KOLAR Document ID: 1470254

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

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 #:

5/6/2019 Spud Date or Recompletion Date
5/17/2019 Date Reached TD
7/8/2019 Completion Date or Recompletion Date

API No.: 15-057-21010-00-00
Spot Description:
NW - NW - SE - NE Sec. 6 Twp. 29 S. R. 22 ☐ East ☑ West
1580 Feet from ☑ North / ☐ South Line of Section
1245 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: IMEL Well #: 4-6
Field Name: Kingsdown Northwest
Producing Formation: Mississippian
Elevation: Ground: 2511 Kelly Bushing: 2523
Total Vertical Depth: 5420 Plug Back Total Depth: 5419
Amount of Surface Pipe Set and Cemented at: 689 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: 18100 ppm Fluid volume: 850 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Elk Energy Holdings LLC
Lease Name: Karla SWD 2922 1-1 License #: 35420
Quarter SW Sec. 1 Twp. 29 S. R. 22 ☐ East ☑ West
County: Ford Permit #: D31368

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date: 08/28/2019
☐ **Confidential Release Date:** 08/27/2021
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 08/28/2019

Operator Name: Vincent Oil Corporation Lease Name: IMEL Well #: 4-6

Sec. 6 Twp. 29 S. R. 22 ☐ 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	9.625	23	689	MDC & Common	275	0 tp 4% Gel, 3% CC & 1/4# Flo-seal/sx
Production	7.875	5.5	14	5419	Pro C	175	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:	Producing Method:
7/8/2018	☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	15		15		

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)*	5251	5258
		5267	5277

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:	Set At:	Packer At:
	2.3750	5360	

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

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 4-6
Doc ID	1470254

All Electric Logs Run

Dual Induction
Density - Neutron
Micro log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 4-6
Doc ID	1470254

Tops

Name	Top	Datum
Heebner Shale	4368	(-1845)
Brown Limestone	4515	(-1992)
Lansing	4525	(-2002)
Stark Shale	4870	(-2347)
Base Kansas City	4975	(-2452)
Pawnee	5071	(-2548)
Cherokee Shale	5118	(-2595)
Base Penn Limestone	5214	(-2691)
Mississippian	5245	(-2722)
RTD	5420	(-2897)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 4-6
Doc ID	1470254

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
4	5251	5258			
4	5267	5277			Perforated Miss, treated all perfs with 1500 gal 15% MCA, swabbed water with trace oil, SDFN
					Swab 3-4 bbls /hr (30% oil), SDFN
					FL at 4480', 694' free oil on top, swab 3.5 bbl/hr (35% Oil), treated with 2000 gal NEFE,
					Rigged up to swab, swabbing load water. SDFN
					FL at 4650', 300 of oil on top, swabbed 5.25 bbl/hr (33-70% Oil)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 4-6
Doc ID	1470254

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
					Ran tubing and rods, set surface equipment, POP 15 BOPD 15 BWPD

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 4-6
Doc ID	1470254

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	9.625	23	689	MDC & Common	275	0 tp 4% Gel, 3% CC & 1/4# Flo-seal/sx
Production	7.875	5.5	14	5419	Pro C	175	5# Kol-seal/sx)

QUALITY WELL SERVICE, INC.

7120

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
5-7-19	6	29S	22W	Ford	KS		

Lease: Imel | Well No. 4-6 | Location: Kingsdown 1 3/4 W N into

Contractor: Duke Drlg. Rig 1

Type Job: 8 5/8

Hole Size: 12 1/4 | T.D. 692'

Csg.: 8 5/8 23# | Depth 691'

Tbg. Size | Depth

Tool | Depth

Cement Left in Csg. 42.25 | Shoe Joint 42.25

Meas Line | Displace 41.52

Owner

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.

Charge To: Vincent Oil Corp

Street

City | State

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

Cement Amount Ordered: 125 sx MDC 3% CC 1/4 CF
150 sx Common 2% Gel 3% CC 1/4 CF

EQUIPMENT

	No.		
Pumptrk 8	No.	TJ	
Bulktrk 10	No.	TJ/J	
Bulktrk 15	No.	J/J	
Pickup	No.		

JOB SERVICES & REMARKS

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

On Loc Rig Circ on Bottom
Start Csg Run 16 Jts 8 5/8 23' (csg set)
Baffle Plate 1 Jt. 42.25
Csg on Bottom Hook up to csg Break
Circ W/ Rig
Start Pumping 1/2
Start Mix + Pump 125 sx Lead 12% ...
Start Mix + Pump 150 sx Tail 15 ...
Shut Down Release 8 5/8 Wooden Plug
Start Disp
Plug down 41.52 bbls
Close Valve on csg 500# 11:30
Good Circ thru Job
Circ Cmt to Pit
Thank You
Please Call Again Todd T. Jake

X
Signature [illegible]

Common 150 sx	
Poz-Mix 125 sx MDC	
Gel. 8 sx	
Calcium 10 sx	
Hulls	
Salt	
Flowseal 66.25	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling 293	
Mileage 60/2500	

FLOAT EQUIPMENT

Guide Shoe Baffle Plate 1 EA	
Centralizer 8 5/8 Wooden Plug 1 EA	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Service Supv	
LMV 60	
Pumptrk Charge SFC 501-1500'	
Mileage 130	
Tax	
Discount	
Total Charge	

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
5/8/2019	C-2023

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

P.O. No.	Terms	Lease Name
		Imel #4-6

Description	Qty	Rate	Amount
8 5/8 Baffle Plate	1	95.00	95.00T
8 5/8 Wooden Plug	1	85.00	85.00T
MDC	125	18.00	2,250.00
Common	150	15.50	2,325.00
Gel	8	22.00	176.00
Calcium	10	60.00	600.00
Flo-Seal	66.25	3.70	245.13
SFC 501-1500'	1	750.00	750.00
Handling	293	2.10	615.30
.08 * sacks * miles	8,500	0.08	680.00
Service Supervisor	1	150.00	150.00
LMV	60	3.75	225.00
Heavy Equipment Mileage	180	8.00	1,440.00
Customer Discount		-4,432.76	-4,432.76
Discount Expires after30 days from the date of the invoice		0.00	0.00
Imel #4-6 Ford Co.			
Surface Casing (Cont)			

Thank You for your business!

Subtotal	$5,203.67
Sales Tax (7.65%)	$13.77
Total	$5,217.44

QUALITY WELL SERVICE, INC.

7122

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
5-17-19	6	29S	22W	Ford	Ks		

Lease: Imel — Well No.: 4-6 — Location: Kingsdown Ks 1 3/4 N W: N 1/40

Contractor: Duke Drlg Rig #1

Owner:

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.

Type Job	5½ L.S.		
Hole Size	7 7/8	T.D.	5422'
Csg.	5½	Depth	5420'
Tbg. Size		Depth	
Tool		Depth	
Cement Left in Csg.	42.35	Shoe Joint	42.35
Meas Line		Displace	131.23

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

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

Cement Amount Ordered: 225 sx Pro C 2% Gel 10% Salt 5#/sx Kolseal .7% C16A ¼# PS

EQUIPMENT

	No.		
Pumptrk 8	TS		
Bulktrk 15	Jake		
Bulktrk			
Pickup			

Common	225 sx	
Poz. Mix		
Gel.	4 sx	
Calcium		
Hulls		
Salt	25 sx	
Flowseal	56.25#	
Kol-Seal	1125#	
Mud CLR 48	500 gal	
CFL-117 or CD110 CAF 38	C16A 198#	
Sand	10 gal CC-1	
Handling		
Mileage	60	

JOB SERVICES & REMARKS

Rat Hole: 30 sx
Mouse Hole: 20 sx
Centralizers: 1-3-5-7-9-11
Baskets:
D/V or Port Collar:

Ran 128 jts 5½ 14# csg set @ 5420'
first 20 jts scrd Blstop Reg G Shoe AFU Insert
1st 42.35 start csg csg on Bottom + Tag
Hook up to csg Break circ w/rig Drop Ball
circ w/rig 30 min
Start Pumping 10 Bbls H2O 12 Bbls MF 10 Bbls H2O
Start Plug R-M Holes 50 sx
Start Mix Down csg 175 sx @ 14.8#/gal 1.50 ft³
Shut Down Wash up RL! Release 5W plug
Start Disp w/2% KCL
Lift psi 112 Bbls out 650
Land plug 1100# 131.28 out
psi up csg 1600#
Release! Held ½ Bbl Back
Good circ the job
Thank you TS Jake Brent Ethan

FLOAT EQUIPMENT 5½ L

Guide Shoe	1 EA
Centralizer	6 EA
Baskets	
AFU Inserts	1 EA
Float Shoe	1 EA Top Rubber Plug
Latch Down	
Service Supv.	
LMV 60	
Pumptrk Charge	Longstring
Mileage	120
Tax	
Discount	
Total Charge	

X Signature

Quality Well Service, Inc.

PO Box 468
Pratt, KS 67124

Invoice

Date	Invoice #
5/21/2019	C-2028

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

P.O. No.	Terms	Lease Name
		Imel #4-6

Description	Qty	Rate	Amount
5 1/2 Guide Shoe	1	135.00	135.00T
5 1/2 Centralizer	6	50.00	300.00T
5 1/2 AFU Insert	1	165.00	165.00T
5 1/2 Rubber Plug	1	55.00	55.00T
Pro-C	225	18.00	4,050.00T
Gel	4	22.00	88.00T
Salt	25	13.00	325.00T
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	148	7.50	1,110.00T
CC-1	10	35.00	350.00T
Longstring	1	1,750.00	1,750.00
Handling	254	2.10	533.40
.08 * sacks * miles	8,500	0.08	680.00
Service Supervisor	1	150.00	150.00
LMV	60	3.75	225.00
Heavy Equipment Mileage	120	8.00	960.00
Customer Discount		-3,728.48	-3,728.48
Discount Expires after30 days from the date of the invoice		0.00	0.00
Imel #4-6 Ford Co.			
Production Casing. (cmt)			

Thank You for your business!

Subtotal	$8,699.80
Sales Tax (7.65%)	$621.94
Total	$9,321.74

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64968 **DST#: 1**

Test Start: 2019.05.14 @ 19:34:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:07:17
Time Test Ended: 05:01:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 5242.00 ft (KB) To 5287.00 ft (KB) (TVD)
Total Depth: 5287.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

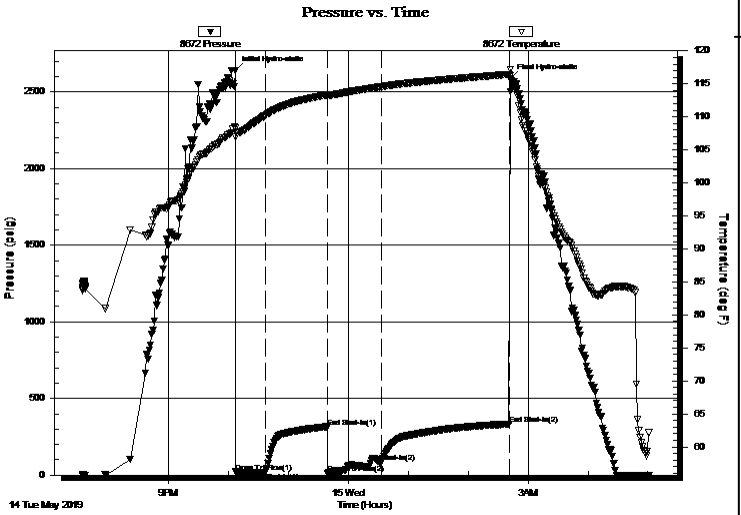
Reference Elevations: 2523.00 ft (KB)
2511.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 **Inside**

Press@RunDepth: 82.19 psig @ 5243.00 ft (KB)
Start Date: 2019.05.14 End Date: 2019.05.15
Start Time: 19:34:01 End Time: 05:01:47

Capacity: psig
Last Calib.: 2019.05.15
Time On Btm: 2019.05.14 @ 22:07:02
Time Off Btm: 2019.05.15 @ 02:42:32

TEST COMMENT: IF: Fair Blow , BOB in 11 minutes, Built to 35 inches
ISI: No Blow Back
FF: Strong Blow , BOB in 2 Minutes, Built to 30 inches
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2640.17	108.32	Initial Hydro-static
1	21.39	106.94	Open To Flow (1)
31	17.44	110.27	Shut-In(1)
92	315.73	113.29	End Shut-In(1)
93	13.96	113.26	Open To Flow (2)
146	82.19	114.57	Shut-In(2)
274	333.02	116.47	End Shut-In(2)
276	2583.96	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	305 GIP	0.00
10.00	SGCM 5%G 95%M	0.14

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64968 **DST#: 1**

Test Start: 2019.05.14 @ 19:34:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:07:17
Time Test Ended: 05:01:47

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 5242.00 ft (KB) To 5287.00 ft (KB) (TVD)
Total Depth: 5287.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

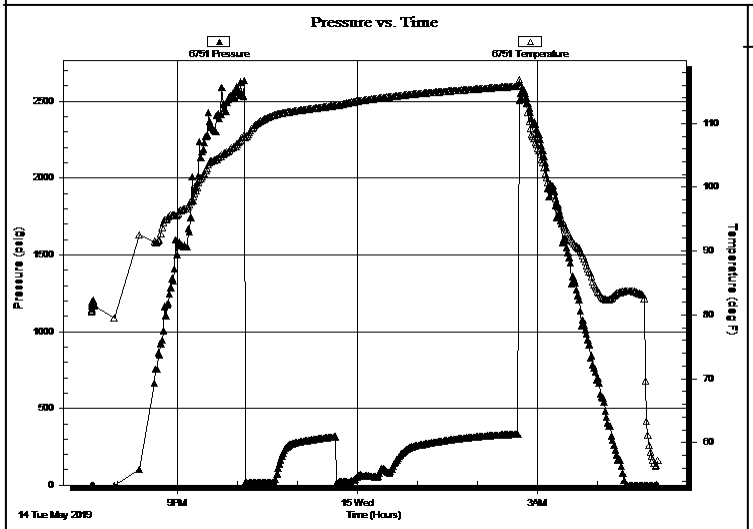
Reference Elevations: 2523.00 ft (KB)
2511.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: psig @ 5243.00 ft (KB)
Start Date: 2019.05.14 End Date: 2019.05.15
Start Time: 19:34:01 End Time: 05:01:47

Capacity: psig
Last Calib.: 2019.05.15
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow , BOB in 11 minutes, Built to 35 inches
ISI: No Blow Back
FF: Strong Blow , BOB in 2 Minutes, Built to 30 inches
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
0.00	305 GIP	0.00
10.00	SGCM 5%G 95%M	0.14

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64968 **DST#: 1**

Test Start: 2019.05.14 @ 19:34:00

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	6800.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

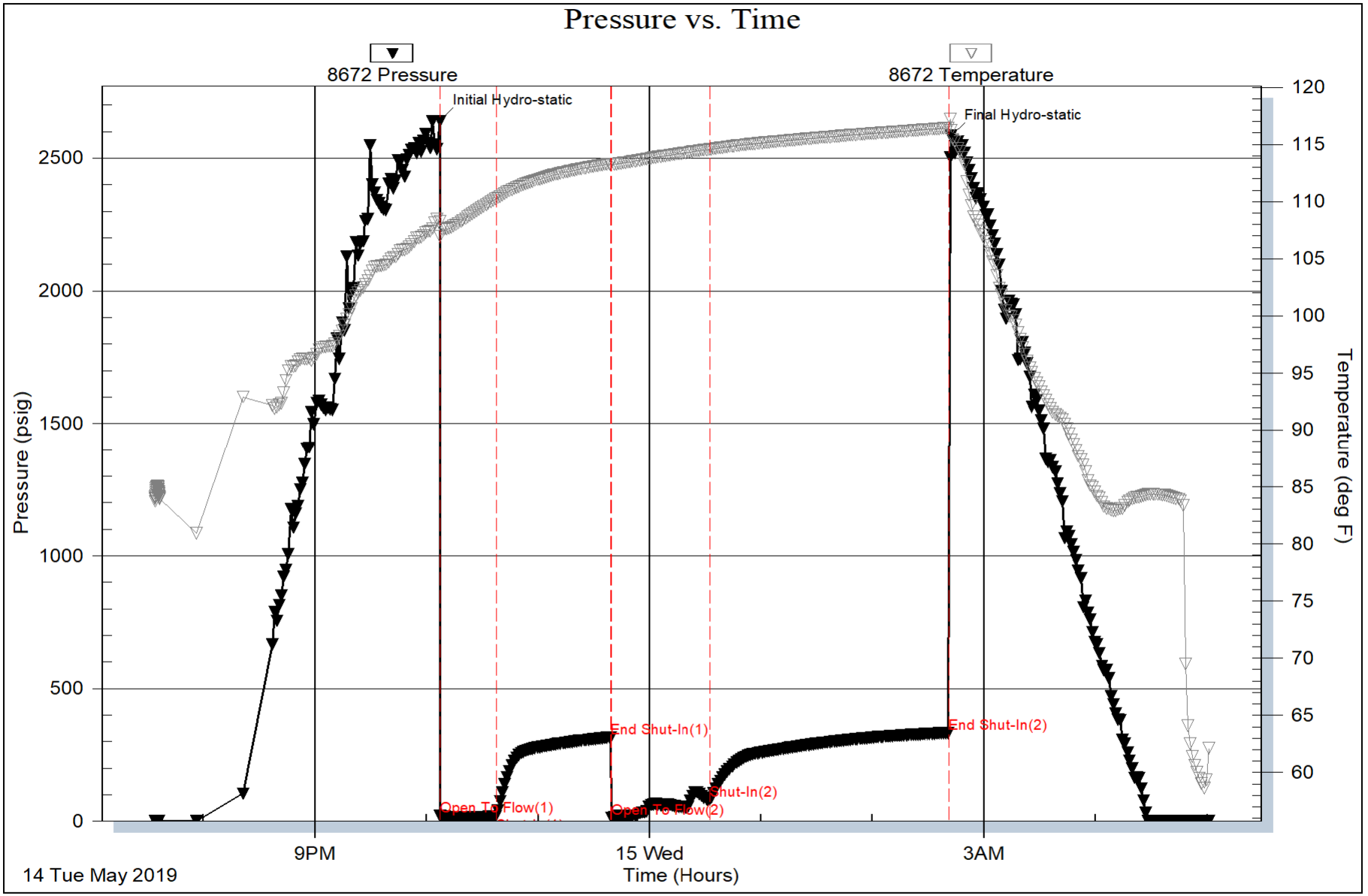
Recovery Table

Length ft	Description	Volume bbl
0.00	305 GIP	0.000
10.00	SGCM 5%G 95%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

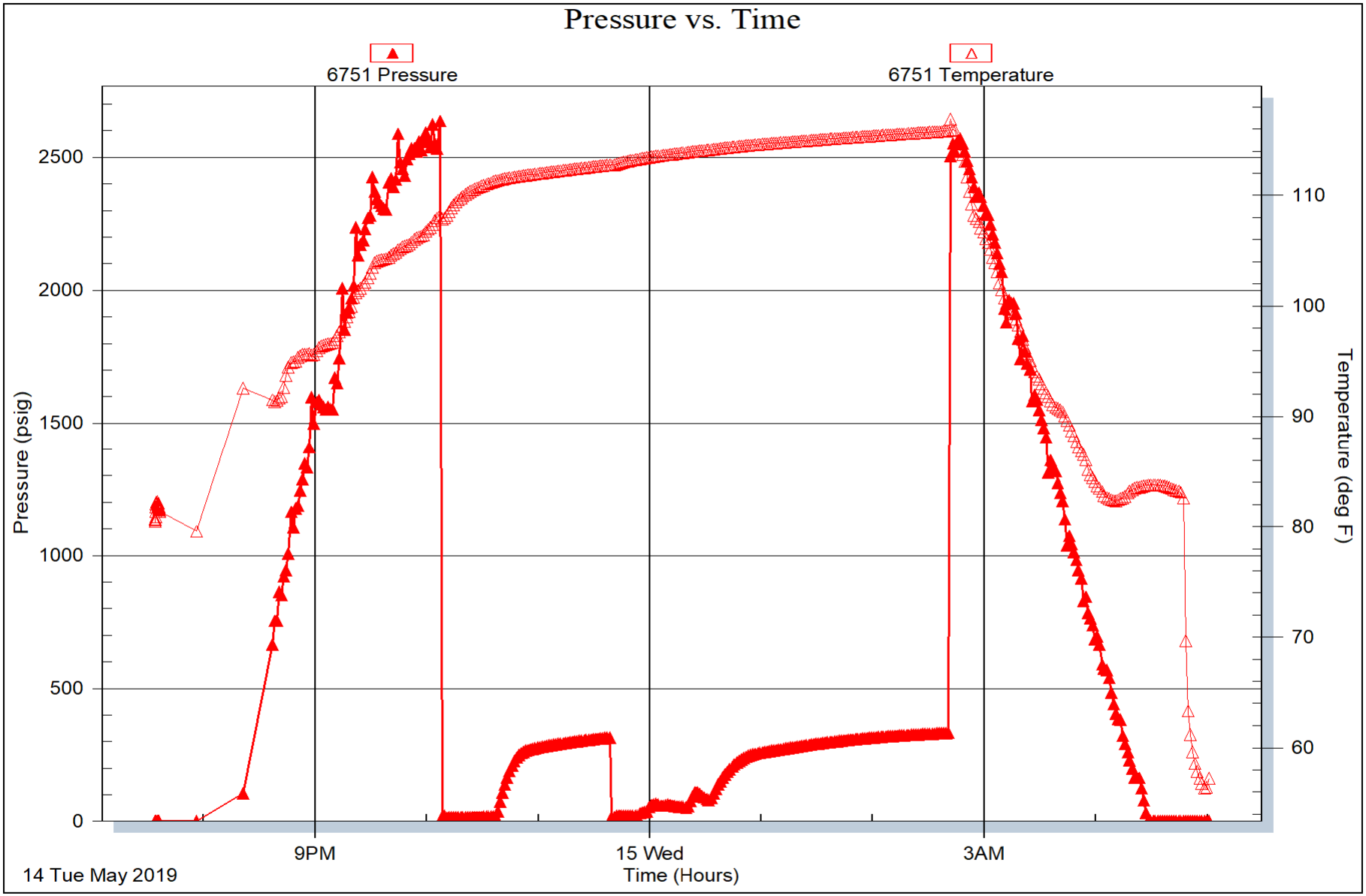
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8672 **Inside** Vincent Oil Corporation Imel 4-6 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64968 Printed: 2019.05.15 @ 07:23:41

Serial #: 6751 **Outside** Vincent Oil Corporation Imel 4-6 DST Test Number: 1



DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64969 **DST#: 2**

Test Start: 2019.05.15 @ 17:31:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:44:02
Time Test Ended: 02:54:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5320.00 ft (KB) To 5370.00 ft (KB) (TVD)
Total Depth: 5370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

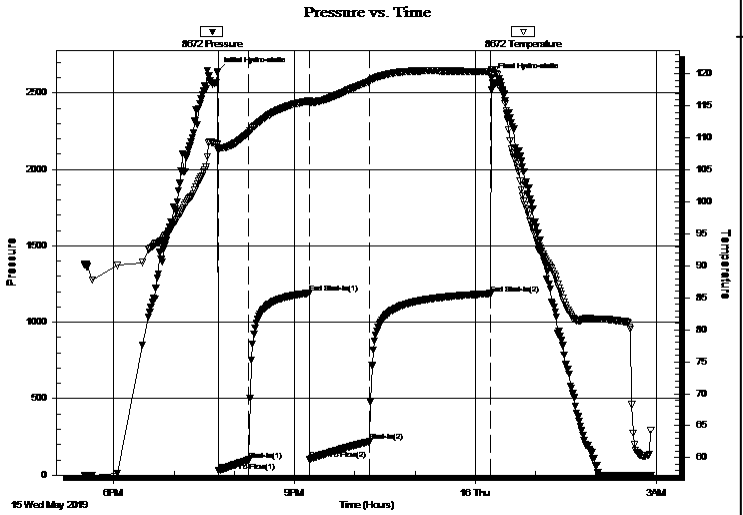
Reference Elevations: 2523.00 ft (KB)
2511.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 **Inside**

Press@RunDepth: 219.63 psig @ 5321.00 ft (KB)
Start Date: 2019.05.15 End Date: 2019.05.16
Start Time: 17:31:01 End Time: 02:54:47

Capacity: psig
Last Calib.: 2019.05.16
Time On Btm: 2019.05.15 @ 19:43:02
Time Off Btm: 2019.05.16 @ 00:16:17

TEST COMMENT: IF: Fair Blow , Built to 10 inches
ISI: No Blow Back
FF: Fair Blow , BOB in 55 minutes, Built to 12 1/2 inches
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2637.47	109.00	Initial Hydro-static
1	27.09	108.00	Open To Flow (1)
32	99.51	110.82	Shut-In(1)
92	1190.26	115.74	End Shut-In(1)
92	103.81	115.49	Open To Flow (2)
152	219.63	118.86	Shut-In(2)
273	1187.55	120.41	End Shut-In(2)
274	2597.99	120.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Water	3.48
124.00	MCW 10%M 90%W	1.74
30.00	MCW 20%M 80%W	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64969 **DST#: 2**

Test Start: 2019.05.15 @ 17:31:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:44:02
Time Test Ended: 02:54:47

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5320.00 ft (KB) To 5370.00 ft (KB) (TVD)
Total Depth: 5370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

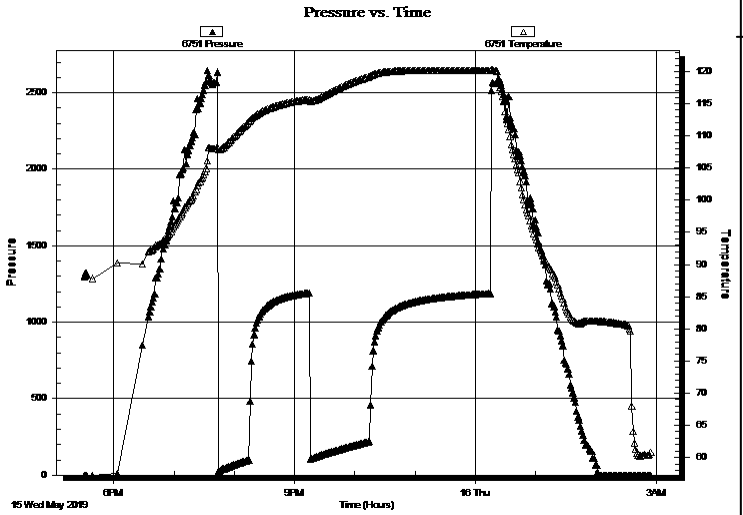
Reference Elevations: 2523.00 ft (KB)
2511.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6751 **Outside**

Press@RunDepth: psig @ 5321.00 ft (KB)
Start Date: 2019.05.15 End Date: 2019.05.16
Start Time: 17:31:01 End Time: 02:54:47

Capacity: psig
Last Calib.: 2019.05.16
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Fair Blow , Built to 10 inches
ISI: No Blow Back
FF: Fair Blow , BOB in 55 minutes, Built to 12 1/2 inches
FSI: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
248.00	Water	3.48
124.00	MCW 10%M 90%W	1.74
30.00	MCW 20%M 80%W	0.42

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave # 725
Wichita, KS 67202

ATTN: Tom Dudgeon

6-29S-22W Ford

Imel 4-6

Job Ticket: 64969 **DST#: 2**

Test Start: 2019.05.15 @ 17:31:00

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:	60000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	10.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9900.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	Water	3.479
124.00	MCW 10%M 90%W	1.739
30.00	MCW 20%M 80%W	0.421

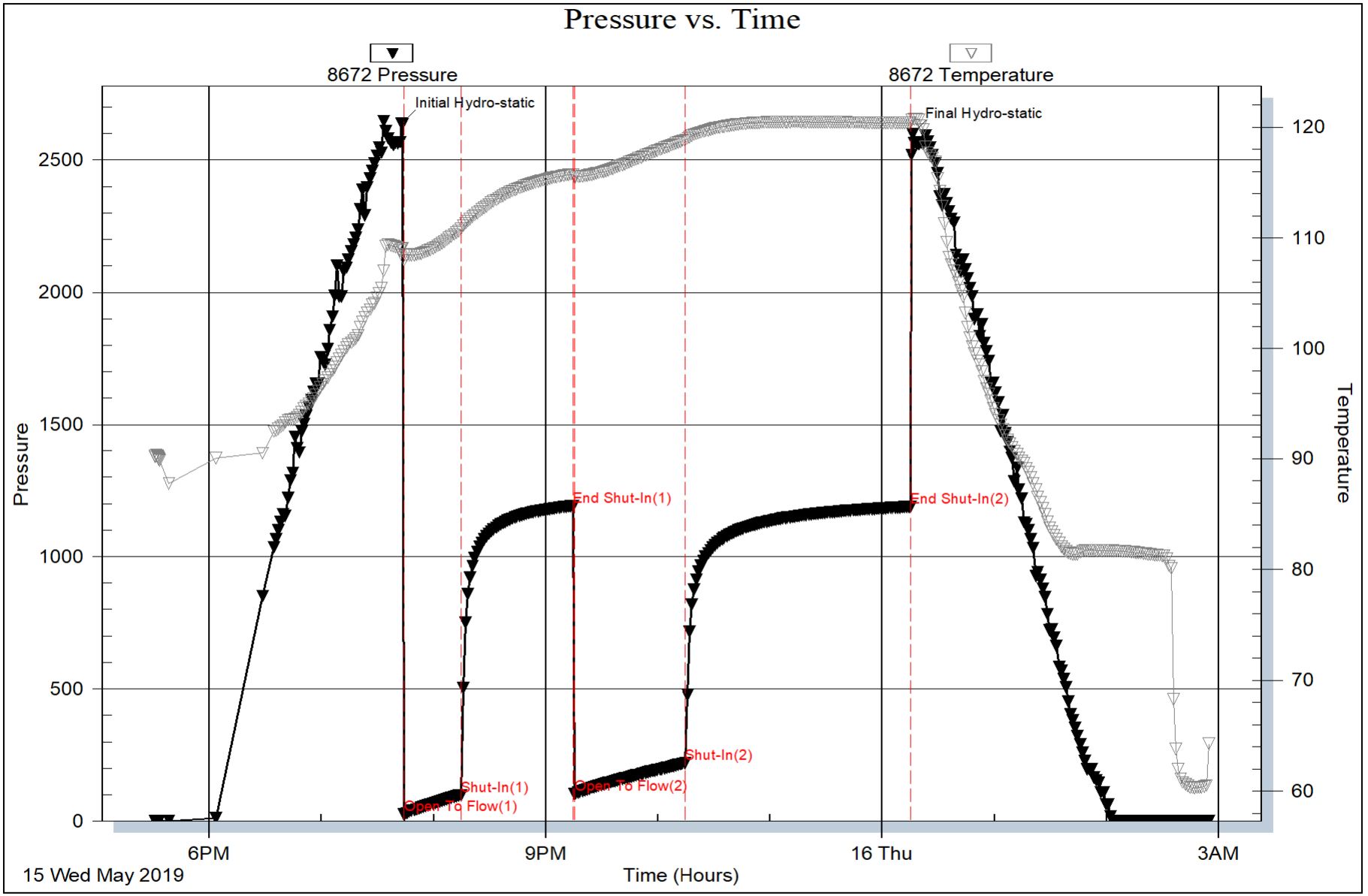
Total Length: 402.00 ft Total Volume: 5.639 bbl

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

Laboratory Name: Laboratory Location:

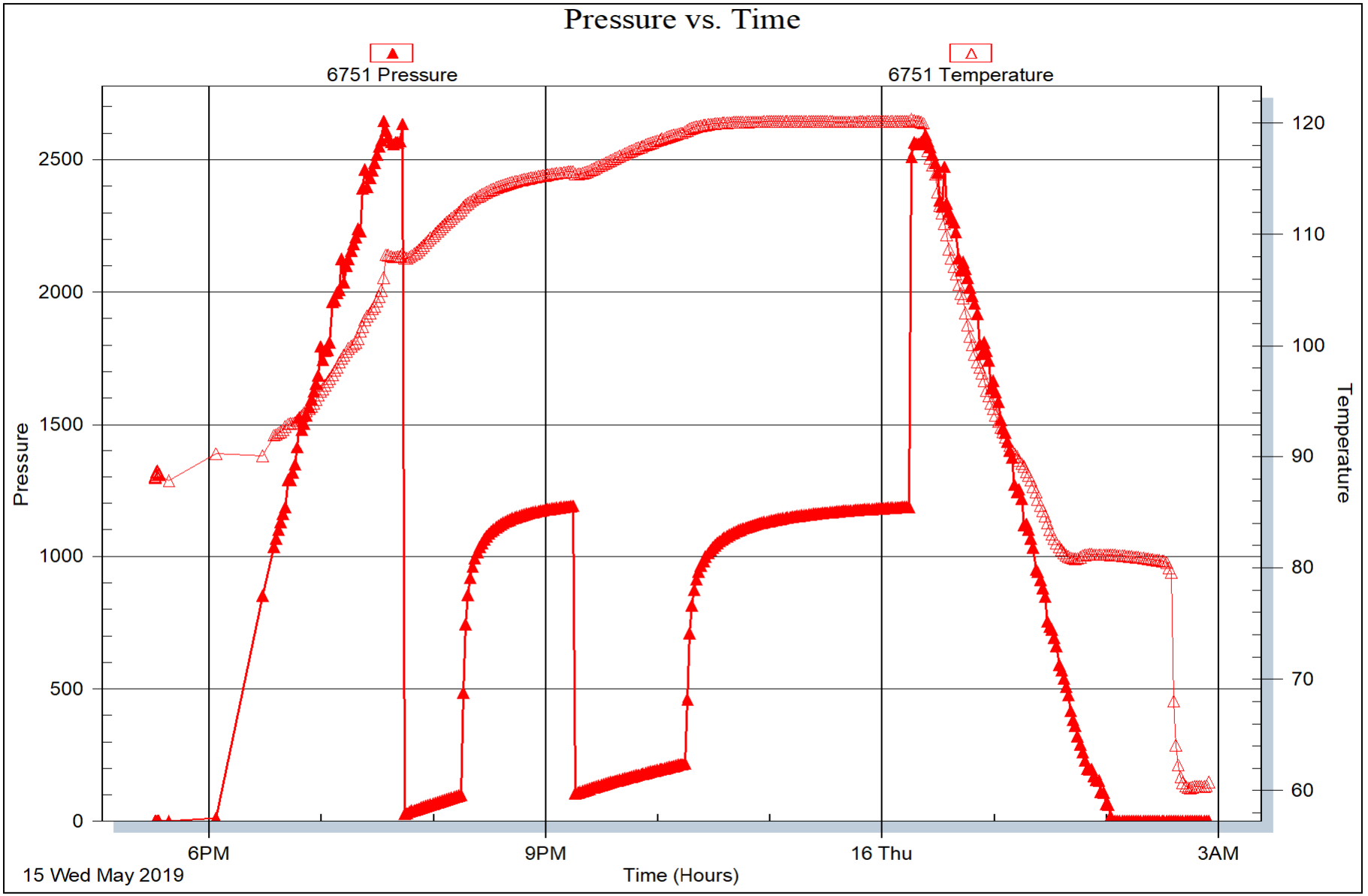
Recovery Comments: RW w as .12 @ 75 degrees

Serial #: 8672 **Inside** Vincent Oil Corporation Imel 4-6 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64969 Printed: 2019.05.16 @ 06:24:45

Serial #: 6751 **Outside** Vincent Oil Corporation Imel 4-6 DST Test Number: 2



Scale 1:240 Imperial

Well Name:	Imel 4-6		
Surface Location:	1580' FNL _1245' FEL 6-29S-22W		
Bottom Location:			
API:	15-057-21010-00-00		
License Number:	5004		
Spud Date:	5/6/2019	Time:	7:45 PM
Region:	SW KS		
Drilling Completed:	5/16/2019	Time:	8:53 AM
Surface Coordinates:	1580' FNL & 1245' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2511.00ft		
K.B. Elevation:	2523.00ft		
Logged Interval:	4200.00ft	To:	5420.00ft
Total Depth:	5420.00ft		
Formation:	Mississippian		
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:	Imel 4-6		
Location:	1580' FNL _1245' FEL 6-29S-22W		
API:	15-057-21010-00-00		
Pool:	Developmental	Field:	Kingsdown NW
State:	KS	Country:	USA

CONTRACTOR

Contractor:	Duke Drilling Co., Inc.		
Rig #:	1		
Rig Type:	Mud Rotary		
Spud Date:	5/6/2019	Time:	7:45 PM
TD Date:	5/16/2019	Time:	8:53 AM
Rig Release:	5/17/2019	Time:	10:00 PM

LOGGED BY

Company:	Vincent Oil Corporation		
Address:			
Phone Nbr:	316.262.3573		
Logged By:	Geologist	Name:	Tom Dudgeon

ELEVATIONS

K.B. Elevation:	2523.00ft	Ground Elevation:	2511.00ft

K.B. Elevation:	2523.00ft	Ground Elevation:	2511.00ft
K.B. to Ground:	12.00ft		

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	5420.00	5422.00
LTD	5422.00	5422.00

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	37.5520124
Latitude:	-99.761563
N/S Co-ord:	1580' FNL
E/W Co-ord:	1245' FEL

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	5/16/2019	3791.00ft	5420.00ft

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	689 ft	23#	16	
Int Casing					
Prod Casing	5.5 in		14#	121	

CASING SEQUENCE

Type	Hole Size	Casing Size	At
Surface Casing	12.25 in	8.63	689.00 ft
Production Casing	7.88 in	5.50	5419.00 ft

OPEN HOLE LOGS

Logging Company:	ELI Wireline		
Logging Engineer:	Jason Cappellucci		
Truck #:	3802		
Logging Date:	5/16/2019	Time Spent:	5
# Logs Run:	4	# Logs Run Successful:	4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5420.00ft	0.00		1
DEN/NEU/PE	4200.00ft	5420.00ft	0.00		1
Micro	4200.00ft	5420.00ft	0.00		2
Sonic	0.00ft	5420.00ft	0.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
5/16/2019	0.00ft	5420.00ft	Logs Run Successfully

DRILLSTEM TESTS

No	Interval	Formation
1	5242-5287	Mississippian
2	5320-5370	Mississippian

NOTES

REFERENCE WELLS

A

Vincent Oil Corporation Imel #2-6

2170' FNL & 860' FEL

Sec. 6-29S-22W

Rocks classified using the Dunham Classification
Mudstone (MS)
a mud-supported carbonate rock containing <10% grains
Wackestone (WS)
a mud-supported carbonate lithology containing >10% grains
Packstone (PS)
a grain-supported fabric containing 1% or more mud-grade fraction

Imel 4-6 Tops				Elevation	2523	KB
			Struct.			
Top	Depth	Datum	Imel 2-6	Imel 3-6	LOG TOPS	LOG DATUM
HBR	4367	-1844	3	8		
BL	4515	-1992	3	7		
LANS	4524	-2001	5	11		
STARK	4871	-2348	1	8		
HUSH	4907	-2384	-1	12		
BKC	4974	-2451	-2	9		
MARM	4994	-2471	3	12		
PAW	5071	-2548	-2	5	5071	-2548
LAB	5096	-2573	-2	6	5096	-2573
CHER	5117	-2594	FLT	4	5118	-2595
B/PENN	5214	-2691	-2	7	5214	-2691
MISS	5239	-2716	-1	5	5246	-2723

STRAIGHT HOLE SURVEY

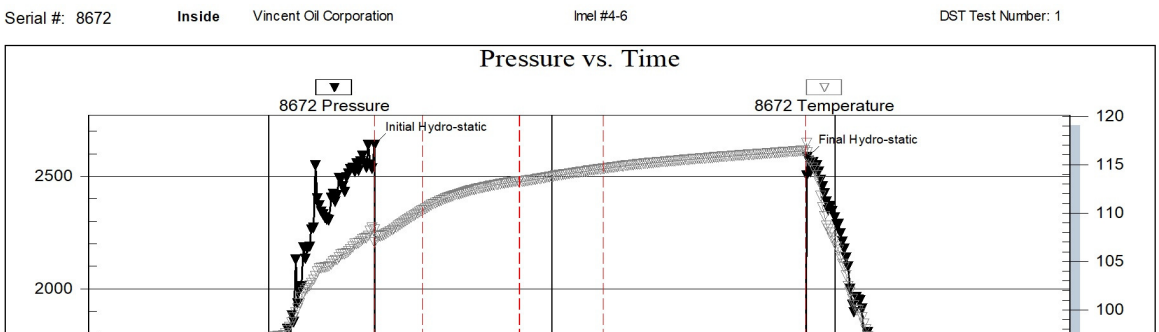
Degree	Depth
1°	692
1°	1554'
3/4°	2059'
3/4°	2562'
1°	3067'
1°	3572'
1°	5287'

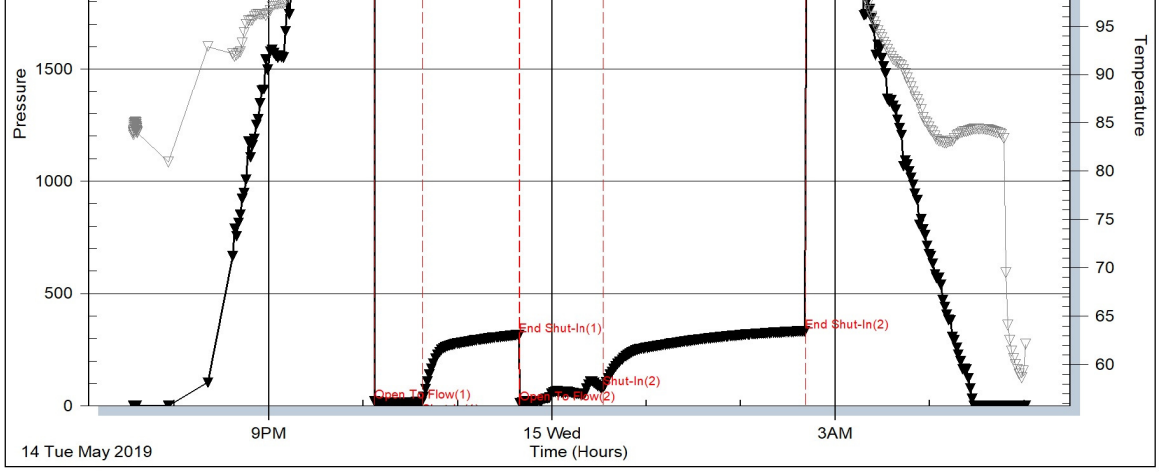
Pipe Strap 1.52 Short to Board @ 5287'

Surface Casing/Cementing: Ran 16 joints new 8 5/8", 23# surface casing, set at 689' and cemented with 125 sx MDC (3% CC & ¼# Flo-seal/sx) and 150 sx Common (4% Gel, 3% CC & ¼# Flo-seal/sx), plug down at 11:30 AM 5/7/2019, Cement did circulate. WOC, drilled out from under plug at 8:00 PM 5/7/2019.

Production Casing/Cementing: Ran 121 joints of 5.5" , 14# production casing with bottom 20 joints sandblasted to help with cement bonding, Set casing at 5419' with 42' shoe joint on bottom. Rigged up cementers and cemented casing with 175 sx Pro C (5# Kol-seal /sx, & 7% C16A), landed plug at 1100# and bumped plug to 1600# and float held. The rathole was plugged with 30 sx and the mousehole plugged with 20 sx. Cementing completed at 10:00 Am 5/17/2019.

DST #1

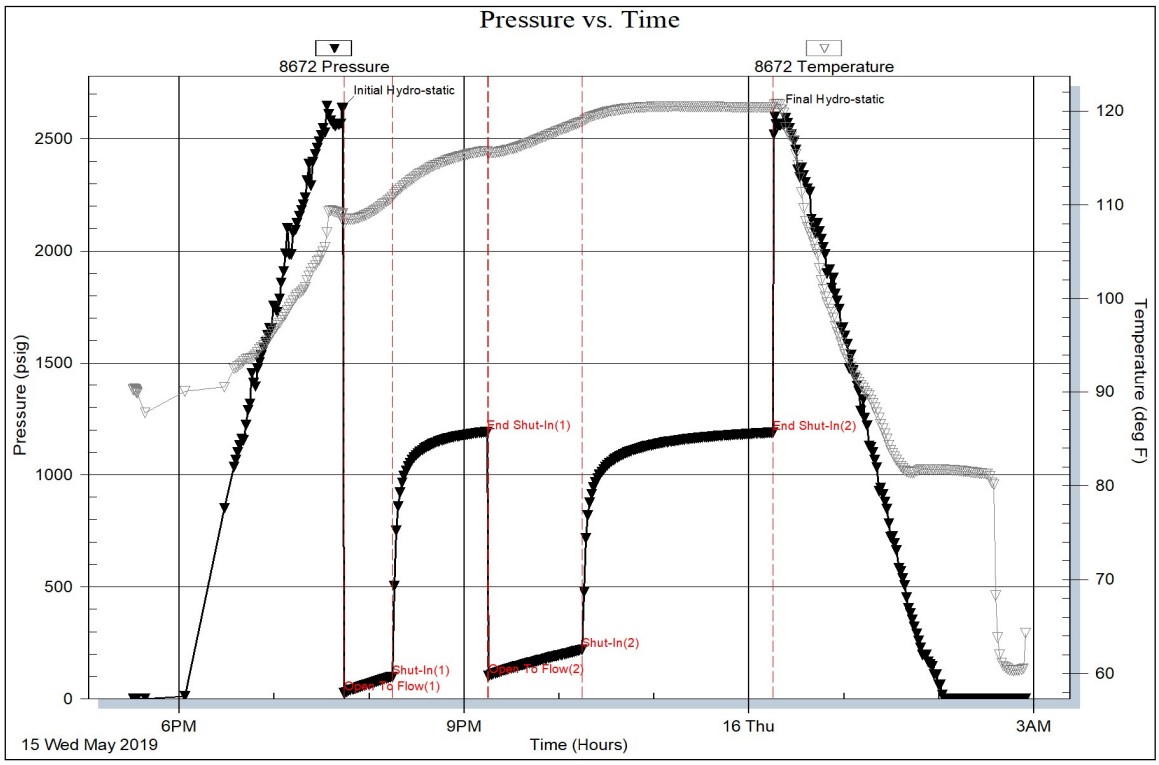




Trilobite Testing, Inc Ref. No: 64968 Printed: 2019.05.16 @ 08:23:30

DST #2

Serial #: 8672 **Inside** Vincent Oil Corporation Imel #4-6 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64969 Printed: 2019.05.16 @ 08:20:59

ROCK TYPES

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

ACCESSORIES

MINERAL
- Chert, dark
- Chert White

FOSSIL
- Bioclastic or Fragmental
- Crinoids
- Oolite

STRINGER
- Conglomerate

OTHER SYMBOLS

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

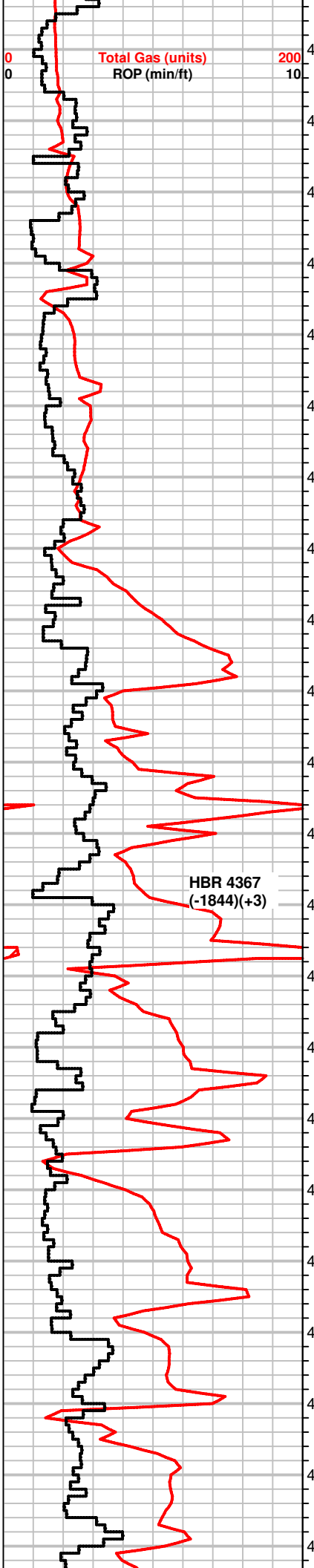
OIL SHOWS
- ● Even Stn
- ◐ Spotted Stn 50 - 75 %
- ◑ Spotted Stn 25 - 50 %
- ◔ Spotted Stn 1 - 25 %
- ○ Questionable Stn
- D Dead Oil Stn
- ■ Fluorescence

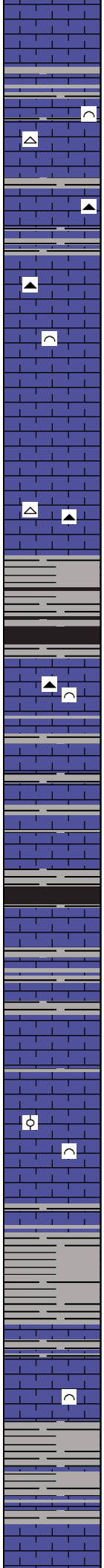
INTERVALS
- ■ Core
- ⋱ DST

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) 200 0 ROP (min/ft) 10 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240		C		Reference Well: Imel 2-6 2170' FNL & 860' FEL 2-29-22W MS-WS, off wht to crm, f-xln to chalky txt, fossil frgmsts, some gray pcs, dense mic-xln txt/massive, scatt fossils, some SH, red to green	





MS-WS, scatt PS, off wht to lt. tan, f-xln, fn-gr oolitic pcs, firm to friable, aprtly chalky, fossilif., NS, Chert, wht, brachs, fus
SH, grays

MS, crm to tan, f-xln to mic-xln, massive to chalky pcs, lesser fossils, some calcite veins, SH, grays, silty to sandy, red, Chert, grays

MS-WS, crm to off wht, chalky to f-xln, waxy, firm to hard, micro-oolitic pcs, some dnse, silty pcs scatt, dull fluor, NS

MS-WS, brn to crm, dense/massive to chalky/f-xln pcs, A.A., some scatt fossil frgmts, Chert, gray to opaque, fossilif., calcite, NS

SH, gray to brn, silty,
MS-WS, crm to tan, brn, mottled pcs, mineral specs, chaly to dense pcs, f-xln sandy in pt., scatt fossils, Chert, opaque, gray, fossils, NS

SH, blk to gray, dk. gray, silty pcs scatt, MS-WS, off wht to crm, f-xln, off wht to crm, some pcs mic-xln, scatt fossils, scatt mottled pcs A.A., NS

SH, blk to brn, silty, gassy, some pcs sli. carbonaceous

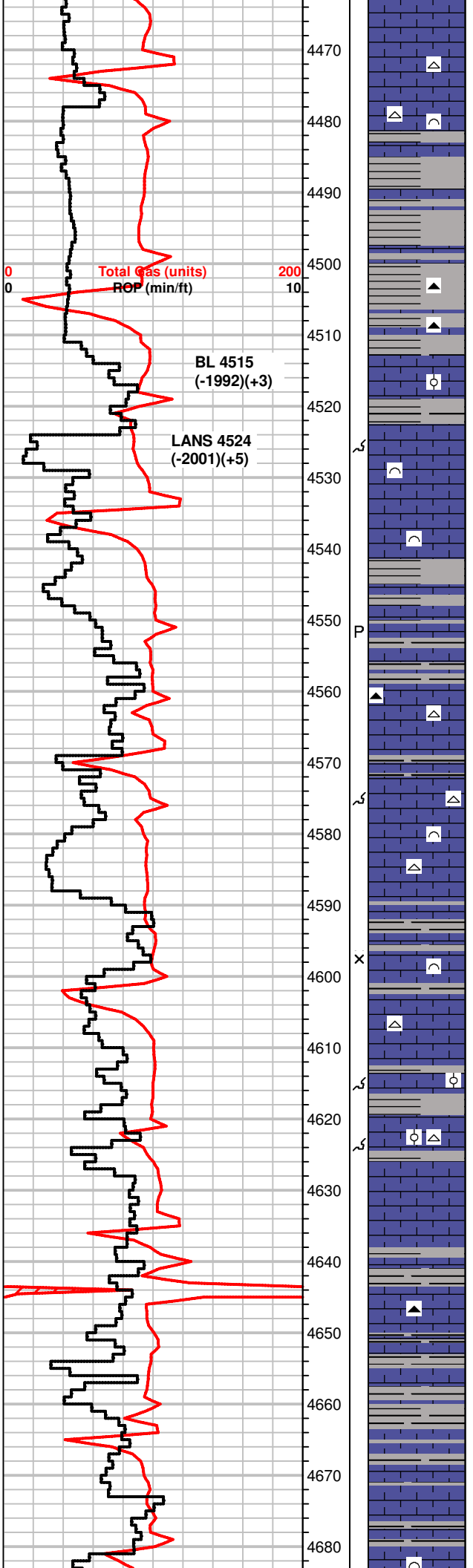
MS-WS, crm to tan, gray, scatt oolitic pcs, f to m-gr, some pcs sandy to shaly, pyrite, wormy mineral filled veins, NS, scatt SH, grays, blk

SH, blk to dk. gray, waxy, lesser amt, some silty, scatt carb. pcs
MS-WS, crm to tan, vf-xln to m-xln, sandy/silty pcs, rare, most massive txt, some chalky, scatt fossilif. pcs, NS

MS, off white to lt. gray, f-xln to mic-xln txt, dense scat fossils, Chert, whte, gray, NS
SH, gray to brn, silty in pt.

MS, ctm to lt. tan, vf-xln to f-xln, firm to dense pcs, scatt gritty txt, fossilif in pt., rare brn pcs, sandy txt, vuggy por., NS, scatt SH, brn to grays, silty pcs.

MS-WS, off wht to lt. gray, rare mottled pcs, f to m-xln, sandy pcs, scatt fossils, some dense pcs, calcite, SH, blk to green, grays



SH, gray to blk, green, limey pcs
MS, crm to tan, f-xln, dense, waxy pcs, some shaly, scatt fossils, dull fluor, NS Chert, opaque

SH, gray to blk, green, silty to sandy pcs

SH, blk, green, gray, red, silty to sandy, MS, off wht to crm, brn to tan pcs, f-xln to massive, hard, dense, NS, Chert, gray to wht

MS, crm to brn, f-xln to massive, m-gr oolitic/fossilif., gritty to silty pcs, hard, dull fluor, NS, poor moldic por.
SH, blk, grays, silty to limey pcs

MS-WS, crm to off wht, f-xln to chalky, some brn/tan pcs, f to m-xln, gritty, fossils scatt
SH, grays to green, silty pcs scatt

MS, crm to off wht, vf-xln to massive, some chalky pcs, firm to hard, some brittle, granular pcs, poor PP por., Chert, lt. gray, SH, grays

MS-WS, tan to crm, lt. gray, f-xln to vf-xln, gritty to granular, some fossils scatt, most massive to dense, dull fluor, NS, moldic por.
Chert, wht to tan, blocky

MS-WS, crm to tan, gray, glassy/frosted looking pcs, chalky in pt., f to mic-xln,massive pcs, fossilif. in pt., hard to brittle, NS, int-xln por.
SH, grays, sandy, greenish

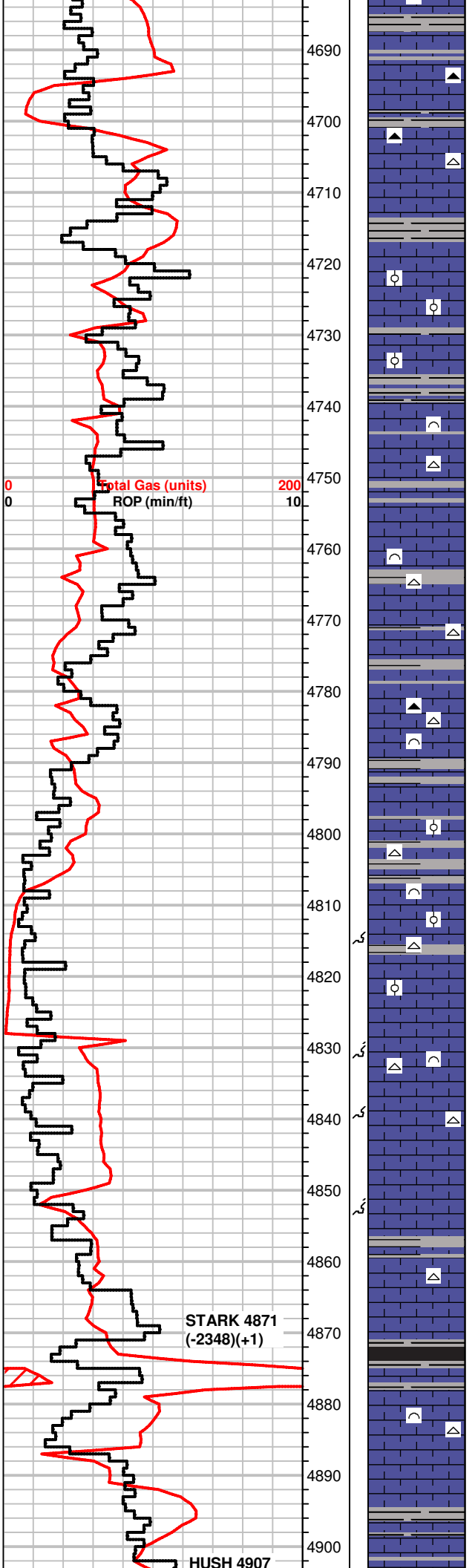
MS, lt. crm to tan, f-xln, mostly chalky, f to m-xln, gritty txt, fossils, some Chert, wht to gray, fossils, NS, rare moldic por.
SH, grays to greens, sandy in pt., lesser

MS-WS, gray to tan, some brn, f-xln to vf-xln, dense, massive pcs, scatt fossils, minerals(dark) in chalky mtrx, Chert, gray to tan,
rare SH, grays

Trap Test

WS-MS, brn to gray, crm, mottled pcs, gritty, rare micro oolitic pcs, fossils, hard, some pcs friable, shaly in pt., NS, Chert, wht
some SH, gray to green

Influx SH, blk, grays to greens, silty/limey in pt., MS-WS, crm to tan, some gray pcs, f-xln, waxy to m-xln, fossilif., dark minerals, dull fluor, NS



Fresh SH, gray to dk. gray, greenish, silty to sandy, platy, WS-MS, crm to tan, chalky mtrx, dense to friable/soft pcs, fossilif./shaly pcs, some massive, tite, Chert, wht, gray, brn, opaque

SH, dk. gray to gray

WS-MS, crm to tan, some brn, f-xln to m-xlnk, m-gr oolitic/sub oolitic pcs, fossilif., some massive/dense pcs, Chert, wht, tan, fossil/inclusions, SH, grays, waxy to silty

SH, grays, waxy, silty, A.A., incr. amt, some blk, sli. carb.
MS-scatt WS, crm to tan, f-xln to chalky pcs, sub oolitic, some hard/dense pcs, shaly in pt., Chert, tan, wht, gray

SH, gray to dk. gray, greens, sandy to silty, MS-WS, crm to tan, f to m-xln, m-gr fossil/chert frgmts, firm to hard, some pcs chalky, Chert, wht, tan, fossilif.

SH, dk. gray to gray, A.A., lesser amt., MS-WS, tan to crm, some lt. gray, waxy to chalky, most f-xln, some dense, fossilif in soft mtrx, some Chert, brn, wht

Some SH, grays, green, platy
MS, rare WS, lt.gray to tan, crm, chalky to vf-xln, some dense looking, firm to friable, rare f-gr, sub oolitic pcs, dull fluor, NS Chert, wht

Inc in SH, grays, platy, rare blk/green pcs, pyrite
MS, crm to lt. gray, f-xln to vf-xln, firm, brittle, scatt fossils, chalky in pt., Chert, bone wht to opaque, fossils, moldic por.

SH, gray to green

WS-MS, scatt PS, crm to tan, off wht, rare brn, chalky to f-xln, soft to firm pcs, sub oolitic, rare dense pcs, some sandy, Chert, wht, moldic por.

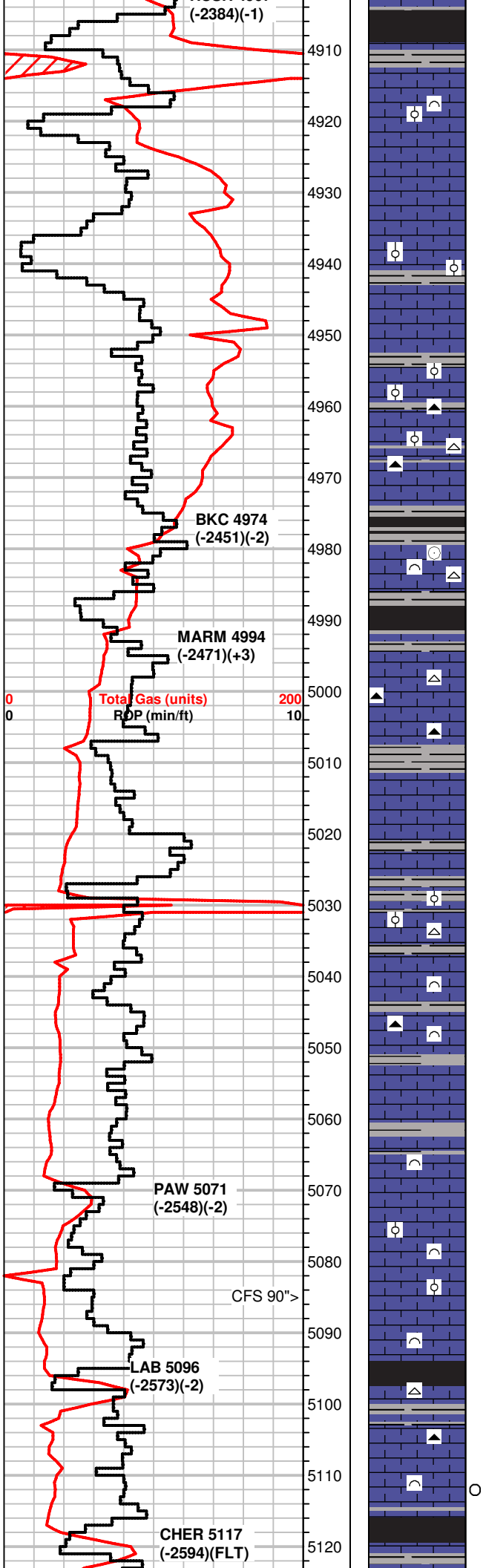
WS-PS, crm to tan, f-xln to m-xln, firm to hard, some chalky, oolitic, m-gr, bioclastic pcs, dull fluor, NS, Chert, wht, tan, fossils

SH, blk, grays, carb.

230 Units, +170 UGK

MS-PS, crm to tan, chalky to f-xln, soft to firm, scatt fossils, some blocky, dense pcs, Chert, gray, fossils

some SH, blk to grays
MS-WS, crm to tan, f-xln to chalky, rare m-gr ooids in soft calc mtrx, soft pcs, rare mottled pcs, fossilif., dull fluor, NS



SH, blk, grays, brn, rare limey in pt.

MS-WS, brn to crm, f-xln to massive pcs, dense to soft pcs, some chalky, scatt fossils, NS

250 Units, +190 UGK

MS-WS, crm to tan, brn, f-xln to m-xln, fossilif. to oolitic pcs, firm to hard, SH, blk to grays, brn

MS-PS, crm to tan, brn to gray, fxln to chalky txt, some pcs m-gr sub oolitic to oolitic, fossilif., hard to firm, brittle pcs, Chert, tan, brn, blk, SH, some blk, grays, silty, hard to soft pcs

MS-WS, brn to gray, crm pcs scatt, vf-xln, dense, silty pcs, scat fossils(Crinoids), bioclastic frgmnt pcs, NS, Chert, opaque, mineral specs, SH, blk, to gray, brn, hard, limey pcs

SH, blk to grays, silty, hard
MS-WS, brn crm, f-xln to chalky, hard to firm, scatt fossils, shaly, sandy pcs, Chert, blk, brn

MS, gray to crm, f-xln gritty to earthy, hard, dense, some shaly pcs, massive in pt., Chert, blk, brn, SH, grays, silty

WS-MS, crm to tan, chalky to earthy, f-xln pcs, barren massive pcs to m-gr oolitic, dense to friable, rare glauc specs, SH, blk, to grays, silty

SH, gray, green, striated, silty to sandy, MS-WS, crm to off wht, chalky to m-gr oolitic, A.A., some milky wht oolitic w/ chalky mtrx, NS

PS-WS, off wht to crm, f-xln to chalky, m-gr oolitic to suboolitic/fossilif. pcs, some massive pcs, glauc, hard, NS, Chert, wht, fossils
some HS, grays, greens, silty to waxy

Trap Test, Equipment Test

PS-WS, A.A., influx MS, crm to tan, f-xln to mostly chalky pcs, hard, m-gr oolitic pcs rare, Chert, brn, SH, grays, brn

MS-WS, crm to tan, brn, f-xln to massive pcs, silky to waxy looking, some granular/oolitic pcs, firm to hard, shaly pcs/chalky, dull fluor, NS

MS-WS, off wht to crm, tan, chalky to vf-xln, some dense/massive, hard to brittle, scatt fossils, Chert, tan, brn, SH, green, gray

57 Units, +22 UGK, shale gas

SH, blk to grays, carb, WS-MS, tan to crm, vf-xln to f-xln, hard, dense, scatt fossils, suboolitic pcs, Chert, wht, fossils, dull mineral fluor, NS

MS, crm to off wht, chalky to earthy, hard to brittle pcs scatt, some fossils rare sub oolitic pcs, Chert, wht

MS-WS, crm to tan, f-xln to m-gr oolitic, firm to hard, brittle, chalky to earthy, dull fluor, NS, SH, grays, green, silty

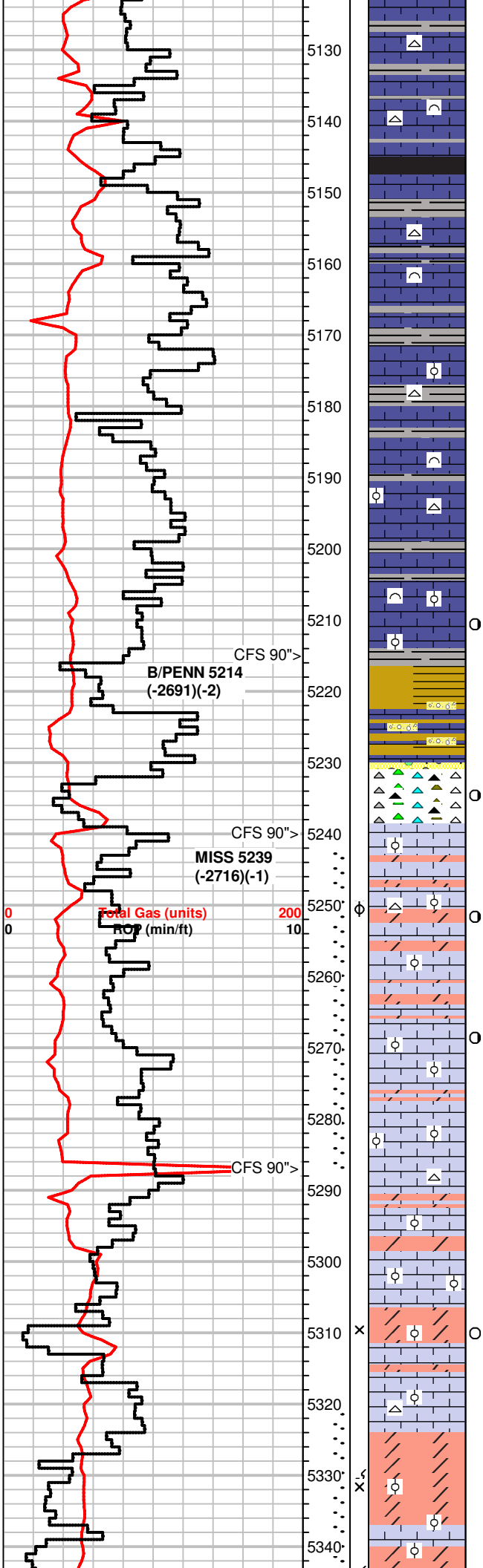
SH, blk to grays
MS, crm to brn, f-xln, some chalky, vf-xln, subb oolitic pcs, soft to firm, some fossils, Chert, blk, gray, wht

+50 UGK, Shale gas

MS, gray to crm, f-xln, massive, some chalky pcs, most dense, scatt fossil fgrmts, 1 pcs w/ bright fluor on edge, v. faint cut, no odor, chert, wht

SH blk to gray, green, carb
MS-WS, brn to crm, f-xln to vf-xln, dense, brittle, chalky pcs scatt,

+55 UGK, Shale gas



some fossils, Chert, wht,

Fresh SH, blk, green, grays, MS, crm to tan, brn, f-xln to chalky, firm to hard, fossilif., Chert, wht, NS

MS, crm to tan, some gray, f-xln to mic-xln, dense to chalky pcs, brittle, fractures, sub oolitic pcs, no odor, NS, sli. influx SH, blk

SH, blk to gray, green, carb., MS, brn to tan, f to m-xln, chalky to massive pcs scatt, firm to soft, rare dense, scatt fossils, NS, Chert, wht

SH, blk to grays, MS-WS, gray to crm, brn, f-xln silty, chalky pcs, rare mottled pcs, scatt m-gr ooids in chalky mtrx

MS-WS, crm to brn, gray, silty to chalky in pt., f-xln oolitic/fossilif., soft, carrying SH, gray to blk, pyrite/carb.

WS, brn to crm, gray, chalky to f-xln A.A., fossilif pcs scatt, firm to brittle, some SH, grays

MS-WS, crm to tan, brn, most f-xln chalky, firm, some mic-xln, dense massive pcs, scatt fossils in chalky mtrx, SH, blk, gray, sandy pcs

SH, blk to green, fresh, silty to sandy
MS, brn to tan, vf-xln to massive txt, dense, brittle, rare fossils, dull fluor, NS, Chert, wht

MS-WS, crm to tan, brn, f-xln to mic-xln, dense to firm pcs, fossils/f-gr oolitic/bioclastic pcs scatt, dull fluor, 1 pc w/ bright fluor, no cut, rare dry pcs w/ partial sat. sli stn(3 pcs), no odor

SH, vari-colored, mostly grays to dk. gray, sea green, mustard yellow, maroon, waxy, silty in pt.
MS, brn to tan, crip to mic-xln, dense, scatt oolitic to forams,

SH, varicolored, sandy, f-gr Qtz grs., MS-WS, crm to tan, mic to f-xln, chalky in pt, mose dense, massive, some m-gr dark oolitic pcs, yellow fluor, rare pcs w/ oil stn in int-xln por., inst strmg to milky cut, Chert, wht to tan, gray, blk, fresh to sli. wthrd pcs, fossilif., rare pcs w/ stn in vuggy to int-xln por., milky to streaming cut, faint odor in 60" bag.

70 Units TG, +30 UGK

MS-WS, crm to tan, f-xln to massive txt, rare sub oolitic pcs, scatt fossils, rare Dolo, brn, f-xln , f-gr oolitic(2pcs), sat/stn, inst cut, faint odor in bag

DST #1 524-5287
Mississippian
30-60-60-120
FB, BOB 11min, blt to 35 inches
NBB
SB BOB 2min, blt to 30 inches
Rec:
305' GIP
10' SGCM(5g,95m)
IH 2640#
IF 21-17#
ISIP 316#
FF 14-82#
FSIP 333#
FH 2584#
Temp 117*F
Pipe Strap.
1.52 Short to Board

MS-WS, rare PS, off wht to crm, tan, chalky to f-xln, some crip-xln, m-gr oolitic in tite calc. mtrx, dull fuor, NS

WS-PS, off wht to crm, m-gr oolitic, f-xln, dull fluor, Dolo, brn, some w/ fine sugary txt, co-gr inclusions, brn stn, bleeding gas, inst cut,

MS-WS, crm to tan, off wht, f-xln to chalky, scatt massive pcs, most sob oolitic to oolitic/fossilif., dense to friable, dull fluor, NS
Chert, wht, tan

MS-WS, crm to tan, f-xln sub oolitic, chalky txt in pt., Chert, wht, fossils
MS-PS, off wht to tan, chalky to f-xln txt, firm, oolitic to sub oolitic pcs, rare glauc specs, NS, scatt Dolo pcs, f-xln, sucrosic, partial stn(<25% of 1 pc), Chert, wht

MS-WS< crm to tan, lt. gray, dolomititc in pt., Vf-xln to f-xln, sucrosic looking pcs, mostly chalky, m-gr oolitic, mineral fluor, NS

Dolo, crm to brn, f-xln some m-xln, sucrosic sugary txt, m-gr, firm to hard, some friable, rare stn, very spotty bright fluor, inst. cut from scatt pcs, v. faint odor

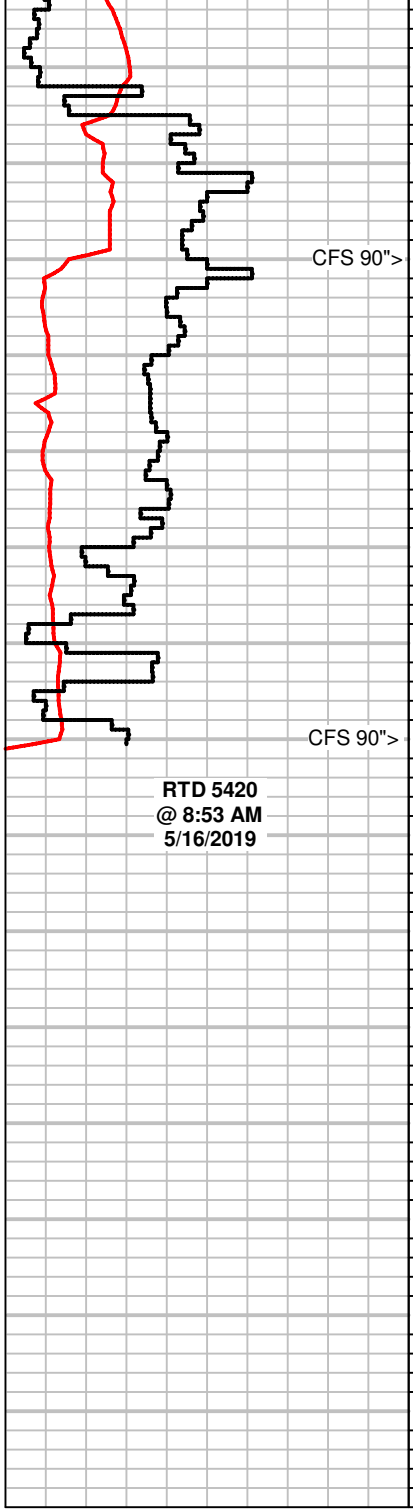
+15 UGK, no recycle

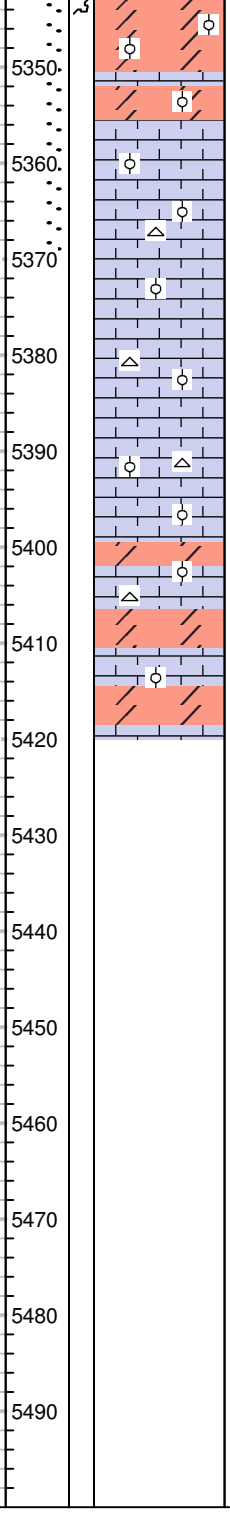
DST #2 5320-5370
Mississippi
30-60-60-120
FB, Blt to 10 inches
NBB
FB, BOB 55 min, blt to 12.5 inches
NBB
Rec: TF 402'
30' MCW(20m,80w)
124' MCW(10m,90w)

MS-PS, crm to of wht, f-xln, m-gr oolitic, firm, chalky, NS

Dolo, brn to crm, f-xln, sucrosic txt, hard to firm, dull min. fluor, NS vuggy por.

Dolo, tan to brn, f-xln to m-xln sucrosic pcs, some fossilif to oolitic, dark inclusions, dull fluor, NS





Dolo, brn to tan, f- to m-xln, sucrosic txt, some pcs f to m-gr oolitic, black to gray inclusions, mineral fluor, NS

WS-PS, crm to off wht, chalky to vf-xln, soft to firm, m-gr oolitic, some in soft chalky mtrx, rare glauc, dull fluor, NS

WS-PS, inc. amt, wht to off wht, fossilf to m-gr oolitic, NS, rare Chert, wht

MS-WS, off wht to crm, f-xln pcs scatt, most chalky, soft to brittle/hard pcs, fossilif to m-gr oolitic. dull fluor, NS
Chert, wht, opaque, oolitic

MS-WS, PS, crm to off wht, oolitic, m-gr, chalky to f-xln mtrx, some hard, most soft to firm, NS

Dolo, tan to brn, vf-xln, fn-sucrosic txt, firm to hard, dull mineral fluor, NS

MS-WS, off wht to crm, f-xln to chalky, oolitic, NS

Dolo, crm to brn, vf-xln, fn-sucrosic, hard to dense, min. fluor, NS

248' Water
IH 2637#
IF 27-99#
ISIP 1190#
FF 104-220#
FSIP 1187#
FH 2598#
Temp 120*F
API Rw .12 @ 75*F
Cl 60,000ppm