KOLAR Document ID: 1668062

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: MV Purchasing / Vincent Oil Corporation

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 #:

6/9/2022 Spud Date or Recompletion Date
6/19/2022 Date Reached TD
8/5/2022 Completion Date or Recompletion Date

API No.: 15-057-21070-00-00
Spot Description:
NE - SW - SE - NW Sec. 22 Twp. 28 S. R. 23 ☐ East ☑ West
2158 Feet from ☑ North / ☐ South Line of Section
1717 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: HAWES RANCH Well #: 3-22
Field Name: Great Mogul Canyon
Producing Formation: Mississippian & Basal Penn Conglomerate
Elevation: Ground: 2466 Kelly Bushing: 2478
Total Vertical Depth: 5250 Plug Back Total Depth: 5213
Amount of Surface Pipe Set and Cemented at: 610 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: 66000 ppm Fluid volume: 1229 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Elk Energy Holdings LLC
Lease Name: Karla #2922-1-1 License #: 35420
Quarter SW Sec. 1 Twp. 29 S. R. 22 ☐ East ☑ West
County: Ford Permit #: D 31368

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: 10/06/2022
☐ **Confidential Release Date:** 10/05/2024
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** David Befort **Date:** 10/07/2022

Operator Name: Vincent Oil Corporation Lease Name: HAWES RANCH Well #: 3-22

Sec. 22 Twp. 28 S. R. 23 ☐ 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: Attached Top: Attached Datum: 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	610	MDC & Common	300	0-4% Gel, 3% CC & 1/2# Flo-seal/sx
Production	7.875	4.5	11.6	5249	Pro-C	175	2% Gel, 10% Salt & 5# Kol-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: 8/5/2022	Producing Method: ☑ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	140	50		

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL: Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☑ Commingled *(Submit ACO-4)*	5118	5122
		5128	5145

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)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.3750 Set At: 5173 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	HAWES RANCH 3-22
Doc ID	1668062

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	HAWES RANCH 3-22
Doc ID	1668062

Tops

Name	Top	Datum
Heebner Shale	4277	(-1799)
Brown Limestone	4410	(-1932)
Lansing-Kansas City	4442	(-1944)
Stark Shale	4735	(-2257)
Base Kansas City	4856	(-2378)
Pawnee	4950	(-2472)
Cherokee Shale	4998	(-2520)
Base Penn Limestone	5097	(-2619)
Basal Penn Conglomerate	5116	(-2638)
Mississippian	5127	(-2649)
RTD	5250	(-2772)
LTD	5252	(-2774)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	HAWES RANCH 3-22
Doc ID	1668062

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
					Ran in with tubing and found cement at 5169', rigged up with bit and power swivel .
					Drilled out cement to new PBTD of 5213', Ran bond log
3	5118	5122			Perforated Basal Penn Conglomerate 5118' to 5122'
3	5128	5134			Perforated Mississippian 5128' to 5134'
3	5138	5145			Perforated Mississippian 5138' to 5145'
					Treated all perforations with 2750 gal 15% MCA. rigged up to swab.

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	HAWES RANCH 3-22
Doc ID	1668062

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
					Swab all perfs open for 6 hrs. Final rate 11 BF/hr (17% Oil) with 600# on csg. SDFN,
					Blew well down, Swab 5 hr final rate 7 BF/hr (35% Oil). 400# on the csg..
					SITP 800# SICP 1350#, Blew well down and ran tubing and rods and set surface equip

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	HAWES RANCH 3-22
Doc ID	1668062

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	610	MDC & Common	300	0-4% Gel, 3% CC & 1/2# Flo-seal/sx
Production	7.875	4.5	11.6	5249	Pro-C	175	2% Gel, 10% Salt & 5# Kol-seal/sx

Surface Pipe

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
6/10/2022	C-2922

Bill To

Vincent Oil Corporation
200 W. Douglas, Ste. 725
Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Hawes-Ranch #3-22

Description	Qty	Rate	Amount
8 5/8 Baffle Plate	1	120.00	120.00T
8 5/8 Wooden Plug	1	120.00	120.00T
Head & Manifold	1	250.00	250.00T
MDC	150	18.00	2,700.00
Common	150	16.75	2,512.50
Gel	564	0.22	124.08
Calcium	846	1.20	1,015.20
Flo-Seal	150	3.70	555.00
SFC 501-1500'	1	1,000.00	1,000.00
Handling	332	2.10	697.20
.10 * sacks * miles	12,000	0.10	1,200.00
Service Supervisor	1	325.00	325.00
LMV	65	4.50	292.50
Heavy Equipment Mileage	195	9.50	1,852.50
Customer Discount		-5,743.80	-5,743.80
Discount Expires after30 days from the date of the invoice		0.00	0.00
Hawes-Ranch #3-22			
Ford Co.			

Subtotal	$7,020.18
Sales Tax (7.5%)	$36.75
Total	$7,056.93

QUALITY WELL SERVICE, INC.

7981

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

	Sec.	Twp.	Range	County	State	On Location	Finish
Date 6-9-22	22	28S	23W	Ford	KS		

Lease HAWES-RANCH Well No. 3-22 Location Kingsdown, KS N to Wilburn Rd W to 1st Rd

Contractor DUKE DRLG RIG #1 Owner 2 6 N W into

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. 613'
Csg.	8 5/8	Depth 609'
Tbg. Size		Depth
Tool		Depth
Cement Left in Csg.		Shoe Joint 42.50
Meas Line		Displace 36.26 Bbls

Charge To VINLEAF OIL CORP

Street

City State

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

Cement Amount Ordered 150 sx MDC 3% CC 1/2# PS
150 sx Common 2% GEL 3% CC 1/2# PS

EQUIPMENT

Pumptrk 3	No.		
Bulktrk 10	No.		
Bulktrk 12	No.		
Pickup	No.		

JOB SERVICES & REMARKS

RUN 14 JTS 8 5/8 23# CSG SET @ 609'
START CSG CSG ON BOTTOM
HOOK UP TO CSG. BREAK CIRC W/RIG
START PUMPING H2O
START MIX: PUMP 150 SX MDC @ 12#/GAL
START MIX: PUMP 150 SX COMMON 2% GEL 3% CC 1/2# PS @ 14#/G
SHUT DOWN RELEASE 8 5/8 WOODEN PLUG
START DISP
PLUG DOWN 650# 36.26 BBLS
CLOSE VALVE ON CSG
GOOD CIRC THRU JOB
CIRC CMT TO PIT

THANK YOU
PLEASE CALL AGAIN TODD BRAD NATHAN

X Signature

Common	150 SX
Poz-Mix	MDC 150 SX
Gel.	546#
Calcium	846#
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	322
Mileage	65/120 00 85/E

FLOAT EQUIPMENT

Guide Shoe	H-FILL 1 EA
Centralizer	BAFFLE PLATE 1 EA
Baskets	WOODEN PLUG 1 EA
AFU Inserts	
Float Shoe	
Latch Down	
	SERVICE SUP 1 EA
	LMV 65
Pumptrk Charge	SURFACE
Mileage	195
Tax	
Discount	
Total Charge	

Prod. Casing

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
6/20/2022	C-2931

Bill To
Vincent Oil Corporation 200 W. Douglas, Ste. 725 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Hawes Ranch #3-22

Description	Qty	Rate	Amount
4 1/2 Guide Shoe	1	130.00	130.00T
4 1/2 Centralizer	6	50.00	300.00T
4 1/2 Rubber Plug	1	57.00	57.00T
4 1/2 AFU Insert	1	155.00	155.00T
Head & Manifold	1	250.00	250.00T
4 1/2 Rotating Head	1	150.00	150.00T
Pro-C	225	18.00	4,050.00T
Gel	423	0.22	93.06T
Salt	1,239	0.50	619.50T
Flo-Seal	56.25	3.70	208.13T
Kol-Seal	1,125	0.75	843.75T
Mud Flush	500	1.00	500.00T
Fluid Loss	127	10.50	1,333.50T
CC-1	7	35.00	245.00T
Cement Defoamer	53	6.00	318.00T
Longstring	1	2,100.00	2,100.00
Handling	277	2.10	581.70
.10 * sacks * miles	10,500	0.10	1,050.00
Service Supervisor	1	325.00	325.00
LMV	65	4.50	292.50
Heavy Equipment Mileage	130	9.50	1,235.00
Customer Discount		-5,192.99	-5,192.99
Discount Expires after30 days from the date of the invoice		0.00	0.00
Hawes Ranch #3-22 Ford Co.			

PLEASE REMIT TO ABOVE COMPANY & ADDRESS! Thank you for your business!

Subtotal	$9,644.15
Sales Tax (7.5%)	$451.08
Total	$10,095.23

QUALITY WELL SERVICE, INC.

7997

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 6-19-22	Sec. 22	Twp. 28	Range 23	County Ford	State KS	On Location	Finish 3:45

Lease Hawes Ranch | Well No. 3-22 | Location

Contractor Duke 1 | Owner

Type Job Long string | 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. 5252'

Csg. 4.5 | Depth 5248'

Tbg. Size | Depth | Charge To Vincent

Tool | Depth | Street

Cement Left in Csg. | Shoe Joint 21 | City | State | The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line | Displace | Cement Amount Ordered 225 sx Plus 2% Gel 10% Salt 5# Kolseal .6% C16A 25% C41P .2% P.S.

EQUIPMENT

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

JOB SERVICES & REMARKS

Rat Hole 20sx

Mouse Hole 20sx

Centralizers

Baskets

D/V or Port Collar

Run 119 jts 4.5 11.6# csg set @ 5248' Hooked up to csg circulate with Rig Pump 10 bbls H2O 12 bbls Mud Flush 10 bbls H2O Plug Rat and Mouse hole 50sx. Pump 175sx cmt down csg Shut down washed up Release plug Displace with KCL water 81 3/4 bbls 20 bbls out Good cmt Shut in 800 psi (released held)

David Mike Bryan

X Signature

Common	225
Poz. Mix	
Gel.	42.3#
Calcium	
Hulls	
Salt	1239#
Flowseal	56.25
Kol-Seal	1125#
Mud CLR 48	500 gal
~~CFL-117 or CD110 CAF 38~~	C16A 127
Sand	CC-1 7 gal C41P 53
Handling	277
Mileage	65
4.5	**FLOAT EQUIPMENT**
Guide Shoe	1
Centralizer	6
Baskets	Top Rubber Plug 1
AFU Inserts	1
Float Shoe	H+M 1
Latch Down	Rotate head 1
Service Supervisor	
MV	10.5
Pumptrk Charge	Long string
Mileage	130
Tax	
Discount	
Total Charge	

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65448 **DST#: 1**

Test Start: 2022.06.16 @ 13:25:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:17:17
Time Test Ended: 23:24:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

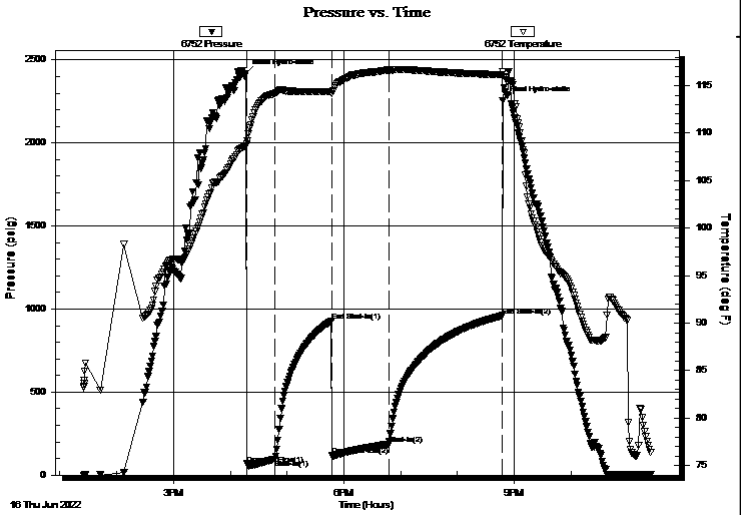
Interval: 4928.00 ft (KB) To 4968.00 ft (KB) (TVD)
Total Depth: 4968.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2478.00 ft (KB)
2466.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6752 **Inside**
Press@RunDepth: 187.34 psig @ 4934.00 ft (KB)
Start Date: 2022.06.16 End Date: 2022.06.16
Start Time: 13:25:01 End Time: 23:24:47

Capacity: psig
Last Calib.: 2022.06.16
Time On Btm: 2022.06.16 @ 16:16:17
Time Off Btm: 2022.06.16 @ 20:47:47

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes, Built to 68.5 inches
ISI: Blow Back Built to 3.66 inches
FF: Strong Blow , BOB in 9 minutes, Built to 63.18 inches
FSI: Blow Back Built to 3.6 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.76	108.57	Initial Hydro-static
1	68.16	108.84	Open To Flow (1)
31	96.69	114.22	Shut-In(1)
91	928.01	114.33	End Shut-In(1)
92	118.07	114.18	Open To Flow (2)
151	187.34	116.62	Shut-In(2)
271	960.06	116.17	End Shut-In(2)
272	2254.97	116.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1478 GIP	0.00
124.00	Water	1.74
62.00	GOWCM 10%G 30%O 30%W 30%M	0.87
124.00	GOWCM 16%G 10%O 24%W 50%M	1.74
10.00	Clean Oil	0.14

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65448 **DST#: 1**

Test Start: 2022.06.16 @ 13:25:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:17:17
Time Test Ended: 23:24:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 72

Interval: 4928.00 ft (KB) To 4968.00 ft (KB) (TVD)
Total Depth: 4968.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

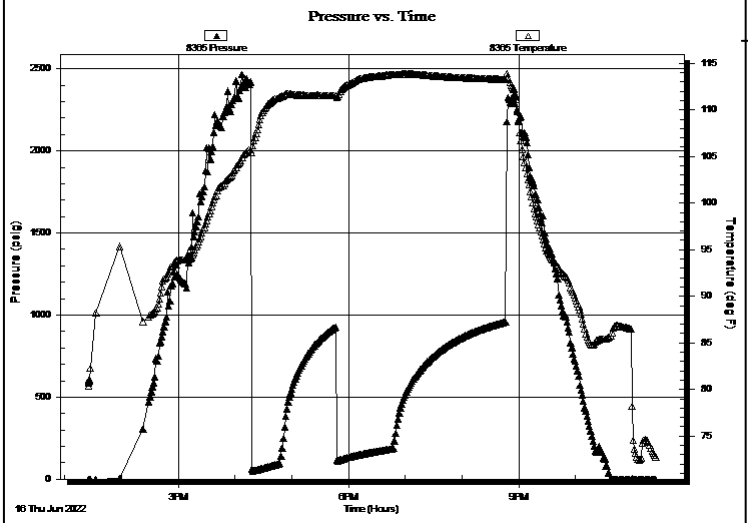
Reference Elevations: 2478.00 ft (KB)
2466.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Outside**

Press@RunDepth: psig @ 4934.00 ft (KB)
Start Date: 2022.06.16 End Date: 2022.06.16
Start Time: 13:25:01 End Time: 23:24:47

Capacity: psig
Last Calib.: 2022.06.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 2 minutes, Built to 68.5 inches
ISI: Blow Back Built to 3.66 inches
FF: Strong Blow , BOB in 9 minutes, Built to 63.18 inches
FSI: Blow Back Built to 3.6 inches



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1478 GIP	0.00
124.00	Water	1.74
62.00	GOWCM 10%G 30%O 30%W 30%M	0.87
124.00	GOWCM 16%G 10%O 24%W 50%M	1.74
10.00	Clean Oil	0.14

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65448 **DST#: 1**

Test Start: 2022.06.16 @ 13:25:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	38.2 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	55000 ppm
Viscosity:	64.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	11.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9400.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1478 GIP	0.000
124.00	Water	1.739
62.00	GOWCM 10%G 30%O 30%W 30%M	0.870
124.00	GOWCM 16%G 10%O 24%W 50%M	1.739
10.00	Clean Oil	0.140

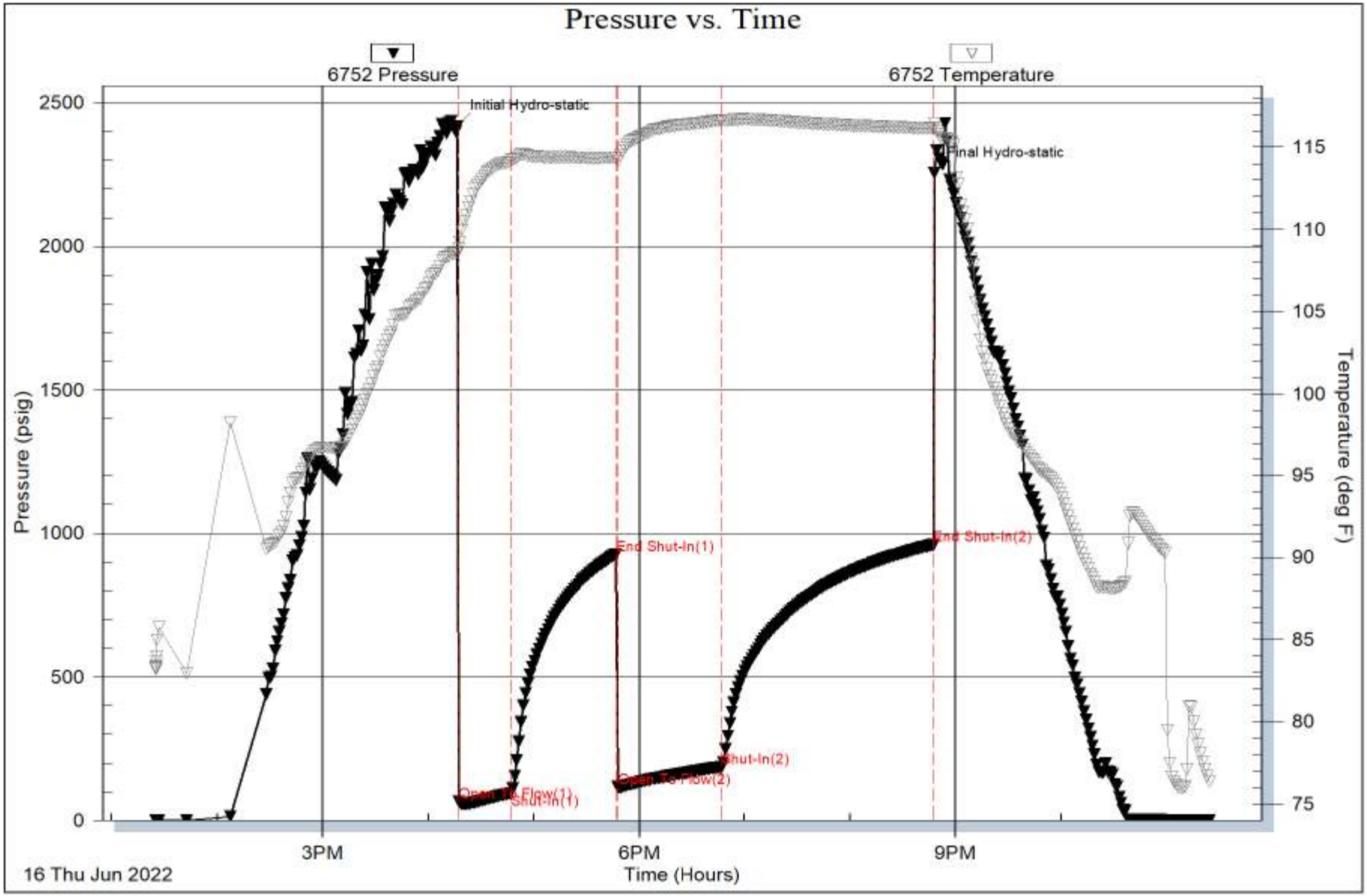
Total Length: 320.00 ft Total Volume: 4.488 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

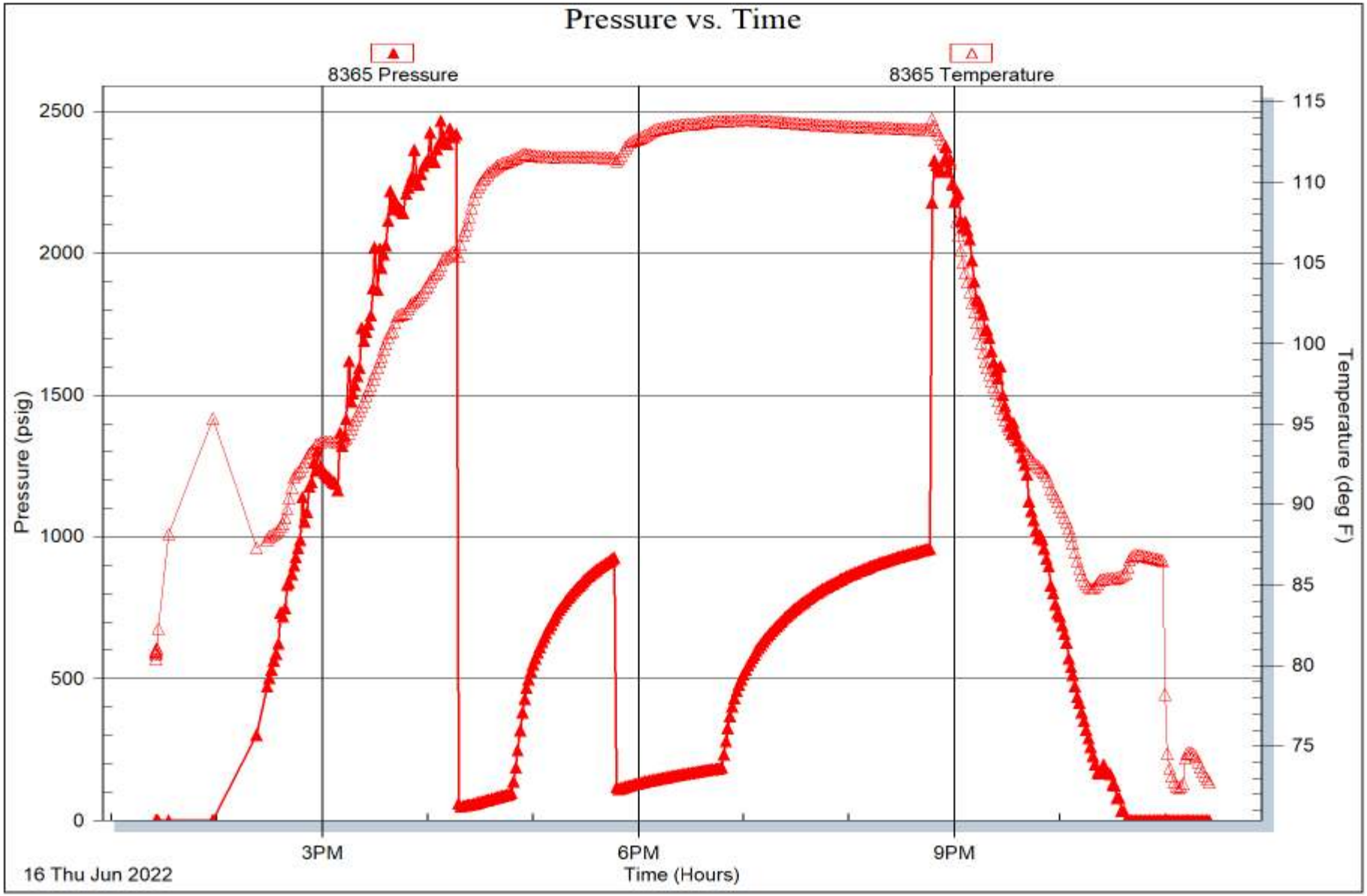
Recovery Comments: Gravity was 39.2 @ 80 degrees
RW was .11 @ 82 degrees

Serial #: 6752 **Inside** Vincent Oil Corporation Haw es Ranch 3-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65448 Printed: 2022.06.17 @ 07:04:30

Serial #: 8365 **Outside** Vincent Oil Corporation Haw es Ranch 3-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 65448 Printed: 2022.06.17 @ 07:04:30

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65449 **DST#: 2**

Test Start: 2022.06.17 @ 20:28:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:26:17
Time Test Ended: 05:16:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

Interval: 5080.00 ft (KB) To 5143.00 ft (KB) (TVD)
Total Depth: 5143.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

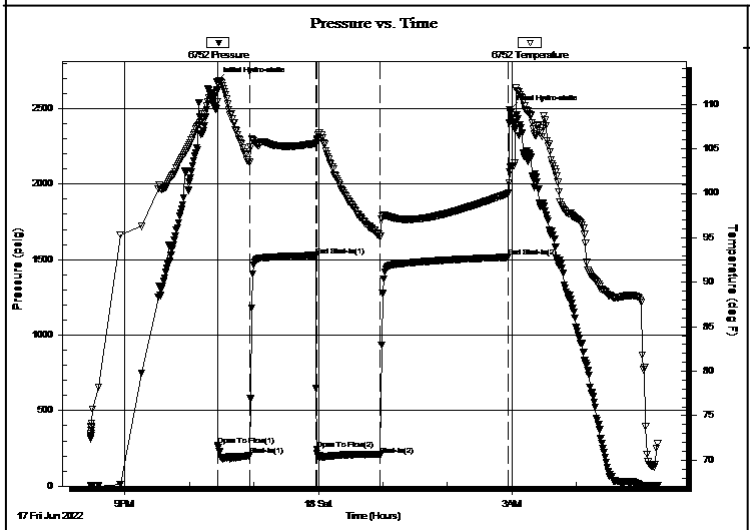
Reference Elevations: 2478.00 ft (KB)
2466.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6752 **Inside**

Press@RunDepth: 207.56 psig @ 5125.00 ft (KB)
Start Date: 2022.06.17 End Date: 2022.06.18
Start Time: 20:28:01 End Time: 05:16:02

Capacity: psig
Last Calib.: 2022.06.18
Time On Btm: 2022.06.17 @ 22:25:32
Time Off Btm: 2022.06.18 @ 02:58:02

TEST COMMENT: IF: STrong Blow , BOB in 30 seconds, GTS in 6 minutes, Gauged & Sampled
ISI: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2679.64	111.47	Initial Hydro-static
1	272.51	110.27	Open To Flow (1)
31	205.24	103.51	Shut-In(1)
92	1527.49	105.64	End Shut-In(1)
93	244.99	105.98	Open To Flow (2)
153	207.56	95.16	Shut-In(2)
272	1515.81	100.04	End Shut-In(2)
273	2492.01	102.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4982 GIP	0.00
90.00	GCM 10%G 90%M	1.26

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	27.69	263.66
Last Gas Rate	0.50	46.81	383.44
Max. Gas Rate	0.50	46.83	383.56

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65449 **DST#: 2**

Test Start: 2022.06.17 @ 20:28:00

GENERAL INFORMATION:

Formation: **Conglomerate**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:26:17
Time Test Ended: 05:16:02

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 72

Interval: 5080.00 ft (KB) To 5143.00 ft (KB) (TVD)
Total Depth: 5143.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

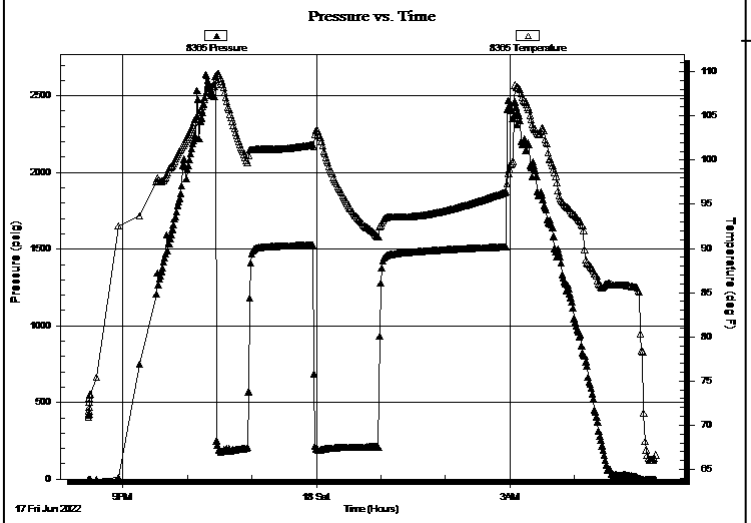
Reference Elevations: 2478.00 ft (KB)
2466.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Outside**

Press@RunDepth: psig @ 5125.00 ft (KB)
Start Date: 2022.06.17 End Date: 2022.06.18
Start Time: 20:28:01 End Time: 05:16:02

Capacity: psig
Last Calib.: 2022.06.18
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: STrong Blow , BOB in 30 seconds, GTS in 6 minutes, Gauged & Sampled
ISI: No Blow Back
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4982 GIP	0.00
90.00	GCM 10%G 90%M	1.26

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	27.69	263.66
Last Gas Rate	0.50	46.81	383.44
Max. Gas Rate	0.50	46.83	383.56

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65449 **DST#: 2**

Test Start: 2022.06.17 @ 20:28:00

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:	bbl		
Water Loss:	10.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9800.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4982 GIP	0.000
90.00	GCM 10%G 90%M	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: HOSCO Laboratory Location: Liberal, KS

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 3-22

Job Ticket: 65449 **DST#: 2**

Test Start: 2022.06.17 @ 20:28:00

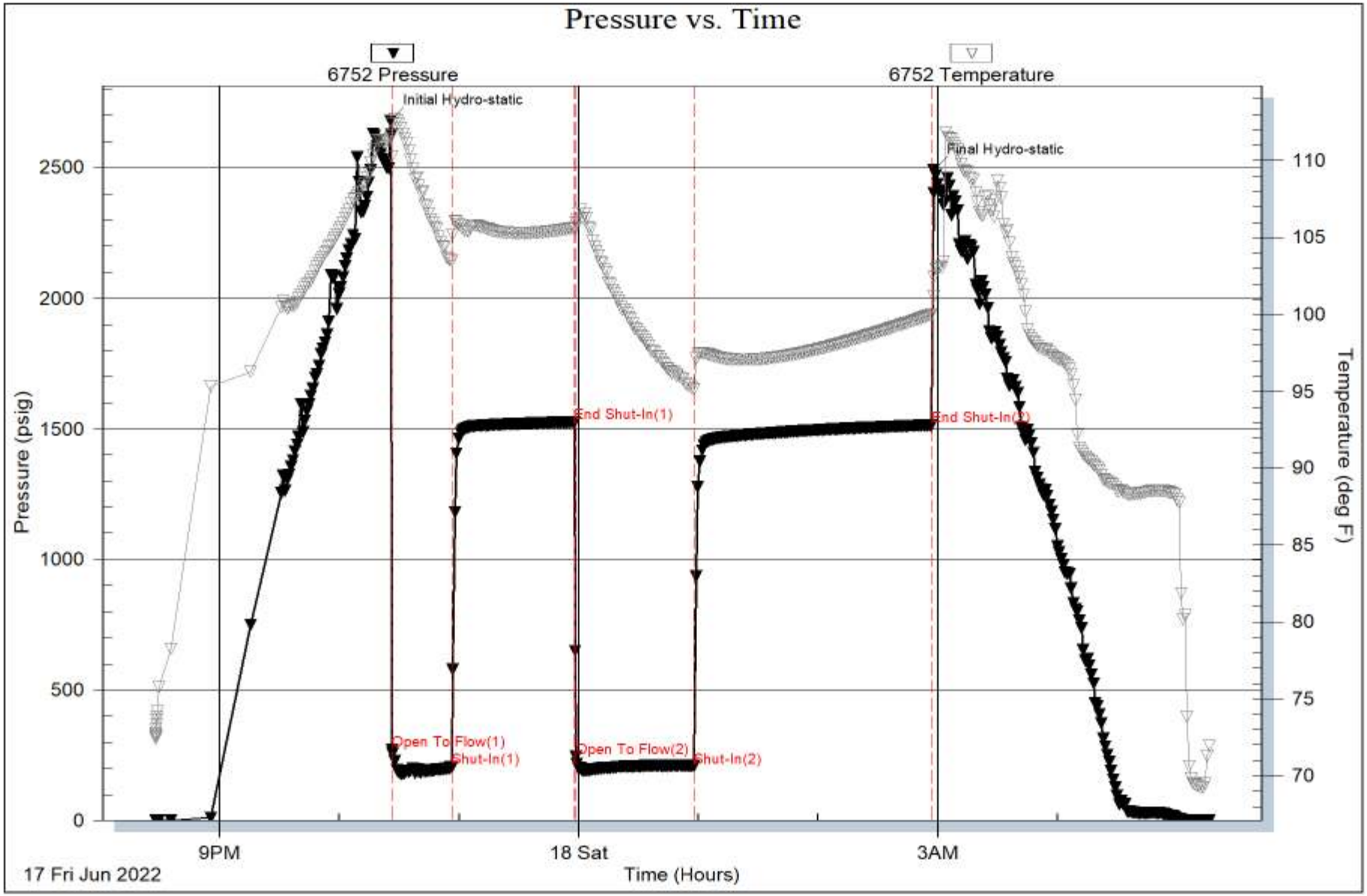
Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.67
Z Factor: 0.9

Gas Rates Table

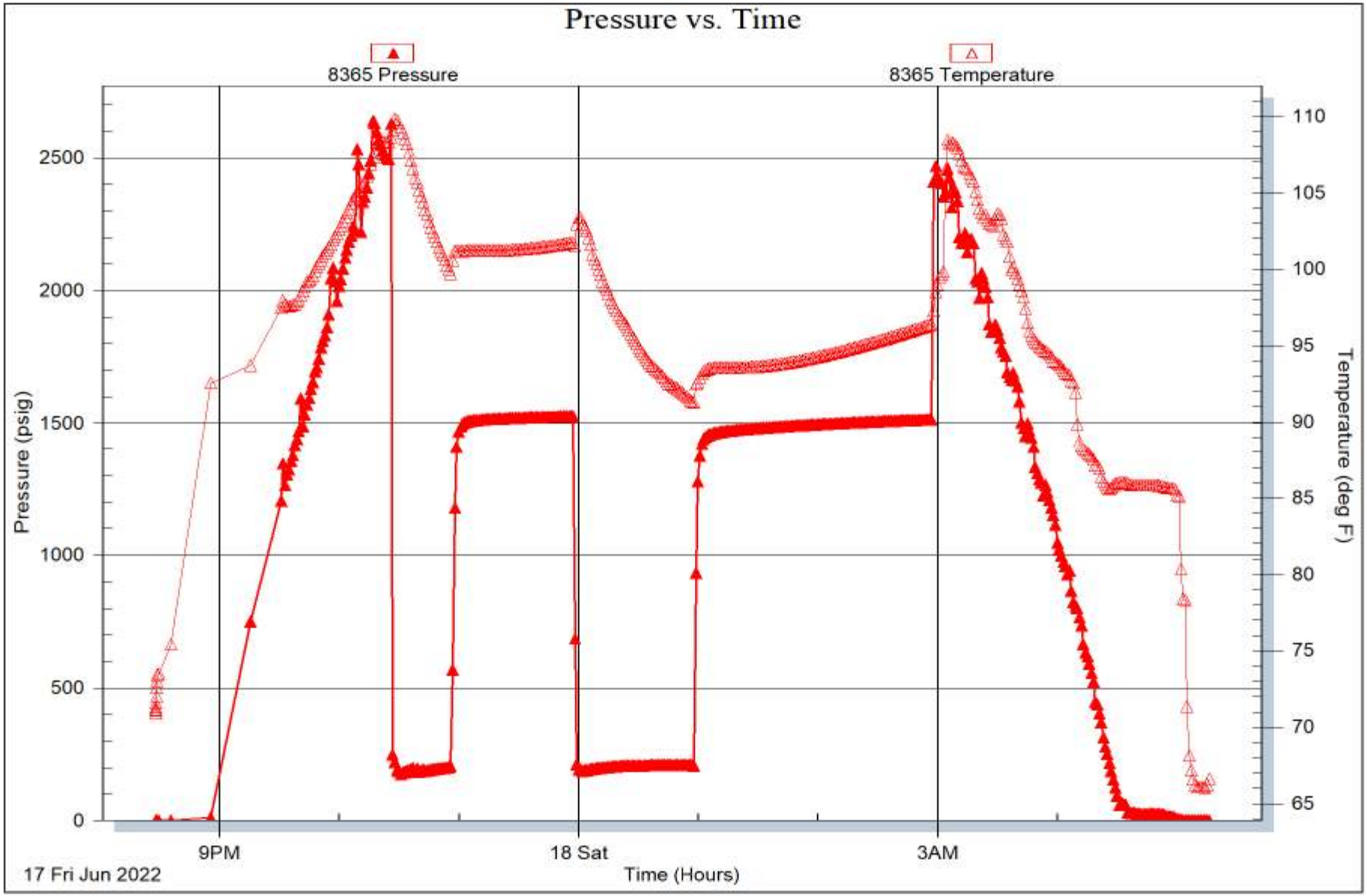
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.50	27.69	263.66
1	20	0.50	33.69	301.25
1	30	0.50	37.61	325.80
2	10	0.50	38.50	331.38
2	20	0.50	44.80	370.84
2	30	0.50	46.29	380.18
2	40	0.50	46.72	382.87
2	50	0.50	46.83	383.56
2	60	0.50	46.81	383.44

Serial #: 6752 **Inside** Vincent Oil Corporation Haw es Ranch 3-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65449 Printed: 2022.06.18 @ 06:20:34

Serial #: 8365 **Outside** Vincent Oil Corporation Haw es Ranch 3-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 65449 Printed: 2022.06.18 @ 06:20:34

Scale 1:240 Imperial

Well Name:	HAWES RANCH #3-22		
Surface Location:	2158' FNL _1717' FWL 22-28S-23W		
Bottom Location:			
API:	15-057-21070-0000		
License Number:	5004		
Spud Date:	6/9/2022	Time:	8:00 AM
Region:	MIDCON		
Drilling Completed:	6/18/2022	Time:	4:54 PM
Surface Coordinates:	2158' FNL & 1717' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	2466.00ft		
K.B. Elevation:	2478.00ft		
Logged Interval:	4200.00ft	To:	5250.00ft
Total Depth:	5250.00ft		
Formation:	PAWNEE		
Drilling Fluid Type:	CHEMICAL MUD		

OPERATOR

Company:	VINCENT OIL CORPORATION		
Address:	200 W DOUGLAS AVE STE 725 WICHITA, KS 67202		
Contact Geologist:			
Contact Phone Nbr:	316.262.3573		
Well Name:	HAWES RANCH #3-22		
Location:	2158' FNL _1717' FWL 22-28S-23W		
API:	15-057-21070-0000		
Pool:	DEVELOPMENT	Field:	MULBERRY CREEK
State:	KS	Country:	USA

CONTRACTOR

Contractor:	DUKE DRILLING CO., INC		
Rig #:	1		
Rig Type:	MUD ROTARY		
Spud Date:	6/9/2022	Time:	8:00 AM
TD Date:	6/18/2022	Time:	4:54 PM
Rig Release:	6/19/2022	Time:	5:45 PM

LOGGED BY

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

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.826237
Latitude:	37.595736
N/S Co-ord:	2158' FNL
E/W Co-ord:	1717' FWL

ELEVATIONS

K.B. Elevation:	2478.00ft	Ground Elevation:	2466.00ft
K.B. to Ground:	12.00ft		

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	5250.00	5252.00
LTD	5252.00	5252.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
CHEMICAL MUD	6/22/2022	3795.00ft	5250.00ft

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	610 ft	23#	14	6/10/2022 3:00 AM
Int Casing					
Prod Casing	4.5 in	5249 ft	11.6#	119	6/19/2022 3:45 PM

CASING SEQUENCE

Type	Hole Size	Casing Size	At
SURFACE	12.25 in	8.63	610.00 ft
PDORUCTION	7.88 in	4.50	5249.00 ft

OPEN HOLE LOGS

Logging Company:	ELI		
Logging Engineer:	COLE ROBBEN		
Truck #:	3802		
Logging Date:	6/18/2022	Time Spent:	5
# Logs Run:	4	# Logs Run Successful:	4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5252.00ft	2.00		1
NDE/NEU/PE	4200.00ft	5252.00ft	2.00		1
MICRO	4200.00ft	5252.00ft	3.00		2
SONIC	0.00ft	5252.00ft	3.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
6/22/2022	0.00ft	5252.00ft	LOGS RUN SUCCESSFULLY

NOTES

ELEVATION: 2466 ft. G.L.- 2478 K.B.

STRAIGHT HOLE SURVEY

Degree	Depth
3/4°	1622'
3/4°	2630'
1°	4970'
1°	5250'

REFERENCE WELL:

A	B
Vincent Oil Corporation	Vincent Oil Corporation

Hawes Ranch #1-22
1788' FNL & 1300' FEL
Sec. 22-28S-23W

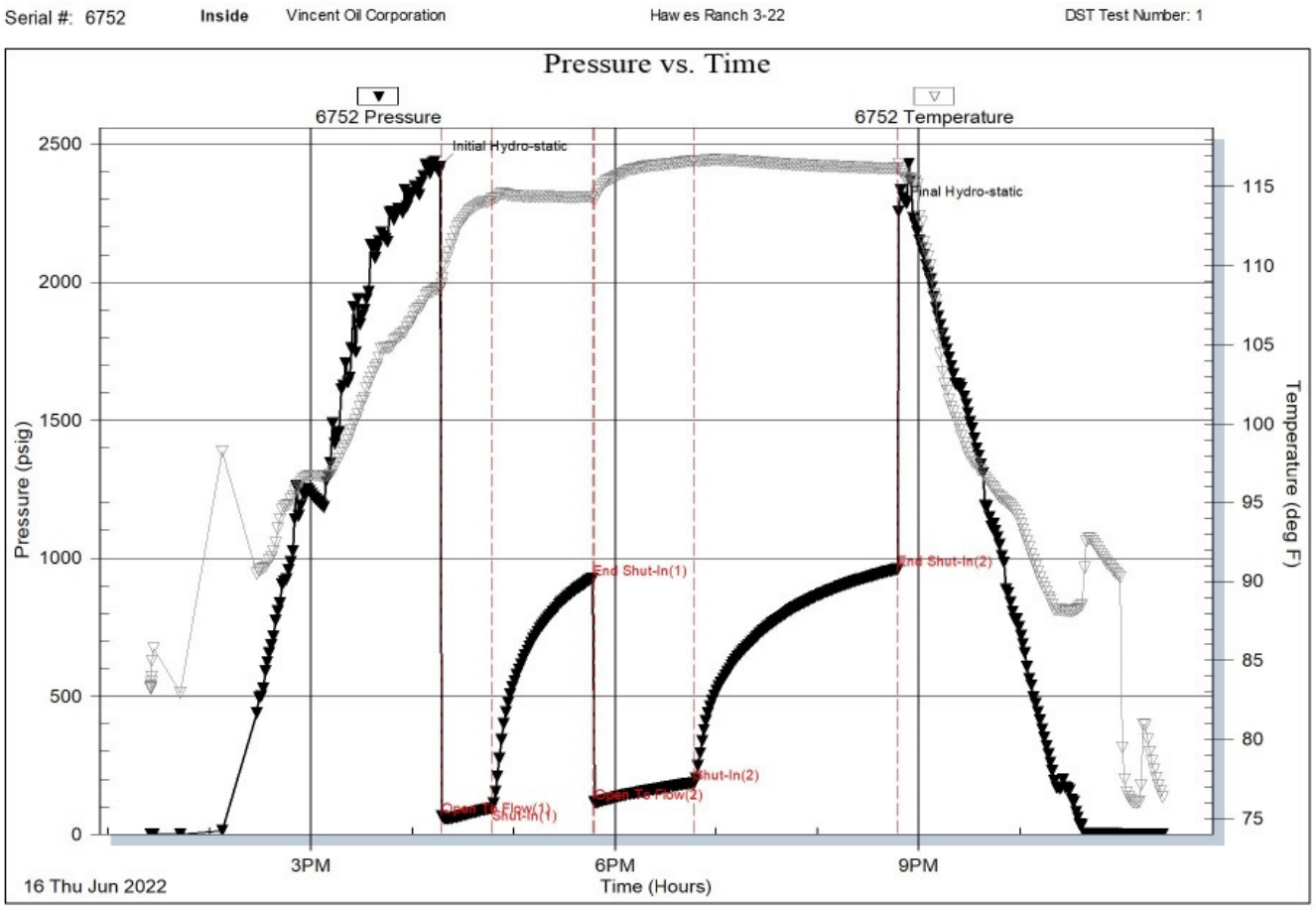
Hawes Ranch #2-22
2360' FSL & 2100' FEL
Sec. 22-28S-23W

SAMPLE TOPS	REF. WELLS A	REF. WELLS B	ELECTRIC LOG	REF. WELLS A	REF. WELLS B
Heebner Shale 4279 (-1801)	+10	+10	4277 (-1799)	+12	+12
Brown Limestone 4412 (-1934)	+8	+14	4410 (-1932)	+10	+16
Lansing - Kansas City 4425 (-1947)	+8	+14	4422 (-1944)	+11	+17
Stark Shale 4739 (-2261)	+10	+18	4735 (-2257)	+14	+22
Hushpuckney Shale 4776 (-2298)	+11	+18	4779 (-2301)	+8	+15
Base Kansas City 4859 (-2381)	+7	+12	4856 (-2378)	+10	+15
Pawnee 4951 (-2473)	+11	+16	4950 (-2472)	+12	+17
Cherokee Shale 4999 (-2521)	+9	+13	4998 (-2520)	+10	+14
Base Penn Limestone 5099 (-2621)	+6	+14	5097 (-2619)	+8	+16
Mississippian 5131 (-2653)	+3	+34	5124 (-2646)	+10	+41
RTD 5250 (-2772)			5252 (-2774)		

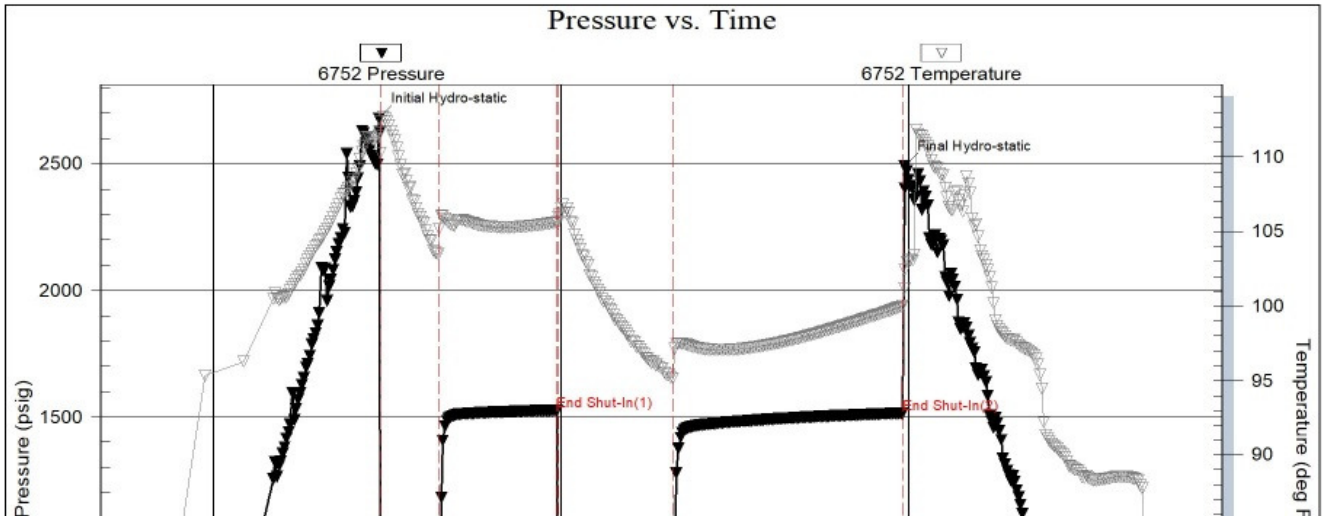
6/6/2022 Moved in rotary tools and rigged up.
6/7/2022 Rig shut down because of weather and field conditions
6/8/2022 Rig shut down because of weather and field conditions
6/9/2022 Spud well in at 8:00 AM, drilled surface hole with 12 ¼" bit to 613', CTCH. Ran wiper trip, CTCH, TOOH.. Ran 14 joints of new 8 5/8", 23# surface casing, set at 610', cemented with 150 sx MDC (3%CC & 1/2# Flo-seal/sx) and 150 sx Common (4% Gel, 3% CC & ½ # Flo-seal/sx), Plug down at 6:00 PM 6/9/2022, WOC. Drilled out from under surface casing at 3:00 AM 6/10/2022.
6/10/2022 At 896', Drilling ahead
6/11/2022 At 2033', Drilling ahead
6/12/2022 At 2990', Drilling ahead
6/13/2022 At 3545', Drilling ahead, Displaced mud system at 3795'
6/14/2022 At 4180', Drilling ahead
6/15/2022 At 4660', Drilling ahead
6/16/2022 At 4968', Running Short trip prior to tripping out of the hole For DST #1 4928' to 4968' (Pawnee)
Pipe strap 3.63' Short to the Board.
DST#1 4928' to 4968' (Pawnee)
30"-60"-60"-120"
1st Open: Strong Blow in 2"
2nd Open: Strong Blow in 9"
Recovered:
1478' Gas in Pipe
10' Clean Oil
62' Gassy Oil & Water Cut Mud (10% Gas, 30% Oil, 30% Water & 30% Mud)
124' Gassy Oil & Water Cut Mud (16% Gas, 10% Oil, 24% Water & 50% Mud)
124' Water
IFP: 68 - 96# FFP: 118 - 187#
ISIP: 928# FSIP: 960#
BHT 116°F
Chlorides: Recovered Water= 55,000 PPM; Mud System = 9400 PPM
6/17/2022 At 5037', Drilling ahead. Drilled to 5143' prepared for DST #2 5080' to 5143' (Cong. Chert & Top of Mississippian)
6/18/2022 At 5143' Tripping back in hole following DST #2 5080' to 5143' (Cong. Chert & Top of Miss.)
DST #2 5080' to 5143' (Cong. Chert & Top of Mississippian)
30"-60"-60"-120"
1st Open: Strong Blow in 30 sec GTS in 6"
Rate Time Choke
263 MCF 10" 1/2 "
301 MCF 20" 1/2 "
325 MCF 30" 1/2 "
2nd Open: Strong Blow with GTS immediately
331 MCF 10" 1/2 "
370 MCF 20" 1/2 "
380 MCF 30" 1/2 "
382 MCF 40" 1/2 "
383 MCF 50" 1/2 "
383 MCF 60" 1/2 "
Recovered;
90' Gas Cut Mud (10% Gas & 90% Mud)
IFP: 272 - 205# FFP: 3244 - 207#
ISIP: 1527# FSIP: 1515#
BHT 102°
Drilled ahead to 5250 RTD, CTCH, TOOH for electric logs. Ran electric logs (DIL, Density-Neutron, Micro-log & Sonic). Found TD at 5252', Logging competed at 2:30 Am
6/19/2022 TIH, CTCH, At 5250' Tripping out of the hole laying down drill pipe and drill collars, Laid down Kelley and

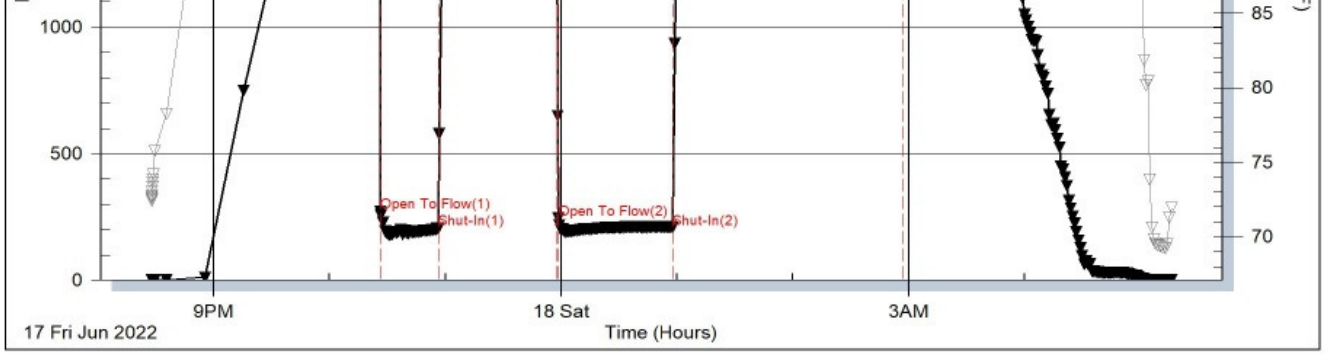
nippled down the BOP. Ran 119 joints of new 4.5", 11.6# production casing with a 21' shoe joint. Casing set at 5249'. Rigged up cementers and plugged the rathole with 30 sx and plugged the mouse hole with 20 sx. Cemented production casing with 175 sx of Q Pro C cement. Plug was down at 3:45 PM 6/19/2022. Casing slips were set and the pits were cleared. The rig was released at 5:45 PM 6/19/2022

DST #1



DST #2





Trilobite Testing, Inc Ref. No: 65449 Printed: 2022.06.18 @ 05:26:07

ROCK TYPES

Coal, Dolsec, Lmst fw<7, Lmst fw7>, Ss, Shgy, Shblck, Shcol, Cht vari

ACCESSORIES

MINERAL
- Calcareous
- Carbonaceous Flakes
- Chert, dark
- Ferruginous, grains or p
- Glauconite
- Heavy, dark minerals
- P Pyrite
- Sandy
- Silty
- Chert nodules
- Euhed rhombs of dol or
- Chert White

FOSSIL
- Bioclastic or Fragmental
- Brachiopod
- Foraminifera
- F Fossils < 20%
- Oolite
- Bioclast Fragment
- Sponge Spicules

STRINGER
- Sandstone

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

OTHER SYMBOLS

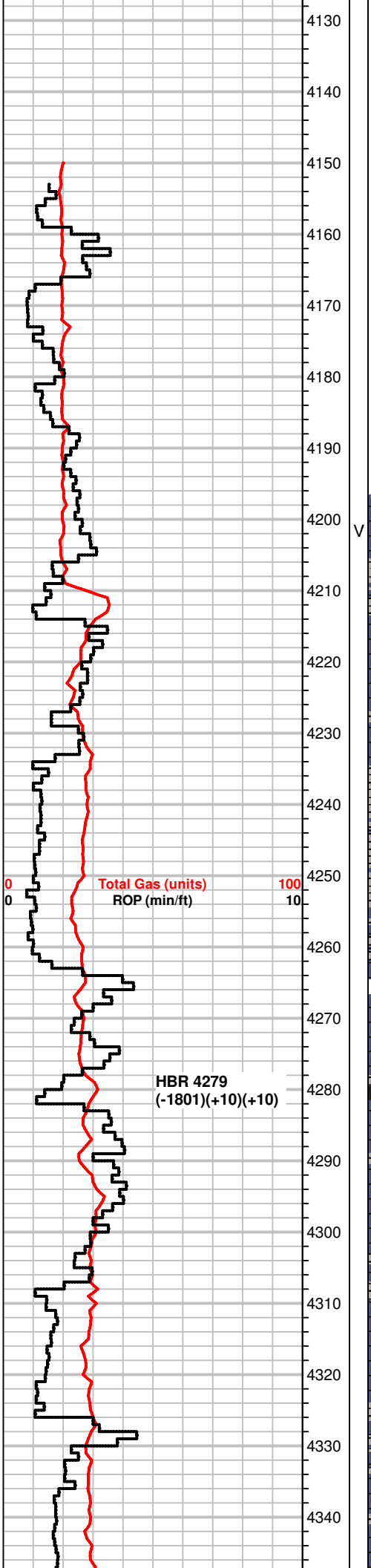
POROSITY TYPE
- Intercrystalline
- Interoolitic
- V Vuggy
- P Pinpoint
- Moldic
- O Organic
- F Fracture
- e Earthy
- Fenestral

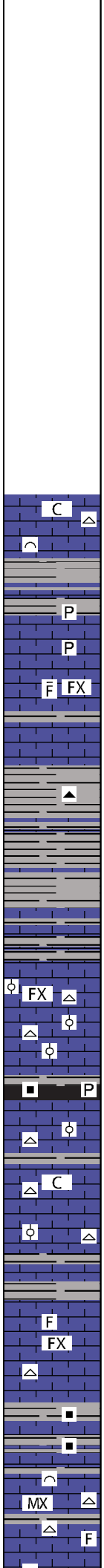
OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- O Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS
- Core
- DST

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

Curve Track #01 Total Gas (units) ROP (min/ft) 1:240 Imperial	Depth | Intervals Cored Interval DST Interval	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
0 Total Gas (units) 100 0 ROP (min/ft) 10 4110 4120						





MS-WS, crm to off wht, f-xln to m-gr oolitic pcs, chalky in pt., Cherty frgmts, fossils scatt, tite, hard, vuggy por
SH, blk, green, some reds scatt(cavings)

some SH, blk, slity, some pcs carb., pyrite flakes
MS, crm to tan, vf-lxn, massive pcs scatt, chalky to earthy, firm to hard, barren, NS, dull fluor

MS, crm to gray, earthy, firm to hard, scatt Chert, brn, NS
influx SH, blk to grays, green, reds

SH, blk, grays

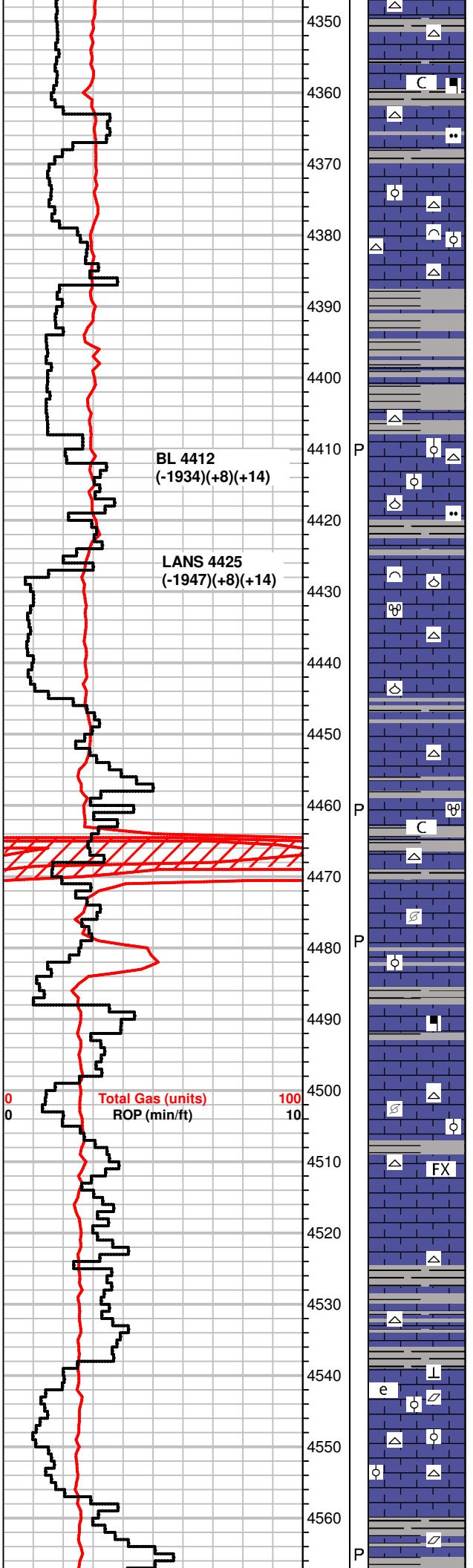
MS, crm to gray, f-xln gritty to f-xln, sandy pcs scatt, Chert frgmts, Cherty micro oolitic pcs, hard, NS
scatt SH, blk to gray

SH, blk to brnish gray, carb. sli. gassy
MS, WS, crm to off wht, some gray, chalky to f-xln, some earthy, hard, some Chert

MS-WS, tan to crm, chalky pcs scatt, most hard/dense, fossils rare, scatt tan Chert, NS
some SH, gray to blk. carb

influx, MS-WS, crm/off wht, f-xln to chalky in pt., brittle, Cherty, wht, fossils, some SH, grays, silty to sandy

MS, off wht to crm, rare brn pcs, massive to vf-xln, hard/dense, rare chalky pcs, f-gr oolitic to sandy pcs rare, sscatt dk. mineral specs, Chert, wht, rare SH, green to blk.



Chert, wht, rare SH, green to blk.

MS-WS, crm to off wht, f-xln to earthy, some waxy looking, oolitic, hard, mineral specs, some pcs chalky, Chert, wht, NS, dull fluor
some SH, blk to grays

MS, crm to gray, dense/massive, some chalky pcs, fossilif/oolitic, f-gr, firm to brittle, Chert, wht, SH, grays, silty

SH, gray to lt. green, silty to sandy in pt.

WS-MS, crm to tan, some brn, dense to f-xln, fossils, oolitic, m-gr, ringed to oblated, hard calc mtrx, PP por., Chert, tan to off wht, calcite

SH, gray to blk, some brn, silty in pt.

WS-PS, crm to tan, f-xln, m-gr oolitic/fossilif, bioclastic, chalky in pt., hard to brittle, scatt MS, brn, dense, fossils,

MS-WS, gray, brn, crm, f-xln, some pcs chalky, gritty, firm to brittle, some pcs dense, fossils scatt, calcite, Chert, wht, tan
SH, lt. grays

MS-WS, crm to lt. tan, m-xln, sub oolitic txt, hard, some pcs massive/dense, fusilinids, scatt fossil frgmts, chalky in pt., PP por., Chert, tan, wht, some SH, gray

Gas Line Vacuum Test!

Agitator/Trap Test, system working properly

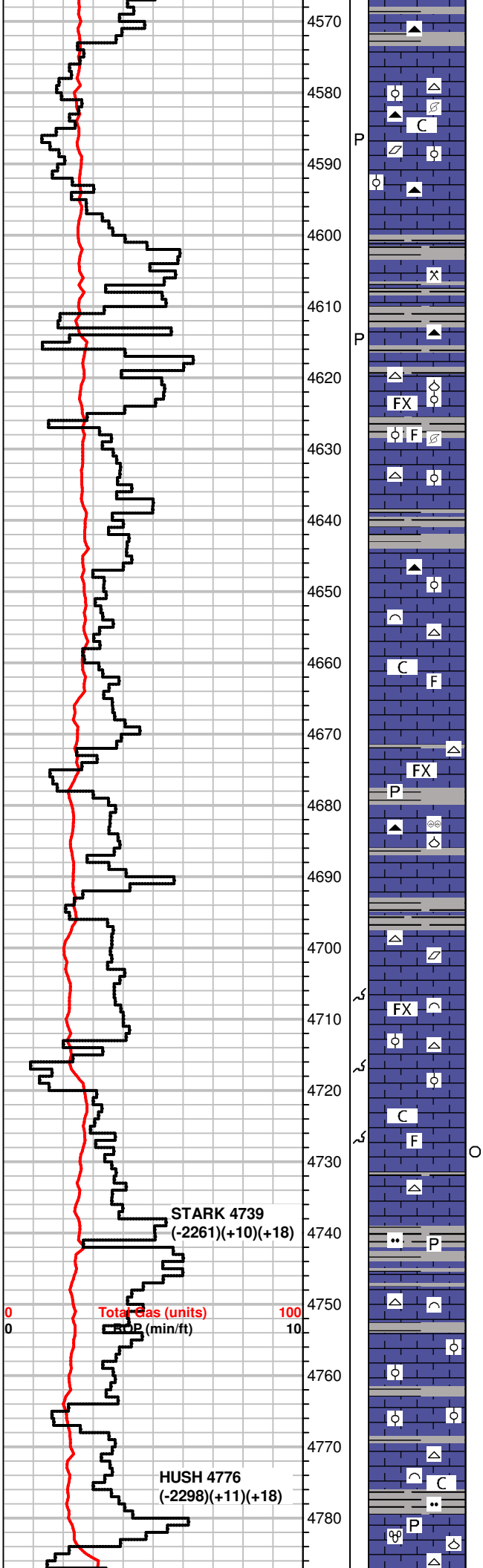
MS-WS, A.A., grays, m-xln, sub oolitic txt, fossilif in pt., chalky pcs scatt, some massive, hard, PP por., rare SH, lt grays

MS-WS, crm to lt. gray, chalky, soft to firm, scatt dense pcs, fossils rare, silty to shaly in pt., Chert, wht, dull fluor, NS
SH, rare blk to gray, limey/calc.

MS, crm to gray, f-xln, hard to firm, gritty to chalky pcs, inc. in dense pcs, scatt fossils, in c in Chert, wht
more SH, grays

MS, gray to crm, earthy to chalky, most pcs dense/hard, gray pcs shaly to silty, rare vf-gr oolitic pcs in tite calc mtrx, firm, dull fluor, NS, some Chert assoc., wht

Sh, grays, silty
MS-WS, brn, crm, gray, A.A. to m-xln, chalky to dense, fossilif pcs



scatt, rare PP por., influx Chert, gray to wht, NS

MS, crm to tan, f-xln to chalky/earthy pcs, soft, scatt dense pcs, rare oolitic/fossilif pcs, f-gr in firm mtrx, calcite frgmts, dull flour, PP por, NS, Chert, wht, gray, fossils
SH, grays, some pcs silty, hard

SH,blk to grays
MS-WS, crm to tan, chalky to earhty, dense to brittle pcs, gritty, fossils scatt, PP por, Chert, gray, wht, fossils(sponges??)

Inc in SH, grays, MS, crm to tan, earthy to f-xln, dense to soft, scatt fossils, micro oolitic pcs rare, tite, cherty frgmts, Chert, wht, lt. gray, micro oolitic

influx SH, grays, green, dk. gray, silty, some pcs limey
MS, crm to gray, f-xln, earthy to dense, scatt fossils, mineral specs, Chert, off wht to gray

MS-WS, crm to brn, f-xln, dense, fossilif., some pcs chalky, Chert, wht, fossils, NS
some SH, grays

MS-WS, crm to tan, some gray, f-xln to massive, chalky pcs scatt, fossils, cherty frgmts, m-gr oolitic pcs, Chert, wht, brn, fossilif
influx SH, dk. gray to grays, silty, pyrite specs

SH, dk. gray some silty
WS-MS, brn to crm/tan, m-xln to massive/dense pcs, firm to hard, f to m-gr oolitic, mineral specs/calcite, Chert, wht, NS

MS-WS, lt. brn to tan, crm, A.A., f-xln to massive, dense to hard, f-gr oolitic, gritty txt in pt., fossils scatt, moldic por.

MS, some WS, crm to lt. gray, f-xln to chalky, hard, some fossils, scatt dense, some massive pcs, dull fluor, NS, moldic por.
scatt SH, grays to green/brn, striated pcs

MS-WS, crm to tan, dense, fossils scatt, some m-xln, hard to firm, dull fluor, NS, moldic por. rare edge stn dry.

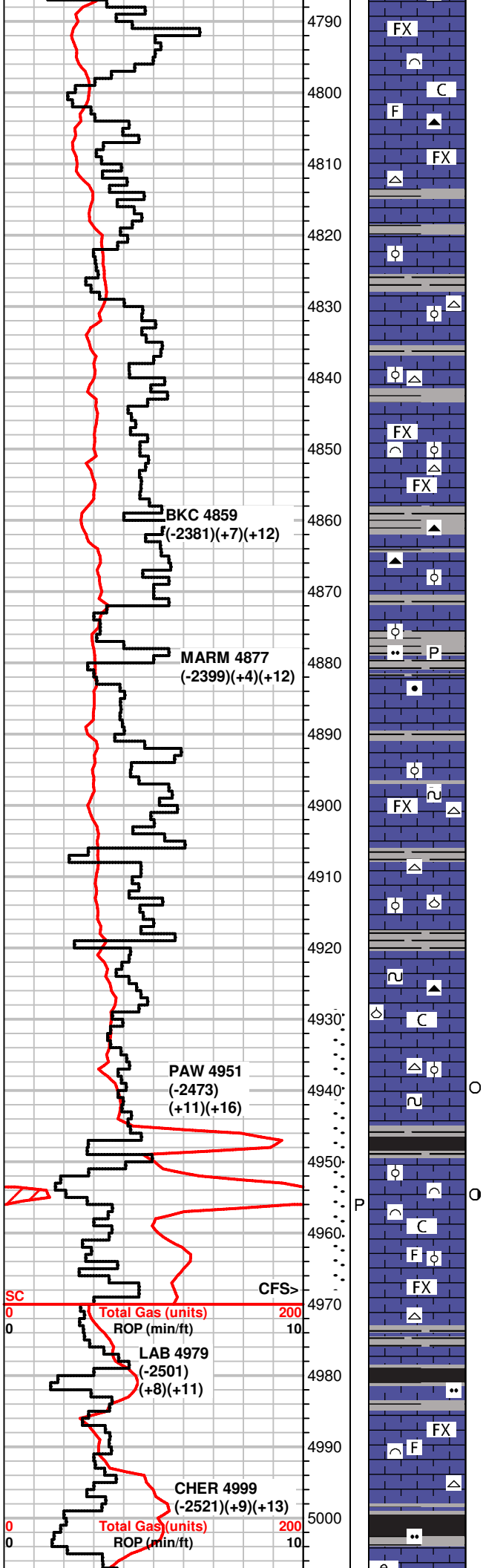
SH, blk, carb, silty, grays, pyrite flakes

MS-WS, crm to tan, f-xln to chalky, fossilif., dense pcs, glauc, CHert, lt. gray, wht, opaque, fossils

WS-MS, crm to off wht, f to m-gr oolitic pcs, moldic pcs scatt, some chalky, SH, grays, sandy to silty

WS-MS, A.A. off wht to crm, chalky to massive, dense, Chert, wht, NS

rare SH, blk to gray, brn, silty
MS-WS, off wht to crm, tan, chalky to f-xln, hard/brittle, fossils, m-gr oolitic pcs, brachs, pyrite, Chert, tan, wht



SH, blk to grays
MS, crm to tan, f-xln to chalky, some gray pcs, scatt fossils, dull fluor, NS, Chert, tan, wht, opaque

MS-WS, brn to crm, f-xln to m-xln, dense, hard to brittle, fossils, Chert, brn, fossilif,, wht, some SH, grays

MS-WS, crm to brn, f-xln to earthy, some dense, fossilif/oolitic pcs, tite calc mtrx, shaly pcs scatt, Chert, blk,. wht
some SH, blk to grays, gassy pcs rare

WS-PS, brn to crm, m-xln to massive, dense/hard, some chalky in pt., soft, sub oolitic pcs scatt, sli. shaly, Chert, wht, fossils, some SH, blk, gray, green

WS-MS, crm to tan, f-xln to chalky, m-gr oolitic/fossilif., brittle, Chert, wht, SH, gray to green, hard

some SH, grays, dk. gray, silty, MS-WS, crm to gray, tan, f-xln to m-xln, fossilif., NS, Chert, wht

WS-MS, brn, gray, crm, f-xln, chalky, dnse to firm, fossilif, shaly pcs, some Chert, wht, fossils, SH, blk to gray, green

MS, crm to gray, A.A, mostly massive, dense, some fossils, earthy pcs scatt, NS, Chert, blk

MS, gray to crm, f-xln to earthy, dense, hard, shaly in pt., sub oolitic pcs, mic-xln to massive, NS, SH, blk, gray, silty

MS, crm, lesser gray pcs, f-xln to massive, dense to friable, chalky in pt., scatt fossils, dec. in SH, grays, silty, pyrite flakes

MS, crm to lt. gray, earthy to f-xln, waxy looking, firm to dense, some chalky pcs, SH, rare blk, grays

WS-MS, crm to off wht, gray, tan, chalky to f-xln, firm, some dense, fossilif., gluac, NS, SH, blk to grays

MS-WS. A.A., crm to tan, off wht, f-xln, fossils scatt, NS, Chert, wht

MS-WS, off wht, f-xln, chalky pcs scatt, sub oolitic, some pcs shaly, firm, glauc/sandy, some SH, dk gray to green

influx, MS, crm to tan, vf-to m-xln, sub oolitic, glauc, Chert, wht, blk, fossils

MS, brn to crm, f-xln, dense, some soft chalky pcs, glauc, lesser fossils, Chert, wht

MS, crm to off wht, chalky to f-xln, f to m-gr oolitic/fossilif, firm, dense, rare v. spty bri. flour, no cut
SH, blk to gray, carb, gassy pcs

MW-WS, crm to tan, some brn, f-xln, dense, some earthy, chalky, firm to dense, fossilif, faint odor in bag, rare v. spty bright fluor, rare brn stn, 2 pcs w. resid. ring cut, lt partial stn dry, rare PP por.

MS, crm to tan, f-xln, dense to chalky, fossils, NS

MS, crm to tan, f-xln to massive, dense, hard, some fossils, Chert, wht, fossilif., SH, grays

SH, blk to dk. gray, silty

MS, crm to off wht, f-xln to chalky, firm, rare fossils, dull fluor, NS

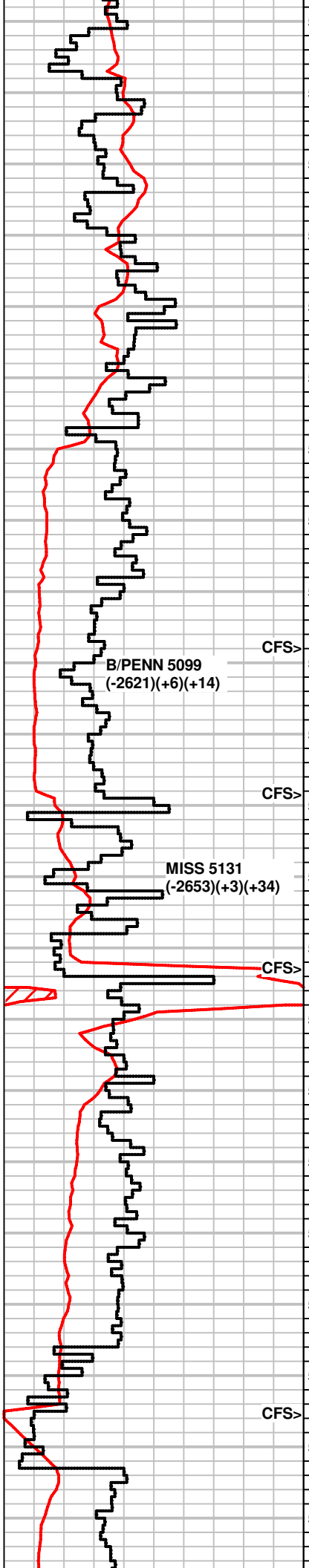
MS, crm to gray, brn, massive/dense, hard, scatt fossils, Chert, wht

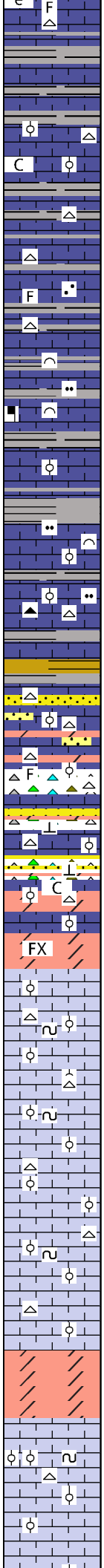
SH, blk, grays, carb
MS-WS, crm to tan, brn, chalky, sub oolitic pcs, Chert, wht, gray

DST #1 4928-4968
30-60-60-120
SB/2 min blt to 68.5"
BB blt to 3.66"
SB/9min, blt to 63"
BB blt to 3.6"
1478' GIP
Rec:
10' Clean Oil
124' GOWCM
(16g,10o,24w,50m)
62' GOWCM
(10g,30o,30w,30m)
124' W
IH 2419#
IF 68-97#
ISIP 928#
FF 118-187#
FSIP 960#
FH 2255#
Temp 116*F
Grav 38.2*
API Rw .11 @ 82*F
Cl 55,000

+55 UGK, shale gas

+77 UGK, w/ +30 UGK recycle





MS, crm, earthy to f-xln, firm to hard, rare fossils, NS
SH, lt gray to dk. gray

SH, blk, gassy pcs rare, grays, MS, crm to tan, A.A., hard, brittle, fossils scatt, Chert, wht

sli. inc in SH, blk to gray, WS-MS, tan to crm, f-xln , chalky txt, fossils, oolitic pcs, m-gr, firm, dull fluor, NS

SH, blk to gray, platy, WS-MS, crm to tan, f-xln, chalky in pt., fossilif., Chert frgmts to pcs wht/opaque Chert

DST #2 5080-5143
30-60-60-120
SB 30 sec, GTS 6"
Ga 1/2in choke
263 MCF/10min
301 MCF/20min
352 MCF/30min
NBB
GTS Immed Ga 1/2 in
331 MCF/10min
370 MCF/20min
380 MCF/30min
382 MCF/40min
383 MCF/50min
383 MCF/60min
NBB
4982' GIP
Rec: 90' GCM(10g,90m)
IH 2680#
IF 272-205#
ISIP 1527#
FF 245-207#
FSIP 1516#
FH 2492#
Temp 103*F

MS-WS, tan to crm, f-xln, sli. chalky, firm to hard, fossils/sandy pcs, Chert frgmts, wht, SH, grays, sandy

WS-MS, tan to brm, brn, f-xln to m-xln, hard to firm, fossilif/sub oolitic, sandy, mineral specs, SH, blk, gray, silty pcs,

SH, grays, blk, some pcs limey/calc
MS-WS, crm to tan, f to m-gr oolitic/fossilif., hard, dull fluor, NS

MS-WS, brn to crm, f- to m-xln, dense to firm, some pcs chalky, fossilif., oolitic in pt., dull fluor, NS, some SH, gray to blk, silty

MS-WS, crm to tan, brn, f-xln to massive, chalky in pt., sub oolitic to fossilif, brittle, cherty frgmts, shaly in pt., rare spty bright fluor, Resid. ring cut dry, no odor, rare Chert, brn to wht, fossils, SH, dk. gray to grays, sea green pcs scatt, some silty to sandy

SH, blk to grays, some sea green & mustard yellow, sandy to silty, MS-WS, crm to tan, some brn, f-xln to scatt chalky pcs, hard to firm, rare pcs w/ sprty bri. fluor, 2 pcs w/ milky to strmg cut, no odor, no free oil, dull min fluor,rare SS clusters, opaque, f-gr, sub ang, well srtd, hard, mineral specs, rare Chert wht

Dolo, gray to brn, vf-xln to vf-suc txt, hard, dull fluor, NS

SH, varicolored, silty pcs
MS-WS, crm to brn, massive to f-xln, sub oolitic to fossilif., chalky in pt., SS clusters, f-gr, hard, glauc/dk. mineral specs Chert, wht fossilif, sandy to wthrd pcs, 1 pc w/ live oil droplets, v. sptr dead stn, vuggy por., fresh Dolo, tan, vf-xln, hard, mineral fluor, int-xln por.

+20 UGK

+38 UGK

Dolo, tan, vf-xln to vf-suc txt, hard, bright min. fluor, 1 pc w/ inst cut, faint to fair odor in bag, int-xln por., spty to partial stn dry

WS-PS, off wht to crm, f-xln to chalky, hard to soft pcs, most m-gr oolitic, some pcs dense calc mtrx, scatt Chert wht, NS

Very poor samples, 85% SH blk to varicolored

PS-WS, off wht to crm, f-xln to chalky, f to m-gr oolitic, hard to firm, glauc specs, Chert, wht, fossils

Very poor samples, carrying 85-90% SH, blk to green, red, maroon, mustard yellow

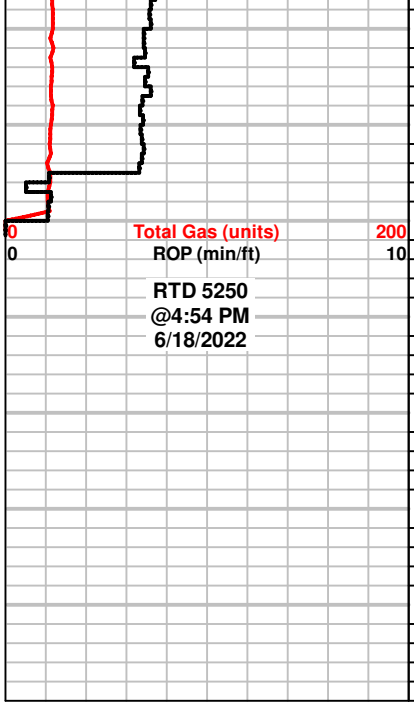
WS-PS, crm to off wht, f-xln to chalky, oolitic in chalky mtrx, hard to firm, dull fluor, glauc specs, NS scatt Chert, wht

Dolo, brn to gray, vf-xln, hard to brittle, rare pcs w/ f-gr cherty frgmts, some pcs sli. oolitic, dull mineral fluor, NS, barren, no vis por.

Dolo, gray to tan, f-xln to vf-xln, hard, mineral fluor, NS

Gas spike due to loss in power to iBall unit, lag quickly re-zeroed once power was restored

WS-PS, crm to off wht, f-xln to chalky, hard, micro oolitic to f-g oolitic pcs, dull fluor, NS
Chert, wht



5230

5240

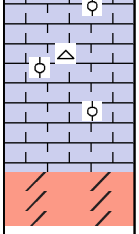
5250

5260

5270

5280

5290



PS-WS, off wht to crm, some tan, massive to f-xln pcs, micro oolitic to m-gr oolitic pcs, chalky in pt., NS, carrying SH, gray to blk, varicolored lesser

Dolo, crm to tan, vf-xln, sucrosic txt, hard, limey to calc., mineral fluor, NS