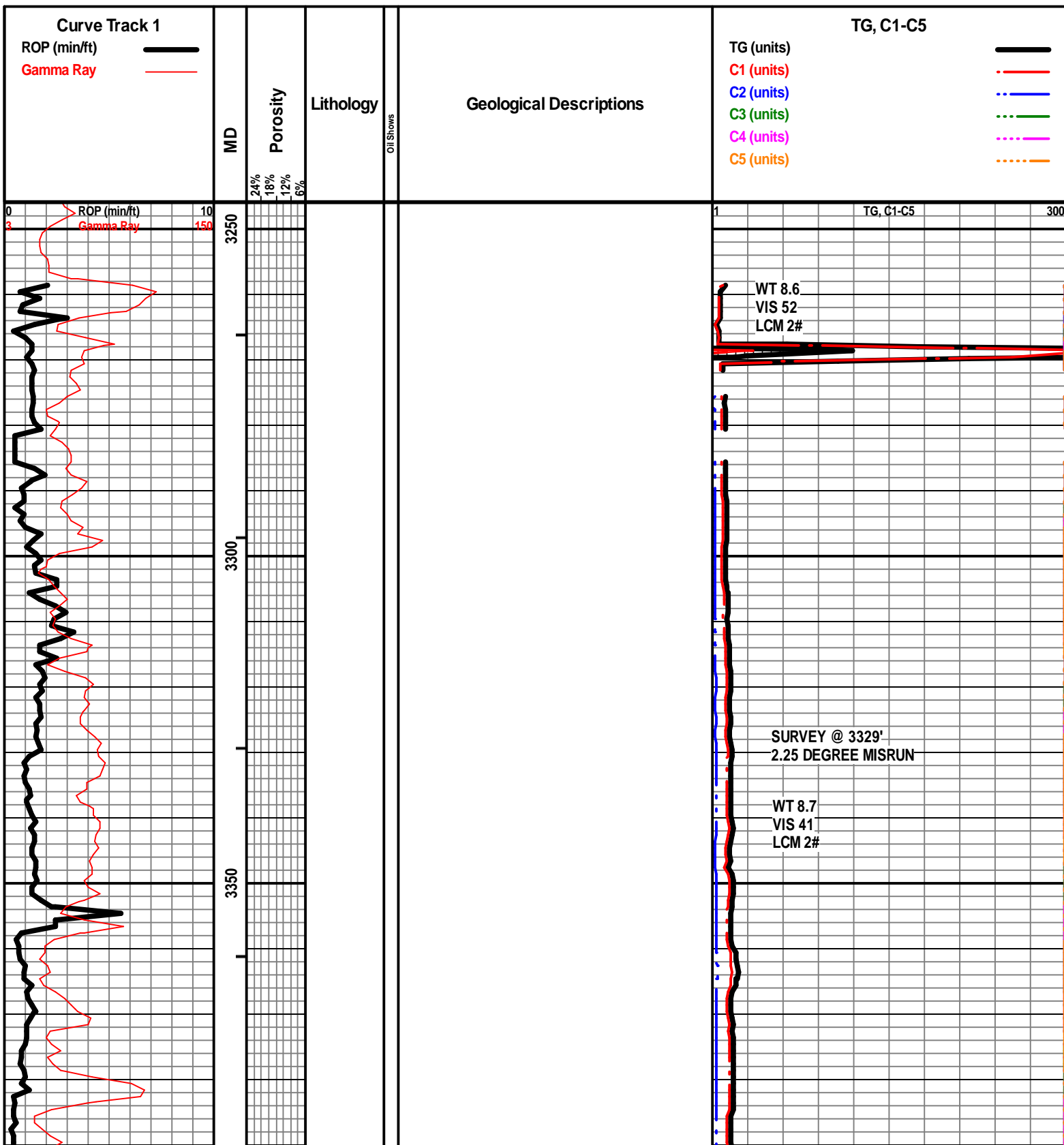
INTERVALS

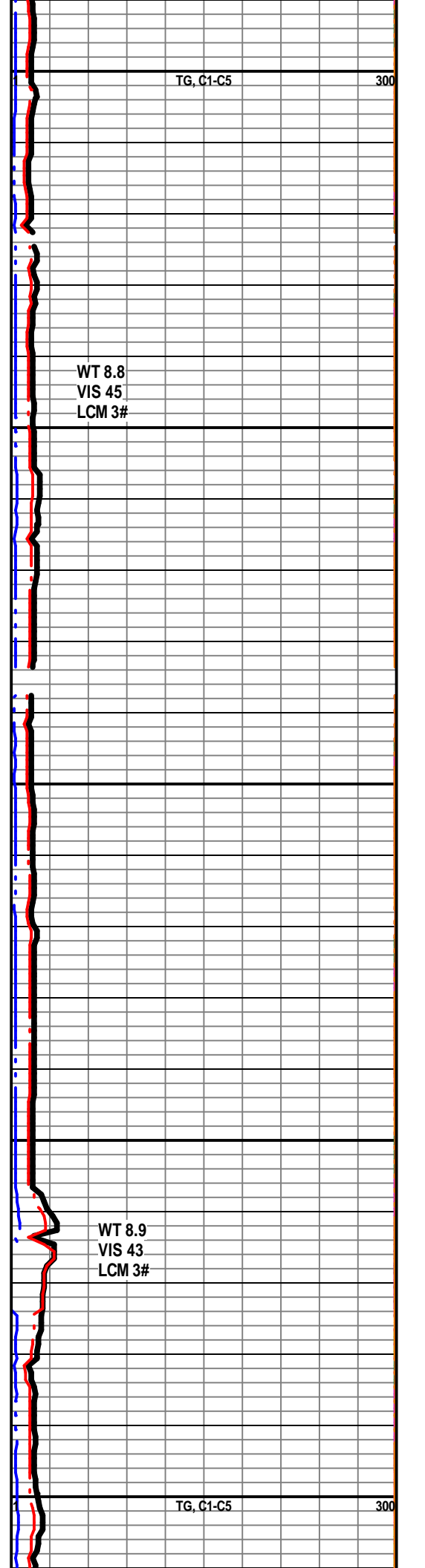
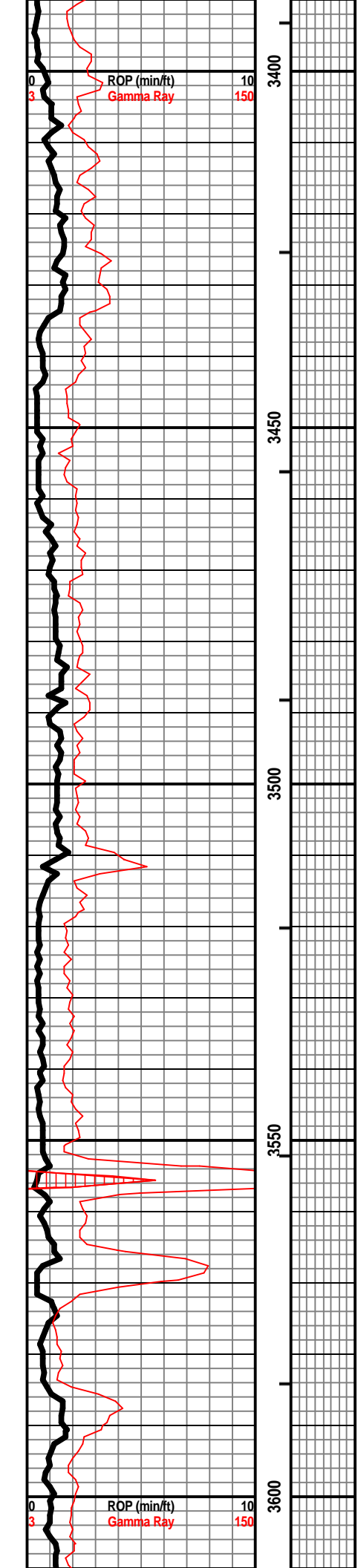
- Core
- ◻ Dst

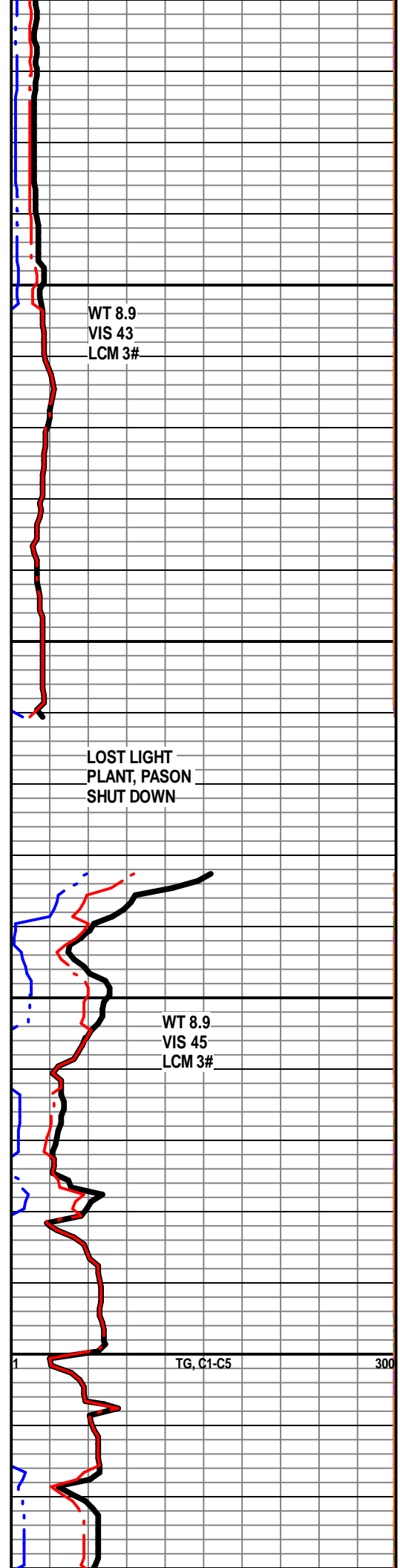
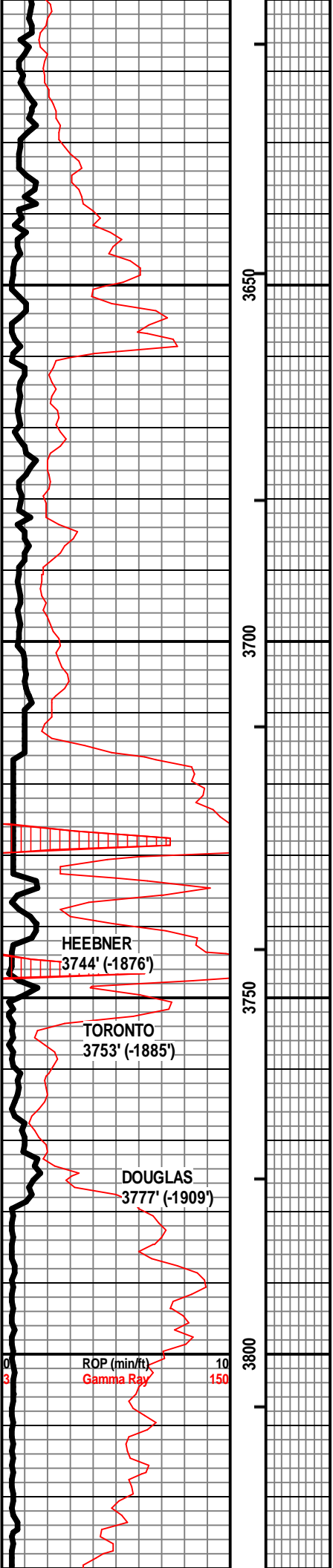
■ Dst

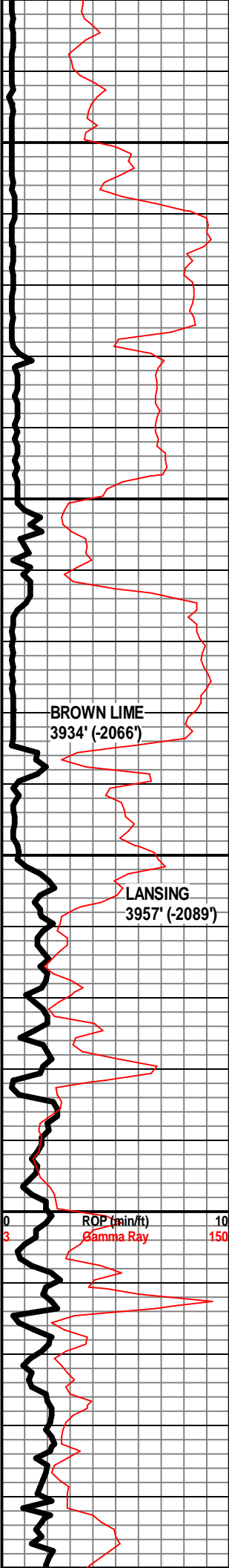
EVENTS

- ▽ Rft
- ◼ Sidewall
- ▬ Conn









3850

3900

3950

4000

50

BROWN LIME
3934' (-2066')

LANSING
3957' (-2089')

ROP (min/ft)
Gamma Ray

10
150



SH - GY, MOD DNS

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

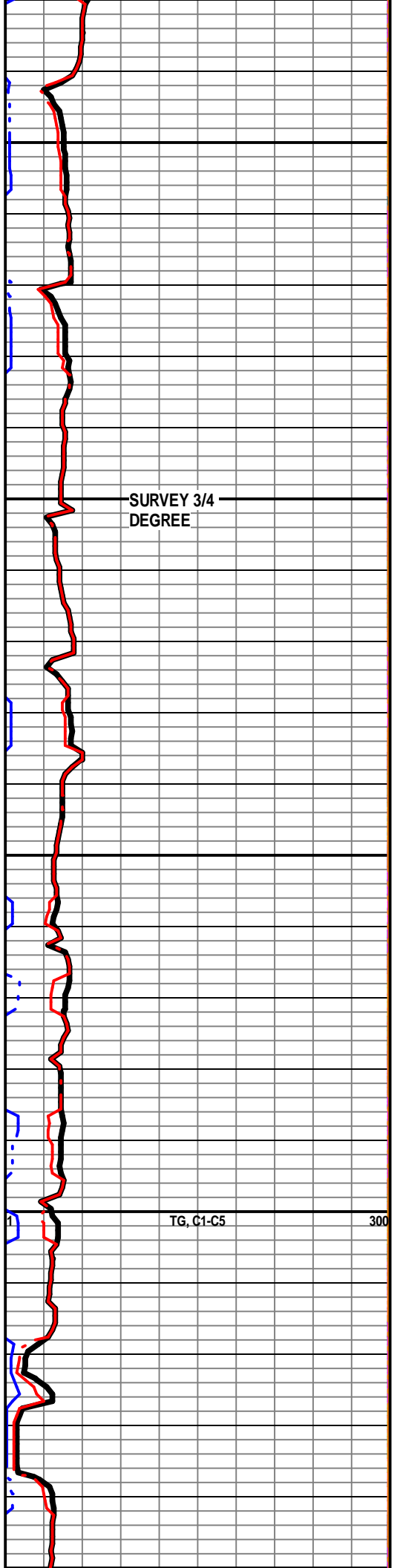
LS - CRM / TAN / GY, F XLN, MOD DNS / DSN,
SUBCHKY IN FEW PIECES, FOSS IN PT

LS - CRM / TAN / GY, F XLN, MOD DNS / DSN, W/
SH - LT GY / GY

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

LS - CRM, F XLN, P / F INTERXLN & VUG POR
IN PT, NS, ABUND FOSS IN PT, W/ SH - LT GY

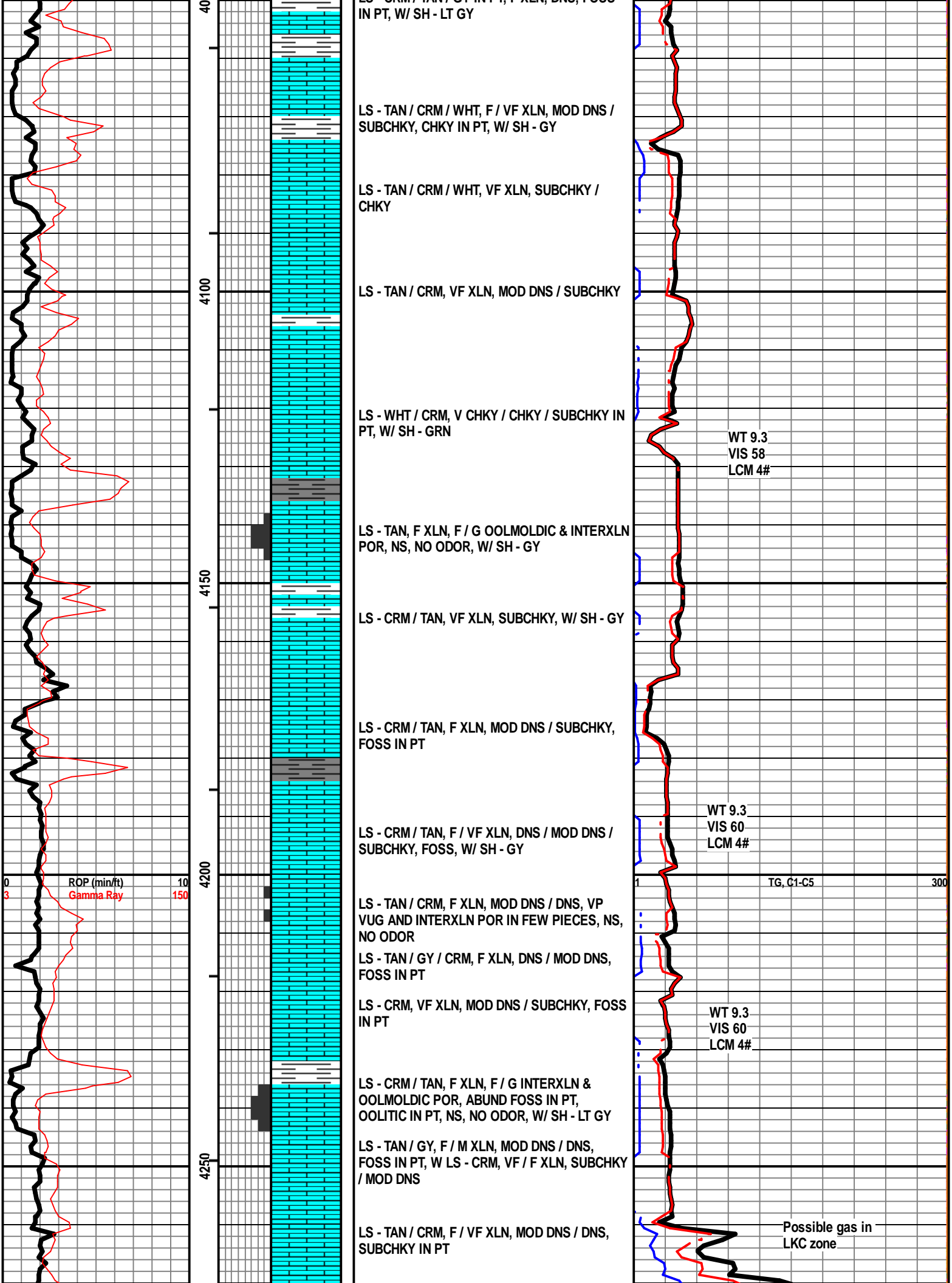
LS - CRM / TAN / GY IN PT F XLN DNS FOSS



SURVEY 3/4
DEGREE

TG, C1-C5

300



LS - CRM / TAN / GY / WHT, F / VF XLN, DNS, FOSS IN PT, W/ SH - LT GY

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

LS - TAN / CRM / WHT, VF XLN, SUBCHKY / CHKY

LS - TAN / CRM, VF XLN, MOD DNS / SUBCHKY

LS - WHT / CRM, V CHKY / CHKY / SUBCHKY IN PT, W/ SH - GRN

WT 9.3
VIS 58
LCM 4#

LS - TAN, F XLN, F / G OOLMOLDIC & INTERXLN POR, NS, NO ODOR, W/ SH - GY

LS - CRM / TAN, VF XLN, SUBCHKY, W/ SH - GY

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

WT 9.3
VIS 60
LCM 4#

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

TG, C1-C5

LS - TAN / CRM, F XLN, MOD DNS / DNS, VP VUG AND INTERXLN POR IN FEW PIECES, NS, NO ODOR

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

LS - CRM, VF XLN, MOD DNS / SUBCHKY, FOSS IN PT

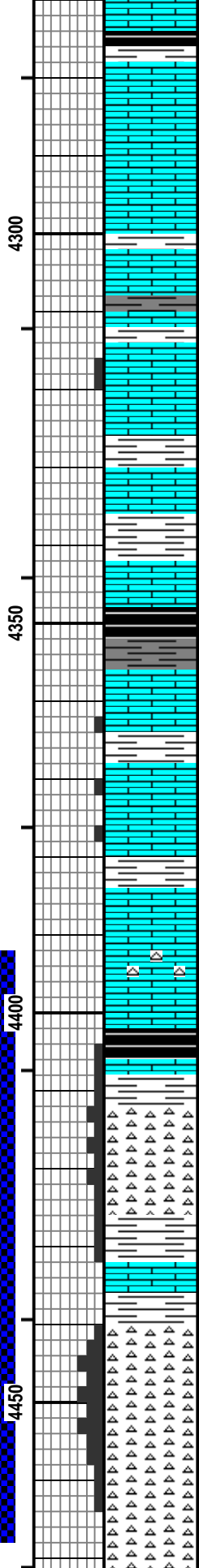
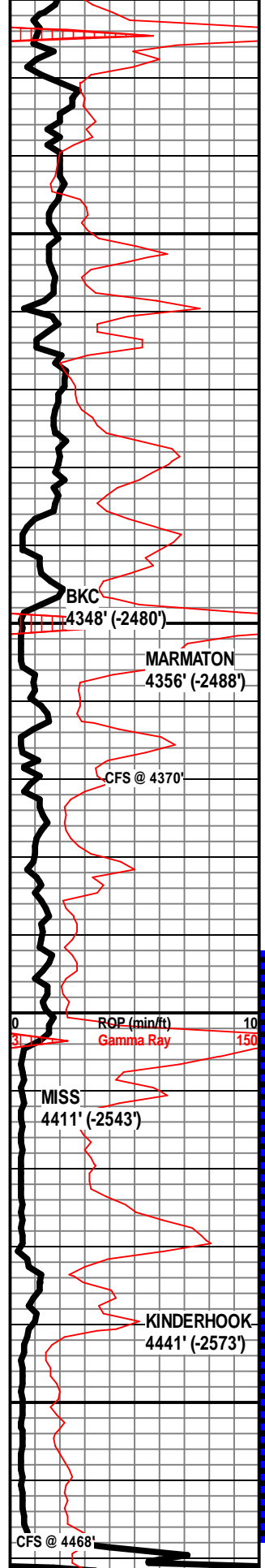
WT 9.3
VIS 60
LCM 4#

LS - CRM / TAN, F XLN, F / G INTERXLN & OOLMOLDIC POR, ABUND FOSS IN PT, OOLITIC IN PT, NS, NO ODOR, W/ SH - LT GY

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

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

Possible gas in LKC zone



SH - BLK, CARB, W/ LS - CRM / TAN, F XLN, MOD DNS, W/ SH - LT GY / GRN

LS - TAN / CRM, VF / F LXN, MOD DNS / DNS

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

LS - TAN / CRM, F / M XLN, DNS, W/ SH - GY

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

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

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

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

LS - CRM / TAN, VF / F XLN, PRED MOD DNS / DNS, VP INTERXLN POR IN FEW PIECES, VSSFO IN ONE PIECE, NO FLUOR, W/ SH - RD / GRN

LS - CRM, VF XLN, SUBCHKY, VP INTERXLN POR IN PT, SLI STN IN PT, NO LIVE OIL, W/ SH - GRN

LS - TAN, F / M XLN, MOD DNS, W/ SH - GRN, W/ CHT - CLR / TAN, TRANSLUCNT, FRSH

SH - BLK, CARB

CHT - CLR / WHT, TRANLUCNT IN PT, P WEATH POR, VSSFO, SLI CUP ODOR, DULL YEL-GRN FLOUR IN SHOW ROCKS, W/ LS - GY / TAN, F XLN, PRED DNS / MOD DNS, VP INTERXLN POR IN PR, VSSFO IN PT

CHT - WHT, PRED OPAQ, PRED VP / P WEATH POR, ABUND STN AND EDGE STN, F WEATH POR IN FEW PIECES, VSSFO, SAT STN, SHO OF GAS WHEN BROKEN, FOSS IN PT, BRI YEL-GRN FLUOR IN A FEW PIECES, PARTIAL MINERAL FLUOR

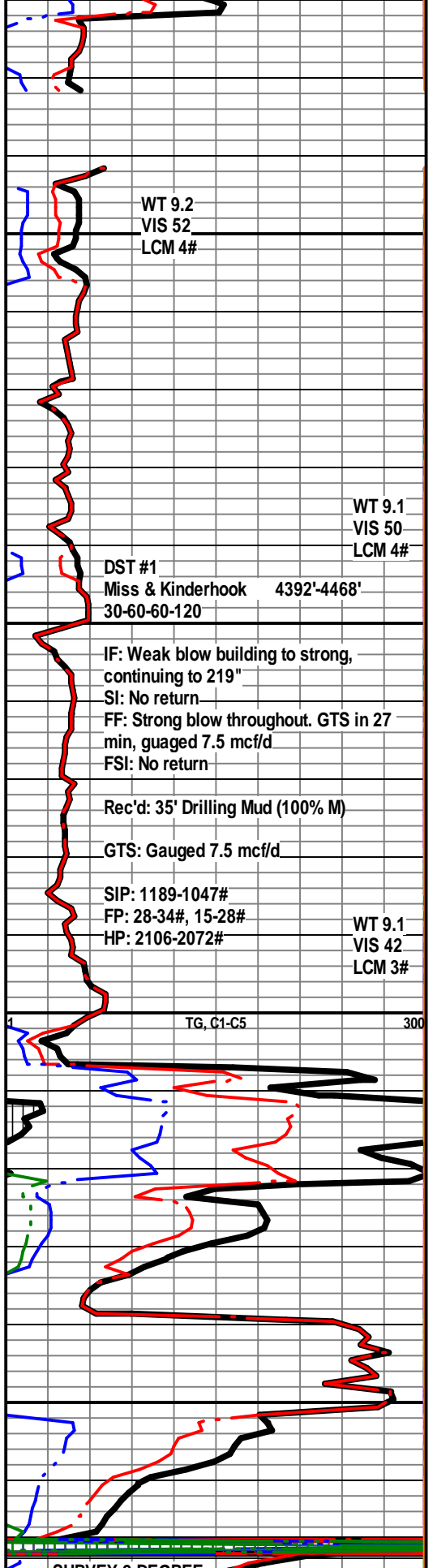
SH - GY / GRN / RD

CHT - WHT, PRED OPAQ, F WEATH POR, SSFO, ABUND SAT, SHO OF GAS WHEN BROKEN, ABUND FOSS IN PT, V DULL / NO FLOUR, SLI CUP ODOR

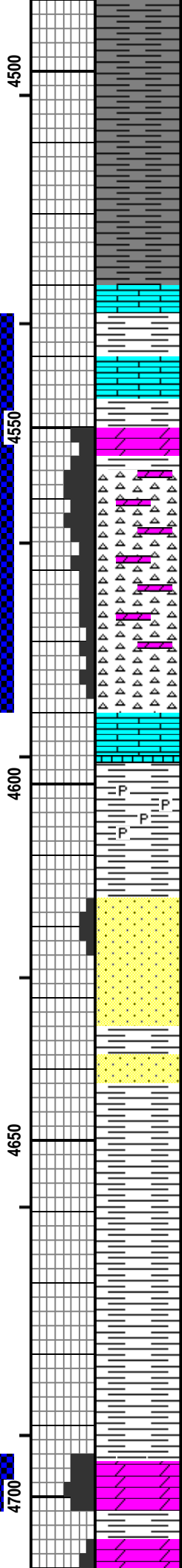
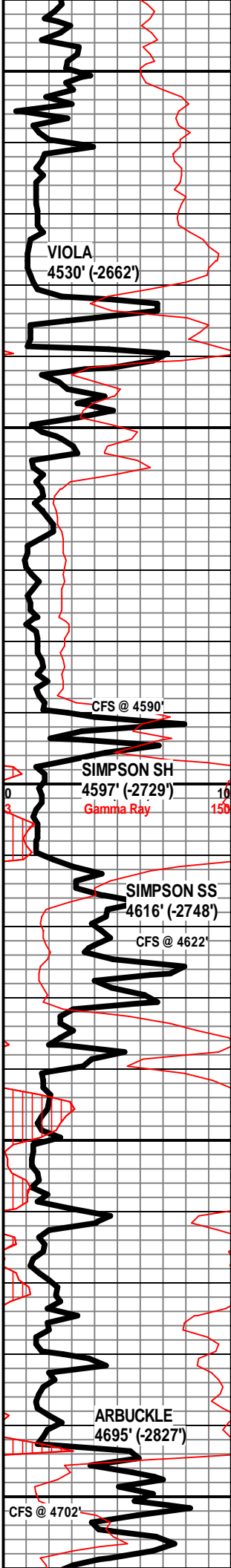
CHT - WHT / TAN, SLI TRANSLUCNT, PRED FRSH, FEW PIECES WITH EDGE WEATH & EDGE STN

SH - GY / GRN / MAR, RD-ORNG IN PT

SH - GY / GRN, MAR IN PT



REDUCED WEIGHT ON BIT DO TO 2 DEGREE SURVEY



SH - GRN / GY

SH - GY / GRN

SH - GRN / GY

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

● CHT - WHT, 30% FRSH, 70% WEATH, PRED F / F WEATH POR, P WEATH POR IN PT, DOLOMITIC IN PT SHO OF GAS BUB, FSFO IN PT, COMP SAT STN IN PT, FEW PIECES OF DOLO - BLK, F XLN, G INTERXLN POR, COMP SAT STN, FSFO, BRI YEL-GRN FLUOR,

● CHT - WHT / GY, 60% FRSH, 40% P / F WEATH & TRIP POR IN PT, DOLOMITIC IN PT, SSFO, COMP SAT STN IN PT, G SHO OF GAS, G CUP ODOR, MOD YEL-GRN FLUOR

● CHT - WHT, PRED FRSH, FEW PIECES IS EDGE WEATH AND EDGE STN

LS - CRM, VF XLN, SUBCHKY / MOD DNS

SH - GRN, WAXY IN PT, ABUND OF VF PYRITE PIECES EMBEDDED IN SH

SS - CLR / GY, VF GR, SUB-ANG / SUB-RND, W SRD, P / F INTERGR POR, NS, P CEM, V FRI, NO ODOR, GLAUC IN PT, ARG IN PT, PYRITIC IN PT, W/ SH - GRN, SLI WAXY, NOT MUCH SAND IN SAMPLE TRAY, V FRI

SS - CLR / WHT, F XLN, SUB-RND, MOD SRD, P CEM, P / F INTERGR POR, FRI, NS, NO ODOR

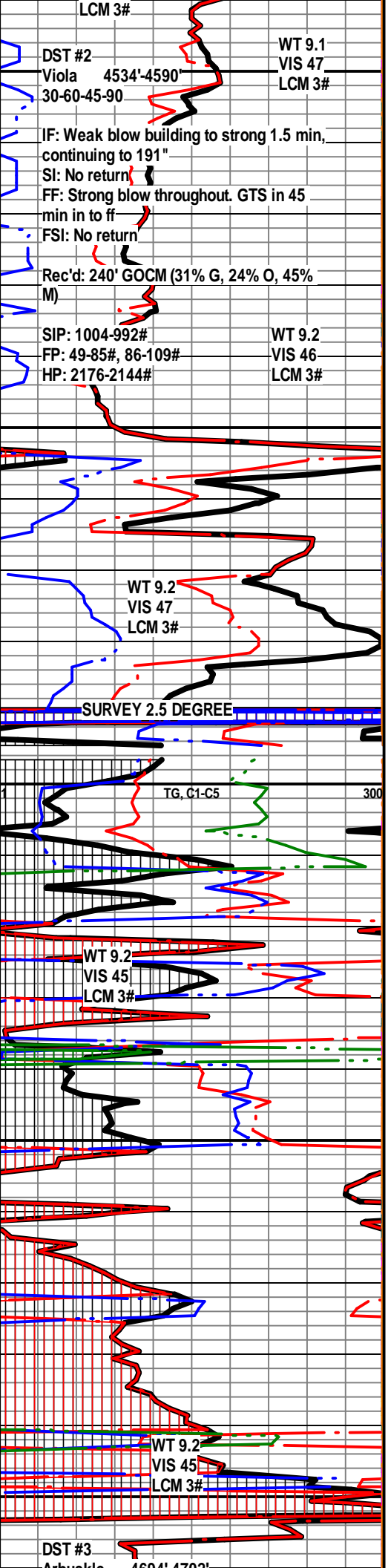
SH - GY / MAR / GRN

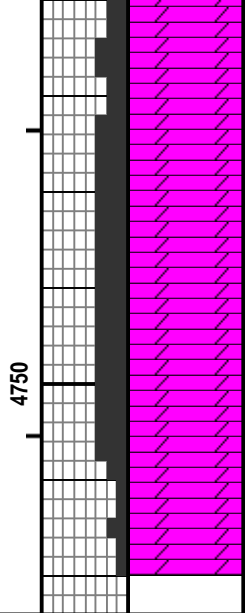
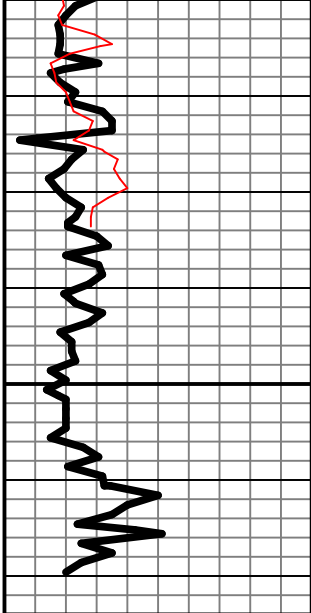
SH - GY / GRN / MAR / RD-ORNG IN PT

SH - GY

DOLO - TAN, F XLN, F / G INTERXLN & VUG POR, RHOMBIC IN PT, SUC IN POR, FSFO, SLI CUP ODOR, STRONG ODOR WHEN BROKEN, BRI YEL-GRN FLUOR, DNS IN PT

SAMPLE QUALITY POOR





DOLO - TAN, F / M XLN, MOD DNS / DNS, W/ SH
- GRN / GY

DOLO - TAN / CRM, F / M XLN IN PT, PRED DNS /
MOD DNS, SUCROSIC IN PT, SUCROSIC
PIECES HAVE F INTERXLN POR, NS

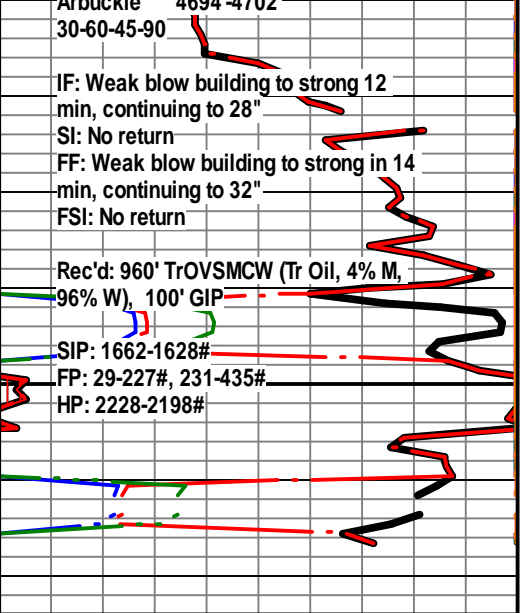
DOLO - TAN / CRM, F XLN, SLI SUCROSIC, F
INTERXLN POR, VUG POR IN FEW PIECES, NS

DOLO - CRM / TAN, OFF-WHT IN PT, SUCROSIC
IN PT, F / G INTERXLN POR, NS

DOLO - CRM / TAN, F / M XLN, MOD DNS / DNS

DOLO - CRM / OFF-WHT, VF / F XLN, MOD DNS /
SUBCHKY IN PT

RTD 4774'





HURRICANE SERVICES INC

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

Rwd 9/13/21

Customer:
INDIAN OIL CO INC
PO BOX 209
MEDICINE LODGE, KS 67104-0209

Invoice Date: 8/26/2021
Invoice #: 0355160
Lease Name: Lawrenz
Well #: 2-9 (New)
County: Pratt, Ks
Job Number: WP1782
District: Pratt

8700 - Completion

Date/Description	HRS/QTY	Rate	Total
Longstring	0.000	0.000	0.00
H-Long	150.000	24.640	3,696.00
H-Plug	50.000	11.440	572.00
Cello Flake	39.000	1.540	60.06
5 1/2" Floatshoe-Flapper AFU	1.000	330.000	330.00
5 1/2" LD Plug & Baffle	1.000	308.000	308.00
5 1/2" Turbolizers	8.000	70.400	563.20
Cement baskets 5 1/2"	1.000	264.000	264.00
Mud flush	500.000	0.880	440.00
Liquid KCL Substitute 2	1.000	17.600	17.60
Light Eq Mileage	15.000	1.760	26.40
Heavy Eq Mileage	15.000	3.520	52.80
Ton Mileage	137.000	1.320	180.84
Cement Pump Service	1.000	1,320.000	1,320.00
Cement Plug Container	1.000	220.000	220.00

Total 8,050.90

TERMS: Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

SALES TAX: Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

WE APPRECIATE YOUR BUSINESS!




Customer	INDIAN OIL	Lease & Well #	LAWRENZ 2-9	Date	8/26/2021
Service District	PRATT,KS	County & State	PRATT,KS	Legals S/T/R	9-30S-13W
Job Type	LONGSTRING	<input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No	Ticket #
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
75	LESLEY	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
176-521	OSBORN	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
182-256	MICHEAL	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
Comments					
5 1/2" LONGSTRING					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	150.00	\$3,696.00
CP055	H-Plug	sack	50.00	\$572.00
CP120	Cello-flake	lb	39.00	\$60.06
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$330.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$308.00
FE135	5 1/2" Turbolizer	ea	8.00	\$563.20
FE130	5 1/2" Cement Basket	ea	1.00	\$264.00
CP170	Mud Flush	gal	500.00	\$440.00
AF056	Liquid KCL Substitute 2	gal	1.00	\$17.60
M015	Light Equipment Mileage	mi	15.00	\$26.40
M010	Heavy Equipment Mileage	mi	15.00	\$52.80
M020	Ton Mileage	tm	137.00	\$180.84
C015	Cement Pump Service	ea	1.00	\$1,320.00
C050	Cement Plug Container	job	1.00	\$220.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$8,050.90
<p>Based on this job, how likely is it you would recommend HSI to a colleague?</p> <p style="text-align: center;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </p> <p style="text-align: center;"> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely </p>		Total Taxable \$	-
		Tax Rate:	
		Sale Tax:	\$ -
		Total:	\$ 8,050.90
HSI Representative:			

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

X  _____ **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: INDIAN OIL	Well: LAWRENZ 2-9	Ticket: WP 1782
City, State:	County: PRATT,KS	Date: 8/26/2021
Field Rep: ANTHONY FARRAR	S-R-T: 9-30S-13W	Service: LONGSTRING

Downhole Information		15.5#	Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in		Blend:	H-LONG	Blend:	
Hole Depth:	4771 ft		Weight:	15.0 ppg	Weight:	ppg
Casing Size:	5 1/2 in		Water / Sx:	6.0 gal / sx	Water / Sx:	gal / sx
Casing Depth:	4752 ft		Yield:	1.42 ft ³ / sx	Yield:	ft ³ / sx
Tubing / Liner:	in		Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
PLUG DEPTH:	ft		Depth:	ft	Depth:	ft
Tool / Packers:			Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft		Excess:		Excess:	
Displacements:	112.6 bbls		Total Slurry:	0.0 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	150 sx	Total Sacks:	0 sx	

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
4:30AM			-	-	ON LOCATION
8:00AM			-	-	RUN 5 1/2" X 15.5# CASING
					TURBOLIZERS-2,5,6,7,8,9,11,12
					BASKET- BOTTOM OF #4
10:15AM					CASING ON BOTTOM
10:30AM					HOOK UP TO CASING AND BREAK CIRCULATION WITH RIG PUMP AND MUD
11:45AM	6.0	350.0	5.0	5.0	KCL H2o AHEAD
11:47AM	6.0	300.0	12.0	17.0	MUDFLUSH
11:52AM	6.0	300.0	5.0	22.0	KCL H2o SPACER
11:54AM	6.0	200.0	37.9	59.9	MIX 150 SKS H-LONG CEMENT @ 15 PPG
12:00PM				59.9	SHUT DOWN- CLEAR PUMP AND LINES- DROP LATCH DOWN PLUG
12:10PM	6.0	-	-		START DISPLACEMENT
12:23PM	5.0	300.0	80.0		LIFT PRESSURE
12:27PM	4.0	800.0	100.0		SLOW RATE
12:30PM	3.0	1,500.0	112.6		PLUG DOWN- HELD
					CIRCULATION THRU JOB
					PLUG RATHOLE WITH 30 SKS H-PLUG CEMENT
					PLUG MOUSEHOLE WITH 20 SKS H-PLUG CEMENT
					JOB COMPLETE,
					THANKS- KEVEN AND CREW

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBORN	176-521	5.3 bpm	469 psi	353 bbls
Bulk #1:	MICHEAL	182-256			
Bulk #2:					