

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. 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) (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	KEOUGH 14-34
Doc ID	1576691

All Electric Logs Run

Dual Induction
Neuron -Density
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 14-34
Doc ID	1576691

Tops

Name	Top	Datum
Heebner Shale	4371	(-1817)
Brown Limestone	4309	(-1955)
Lansing	4520	(-1966)
Stark Shale	4855	(-2301)
Base Kansas City	4972	(-2419)
Pawnee	5065	(-2511)
Cherokee Shale	5114	(-2560)
Base Penn Limestone	5211	(-2657)
Mississippian	5232	(-2678)
RTD	5340	(-2786)



# Quality Well Service, Inc.

**PO Box 468  
Pratt, KS 67124**

# Invoice

Date	Invoice #
3/2/2021	C-2539

<b>Bill To</b>
Vincent Oil Corporation 200 W. Douglas, Ste. 725 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Keough 14-34

Description	Qty	Rate	Amount
Head & Manifold	1	250.00	250.00T
8 5/8 Wooden Plug	1	120.00	120.00T
8 5/8 Baffle Plate	1	120.00	120.00T
Common	175	15.50	2,712.50
MDC	125	18.00	2,250.00
Gel	329	0.22	72.38
Calcium	846	1.20	1,015.20
Flo-Seal	150	3.70	555.00
SFC 501-1500'	1	750.00	750.00
Handling	320	2.10	672.00
.08 * sacks * miles	9,600	0.08	768.00
Service Supervisor	1	150.00	150.00
LMV	60	3.75	225.00
Heavy Equipment Mileage	180	8.00	1,440.00
Customer Discount		-6,105.04	-6,105.04
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Keough 14-34			
Ford Co			

Thank You for your business!	<b>Subtotal</b>	\$4,995.04
<i>Revised 3-8-21</i>	<b>Sales Tax (7.65%)</b>	\$16.87
	<b>Total</b>	\$5,011.91

# QUALITY WELL SERVICE, INC.

7610

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
2-22-21	34	28S	23W	Foreo	Ks		
Lease KEOUGH		Well No. 14-34		Location Kingsdown Ki. N to Wilbur Rd			
Contractor DUKE OIL P.A. #1				Owner 37W N:W into			
Type Job SURFACE				To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4		T.D. 704'		Charge To VINCENT OIL COOP			
Csg. 8 5/8 23 #		Depth 702.65		Street			
Tbg. Size		Depth		City State			
Tool		Depth		City State			
Cement Left in Csg.		Shoe Joint 40.35		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 42.39		Cement Amount Ordered 125 ss mac 3/4 CL 1/2" PS			
<b>EQUIPMENT</b>				175 ss Common 2/4 GEL 3/4 CL 1/2" PS			
Pumptrk 9 No.				Common 320 ss 175 ss			
Bulktrk 12 No.				Poz-Mix 125 ss			
Bulktrk 12 No.				Gel. 329			
Pickup No.				Calcium 846			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 150			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 17 #1's 8 5/8 23 # Csg. SET @ 700.65				Sand			
START Csg ON Bottom				Handling 320			
Hook up to Csg. & Break circ w/ rig				Mileage 60 19600			
START Pumping 12 1/4 23 #				<b>FLOAT EQUIPMENT</b>			
START mac Pump 125 ss mac 3/4 CL 1/2" PS @ 12 1/4				Guide Shoe H.M. 1EA			
START mac Pump 175 ss Common 2/4 GEL 3/4 CL 1/2"				Centralizer 8 5/8 WOODEN PLATE 1EA			
@ 14.0' / Gal				Baskets 8 5/8 Baffle Plate 1EA			
SHUT down Release 8 5/8 WOODEN Plate				AFU Inserts			
START DISP				Float Shoe			
Plate down 550' 42.35 out				Latch Down			
Close Valve on Csg				SERVICE SUPPLY 1 EA			
Good Circ thro JOBS				L.M.J 60			
Circ cut TO Pit				Pumptrk Charge SURFACE			
T.H.W. 40)				Mileage 130			
Please Call AGAIN				Tax			
TODAY Mike							
Signature TRB Hedley				Discount			
				Total Charge			

# Quality Well Service, Inc.

**PO Box 468  
Pratt, KS 67124**

# Invoice

Date	Invoice #
3/11/2021	C-2551

<b>Bill To</b>
Vincent Oil Corporation 200 W. Douglas, Ste. 725 Wichita, KS 67202

P.O. No.	Terms	Lease Name
		Keough 14-34

Description	Qty	Rate	Amount
4 1/2 Guide Shoe	1	130.00	130.00T
4 1/2 Centralizer	6	50.00	300.00T
4 1/2 Rubber Plug	1	57.00	57.00T
4 1/2 AFU Insert	1	155.00	155.00T
Head & Manifold	1	250.00	250.00T
Pro-C	225	18.00	4,050.00T
Gel	423	0.22	93.06T
Salt	1,239	0.50	619.50T
Flo-Seal	56.25	3.70	208.13T
Kol-Seal	1,125	0.75	843.75T
Mud Flush	500	1.00	500.00T
Fluid Loss	127	10.50	1,333.50T
CC-1	7	35.00	245.00T
Cement Defoamer	53	6.00	318.00T
Longstring	1	1,750.00	1,750.00
Handling	253	2.10	531.30
.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	120	8.00	960.00
Customer Discount		-4,689.73	-4,689.73
Discount Expires after 30 days from the date of the invoice		0.00	0.00
Keough 14-34 Ford Co			

Thank You for your business!	<b>Subtotal</b>	\$8,709.51
	<b>Sales Tax (7.65%)</b>	\$452.64
	<b>Total</b>	\$9,162.15



# QUALITY WELL SERVICE, INC.

7625

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		
3-10-21	34	28S	23W	Ford	Ks				
Lease	KEOUGH		Well No.	14-34				Location	KINGS DOWN, KS N to W. 16th St
Contractor	DUKE DELG. RIG #1			Owner	3 3/4 W N:W int			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 LS								
Hole Size	7 7/8		T.D.	5340'				Charge To	VINCENT OIL CORP
Csg.	4 1/2 11.6		Depth	5338'				Street	
Tbg. Size			Depth					City	State
Tool			Depth						
Cement Left in Csg.			Shoe Joint	18.89				The above was done to satisfaction and supervision of owner agent or contractor.	
Meas Line			Displace	82.48				Cement Amount Ordered	225 sc Pro C 2% GEL
<b>EQUIPMENT</b>							10% SALT 5 1/2" x KOLSEAL .6% C16A .25% C4IP 25' B		
Pumptrk	8	No.		Com	225 sc				
Bulktrk	10	No.		Poz. Mix					
Bulktrk		No.		Gel.	423"				
Pickup		No.		Calcium					
<b>JOB SERVICES &amp; REMARKS</b>							Hulls		
Rat Hole	30 sc			Salt	1239"				
Mouse Hole	20 sc			Flowseal	56.25"				
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	C16A 127"				
Run 125 #1's 4 1/2 11.6" csg out @ 5338				Sand	CG-1 7 GAL C4IP 53"				
START CSG CSG ON BOTTOM! TAG				Handling	253				
Hook up to CSG & BREAK CIRC W/ RIG				Mileage	60 / 13500				
DRD P BALL & CIRC W/ RIG				<b>FLOAT EQUIPMENT</b>					
START Pumping 12 Bbl, 1120 12 Bbl, MF 10 Bbl, 1120				Guide Shoe	1 EA				
START FLOW 2-M Holes 50 sc				Centralizer	6 EA				
START Mix & Pump 175 sc Pro C @ 19.8 y CSG				Baskets	1 EA TOP Rubber Plug				
SHOT DOWN Wash up tck RELEASE 4 1/2 TR				AFU Inserts	1 EA				
START Disp w/ 2% KCL				Float Shoe	1 EA H:M				
LIFT PSI 70 out 500'				Latch Down					
PLUG DOWN 83 out 1100'				SERVICE SPV	1 EA				
PSI UP ON CSG 1500'				LMV	60				
RELEASE & HELD 1/2 Bbl BACK				Pumptrk Charge	LS				
Good circ thru JO3				Mileage	120				
THANK YOU								Tax	
PLEASE CALL AGAIN TODD MIKE MAT								Discount	
X Signature <i>[Signature]</i>								Total Charge	



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
 200 W Douglas Ave #725  
 Wichita, Ks. 67202  
 ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
 Job Ticket: 66761 **DST#: 1**  
 Test Start: 2021.03.07 @ 00:35:21

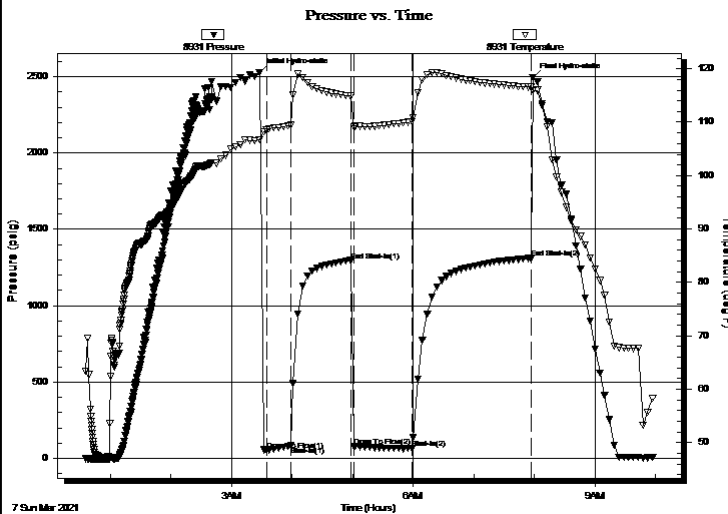
## GENERAL INFORMATION:

Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:34:36  
 Time Test Ended: 09:59:06  
 Interval: **5187.00 ft (KB) To 5241.00 ft (KB) (TVD)**  
 Total Depth: 5241.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 2554.00 ft (KB)  
 2542.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 8931

Press@RunDepth: 63.50 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.03.07 End Date: 2021.03.07 Last Calib.: 2021.03.07  
 Start Time: 00:35:26 End Time: 09:59:06 Time On Btm: 2021.03.07 @ 03:27:36  
 Time Off Btm: 2021.03.07 @ 07:58:21

TEST COMMENT: IF: Strong Blow . B.O.B. in 30 secs. Built over 791.53".  
 IS: Strong Blow . B.O.B. Immediately . G.T.S. Built to 248.98".  
 FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 725.62". Gauge at 3/8" Choke.  
 FS: No Blow .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2528.35	106.65	Initial Hydro-static
7	52.90	108.48	Open To Flow (1)
31	81.39	109.42	Shut-In(1)
91	1296.16	114.91	End Shut-In(1)
94	78.53	109.06	Open To Flow (2)
151	63.50	110.05	Shut-In(2)
269	1310.51	116.56	End Shut-In(2)
271	2496.46	115.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GM 1%g 99%m	1.26
0.00	G.I.P. 100%g (5075')	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	22.49	135.14
Last Gas Rate	0.38	13.67	102.83
Max. Gas Rate	0.38	22.49	135.14



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**

**Keough 14-34**

Job Ticket: 66761

**DST#: 1**

Test Start: 2021.03.07 @ 00:35:21

## GENERAL INFORMATION:

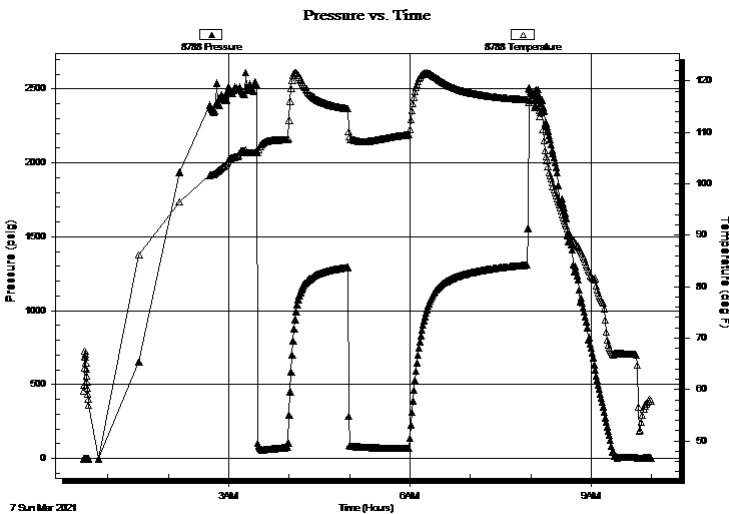
Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:34:36  
 Time Test Ended: 09:59:06  
 Interval: **5187.00 ft (KB) To 5241.00 ft (KB) (TVD)**  
 Total Depth: 5241.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 2554.00 ft (KB)  
 2542.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8788**

**Outside**

Press@RunDepth: psig @ 5188.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.03.07 End Date: 2021.03.07 Last Calib.: 2021.03.07  
 Start Time: 00:35:53 End Time: 09:59:33 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 30 secs. Built over 791.53".  
 IS: Strong Blow . B.O.B. Immediately . G.T.S. Built to 248.98".  
 FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 725.62". Gauge at 3/8" Choke.  
 FS: No Blow .



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	GM 1%g 99%m	1.26
0.00	G.I.P. 100%g (5075')	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	22.49	135.14
Last Gas Rate	0.38	13.67	102.83
Max. Gas Rate	0.38	22.49	135.14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66761      **DST#: 1**  
Test Start: 2021.03.07 @ 00:35:21

### 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:	6100 ppm
Viscosity: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6100.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GM 1%g 99%m	1.262
0.00	G.I.P. 100%g (5075')	0.000

Total Length: 90.00 ft      Total Volume: 1.262 bbl

Num Fluid Samples: 0      Num Gas Bombs: 1      Serial #: P24 MATT

Laboratory Name:      Laboratory Location:

Recovery Comments: G.T.S. 5,075 FT Gas In Pipe.



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Vincent Oil Corp

**34-28s-23w Ford Co. Ks.**

200 W Douglas Ave #725  
Wichita, Ks. 67202

**Keough 14-34**

Job Ticket: 66761

**DST#: 1**

ATTN: Tom Dungeun

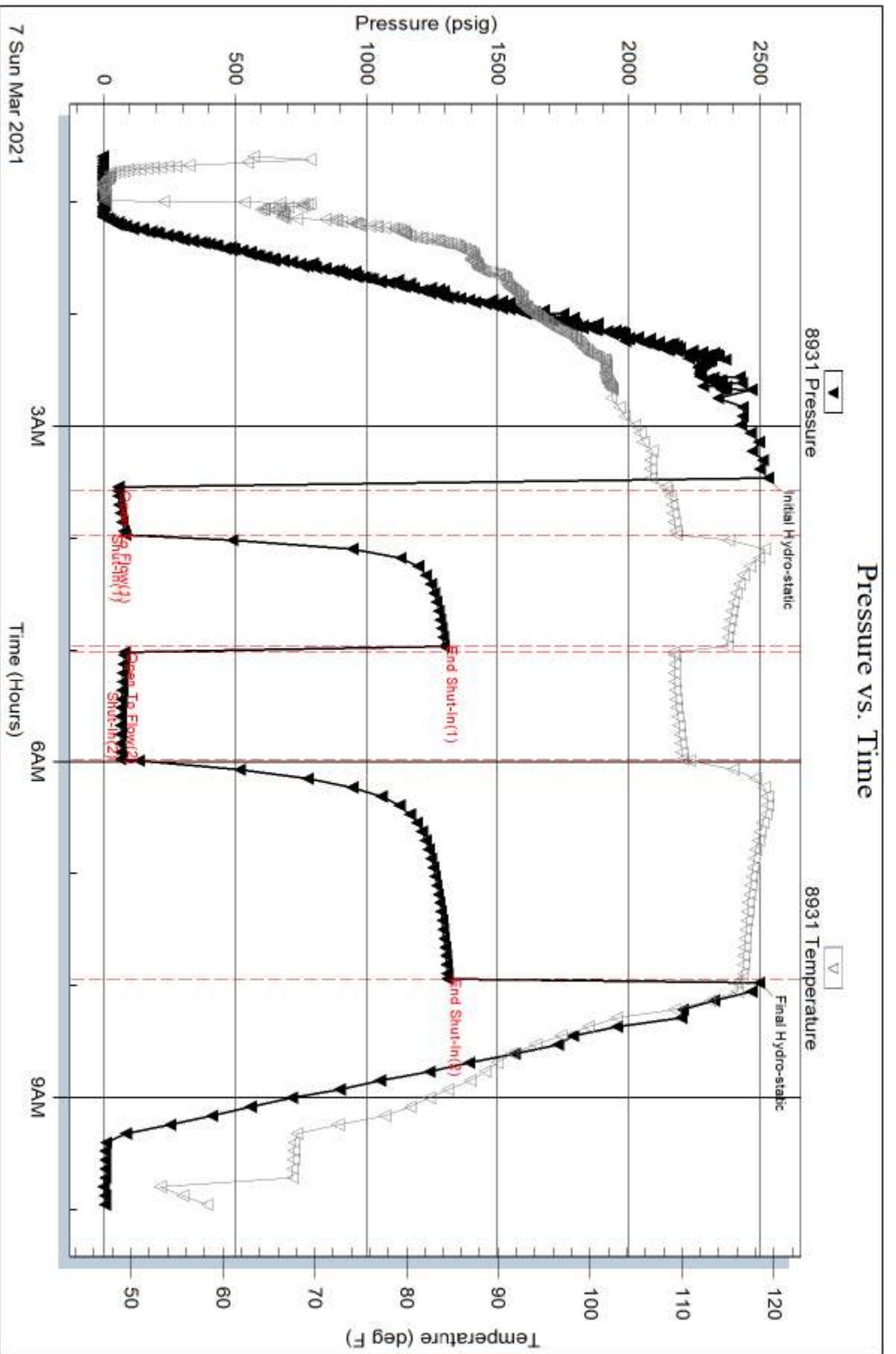
Test Start: 2021.03.07 @ 00:35:21

### 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)
2	10	0.38	22.49	135.14
2	20	0.38	19.48	124.11
2	30	0.38	17.19	115.72
2	40	0.38	15.58	109.82
2	50	0.38	14.44	105.65
2	60	0.38	13.67	102.83

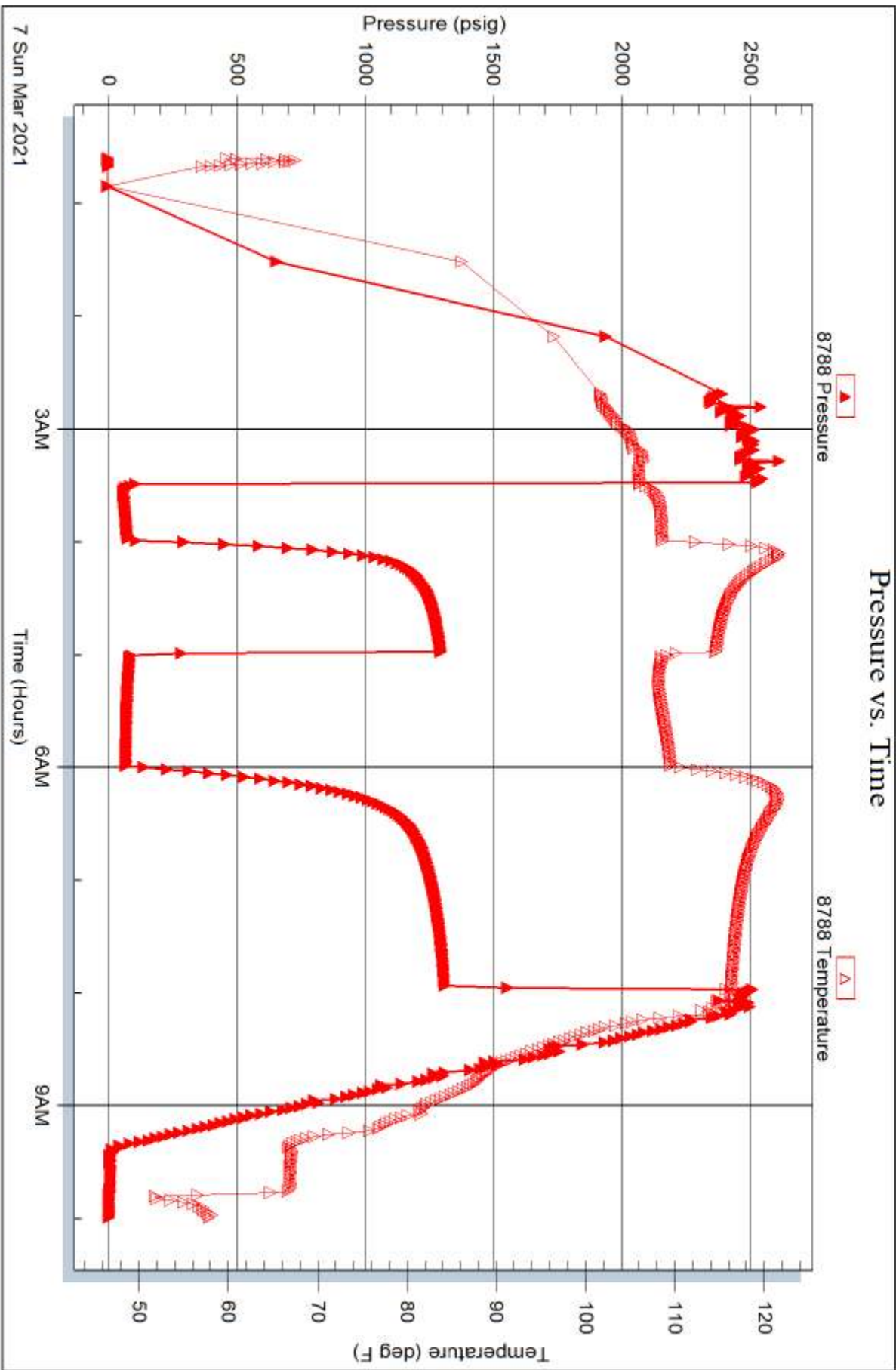


Serial #: 8788

Outside Vincent Oil Corp

Keough 14-34

DST Test Number: 1





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dungeun

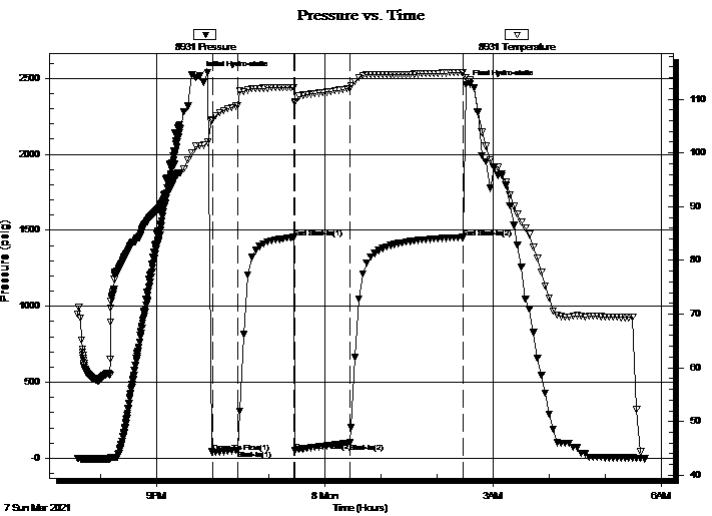
**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66762 **DST#: 2**  
Test Start: 2021.03.07 @ 19:35:14

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:59:29  
Time Test Ended: 05:43:44  
Interval: **5246.00 ft (KB) To 5263.00 ft (KB) (TVD)**  
Total Depth: 5263.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Matt Smith  
Unit No: 68  
Reference Elevations: 2554.00 ft (KB)  
2542.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8931 Inside**  
Press@RunDepth: 100.88 psig @ 5247.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.03.07 End Date: 2021.03.08 Last Calib.: 2021.03.08  
Start Time: 19:35:19 End Time: 05:43:44 Time On Btm: 2021.03.07 @ 21:46:14  
Time Off Btm: 2021.03.08 @ 02:30:59

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 324.64".  
IS: Weak Surface Blow .  
FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 513.35". Gauged 1/8" Choke.  
FS: Wak - Fair Blow . Built to 4.32".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2515.14	101.31	Initial Hydro-static
14	41.74	106.13	Open To Flow (1)
41	54.27	108.86	Shut-In(1)
100	1452.04	112.22	End Shut-In(1)
102	48.43	109.35	Open To Flow (2)
161	100.88	112.02	Shut-In(2)
282	1453.11	114.99	End Shut-In(2)
285	2458.08	113.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	GVSWMCO 55%g 36%HO 1%w 8%m	0.91
64.00	GHOCM 45%g 25%HO 30%m	0.90
40.00	CO 100%o	0.56
0.00	GTS	0.00

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.97	8.00
Last Gas Rate	0.13	18.51	12.32
Max. Gas Rate	0.13	18.51	12.32





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
 200 W Douglas Ave #725  
 Wichita, Ks. 67202  
 ATTN: Tom Dungeun

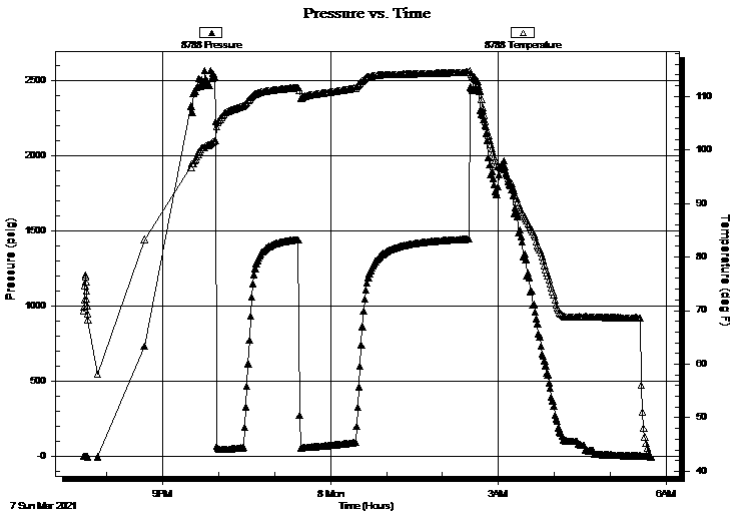
**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
 Job Ticket: 66762 **DST#: 2**  
 Test Start: 2021.03.07 @ 19:35:14

**GENERAL INFORMATION:**

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:59:29  
 Time Test Ended: 05:43:44  
 Interval: **5246.00 ft (KB) To 5263.00 ft (KB) (TVD)**  
 Total Depth: 5263.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 2554.00 ft (KB)  
 2542.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8788 Outside**  
 Press@RunDepth: psig @ 5247.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.03.07 End Date: 2021.03.08 Last Calib.: 2021.03.08  
 Start Time: 19:35:36 End Time: 05:44:01 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 324.64".  
 IS: Weak Surface Blow .  
 FF: Strong Blow . B.O.B. & G.T.S. immediately. Built to 513.35". Gauged 1/8" Choke.  
 FS: Wak - Fair Blow . Built to 4.32".



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
65.00	GVSWMCO 55%g 36%HO 1%w 8%m	0.91
64.00	GHOCM 45%g 25%HO 30%m	0.90
40.00	CO 100%o	0.56
0.00	GTS	0.00

**Gas Rates**

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.97	8.00
Last Gas Rate	0.13	18.51	12.32
Max. Gas Rate	0.13	18.51	12.32

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66762      **DST#: 2**  
Test Start: 2021.03.07 @ 19:35:14

## 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:	6100 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6100.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	GVSWMCO 55%g 36%HO 1%w 8%m	0.912
64.00	GHOCM 45%g 25%HO 30%m	0.898
40.00	CO 100%o	0.561
0.00	GTS	0.000

Total Length: 169.00 ft      Total Volume: 2.371 bbl

Num Fluid Samples: 1      Num Gas Bombs: 1      Serial #: P 21 MATT

Laboratory Name:      Laboratory Location:

Recovery Comments: Gravity is 33 at 60 Degrees. No correction.

5058 FT G.I.P.



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Vincent Oil Corp

**34-28s-23w Ford Co. Ks.**

200 W Douglas Ave #725  
Wichita, Ks. 67202

**Keough 14-34**

Job Ticket: 66762

**DST#: 2**

ATTN: Tom Dungeun

Test Start: 2021.03.07 @ 19:35:14

### 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)
2	10	0.13	6.97	8.00
2	20	0.13	9.88	9.09
2	30	0.13	12.50	10.07
2	40	0.13	14.72	10.90
2	50	0.13	16.60	11.60
2	60	0.13	18.51	12.32

Serial #: 8931

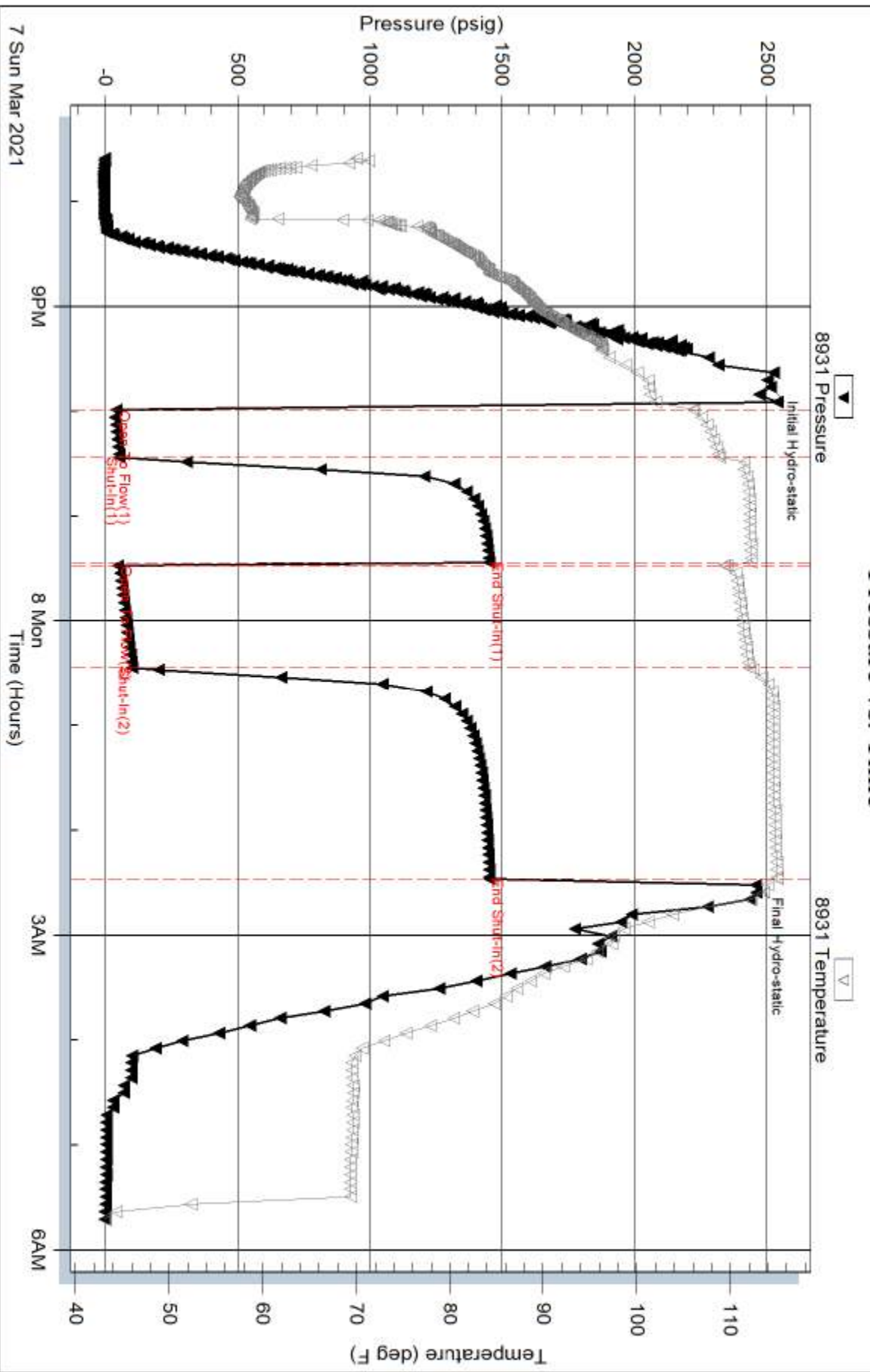
Inside

Vincent Oil Corp

Keough 14-34

DST Test Number: 2

### Pressure vs. Time

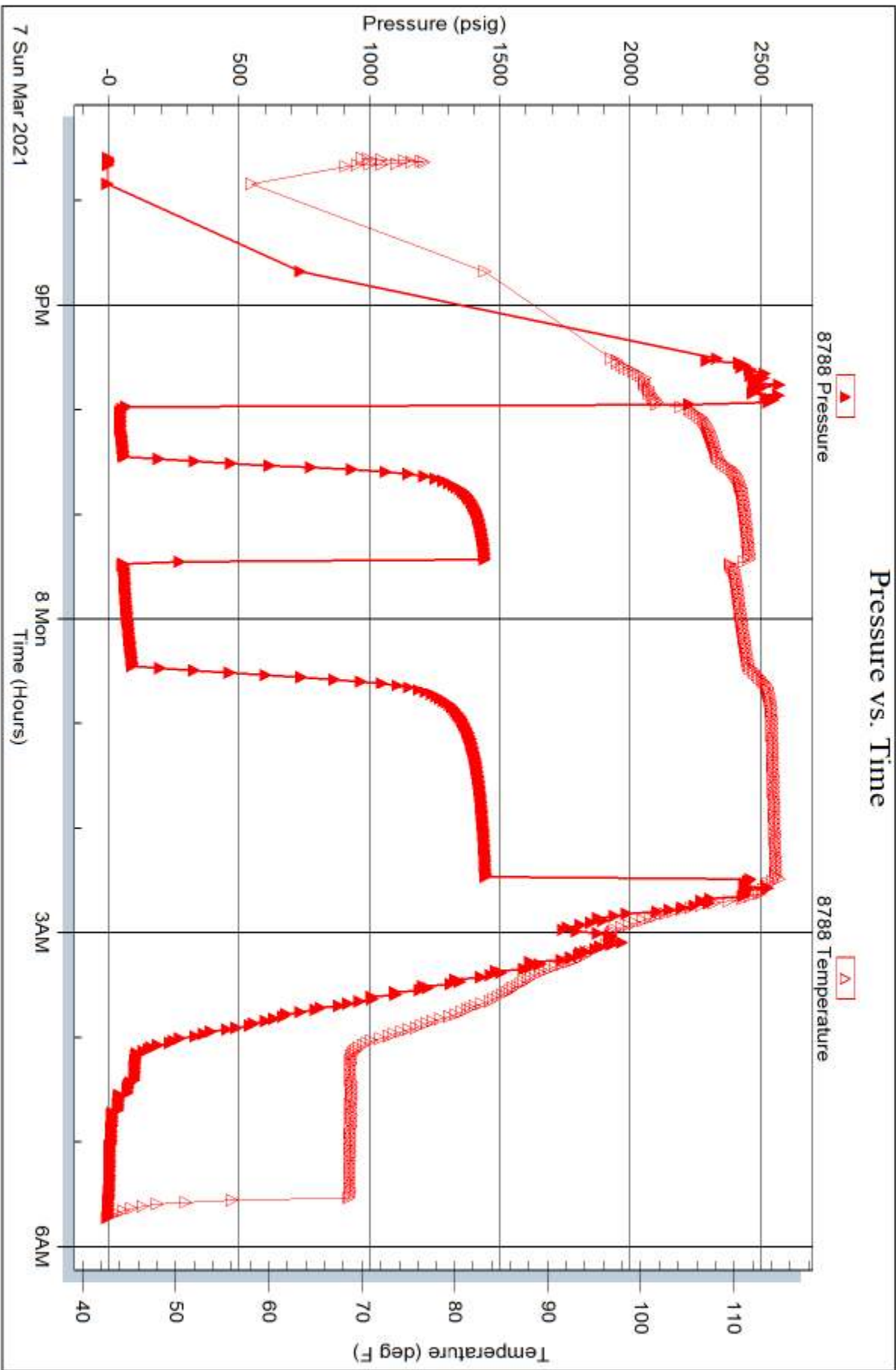


Serial #: 8788

Outside Vincent Oil Corp

Keough 14-34

DST Test Number: 2





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66763 **DST#: 3**  
Test Start: 2021.03.08 @ 15:38:12

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 17:36:42  
Time Test Ended: 00:27:12  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Matt Smith  
Unit No: 68  
Interval: **5263.00 ft (KB) To 5273.00 ft (KB) (TVD)**  
Reference Elevations: 2554.00 ft (KB)  
Total Depth: 5273.00 ft (KB) (TVD) 2542.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

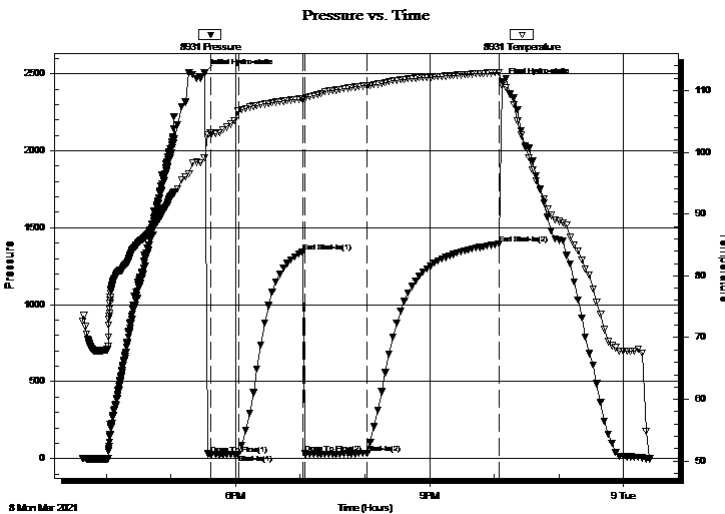
## Serial #: 8931

Inside

Press@RunDepth: 33.61 psig @ 5264.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.03.08 End Date: 2021.03.09 Last Calib.: 2021.03.09  
Start Time: 15:38:17 End Time: 00:27:12 Time On Btm: 2021.03.08 @ 17:30:57  
Time Off Btm: 2021.03.08 @ 22:07:27

TEST COMMENT: IF: Strong Blow . B.O.B. in 8 mins. Built to 32.45".  
IS: No Blow .  
FF: Strong Blow . B.O.B. in 30 sec.  
FS: No Blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2504.14	99.15	Initial Hydro-static
6	26.98	103.11	Open To Flow (1)
32	27.55	106.71	Shut-In(1)
92	1344.56	108.67	End Shut-In(1)
94	31.24	108.56	Open To Flow (2)
152	33.61	110.82	Shut-In(2)
273	1392.72	112.93	End Shut-In(2)
277	2444.88	110.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 20%g 30%o 5%w 45%m	0.84
0.00	G.I.P. 100%g	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
 200 W Douglas Ave #725  
 Wichita, Ks. 67202  
 ATTN: Tom Dungeun

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
 Job Ticket: 66763 **DST#: 3**  
 Test Start: 2021.03.08 @ 15:38:12

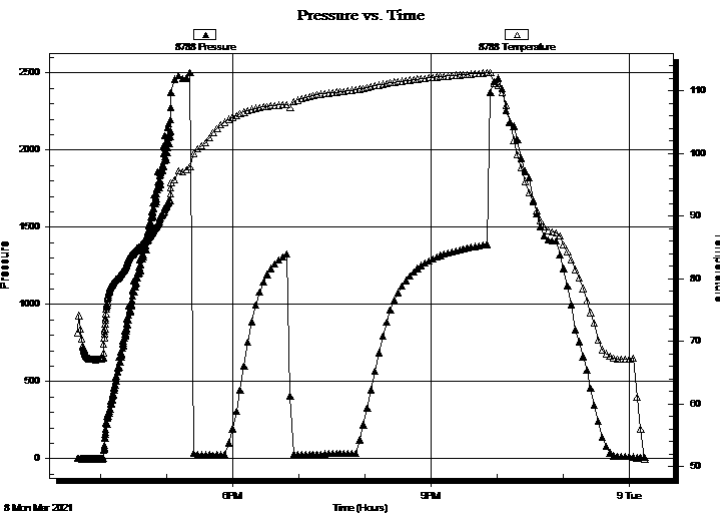
## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 17:36:42  
 Time Test Ended: 00:27:12  
 Interval: **5263.00 ft (KB) To 5273.00 ft (KB) (TVD)**  
 Total Depth: 5273.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: 68  
 Reference Elevations: 2554.00 ft (KB)  
 2542.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 8788 Outside

Press@RunDepth: psig @ 5264.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2021.03.08 End Date: 2021.03.09 Last Calib.: 2021.03.09  
 Start Time: 15:38:50 End Time: 00:16:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 8 mins. Built to 32.45".  
 IS: No Blow .  
 FF: Strong Blow . B.O.B. in 30 sec.  
 FS: No Blow .



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOWCM 20%g 30%o 5%w 45%m	0.84
0.00	G.I.P. 100%g	0.00

\* 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 Corp

**34-28s-23w Ford Co. Ks.**

200 W Douglas Ave #725  
Wichita, Ks. 67202

**Keough 14-34**

Job Ticket: 66763

**DST#: 3**

ATTN: Tom Dungeun

Test Start: 2021.03.08 @ 15:38:12

### 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:

8300 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8300.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GOWCM 20%g 30%o 5%w 45%m	0.842
0.00	G.I.P. 100%g	0.000

Total Length: 60.00 ft      Total Volume: 0.842 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

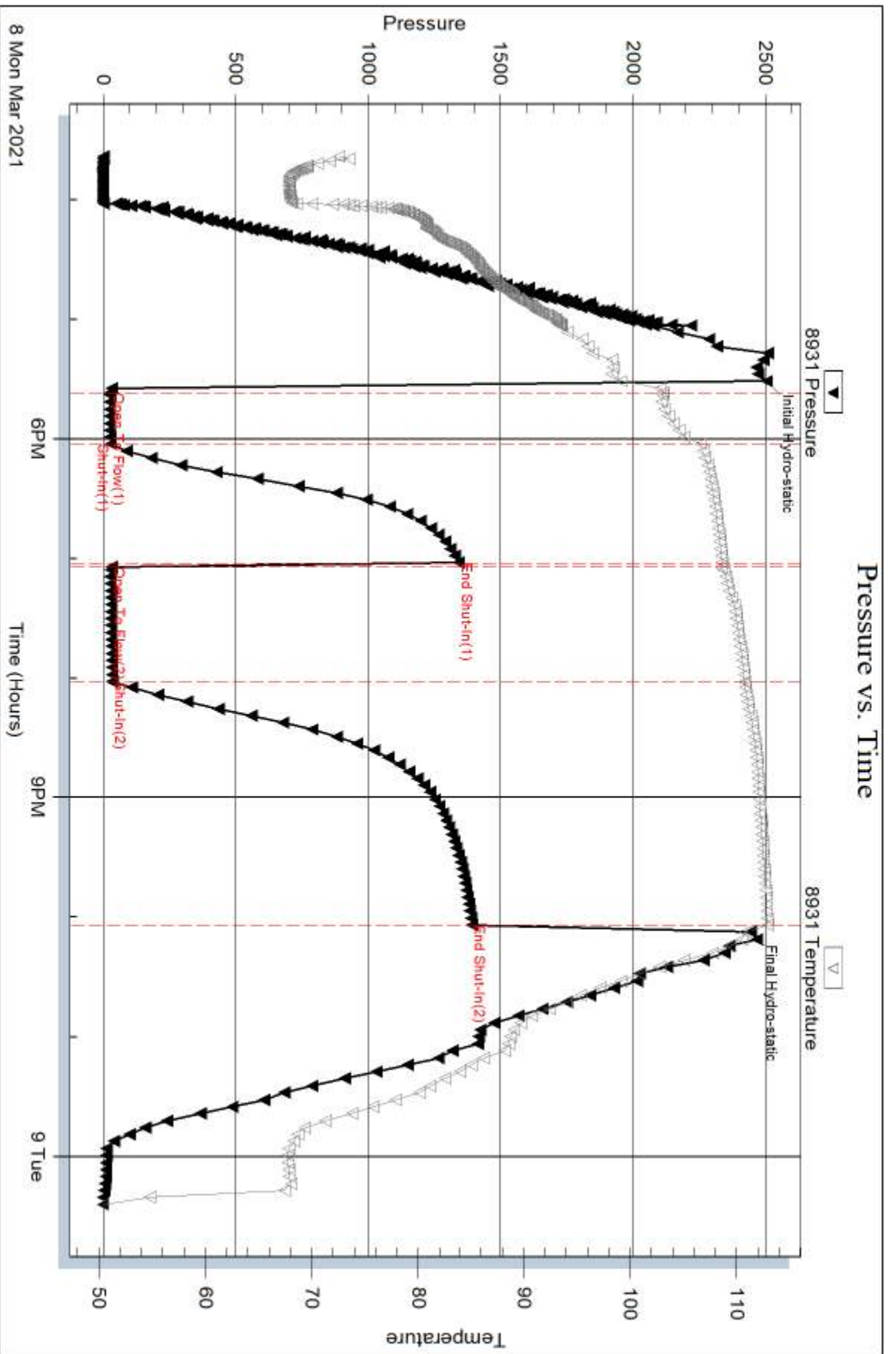
Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: 1568 FT. Of G.I.P.



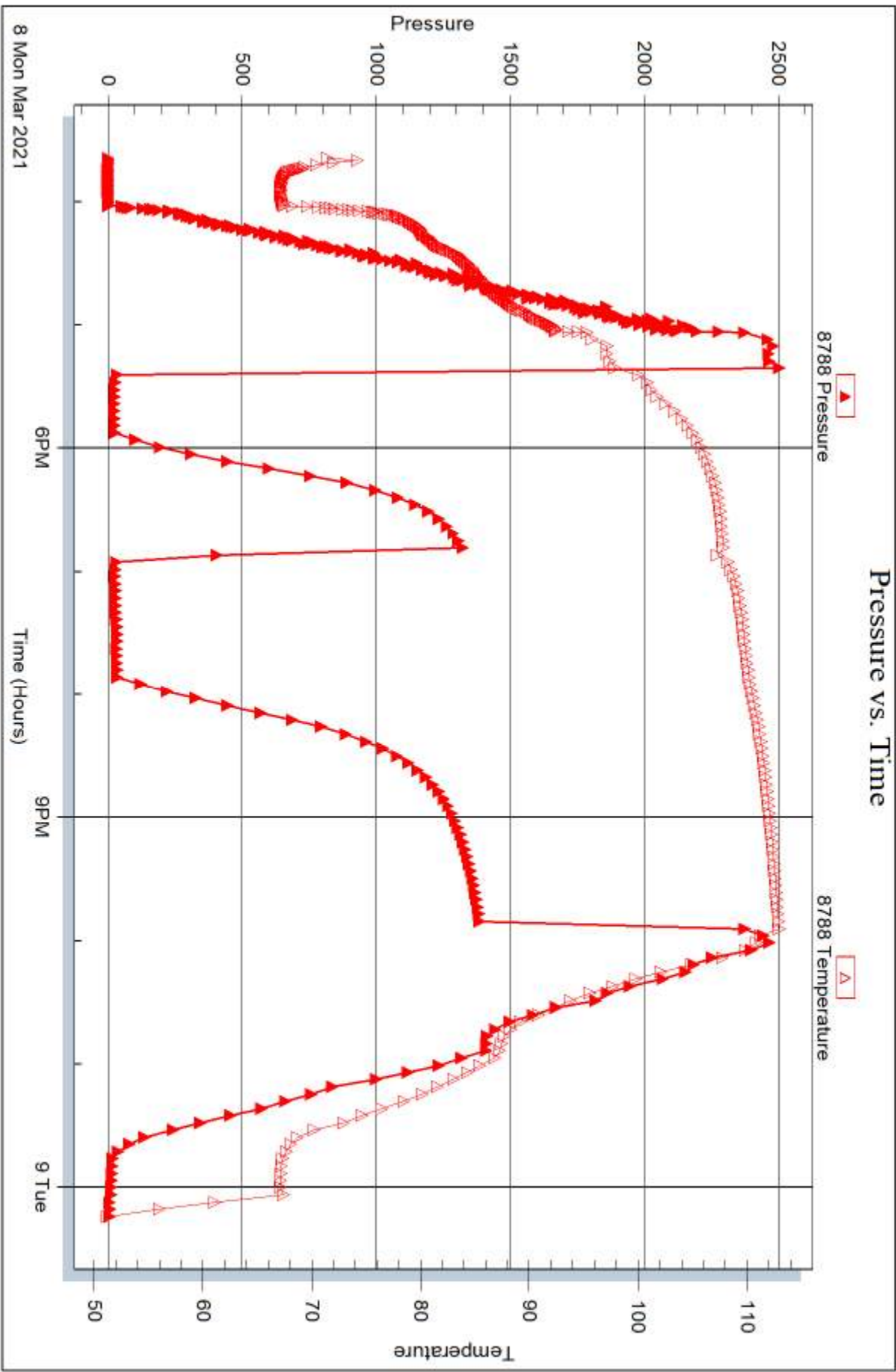


Serial #: 8788

Outside Vincent Oil Corp

Keough 14-34

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66763

Printed: 2021.03.09 @ 02:20:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dudgeon

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66764 **DST#: 4**  
Test Start: 2021.03.09 @ 09:05:32

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 11:04:32 Tester: Matt Smith  
Time Test Ended: 18:13:17 Unit No: 68  
**Interval: 5273.00 ft (KB) To 5288.00 ft (KB) (TVD)** Reference Elevations: 2554.00 ft (KB)  
Total Depth: 5288.00 ft (KB) (TVD) 2542.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

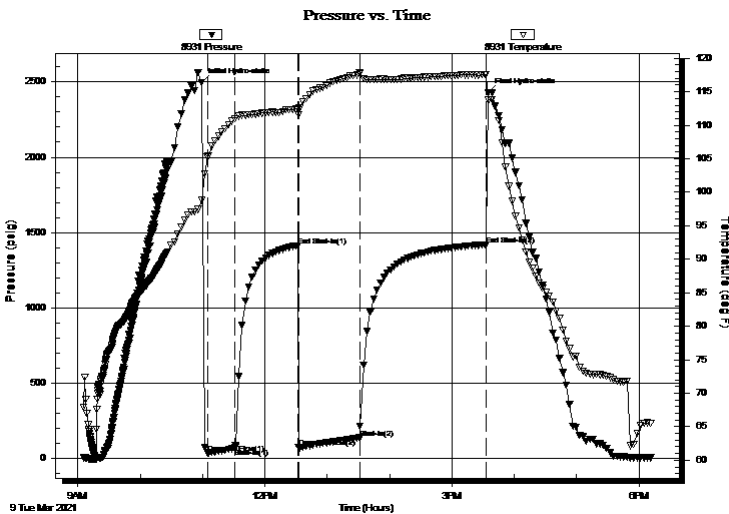
## Serial #: 8931

Inside

Press@RunDepth: 136.70 psig @ 5274.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2021.03.09 End Date: 2021.03.09 Last Calib.: 2021.03.09  
Start Time: 09:05:37 End Time: 18:13:17 Time On Btm: 2021.03.09 @ 10:59:02  
Time Off Btm: 2021.03.09 @ 15:35:17

TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 81.31".  
IS: Weak Blow . Built to 2.00".  
FF: Strong Blow , B.O.B. in 1 1/2 mins. Built to 140.73".  
FS: Strong Blow . Built to 11.05".

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2494.01	98.79	Initial Hydro-static
6	37.05	105.24	Open To Flow (1)
33	70.32	111.00	Shut-In(1)
93	1413.14	112.46	End Shut-In(1)
94	72.97	111.57	Open To Flow (2)
152	136.70	117.89	Shut-In(2)
274	1418.94	117.57	End Shut-In(2)
277	2430.86	113.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
128.00	GV SOMW 1%g 2%o 2%m 95%w	1.80
65.00	GOWCM 20%g 10%o 35%w 35%m	0.91
64.00	GOSWCM 20%g 25%o 5%w 50%m	0.90
20.00	CO 100%o	0.28
0.00	3,116' G.I.P.	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

Vincent Oil Corp  
200 W Douglas Ave #725  
Wichita, Ks. 67202  
ATTN: Tom Dudgeon

**34-28s-23w Ford Co. Ks.**  
**Keough 14-34**  
Job Ticket: 66764      **DST#: 4**  
Test Start: 2021.03.09 @ 09:05:32

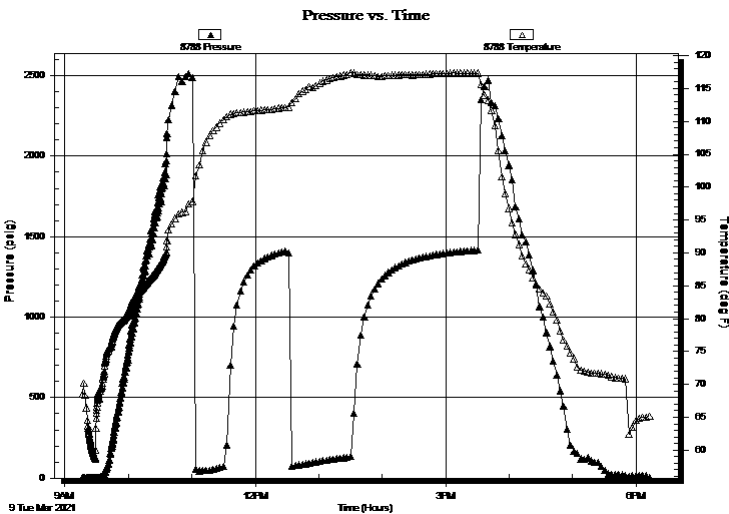
## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 11:04:32  
Time Test Ended: 18:13:17  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Matt Smith  
Unit No: 68  
Interval: **5273.00 ft (KB) To 5288.00 ft (KB) (TVD)**  
Reference Elevations: 2554.00 ft (KB)  
Total Depth: 5288.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 12.00 ft

**Serial #: 8788      Outside**  
Press@RunDepth:      psig @ 5274.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2021.03.09      End Date: 2021.03.09      Last Calib.: 2021.03.09  
Start Time: 09:16:48      End Time: 18:13:28      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 81.31".  
IS: Weak Blow . Built to 2.00".  
FF: Strong Blow , B.O.B. in 1 1/2 mins. Built to 140.73".  
FS: Strong Blow . Built to 11.05".

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
128.00	GV SOMW 1%g 2%o 2%w 95%w	1.80
65.00	GOWCM 20%g 10%o 35%w 35%m	0.91
64.00	GOSWCM 20%g 25%o 5%w 50%m	0.90
20.00	CO 100%o	0.28
0.00	3,116' G.I.P.	0.00

\* 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 Corp

**34-28s-23w Ford Co. Ks.**

200 W Douglas Ave #725  
Wichita, Ks. 67202

**Keough 14-34**

Job Ticket: 66764

**DST#: 4**

ATTN: Tom Dudgeon

Test Start: 2021.03.09 @ 09:05:32

## 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:

32000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
128.00	GVSOMW 1%g 2%o 2%m 95%w	1.796
65.00	GOWCM 20%g 10%o 35%w 35%m	0.912
64.00	GOSWCM 20%g 25%o 5%w 50%m	0.898
20.00	CO 100%o	0.281
0.00	3,116' G.I.P.	0.000

Total Length: 277.00 ft      Total Volume: 3.887 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: None

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity. 39 @ 70 Degrees = 38 @ 60 Degrees. Corrected.

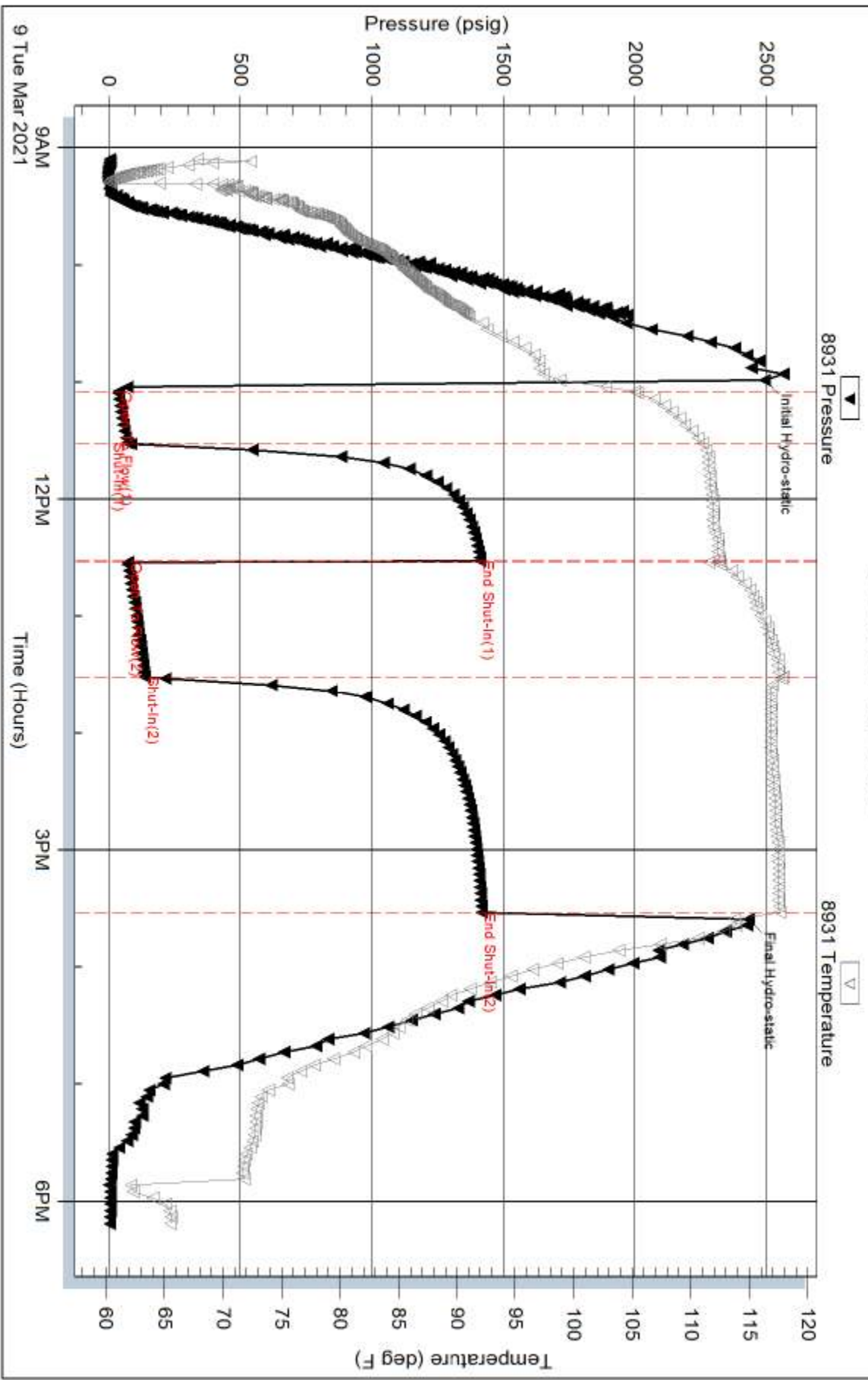
Serial #: 8931

Inside Vincent Oil Corp

Keough 14-34

DST Test Number: 4

### Pressure vs. Time

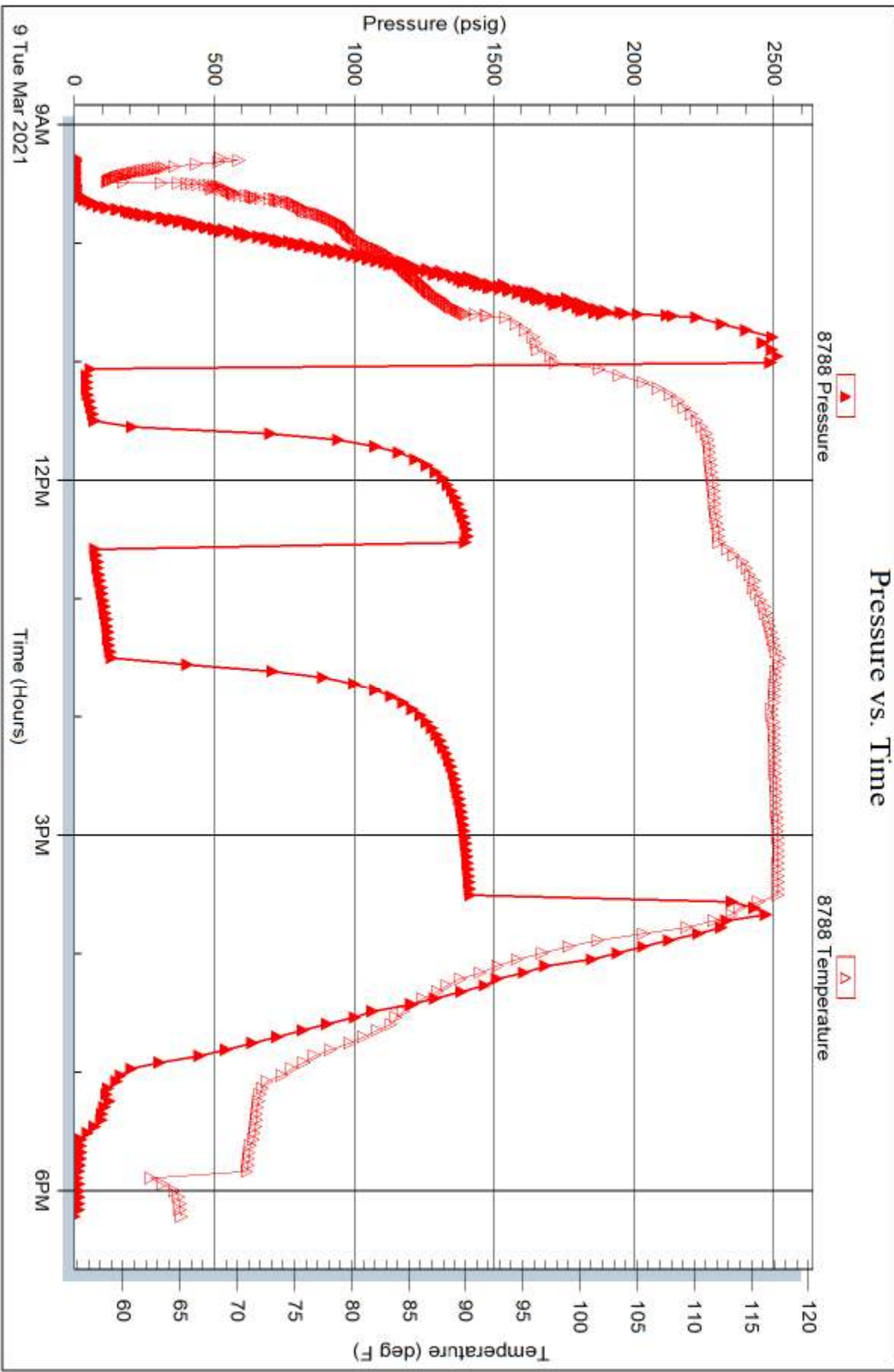


Serial #: 8788

Outside Vincent Oil Corp

Keough 14-34

DST Test Number: 4





# VINCENT OIL CORPORATION



Scale 1:240 Imperial

Well Name: KEOUGH 14-34  
Surface Location: 460' FSL 1440' FWL 34-28S-23W  
Bottom Location:  
API: 15-057-21049-0000  
License Number: 5004  
Spud Date: 2/26/2021 Time: 10:30 PM  
Region: MID CON  
Drilling Completed: 3/9/2021 Time: 11:45 PM  
Surface Coordinates:  
Bottom Hole Coordinates:  
Ground Elevation: 2542.00ft  
K.B. Elevation: 2554.00ft  
Logged Interval: 4250.00ft To: 5340.00ft  
Total Depth: 5340.00ft  
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: KEOUGH 14-34  
Location: 460' FSL 1440' FWL 34-28S-23W  
API: 15-057-21049-0000  
Pool: DEVELOPMENT  
State: KANSAS  
Field: MULBERRY CREEK  
Country: USA

## CONTRACTOR

Contractor: DUKE DRILLING CO., INC.  
Rig #: 1  
Rig Type: MUD ROTARY  
Spud Date: 2/26/2021 Time: 10:30 PM  
TD Date: 3/9/2021 Time: 11:45 PM  
Rig Release: 3/11/2021 Time: 12:00 PM

## LOGGED BY

Company: VINCENT OIL CORPORATION  
Address:

Phone Nbr: 316 262 3573



**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -99.8268173  
 Latitude: 37.558642  
 N/S Co-ord:  
 E/W Co-ord:

**ELEVATIONS**

K.B. Elevation: 2554.00ft      Ground Elevation: 2542.00ft  
 K.B. to Ground: 12.00ft

**TOTAL DEPTH**

Measurement Type:	Measurement Depth:	TVD:
RTD	5340.00	5341.00
LTD	5341.00	5341.00

**DRILLING FLUID SUMMARY**

Type	Date	From Depth	To Depth
CHEMICAL MUD	3/3/2021	3780.00ft	5340.00ft

**OPEN HOLE LOGS**

Logging Company: ELI  
 Logging Engineer: JASON CAPPELLUCCI  
 Truck #:  
 Logging Date: 3/10/2021      Time Spent: 6  
 # Logs Run: 4      # Logs Run Successful: 4

**LOGS RUN**

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5341.00ft	3.00		1
NDE/NEU/PE	4300.00ft	5341.00ft	3.00		1
MICRO	4300.00ft	5341.00ft	3.00		2
SONIC	0.00ft	5341.00ft	3.00		2

**LOGGING OPERATION SUMMARY**

Date	From	To	Description Of Operation
3/11/2021	0.00ft	5341.00ft	LOGS RAN SUCCESSFULLY

**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	700 ft	23#	17	2/27/2021 11:15 PM
Int Casing					
Prod Casing	4.5 in		11.6#	125	3/10/2021 11:30 PM

**CASING SEQUENCE**

Type	Hole Size	Casing Size	At
SURFACE	12.25 in	8.63	700.00 ft
PRODUCTION	7.88 in	4.50	5339.00 ft

**NOTES**

**SAMPLE DESCRIPTIONS BASED ON DUNHAMS CLASSIFICATION SYSTEM**

**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

**REFERENCE WELLS**  
**A**  
 Vincent Oil Corp.  
 Keough #12-34  
 330' FSL & 2475' FWL  
 34-28-23W

**B**  
 Vincent Oil Corp  
 Perkins #3-3  
 358' FNL & 1373 FWL  
 3-29-23W

3/4°  
  
3/4°  
3/4°  
1°  
1°  
1°  
3/4°  
3/4°

**STRAIGHT HOLE SURVEY**  
**Degree**      **Depth**  
 704'  
 1204'  
 1708'  
 2274'  
 2776'  
 3247'  
 3782'  
 5241'

**SAMPLE TOPS**

Heebner Shale      4371 (-1817)  
 Brown Limestone      4509 (-1955)  
 Lansing-Kansas City      4522 (-1968)  
 Stark Shale      4857 (-2303)  
 Hushpuckney Shale      4897 (-2343)  
 Base Kansas City      4973 (-2419)  
 Pawnee      5064 (-2510)  
 Cherokee Shale      5115 (-2561)  
 Base Penn Limestone      5212 (-2658)  
 Mississippian      5237 (-2683)  
 RTD / LTD      5340 (-2786)

**REF. WELL**

**A**      **B**  
 -4      +5  
 Flt      +6  
 -3      +4  
 +2      Flt  
 +4      -1  
 -1      -2  
 +5      +4  
 +3      +3  
 +5      +3  
 -6      +5

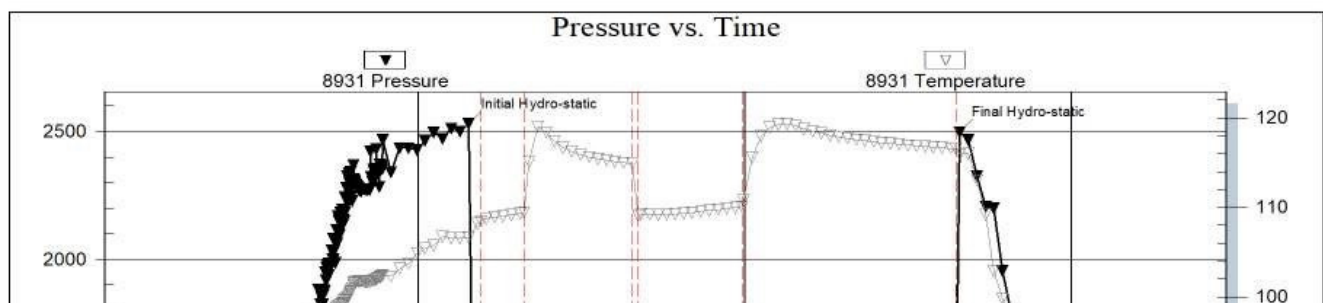
**ELECTRIC LOG REF. WELL**

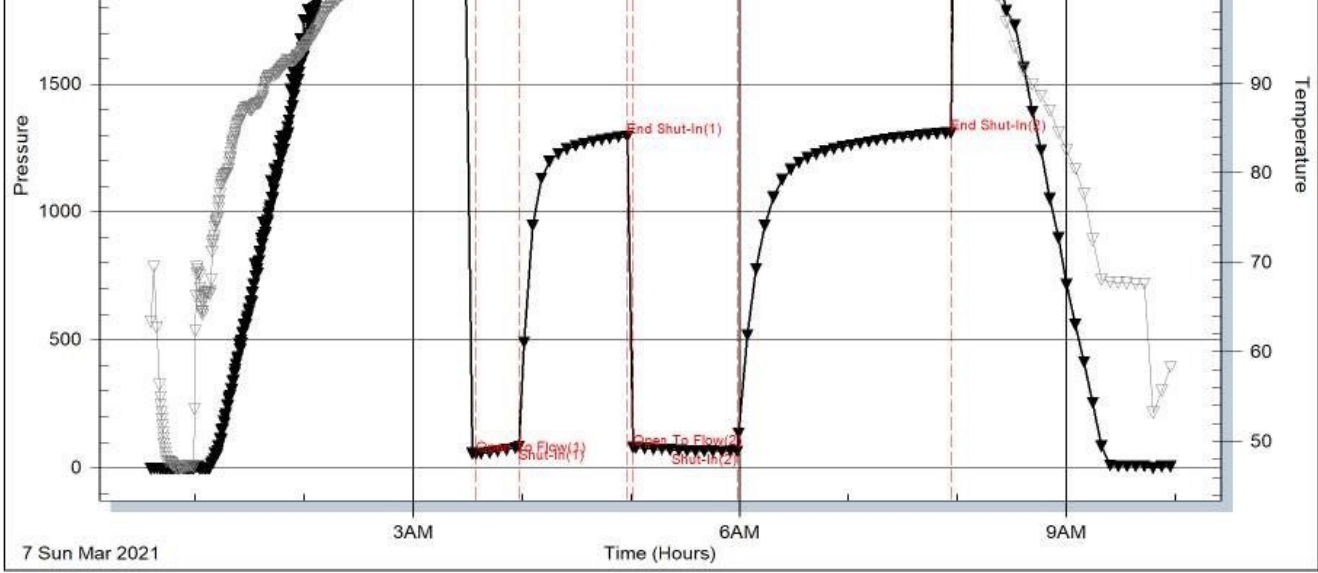
**A**      **B**  
 4371 (-1817)      -4      +5  
 4509 (-1955)      Flt      +6  
 4520 (-1966)      -1      +6  
 4855 (-2301)      +4      +2  
 4896 (-2342)      +5      Flt  
 4972 (-2419)      -1      -2  
 4973 (-2419)      -1      -2  
 5114 (-2560)      +4      +4  
 5211 (-2657)      +6      +4  
 5237 (-2683)      -6      +5  
 5343 (-2789)

**2/26/2021** Moved in rotary tools and rigged up. Drilled the Rathole & the Mousehole, Spud well in at 10:30 PM  
 2/26/2021. Drilling 12.25" surface hole.  
**2/27/2021** At 510', drilling 12.25" surface hole. Drilled surface hole to 704', CTCH, ran short trip, CTCH, TOO H with  
 bit. Rigged up casing crew and ran 17 joints of new 8 5/8", 23# surface casing. Set at 700' and cemented  
 with 125 sx MDC (3% CC & 1/4# Flo-seal/sx) and 175 sx of Common (4% Gel, 3% CC & 1/4# Flo-seal/sx).  
 Plug was down at 3:15 PM 2/27/2021. WOC. Drilled out from under surface casing at 11:15 PM with 7 7/8"  
 bit, drilling ahead.  
**2/28/2021** At 1101', drilling ahead.  
**3/1/2021** At 2180', drilling ahead.  
**3/2/2021** At 3026', drilling ahead.  
**3/3/2021** At 3610', drilling ahead, displaced mud system at 3782'  
**3/4/2021** At 4260', drilling ahead  
**3/5/2021** At 4780', drilling ahead, Ran short trip at 5085'  
**3/6/2021** At 5095', drilling ahead, drilled to 5241', Preparing for DST #1 5187' to 5241' (Conglomerate).  
**3/7/2020** At 5241, Completing DST #1, TOO H with DST #1  
 \*(Pipe strap 1.89' Long to the Board)  
 Drilled ahead to 5263', CFS, Preparing for DST #2 5246' - 5263' (Mississippian)  
**3/8/2021** At 5263' Tripping back in hole with bit following DST #2  
 Tripped in hole with bit, CTCH, drilled to 5273, CFS. Preparing for DST #3 5263' to 5273'  
 (Mississippian).  
**3/9/2021** At 5288' Tripping out of the hole for DST #4 5273' to 5288' (Mississippian)  
 Tripped back in hole with bit, drilled ahead to RTD at 5340' . Reached RTD at 11.45 PM 3/9/2021.  
 CFS and CTCH. At 1:30 AM, Tripping out of the hole to run electric logs.  
**3/10/2021** At 5340', running electric logs (DIL, Density - Neutron, Micro-log, and Sonic). Found LTD at 5343',  
 Preparing to TIH with bit prior to LDDP & DC. Nipped down BOP. Ran 125 joints of new 4.5", 11.6#  
 production casing. with an 18' shoe joint and set at 5339. Circulated 1 hr and then plugged the rathole and the  
 mouse hole. Cemented production casing with 175 sx of Quality Pro-C and displaced with 82 bbls of 2%  
 KCl water. Plug was down at 11:30 PM 3/10/2021. Set casing slips and cleared the pits. Released the rig at 1:30  
 AM 8/11/2021.

**DST #1**

Serial #: 8931      Inside      Vincent Oil Corp      Keough #14-34      DST Test Number: 1





### DST #2

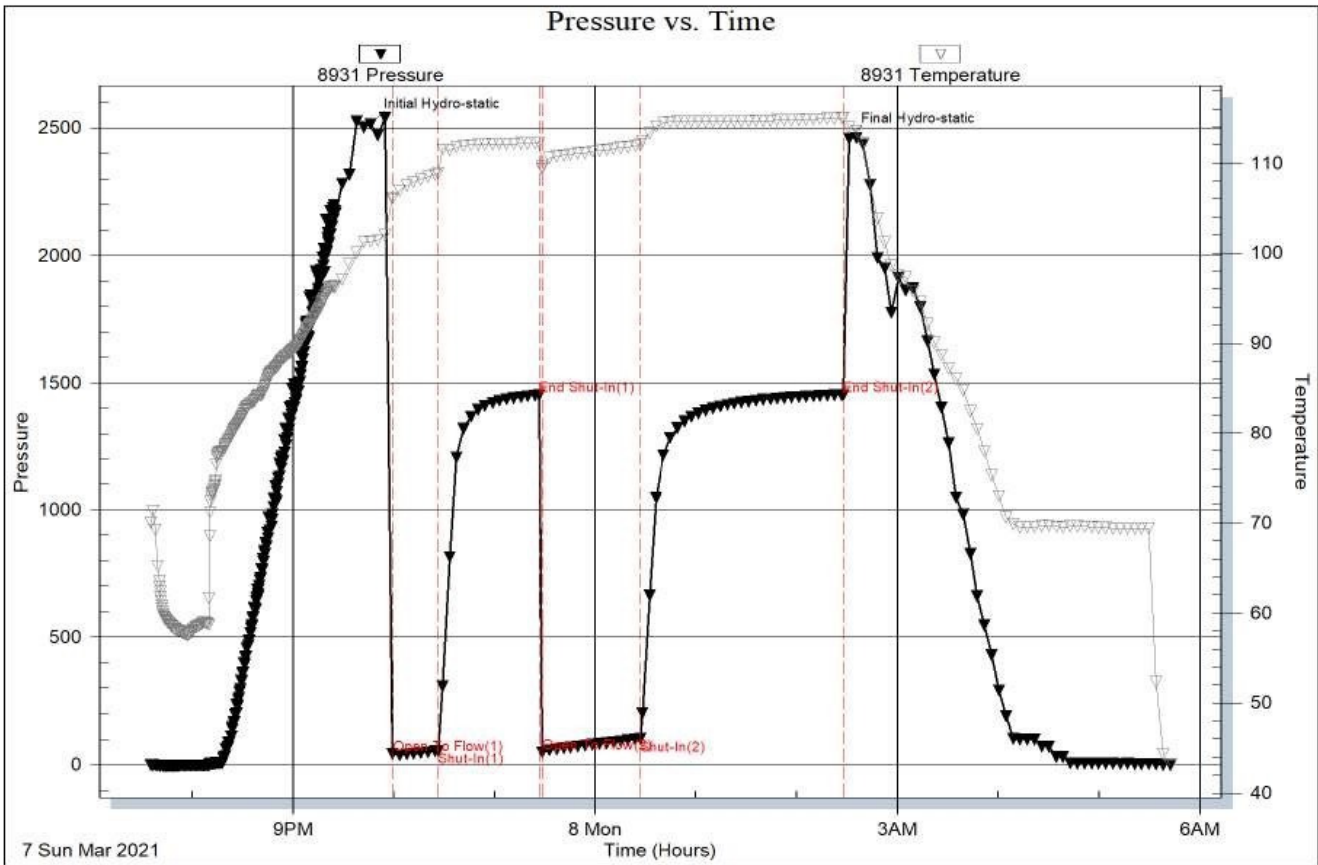
Serial #: 8931

Inside

Vincent Oil Corp

Keough #14-34

DST Test Number: 2



# DST #3

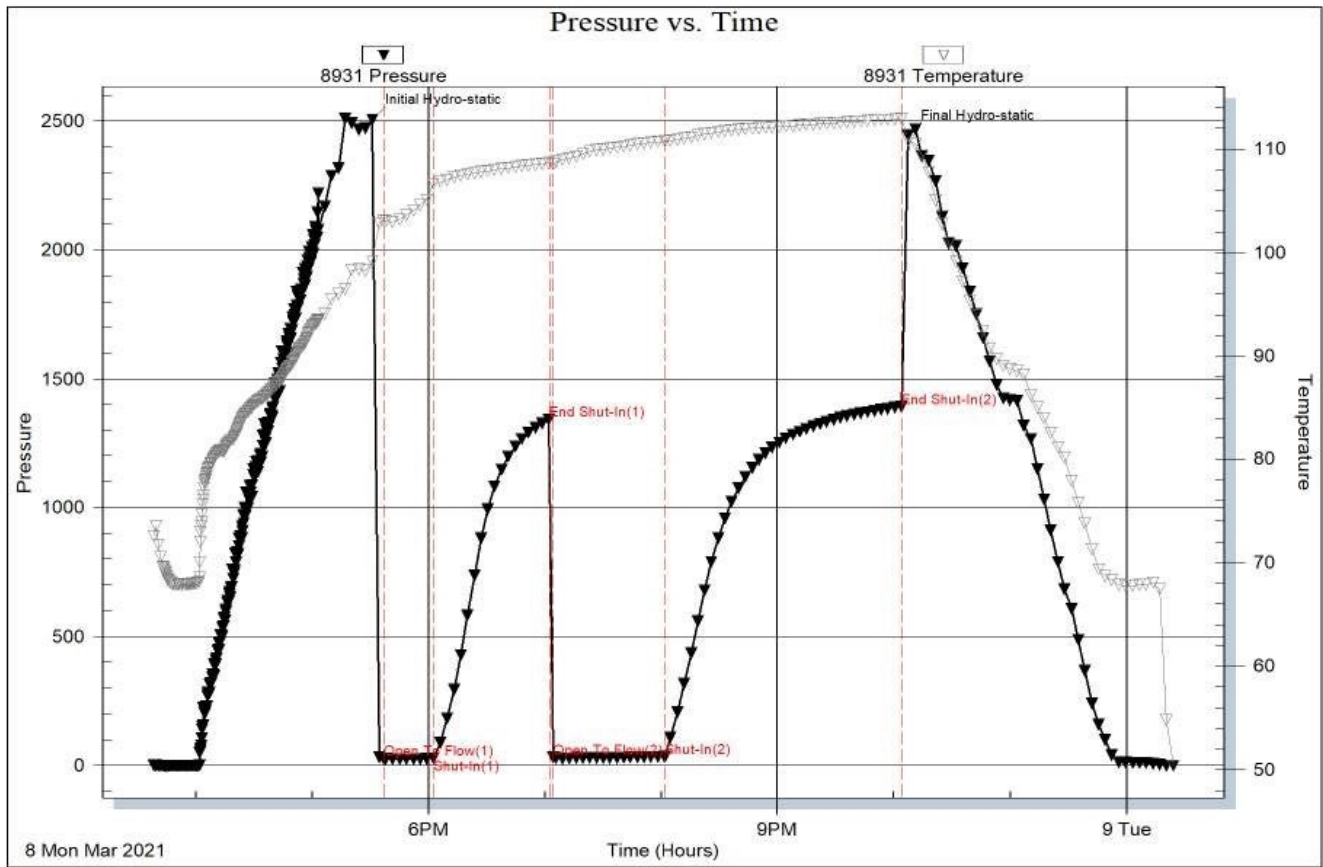
Serial #: 8931

Inside

Vincent Oil Corp

Keough #14-34

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66763

Printed: 2021.03.12 @ 11:14:17

# DST #4

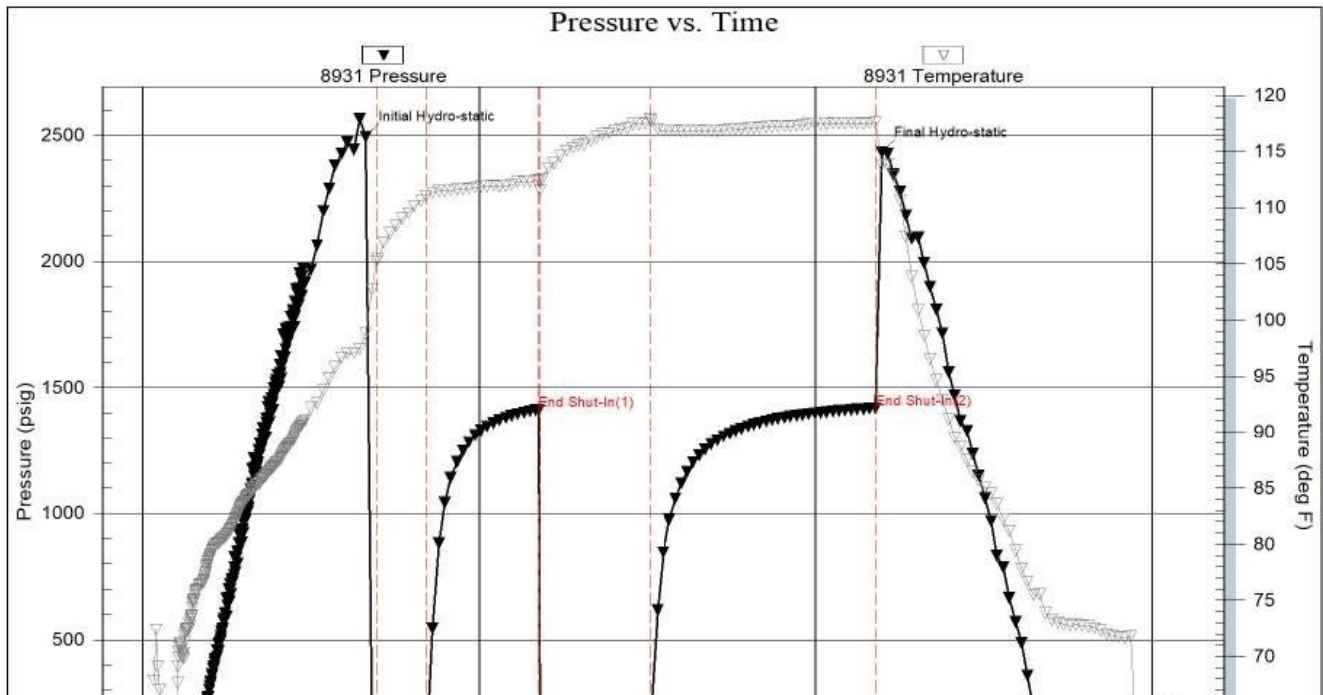
Serial #: 8931

Inside

Vincent Oil Corp

Keough #14-34

DST Test Number: 4





Trilobite Testing, Inc

Ref. No: 66764

Printed: 2021.03.12 @ 11:13:49

### ROCK TYPES



### ACCESSORIES

#### MINERAL

- Argillaceous
- Carbonaceous Flakes
- ▲ Chert, dark
- ∩ Glauconite
- Heavy, dark minerals
- P Pyrite
- Sandy
- Silty
- Detrital dolomite
- ∕ Euhed rhombs of dol or
- ∞ Nodule
- △ Chert White

#### FOSSIL

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

#### TEXTURE

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

#### MISC

- ∩ Veins

### OTHER SYMBOLS

#### POROSITY TYPE

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

#### OIL SHOWS

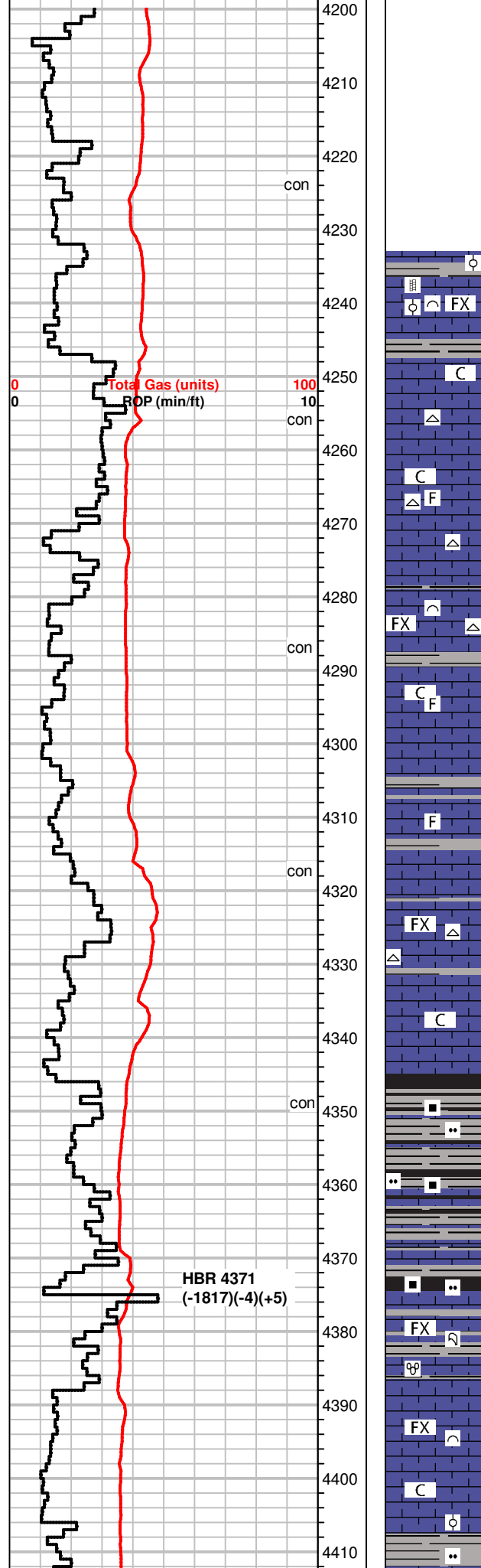
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

#### INTERVALS

- Core
- DST

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

Curve Track #01		Depth   Intervals	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
Total Gas (units)	ROP (min/ft)						
0	0	100					
1:240 Imperial							
Total Gas (units)		100					
ROP (min/ft)		10					
		4160					
		4170					
		4180					
		4190					
						Geologist on location @ 9:15 AM	



WS, crm to off wht, f-xln, m-gr oolitic pcs, firm to friable, calcite veins rare, scatt SH, brn, gray, green

WS-MS, crm to off wht, A.A., chalky, soft pcs, rare brn, m-xln, dense pcs, some fossilif., forams, SH, green to gray

Inc. in SH, gray to dk. gray, some silty, firm, limey in pt., MS-WS, crm to lt. tan, vf- to m-xln, fossilif, some pcs cherty, firm to friable, NS

SH, blk to grays, MS-WS, gray to crm, vf-xln, dense to chalky in pt., fossil scatt., rare wht to gray Chert

MS, crm to off wht, lt. gray, f-xln, dense, some firm, fossilif, some pcs chalky in pt., Chert, wht, fossils, SH, blk rare, grays

MS-WS, gray to crm, f-xln to dense, some pcs friable, gritty, fossilif pcs scatt, NS, rare SH, gray

MS-WS, crm to lt. gray, f-xln to m-xln, dense to chalky pcs, fossilif., Cherty frgmnts, wht, SH, blk, grays, red

MS-WS, tan to crm, some scatt lt. gray, A.A., most gritty, vf-xln, hard to firm, fossilif., calcite, SH, blk to gray

SH, gray to blk, withrd, some yellow, red pcs, MS-WS, brn to tan, some crm, vf-xln, gritty, fossils, friable, some pcs chalky, NS

WS-MS, gray to brn, tan, f-xln, fossils, hard to friable pcs, some dense, fossils, gritty in pt., Chert, wht, SH, grays, platy, blk sli. carb/silty pcs

MS-WS, some pcs A.A., crm, f-xln to mic-xln, dense, some chalky, fossils, SH, gray to blk, green, carb/silty

Influx SH, blk, carb, gassy

SH, blk to dk .gray, gassy, carb., some MS-WS, off wht, friable, chalky, fossils/fn-gr oolitic pcs scatt.

MS, off wht to crm, f-xln to m-xln, dense to friable, fossils, some pcs Cherty, wht, scatt chalky pcs, lesser SH, blk, A.A.

SH, blk to dk. gray, gassy, carb., MS, crm to tan, f- to m-xln, oolitic/fossilif., waxy looking, hard to firm, dull fluor

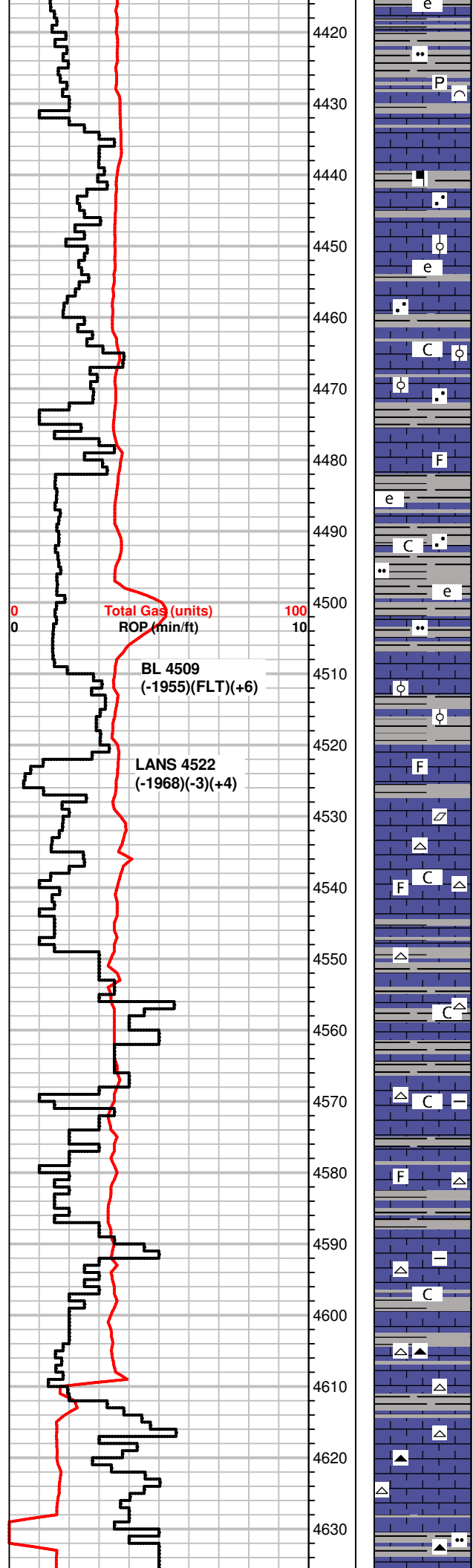
MS-WS, crm to off wht, firm to hard, f-xln, dense to gritty, fossils (coral, forams) frgmnts, SH, gray to blk

WS off wht to lt. gray, frm to v. hard, dense, some chalky, dull/earthy, fossilif., some SH, blk to green

WS-MS, tan to crm, firm to dense, some soft/chalky pcs, earthy in pt., some suc. looking, fossils/gritty pcs, vf-gr oolitic pcs, NS

Shale gas 4317-4340

+4 UGK, shale gas



MS, crm, to lt. tan, dense, earthy to chalky, firm to hard, gritty pcs scatt, some fossils, NS

SH, green to blk, grays, firm, gassy blocky to platy, dull MS-WS, brn to tan, A.A., some pcs gritty, vf-xln, dense, earthy, pyrite, fossils/vf-gr oolitic, NS

MS-WS, crm to off wht, tan, chalky to waxy looking, f-xln pcs, fossilif., hard to brittle, mineral specs, sandy pcs, SH, gray to green

WS-MS, brn to tan, some pcs A.A., mic-xln, dense, fossilif., sandy in pt., earthy, firm, NS

SH, blk to green, sandy, pyrite  
WS-MS, gray to crm, brn, massive to f-xln, dense, some pcs chalky, soft, fossils, m-gr oolitic pcs scatt

MS-WS, crm to tan, f-xln to chalky, firm, scatt fossils, still sandy, SH, blk, green, gray, limey pcs

SH, gray, green, brn, blk, MS, crm to tan, A.A., earthy to waxy, soft, v-f gr. oolitic pcs, dense pcs rare, NS

SH, gray to brn, waxy, soft, MS-WS, brn to crm, f-xln to chalky, firm to brittle, scatt fossils, earthy, some dense, NS

SH, blk to gray, green, scatt WS-PS, crm to brn, m-gr oolitic pcs in dense calc mtrx, chalky in pt. most shaly

scatt SH, A.A., MS, crm to tan, grays, shaly in pt., gritty to earthy, f-xln, chalky pcs, fossils, some pcs mottled, NS

MS, brn, f-xln to massive, dense, some fossils, crm, f-xln chalky to earthy, scatt fossils,

MS, off wht to crm, gritty to chalky, some pcs m-xln, hard to soft, some fossils, clacite, NS

MS, off whte to crm, chalky, f-xln, soft to firm, fossils, Chert, wht

MS, A.A., some pcs lt. gray, earthy to chalky, A.A., firm, NS, dull fluor, some SH, green to gray

MS, crm to lt. gray, brn, mottled, earthy to chalky in pt., f-xln, micro fossils, hard to firm, NS, Chert, wht, Sh, green to grays

WS-MS, brn to crm, hard, f-xln, some chalky pcs, soft, m-gr oolitic/moldic pcs, fossil frgmts, Chert, wht, SH, green, gray, some red/brn pcs

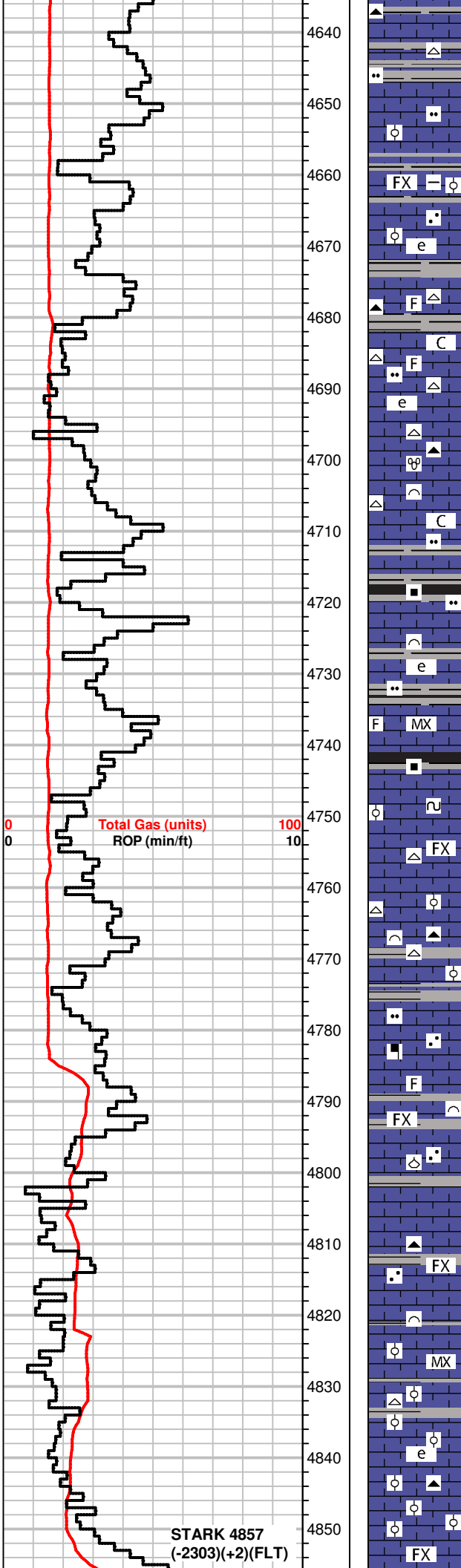
MS, tan to crm, dense, earthy, hard to frim, f-xln, some fossils scatt, rare m-gr oolitic pcs, Chert, wht

MS-WS, gray to crm, tan, firm to hard, gritty/earthy txt, sandy pcs, some fossils, NS

SH, gray, platy, MS-WS, crm to off wht, chalky, m-xln pcs, soft to hard/dense, fossilif, calcite, Chert, gray, wht

Sli inc in SH, grays, platy, MS, crm to tan, vf to f-xln, dense, firm, gritty in pt, some fossils, Chert, wht, gray, fossils

MS, gray to brn, crm, f-xln, earthy, dense to firm, shaly fossilif, Chert, gray, some SH, grays, silty pcs



MS, gray to crm, f-xln earthy to sli. chalky, firm, fossils, Chert, tan SH, blk to brn, silty

WS-MS, off wht to crm, tan, f-xln, waxy, sub oolitic to oolitic pcs, m-gr, firm to hard, SH, grays, platy, green, some pcs striated

WS-MS, crm to gray, off wht, chalky, f-xln, soft, sub oolitic, fossilif, shaly in pt.

SH, gray, red, green, MS, crm to tan, vf-xln, earthy, firm, some sandy pcs, rare fossils, NS

SH, dk. gray to grays, green, influx platy pcs, MS-WS, crm to tan, f-xln, dense to firm, micro fossils, some earthy pcs A.A., Chert, wht, brn, fossils

some SH, dk. gray to gray, MS, tan to crm, dense, mic-xln to f-xln, hard, earthy to silty txt, some chalky, fossils, NS, Chert, wht

MS-WS, crm to tan, f-xln to earthy, firm to brittle, some dense, fossils, Chert, wht, gray, fossils, SH, gray to green

WS-MS, off wht to crm, f-xln to m-xln, gritty, micro fossils, chalky in pt, NS, dull fluor, Chert, wht, fossils, SH, gray, green, silty,

influx SH, blk, grays, silty to carb

MS-WS, crm to lt. tan, earthy/chalky, firm to dense, rare fossils SH, gray to green, blk, some silty

MS, crm to tan, f- to mic-xln, hard, dense, fossils, NS, some SH, gray/brn, sandy pcs

WS-MS, off wht to crm, m-xln, some pcs f-xln, firm to soft, chalky, sub oolitic, fossilif pcs, some dense, glauc.

WS-MS, crm to tan, f-xln, A.A., dense, Chert, wht scatt SH, gray to green

MS-WS, tan to crm, off wht, f- to m-xln, firm/brittle, sub oolitic/fossilif pcs, chalky in pt., Chert, brn wht, rare SH, blk to gray, silty, sandy

rare SH, grays, striated MS, gray to crm, A.A., most dense, fossils, mineral specs, sandy in pt., NS

MS-WS, crm to tan, brn, massive/f-xln to earthy, some silty pcs, firm to dense, fossilif. to barren, chalky in pt., NS, rare SH, green to brn, sli. sandy

MS-WS, A.A., crm to brn, f-xln, massive, some pcs chalky, dense to soft, NS, some SH, gray

MS, tan to crm, chalky, f-xln, soft, girty pcs, rare fossils, sandy pcs, Chert blk, fossils

WS-MS, crm to tan, m-xln, dense to firm, sub oolitic, some pcs sandy, fossilif, scatt massive pcs, dense, dull fluor NS, Chert, brn, wht, fossils, some SH, brn

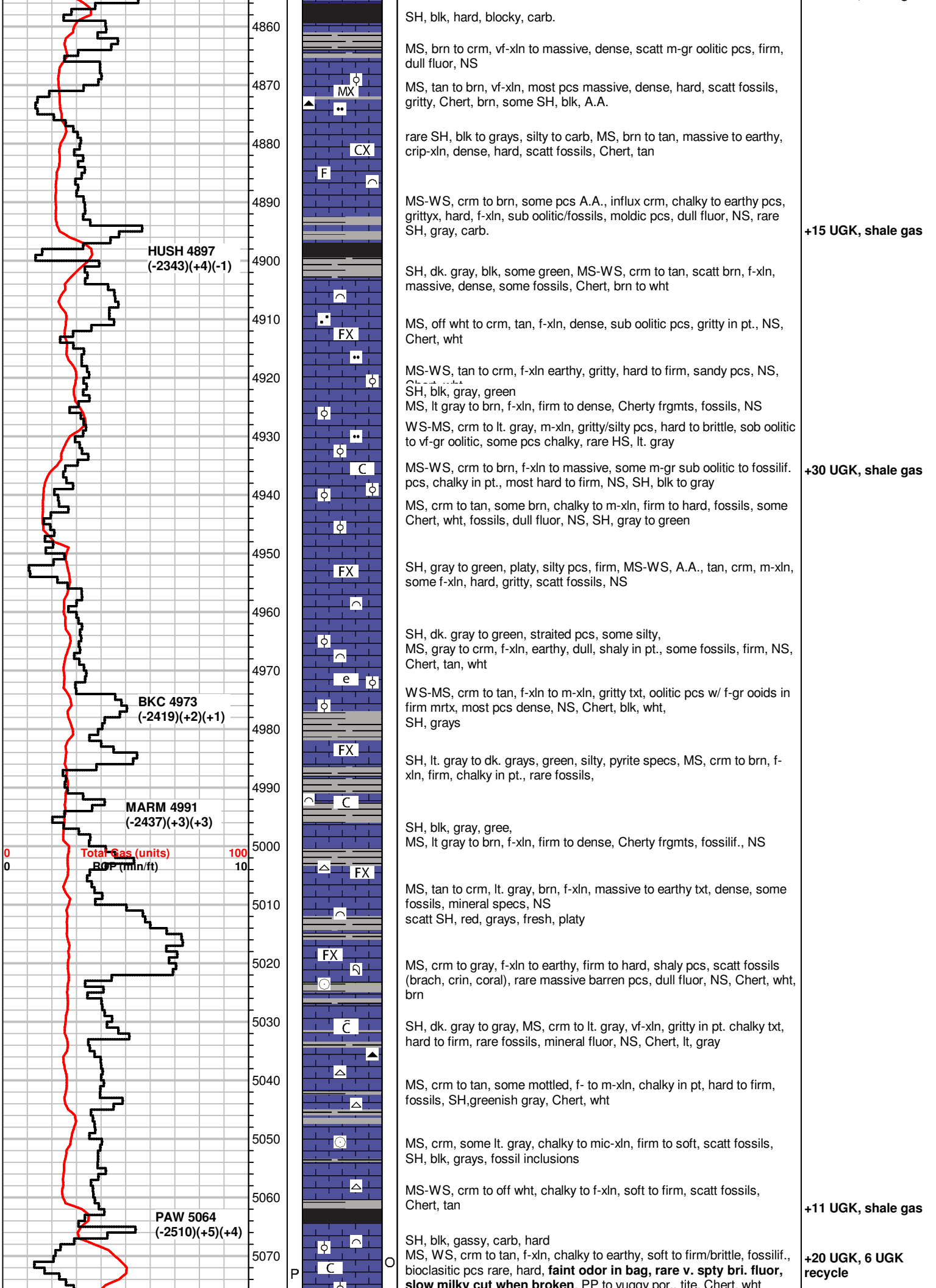
MS-WS, A.A., f-xln, dense to chalky pcs, firm, minerals, sli. sandy in pt., Chert, tan, fossils, SH, grays

WS-MS, crm to tan, f-xln, earthy, firm to hard, fossils, f-gr oolitic/moldic pcs chalky in pt, NS, Chert, tan

WS-PS, tan to crm, off white chalky pcs rare, most f-xln to m-gr oolitic/moldic, firm to hard, scatt brittle, minerals, some sandy pcs, SH, brn to gray

+10 UGK, shale gas





SH, blk, hard, blocky, carb.

MS, brn to crm, vf-xln to massive, dense, scatt m-gr oolitic pcs, firm, dull fluor, NS

MS, tan to brn, vf-xln, most pcs massive, dense, hard, scatt fossils, gritty, Chert, brn, some SH, blk, A.A.

rare SH, blk to grays, silty to carb, MS, brn to tan, massive to earthy, crip-xln, dense, hard, scatt fossils, Chert, tan

MS-WS, crm to brn, some pcs A.A., influx crm, chalky to earthy pcs, grittyx, hard, f-xln, sub oolitic/fossils, moldic pcs, dull fluor, NS, rare SH, gray, carb.

+15 UGK, shale gas

SH, dk. gray, blk, some green, MS-WS, crm to tan, scatt brn, f-xln, massive, dense, some fossils, Chert, brn to wht

MS, off wht to crm, tan, f-xln, dense, sub oolitic pcs, gritty in pt., NS, Chert, wht

MS-WS, tan to crm, f-xln earthy, gritty, hard to firm, sandy pcs, NS, SH, blk, gray, green

MS, lt gray to brn, f-xln, firm to dense, Cherty frgmts, fossils, NS

WS-MS, crm to lt. gray, m-xln, gritty/silty pcs, hard to brittle, sob oolitic to vf-gr oolitic, some pcs chalky, rare HS, lt. gray

MS-WS, crm to brn, f-xln to massive, some m-gr sub oolitic to fossilif. pcs, chalky in pt., most hard to firm, NS, SH, blk to gray

+30 UGK, shale gas

MS, crm to tan, some brn, chalky to m-xln, firm to hard, fossils, some Chert, wht, fossils, dull fluor, NS, SH, gray to green

SH, gray to green, platy, silty pcs, firm, MS-WS, A.A., tan, crm, m-xln, some f-xln, hard, gritty, scatt fossils, NS

SH, dk. gray to green, straited pcs, some silty, MS, gray to crm, f-xln, earthy, dull, shaly in pt., some fossils, firm, NS, Chert, tan, wht

WS-MS, crm to tan, f-xln to m-xln, gritty txt, oolitic pcs w/ f-gr ooids in firm mrtx, most pcs dense, NS, Chert, blk, wht, SH, grays

SH, lt. gray to dk. grays, green, silty, pyrite specs, MS, crm to brn, f-xln, firm, chalky in pt., rare fossils,

SH, blk, gray, gree, MS, lt gray to brn, f-xln, firm to dense, Cherty frgmts, fossilif., NS

MS, tan to crm, lt. gray, brn, f-xln, massive to earthy txt, dense, some fossils, mineral specs, NS scatt SH, red, grays, fresh, platy

MS, crm to gray, f-xln to earthy, firm to hard, shaly pcs, scatt fossils (brach, crin, coral), rare massive barren pcs, dull fluor, NS, Chert, wht, brn

SH, dk. gray to gray, MS, crm to lt. gray, vf-xln, gritty in pt. chalky txt, hard to firm, rare fossils, mineral fluor, NS, Chert, lt, gray

MS, crm to tan, some mottled, f- to m-xln, chalky in pt, hard to firm, fossils, SH, greenish gray, Chert, wht

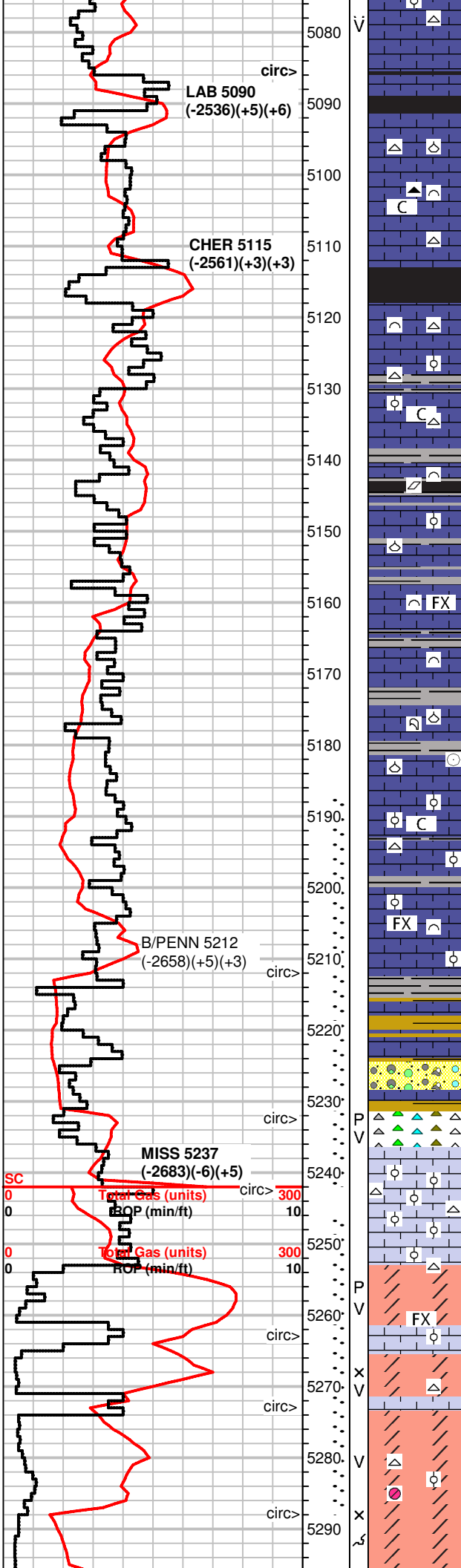
MS, crm, some lt. gray, chalky to mic-xln, firm to soft, scatt fossils, SH, blk, grays, fossil inclusions

MS-WS, crm to off wht, chalky to f-xln, soft to firm, scatt fossils, Chert, tan

+11 UGK, shale gas

SH, blk, gassy, carb, hard MS, WS, crm to tan, f-xln, chalky to earthy, soft to firm/brittle, fossilif., bioclastic pcs rare, hard, faint odor in bag, rare v. spty bri. fluor, slow milky cut when broken PP to vuggy por. tite Chert wht

+20 UGK, 6 UGK recycle



SH, blk, gray, blocky  
MS, crm, A.A., some brn-ish gray, hard, dense, fossils, dull fluor, NS

MS, brn to crm, vf-xln to massive, dense, hard, fossilif., some pcs chalky, Chert, wht, brn, fossil, SH, blk to grays

MS-WS, crm to gray, f-xln, dense, hard, earthy, rare fossils, NS, Chert, wht

SH, blk to gray, blocky, gassy, sli. carb pcs  
MS, crm to tan, f-xln, earthy, chalky in pt., dense to soft, calcite, NS, scatt Chert, wht

SH, dk. gray to gray, smoe blk, A.A.  
MS-WS, brn to tan, f-xln to m-xln, chalky, soft, fossilif., Chert, wht, fossils

MS-WS, brn to tan, m-xln to f-xln, hard to brittle, fossilif., some pcs dense, crisp-xln calcite, some SH, blk to dk. gray, blocky, hard

WS-MS, tan to brn, some gray, vf-xln, dense, some pcs chalky, hard, sandy to fossilif., brachs, SH, blk to gray, hard, limey in pt.

WS-MS, brn to crm, m-xln, gritty to earthy, hard, sandy, some pcs fossilif., m-gr oolitic pcs in tite calc. mtrx

Sh, gray to greenish gray, limey pcs, WS-MS, crm to tan, brn, f-xln to m-xln, hard to firm, some chalky, most dense, fossils, some shaly pcs.

MS-WS, brn to crm, f-xln to earthy pcs, hard to firm, some dense, m-gr oolitic pcs in tite calc mtrx, fossils (corals, brachs), dull fluor, NS, some SH, gray to dk. gray

MS-WS, crm to tan, f-xln, chalky, dense to firm pcs, some m-gr oolitic, ringed ooids in chalky to tite mtrx, calcite, Chert, wht, carrying SH, grays

MS, crm to brn, f to mic-xln, dense, hard, fossils, some pcs chalky, firm, NS, Sh, blk to gray

MS-WS, crm to brn, f-xln, chalky pcs scatt, fossils, hard to firm, rare pcs w/ bright spotty fluor, 2 pcs w/ inst strmg cut, no odor

SH, blk, gray, greens, red, sandy, pyrite flakes  
MS-WS, crm to brn, f-xln, hard, fossilif, chalky pcs, most dense, **gd odor in bag, spty to even stn, rare saturated pcs, in strmg cut from select pcs, some w/ milky cut, SS clusters, fn to co-gr, well to poorly srted, soft to hard, glauc, Chert, varicolored, even to spty stn, inst cut**

Chert, varicolored, fresh to wthrd, some PP to vuggy por., **faint odor, spty to even stn, live oil, bleeding oil, even stn to sat in dry**

WS-PS, crm to off wht, f-xln, chalky, m-gr oolitic to fossilif., glauc specs, Chert, wht, tan, fossils

Dolo, brn, f-xln to m-xln, , some sucrosic sugary txt, firm to brittle, some pcs hard, rare pcs w/ chert frgmts, **gd bri fluor, fair to good odor, live oil, bleeding gas & oil, inst. cut, even stn dry, vuggy to PP por.**

Dolo, brn to tan, f- to m-xln, sucrosic txt, some gritty to co-gr pcs scatt w/ rare re-xtalized ooids in firm dolo. matrix, **good odor, bleeding oil and gas, some pcs bleed oil when broken, inst strmg cut, int-xln to vuggy por. partial to even stn dry**

Dolo, tan to brn, m- to f-xln, hard to soft/friable, most gritty txt, f-gr sugary to co-gr oolitic/modic pcs (rare), **bright fluor, good odor, partial to even stn, bleeding oil, live oil in tray, inst strmg cut, vuggy to int-xln por.**

Dolo, tan to brn, f tom -xln, firm to soft, f-sugary txt to m-gr oolitic/moldic txt, some pcs hard, Chert frgmt inclusions, **bright fluor, live oil/strmg cut on break, good odor, vuggy to int-xln por.**

+10 UGK

**+24 UGK, shale gas**

DST #1 5187-5241  
30-60-60-120  
SB BOB 30 sec, built to 791"  
SBB BOB blt to 248", GTS  
SB BOB/GTS immed Ga on 3/8 inch choke  
135.13 MCFG/10min  
124.11 MCFG/20min  
115.72 MCFG/30min  
109.82 MCFG/40min  
105.64 MCFG/50min  
102.82 MCFG/60min  
NBB  
Rec: 5075' GIP  
90' Gassy Mud  
IH 2528#  
IF 53-81#  
ISIP 1296#  
FF 79-64#  
FSIP 1311#  
FH 2496#  
Temp 108°F  
Cl 6,100ppm  
Pipe Strap 1.89 Long

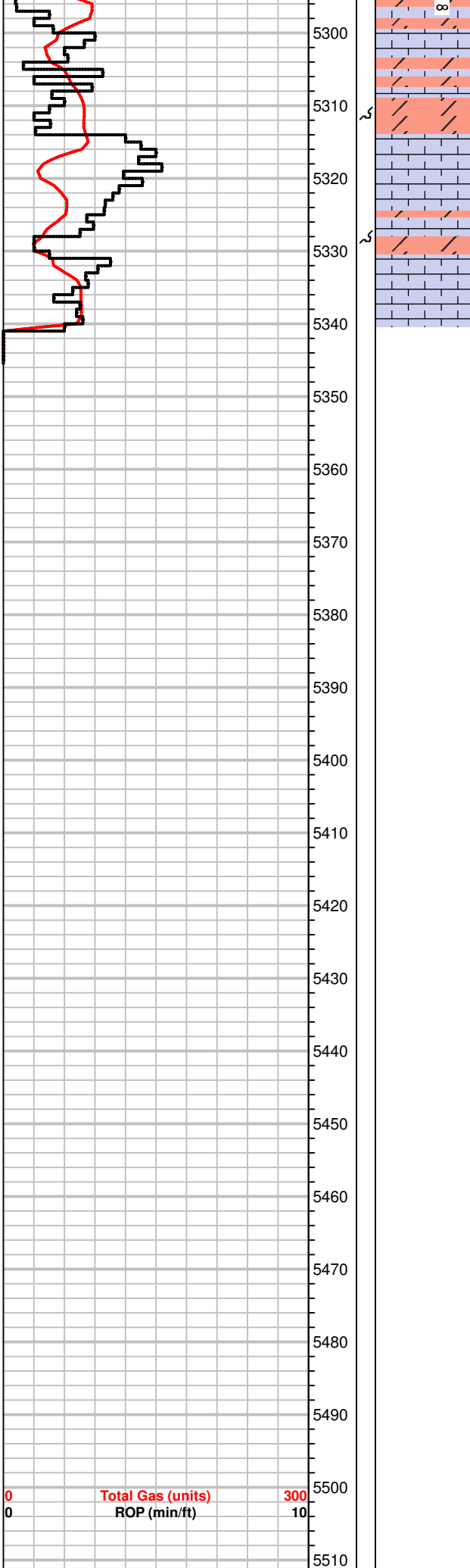
+19 UGK, w/ +5 UGK recycle

+18 UGK w/ +8 UGK recycle

+158 UGK, w/ +60 UGK recycle

+115 UGK, w/ +45 UGK recycle

DST #2 5246-5263  
30-60-60-120  
SB BOB 1 min, blt to 320"  
Surf BB  
SB BOB immed, GTS  
Ga 1/8th in choke



WS-PS, off wht, firm to soft, m-gr oolitic, chalky, Chert, wht

Dolo, brn to crm, m to co-gr oolitic/moldic txt, some sugary txt to sucrosic, most firm to hard, **spty bright fluor, rare bleeding gas, live oil/cut only on break, good odor, moldic to int-xln por., none to rare even stn dry**

PS, off wht to crm, rare massive pcs, most m-gr oolitic, chalky, firm to soft, Chert, wht

Scatt Dolo, crm to brn, co-gr oolitic pcs to f-xln sugary txt, mineral fluor, **v-spty bright fluor, strmg cut only on break, fair to good odor, spty stn dry**

PS, off wht to crm, f-xln, chalky mtrx, m-gr oolitic, firm to soft, scatt hard, Chert, wht

7.99 MCFG/10 min  
 9.09 MCFG/20 min  
 10.07 MCFG/30 min  
 10.90 MCFG/40 min  
 11.60 MCFG/50 min  
 12.32 MCFG/60 min  
 4.3 inch BB  
 5058' GIP  
 Rec: 40' CO  
 64' GHOCM (45g,55m)  
 65' GHOWCM  
 (55g,36o,8m,1w)  
 IH 2515#  
 IF 42-54#  
 ISIP 1452#  
 FF 48-101#  
 FSIP 1453#  
 FH 2458#  
 Temp 106°F  
 API Grav 33 @ 60°F  
 Cl 6,100ppm

DST #3 5263-5273  
 30-60-60-120  
 SB BOB 8min, blt to 32.5"  
 NBB  
 SB BOB 30 Sec, Blt to 71.5"  
 NBB  
 1568' GIP  
 Rec: 60' GOWCM  
 (20g,30o,45m,5w)  
 IH 2504#  
 IF 27-28#  
 ISIP 1345#  
 FF 31-34#  
 FSIPO 1393#  
 FH 2445#  
 Temp 103°F  
 Cl 8,300ppm

DST #4 5273-5288  
 30-60-60-120  
 SB BOB 1 min, blt to 81"  
 2" BB  
 SB BOB 1.5 min, blt to 73"  
 11" BB  
 3116' GIP  
 Rec: 20' CO  
 64' GOSWCM  
 (20g,25o,50,5w)  
 65' GOWCM  
 (20g,10o,35m,35w)  
 128' GVSOCMW  
 (1g,2o,2m,95w)  
 IH 2494#  
 IF 37-70#  
 ISIP 1413#  
 FF 73-137#  
 FSIP 1419#  
 FH 2431#  
 Temp 105°F  
 API 38\* @ 60°F  
 Cl 32,000ppm  
 Rw .28 @ 64°F

0 Total Gas (units) 300  
 0 ROP (min/ft) 10

5520

5530

5540