KOLAR Document ID: 1601334

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 # 5004
Name: Vincent Oil Corporation
Address 1: 200 W DOUGLAS AVE #725
Address 2:
City: WICHITA State: KS Zip: 67202 + 3023
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Dudgeon
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 #:

9/14/2021 Spud Date or Recompletion Date
9/23/2021 Date Reached TD
9/24/2021 Completion Date or Recompletion Date

API No.: 15-057-21056-00-00
Spot Description:
SW - NE - SW - NE Sec. 8 Twp. 26 S. R. 24 ☐ East ☑ West
1874 Feet from ☑ North / ☐ South Line of Section
1895 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: LIX Well #: 1-8
Field Name:
Producing Formation: D&A
Elevation: Ground: 2532 Kelly Bushing: 2544
Total Vertical Depth: 5070 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 399 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: 18200 ppm Fluid volume: 1010 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Edison Operating Company LLC
Lease Name: Tom Wilmore 6-32-17 License #: 34434
Quarter NW Sec. 6 Twp. 32 S. R. 17 ☐ East ☑ West
County: Comanche Permit #: D30954

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: 01/04/2022
☐ **Confidential Release Date:** 01/04/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Deanna Garrison **Date:** 01/06/2022

Operator Name: Vincent Oil Corporation Lease Name: LIX Well #: 1-8

Sec. 8 Twp. 26 S. R. 24 ☐ East ☑ West County: Ford

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

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

Drill Stem Tests Taken *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	399	Common	275	2% Gel, 3 % CC & 1/2# Flo-seal/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

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

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

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	LIX 1-8
Doc ID	1601334

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	LIX 1-8
Doc ID	1601334

Tops

Name	Top	Datum
Heebner Shale	4192	(-1648)
Brown Limestone	4280	(-1736)
Lansing	4288	(-1744)
Stark Shale	4604	(-2060)
Base Kansas City	4718	(-2174)
Pawnee	4812	(-2268)
Cherokee Shale	4853	(-2309)
Base Penn Limestone	4952	(-2408)
Conglomerate	4962	(-2418)
Mississippian	4990	(-2446)
RTD	5070	(-2526)
LTD	5073	(-2529)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	LIX 1-8
Doc ID	1601334

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	399	Common	275	2% Gel, 3 % CC & 1/2# Flo-seal/sx

QUALITY WELL SERVICE, INC.

7764

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410
Fax 620-672-3663
Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-15-21	8	26S	24W	Ford	Ks		

Lease: Lix | Well No.: 1-8 | Location: Wright, Ks 3 E to 114th Rd

Contractor: Duke Drlg Rig #1 | Owner: 1.5 N Winto

Type Job: Surface

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size	12 1/4	T.D.	400'
Csg.	8 5/8 23#	Depth	399'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.		Shoe Joint	30
Meas Line		Displace	23.62

Charge To: Vincent Oil Corp
Street:
City: State:

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered: 350 sk Common 2% Gel 3% CC 1/2# PS Used 275

EQUIPMENT

Pumptrk 8	No.		
Bulktrk 12	No.		
Bulktrk	No.		
Pickup	No.		

Item		
Common	275 sk	
Poz. Mix		
Gel.	517#	
Calcium	776#	
Hulls		
Salt		
Flowseal	138#	
Kol-Seal		
Mud CLR 48		
CFL-117 or CD110 CAF 38		
Sand		
Handling	296	
Mileage	50/350	

JOB SERVICES & REMARKS

Rat Hole
Mouse Hole
Centralizers
Baskets
D/V or Port Collar

Ran 9 Jt's 8 5/8 23# CSG set @ 399'
Start CSG CSG on Bottom
Hook up to CSG & Break circ w/Rig
Start Pumping H2O
Start Mix & Pump, sk Common
2% Gel 3% CC 1/2# PS @ 14.8#/GAL
Shut Down Release 8 5/8 WP
Start Disp
Plug Down @ 23.62 Bbls total
Close Valve on CSG 150#
Good circ thru JOB
Circ CMT to Pit

Thank You
Please Call Again
Todd, Mike,

X Signature: Mike Gaffey

8 5/8 FLOAT EQUIPMENT

Item		
Guide Shoe	H&M 1 EA	
Centralizer	8 5/8 Wooden Plug 1EA	
Baskets		
AFU Inserts		
Float Shoe		
Latch Down		
Service Supv 1 EA		
Pumptrk Charge	Surface	
Mileage	120	
	Tax	
	Discount	
	Total Charge	

QUALITY WELL SERVICE, INC.

7771

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date 9-24-21	Sec. 8	Twp. 26S	Range 24W	County FORD	State KS	On Location	Finish

Lease LIX | Well No. 1-8 | Location Weight, KS W to 114th Rd

Contractor DUKE DRLG. RIG #1 | Owner INLAND WELL

Type Job PTA | To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 7 7/8 | T.D. 5070 | Charge To VINCENT OIL CORP

Csg. 4½ DP | Depth | Street

Tbg. Size | Depth | City | State

Tool | Depth | The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. | Shoe Joint | Meas Line | Displace | Cement Amount Ordered 220 sx 60/40 4% GEL ¼# PS

EQUIPMENT

Pumptrk 8	No.		
Bulktrk 15	No.		
Bulktrk	No.		
Pickup	No.		

JOB SERVICES & REMARKS

Rat Hole 30 sx	
Mouse Hole 20 sx	
Centralizers	
Baskets	
D/V or Port Collar	
1ST PLUG @ 1470'	
Pump H2O	
Mix & Pump 50 sx 60/40 4% GEL ¼# PS	
Disp H2O	
2nd PLUG @ 950'	
Pump H2O	
Mix & Pump 50 sx 60/40 4% GEL ¼# PS	
Disp H2O	
3rd PLUG @ 440'	
Pump H2O	
Mix & Pump 50 sx 60/40 4% GEL ¼# PS	
Disp H2O	
4th PLUG @ 60'	
20 sx 60/40 4% GEL ¼# PS	
PLUG R.M HOLE	
THANK YOU PLEASE CALL AGAIN TODD, MIKE	

Common 132 sx	
Poz. Mix 88 sx	
Gel. 757#	
Calcium	
Hulls	
Salt	
Flowseal 55#	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling 229	
Mileage 50	
FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
SERVICE SUP 1 EA	
Pumptrk Charge PTA	
Mileage 100	
Tax	
Discount	
Total Charge	

X Signature

DRILL STEM TEST REPORT

Vincent Oil Corp

200 W Douglas Ave.
Witchita,KS 67202-3023

ATTN: Tom Dudgeon

8-26-24 Ford, KS

Lix 1-8

Job Ticket: 67808 **DST#: 1**

Test Start: 2021.09.22 @ 18:20:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:13:47
Time Test Ended: 00:53:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72

Interval: 4882.00 ft (KB) To 4976.00 ft (KB) (TVD)
Total Depth: 4976.00 ft (KB) (TVD)
Hole Diameter: 6.75 inches Hole Condition: Fair

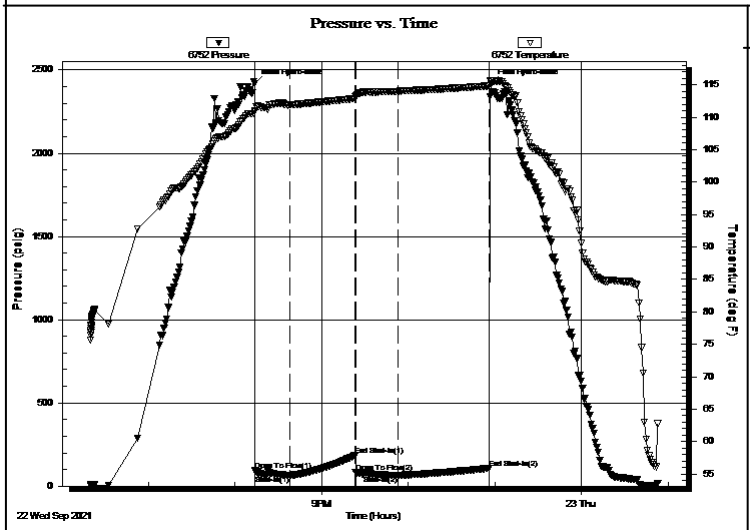
Reference Elevations: 2544.00 ft (KB)
2532.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6752 **Outside**

Press@RunDepth: 66.44 psig @ 4883.00 ft (KB)
Start Date: 2021.09.22 End Date: 2021.09.23
Start Time: 18:20:01 End Time: 00:53:02

Capacity: psig
Last Calib.: 2021.09.23
Time On Btm: 2021.09.22 @ 20:13:32
Time Off Btm: 2021.09.22 @ 22:57:17

TEST COMMENT: IF-WSB died in 8 min, flushed tool,died again in 6 min 25 min
ISI- No blow back 45 min
FF-WSB died in 2 min, flushed tool, died in 6 min 30 min
FSI- No blow back 60 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2419.80	111.01	Initial Hydro-static
1	92.10	110.81	Open To Flow (1)
25	65.30	111.89	Shut-In(1)
70	183.80	112.91	End Shut-In(1)
70	85.19	113.08	Open To Flow (2)
100	66.44	113.96	Shut-In(2)
163	106.80	114.85	End Shut-In(2)
164	2415.22	115.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corp

200 W Douglas Ave.
Witchita,KS 67202-3023

ATTN: Tom Dudgeon

8-26-24 Ford, KS

Lix 1-8

Job Ticket: 67808 **DST#: 1**

Test Start: 2021.09.22 @ 18:20:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:13:47
Time Test Ended: 00:53:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Kevin Webster
Unit No: 72

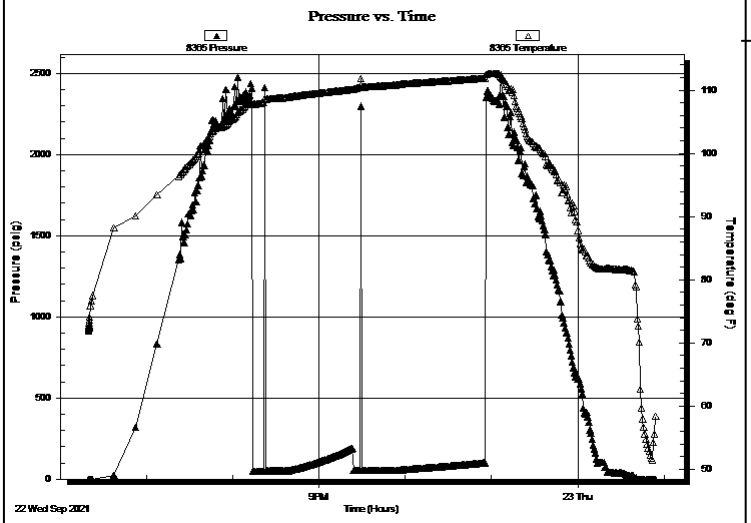
Interval: 4882.00 ft (KB) To 4976.00 ft (KB) (TVD)
Total Depth: 4976.00 ft (KB) (TVD)
Hole Diameter: 6.75 inches Hole Condition: Fair

Reference Elevations: 2544.00 ft (KB)
2532.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Inside**
Press@RunDepth: psig @ 4883.00 ft (KB)
Start Date: 2021.09.22 End Date: 2021.09.23
Start Time: 18:20:01 End Time: 00:54:02

Capacity: psig
Last Calib.: 2021.09.23
Time On Btm:
Time Off Btm:

TEST COMMENT: IF-WSB died in 8 min, flushed tool,died again in 6 min 25 min
ISI- No blow back 45 min
FF-WSB died in 2 min, flushed tool, died in 6 min 30 min
FSI- No blow back 60 min



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%Mud	0.07

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp

200 W Douglas Ave.
Witchita,KS 67202-3023

ATTN: Tom Dudgeon

8-26-24 Ford, KS

Lix 1-8

Job Ticket: 67808 **DST#: 1**

Test Start: 2021.09.22 @ 18:20:00

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1900.00 ppm				
Filter Cake:	inches				

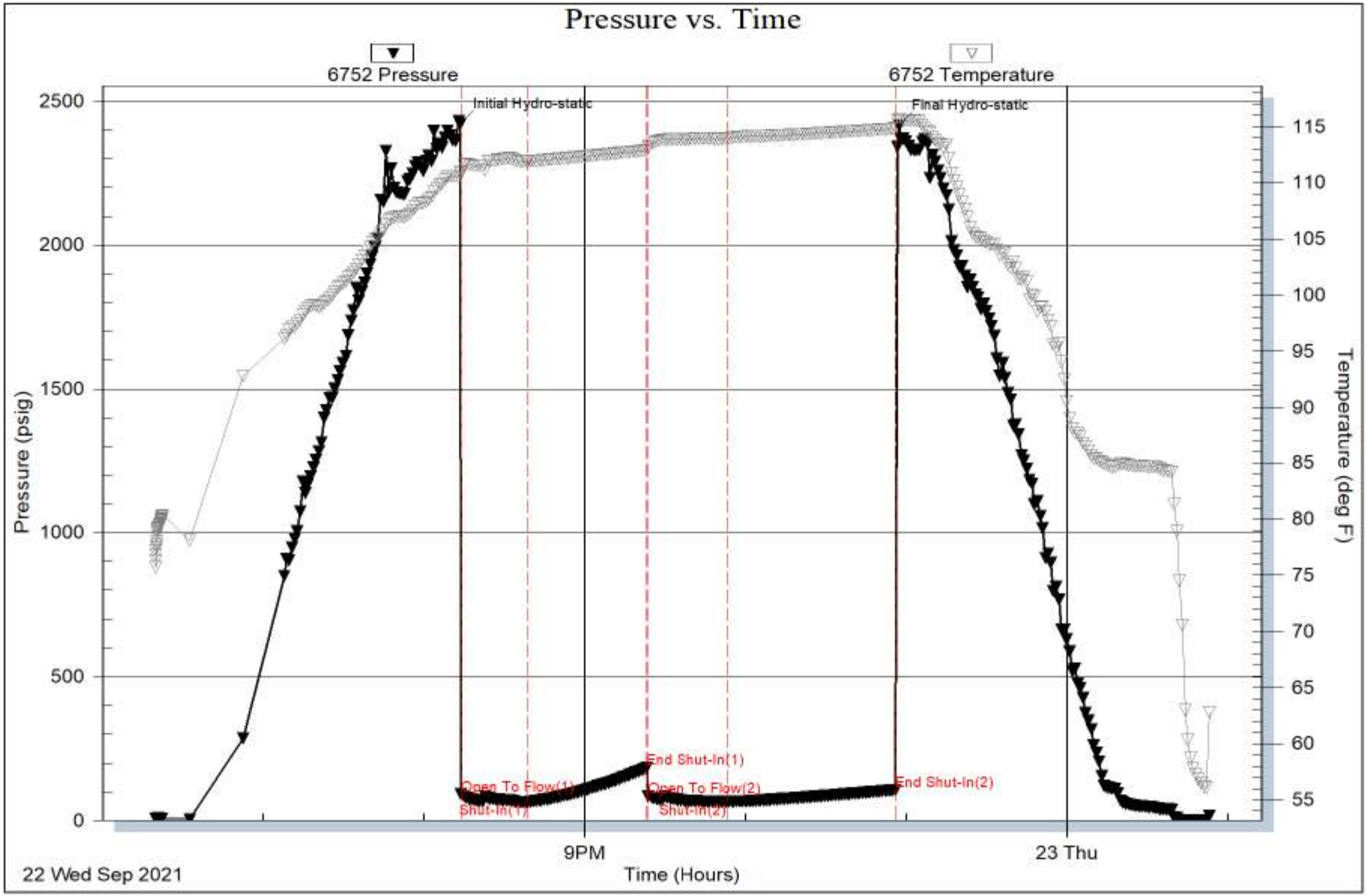
Recovery Information

Recovery Table

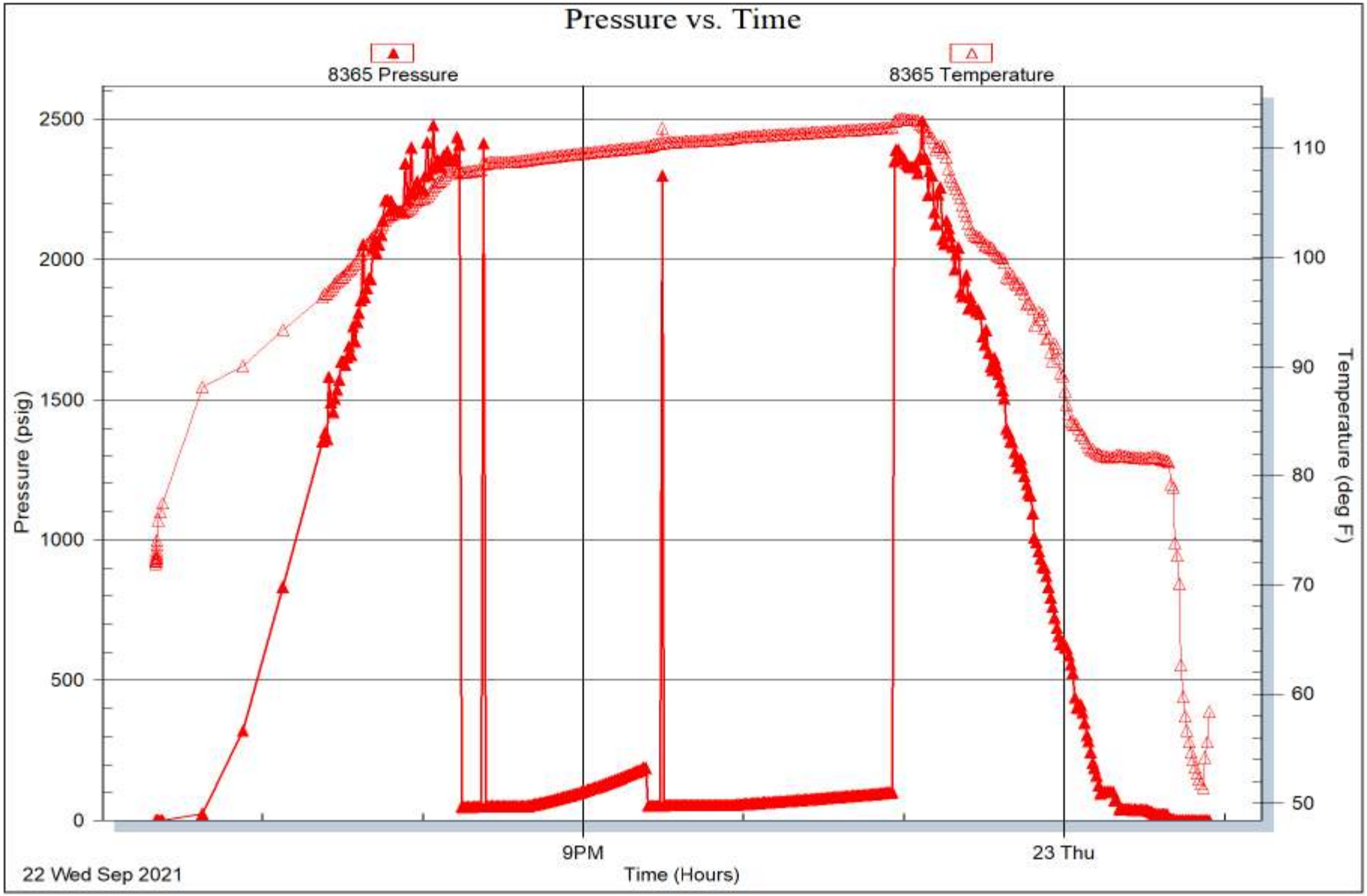
Length ft	Description	Volume bbl
5.00	100%Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

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


Pressure vs. Time
6752 Pressure
6752 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
End Shut-In(2)
Pressure (psig)
Temperature (deg F)
Time (Hours)
9PM
23 Thu
22 Wed Sep 2021
2500
2000
1500
1000
500
0
115
110
105
100
95
90
85
80
75
70
65
60
55

Serial #: 8365 **Inside** Vincent Oil Corp Lix 1-8 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 67808 Printed: 2021.09.23 @ 07:32:41

Scale 1:240 Imperial

Well Name:	LIX 1-8		
Surface Location:	1874' FNL 1895' FEL 8-26S-24W		
Bottom Location:			
API:	15-057-21056-0000		
License Number:	5004		
Spud Date:	9/14/2021	Time:	2:15 PM
Region:	MIDCON		
Drilling Completed:	9/23/2021	Time:	1:41 PM
Surface Coordinates:	37.8033623 & -99.9667076		
Bottom Hole Coordinates:			
Ground Elevation:	2532.00ft		
K.B. Elevation:	2544.00ft		
Logged Interval:	4200.00ft	To:	5070.00ft
Total Depth:	5070.00ft		
Formation:	MORROW		
Drilling Fluid Type:	CHEMICAL MUD		

OPERATOR

Company:	VINCENT OIL CORPORATION		
Address:	200 W DOUGLAS AVE STE 725 WICHITA, KS 67202		
Contact Geologist:	DICK JORDAN		
Contact Phone Nbr:	316.262.3573		
Well Name:	LIX 1-8		
Location:	1874' FNL 1895' FEL 8-26S-24W		
API:	15-057-21056-0000		
Pool:	WILDCAT	Field:	
State:	KS	Country:	USA

CONTRACTOR

Contractor:	DUKE DRILLING CO., INC.		
Rig #:	1		
Rig Type:	MUD ROTARY		
Spud Date:	9/14/2021	Time:	2:15 PM
TD Date:	9/23/2021	Time:	1:41 PM
Rig Release:	9/24/2021	Time:	9:00 AM

LOGGED BY

Company:	VINCENT OIL CORPORATION		
Address:			
Phone Nbr:	316.262.3573		
Logged By:	Geologist	Name:	TOM DUDGEON

SURFACE CO-ORDINATES

Well Type:	Vertical		

Well Type:	Vertical
Longitude:	-99.9667076
Latitude:	37.8033623
N/S Co-ord:	37.8033623
E/W Co-ord:	-99.9667076

ELEVATIONS

K.B. Elevation:	2544.00ft	Ground Elevation:	2532.00ft
K.B. to Ground:	12.00ft		

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	5070.00	5073.00
LTD	5073.00	5073.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
CHEMICAL MUD	9/14/2021	3742.00ft	5070.00ft

CASING SUMMARY

	Surface	Intermediate	Main
Bit Size	12.25 in		7.88 in
Hole Size	12.25 in		7.88 in

	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	399 ft	23#	9	9/15/2021 4:30 PM
Int Casing					
Prod Casing					

CASING SEQUENCE

Type	Hole Size	Casing Size	At
SURFACE	12.25 in	8.63	399.00 ft

OPEN HOLE LOGS

Logging Company:	ELI		
Logging Engineer:	JASON CAPPELLUCCI		
Truck #:	3802		
Logging Date:	9/23/2021	Time Spent:	
# Logs Run:	0	# Logs Run Successful:	0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5073.00ft	3.00		1
NDE/NEU/PE	4100.00ft	5073.00ft	3.00		1
MICRO	4100.00ft	5073.00ft	3.00		2
SONIC	0.00ft	5073.00ft	3.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
9/14/2021	0.00ft	5073.00ft	LOGS RAN SUCCESSFULLY

NOTES

MUD PROPERTIES @ RTD

Vis.	Wt.	W.L.	Cost
60	9.2	8.0	$17,734.00

ELEVATION: 2532 ft. G.L.- 2544 K.B.
*(Original GL lowered by 1' during pad construction)

REFERENCE WELL:
A B

STRAIGHT HOLE SURVEY

Degree	Depth
1°	1418'
1°	2397'
1°	3310'
1°	4339'
1°	4629'
1°	4976'

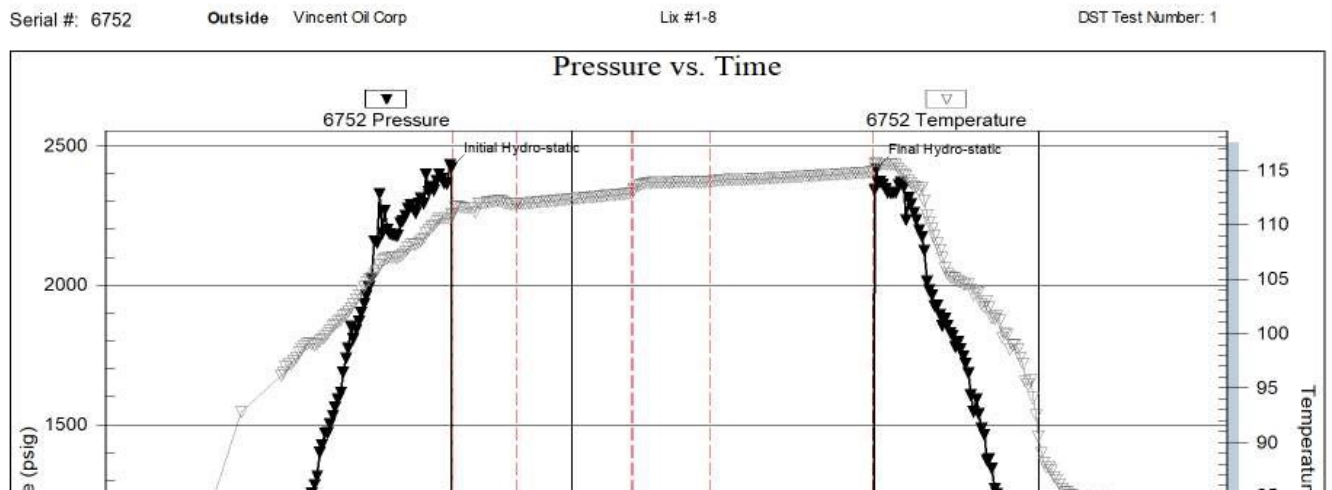
Vincent Oil Corp Vincent Oil Corporation

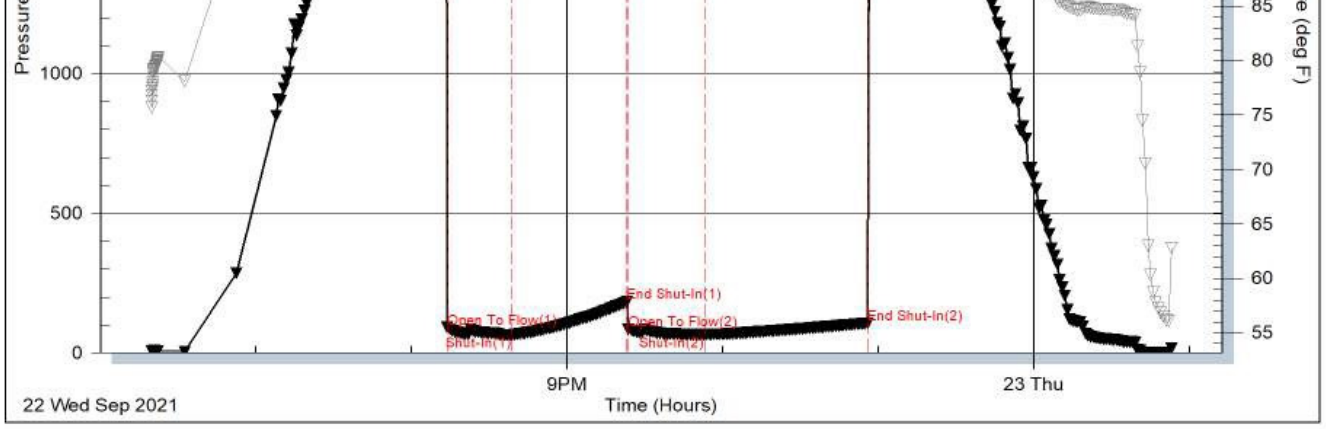
Vincent Oil Corp.	Vincent Oil Corporation		1°	4976'
Dick #1-5	Lix #1- 4			
330' FSL & 805' FWL	820' FSL & 2240' FEL			
Sec 5-26S-24W	Sec. 4-26S-24W			

SAMPLE TOPS	REF. WELL A	REF. WELL B	ELECTRIC LOG REF. WELL	ELECTRIC LOG REF. WELL A	ELECTRIC LOG REF. WELL B
Heebner Shale 4191 (-1647)	-13	-11	4192 (-1648)	-14	-12
Brown Limestone 4272 (-1730)	-5	-11	4280 (-1736)	-11	-7
Lansing-Kansas City 4287 (-1743)	-9	-3	4288 (-1744)	-10	-4
Stark Shale 4601 (-2057)	-5	Flt	4604 (-2060)	-8	-3
Hushpuckney Shale 4638 (-2094)	-7	-5	4640 (-2096)	-9	-3
Base Kansas City 4717 (-2173)	-10	-1	4718 (-2174)	-11	-2
Pawnee 4810 (-2266)	-6	-2	4812 (-2268)	-8	-4
Cherokee Shale 4853 (-2309)	-6	-1	4853 (-2309)	-6	-1
Base Penn Limestone 4953 (-2409)	-3	+3	4952 (-2408)	-2	+4
Conglomerate 4962 (-2418)	+4	+5	4962 (-2418)	+4	+5
Mississippian 4988 (-2444)	+14	+14	4990 (-2446)	+12	+12
RTD / LTD 5070 (-2526)			5073 (-2529)		

9/14/2021 Moved in rotary tools and rigged up. Spud well in at 11:45 PM 9/14/2021. Drilled 400' of 12.25" surface hole, CTCH, ran wiper trip, CTCH, rigged up casing crew.
9/15/2021 At 400' preparing to run surface casing. Ran 9 joints of new 8 5/8", 23# surface casing. Set at 399' . and cemented with 275 sx Common (2% Gel, 3% CC & ½# Flow-seal/sx). Plug was down at 7:30 AM 9/15/2-21. WOC. Drilled out from under surface casing at 4:30 PM 9/15/2021.
9/16/2021 At 1262' Drilling ahead
9/17/2021 At 2425' Checking mud pump fluid pressure, drilling ahead
9/18/2021 At 3140' Drilling ahead
9/19/2021 At 3710' Drilling ahead, Displaced mud system at 3742'
9/20/2021 At 4335' Drilling ahead. Bit trip at 4629', Pipe strap .27' Short to the Board, no correction
9/21/2021 At 4675' Drilling ahead
9/22/2021 At 4920', Drilling ahead, drilled to 4976', preparing for DST#1 4882' to 4976' (Basal Penn Limestone - Upper Morrow Interval)
DST#1 4882' to 4976' (Basal Penn Limestone - Upper Morrow Interval)
25"-45"-36"-60"
1st Open: Weak Surface Blow, Died in 8", Flushed Tool, Weak Blow, Died in 6"
2nd Open: Weak Surface Blow, Died in 2', Flushed Tool, Weak Blow, Died in 6"
Recovered:
5' Mud-
IFP: 92# - 65# FFP: 85# - 66#
ISIP: 183# FSIP: 106#
BHT 115°F
9/23/2021 At 4992' Drilling ahead, Drilled to RTD 5070', CFS & CTCH, TOOH, Rigged up to run logs. Ran full suite (DIL, Density-Neutron , Micro-log & Sonic). Found LTD at 5073'. Logging completed at 10:30 PM 9/23/2021. Orders given to plug and abandon. Nippled down BOP. TIH with bit.
9/24/2021 At 5070 Tripping out of the hole, laying down drill pipe and drill collars. Laid down Kelly and swivel. TIH with plugging stands. Loaded wellbore with heavy mud and set cement plugs as follows: 50 sx at 1470', 50 sx at 950', 50 sx at 440' and 20 sx at 60' to surface. Plugged the rathole with 39 sx and plugged the mousehole with 20 sx. Used a total of 220 sx of 60 / 40 POZ (4% Gel & ¼# Flo-seal/sx). Plug was down at 7:00 Am 9/24/2021. The pits were cleared and the rig released at 9:00 Am 9/24/2021.

DST #1





Trilobite Testing, Inc Ref. No: 67808 Printed: 2021.09.24 @ 08:19:14

ROCK TYPES

Cht	Dolsec	Shgy	Chtcongl
Coal	Lmst fw<7	Shblck	
Congl	Lmst fw7>	Shcol	

ACCESSORIES

MINERAL
- Argillaceous
- Carbonaceous Flakes
- Chert, dark
- Heavy, dark minerals
- P Pyrite
- Sandy
- Silty
- Euhed rhombs of dol or
- Chert White

FOSSIL
- Bioclastic or Fragmental
- Brachiopod
- Bryozoa
- Crinoids
- F Fossils < 20%
- Oolite

STRINGER
- Sandstone
- Shale

TEXTURE
- C Chalky
- e Earthy
- FX FinexIn
- MX MicroxIn

DUNHAM
- MS Mudst
- PS Packst
- WS Wackstone

OTHER SYMBOLS

POROSITY TYPE
- Intercrystalline
- Interoolitic
- V Vuggy
- P Pinpoint
- Moldic
- O Organic
- F Fracture
- e Earthy
- Fenestral

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

INTERVALS
- Core
- DST

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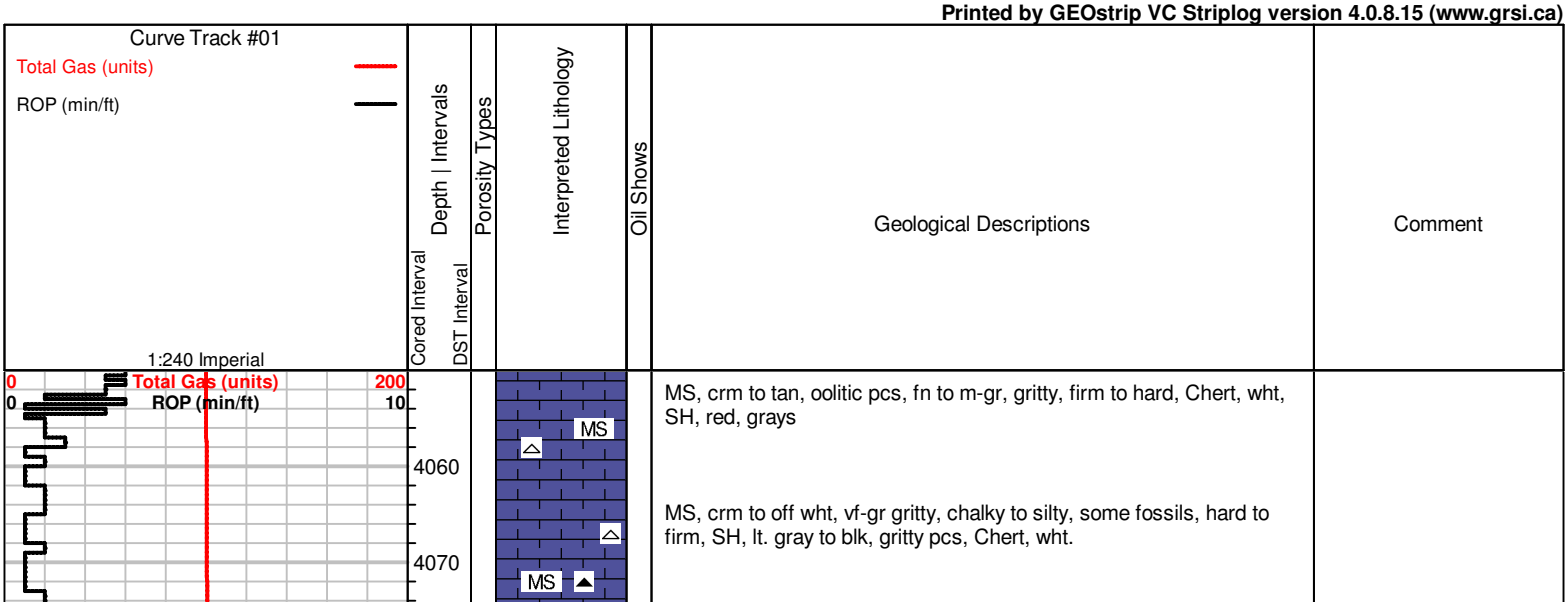
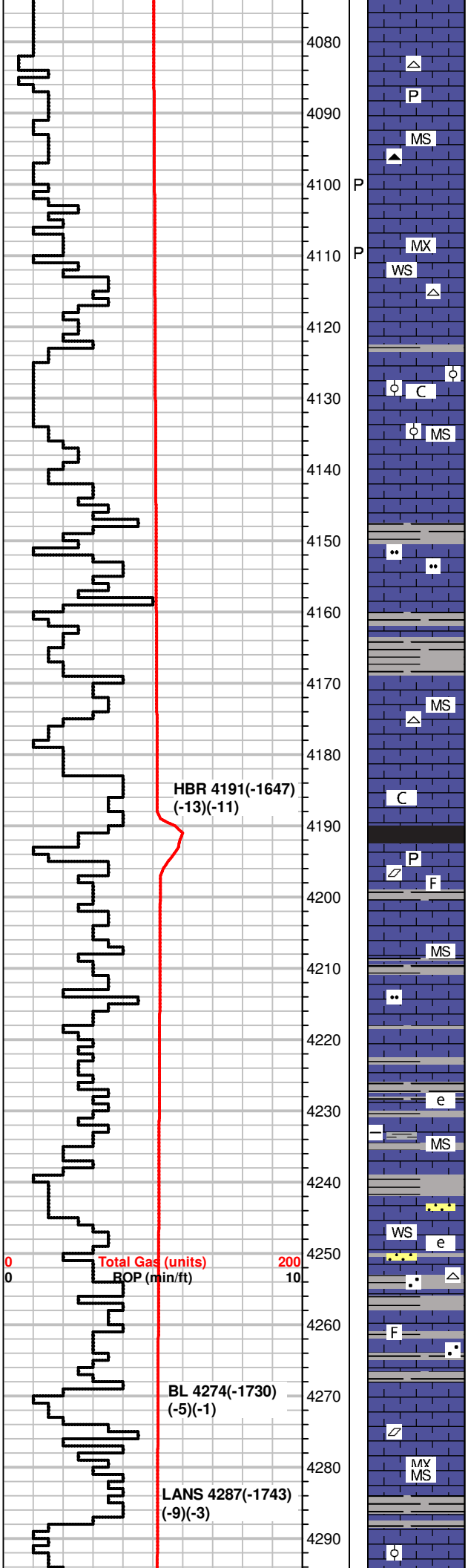




MS-WS, brn to crm/tan, co-gr to vf-gr gritty txt, hard to brittle, Chert, wht, gray, some SH, grays

MS-WS, tan to crm, f to co-gr fossil frgmts, hard to firm, some pcs mottled, pyrite, Chert, wht to gray, rare
SH, grays, sandy to silty

WS-MS, tan to crm, rare brn, some pcs sandy, massive in pt., fossilif. pcs common,, PP por. SH, dk. gray to grays, Chert, wht

MS-WS, crm to tan, sub oolitic, chalky in pt., fossilif., hard to brittle, sandy, rare SH, grays

MS, brn to tan, f-xln to massive txt., firm to dense, rare gritty pcs, scatt SH, lt. grays

inc in SH, dk. gray to gray, silty in pt., MS-WS, brn to crm, f-xln/massive, some f-gr fossilif., scatt chalky pcs, rare Chert, wht

SH, blk, grays, MS, crm to lt. gray, some tan, dense to brittle, chalky in part, some fossils, calcite, pyrite

+20 UGK, shale gas

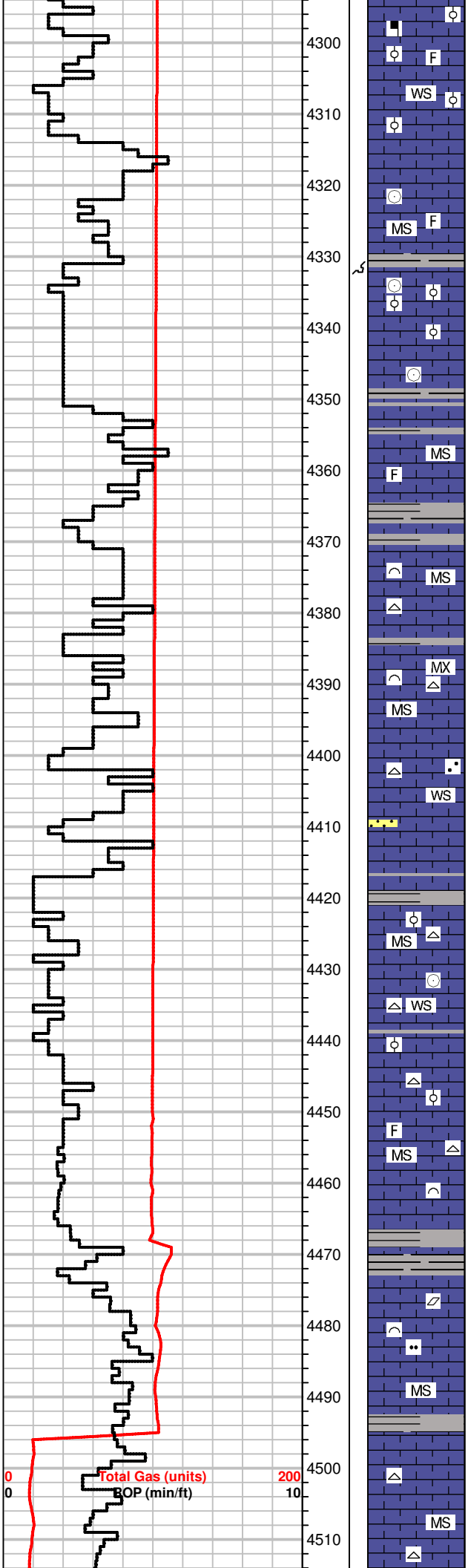
SH, blk, grays red, carrying from above, mostly MS-WS, crm to gray, f-xln, gritty in pt., waxy looking, soft, some pcs dense, NS

SH, gray to blk, blocky, dense,
MS, brn to gray, massive pcs, some earthy, hard/dense, rare shaly pcs, NS

MS-WS, gray to crm, massive to mostly f-gr gritty, some earthy pcs, hard, NS, rare Chert, wht,
SH, grays, silty to sandy

MS-WS, tan to gray, f-xln, hard to firm, rare fossils, shaly in pt., NS, rare SH, grays

MS, brn to tan, dense/massive, WS-PS, crm to off wht, f-xln tite calc mtrx, m-gr oolitic, NS, scatt SH, grays



MS-WS, brn to crm, f-xln/massive, dense, some sub oolitic pcs, fossilif, rare mottled to mineral specs, some SH, grays

MS, crm to gray, chalky to earthy, some dense, scatt fossils, crinoid stems, rare moldic pcs, gritty to sandy pcs, some SH, grays,

SH, gray to brn, silty in pt.
MS, off wht to crm, f-gr. gritty txt, mostly massive/earthy txt, firm to hard, scatt fossils, NS

some SH, grays
MS-WS, gray to crm, shaly to silty, dense, some fossils, rare Chert, wht

MS, crm to tan, f-xln, massive, brn pcs m-xln, fractured, hard to firm, fossil frgmts, Chert wht, fresh

MS-WS, mostly crm, brn, gritty pcs, fn-gr, sandy, some pcs massive, firm to dense, Chert, wht

MS-WS, brn to crm, earthy, some fossilif., moldic pcs, sandy in pt., SH, gray to green, rare Chert, wht

MS-WS, crm to tan, off whte, chalky/shaly in pt., some pcs gritty, hard to soft, scatt fossils, NS, rare moldic pcs, Chert, wht, fresh

+14 UGK, shale gas

SH, blk, carb, MS, gray to crm, f-xln/gritty to chalky txt, firm to dense, scatt fossil frgmts, rare calcite, dead wormy stn.

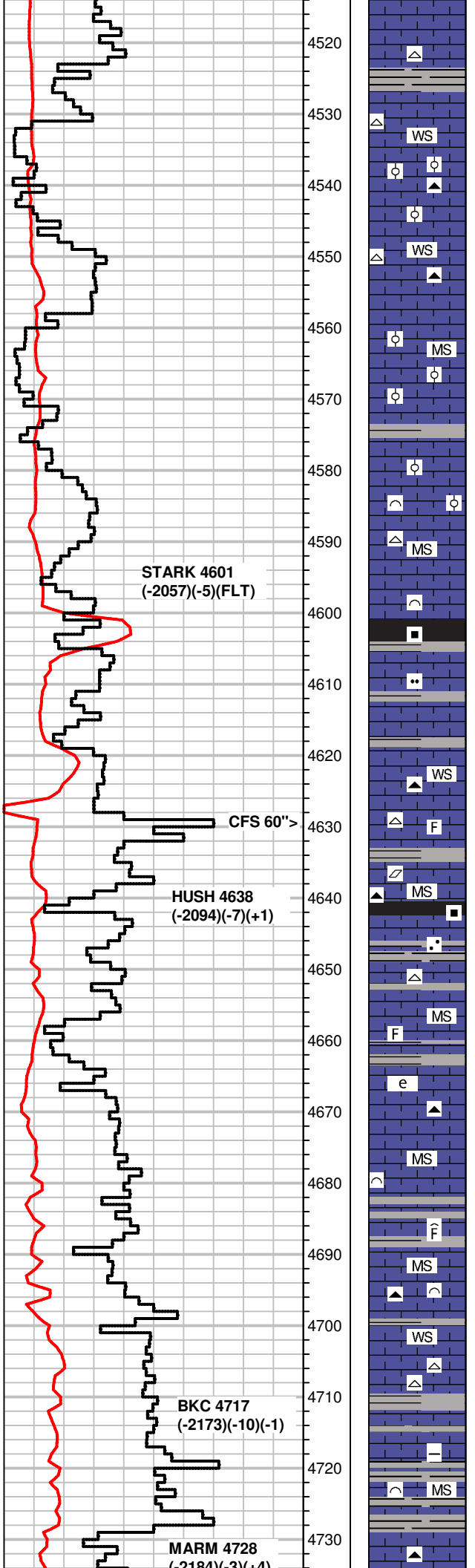
MS-WS, brn to gray, crm, dense, massive pcs, some f-gr gritty, fossils scatt, mottle sandy pcs, NS, SH, blk

re-zero gas detector

Influx MS, crm to off wht, f-xln to earthy, chalky in pt., firm to hard, pyrite, scatt fossils, Chert, wht

rare SH, gray, MS-WS, brn to crm, birttle, hard, dense, fossilif. pcs, fossilif. pcs, sub oolitic in pt., Chert, wht, oolitic pcs

MS, scatt WS, off wht to crm, earthy to f-gr, firm to hard, chalky in pt., scatt fossilif. pcs, brittle, chalky mtrx, scatt Chert, wht, fossilif., SH, dk



scatt fossilif. pcs, brittle, chalky mtrx, scatt Chert, wht, fossilif., SH, dk. grays

MS-WS, A.A., crm to off wht, dense, massive, some m-xln, fossilif., carryinng chalky pcs, rare SH, dk. gray, Chert, tan, opaque, wht

WS-PS, crm to tan, m-gr oolitic in tite calc mtrx, oomoldic, most pcs dense, some chalky, rare Chert, wht, gray

WS-PS, crm to tan, m-gr oolitic/moldic, hard to brittle, chalky in pt., dk. mineral specs, some pcs massive, dense, dull fluor, NS
Chert, wht, brn,

WS-PS, some MS, gray to brn, crm, m to fn-gr oolitic/moldic, firm to hard, brittle, mineral specs, fossil frgmts, lesser chalky pcs,

MS, WS/PS, tan to crm, massive to m-gr oolitic/moldic pcs, hard, some dense, fossilif.,

MS-WS, crm to tan, f-xln, dense, scatt pcs m-gr oolitic A.A., dull fluor, NS

carrying WS-PS, A.A., MS, crm to tan, gray, massive, dense, scatt fossils, calcite, NS

MS-WS, gray to crm, f-xln hard to firm, fossils scatt, some calcite, rare Chert, wht.

MS-WS, brn to gray, f-xln, dense, massive, sli. chalky, rare fossils, Chert, wht, fossils
SH, blk, carbonaceous, gassy, some pcs gray, silty

+60 UGK, shale gas

MS-WS, crm to lt. gray, f-xln gritty in pt., mineral specs, Chert, wht gray, fossils

WS-MS, lt brn to lt. gray, earthy to f-xln, silty to shaly pcs, chakly in pt., soft/brittle, SH, grays, brn

MS, crm to tan, earthy to f-xln, chalky in pt., some gritty pcs, NS
Chert, wht, gray, frest fossils

BIT TRIP @ 4629'
Pipe Strap .27 Short to Board

some SH, gray
MS-WS, brn to crm, f-xln, mottled pcs, scatt m-gr oolitic/moldic pcs, tite calc mtrx, hard, cherty pcs, calcite rhombs, Chert, brn, wht, sponges

+10 UGK, shale gas

SH, blk to grays, green, brn, MS, scatt WS, crm to tan, brn, massive to sandy pcs, firm to dense, fossilif to barren pcs, pyrite, Chert, wht, opaque

MS, crm to gray, f-xln to massive, chaly pcs, hard to firm, mottled, some fossils, pyrite, SH, blk, grays, green

influx MS, crm to off wht, chalky to earthy, soft to firm, rare dense/fossilif. pcs, Chert, gray, fossils, rare SH, brn, gray

MS, crm to lt. brn/tan, massive to mic-xln, firm/friable to dense, fossils scatt, Chert, brn, fossils, Shaly to gritty pcs, brn to gray

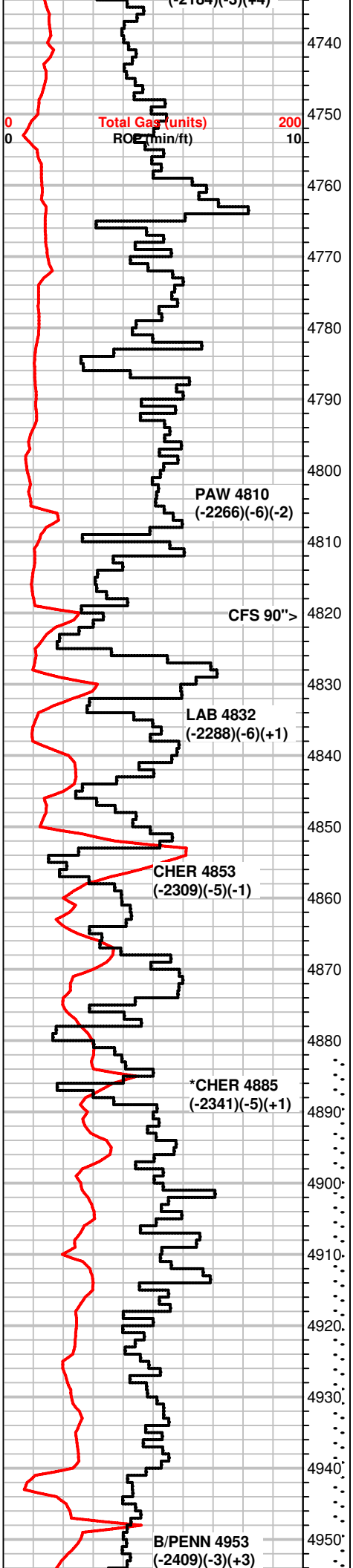
MS, tan to crm, some gray, f-xln to massive, hard to firm, gritty to rare sandy pcs, fossils scatt, chalky pcs rare, NS, SH, blk to brn
Chert, blk, wht, fossilif.

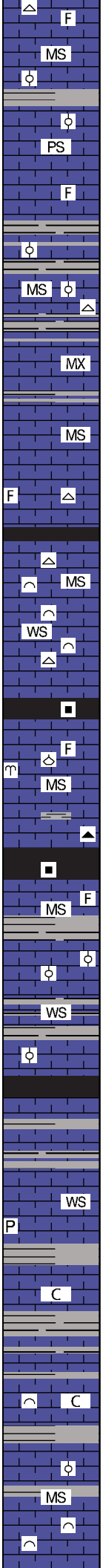
WS-MS, brn to crm, some gray, dense, hard to brittle, mottled pcs, gritty in pt., fossilif, some pcs chalky, Chert, wht, brn, micro oolitic, NS, rare SH, dk. gray to blk, silty

SH, blk to grays, silty to fossilif., MS-WS, gray to brn, tan, m-xln, gritty, hard, dense, fossilif. pcs, some chalky, Chert, wht, fossils

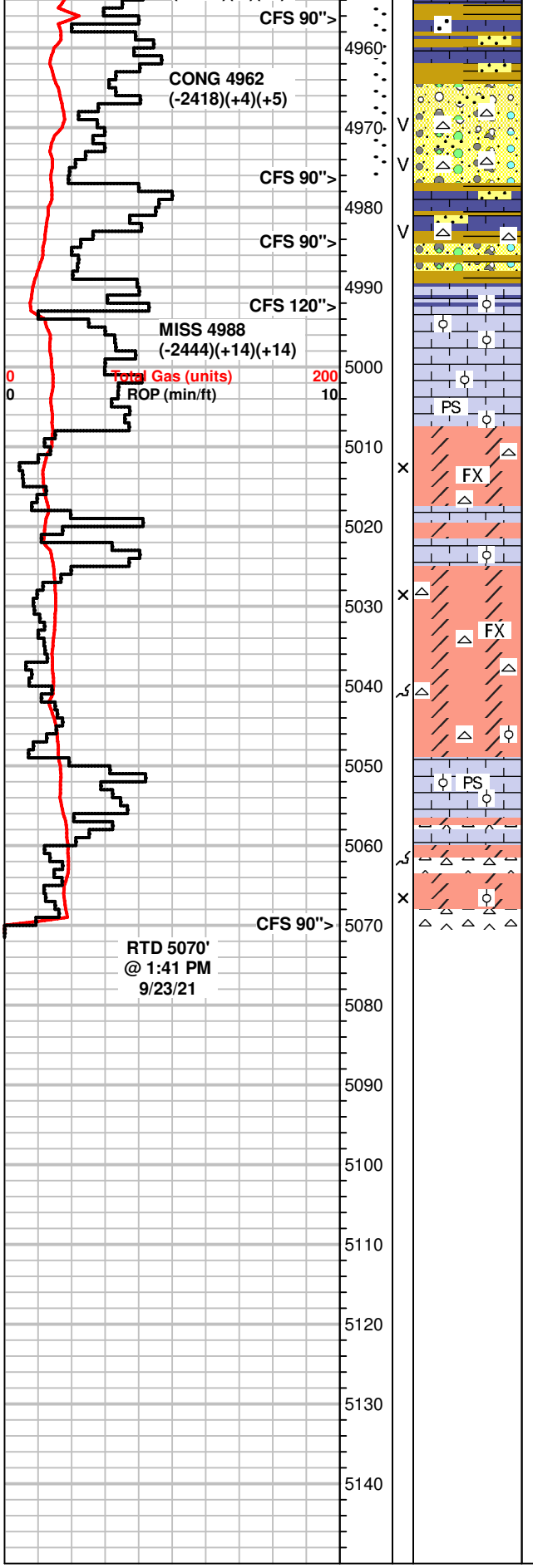
MS, brn to crm, gray, vf-xln to massive txt, dense, some brittle, scatt mottled pcs, shaly in pt., SH, brn to gray, Chert, blk, wht, fossilif.

MS, crm to tan, gray, chalky to f-xln, dense to friable pcs, shaly in pt.,





	some fossils, rare Chert, wht	
	MS-WS, crm to tan, f-xln to chalky, sub oolitic, firm, rare PS, off wht, oolitic, dense, tite calc mtrx, NS some SH, gray to blk	
	WS-PS, crm to off wht, chalky to sandy, m-gr, some fossil frgmts, oolitic pcs scatt, some hard, most friable, NS, Chert, wht, blk, fossils	
	MS-WS, gray to brn, crm, f-gr sandy to massive txt, hard to friable, chalky in pt., fossils scatt, NS, some SH, grays	
	MS, crm to brn, f-xln, firm, m-gr oolitic in tite calc mtrx, dense, dull fluor, NS, Chert, wht, fossils., rare SH blk to grays	
	influx MS, crm to lt. gray, silty to shaly in pt, friable, rare fossilif, most barren, scatt SH, gray to green	
	MS, rare WS, crm to tan, earthy, mic-xln, some pcs fossilif., NS	
	MS-WS, crm to tan, f-xln to chalky in pt., firm, fossils scatt, dull fluor, NS, Chert, wht	
	Rare SH, blk, to gray, silty	**+19 UGK, shale gas**
	MS-WS, crm to off wht, f-xln, few dense pcs, most friable, chalky in pt., scatt oolitic/bioclastic pcs, tite mtrx, dull fluor, NS, Chert, wht, fossilif.	
O	MS-WS, crm to tan, f-xln, chalky in pt., firm, **rare (2) pcs w/ v. spty bri fluor, lt stn wet, slow milkty cut**, Chert, wht	**+24 UGK**
	MS-WS, crm to tan, firm to hard, f-xln, scatt fossils, some chalky, most massive to dense, NS SH, blk to gray, carb., gassy	**+40 UGK, shale gas**
	MS, brn to crm, some lt. gray, f-xln, dense to friable, scatt fossils, NS	
	MS, crm to off wht, lt. gray, f-xln friable to mostly dense, some fossils, Chert, gray,	**+24 UGK? possible recycle**
	SH, blk, carb. gassy MS, crm to tan, chalky to f-xln, firm to hard, rare fossils, NS	**+100 UGK, shale gas**
	SH, blk to gray, lesser amt., WS-MS, crm to brn, mottled pcs, chalky in pt., firmt to dense, rare massive pcs, m-gr oolitic/fossiilf, NS	**gas recycle**
	MS-WS, crm to tan, some brn, f-xln to earthy, some dense, hard to firm, fossils, scatt f to m-gr oolitic/moldic, NS SH, blk to gray	**+24 UGK, shale gas**
	SH, blk to gray, silty/carb. WS-MS, brn to tan/crm, f-xln, firm to friable, fossilif., NS, Chert, opaque, wht, fossils	**DST #1 4882-4976 25-45-36-60 WSB, died in 8 min, flushed tool, died again in 6 min NBB WSB, died in 2 min, flushed tool, died in 6 min NBB Rec: 5' Mud IH 2419# IF 92-65# ISIP 183# FF 85-66# FSIP 106# FH 2415# Temp 115*F**
	WS, brn to crm, f to m-xln, tite calc mtrx, hard to firm, fossilif., some SH, grays, silty, pyrite	
	scatt SH, gray WS-MS, brn to crm, rare lt. gray, mic-xln, massive to chalky txt, dense to friable, fossilif,	
	SH, blk to grays, brn, WS-MS, brn to crm, m-xln, hard, fossils, NS	
	influx, MS-WS, crm to tan, f-xln to massive, dense, most firm, chalky in pt., fossilif. to sub oolitic, NS, SH, lt grays	
	MS, crm to lt. gray, f-xln, dense, hard, scatt fossils, SH, gray, green, brn, sandy pcs rare	
O	MS, crm to tan, brn, f-xln, hard, fossils, **bri. fluor (10%), v. spty stn wet even stn dry in few pcs, inst strmg cut, no free oil, no odo**r,	**+46 UGK, 14 UGK recycle**



rare calcitic SS
SH, varicolored, sandy in pt.,

MS, crm to tan, f-xln, hard, scatt fossils,
40% SH, varicolored, 40% SS clusters, green, gray, wht, vf-gr, well srtd, sub rnd, friable, loose Qtz, co-gr, sli frosted, sub rnd, 20% Chert, wht, yellow, green, blocky, dead wormy stn

60% Chert, varicolored, fresh to rare wthrd pcs, angular to blocky, vuggy por., **rare spty stn dry**, carrying SH,10% A.A., 30% SS clusters, A.A., NS

4976-4984 60%-MS, brn to crm, f-xln, chalky pcs, some dense, sub oolitic, fossil frgmts, NS, 20%-Chert, varicolored, most fresh, some wthrd w/ SS on edge, vuggy por., NS 18%-SH, varicolored, striated, 2% SS clusters, green to gray, fn-gr, sub rnded, soft, friable, NS

4784-4792 SH, varicolored, blk to lt green, maroon, WS-PS, crm to brn, Off wht, f-xln, hard, oolitic in pt., Chert, varicolored, mostly fresh, wht, oolitic, NS, rare SS clusters, green, f-gr, friable, NS

Dolo, brn to crm, f-to m-xln, sucrosic txt, some pcs fossilif/oolitic, some w/ chert, frgmts, dull fluor, NS

WS-PS, crm to off wht, f-xln to chalky, oolitic, Cht, wht, opaque, oolitic

Dolo, brn to tan, f to m-xln, hard, glauc/calcite veins rare, some pcs w/ vf-chert frgmts, dull fluor, NS

Dolo, crm to tan, f-xln, f to m sucrosic txt, firm, rare glauc specs, fn chert frgmts, NS

WS-PS, crm to off wht, f-xln to chalky txt, m-gr oolitic pcs, firm to soft, Chert, wht to bone wht, fresh, rare wthrd, fossils scatt

influx Chert, bone wht, some opaque, mostly fresh, 20% wthrd, scatt PS wht, chalky, oolitic m-gr.

Dolo, brn, m-xln, co-gr sucrosic txt in scatt pcs, some pcs oolitic/moldic, cherty, Chert, wht, most fresh, 30% wthrd, fossils scatt

Kelly Bouncing!!

Kelly Bouncing!!

Pump Pressure down to 500#, lag is 40% slower, returns are minimal