

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 5-5
Doc ID	1464542

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 5-5
Doc ID	1464542

Tops

Name	Top	Datum
Heebner Shale	4369	(-1853)
Brown Limestone	4518	(-2002)
Lansing	4528	(-2012)
Stark Shale	4864	(-2348)
Base Kansas City	4973	(-2457)
Pawnee	5067	(-2551)
Cherokee Shale	5112	(-2596)
Base Penn Limestone	5207	(-2691)
Mississippian	5230	(-2714)
RTD	5320	(-2804)

QUALITY WELL SERVICE, INC.

7070

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
3-2-19	5	29S	22W	Font	Ks		
Lease Imel	Well No. 55	Location Kingsdown Ks N to Wildhorse Rd					
Contractor Duke Oily Rig #1				Owner 1/4 E N into			
Type Job Surface				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4	T.D. 693'						
Csg. 8 5/8 23"	Depth 687'	Charge To Vincent Oil Coop.					
Tbg. Size	Depth	Street					
Tool	Depth	City State					
Cement Left in Csg. 42.22	Shoe Joint 42.22	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line	Displace 41.5	Cement Amount Ordered 125 sc mdc 3 1/2 CC 1/4" CF					
EQUIPMENT				150 sc Common 2 1/2 CC 3 1/2 CC 1/4" CF			
Pumptrk 8 No.	TS	Common 150 sc					
Bulktrk 10 No.	TODD	Poz Mix 125 sc mdc					
Bulktrk 15 No.	JAKE	Gel. 5 sc					
Pickup No.		Calcium 10 sc					
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 68.75			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 16 st's 8 5/8 23" csg set @ 697'				Sand			
Baffle plate ht = 42.22				Handling 291			
csg on Bottom Hook up to csg				Mileage 60			
Break circ w/leg				8 5/8 FLOAT EQUIPMENT			
START Pumping 10 Bbls H ₂ O				Guide Shoe			
START Mix! Pump 125 sc mdc				Centralizer			
START Mix! Pump 150 sc Common				Baskets 1 EA Baffle Plate			
SHUT DOWN				AFU Inserts 1 EA Woodrow Plug			
Release Plug 8 5/8 Woodrow				Float Shoe			
START DSP				Latch Down			
Plug down				SERVICE Spt.			
41.5 out 450'				LMI 60			
Close Valve on csg				Pumptrk Charge SFC			
Good circ thru job Circ CMT TO P.T				Mileage 120			
Thank you PLEASE Call AGAIN				Tax			
TODD TS JAKE				Discount			
Signature <i>[Handwritten Signature]</i>				Total Charge			

QUALITY WELL SERVICE, INC.

7078

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
3-12-19	5	29S	22W	Ford	Ks		
Lease Imel	Well No. S-5	Location Kingsdown 1 N to Wildfire Rd					
Contractor Duke Drlg Rig #1	Owner 1/4 E N into			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 4 1/2 L.S.	Hole Size 7 7/8			T.D. 5320			
Csg. 4 1/2 11.6	Depth 5318			Charge To Vincent Oil Coep			
Tbg. Size	Depth			Street			
Tool	Depth			City State			
Cement Left in Csg. 10.23	Shoe Joint 10.23			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace 82.27			Cement Amount Ordered 225 sx Pro C			
EQUIPMENT				21.6EL 10% SALT 5" SX KOISEAL			
Pumptrk 8 No.	TS			Common 225			
Bulktrk 15 No.	JAKE			Poz. Mix			
Bulktrk No.				Gel. 4			
Pickup No.				Calcium			
JOB SERVICES & REMARKS				Hulls			
Rat Hole 30 SX				Salt 24			
Mouse Hole 20 SX				Flowseal			
Centralizers 1-3-5-7-9-11				Kol-Seal 1125 #			
Baskets				Mud CLR 48 500 GAL MOD Flush			
D/V or Port Collar				CFL-117 or CD110 CAF-38 CC-1 8 GAL			
Ron H's 4 1/2 11.6" csg set				Sand			
START csg csg on Bottom Hook up to csg				Handling 253			
Break circ Drp Ball circ 1 hr				Mileage 50			
START Pumping Preflushes 5 Bbls H ₂ O 12 Bbls MF				4 1/2 FLOAT EQUIPMENT			
5 Bbls H ₂ O				Guide Shoe 1 EA			
Plug R. M HOLES 50 SX				Centralizer 6 EA			
START Mix: Pump 175 x Pro C y csg				Baskets			
SHOT DOWN Wash ptk & Release 4 1/2 TR Plug				AFU Inserts 1 EA			
START DISD 2% KCL				Float Shoe TOP Rubber Plug 1 EA			
LIFT PSI 69 out 700'				Latch Down			
Plug down 82.27 1000'				SERVICE Sps			
PSI up 1500'				LMV 50			
RELEASE: HELD 1/4 BBL BACK				Pumptrk Charge Longstring			
Thank you				Mileage 100			
PLEASE CALL AGAIN				Tax			
TO GO TS JAKE				Discount			
X Signature [Signature]				Total Charge			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
200 W Douglas Ave #725
Wichita, KS 67202
ATTN: Tom Dudgeon

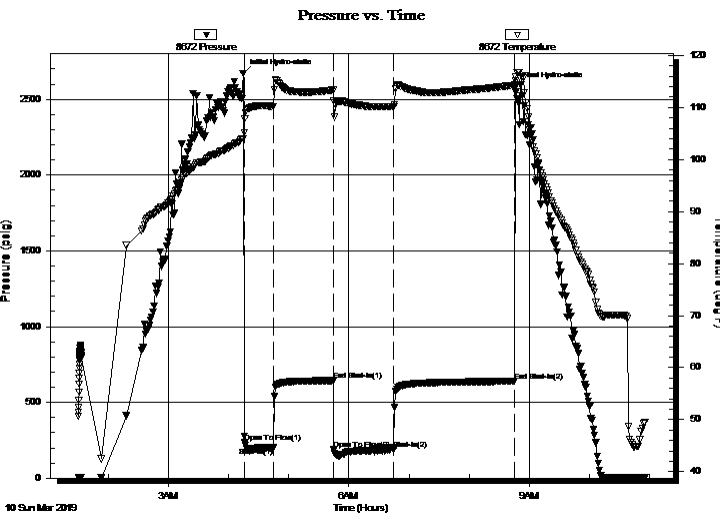
5-29S-22W Ford
Imel 5-5
Job Ticket: 64954 **DST#: 1**
Test Start: 2019.03.10 @ 01:30:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:16:02
Time Test Ended: 10:55:47
Interval: **5200.00 ft (KB) To 5246.00 ft (KB) (TVD)**
Total Depth: 5246.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2516.00 ft (KB)
2504.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 Inside
Press@RunDepth: 188.97 psig @ 5201.00 ft (KB) Capacity: psig
Start Date: 2019.03.10 End Date: 2019.03.10 Last Calib.: 2019.03.10
Start Time: 01:30:01 End Time: 10:55:47 Time On Btm: 2019.03.10 @ 04:14:17
Time Off Btm: 2019.03.10 @ 08:46:17

TEST COMMENT: IF: Strong Blow , BOB in 1 minute, GTS in 9 minutesm Gauged & Caught Sample
IS: No Blow Back
FF: Strong Blow , Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2671.43	103.95	Initial Hydro-static
2	234.69	107.81	Open To Flow (1)
31	201.29	110.17	Shut-In(1)
91	643.42	113.34	End Shut-In(1)
91	188.78	111.27	Open To Flow (2)
151	188.97	110.19	Shut-In(2)
272	639.93	114.31	End Shut-In(2)
272	2581.72	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4982 GIP	0.00
63.00	GCM 30%G 70%M	0.88
146.00	GOCM 20%G 10%O 70%M	2.05

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	43.00	387.20
Last Gas Rate	0.50	43.00	387.20
Max. Gas Rate	0.50	45.00	400.69



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

5-29S-22W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Imel 5-5

Job Ticket: 64954

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2019.03.10 @ 01:30:00

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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4982 GIP	0.000
63.00	GCM 30%G 70%M	0.884
146.00	GOCM 20%G 10%O 70%M	2.048

Total Length: 209.00 ft Total Volume: 2.932 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

5-29S-22W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Imel 5-5

Job Ticket: 64954

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2019.03.10 @ 01:30:00

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.50	43.00	387.20
1	20	0.50	44.00	393.95
1	30	0.50	45.00	400.69
2	10	0.50	34.00	326.49
2	20	0.50	40.00	366.97
2	30	0.50	41.00	373.71
2	40	0.50	42.00	380.46
2	50	0.50	43.00	387.20
2	60	0.50	43.00	387.20

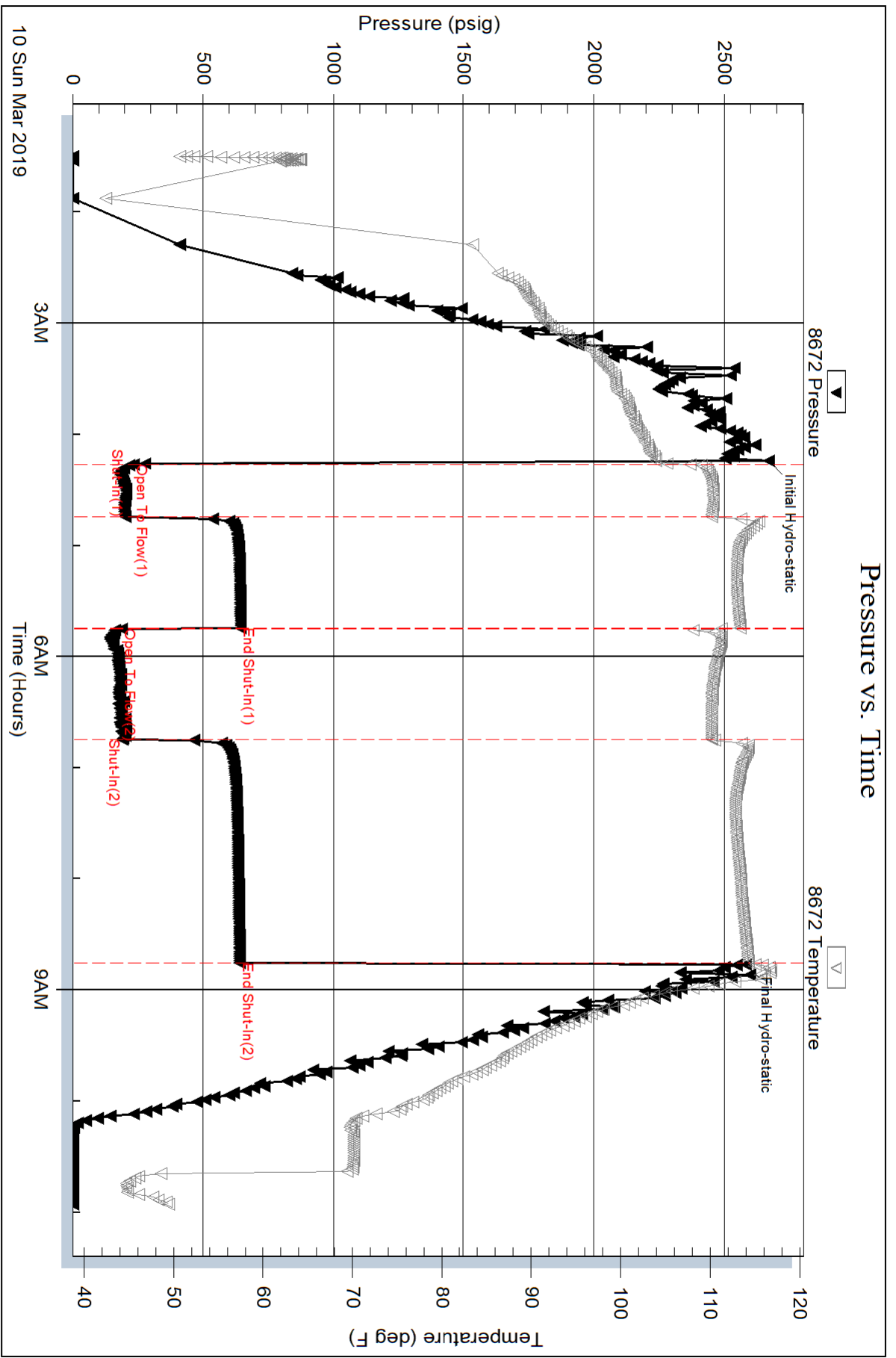
Serial #: 8672

Inside

Vincent Oil Corporation

Inel 5-5

DST Test Number: 1

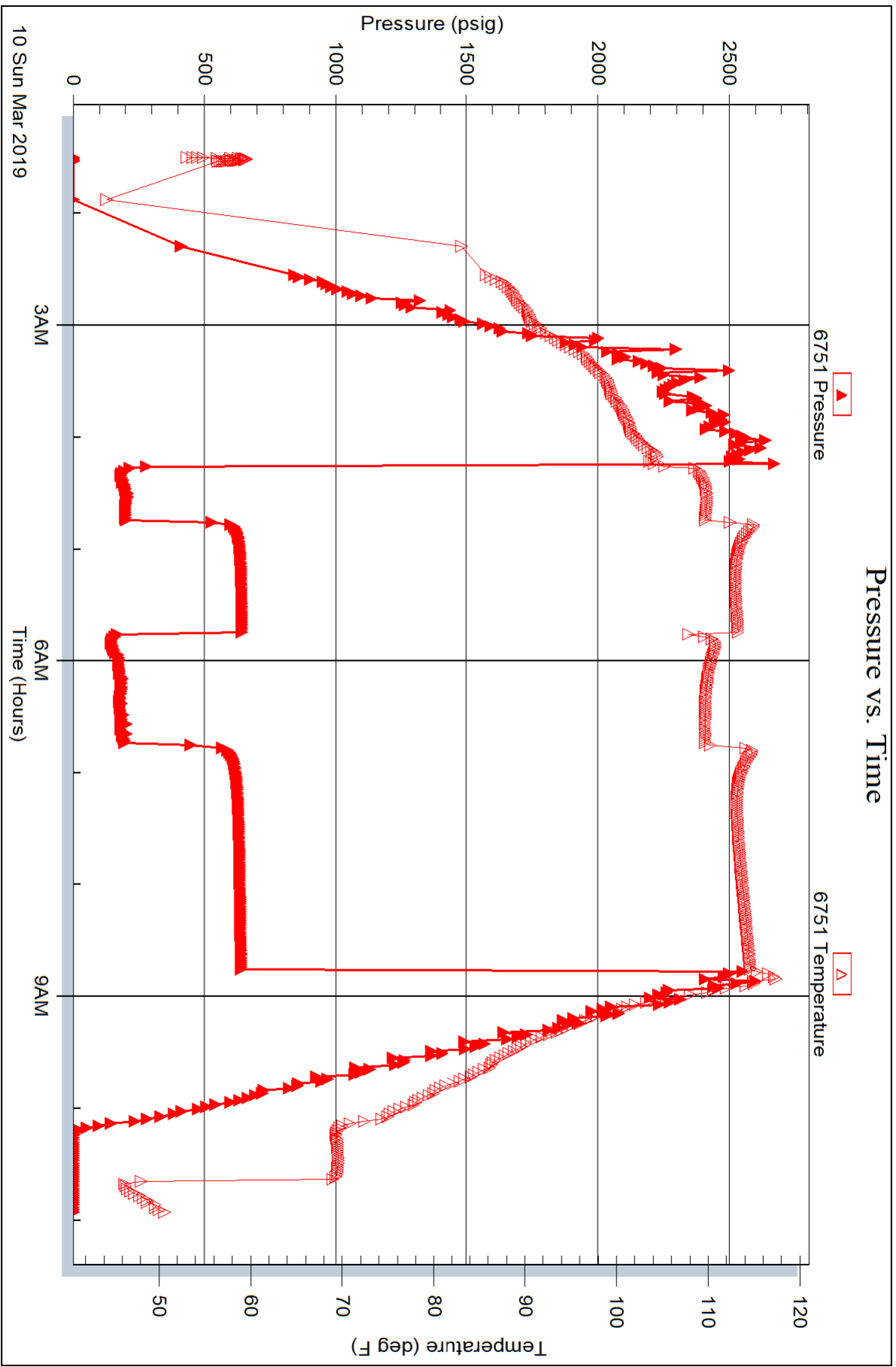


Serial #: 6751

Outside Vincent Oil Corporation

Inel 5-5

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 200 W Douglas Ave #725
 Wichita, KS 67202
 ATTN: Tom Dudgeon

5-29S-22W Ford
Imel 5-5
 Job Ticket: 64955 **DST#: 2**
 Test Start: 2019.03.10 @ 21:33:00

GENERAL INFORMATION:

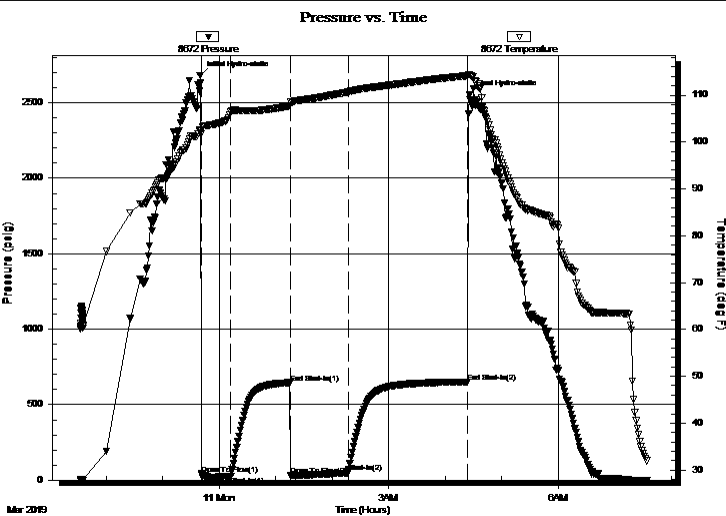
Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:41:02
 Time Test Ended: 07:34:47
 Interval: **5246.00 ft (KB) To 5266.00 ft (KB) (TVD)**
 Total Depth: 5266.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2516.00 ft (KB)
 2504.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8672

Inside

Press@RunDepth: 51.75 psig @ 5247.00 ft (KB) Capacity: psig
 Start Date: 2019.03.10 End Date: 2019.03.11 Last Calib.: 2019.03.11
 Start Time: 21:33:01 End Time: 07:34:47 Time On Btm: 2019.03.10 @ 23:39:47
 Time Off Btm: 2019.03.11 @ 04:25:32

TEST COMMENT: IF: Fair Blow , BOB in 6 minutes, Built to 55"
 IS: No Blow Back
 FF: Strong Blow , BOB Immediate, Built to 143"
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2681.63	102.59	Initial Hydro-static
2	40.43	101.73	Open To Flow (1)
33	25.57	106.37	Shut-In(1)
96	645.69	107.71	End Shut-In(1)
97	29.77	108.59	Open To Flow (2)
158	51.75	110.68	Shut-In(2)
284	650.60	114.17	End Shut-In(2)
286	2550.48	114.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	2887 GIP	0.00
7.00	SGCO 10%G 90%O	0.10
63.00	GOWCM 10%G 28%O 30%W 32%M	0.88

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

5-29S-22W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Imel 5-5

Job Ticket: 64955

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2019.03.10 @ 21:33:00

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:

62000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2887 GIP	0.000
7.00	SGCO 10%G 90%O	0.098
63.00	GOWCM 10%G 28%O 30%W 32%M	0.884

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

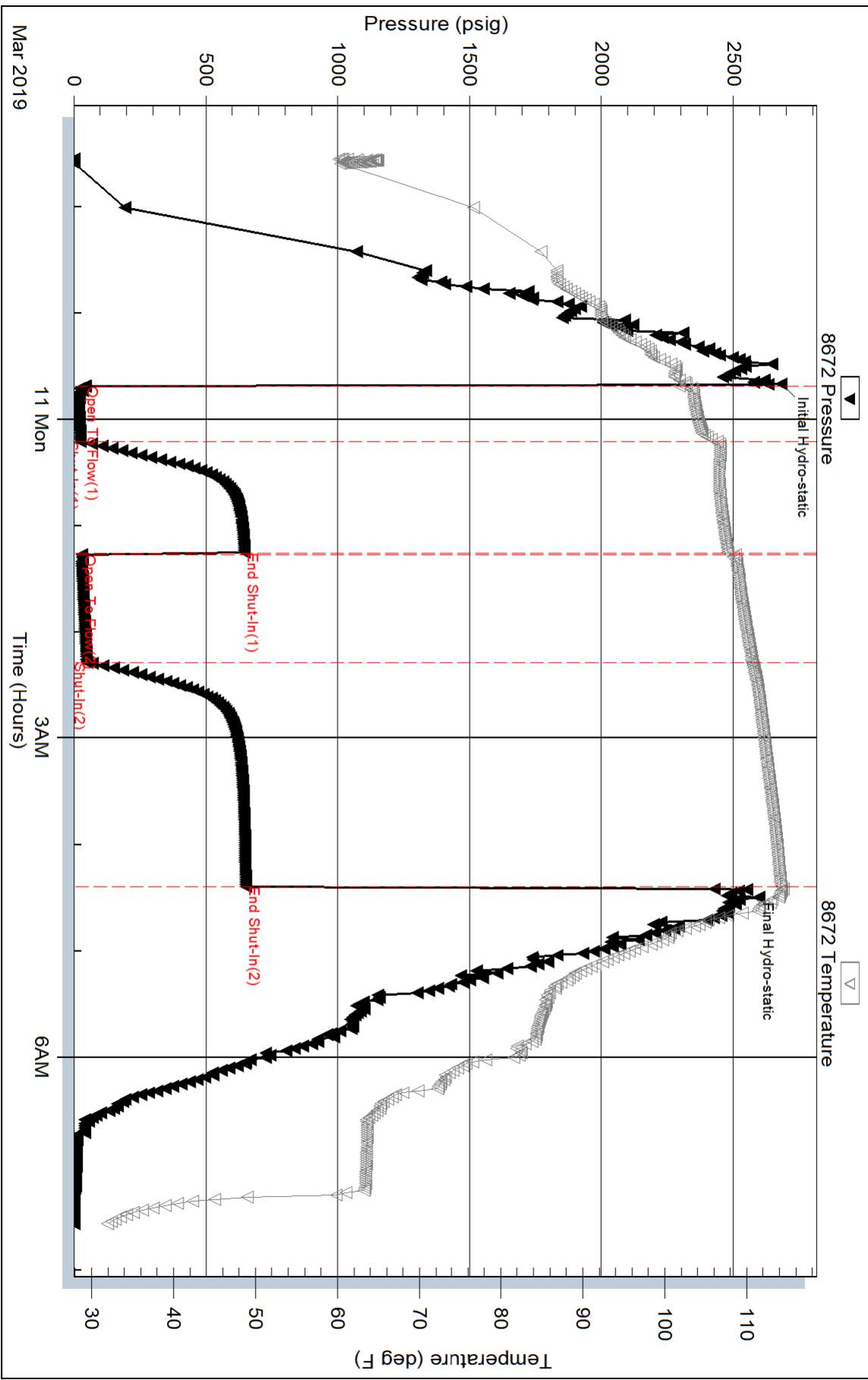
Laboratory Name:

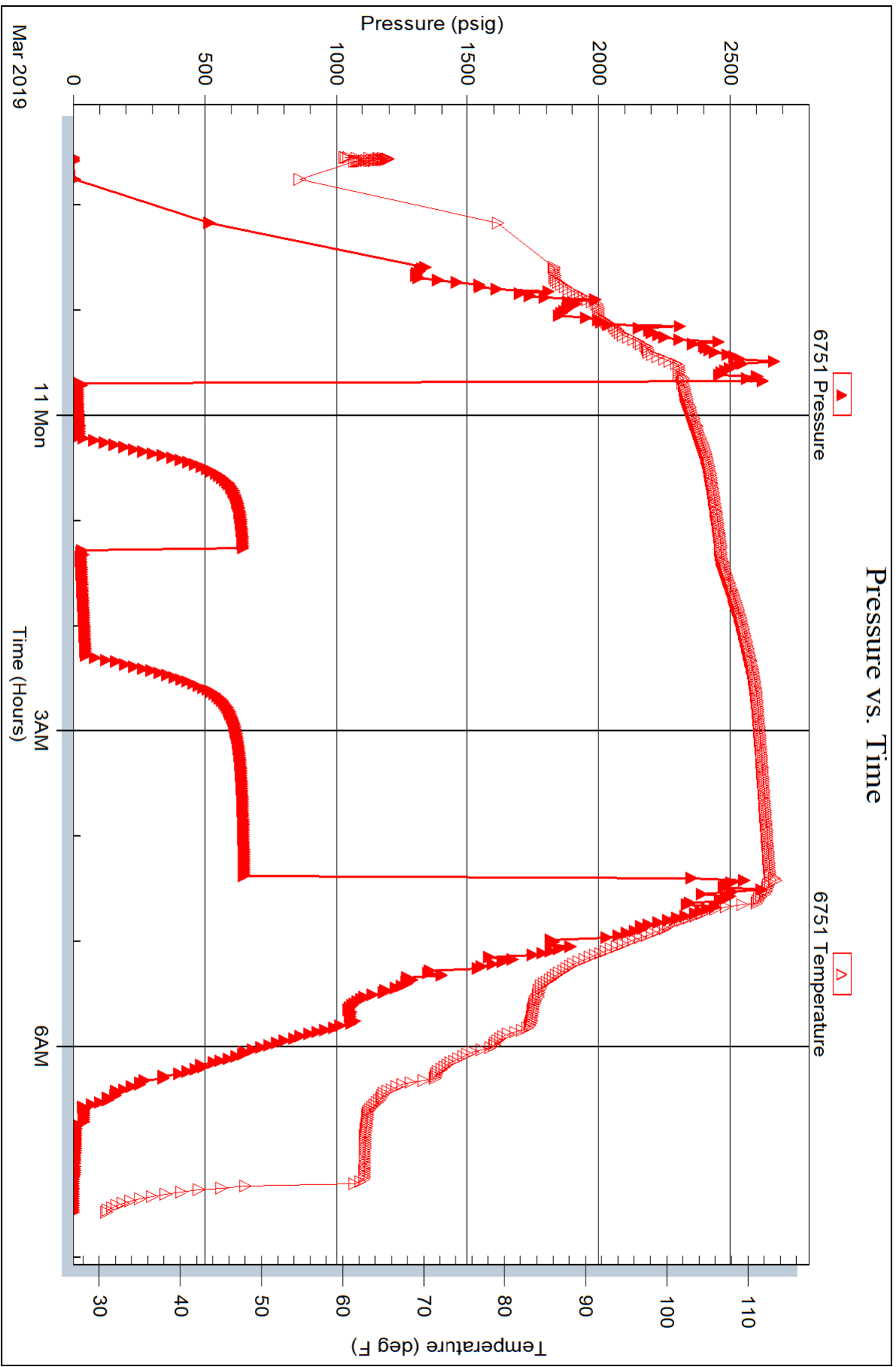
Laboratory Location:

Recovery Comments: Gravity was 36.4 @ 42 degrees

RW was .18 @ 48 degrees

Pressure vs. Time





Well Name: Imel 5-5
 Surface Location:
 Bottom Location:
 API:
 License Number:
 Spud Date: 2/27/2019 Time: 11:24 AM
 Region:
 Drilling Completed: Time:
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 0.00ft
 K.B. Elevation: 0.00ft
 Logged Interval: 0.00ft To: 0.00ft
 Total Depth: 0.00ft
 Formation:
 Drilling Fluid Type:

OPERATOR

Company:
 Address:

 Contact Geologist:
 Contact Phone Nbr:
 Well Name: Imel 5-5
 Location:
 API:
 Pool: Developmental Field:
 State: Country:

CONTRACTOR

Contractor:
 Rig #:
 Rig Type:
 Spud Date: 2/27/2019 Time: 11:24 AM
 TD Date: Time:
 Rig Release: Time:

LOGGED BY

Company:
 Address:

 Phone Nbr:
 Logged By: Geologist Name:

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 0
 Latitude: 0
 N/S Co-ord:
 E/W Co-ord:

ELEVATIONS

K.B. Elevation: 0.00ft Ground Elevation: 0.00ft
 K.B. to Ground: 0.00ft

TOTAL DEPTH

Measurement Type: Measurement Depth: TVD:
 0.00 0.00

DRILLING FLUID SUMMARY

Type Date From Depth To Depth

POROSITY TYPE

- × Intercrystalline
- ϕ Interoolitic
- V Vuggy
- P Pinpoint
- ∩ Moldic
- O Organic
- F Fracture
- e Earthy
- ▣ Fenestral

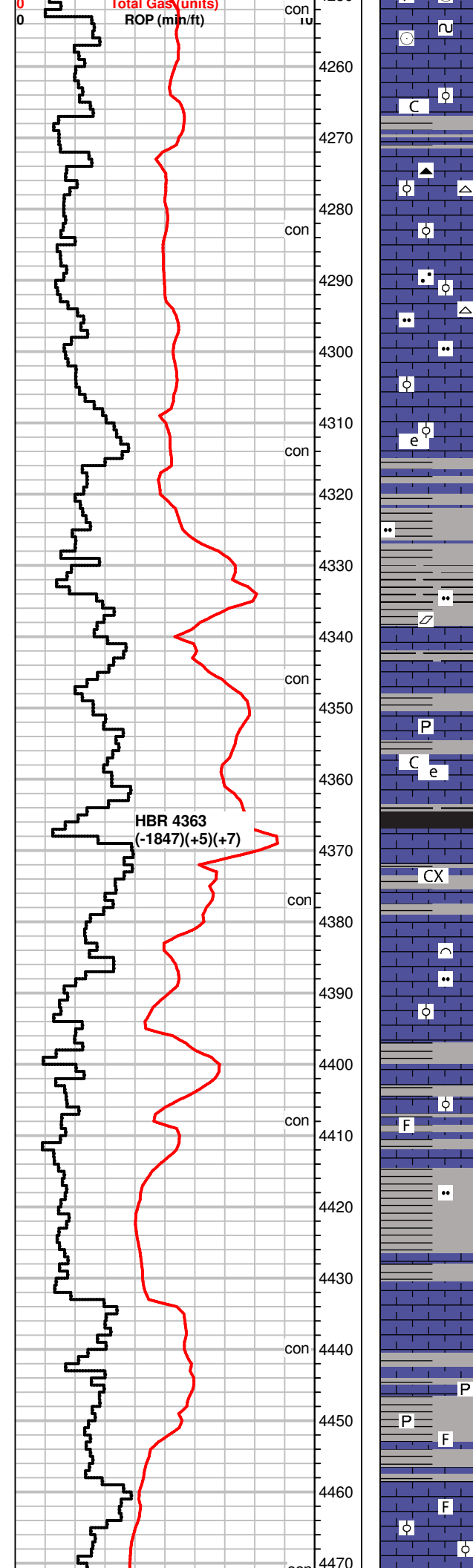
OIL SHOWS

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

INTERVALS

- Core
- DST

Curve Track #01	Depth Intervals	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
<p>Total Gas (units) —</p> <p>ROP (min/ft) —</p> <p style="text-align: right;">1:240 Imperial</p> <p style="text-align: right;">Total Gas (units) 200</p> <p style="text-align: right;">ROP (min/ft) 10</p>	<p>Cored Interval</p> <p>DST Interval</p>				<p>GEO ON LOCATION @ 5:30 PM 3/6/2019</p> <p>REFERENCE WELLS</p> <p>A - IMEL 3-5 1555' FSL & 1642' FWL 5-29S-22W</p> <p>B - IMEL 2-5A 2340' FNL & 1080' FWL 5-29S-22W</p>	
	<p>4110</p> <p>4120</p> <p>4130</p> <p>4140</p> <p>4150</p> <p>4160</p> <p>4170</p> <p>4180</p> <p>4190</p> <p>4200</p> <p>4210</p> <p>4220</p> <p>4230</p> <p>4240</p> <p>4250</p>	<p>con</p> <p>con</p> <p>con</p>	<p>con</p> <p>con</p> <p>con</p>	<p>MS-WS, crm to lt. tan, firm to hard, brittle pcs, fn to m-gr, oolitic/sandy pcs., some chalky, scatt SH, gray, green</p> <p>MS, A.A., some vf-xln, dense, vitreous looking pcs, most chalky,</p>		



crinoids, fossil frgmnts, glauc

MS, crm to gray, f-xln to chalky/earthy, some f to m-gr oolitic/fossil frgmt pcs, NS, Chert, wht, gray(rare), scatt fossils

MS-WS, crm to off wht, f to m-gr oolitic A.A, sandy in pt., silty pcs scatt, Chert, wht, SH, silty, green to gray

MS-WS(scatt), tan to crm, f-xln, gritty to fossilif., earthy, some dense, rare pyrite, NS

SH, blk, carbonaceous, gray, greenish gray, silty pcs
MS, crm to tan, f-xln, some massive, calcite, firm to hard, NS

SH, gray, blk
MS, tan to off wht, crm, chalky to f-xln, some earthy, rare pyrite, NS

SH, blk, carb, gray, platy pcs

MS, tan to crm, vf-xln to massive, dense, hard, NS

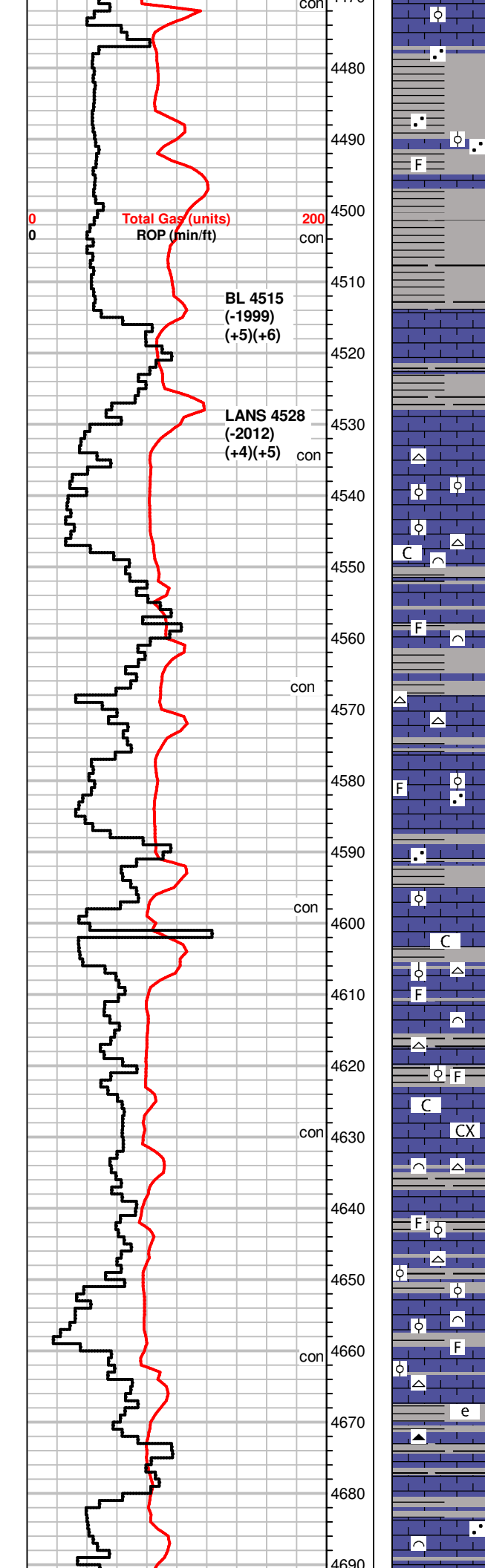
MS, crm to lt. gray, f-xln, hard, gritty pcs, scatt fossils, shaly pcs throughout
SH, light grays to blk

MS, crm to lt. tan, f-xln to mic-xln, massive, dense, fossils scatt., silty pcs, NS
SH, blk, to gray, red(sandy argill.)

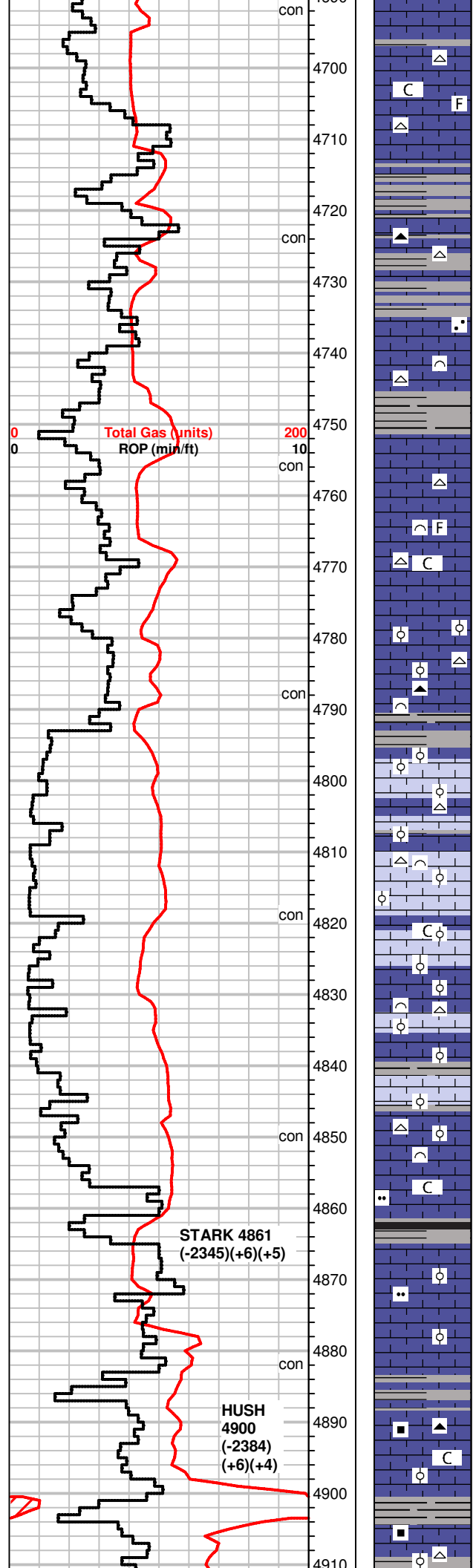
Scatt SH, grays, silty
MS, crm to tan, f-xln, silty

SH, blk, gray, silty, red, pyrite
MS, crm, earthy to f-gr. oolitic/sandy pcs, pyrite, mottled pcs scatt, soft to scatt dense pcs, fossilif., calcite, NS

MS, crm, A.A, earthy to vf-gr oolitic, some sandy pcs, br, to gray, f to m-gr oolitic mottle pcs scatt, SH, grays



mfg oolitic mottled pcs scatt., SH, grays
 SH, green, gray, blk(scatt pcs)
 MS, gray to brn, crm, AA to vf-xln, massive, dense, some fossils,
 sandy in pt., NS
 F
 SH, grays, green, blk
 SH, gray to green
 MS-WS, brn to tan, f-xln, dense, fossils, hard, NS
 SH, blk, to gray, green
 MS, crm to tan, f-xln, hard, chalky pcs, scatt fossils, NS
 C
 MS, crm to lt.gray, vf-xln to earthy, massive pcs, dense to brittle, scatt
 chalky pcs, fossils, some m-gr oolitic, tite, NS, Chert, wht
 some SH, grays, sandy in pt., green
 F
 MS, crm to tan, massive to earthy, firm to hard, scatt brach frgmts,
 some chalky pcs, dull fluor, NS, Chert, wht,
 lesser SH, green
 F
 MS, crm to tan, f-gr, gritty, fossils, WS, brn to gray, m-gr sandy to
 fossilif., some dense, most pcs firm, NS
 C
 MS, brn to crm, gray, vf-xln, massive to gritty txt, fossilif., hard/firm,
 brittle pcs, chalky in pt., some SH, grays, green, blk
 F
 MS, off wht to crm, f-xln to crip-xln, scatt gritty pcs/fossils, hard to
 firm, inc. in chalky pcs, Chert, wht, fossils
 rare SH, gray/green
 CX
 MS-WS, brn to gray, m-xln, sandy/shaly pcs, gritty in pt., some dense,
 most hard, Chert, wht, tan, fossils
 SH, blk, grays, greenish gray
 F
 MS, crm to tan, f-xln, blk specs in m-xln dense mtrx, most pcs earthy,
 brittle, chalky pcs, Chert, wht, tan, gray, fossils
 SH, gray, brn
 e
 MS, crm to gray, f-xln, most dense, some chalky/soft, fossils, scatt brn
 pcs, m-xln, mottled, fossils, sandy in pt., NS
 SH, grays



MS, crm to lt. brn/gray, f-xln to earthy, firm to dense, scatt massive pcs, gritty in pt., chalky pcs scatt, calcite, rare fossils, Chert, wht, opaque, fossils
scatt SH, green to gray

MS, crm to scatt grays, f-xln to earthy/chalky, most firm to hard, fossil frgmts, Chert, wht, dk. brn
SH, gray

Inc in SH, gray to dk. gray, scatt blk pcs
MS, crm to lt. gray, f-xln to massive, fossilif. in dense calc mtrx, most crm pcs chalky, soft to firm, dull fluor, NS
scatt Chert, opaque, wht, micro oolitic

SH, dk. gray to green, silty
MS, crm to tan, vf-xln to earthy txt, chalky/shaly in pt., fossils scatt, gray to brn pcs, massive, dense, dull fluor, NS
Chert, wht

MS-WS, tan to crm, gray, m-xln to f-xln, chalky in pt., fossilif to oolitic, f-gr ooids in tite calc mtrx, dense, sandy pcs scatt, Chert, gray, wht, fossils
SH, green, gray

SH, grays, platy
MS, crm to tan, f to m-xln, m-gr oolitic in tite calc mtrx, some chalky in pt., Chert, wht, tan, fossilif.,

WS-PS, crm to tan, m-xln, f to m-gr oolitic/fossilif, chalky in pt., brittle, dull fluor, NS

WS-PS, crm to tan, m-gr oolitic, A.A., some brn, massive, dense, dull fluor, NS, Chert, wht
scatt SH, gray to blk

WS, A.A., MS-WS, crm to lt. grn, f-xln, gritty to fossilif., chalky pcs throughout, vf-gr oolitic to sub oolitic, mineral specs, NS

SH, blk, grays, silty to carb.

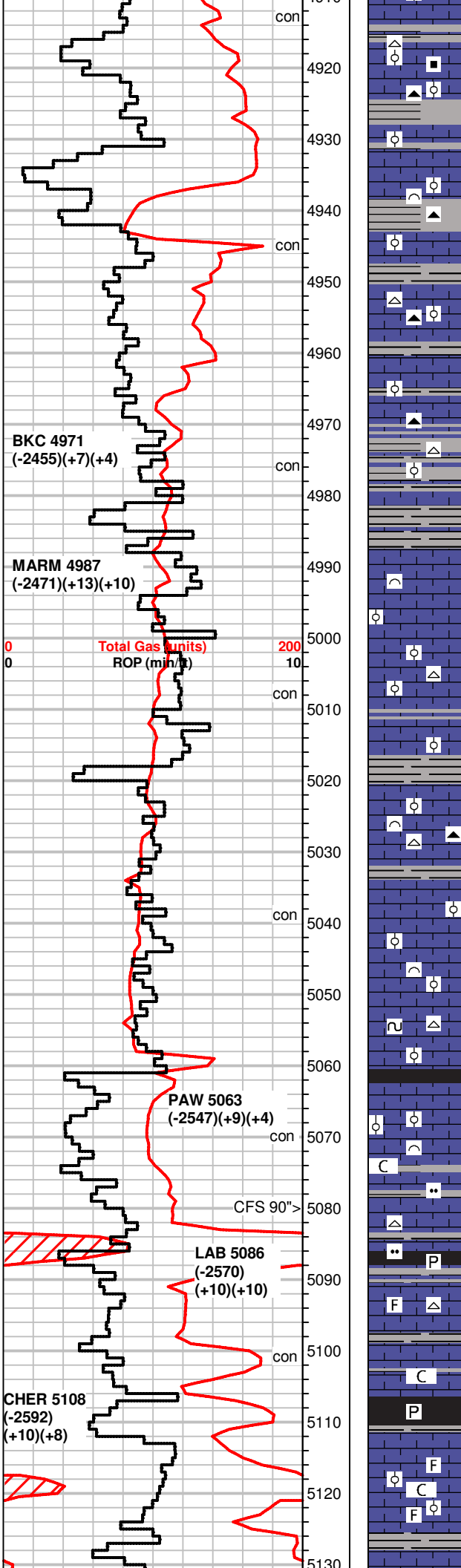
Sh, blk to gray, MS, brn to crm, vf-xln, massive pcs, f-gr oolitic pcs scatt, gritty txt, dense, dull fluor, NS

MS, brn to crm, gray, f-xln to massive txt, dense to soft/chalky pcs, fossils dec., scatt gray SH

influx, MS, brn to crm, gray, vf-xln to earthy, firm to dense, some fossils, rare Chert, brn

SH, dk. gray to gray, silty, red, green
MS, crm to brn, m to f-xln, some chalky, dense, scatt fossils, Chert, brn, tan

MS, scatt WS, gray to brn, vf-xln, dense, some fossils, gritty txt in



MS, scatt WS, gray to brn, vf-xln, dense, some fossils, gritty txt in most pcs, SH, grays silty in pt., Chert, blueish-wht, fossilif.

SH, brn to gray, MS, crm to gray, f-xln some sub oolitic pcs, most earthy, barren, some w/ mineral specs, NS

MS, brn to gray, crm, f-xln to gritty txt, dens to brittle, some pcs chalky/shaly, fossils scatt., Chert, wht, gray, rare dull fluor, NS some SH, blk, brn, grays

MS, crm to tan, A.A., inc in chalky crm pcs, lesser fossils, soft to firm, MS-WS, lt. brn to lt. gray, crm, f-gr oolitic to sub oolitic pcs, most hard, gritty txt in pt., some fossilif/bioclastic, Chert, wht, brn SH, green, grays, brn

Fresh SH, blk to gray, brn, dk. green, sandy to silty, limey MS, crm to brn,dk. gray, f-xln massive to earthy, dense, some shaly pcs, Chert, brn

some SH,blk, brn, green, gray, lesser sandy pcs MS, gray to brn, crm, f-xln, dense, fossils, shaly, calcite veins Chert, brn

SH, gray to blk, silty, MS, brn to gray, rare crm, shaly, dense, fossils, Chert, wht, brn, tan, fossils

MS, crm to tan, gray, f-xln, chalky to shaly, dense, scatt fossils, SH, blk, carb, gray fossils, green

some SH, grays, green MS, crm to tan, f-xln chalky to fossilif., some shaly brn to gray pcs

MS, brn to tan, gray, f-xl to massive txt, some chalky/shaly pcs (decreasing amt), brittle to soft, some dense, scatt fossils, dull fluor, NS,

MS, crm to gray, f-xln, chalky, some dense, silty to sandy pcs, NS Sh, grays silty

SH, dk. gray/blk, to gray, sandy to limey pcs, MS, crm to gray, m-xln, some pcs dense, fossils, mottled, Chert, wht, gray, fossils,

MS, crm to off wht, chalky to earthy, soft to firm, f-xln, dense pcs, rare dull fluor, NS, Chert, opaque, fossils, SH, grays, green, silty

influx MS-WS, crm to tan, f to m-xln, sub oolitic to chalky pcs, firm to dense, Chert, wht, dec. in SH, gray, green

rare SH, blk, green, carb., MS-WS, crm to tan, f-xln, massive, dense, brittle to chalky/soft pcs, fossils, some calcite Chert, wht, opaque, NS

MS, crm to tan, vf-xln, massive, A.A., lesser fossils, SH, blk, gray, green,

MS-WS, crm to off wht, f-xln to massive, fossils/sub oolitic pcs, some pcs chalky, rare glauc. no odor, mineral fluor

MS, crm to tan, lt. gray, f-xln to chalky, scatt fossils, gritty in pt. firm to hard, rare fluor, no odor, no cut

MS, some WS, crm to brn, f-xln, massive to chalky pcs, silty to shaly in pt. fossils, NS, Chert, opaque, fossilif. SH, blk to gray, gassy, carb., pyrite

MS-WS, crm to tan, brn, f-xln, massive to chalky, fossilif., some dense pcs, firm,

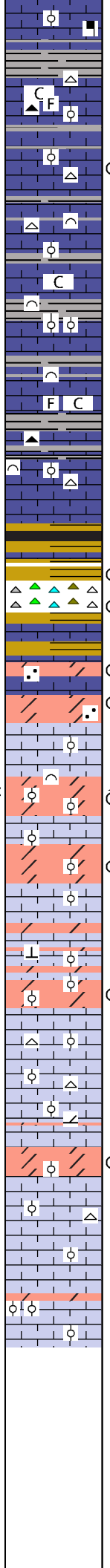
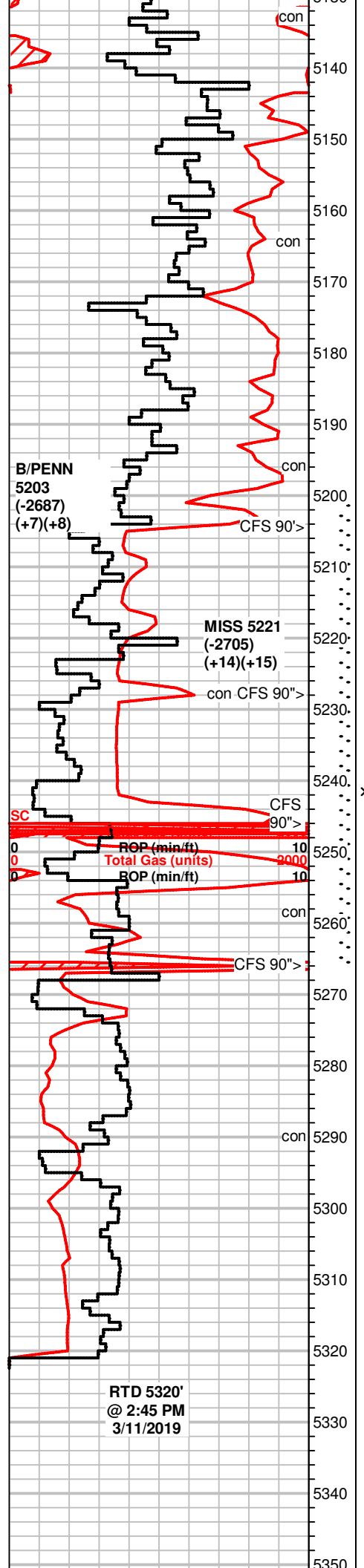
influx, SH, blk to dk. gray, carb. gassy, pyrite flakes MS, crm to lt. gray, chalky to f-xln, dense to firm, fossils, NS

MS, crm to lt. gray, chalky to f-xln, dense pcs, some firm, fossils, NS

MS-WS, crm to lt. gray, f-xln/gritty txt, some earthy pcs, firm to dense, f-gr oolitic to fossilif. SH, blk to grays

MS-WS, brn to tan, crm, f-xln, dense, mottled, pcs fossilif, scatt

DST #1 5200-5246
 30-60-60-120
 SB BOB/1min GTS/9min
 GA 1/2" choke
 387.203 MCF/10"



MS-WS, brn to tan, crm, f-xln, dense, mottled pcs, fossilif., scatt chaly, mineral specs in pcs, dull fluor, NS, scatt SH, blk to gray, green

SH, blk to gray, green, carb

MS-WS, brn to tan, mottled, f-xln, dense to chaly, fossilif., NS, Chert, brn to wht, fossils

MS-WS, A.A., crm, f-xln to chaly, dense, fossils, some barren, 1 pc with spotty stn dry Chert, wht, tan, some SH, blk to gray, brn

MS, scatt WS, crm to tan, lesser brn, mostly chaly, firm, fossils, scatt NS, Chert, wht

SH, gray to blk

SH, blk to gray, green, pyrite

WS-MS, crm to tan, f to m-xln, sub oolitic to fossilif., chaly pcs, most dense, NS

MS, gray to tan/crm, mic-xln to f-xln, dense/massive txt to chaly, some fossilif. pcs, dull fluor NS, some SH, blk to gray

MS, brn/tan to gray, f-xln, massive, dense to brittle, sub oolitic to fossilif., pyrite, chaly pcs scatt, Chert, brn

SH, blk to gray, platy, green, silty, pyrite

MS, brn to crm, massive to chaly, dense to soft, scatt fossils, Chert, wht, NS

SH, varicolored, MS-WS, crm to tan, f-xln, dense to chaly, some sub oolitic

Chert, varicolored, fresh to scatt wthrd pcs, most tan to off wht, yellowish, opaque, fossilif pcs, block in pt. **some w/ bri fluor, spty stn, inst strmg cut, vuggy por. spty stn dry**

MS-WS, crm to tan, f-xln dense to sub oolitic Chert, bone wht to off wht, most fresh, some wthrd, green, gray, fossils, SH, vari colored, sandy to silty, rare Dolo., crm to tan, vf-xln, sandy txt, firm, **bri. fluor, slow milky cut, good odor in bag,**

Dolo, crm to tan, brn, vf-xln, sandy txt, firm to hard, brittle, **good odor, bright fluor, live oil, bleeding gas, inst. cut, spty to even stn dry,** Chert, A.A. MS-WS, crm to brn, f-xln, fossilif., NS

Dolo, brn to crm, f to m-xln sucrosic txt m-gr oolitic to fossilif pcs, firm to hard/brittle, **good odor, bright fluor, slow milky cut, lt. spty to even stn dry, fair int xln por.**

Dolo, brn to tan, f-xln to m-xln, sucrosic/gritty txt to med & co. gr oolitic/fossilif. pcs, **good odor, live oil droplets, lt spty to dk. spty stn, some in vugs, inst cut to milky cut**

WS-PS, crm to off wht, m-gr oolitic in chaly mtrx, some pcs dense, dull fluor, NS

MS-WS, crm to off wht, chaly to f-xln, m-gr oolitic pcs

Dolo, crm to lt. gray, vf-xln gritty to sucrosic txt., **scatt bri fluor, faint odor, slow milky cut, some stn,**

MS-WS/PS, crm to off wht, tan, f-xln to chaly, some pcs dense/brittle, m-gr oolitic to fossilif., Chert, wht

MS-WS, crm to off wht, f-xln to chaly, m-gr oolitic, dull fluor, NS

Dolo, brn to tan, vf-xln, gritty to sucrosic txt, **rare bri fluor, odor in bag, slow milky cut,**

MS-WS, crm to brn/tan, f-xln to chaly, soft to firm, some dense, oolitic, dull fluor, NS

PS-WS, brn to crm, m-gr oolitic, ringed ooids in chaly mtrx, dull fluor, NS scatt Dolo, crm to brn, vf-xln, sucrosic txt, dull fluor, NS

393,948 MCF/20",
400,694 MCF/30"
NBB
SB BOB/GTS immed
GA 1/2" choke
326,441 MCF/10"
366,966 MCF/20"
373,711 MCF/30"
380,458 MCF/40"
387,203 MCF/50"
387,203 MCF/60"
NBB
Rec: 4982' GIP, 146'
GOCM(20g,10o,73m)
63' GCM(30g,70m)
IH 2671#
IF234-201#
ISIP 643#
FF 189-189#
FSIP 640#
FH 2582#
Temp 117°F

Samples washed red from 5204-5246

+50 UGK, 20 UGK recycle

+110 UGK w/ recycle

+2100 UGK, w/ recycle

DST #2 5246-5266
30-60-60-120
SB BOB/6"
NBB
SB BOB/immed
NBB
Rec: 2887' GIP
7' SGCO(10g,90o)
63' GOWCM
(10g,28o,30w,32m)
IH 2681#
IF 40-25#
ISIP 646#
FF 30-52#
FSIP 651#
FH 2550#
Temp 114°F
API Rw .18 @ 48°F
CL 62,000ppm
Gravity 38.2*

RTD 5320'
@ 2:45 PM
3/11/2019

5359

5360

5370

5380

5390



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