

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 \_\_\_\_\_ 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](mailto: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 2-5A
Doc ID	1448036

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 2-5A
Doc ID	1448036

Tops

Name	Top	Datum
Heebner Shale	4370	(-1854)
Brown Limestone	4520	(-2004)
Lansing	4533	(-2017)
Stark Shale	4866	(-2350)
Base Kansas City	4975	(-2459)
Pawnee	5067	(-2551)
Cherokee Shale	5116	(-2600)
Base Penn Limestone	5211	(-2695)
Mississippian	5234	(-2718)
RTD	5380	(-2864)
LTD	5386	(-2870)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 2-5A
Doc ID	1448036

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	5236	5255			Perf 5236' to 5255', run tubing & packer, Acidize with 500 Gal 15% MCA
					swab 3 hrs at 16 bbl/hr (38 to 50% Oil), SDFN
					FL at 4450, swab down (90% Oil), treat with 20% NFE, 140 gal parafin solvent & 20 bbls KCL water
					Rigged up to swab and swabbed 16 bbls /hr with oil cut increasing to 85% Oil, recov. 77.7 bbls; SDFN

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	IMEL 2-5A
Doc ID	1448036

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
					FL at 4300', Swabbed down (99% Oil); swabbed 3 hrs at 16 bbls/hr (95% Oil), released packer, pulled tubing and paker, SDFN
					Ran tubing, ran DHP & rods , set surface equip. turned to prod 1/23/2019



# QUALITY WELL SERVICE, INC.

6963

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	
10-30-18	5	29S	22W	FORO	KI			
Lease	Imel A	Well No.	2-5	Location				Kingsdown KI 2 W E into
Contractor	DOLCE Orlg 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	SURFACE			Charge To				Vincent Oil Coop
Hole Size	12 1/4	T.D.	690'	Depth				639'
Csg.	3 5/8 23'	Depth		Street				
Tbg. Size	Depth		City					State
Tool	Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	Shoe Joint	42.19	Cement Amount Ordered					1254 MOC 3% CC 1/4 CF
Meas Line	Displace	41.46	EQUIPMENT					150 & Common 2 1/2 TEL 3 1/2 CC
Pumptrk	9 No.	75	Common					150 SC
Bulktrk	7 No.	JALKE	Poz. Mix					125 SC MOC
Bulktrk	12 No.		Gel.					11 SC
Pickup	No.	TOOL	Calcium					1056
JOB SERVICES & REMARKS			Hulls					
Rat Hole			Salt					
Mouse Hole			Flowseal					1/2 25
Centralizers			Kol-Seal					
Baskets			Mud CLR 48					
D/V or Port Collar			CFL-117 or CD110 CAF 38					
Run 16 1/2 3 5/8 23' csg set 639'			Sand					
csg on Bottom Hook up to csg			Handling					296
Break circ w/21g			Mileage					60/8500
START Pumping H <sub>2</sub> O 15 Bbls			FLOAT EQUIPMENT					
START mix: Bay 125 & moc			Guide Shoe					3 5/8 Baffle 1
3 1/2 CC 1/4 CF			Centralizer					3 5/8 Warden Plug 1
START mix & Pump 150 & Common			Baskets					
2 1/2 TEL 3 1/2 CC			AFU Inserts					
Silot down Release 3 5/8 Warden Plug			Float Shoe					
START DISP			Latch Down					
Plug down 41.46 Bbl out			SERVICE SUPERVISOR					
522" close valve on csg.			LMD					60
From circ thru to 3 circ cut to pit			Pumptrk Charge					Surface
Thank you please call AGAIN			Mileage					120
TOOO TJ JALKE			Tax					
Signature Mike Anthony			Discount					
			Total Charge					



# QUALITY WELL SERVICE, INC.

6971

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
11-9-13	5	29S	22W	Ford	Ks		
Lease IMEL A		Well No. 2-5		Location Kingsdown, Lk. 2 N E into			
Contractor Duke Dalg Rig #1				Owner			
Type Job 4 1/2 L.S.				To Quality Well Service, Inc.			
Hole Size 7 7/8				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. 4 1/2		T.D. 5330'		Charge To VINCENT OIL CORP			
Tbg. Size		Depth 5376'		Street			
Tool		Depth		City		State	
Cement Left in Csg. 1251		Shoe Joint 1251		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 9313		Cement Amount Ordered 225 sq PEOC			
<b>EQUIPMENT</b>				2 1/2 GAL 10% SALT 5 1/2 GAL KASEAL			
Pumptrk 8	No.	TS		Common 225 sq			
Bulktrk 10	No.	JAKE		Poz. Mix			
Bulktrk	No.			Gel. 4 sq			
Pickup	No.			Calcium			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole 30 sq				Salt 25 sq			
Mouse Hole 22 sq				Flowseal			
Centralizers 1-3-5-7-9-11				Kol-Seal 1125'			
Baskets				Mud CLR 48 500 gal			
D/V or Port Collar				CFL-117 or CD110 CAF 38 CC-1 8 gal			
Run 122 ft's 4 1/2 11 1/2 csg sel d 5376'				Sand			
1/2 csg on Bottom TAG DROP BALL				Handling 254			
Hook up to Csg: BREAK CIRC W/ RIG 1 hr				Mileage 60			
START Pumping 5 Blk H <sub>2</sub> O 12 Blk MF 5 Blk H <sub>2</sub> O				<b>4 1/2 FLOAT EQUIPMENT</b>			
START Plug R-M Hole 50sq				Guide Shoe 1 EA			
START mix Pump 175 sq Oxid csg				Centralizer 6 EA			
START mix Wash port & Lines Release SWTC PL				Baskets			
START also 2 1/2 RCL				AFU Inserts 1 EA			
Lift PSI 650' 70 1/2 out				Float Shoe 1 EA TOP R-M HOLE PLUG			
Plug down 1400' 13313 out 11:00 AM				Latch Down			
Release PSI HELD 1/2 Btl Back				SERVICE SUPERVISOR			
GOOD CIRC thru JOB				LMV 60			
Thank you				Pumptrk Charge Longstring			
PLEASE CALL ME IN				Mileage 120			
TODD TS JAKE							
Signature [Signature]							
				Tax			
				Discount			
				Total Charge			







**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 2-5A**

Job Ticket: 63841

**DST#: 1**

ATTN: Tom Dudgeon

Test Start: 2018.11.06 @ 03:13:00

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	295 GIP	0.000
20.00	SGCM 2%G 98%M	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

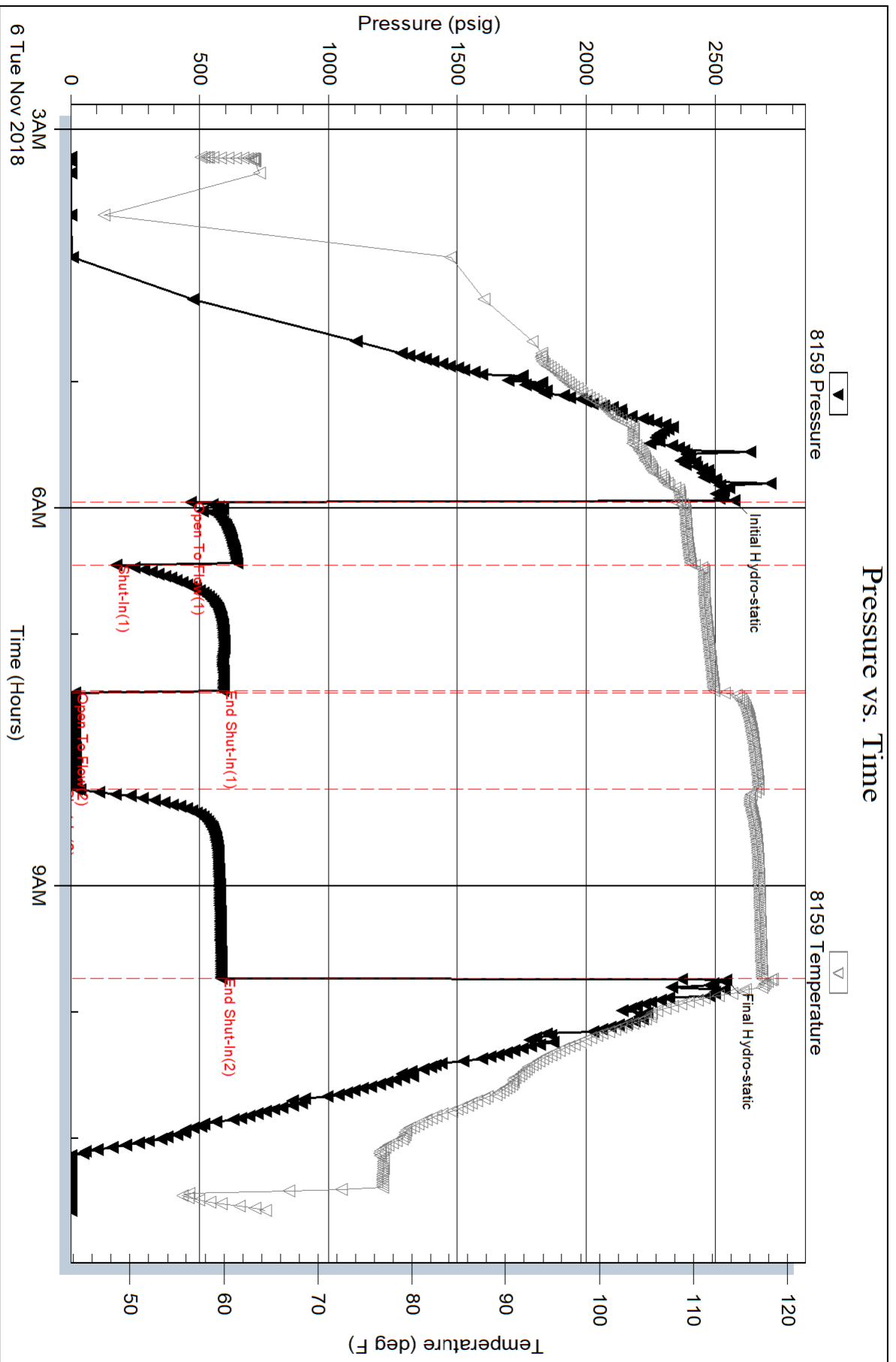
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time

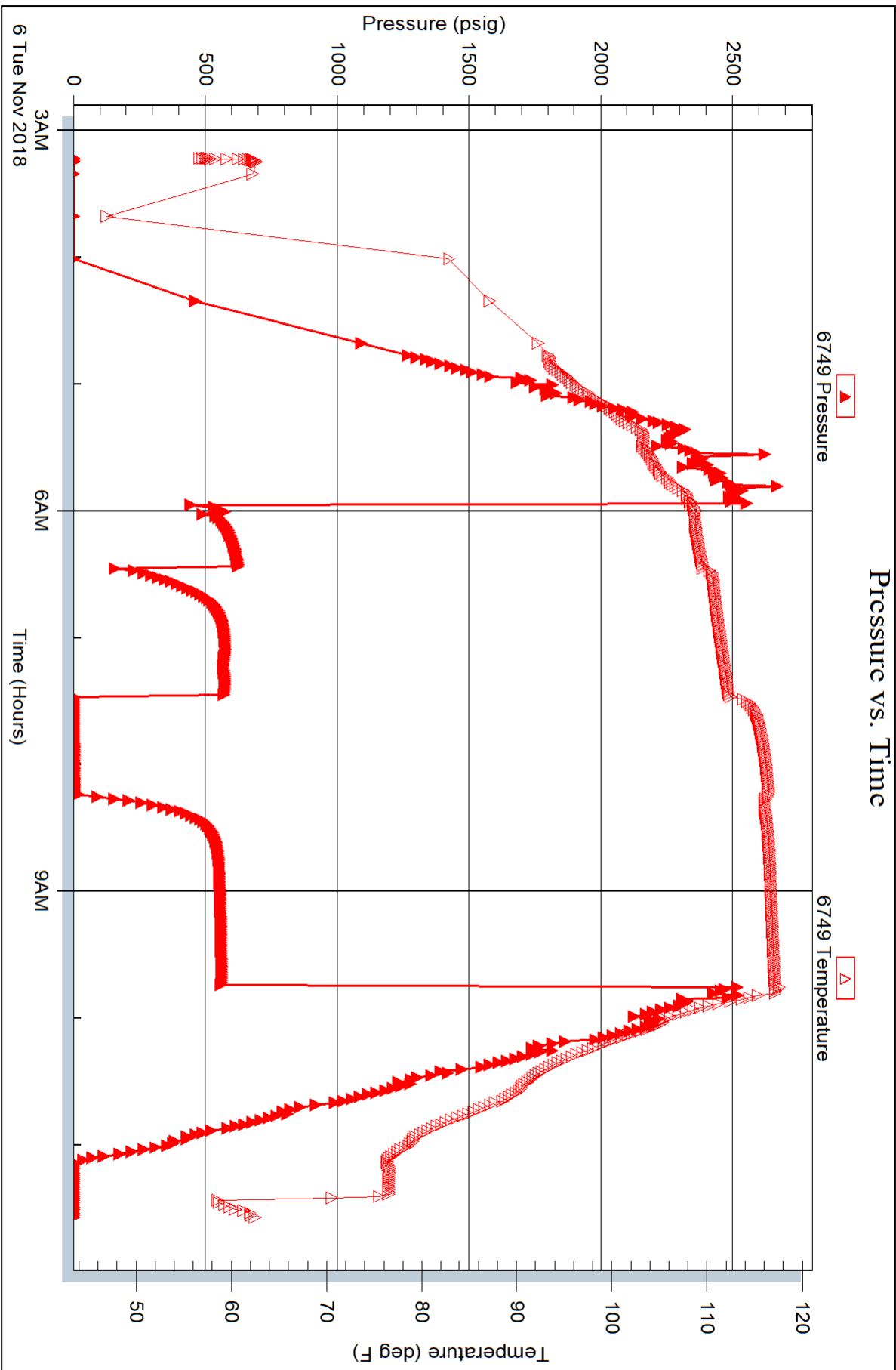


Serial #: 6749

Outside Vincent Oil Corporation

Inel 2-5A

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

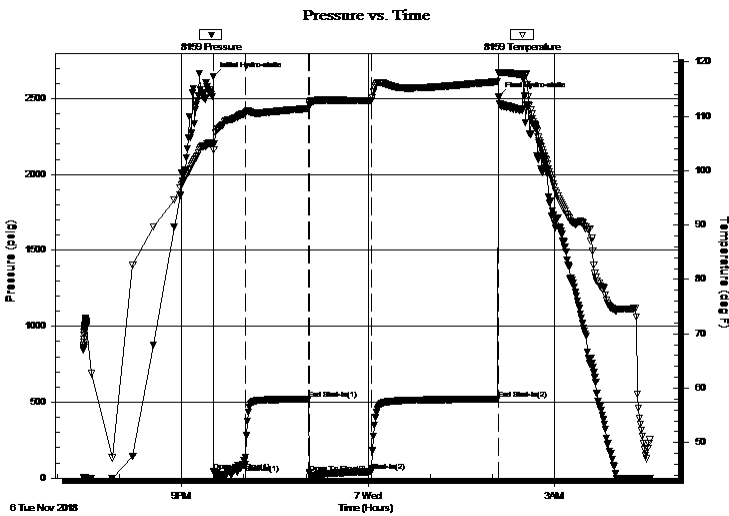
**5-29S-22W Ford**  
**Imel 2-5A**  
 Job Ticket: 63842      **DST#: 2**  
 Test Start: 2018.11.06 @ 19:25:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 21:31:02 Tester: Leal Cason  
 Time Test Ended: 04:33:02 Unit No: 74  
 Interval: **5231.00 ft (KB) To 5251.00 ft (KB) (TVD)** Reference Elevations: 2516.00 ft (KB)  
 Total Depth: 5251.00 ft (KB) (TVD) 2504.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

**Serial #: 8159 Inside**  
 Press@RunDepth: 44.16 psig @ 5232.00 ft (KB) Capacity: psig  
 Start Date: 2018.11.06 End Date: 2018.11.07 Last Calib.: 2018.11.07  
 Start Time: 19:25:01 End Time: 04:33:02 Time On Btm: 2018.11.06 @ 21:30:17  
 Time Off Btm: 2018.11.07 @ 02:06:17

**TEST COMMENT:** IF: Strong Blow , BOB in 5 minutes, Built to 154 inches  
 IS: No Blow Back  
 FF: Strong Blow , BOB Immediate, Built to 277 inches, GTS in 42 minutes, TSTM, Caught Sample  
 FS: No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2644.65	105.00	Initial Hydro-static
1	42.99	103.85	Open To Flow (1)
31	93.50	110.43	Shut-In(1)
93	519.03	111.43	End Shut-In(1)
94	30.57	112.48	Open To Flow (2)
153	44.16	112.85	Shut-In(2)
276	519.36	116.41	End Shut-In(2)
276	2509.52	118.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	5171 GIP	0.00
60.00	GOCM 5%G 20%O 75%M	0.84

\* Recovery from multiple tests

## Gas Rates

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







**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 2-5A**

Job Ticket: 63842

**DST#: 2**

ATTN: Tom Dudgeon

Test Start: 2018.11.06 @ 19:25:00

### 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:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 0.02 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	5171 GIP	0.000
60.00	GOCM 5%G 20%O 75%M	0.842

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

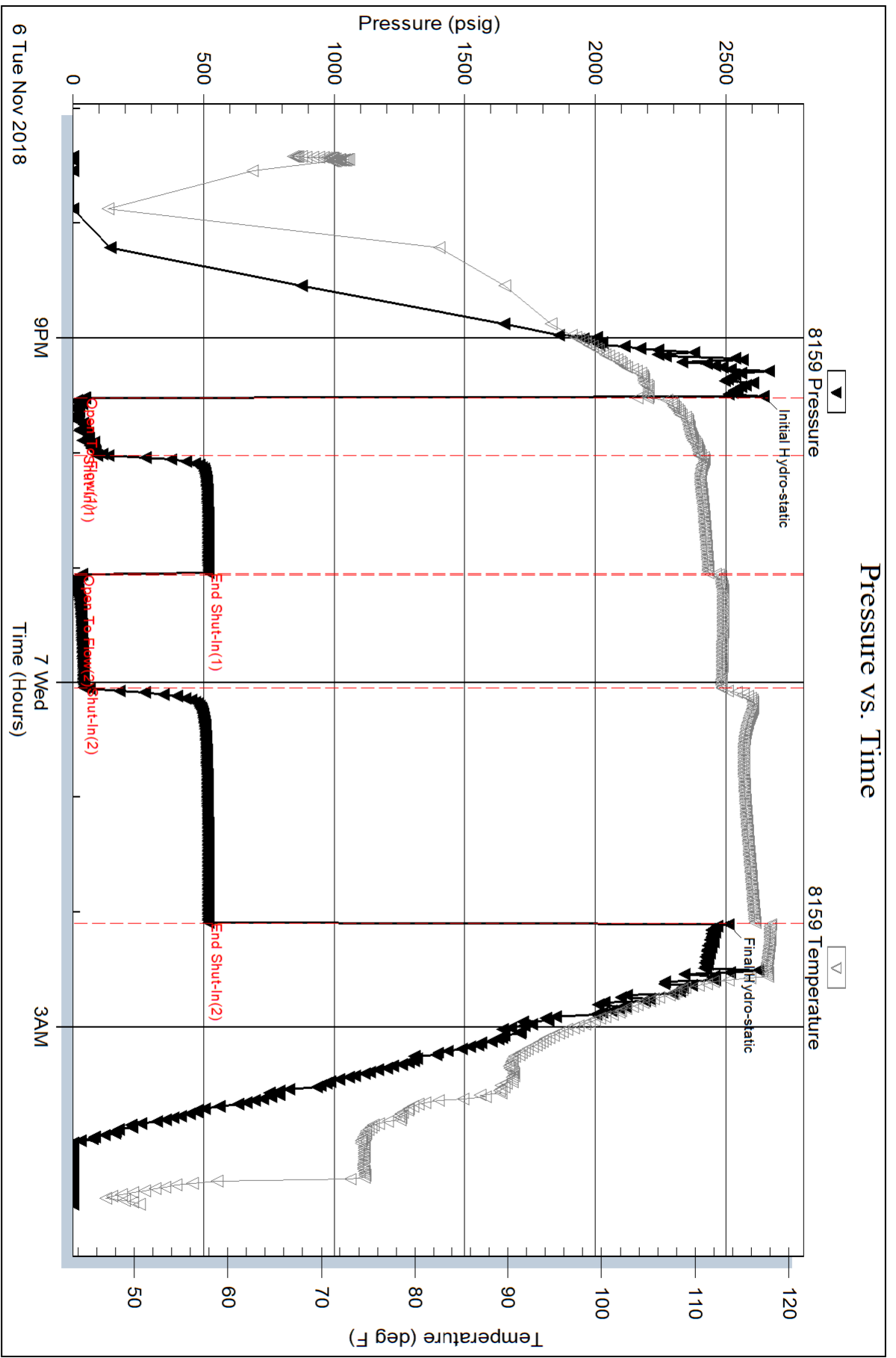
Serial #: 8159

Inside

Vincent Oil Corporation

Inel 2-5A

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 63842

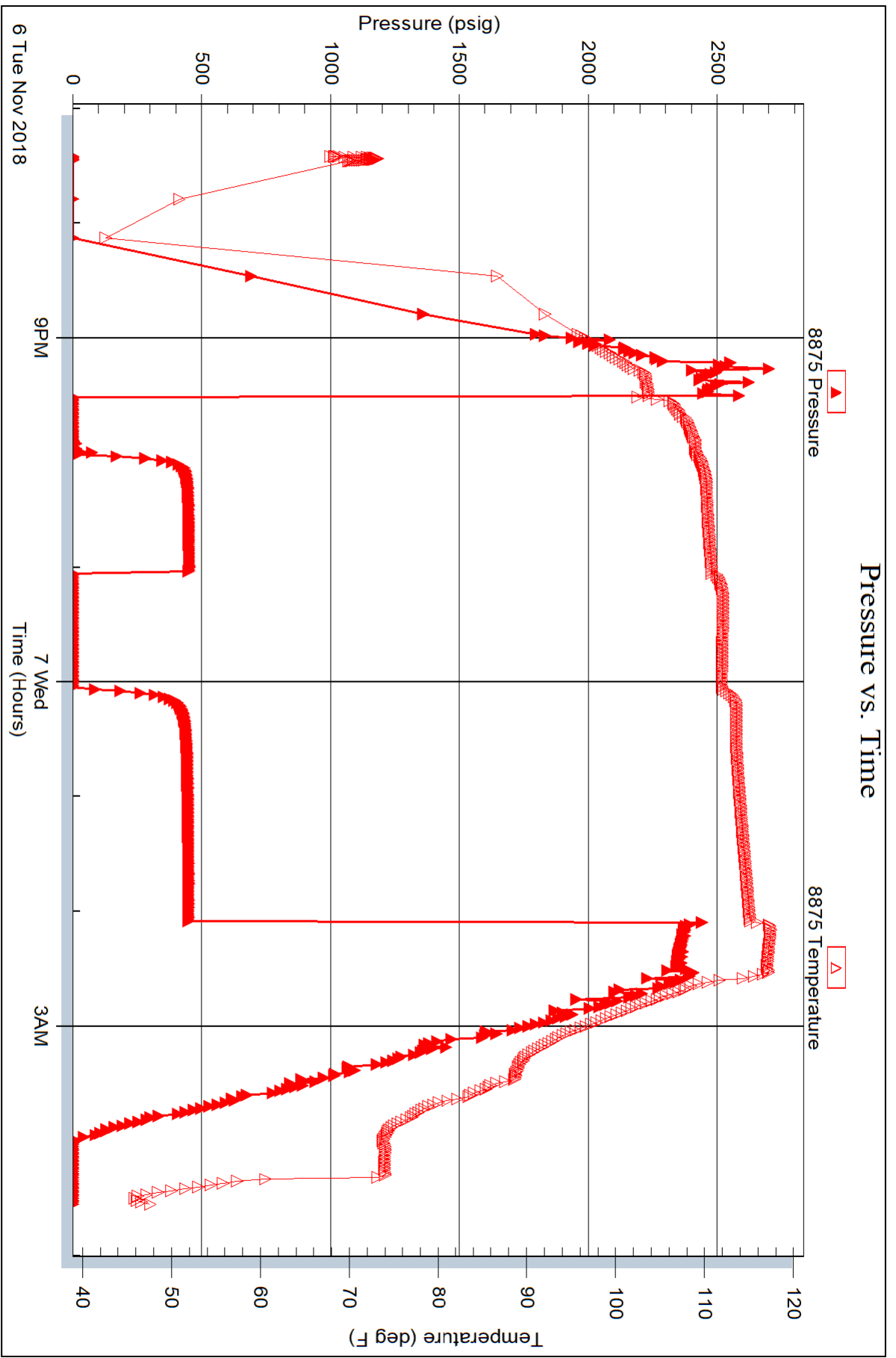
Printed: 2018.11.07 @ 07:00:50

Serial #: 8875

Outside Vincent Oil Corporation

Inel 2-5A

DST Test Number: 2









**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 2-5A**

Job Ticket: 63843

**DST#: 3**

ATTN: Tom Dudgeon

Test Start: 2018.11.07 @ 14:06:00

## 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: 81.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11200.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

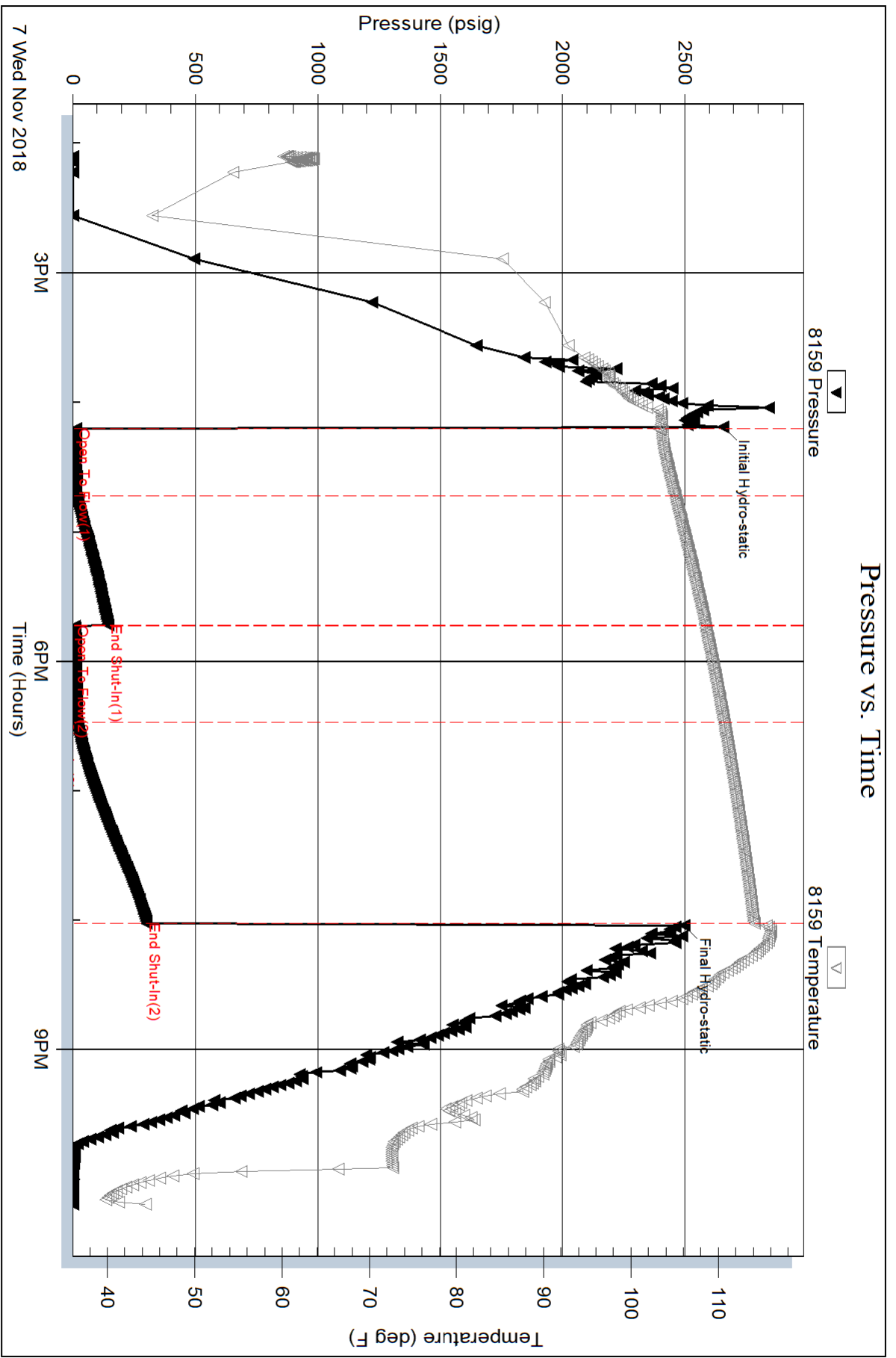
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



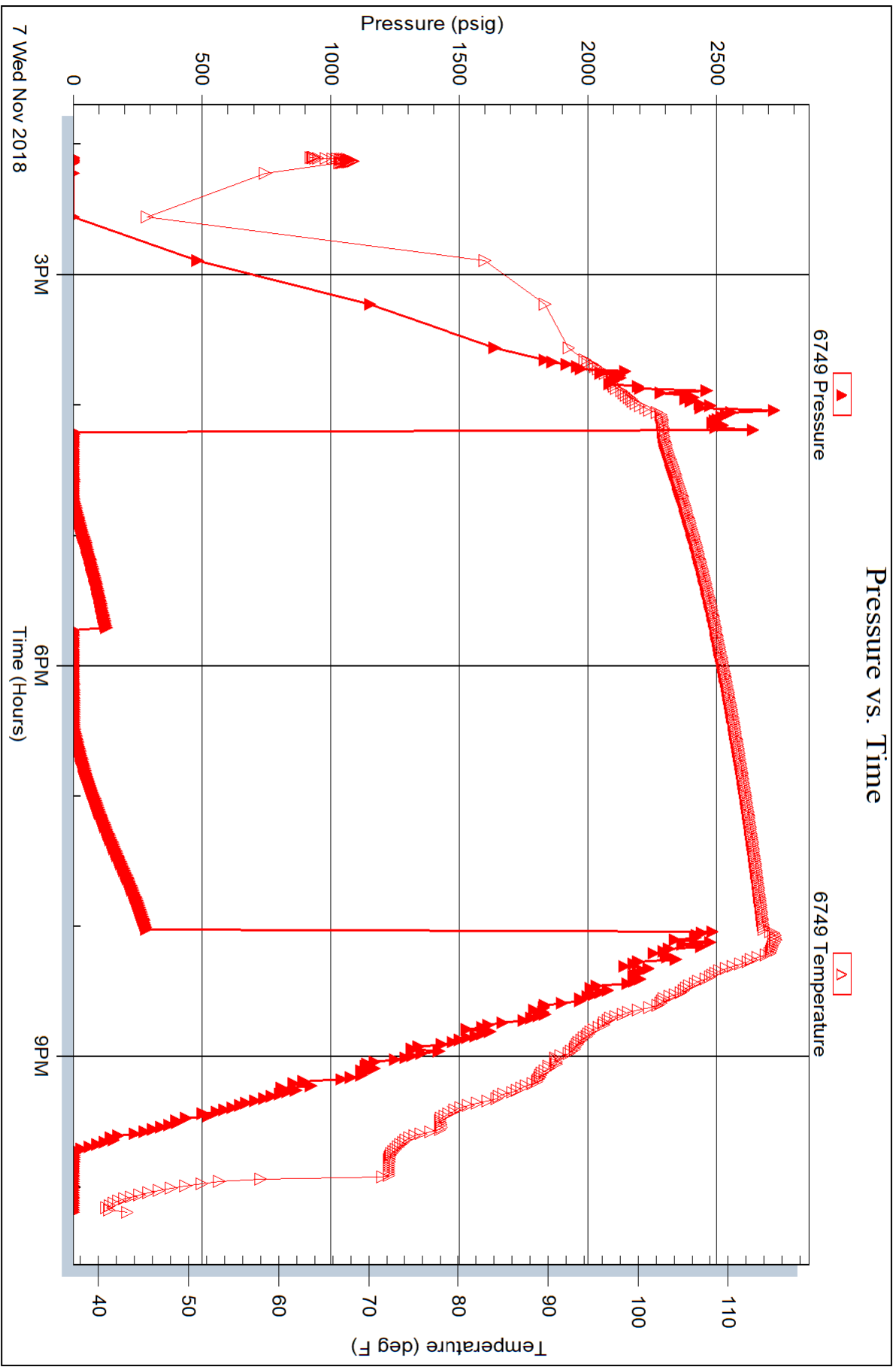
Serial #: 6749

Outside

Vincent Oil Corporation

Inel 2-5A

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63843

Printed: 2018.11.07 @ 22:44:51





Scale 1:240 Imperial

Well Name: Imel 2-5A  
Surface Location: 2340' FNL 1080' FWL 5-29S-22W  
Bottom Location:  
API: 15-057-21004-00-00  
License Number: 5004  
Spud Date: 10/29/2018 Time: 8:00 PM  
Region: SW KS  
Drilling Completed: 11/8/2018 Time: 7:14 AM  
Surface Coordinates: 2340' FNL & 1080' FWL  
Bottom Hole Coordinates:  
Ground Elevation: 2504.00ft  
K.B. Elevation: 2516.00ft  
Logged Interval: 4250.00ft To: 5380.00ft  
Total Depth: 5380.00ft  
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 2-5A  
Location: 2340' FNL 1080' FWL 5-29S-22W  
API: 15-057-21004-00-00  
Pool: Development  
State: KANSAS  
Field: Kingsdown NW  
Country: USA

#### CONTRACTOR

Contractor: Duke Drilling Co., Inc.  
Rig #: 1  
Rig Type: Mud Rotary  
Spud Date: 10/29/2018 Time: 8:00 PM  
TD Date: 11/8/2018 Time: 7:14 AM  
Rig Release: 11/9/2018 Time: 11:00 PM

#### LOGGED BY

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

#### ELEVATIONS

K.B. Elevation: 2516.00ft Ground Elevation: 2504.00ft

R.B. Elevation: 2316.00ft Ground Elevation: 2304.00ft  
 K.B. to Ground: 12.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.7535272  
 Latitude: 37.5499352  
 N/S Co-ord: 2340' FNL  
 E/W Co-ord: 1080' FWL

**TOTAL DEPTH**

Measurement Type:	Measurement Depth:	TVD:
RTD	5380.00	5386.00
LTD	5386.00	5386.00

**DRILLING FLUID SUMMARY**

Type	Date	From Depth	To Depth
Chemical Mud	11/2/2018	3792.00ft	5380.00ft

**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	690 ft	23#	16	10/30/2018 6:00 PM
Int Casing					
Prod Casing	4.5 in	5376 ft	11.6#	122	11/9/2018 11:00 PM

**CASING SEQUENCE**

Type	Hole Size	Casing Size	At
Surface 23#	12.25 in	8.63	690.00 ft
Production 11.6#	7.88 in	4.50	5376.00 ft

**OPEN HOLE LOGS**

Logging Company: ELI  
 Logging Engineer: Jason Cappellucci  
 Truck #: 3802  
 Logging Date: 11/8/2018  
 # Logs Run: 4  
 Time Spent: 5  
 # Logs Run Successful: 4

**LOGS RUN**

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5380.00ft	2.00		1
NEU/DEN/PE	4250.00ft	5380.00ft	2.00		1
MICRO	4250.00ft	5380.00ft	3.00		2
SONIC	0.00ft	5380.00ft	3.00		2

**LOGGING OPERATION SUMMARY**

Date	From	To	Description Of Operation
11/8/2018	0.00ft	5380.00ft	Logs Run Successfully

**NOTES**

Reference Wells  
 A - Imel 1-5A 2246' FNL & 144' FWL 5-29S-22W  
 B - Imel 1-5 2240" FNL & 2310' FWL 5-29-22W

Surface Casing Cement: 125 sx MDC (2% Gel, 3% CC & 1/4# flo-seal/sx and 150 sx Common (4% Gel, 3% CC & 1/4# Flo-seal/sx)

Completion Cement:

Production Casing Cement: 170 sx Pro-C Cement, Plugged rathole w/ 30 sx and mouse hole

Straight Hole Surveys  
 Deegree Depth

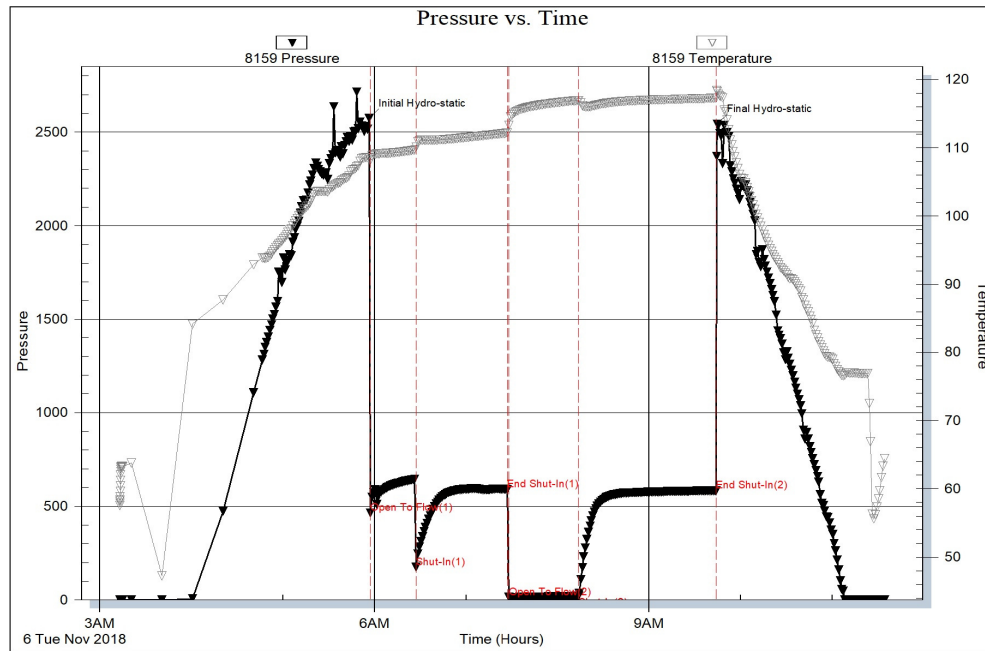
1\* 690  
 1\* 1710  
 1\* 2784  
 1\* 3792  
 1\* 5235

Tops

Top	Depth	Datum	Imel 1-5A	Imel 1-5
HBR	4368	-1852	-2	-6
BL	4515	-1999	1	-2
LANS	4527	-2011	FLAT	-4
STARK	4862	-2346	-3	-6
HUSH	4902	-2386	1	-12
BKC	4970	-2454	4	-2
MARM	4986	-2470	7	-2
PAW	5062	-2546	1	1
LAB	5087	-2571	1	1
CHER	5110	-2594	2	-1
B/PENN	5207	-2691	3	-4
MISS	5229	-2713	4	11

DST #1

Serial #: 8159    Inside    Vincent Oil Corporation    Imel #2-5A    DST Test Number: 1



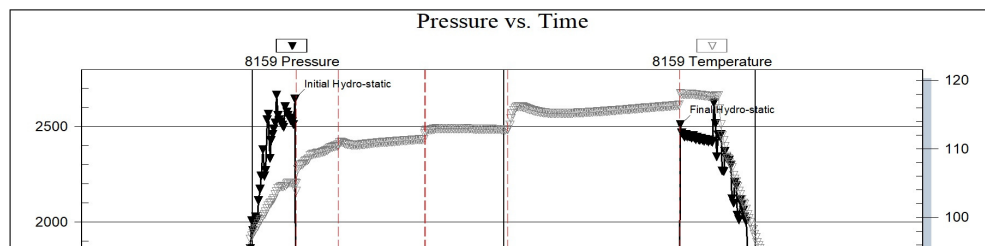
Trilobite Testing, Inc

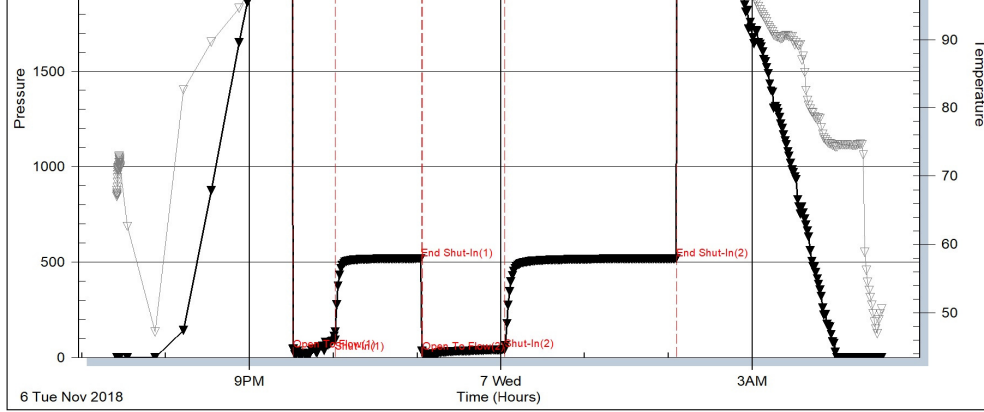
Ref. No: 63841

Printed: 2018.11.08 @ 14:35:26

DST #2

Serial #: 8159    Inside    Vincent Oil Corporation    Imel #2-5A    DST Test Number: 2





Trilobite Testing, Inc

Ref. No: 63842

Printed: 2018.11.08 @ 14:34:59

### DST #3

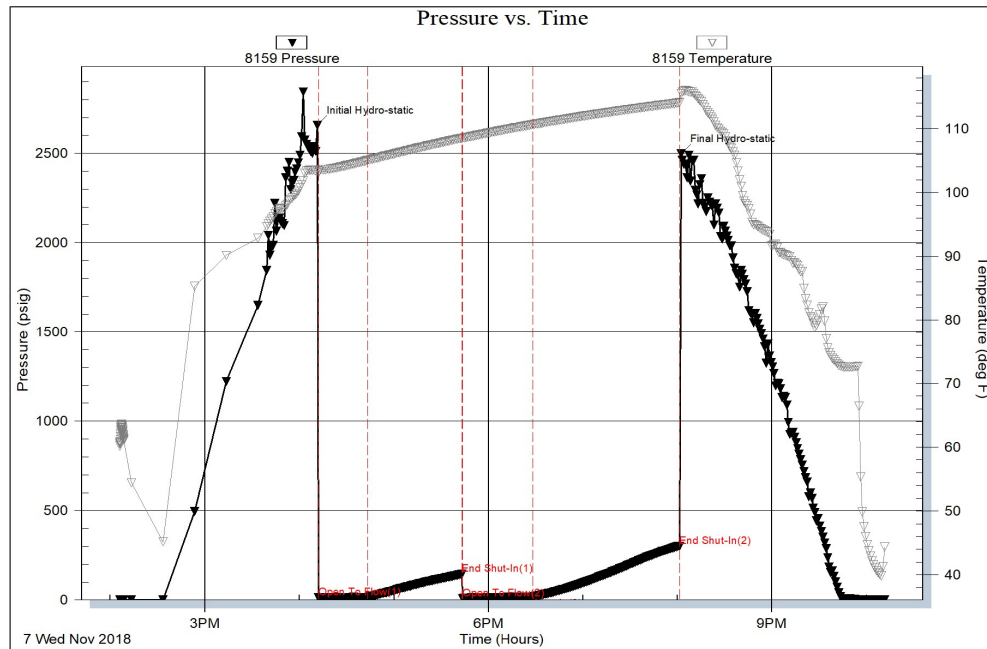
Serial #: 8159

Inside

Vincent Oil Corporation

Imel #2-5A

DST Test Number: 3






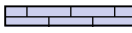




Trilobite Testing, Inc

Ref. No: 63843

Printed: 2018.11.08 @ 14:33:47

### ROCK TYPES

 Coal	 Lmst fw<7	 Shgy	 Shcol
 Dolsec	 Lmst fw>7	 Shblk	 Cht vari

### ACCESSORIES

#### MINERAL

- Argillaceous
- ⊥ Calcareous
- Carbonaceous Flakes
- ▲ Chert, dark
- ∩ Glauconite
- Heavy, dark minerals
- × Mineral Crystals
- P Pyrite
- Sandy
- Silty
- ∕ Euhed rhombs of dol or
- △ Chert White

#### FOSSIL

- ∩ Bioclastic or Fragmental
- ◇ Brachiopod
- ∩ Foraminifera
- F Fossils < 20%
- ∩ Oolite

#### STRINGER

- Sandstone
- Shale

#### TEXTURE

- C Chalky
- e Earthy
- FX Finexln
- MX Microxln

#### DUNHAM

- MS Mudst
- WS Wackstone

## OTHER SYMBOLS

### POROSITY TYPE

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

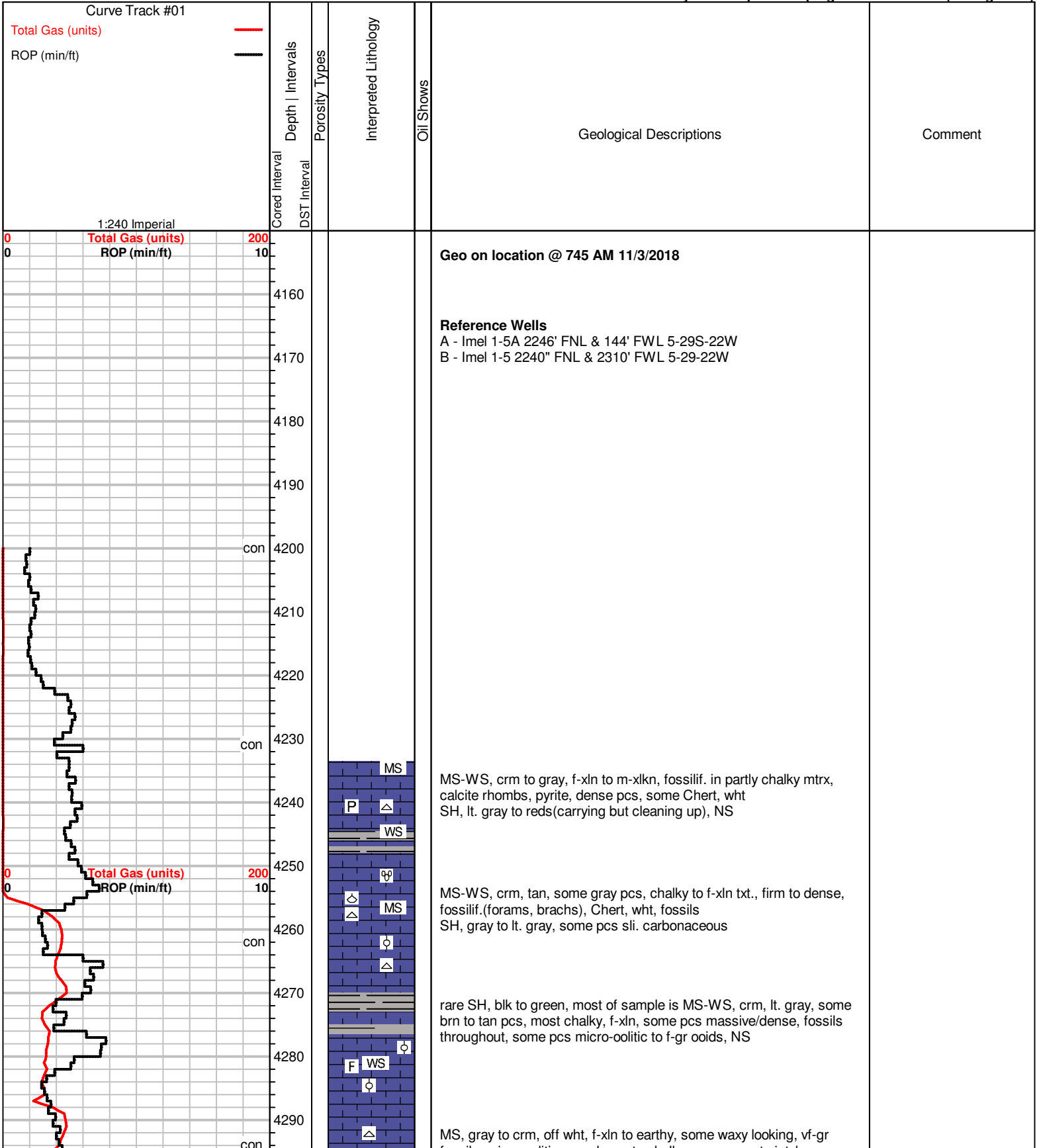
### OIL SHOWS

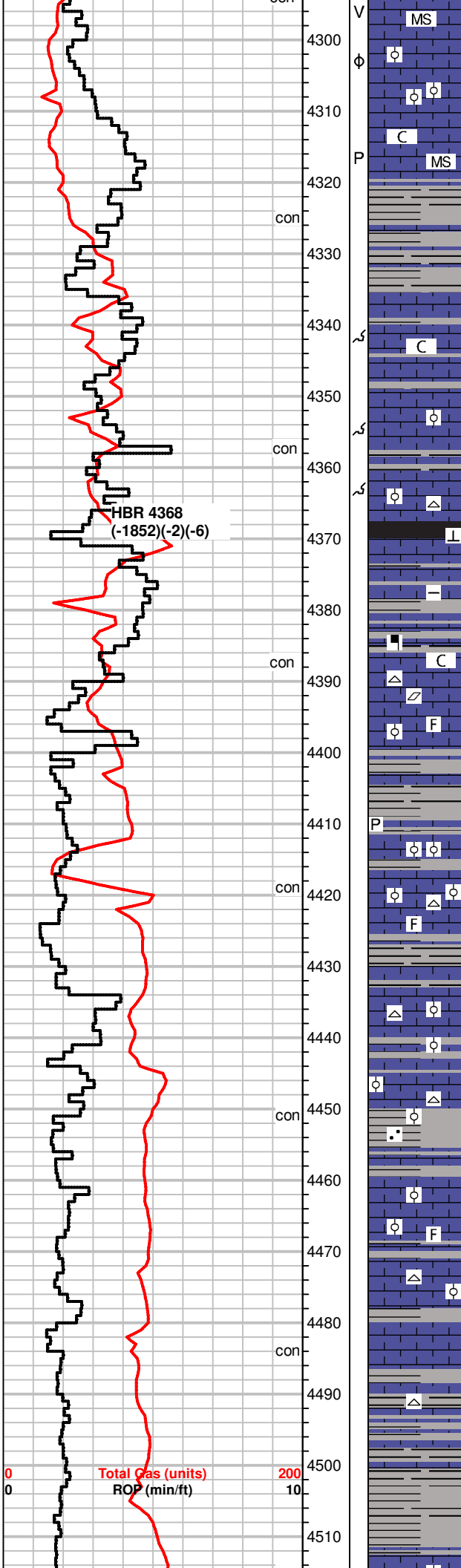
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

### INTERVALS

- Core
- DST

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





4300 V MS  
 fossils, micro oolitic pcs, dense to chalky, rare vuggy to insular por., rare Chert, wht  
 SH, lt. gray to gray, some blocky pcs, NS

4310 P C MS  
 Litology change- MS, tan to crm, earthy to massive pcs, scatt fossils, dense looking, friable, some hard pcs, PP por., rare Chert, gray, some scatt SH's, gray

4320 con

4330

4340 MS-WS, vf-xln to gritty, earthy txt, some massive pcs, A.A., chalky to f-gr oolitic pcs in sli. chalky mtrx, many dense pcs, hard, NS  
 rare SH, gray, red bands, green

4350 C

4360 SHs, Blk, gray, carb., brn  
 MS-WS, crm to tan, some gray, f-xln to waxy/earthy txt, m-gr sub oolitic to dense pcs, scatt mottled pcs, shaly in pt., NS, rare Chert, wht, fossilif., moldic por.

4370 HBR 4368 (-1852)(-2)(-6) L

4380 SH, blk, brn, green, grays  
 MS, crm to tan, f-xln, chalky pcs scatt, some m-gr oolitic, dense, mineral flakes, NS, Chert, wht, fossils, gray

4390 con C

4400 MS, scatt WS, crm to off wht, tan, rare gray, f-xln to chalky pcs, friable to dense pcs, fossilif., calcite  
 SH, blk, grays

4410 P

4420 MS, gray to crm, f-xln to chalky, micro oolitic to fossilif., firm to friable, gritty pcs, pyrite, Chert, wht

4430 con

4440 SH, varicolored, brn, green, gray, red  
 MS, crm to tan, gray, f-xln, shalky, mottled pcs, fossilif. in chalky mtrx, soft to firm, gritty pcs scatt, NS  
 scatt Chert, wht

4450 con

4460 Scatt SH, gray, green, silty pcs, some waxy, rare brn pcs  
 MS, crm to lt. tan, f-xln, chalky to earthy, some gritty txt, micro oolitic to sandy in pt. assoc. Chert, wht

4470 F

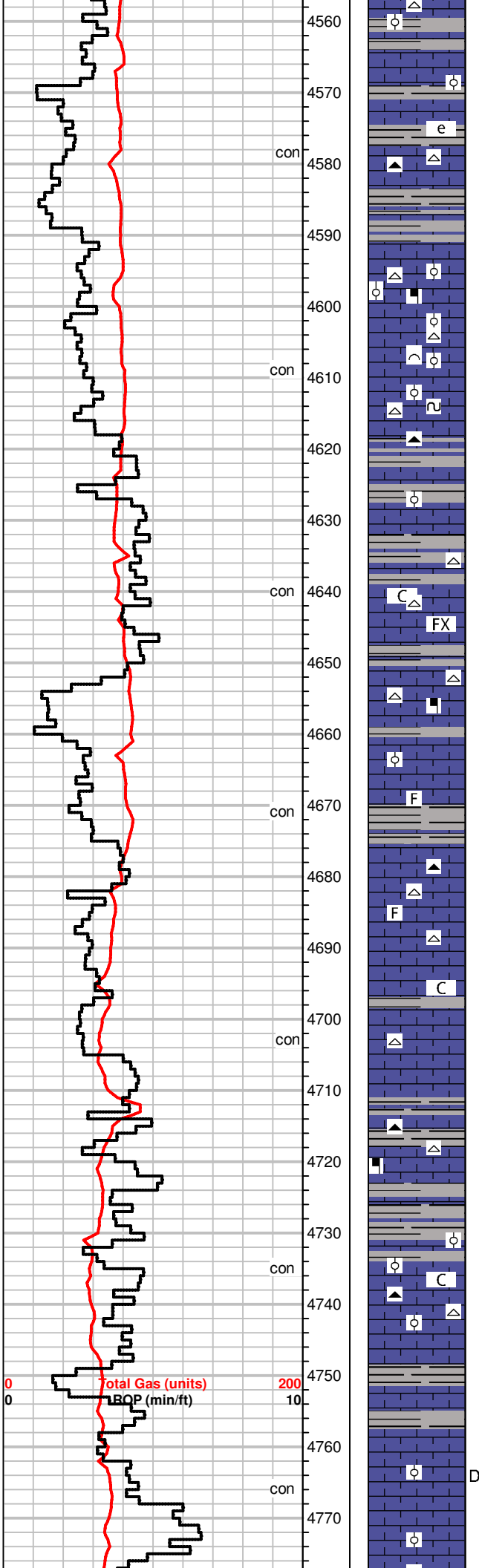
4480 SH, gray to green, some brn, waxy to silty in pt., MS, some WS, crm to tan, lt. brn, f-xln, to chalky, fossilif. to gritty/shaly txt, waxy in pt., dark specs, Chert frgmnts, wht, tan, dull flour, NS

4490 con

4500 WS-ms, off wht to crm, tan pcs scatt, gritty/f-xln to earthy txt, firm to hard, scatt dense, micro oolitic/fossilif., sandy in pt., rare mottled pcs, mineral flour, NS, Chert, wht  
 SH, grays, green, brn.

4510

MS-WS, brnt to tan, f-xln, dense to hard, scatt fossils, massive pcs,



wht, NS  
SH, gray, green

SH, blk, gray, silty to partly sandy,  
MS, crm to lt. gray, chalky to f-xln, some pcs earthy, firm to dense pcs,  
scatt, fossils, some calcite veins, Chert, wht, brn

MS-WS, crm to off wht, lt. gray, f-xln, gritty, micro oolitic/suboolitic,  
some earthy/waxy looking, firm to hard, chalky in pt./sli. shaly, scatt  
fossils, Chert, wht  
some SH, rare grays, green

MS, brn to tan, f-xln, dense to massive, rare pcs sli. shaly to mottled,  
dense to hard, rare glauc specs, rare fossils, Chert, gray  
SH, dk. gray(rare), some green

MS, crm to brn, gray, vf-xln to gritty txt, hard to firm, some pcs soft,  
chalky, scatt massive/dense pcs, NS, Chert, wht/tan, fossils, scatt  
mineral specs in sli. shaly pcs, SH, gray, brn

MS-WS, crm to brn, tan, f-xln, dense/massive txt in pt., some pcs w/  
fossils/mineral specs, Chert, opaque, mineral specs, fossils, some  
pcs sandy, NS, rare sli. chalky pcs  
scatt SH, grays

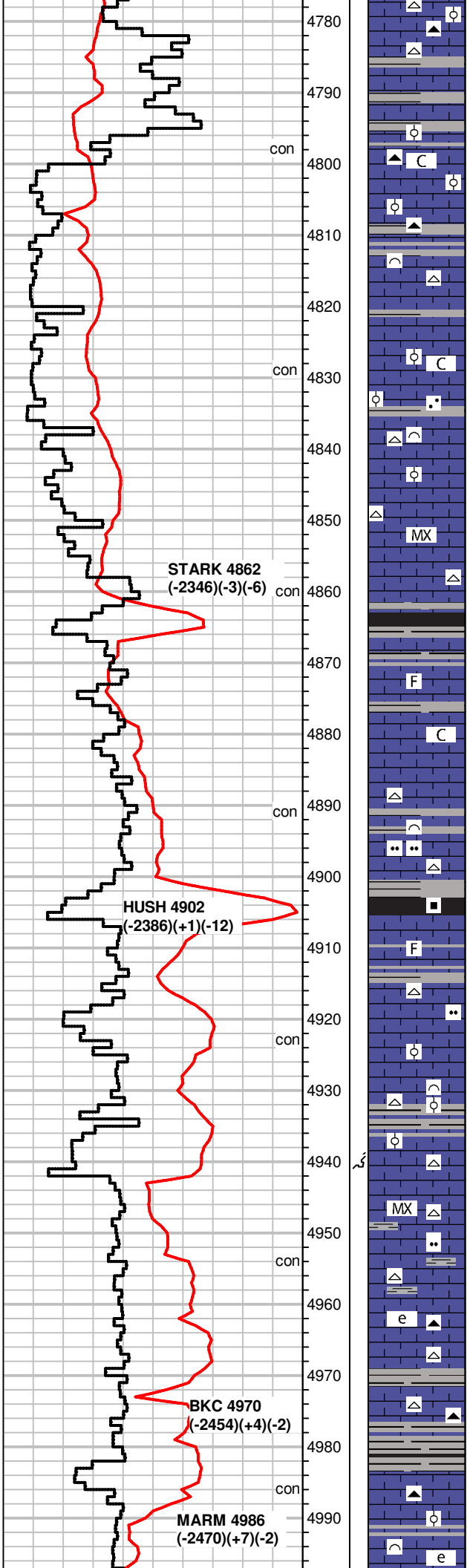
MS-WS, gray, tan, brn, f-xln to vf-xln, earthy to chalky pcs, some  
dense, most firm to hard, brittle, some shaly in pt., fossils scatt, NS,  
Chert, gray, tan, fossilif., SH, gray, limey in pt.

MS, crm to off wht, massive to earthy txt, sli. chalky in pt., friable, rare  
micro fossils, dull flour, NS, some rare WS, brn to tan, f-xln, hard  
fossils, NS, Chert, wht

MS, crm to brn, f-xln, some A.A., gritty/silty pcs, firable to dense, some  
shaly in pt., Chert, gray/wht, fossilif, scatt mottled pcs  
SH, grays

MS-WS, crm to tan(most), some gray, f-xln, firm to dense, some  
friable, rare co-gr to m-gr ooids in shaly/chalky mtrx, scatt fossils, dull  
flour, NS, Chert, wht to gray, fossils,  
rare SH, dk. grays

SH, gray, green, brn, silty to sandy, MS, crm to tan, some gray, A.A.,  
vf-xln to earthy/chalky txt, some massive pcs, firm to dense, scatt  
fossils, dead wormy stn, no fluor, NS, Chert, brn, gray, wht, fossils



MS-WS, crm to lt. tan, vf-xln to chalky, dense to hard, fossils in tite chalky mtrx, Chert frgmts, tan/wht, NS  
rare SH, green, gray, brn

rare SH, blk to brn  
WS-MS, brn to tan, crm, chalky to f-xln, m-gr oolitic in chalky mtrx, some pcs dense, most friable/soft, Chert, wht, brn, fossils, NS

MS, crm to tan, f-xln, some chalky, firm to dense pcs, fossils/sub oolitic in part, Chert, wht, gray, fossils, scatt SH, gray, green

WS-MS, tan to brn, f-xln to m-xln, some pcs chalky in pt., fn gr-oolitic, firm to friable, rare dense pcs, sandy in pt., dull fluor, NS,

MS, crm to tan, vf-xln to massive txt, hard to dense, some pcs chalky/soft, fossilif. in pt., some Chert, wht, opaque, oolitic

SH, blk, to grays

MS-WS, brn to crm, massive brn pcs, most crm f-xln to chalky, firm to dense, some fossils, dull fluor, NS

rare SH, blk, grays, fossil frgmts, some brn, silty in pt.  
MS, rare WS, crm to brn, gray, vf-xln to massive/dense pcs, some pcs brittle, rare fossils, dull fluor, NS, Chert, wht, fossilif.

Sh, blk, grays, brn, some pcs carbonaceous

MS, crm to lt. gray, f-xln, brittle, gritty pcs, scatt fossils, some assoc. Chert, wht, NS

MS, crm to tan, chalky to f-xln, fossilif., sub oolitic to fn-gr oolitic pcs, brittle to soft, NS, rare moldic por. Chert, wht, yellow, fossilif.  
SH, blk, gray, green, pyrite, fossils

WS-MS, crm, tan, brn, mic-xln to chalky pcs, dense to firm, some gritty, NS, Chert, wht, some SH, blk to grays

SH, blk, gray, brn, MS, gray to brn, f-xln, dense, gritty pcs scatt, most massive, hard, NS, Chert, wht, gray, fossils

MS, gray to brn, vf-xln, dense, hard, scatt fossils, shaly to chalky in pt., Chert, wht, blk, SH, grays

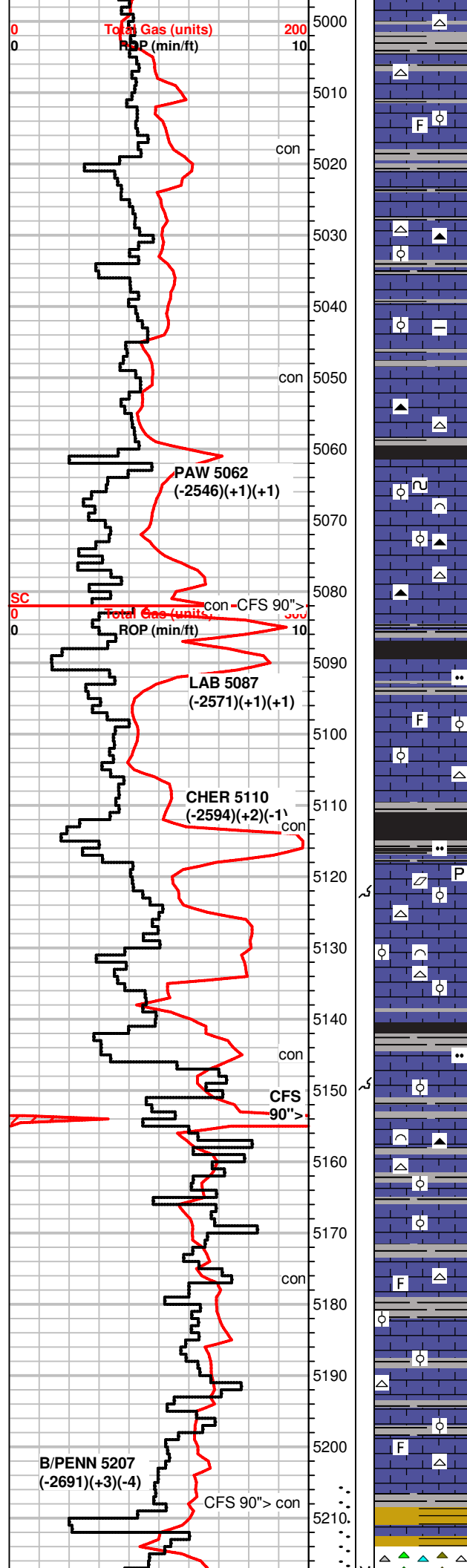
SH, blk to gray, gritty, silty  
MS, A.A., gray to crm, inc. in crm pcs, chalky to f-xln, sub oolitic/fossils, firm to hard, Chert, wht, blk, fossils

SH, blk, gray, green, MS, crm brn, gray, f-xln to chalky to earthy, firm to dense, gritty, some pcs fossilif., NS, Chert, wht, blk

+70 UGK Shale gas

+130 UGK Shale gas





MS, brn to crm, vf-xln, massive to f-xln pcs, hard/dense, scatt fossils, Chert, wht, SH, green, gray, brnsh red, limey in pt.

MS, gray to brn, tan, f-xln to massive, hard, dense, some sli. chalky pcs rare, co-gr fossil frgmts scatt, inc. in SH, gray to green

SH, dk. gray to gray, blk, inc amt., silty, MS, gray to crm, A.A., lesser fossils

MS, crm to gray, vf-xln to gritty txt, chalky in pt., some sub oolitic pcs, most dense/hard, dull fluor, NS, Chert, wht, brn, opaque  
 SH, blk to grays scatt

some SH, blk to gray, green, MS, crm to tan, chalky to f-xln, hard/brittle to soft, rare sub oolitic pcs, rare shaly mottled pcs, mineral fluor, NS

MS, crm to tan, mic-xlnk to f-xln, some pcs chalky, massive/dense to brittle, calcite rare, some Chert, opaque, brn  
 SH, blk to grays, green

MS-WS, crm to tan, brn, f-xln, sub oolitic to fossilif., gritty txt in pt., some chalky, rare green pcs w/ glauc specs, shaly, NS, Chert, wht to brn, fossils/mineral inclusions, SH, blk, gray

WS-MS, crm to tan, fxln to chalky, soft to hard/dense, fossilif in chalky mtrx, assoc. Chert, tan, white, brn, fossils, dull fluor, NS

MS-WS, crm to tan, chalky to f-xln, hard to firm, fossils scatt, some pcs sub oolitic in pt., Chert, brn, wht, NS

SH, blk, grays, green, silty in pt.  
 MS, crm to tan, lt. brn, f-xln, hard, some pcs massive, chalky pcs scatt, some gritty in pt., rare fossils, brittle, scatt mottled pcs, mineral fluor, NS

MS, crm to tan, f-xln, dense to chalky in pt., scatt fossils, NS

SH, blk, grays, brn, green, silty to carb.

MS-WS, crm to brn, gray, f-xln to m-xln, waxy looking, dense to massive, some pcs firm, fossils, moldic por., sandy in pt., calcite, dull fluor, NS  
 Chert, wht, pyrite

SH's, blk to grays, green, sandy in pt., MS, crm to tan, fxln to earthy txt, soft to friable, chalky in pt., scatt fossils, Chert, wht, NS

WS-MS, tan to crm, m-xln, chalky mtrx, fossilif. to f-gr oolitic, firm to dense pcs, dull fluor, NS,  
 SH, scatt blk to mostly gray to greenish gray, silty pcs.

MS-WS, crm to brn, tan, f-xln, chalky in pt., dense to fossilif/friable pcs, NS, rare moldic por.

SH, blk to green  
 MS, brn to crm, some gray, massive to f-xln, rare m-xln, friable, scatt fossilif, shaly in pt., Chert, wht, blk

MS, tan to crm, f-xln to earthy, rare sub oolitic pcs, firm to dense(most pcs), rare m-gr dark ooids in tite calc mtrx, mineral flour, NS  
 SH, gray, green, silty

SH, green to gray, some dk. gray, blk, gas bubbles rare  
 MS, crm, some brn, mic-xln to massive txt, some earthy in pt., dense, Chert, wht, NS

SH, dk. gray to blk, green, silty, rare pyrite, MS-WS, crm to brn, gray, vf-xln to earthy, some massive/dense pcs, m-gr oolitic in tite calc mtrx scatt, dull fluor, NS

MS to scatt WS, crm to tan, f-xln to m-xlnk, waxy looking, dense to partly chalky, friable to hard, NS, Chert, wht, fossilif/oolitic, scatt SH, gray to green, some blk

MS-WS, crm to tan, vf-xln to f-xln, chalky to dense/massive, brittle, scatt fossils, rare pcs w/ dead wormy stn, rare v. spotty bright fluor, no cut, no odor, rare Chert, wht, blk, SH, blk, green/sea green, grays

SH, sea green, mustard yellow, blk, grays, sandy to oolitic  
 Chert, wht, blk, opaque, fossils, NS, vev faint odor in bag

**+75 UGK, Shale gas**

**Gas Curve Scale Change 0-300 Units**

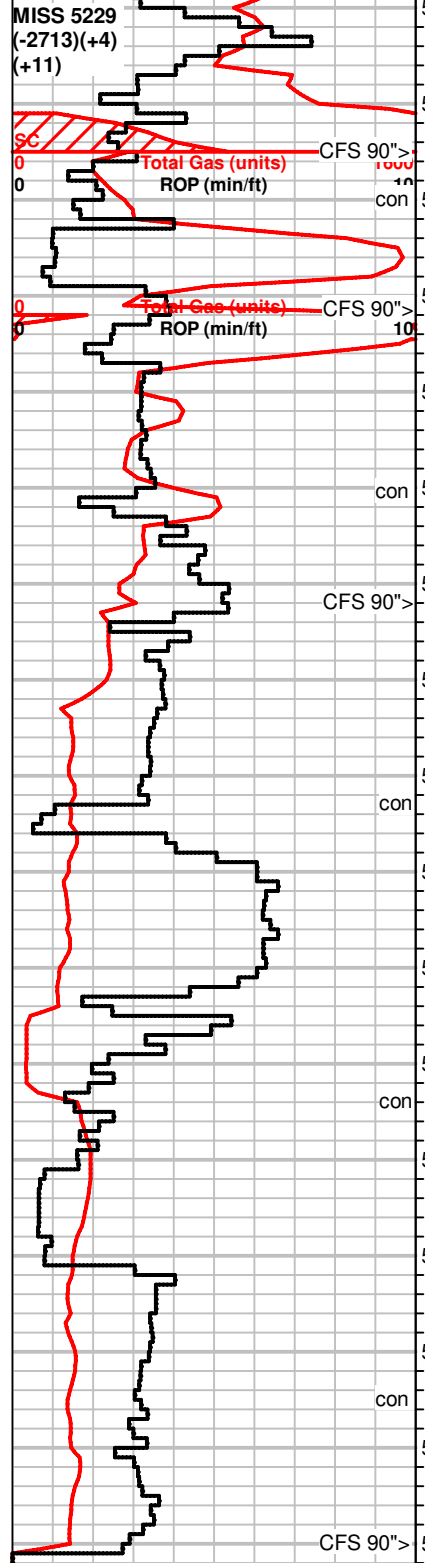
**+150 UGK, Shale gas**

**+150 UGK, Shale gas**

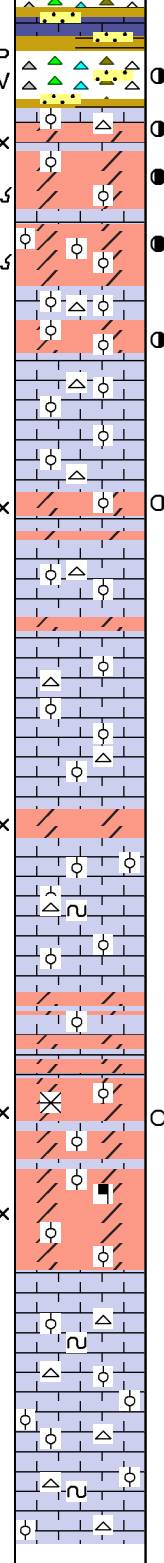
**BIT TRIP @ 5154'**  
**Pipe Strap - too windy, will attempt on DST #1**

**Trip gas**  
**DST #1 5205-5235**  
**30-60-45-90**  
**SB, blt to 3/4inch, dead @ 27 min**  
**NBB**  
**SB, BOB 30 sec, blt to 181 inches**  
**NBB**  
**295' GIP**  
**Rec: 20 SGCM (2g,98m)**  
**IH 2572#**  
**IF 465-175#**  
**ISIP 590#**  
**FF 15-22#**  
**FSIP 583#**  
**FH 2543#**  
**Temp 117°F**  
**Pipe Strap 3.14' Long**

**+20 UGK**



RTD 5380  
@ 7:14 AM  
11/8/2018



Chert, varicolored, mustard yellow, wht, grays, green, fossilif, rare sandy pcs, fair to good odor in bag, live/bleeding oil and gas, stn in vuggy por., inst streaming cut, vuggy to PP por.

Dolo, crm to gray, some lt. brn, f-xln, sucrosic txt, some fn-gr oolites in firm mtrx, bright fluor, inst cut from some pcs, good odor, partial sat., int-xln por.

WS-PS, crm to brn, sli. dolomitic, hard, dense, fossils

Dolo, brn to tan, f to m-xln, sucrosic pcs, firm to friable, f to m-gr oolitic pcs, good odor, live oil in tray, bleeding oil/gas, bright fluor, inst. streaming cut, int-xln and PP por., partial to even sat. in dry

PS-WS, off wht to crm, f-xln to m-xln, m-gr oolitic in tite calc mtrx, dull fluor, NS, Chert, wht, spls carrying SH, blk, varicolored Dolo, crm to brn, m-gr oolitic to f-xln sucrosic, shows A.A.

PS-WS, off wht to crm, chalky to f-xln, m-gr oolitic to fossilif., some ringed ooids in soft chalky mtrx, scatt pcs tite, dull fluor, NS, scatt Chert, wht, some SH, in spl, blk to grays

Dolo, brn to crm, vf-xln, sucrosic txt to m-xln, fossilif., tite to firm pcs, fair odor, some bright fluor, partial stn, milky cut to no cut from select pcs, streaming cut when broken

WS-PS, off wht to crm, chalky to f-xln, fossils to m-gr ooids in chalky mtrx, some mineral inclusions rare, dull fluor, NS

WS-PS, off wht, crm/tan, f-xln to chalky, m-gr oolitic, some pcs w/ tite calc. cement, NS

WS-PS, off wht to crm, f-xln, m-gr oolitic, chalky in pt., soft to firm, assoc Chert, bone wht, SH's blk to grays

WS-PS, off wht to crm, firm to soft, m-gr ringed ooids, fossilif pcs, some hard, rare Dolo, lt.gray, vf-suc txt, hard, dull fluor, NS

PS-WS, off wht to crm, f-xln, oolitic to fossils, glauc specs, Chert, wht, scatt Dolo, crm to lt. gray, vf-suc, sugary txt, hard, brittle, dull fluor, NS

Dolo, tan to brn, vf-xln, vf-sucroic txt, hard to firm, f-gr fossils to oolitic, dull fluor, faint odor, no show of oil, poor int-xln por., carrying SH, blk to grays, green

Dolo, brn to tan, some lt. gray, vf-xln to f-xln, sucrosic pcs, some f-gr oolitic w/ dark ooids, tite, hard to frim, brittle. dull fluor, NS

PS-WS, off wht to crm, f-xln to chalky in pt., brittle to hard/dense pcs, m-gr oolitic in chalky mtrx, glauc specs scatt, dull fluor, NS Chert, wht, opaque, fossils

PS-WS, off wht to crm, tan, chalky to f-xln, m-gr oolitic to sub oolitic, chalky, glauc specs, friable to dense pcs, dull fluor, NS Chert, wht to opaque, fossilif.

+240 UGK  
Gas Curve Scale  
Change 0-1600 units

+1270 UGK

DST #2 5231-5251  
30-60-60-120  
SB, BOB 5 min, blt to 154 inches  
NBB  
SB BOB immed, blt to 277 inches, GTS 42 min, TSTM  
NBB  
5171' GIP  
Rec: 60 GOCM'  
(5g,20o,75m)  
IH 2644#  
IF 4393#  
ISIP 519#  
FF 30-44#  
FSIP 519#  
FH 2509#  
Temp 118°F

DST #3 5266-5282  
30-60-45-90 FB blt to 6.25 inches  
NBB  
WB blt to 2.75 inches  
NBB  
Rec: 20' Mud  
IH 2655#  
IF 14-14#  
ISIP 144#  
FF 8-17#  
FSIP 302#  
FH 2497#  
Temp 115°F

