KOLAR Document ID: 1540005

Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5004
Name: Vincent Oil Corporation
Address 1: 200 W DOUGLAS AVE #725
Address 2:
City: WICHITA State: KS Zip: 67202 + 3023
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Dudgeon
Purchaser: MV Purchasing

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☑ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☐ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ EOR Permit #:
☐ GSW Permit #:

8/31/2020 Spud Date or Recompletion Date
9/11/2020 Date Reached TD
9/26/2020 Completion Date or Recompletion Date

API No.: 15-057-21043-00-00
Spot Description:
E2 - SE - SE - SW Sec. 34 Twp. 28 S. R. 23 ☐ East ☑ West
330 Feet from ☐ North / ☑ South Line of Section
2475 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: KEOUGH Well #: 12-34
Field Name:
Producing Formation: Mississippian
Elevation: Ground: 2553 Kelly Bushing: 2564
Total Vertical Depth: 5350 Plug Back Total Depth: 5335
Amount of Surface Pipe Set and Cemented at: 694 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: 22500 ppm Fluid volume: 850 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Elk Energy Holdings LLC
Lease Name: Karla SWD 2922 1-1 License #: 35420
Quarter SW Sec. 1 Twp. 29 S. R. 22 ☐ East ☑ West
County: Ford Permit #: D31368

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

☐ **Confidentiality Requested**
Date: 12/23/2020
☐ **Confidential Release Date:** 12/23/2022
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 12/23/2020

Page Two

Operator Name: Vincent Oil Corporation Lease Name: KEOUGH Well #: 12-34

Sec. 34 Twp. 28 S. R. 23 ☐ East ☑ West County: Ford

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

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

Drill Stem Tests Taken *(Attach Additional Sheets)*	☑ Yes	☐ No	
Samples Sent to Geological Survey	☑ Yes	☐ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	694	MDC & Common	300	0-2% Gel, 3% CC & 1/4# Flow-seal/sx
Production	7.875	4.5	11.6	5349	Pro-C	175	2% Gel, 10% Salt & 5# Kol-seal/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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

Date of first Production/Injection or Resumed Production/ Injection: 9/26/2020

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	100		5		

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL:

Top	Bottom
5268	5272
5276	5282

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
Attached	Attached	Attached	Attached	Attached	Attached

TUBING RECORD: Size: 2.3750 Set At: 5297 Packer At: None

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

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 12-34
Doc ID	1540005

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 12-34
Doc ID	1540005

Tops

Name	Top	Datum
Heebner Shale	4378	(-1813)
Brown Limestone	4520	(-1955
Lansing -Kansas City	4530	(-1965)
Stark Shale	4870	(-2305)
Base Kansas City	4986	(-2421)
Pawnee	5080	(-2515)
Cherokee Shale	5129	(-2564)
Base Penn Limestone	5228	(-2663)
Mississippian	5251	(-2686)
LTD	5350	(-2785)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 12-34
Doc ID	1540005

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
2	5268	5272			
2	5276	5282			Ran tubing & packer and swabbed well down. Swab 1 hr and SDFN
					SITP 250#, Fld at 2800' (90% Oil), BHP 987#, Swabbed down & Acidized with 750 gal 15% MCA
					Swabbed 6 hrs with final rate 31 bbl/ hr (99% Oil), SDFN
					Swabbed 3hrs (39 bbl/hr, 99% Oil), pulled tubing and packer ,

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 12-34
Doc ID	1540005

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSetAt	Material Record
					Ran production tubing, rods and BHP, set surface equipment & turned to production

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 12-34
Doc ID	1540005

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	694	MDC & Common	300	0-2% Gel, 3% CC & 1/4# Flow-seal/sx
Production	7.875	4.5	11.6	5349	Pro-C	175	2% Gel, 10% Salt & 5# Kol-seal/sx

QUALITY WELL SERVICE, INC.

7489

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410 **Rich's Cell 620-727-3409**
Fax 620-672-3663 **Brady's Cell 620-727-6964**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-1-20	34	23S	23W	Ford	Ks		

Lease Keough | Well No. 12-34 | Location Kingsdown Ks N to Wilburn Rd

Contractor Duke Drlg Rig #1 | Owner 3 1/2 W N into

Type Job Surface

Hole Size 12 1/4 | T.D. 695'

Csg. 8 5/8 23 | Depth 694'

Tbg. Size | Depth

Tool | Depth

Cement Left in Csg. 42.72 | Shoe Joint 42.72

Meas Line | Displace 41.68

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Vincent Oil Corp

Street

City State

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

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

EQUIPMENT

Pumptrk 3	No.	
Bulktrk 7	No.	
Bulktrk 10	No.	
Pickup	No.	

JOB SERVICES & REMARKS

Rat Hole

Mouse Hole

Centralizers Baffle Plate 1 ea

Baskets

D/V or Port Collar

Ran 16 jts 8 5/8 23# CSG set @ 694'
START CSG CSG on Bottom
Hook up to CSG & Break circulation
START Pumping 10 Bbls H2O
START Mix & Pump 150 sx Lead @ 12.4#/gal
START Mix & Pump 150 sx Tail @ 14.8#/gal
SHUT DOWN Release 8 5/8 Wood Plug
START DISP
PLUG DOWN 42 out 350#
Close Valve on CSG
Good Cir thru job
Circ Cmt to Pit

THANK YOU
PLEASE CALL AGAIN
TODD MIKE MATT CASEY

X Signature Mike Hoffman

Common	150 sk
Poz. Mix	150 sk
Gel.	564 #
Calcium	846 #
Hulls	
Salt	
Flowseal	150 #
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	323
Mileage	60 / 9690
	85/3

FLOAT EQUIPMENT

Guide ~~Shoe~~	8 5/8 Wooden Plug 1 EA
Centralizer	8 5/8 Baffle Plate 1 EA
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Service Sup	1 EA
LMV	60
Pumptrk Charge	Surface
Mileage	180
Tax	
Discount	
Total Charge	

Taylor Printing, Inc.

QUALITY WELL SERVICE, INC.

7493

Federal Tax I.D. # 481187368
Home Office 30060 N. Hwy 281, Pratt, KS 67124
Mailing Address P.O. Box 468
Office 620-727-3410 **Rich's Cell 620-727-3409**
Fax 620-672-3663 **Brady's Cell 620-727-6964**

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-11-20	34	28S	23W	FORD	KS		

Lease KEOUGH Well No. 12-34 Location KINGSDOWN, KS N to WILBURN RD

Contractor DUKE DRLG RIG #1 Owner 3½ W N INTO

Type Job 4½ L.S.

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	7⅞	T.D. 5350'
Csg.	4½ 11.6#	Depth 5349
Tbg. Size		Depth
Tool		Depth
Cement Left in Csg.	10.53	Shoe Joint 10.53
Meas Line		Displace 82.72

Charge To VINCENT OIL CORP

Street

City State

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

Cement Amount Ordered 225 sx PROC 2% GEL 10% SALT 5#/sx KOLSEAL .6% C16A 25% C41P 25#/sx FS

EQUIPMENT

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

Common 225 sx

Poz. Mix

Gel. 4 sx

Calcium

Hulls

Salt 1239#

Flowseal 56.25#

Kol-Seal 1125#

Mud CLR 48 500 GAL

CFL-117 or CD110 CAF 38 C16A 127#

Sand C41P 53# CC-1 7 GAL

Handling 253

Mileage 60/3500

JOB SERVICES & REMARKS

Rat Hole 30 sx

Mouse Hole 20 sx

Centralizers 1-3-5-7-9-11

Baskets

D/V or Port Collar

RUN #1's 4½ 11.6# CSG SET @ 5349

START CSG CSG ON BOTTOM & TAG

Hook up to CSG & BREAK CIR W/RIG

DROP BALL & CIRC

START PUMPING 10 BBL H2O 12 BBL MF 10 BBL H2O

START MIX & PUMP 50 sx PLUG R-M HOLE

START MIX & PUMP 175 sx @ CSG @ 14.8#/GAL

SHUT DOWN WASH UP TO RELEASE 4½ TP PLUG

START DISP W/ 2% KCL

Lift psi 70 at 600#

PLUG DOWN 83½ at 1100#

PUMP CSG 1600#

RELEASE HELD ½ BBL BACK

GOOD CIRC THRU JOB

THANK YOU TOM MIKE MATT

PLEASE CALL AGAIN

X Signature

4½ FLOAT EQUIPMENT

Guide Shoe 1 EA

Centralizer 6 EA

~~Baskets~~ 1 EA 4½ TOP RUBBER PLUG

AFU Inserts 1 EA

~~Float Shoe~~ 1 EA H-M

Latch Down

SERVICE SUP 1 EA

LMV 60

Pumptrk Charge LS.

Mileage 120

Tax

Discount

Total Charge

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vincent Oil Corporation**

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

Keough #12-34

34-26S-23 Ford,KS

Start Date: 2020.09.07 @ 16:55:00
End Date: 2020.09.08 @ 01:01:02
Job Ticket #: 61754 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.09.11 @ 13:34:06

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61754 **DST#: 1**

Test Start: 2020.09.07 @ 16:55:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:17:17
Time Test Ended: 01:01:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5030.00 ft (KB) To 5098.00 ft (KB) (TVD)
Total Depth: 5098.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

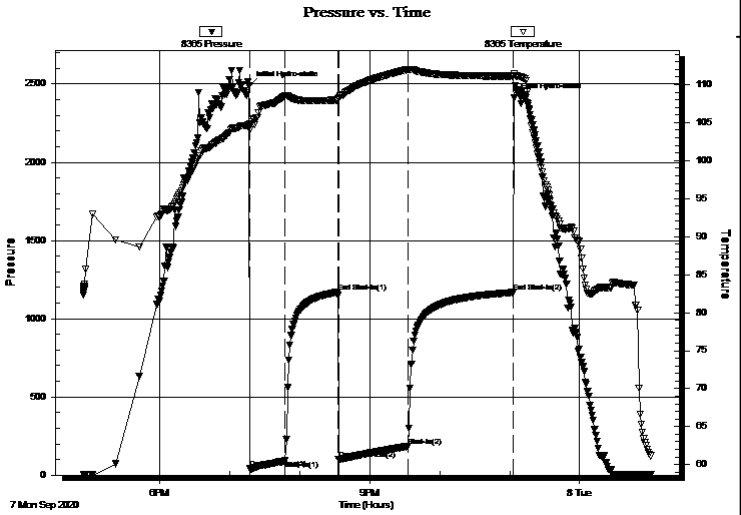
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 185.30 psig @ 5031.00 ft (KB)
Start Date: 2020.09.07 End Date: 2020.09.08
Start Time: 16:55:01 End Time: 01:01:02

Capacity: psig
Last Calib.: 2020.09.08
Time On Btm: 2020.09.07 @ 19:17:02
Time Off Btm: 2020.09.07 @ 23:03:47

TEST COMMENT: IF 30 Minutes/ Blow built to 10 1/2"
ISI 45 Minutes/ No blow back
FF 60 Minutes/ Blow to BOB in 53 minutes/ Total build 12 1/4"
FSI 90 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2490.21	104.64	Initial Hydro-static
1	40.65	104.02	Open To Flow (1)
31	91.78	108.51	Shut-In(1)
76	1169.04	107.97	End Shut-In(1)
77	99.40	108.12	Open To Flow (2)
136	185.30	111.97	Shut-In(2)
226	1167.74	111.11	End Shut-In(2)
227	2410.32	111.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW / M 10% W 90%	2.61
155.00	OSMW / O 1% M 40% W 59%	2.17
0.00	31' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61754 **DST#: 1**

Test Start: 2020.09.07 @ 16:55:00

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:17:17
Time Test Ended: 01:01:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5030.00 ft (KB) To 5098.00 ft (KB) (TVD)
Total Depth: 5098.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

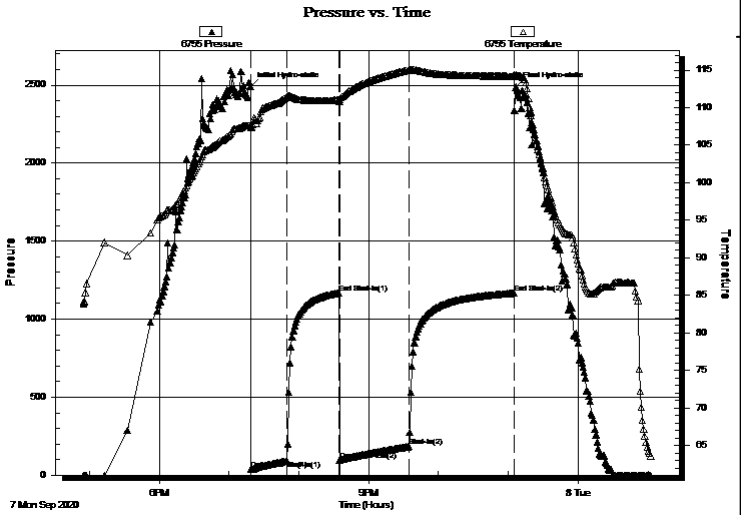
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6755 **Outside**

Press@RunDepth: 1166.54 psig @ 5032.00 ft (KB)
Start Date: 2020.09.07 End Date: 2020.09.08
Start Time: 16:55:01 End Time: 01:03:02

Capacity: psig
Last Calib.: 2020.09.08
Time On Btm: 2020.09.07 @ 19:18:17
Time Off Btm: 2020.09.07 @ 23:06:17

TEST COMMENT: IF 30 Minutes/ Blow built to 10 1/2"
ISI 45 Minutes/ No blow back
FF 60 Minutes/ Blow to BOB in 53 minutes/ Total build 12 1/4"
FSI 90 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2489.49	107.65	Initial Hydro-static
1	37.59	107.30	Open To Flow (1)
32	92.50	111.47	Shut-In(1)
76	1167.73	110.99	End Shut-In(1)
77	97.76	110.83	Open To Flow (2)
137	184.65	115.03	Shut-In(2)
227	1166.54	114.21	End Shut-In(2)
228	2488.17	114.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	MW / M 10% W 90%	2.61
155.00	OSMW / O 1% M 40% W 59%	2.17
0.00	31' GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61754 **DST#: 1**

Test Start: 2020.09.07 @ 16:55:00

Tool Information

Drill Pipe:	Length:	5037.00 ft	Diameter:	3.80	inches	Volume:	70.66	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	70.66	bbl	

Drill Pipe Above KB:	35.00 ft
Depth to Top Packer:	5030.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	67.78 ft
Tool Length:	95.78 ft
Number of Packers:	2
Diameter:	6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		65000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	58000.00 lb
	Final	59000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			5007.00		
Hydraulic tool	5.00			5012.00		
Jars	6.00			5018.00		
Safety Joint	2.00			5020.00		
Top Packer	5.00			5025.00		
Packer	5.00			5030.00	28.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	5031.00		
Recorder	1.00	6755	Outside	5032.00		
Anchor	30.00			5062.00		
Change Over Sub	1.00			5063.00		
Drill Pipe	30.78			5093.78		
Change Over Sub	1.00			5094.78		
Bullnose	3.00			5097.78	67.78	Anchor Tool
Total Tool Length:	**95.78**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61754 **DST#: 1**

Test Start: 2020.09.07 @ 16:55:00

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:	19000 ppm
Viscosity:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	MW / M 10% W 90%	2.609
155.00	OSMW / O 1% M 40% W 59%	2.174
0.00	31' GIP	0.000

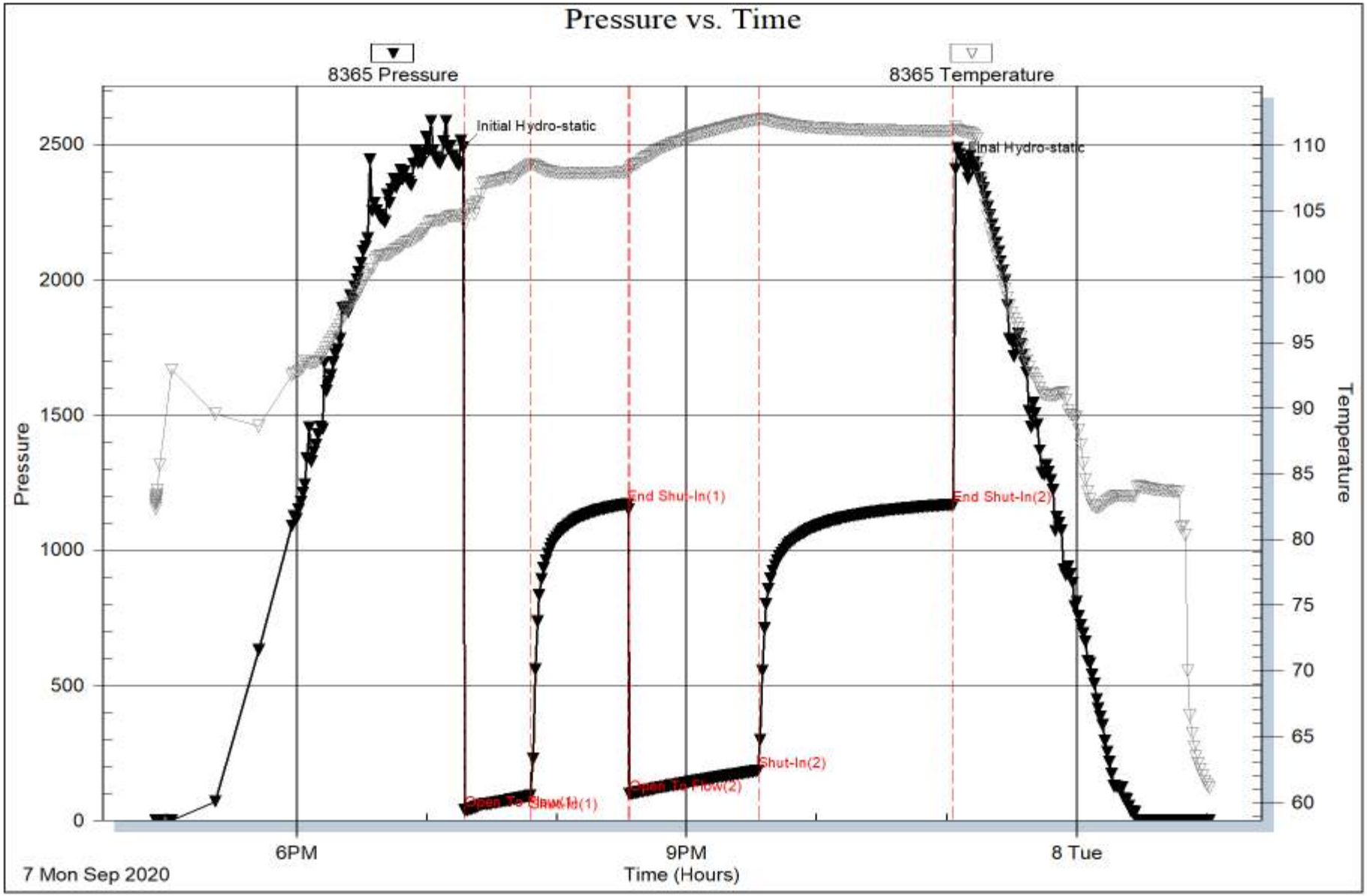
Total Length: 341.00 ft Total Volume: 4.783 bbl

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

Laboratory Name: Laboratory Location:

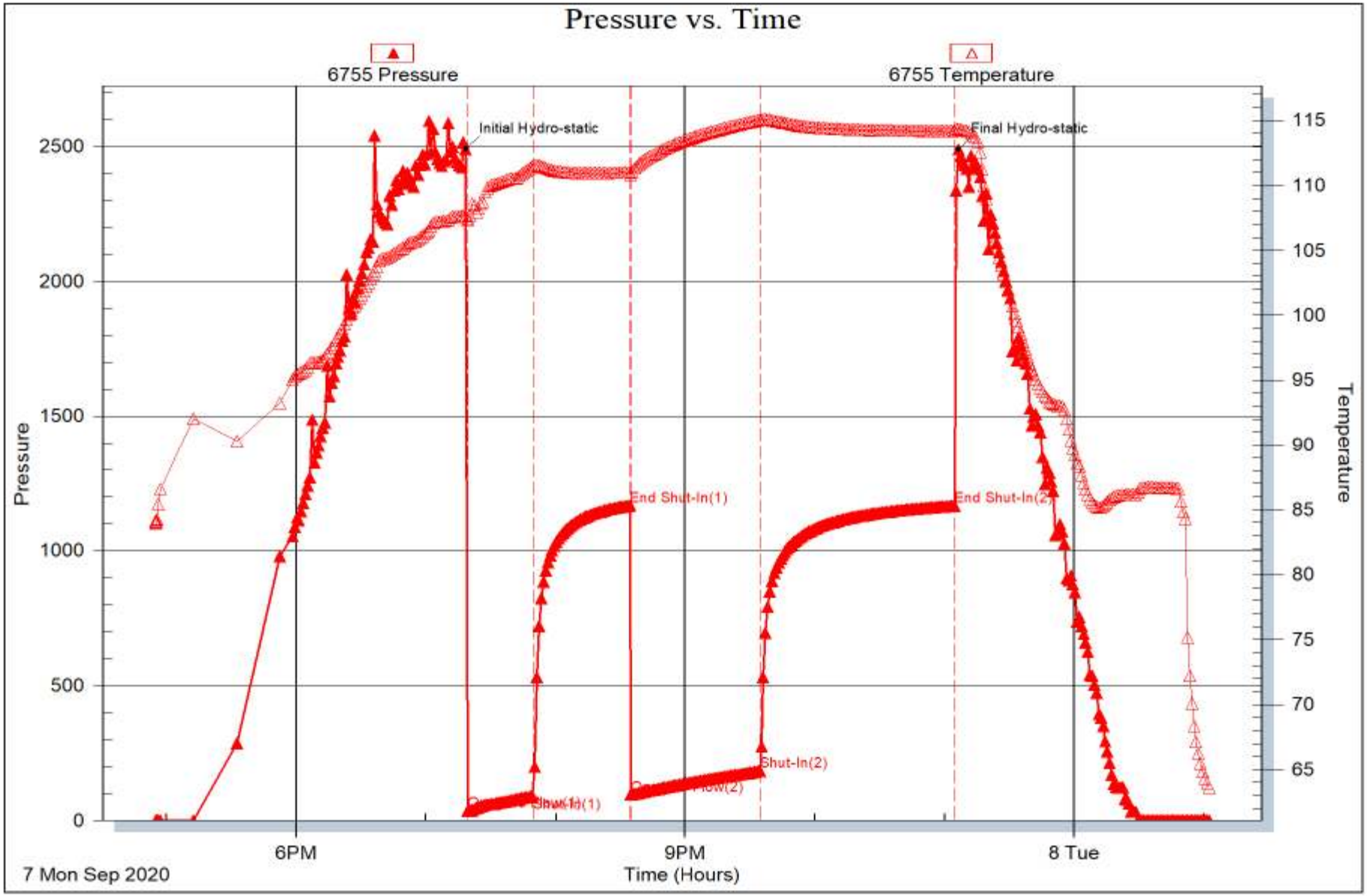
Recovery Comments: Recovery Resistivity .375 ohms @ 64 deg.

Serial #: 8365 **Inside** Vincent Oil Corporation Keough #12-34 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61754 Printed: 2020.09.11 @ 13:34:07

Serial #: 6755 **Outside** Vincent Oil Corporation Keough #12-34 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 61754 Printed: 2020.09.11 @ 13:34:07

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vincent Oil Corporation**

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

Keough #12-34

34-26S-23 Ford,KS

Start Date: 2020.09.08 @ 21:31:00

End Date: 2020.09.09 @ 06:27:02

Job Ticket #: 61755 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.09.11 @ 13:33:40

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61755 **DST#: 2**

Test Start: 2020.09.08 @ 21:31:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:41:47
Time Test Ended: 06:27:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5258.00 ft (KB) To 5273.00 ft (KB) (TVD)
Total Depth: 5273.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

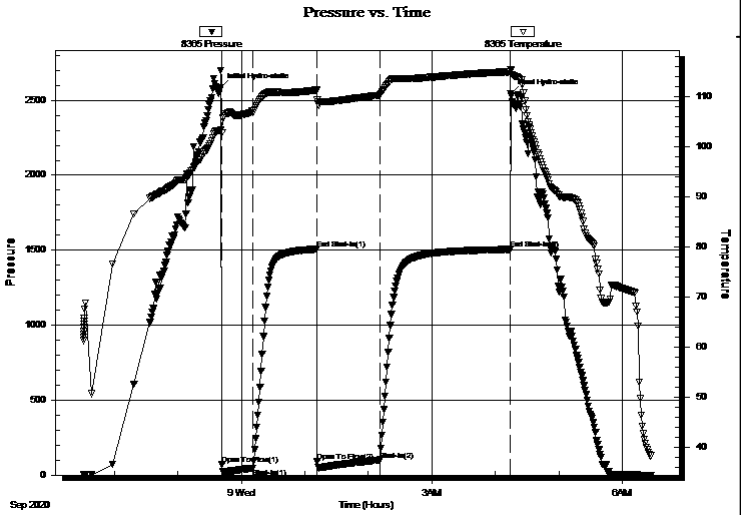
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 101.36 psig @ 5259.00 ft (KB)
Start Date: 2020.09.08 End Date: 2020.09.09
Start Time: 21:31:01 End Time: 06:27:02

Capacity: psig
Last Calib.: 2020.09.09
Time On Btm: 2020.09.08 @ 23:40:17
Time Off Btm: 2020.09.09 @ 04:14:32

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 2 minutes / Total build 189"
ISI 60 Minutes/ No blow back
FF 60 Minutes/ Blow to BOB in 15 seconds/ Total build 411" with 1/8" choke
FSI 120 Minutes/ Gas to surface bleeding off flow pressure/ 4 3/4" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2582.78	103.12	Initial Hydro-static
2	71.78	102.72	Open To Flow (1)
31	47.24	107.13	Shut-In(1)
91	1506.89	111.24	End Shut-In(1)
92	91.20	109.39	Open To Flow (2)
151	101.36	110.29	Shut-In(2)
274	1505.74	114.96	End Shut-In(2)
275	2544.48	115.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	GWCMO / O 40% G 40% M 15% W 5%	2.17
62.00	GO / O 95% G 5%	0.87

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61755 **DST#: 2**

Test Start: 2020.09.08 @ 21:31:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:41:47
Time Test Ended: 06:27:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5258.00 ft (KB) To 5273.00 ft (KB) (TVD)
Total Depth: 5273.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

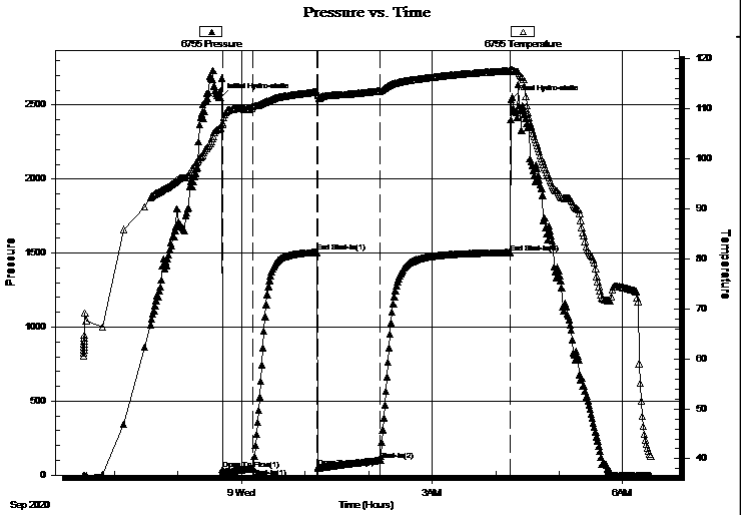
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6755 **Outside**

Press@RunDepth: 1504.72 psig @ 5260.00 ft (KB)
Start Date: 2020.09.08 End Date: 2020.09.09
Start Time: 21:31:01 End Time: 06:27:02

Capacity: psig
Last Calib.: 2020.09.09
Time On Btm: 2020.09.08 @ 23:40:17
Time Off Btm: 2020.09.09 @ 04:14:47

TEST COMMENT: IF 30 Minutes/ Blow to BOB in 2 minutes / Total build 189"
ISI 60 Minutes/ No blow back
FF 60 Minutes/ Blow to BOB in 15 seconds/ Total build 411" with 1/8" choke
FSI 120 Minutes/ Gas to surface bleeding off flow pressure/ 4 3/4" blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2552.33	106.11	Initial Hydro-static
2	40.96	106.89	Open To Flow (1)
31	46.18	110.65	Shut-In(1)
91	1505.61	113.34	End Shut-In(1)
92	52.57	112.79	Open To Flow (2)
151	100.86	113.54	Shut-In(2)
274	1504.72	117.60	End Shut-In(2)
275	2535.18	117.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
155.00	GWCMO / O 40% G 40% M 15% W 5%	2.17
62.00	GO / O 95% G 5%	0.87

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61755 **DST#: 2**

Test Start: 2020.09.08 @ 21:31:00

Tool Information

Drill Pipe:	Length:	5255.00 ft	Diameter:	3.80	inches	Volume:	73.71	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	73.71	bbl	

Drill Pipe Above KB:	24.00 ft
Depth to Top Packer:	5258.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	15.00 ft
Tool Length:	42.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		65000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	56000.00 lb
	Final	60000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			5236.00		
Hydraulic tool	5.00			5241.00		
Jars	5.00			5246.00		
Safety Joint	2.00			5248.00		
Top Packer	5.00			5253.00		
Packer	5.00			5258.00	27.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	5259.00		
Recorder	1.00	6755	Outside	5260.00		
Anchor	10.00			5270.00		
Bullnose	3.00			5273.00	15.00	Anchor Tool
Total Tool Length:	**42.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61755 **DST#: 2**

Test Start: 2020.09.08 @ 21:31:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	39 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	9300.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
155.00	GWCMO / O 40% G 40% M 15% W 5%	2.174
62.00	GO / O 95% G 5%	0.870

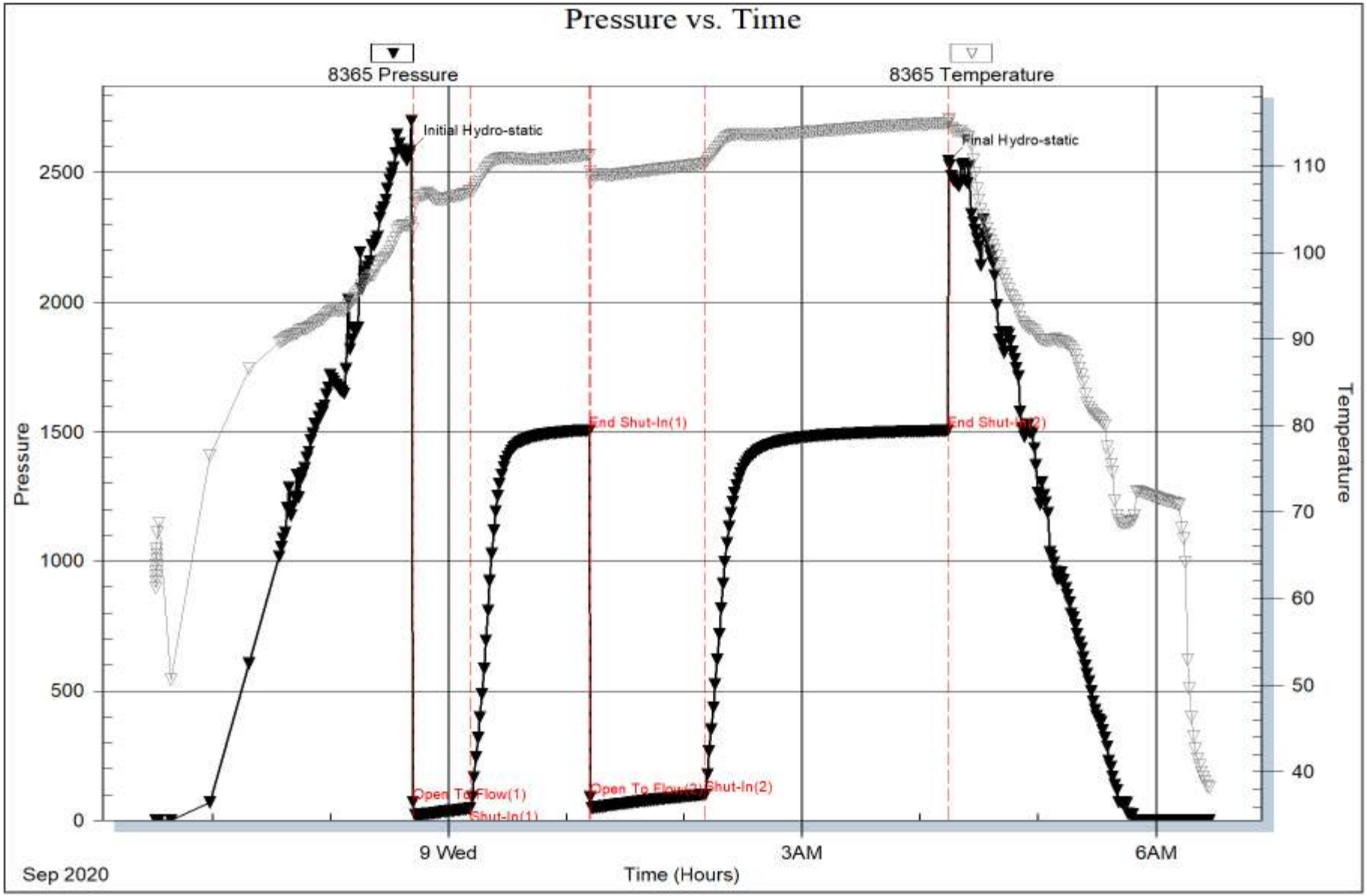
Total Length: 217.00 ft Total Volume: 3.044 bbl

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

Laboratory Name: Laboratory Location:

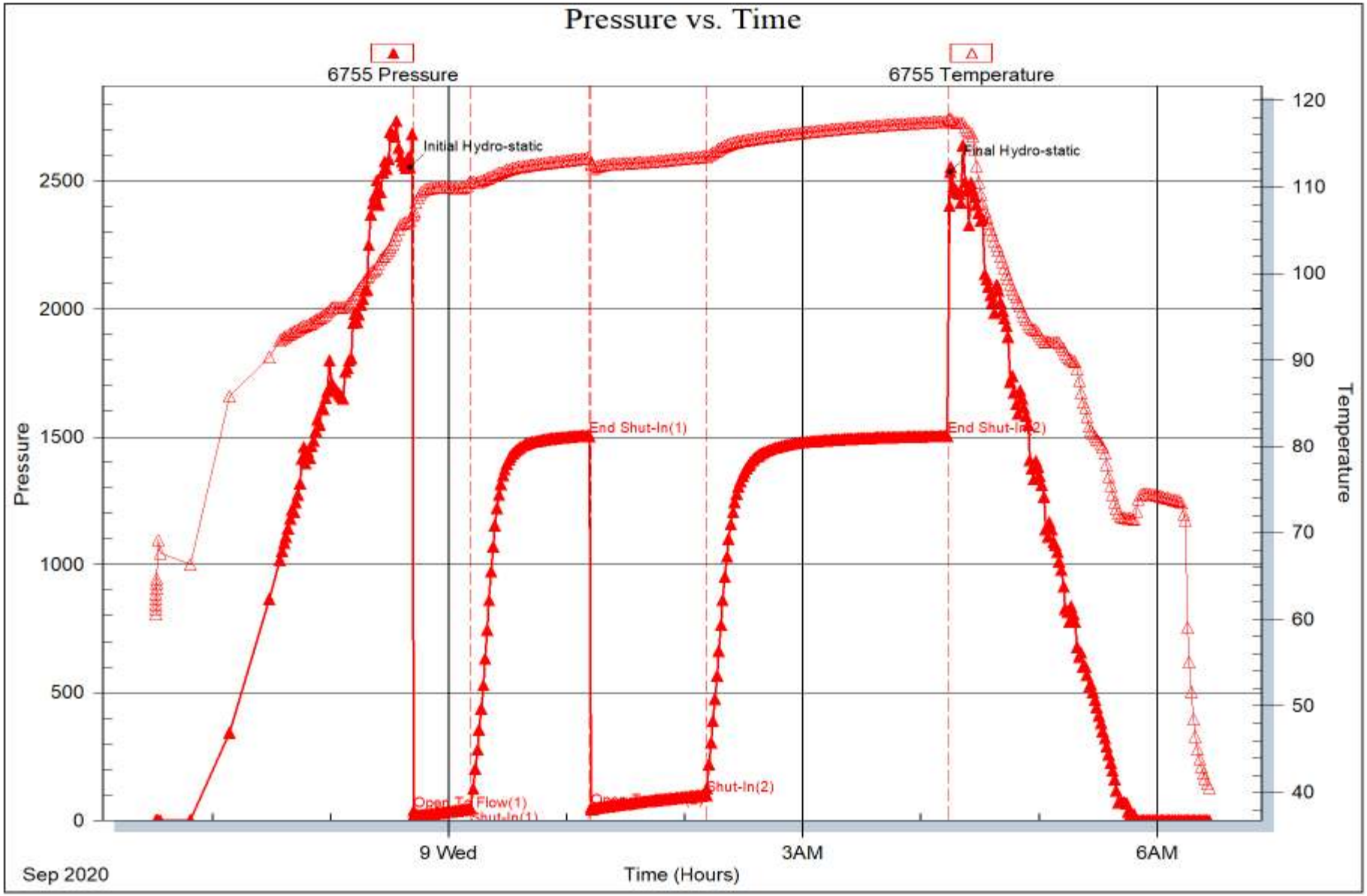
Recovery Comments:

Serial #: 8365 **Inside** Vincent Oil Corporation Keough #12-34 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 61755 Printed: 2020.09.11 @ 13:33:41

Serial #: 6755 **Outside** Vincent Oil Corporation Keough #12-34 DST Test Number: 2



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vincent Oil Corporation**

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

Keough #12-34

34-26S-23 Ford,KS

Start Date: 2020.09.09 @ 16:31:01
End Date: 2020.09.10 @ 01:35:02
Job Ticket #: 61756 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.09.11 @ 13:32:51

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61756 **DST#: 3**

Test Start: 2020.09.09 @ 16:31:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:27:17
Time Test Ended: 01:35:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5284.00 ft (KB) To 5294.00 ft (KB) (TVD)
Total Depth: 5294.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

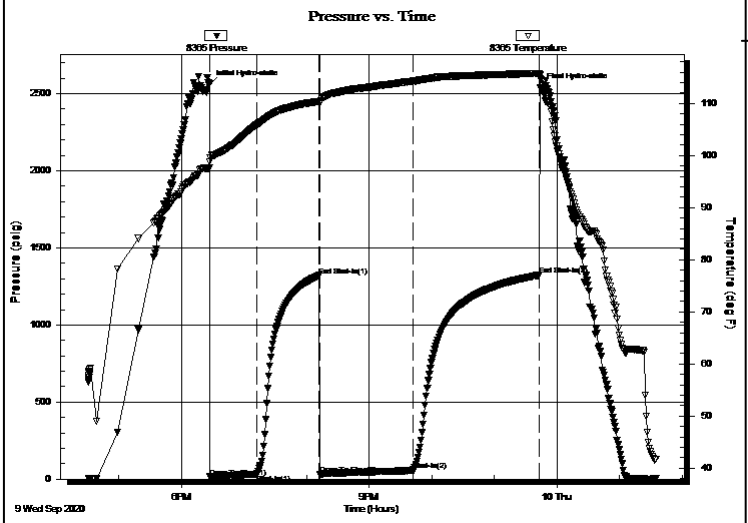
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 56.83 psig @ 5285.00 ft (KB)
Start Date: 2020.09.09 End Date: 2020.09.10
Start Time: 16:31:01 End Time: 01:35:02

Capacity: psig
Last Calib.: 2020.09.10
Time On Btm: 2020.09.09 @ 18:26:32
Time Off Btm: 2020.09.09 @ 23:44:17

TEST COMMENT: IF 45 Minutes/ Blow built to 9"
ISI 60 Minutes/ No blow back
FF 90 Minutes/ Blow to BOB in 45 minutes/ Total build 19"
FSI 120 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2560.63	97.58	Initial Hydro-static
1	14.39	98.81	Open To Flow (1)
46	32.68	105.83	Shut-In(1)
106	1320.54	110.38	End Shut-In(1)
106	29.48	109.92	Open To Flow (2)
196	56.83	114.25	Shut-In(2)
317	1322.92	115.75	End Shut-In(2)
318	2538.18	114.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	SOCMW / O 5% M 30% W 65%	1.30
0.00	93 feet GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61756 **DST#: 3**

Test Start: 2020.09.09 @ 16:31:01

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:27:17
Time Test Ended: 01:35:02

Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72

Interval: 5284.00 ft (KB) To 5294.00 ft (KB) (TVD)
Total Depth: 5294.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

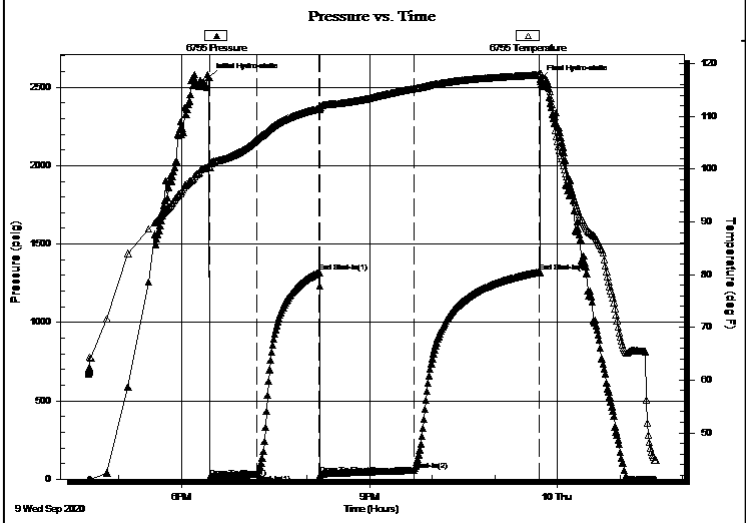
Reference Elevations: 2565.00 ft (KB)
2553.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6755 **Outside**

Press@RunDepth: 1322.01 psig @ 5286.00 ft (KB)
Start Date: 2020.09.09 End Date: 2020.09.10
Start Time: 16:31:01 End Time: 01:35:02

Capacity: psig
Last Calib.: 2020.09.10
Time On Btm: 2020.09.09 @ 18:26:32
Time Off Btm: 2020.09.09 @ 23:44:02

TEST COMMENT: IF 45 Minutes/ Blow built to 9"
ISI 60 Minutes/ No blow back
FF 90 Minutes/ Blow to BOB in 45 minutes/ Total build 19"
FSI 120 Minutes/ No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2559.80	100.47	Initial Hydro-static
1	12.76	100.25	Open To Flow (1)
46	30.72	105.57	Shut-In(1)
106	1319.47	111.50	End Shut-In(1)
106	27.92	111.24	Open To Flow (2)
196	56.12	115.28	Shut-In(2)
317	1322.01	117.94	End Shut-In(2)
318	2549.13	118.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	SOCMW / O 5% M 30% W 65%	1.30
0.00	93 feet GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61756 **DST#: 3**

Test Start: 2020.09.09 @ 16:31:01

Tool Information

Drill Pipe:	Length:	5287.00 ft	Diameter:	3.80	inches	Volume:	74.16	bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
Drill Collar:	Length:	0.00 ft	Diameter:	0.00	inches	Volume:	0.00	bbl	
						Total Volume:	74.16	bbl	

Drill Pipe Above KB:	30.00 ft
Depth to Top Packer:	5284.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	10.00 ft
Tool Length:	37.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:		2000.00 lb
Weight set on Packer:		20000.00 lb
Weight to Pull Loose:		74000.00 lb
Tool Chased		0.00 ft
String Weight:	Initial	63000.00 lb
	Final	63000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut-In Tool	5.00			5262.00		
Hydraulic tool	5.00			5267.00		
Jars	5.00			5272.00		
Safety Joint	2.00			5274.00		
Top Packer	5.00			5279.00		
Packer	5.00			5284.00	27.00	Bottom Of Top Packer
Recorder	1.00	8365	Inside	5285.00		
Recorder	1.00	6755	Outside	5286.00		
Anchor	5.00			5291.00		
Bullnose	3.00			5294.00	10.00	Anchor Tool
Total Tool Length:	**37.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

200 W Douglas Ave #725
Wichita, KS 67202+3023

ATTN: Tom Dudgeon

34-26S-23 Ford,KS

Keough #12-34

Job Ticket: 61756 **DST#: 3**

Test Start: 2020.09.09 @ 16:31:01

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:	27000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	10600.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	SOCMW / O 5% M 30% W 65%	1.305
0.00	93 feet GIP	0.000

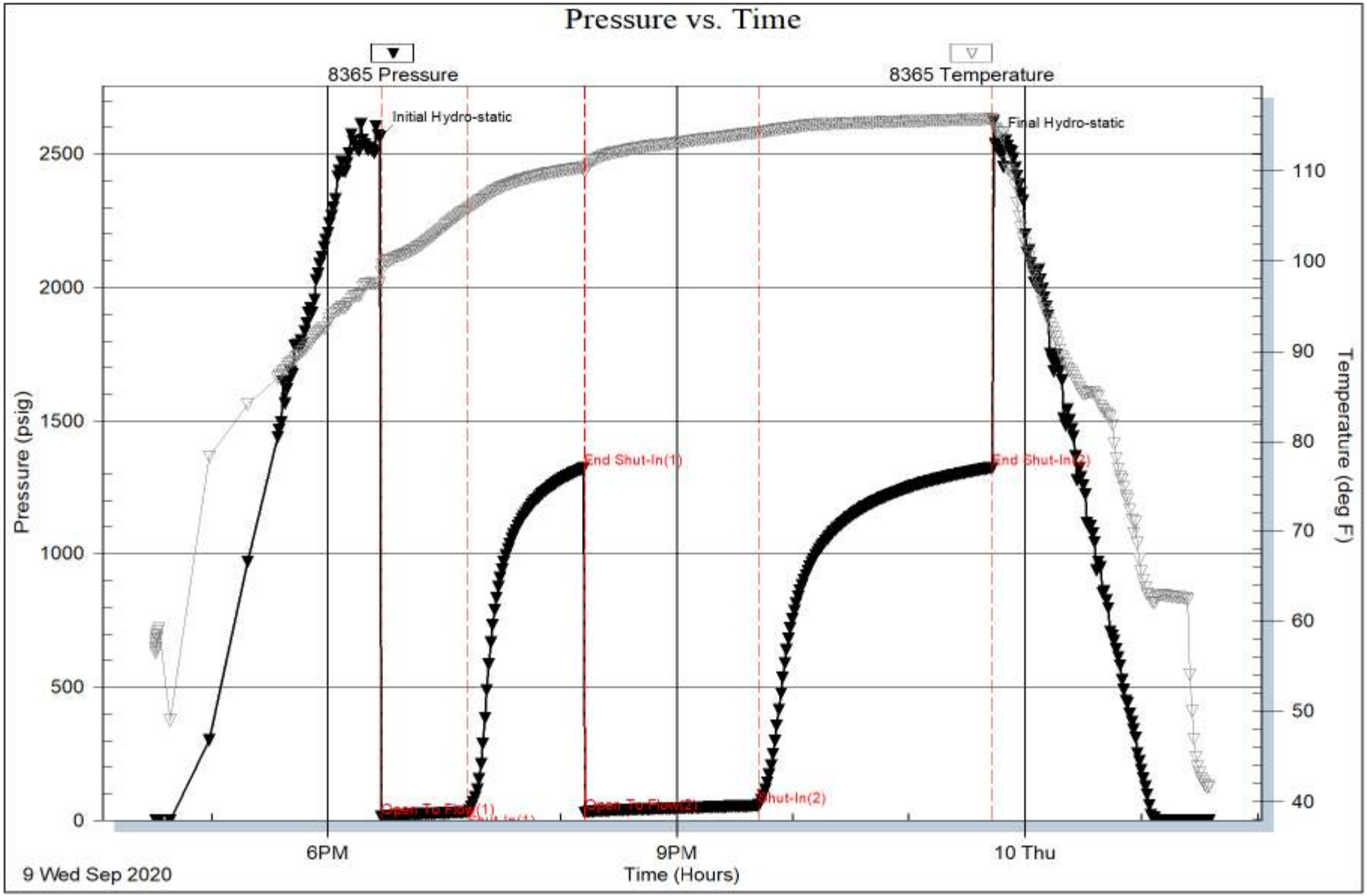
Total Length: 93.00 ft Total Volume: 1.305 bbl

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

Laboratory Name: Laboratory Location:

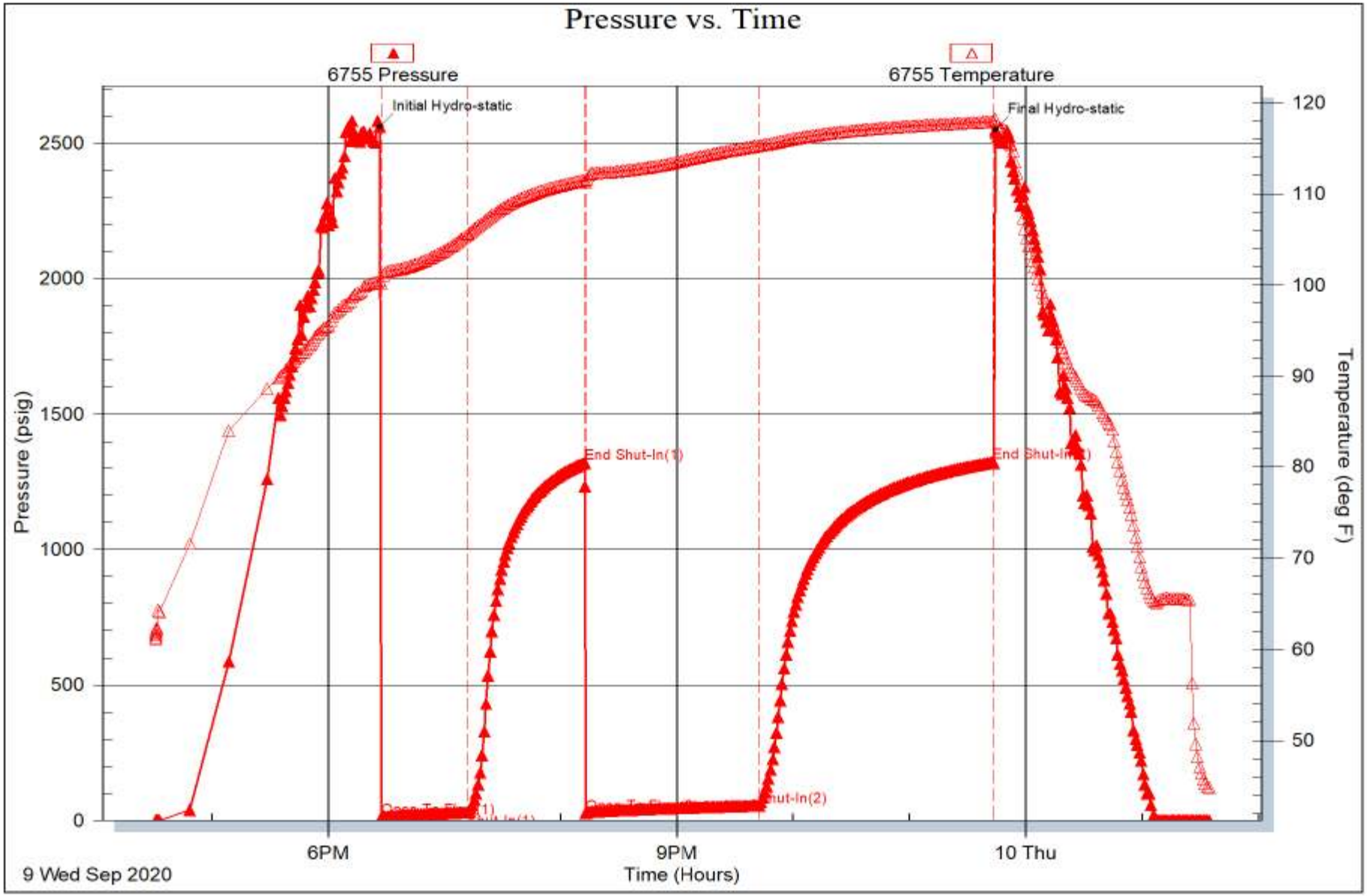
Recovery Comments: Recovery Resistivity .312 ohms @ 53 deg.

Serial #: 8365 **Inside** Vincent Oil Corporation Keough #12-34 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61756 Printed: 2020.09.11 @ 13:32:52

Serial #: 6755 **Outside** Vincent Oil Corporation Keough #12-34 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61756 Printed: 2020.09.11 @ 13:32:52

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61754

Well Name & No. Keough 12-34 Test No. 1 Date 7 Sept 2020

Company Vincent Oil Corp. Elevation 2565 KB 2553 GL

Address 200 W Douglas Ave #725 Wichita Kansas 67202+5023

Co. Rep / Geo. Tom Dudgeon Rig Duke Rig 1

Location: Sec. 34 Twp. 26S Rge. 23W Co. Ford State KS

Interval Tested 5030-5098 Zone Tested Pawnee

Anchor Length 68 Drill Pipe Run 5037 Mud Wt. 9.3

Top Packer Depth 5025 Drill Collars Run — Vis 51

Bottom Packer Depth 5030 Wt. Pipe Run — WL 8.8

Total Depth 5098 Chlorides 9000 ppm System LCM 1½#

Blow Description IF Blow built to 10½ inches

ISI No blow back

FF Blow to BOB in 53 minutes / Total build 12¼ inches

FSI No blow back

Rec 186	Feet of MW	%gas	%oil	90 %water	10 %mud
Rec 155	Feet of OSMW	%gas	1 %oil	59 %water	40 %mud
Rec 31	Feet of GIP	100 %gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total BHT 112 Gravity API RW .375 @ 64 °F Chlorides 19,000 ppm

(A) Initial Hydrostatic 2490	☒ Test 1400	T-On Location 2:30 pm
(B) First Initial Flow 40	☒ Jars 250	T-Started 4:55 pm
(C) First Final Flow 91	☒ Safety Joint 75	T-Open 7:18 pm
(D) Initial Shut-In 1169	☐ Circ Sub	T-Pulled 11:03 pm
(E) Second Initial Flow 99	☐ Hourly Standby	T-Out 10:2 am
(F) Second Final Flow 185	☒ Mileage 134 134	Comments
(G) Final Shut-In 1167	☐ Sampler	
(H) Final Hydrostatic 2410	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 45	☐ Extra Recorder	Sub Total 0
Final Flow 60	☐ Day Standby	Total 1859
Final Shut-In 90	☐ Accessibility	MP/DST Disc't
	Sub Total 1859	

Approved By _____ Our Representative _____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61755

Well Name & No. Keough 12-34 Test No. 2 Date 8 Sep 2020

Company Vincent Oil Corp Elevation 2565 KB 2553 GL

Address 200 w Douglas Ave # 725 Wichita Kansas 67202-3073

Co. Rep / Geo. Tom Dudgeon Rig Duke Rig 2

Location: Sec. 34 Twp. 26S Rge. 23W Co. Ford State KS

Interval Tested 5258-5273 Zone Tested Mississippi

Anchor Length 15 Drill Pipe Run 5255 Mud Wt. 9.25

Top Packer Depth 5253 Drill Collars Run — Vis 50

Bottom Packer Depth 5258 Wt. Pipe Run — WL 8.0

Total Depth 5273 Chlorides 9300 ppm System LCM 2#

Blow Description IF Blow to BOB in 2 minutes / Total build 189 inches

ISI No Blow back

FF Blow to BOB 15 seconds / Total build 411 inches with 1/8 inch choke

FSI Gas to surface bleeding off flow pressure / 4 3/4 inch blow back

Rec 155	Feet of GWCMO	40 %gas	40 %oil	5 %water	15 %mud
Rec 62	Feet of GO	5 %gas	95 %oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 217 BHT 115 Gravity 39 API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 2582	☒ Test 1400	T-On Location 8:20 pm
(B) First Initial Flow 71	☒ Jars 250	T-Started 9:31 pm
(C) First Final Flow 47	☒ Safety Joint 75	T-Open 11:42 pm
(D) Initial Shut-In 1506	☐ Circ Sub	T-Pulled 4:12 am
(E) Second Initial Flow 91	☐ Hourly Standby	T-Out 6:27 am
(F) Second Final Flow 101	☒ Mileage 134 134	Comments
(G) Final Shut-In 1505	☐ Sampler	
(H) Final Hydrostatic 2544	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 60	☐ Extra Recorder	Sub Total 0
Final Flow 60	☐ Day Standby	Total 1859
Final Shut-In 120	☐ Accessibility	MP/DST Disc't
	Sub Total 1859	

Approved By ____ Our Representative ____

Trilobite Testing Inc. shall not be liable for damages of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 61756

Well Name & No. Keough 12-34 Test No. 3 Date 9 Sept 2020

Company Vincent Oil Corp Elevation 2565 KB 2553 GL

Address 200 W Douglas Ave #725 Wichita Kansas 67202+3023

Co. Rep / Geo. Tom Dudgeon Rig Duke Rig 1

Location: Sec. 34 Twp. 26S Rge. 23W Co. Ford State KS

Interval Tested 5284-5294 Zone Tested Mississippi

Anchor Length 10 Drill Pipe Run 5287 Mud Wt. 9.15

Top Packer Depth 5279 Drill Collars Run — Vis 50

Bottom Packer Depth 5284 Wt. Pipe Run — WL 10.0

Total Depth 5294 Chlorides 10,600 ppm System LCM 2#

Blow Description IF Blow built to 9 inches

ISI No blow back

FF Blow to BOB in 45 minutes / Total build 19 inches

FSI No blow back

Rec 93	Feet of GIP	100 %gas	%oil	%water	%mud
Rec 93	Feet of SOCMW	%gas	5 %oil	65 %water	30 %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total — BHT 115 Gravity — API RW .312 @ 53 °F Chlorides 27000 ppm

(A) Initial Hydrostatic	2560	☒ Test	1400	T-On Location	3:47 pm
(B) First Initial Flow	14	☒ Jars	250	T-Started	4:31 pm
(C) First Final Flow	32	☒ Safety Joint	75	T-Open	6:27 pm
(D) Initial Shut-In	1320	☐ Circ Sub		T-Pulled	11:42 pm
(E) Second Initial Flow	29	☐ Hourly Standby		T-Out	1:34 am
(F) Second Final Flow	56	☒ Mileage	134 134	Comments	
(G) Final Shut-In	1322	☐ Sampler			
(H) Final Hydrostatic	2538	☐ Straddle		☐ Ruined Shale Packer	
		☐ Shale Packer		☐ Ruined Packer	
Initial Open	45	☐ Extra Packer		☐ Extra Copies	
Initial Shut-In	60	☐ Extra Recorder		Sub Total	0
Final Flow	90	☐ Day Standby		Total	01859
Final Shut-In	120	☐ Accessibility		MP/DST Disc't	
		Sub Total	1859		

Approved By — Our Representative

Scale 1:240 Imperial

Well Name:	Keough 12-34		
Surface Location:	330' FSL 2475' FWL 34-28S-23W		
Bottom Location:			
API:	15-057-21043-00-00		
License Number:	5004		
Spud Date:	8/31/2020	Time:	5:30 PM
Region:	Mid Cont.		
Drilling Completed:	9/3/2020	Time:	8:54 AM
Surface Coordinates:	330' FSL & 2475' FWL		
Bottom Hole Coordinates:			
Ground Elevation:	2553.00ft		
K.B. Elevation:	2565.00ft		
Logged Interval:	4250.00ft	To:	5345.00ft
Total Depth:	5345.00ft		
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 12-34		
Location:	330' FSL 2475' FWL 34-28S-23W		
API:	15-057-21043-00-00		
Pool:	Developement	Field:	Mulberry Creek
State:	KS	Country:	Ford

LOGGED BY

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

CONTRACTOR

Contractor:	Duke Drilling Co., Inc.		
Rig #:	1		
Rig Type:	Mud Rotary		
Spud Date:	8/31/2020	Time:	5:30 PM
TD Date:	9/3/2020	Time:	8:54 AM
Rig Release:	9/11/2020	Time:	7:50 AM

TOTAL DEPTH

Measurement Type:		Measurement Depth:	TVD:

Measurement Type:	Measurement Depth:	TVD:
RTD	5345.00	5350.00
LTD	5350.00	5350.00

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.823241
Latitude:	37.558211
N/S Co-ord:	330' FSL
E/W Co-ord:	2475' FWL

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	9/5/2020	3807.00ft	5350.00ft

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	694 ft	23#	16	9/1/2020 12:00 PM
Int Casing					
Prod Casing	4.5 in	5349 ft	11.6#	126	

CASING SEQUENCE

Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	694.00 ft
Production	7.88 in	4.50	5349.00 ft

OPEN HOLE LOGS

Logging Company:	ELI		
Logging Engineer:	Jason Cappellucci		
Truck #:	3802		
Logging Date:	9/10/2020	Time Spent:	5
# Logs Run:	4	# Logs Run Successful:	4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5350.00ft	2.00		1
NDE/NEU/PE	4250.00ft	5350.00ft	2.00		1
Micro	4250.00ft	5350.00ft	3.00		2
Sonic	650.00ft	5350.00ft	3.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
9/5/2020	0.00ft	5350.00ft	Log Run Successfully

NOTES

ROCKS DESCRIBED ON DUNHAMS CLASSIFICATION SYSTEM

STRAIGHT HOLE SURVEY

Degree	Depth
3/4°	695'
3/4°	1192'
1°	1690'
3/4°	2232'
1°	2705'
1°	3209'
1°	3807'
1°	4312'
1°	5098'

REFERENCE WELLS

A	B
Vincent Oil Corp.	Vincent Oil Corp.
Perkins #2-3	Keough #6-34
540' FNL & 2520' FEL	2140' FSL & 1458" FWL
3-29-23W	34-28-23W

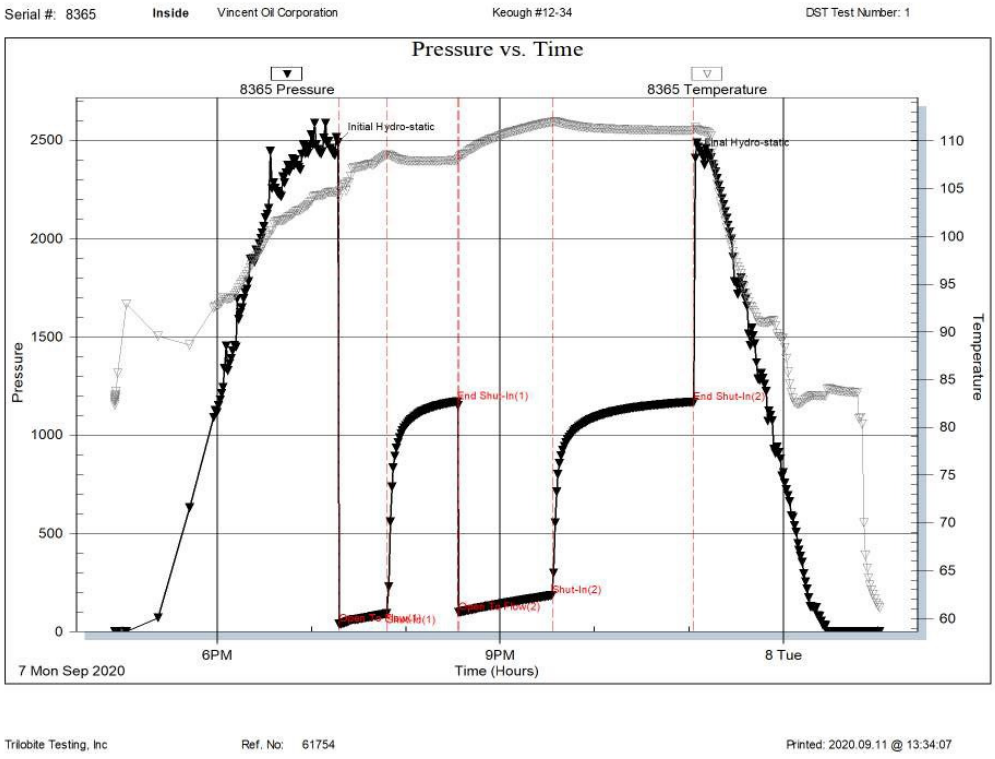
SAMPLE TOPS REF. WELL — **ELECTRIC LOG REF. WELL**

A B

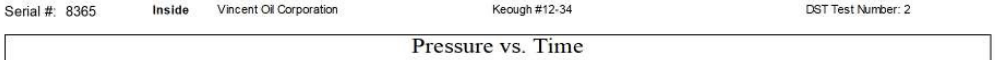
Heebner Shale	4377 (-1812)	-3 -4	4378 (-1813)	-4 -5
Brown Limestone	4515 (-1950)	-2 -5	4520 (-1955)	-7 -10
Lansing-Kansas City	4526 (-1961)	-3 -5	4530 (-1965)	-7 -9
Stark Shale	4868 (-2303)	-7 -12	4870 (-2305)	-9 -14
Hushpuckney Shale	4909 (-2344)	-8 -11	4912 (-2347)	-11 -14
Base Lansing-K.C.	4985 (-2420)	-2 -12	4986 (-2421)	-3 -13
Marmaton	5001 (-2436)	Flt -8	5005 (-2440)	-4 -12
Pawnee	5077 (-2512)	-3 -14	5080 (-2515)	-6 -17
Cherokee Shale	5127 (-2562)	-2 -16	5129 (-2564)	-4 -18
Mississippian	5246 (-2681)	-1 -18	5251 (-2686)	-6 -23
RTD / LTD	5345 (-2780)		5350 (-2785)	

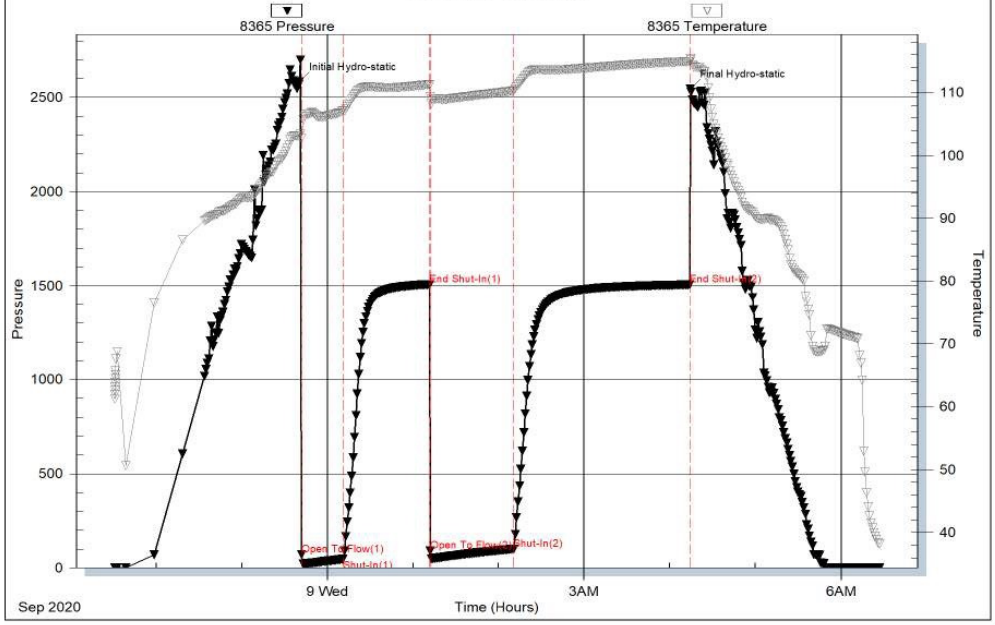
8/31/2020 Spud well in at 5:15 PM, drilled 12 ¼" surface hole to 695'. CTCH, Ran wiper trip, CTCH. Ran 16 joints, new 8 5/8", 23# surface casing. Set at 694' and cemented with 150 sx MDC (3% CC & ¼# Flo-seal/sx) and 150 sx Common (2% Gel, 3% CC & ¼# Flo-seal/sx). Cement did circulate. Plug down at 6:00 AM 9/1/2020.
9/1/2020 At 695', Waiting on cement. Tested BOP.
9/2/2020 At 1658', drilling ahead
9/3/2020 At 2785', drilling ahead
9/4/2020 At 3500', drilling ahead, displaced mud system at 3807'
9/5/2020 At 4230', drilling ahead
9/6/2020 At 4732', drilling ahead
9/7/2020 At 5060', drilling ahead. Drilled to 5098', Preparing for DST #1
9/8/2020 At 5128', drilling ahead. Drilled to 5273', preparing for DST #2
9/9/2020 At 5273', preparing to drill ahead following completion of DST #2. Drilled ahead to 5294'.
9/10/2020 At 5333', drilling ahead. Reached RTD (5345') at 8:54 AM 9/10/2020, CTCH for logging. TOOH for logs. Ran electric logs (DIL, Density-Neutron, Micro-log and Sonic) Found LTD at 5350'. TIH, CTCH, TOOH laying down drillpipe & drill collars, nipped down BOP.
9/11/2040 At 5345'. Rigged up casing crew to run casing. Ran 126 joints of 4.5", 11.6# production casing. Tagged bottom at 5350', picked up casing 1' to 5349' and CTCH. Rigged up cementers and cemented production string with 175 sx Pro-C cement. Plugged the rathole with 30 sx and plugged the mousehole with 20 sx. Plug was down at 7:30 Am 9/11/2020. Cleared the pits and released the rig.

DST #1



DST #2

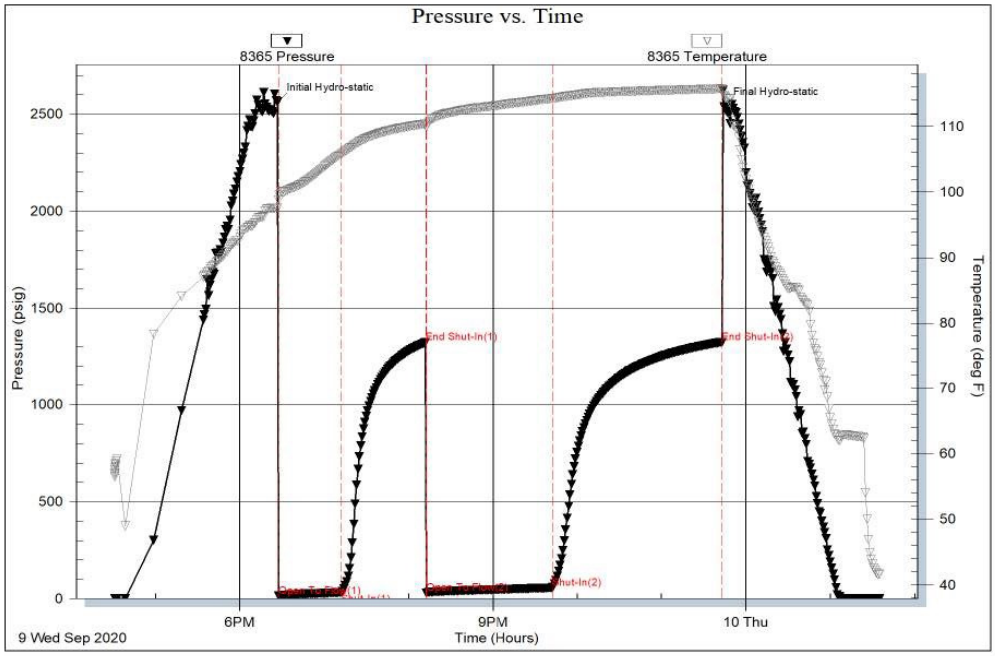




Trilobite Testing, Inc Ref. No: 61755 Printed: 2020.09.11 @ 13:33:41

DST #3

Serial #: 8365 **Inside** Vincent Oil Corporation Keough #12-34 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 61756 Printed: 2020.09.11 @ 13:32:52

ROCK TYPES

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

ACCESSORIES

MINERAL
- Argillaceous
- Calcareous
- Carbonaceous Flakes
- Chert, dark

FOSSIL
- Bioclastic or Fragmental
- Bryozoa
- Crinoids
- Fossils < 20%

STRINGER
- Sandstone

TEXTURE
- Chalky
- Earthy
- FinexIn
- MicroxIn

Chert Pebble, white
Pyrite
Sandy
Silty
Euhed rhombs of dol or
Chert White
Oolite

OTHER SYMBOLS

POROSITY TYPE
- Intercrystalline
- Interoolitic
- Vuggy
- Pinpoint
- Moldic
- Organic
- Fracture
- Earthy
- Fenestral

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

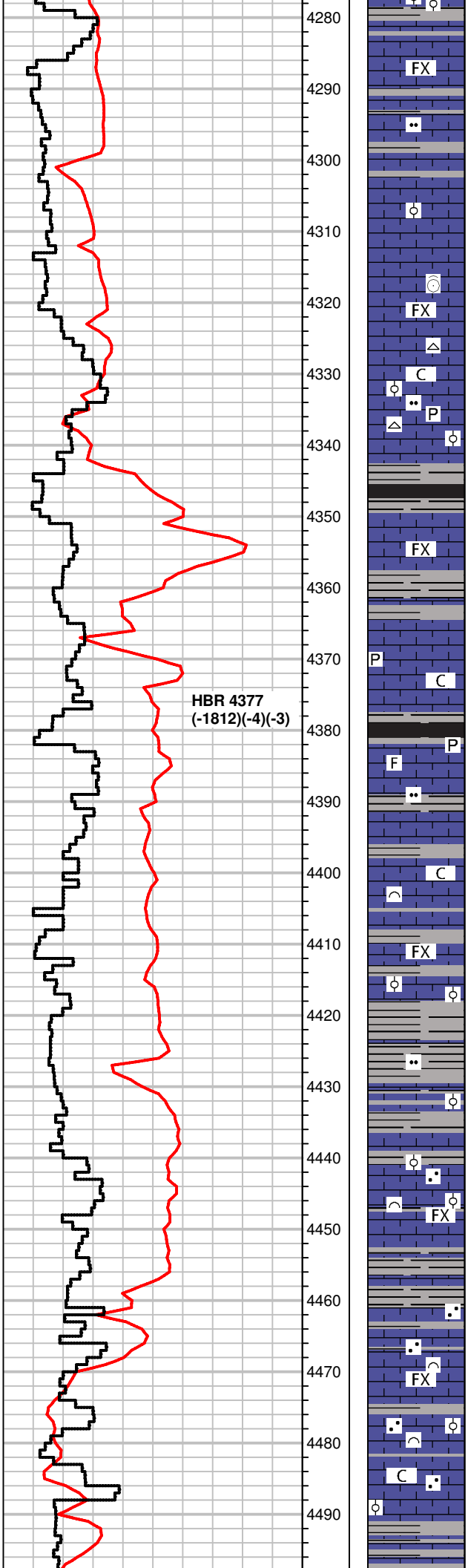
INTERVALS
- Core
- DST

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

Curve Track #01
Total Gas (units)
ROP (min/ft)
1:240 Imperial

Depth | Intervals	Cored Interval	DST Interval	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
4160						GEO ON LOCATION @ 08:30 9/5/2020	
4170						DISPLACED MUD SYSTEM @ 3807'	
4180							
4190							
4200							
4210							
4220							
4230						WS-MS, crm to tan, f-xln, oolitic/gritty txt, firm to friable, fossilif., NS, some SH, red to grays	
4240						MS-WS, crm to gray, massive to f-xln, dense, oolitic, fossils, Chert, wht	
4250						MS, crm to off wht, lt. gray, f-xln to chalky, gritty in pt., friable, fossils, NS, some pcs sandy, SH, grays	
4260						WS-PS, tan to brn, some crm, f-gr oolitic/moldic, chalky mtrx in prt, some pcs dense, hard to brittle, NS, moldic por.	
4270						MS, crm to gray, f-xln to gritty, dense, scatt fossils, some pcs massive, NS, scatt SH, grays	

0 Total Gas (units) 200
0 ROP (min/ft) 10
0 Total Gas (units) 200
0 ROP (min/ft) 10
FX
C



MS, tan to brn, some gray, A.A., mic-xln to massive, some fossils, scatt SH, grays

SH, grays, limey, MS-WS, crm to brn, f-xln to m-xln, some pcs massive, hard/dense, gritty txt in pt., fossils, NS

MS, gray to tan, brn, f-xln to gritty, massive pcs rare, dense, some SH, dk. gray

MS-WS, crm to tan, f-xln, chalky, firm to dense, fossils, scatt sub oolitic to fossilif pcs, criniods, NS

MS, crm to tan, A.A., massive pcs, dense, Chert, wht

MS-WS, crm to tan, f-xln to gritty, scatt massive pcs, dense, rare chalky, f-gr oolitic/fossilif., cherty pcs, pyrite, NS

SH, gray to blk, carb.

+85 UGK, shale gas

SH, blk to dk. gray, MS-crm to tan, f-xln to m-xln, gritty, fossilif., dense, some pcs chalky/friable, NS

Scatt SH, blk to grays, MS, tan to off wht, gray, chalky to f-xln, gritty to fossilif., pyrite, NS

SH, blk to dk. gray, slil carb., pyrite flakes, sli. gassy

+10 UGK, shale gas

MS, crm to off wht, f-xln, dense, silty pcs, scatt chalky, some fossils, NS

scatt SH,blk to gray, MS, crm to tan, some gray, f-xln, firm to friable, fossils, chalky in pt., NS

MS-WS, crm to lt. gray, gritty/shaly in pt., f-xln pcs, firm, chalky to micro oollitic pcs, scatt SH, grays

SH, gray to blk, MS-WS, crm to tan, lt. gray, f-xln, m-gr oolitic, ringed ooids w/ dark nucleus, hard to dense pcs, shaly in pt., mineral fluor, NS

Influx MS, crm, vf-xln to chalky pcs, some massive, friable to soft., scatt fossils, Chert, wht, mineral fluor
SH, grays to red

SH, dk. gray to green, sandy, MS, off wht to crm, f-xln to massive, chalky, dense, some sandy, oolitic/fossilif., min. fluor, NS

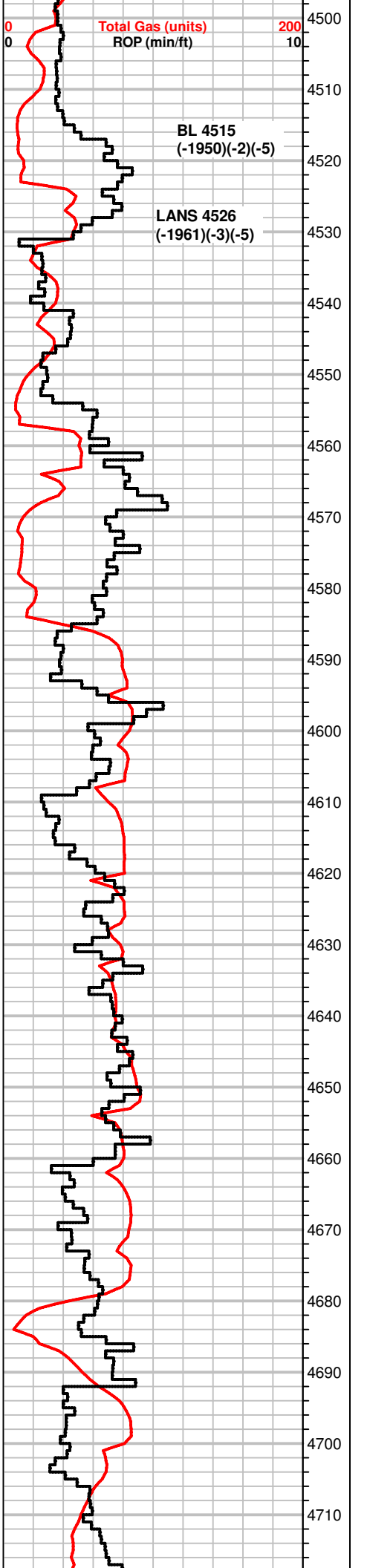
MS-WS, brn to crm, f-xln, dense, some pcs sandy, scatt mottled pcs, fossils, SH, blk to gray, greenish gray

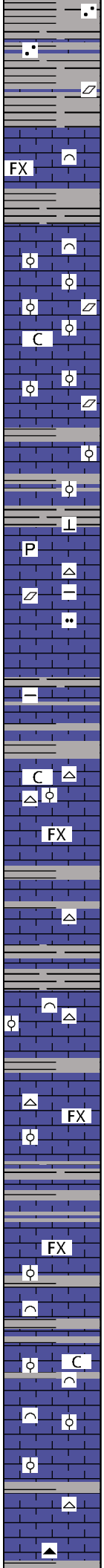
WS-MS, gray to crm, f-xln, dense, fossilif/oolitic, sandy pcs, HS, grays, green, silty to sandy

SH, gray, silty, pyrite, MS-WS, crm to brn/gray, f-xln, shaly, some mottle pcs, oolitic in pt., scatt fossils, NS

lesser SH, blk to grays, MS-WS, crm to gray, f-xln, gritty, oolitic to fossilif., some pcs chalky, most dense/hard, NS

WS-MS, crm to tan, brn, f to m-gr oolitic/fossilif., firm, friable, some





pcs dense, chalky mtrx, mottled pcs, sandy, Chert, tan
SH, blk to gray

SH, gray to green, sandy, MS-WS, crm to tan, sub oolitic, calcite, min flour, NS

influx SH, gray to blk
MS-WS, crm to tan, brn, f-xln/massive, dense, fossilif., some barren, scatt mottled pcs, NS

SH, blk, gray, green, red, MS-WS, gray to brn, crm, f-xln, dense, some m-gr oolitic/bioclastic, calcite, shaly pcs,

MS-WS, brn to crm, f-gr oolitic, fossilif., some chalky, dense to friable, dull fluor, NS

MS-WS, crm to lt. tan, f-xln/gritty pcs, oolitic to fossilif. firm, chalky matrix, calcite, NS

MS-WS, crm to lt. tan, lt. gray, chalky, sli. fossilif. pcs, some sandy, massive/dense, NS, SH, grays, brn

SH, blk to gray, MS, crm to tan, lt. gray, massive/f-xln, chalky in pt. rare fossils, pyrite, calcite, Chert, opaque

MS, crm, A.A., some fossils, most massive, hard, shaly in pt.
SH, green, gray, red, striated pcs, some silty

some SH, green, gray, red, MS, crm to gray, chalky to massive, firm to dense, sub oolitic/fossilif pcs scatt, calcite, NS

WS-MS, crm to off wht, chalky mtrx, gritty in pt., sub oolitic, dense/massive pcs, Chert, wht, some SH, gray, limey

SH, gray to brn, MS, crm to gray, ssome crm, f-xln, dense, rare fossils, chalky to shaly pcs

MS, A.A., in in crm pcs, gritty to massive, dense, Chert, wht
some SH, grays

SH, gray, MS, brn to crm, f-xln/massive txt to chalky, most pcs hard/brittle, some soft, rare fossils, scatt Chert, wht, gray, fossils

SH, grays, brn, MS-WS, crm to brn, f-xln to gritty, mottled pcs, most dense, some soft/friabe pcs, fossilif pcs scatt, NS

MS, gray to tan, mic-xln to massive txt, hard/dense, barren, scatt fossils, NS, Chert, opaque, fossils

MS, crm to gray, f-xln, dense, A.A., some pcs chalky, soft, scatt fossils, SH, gray, green

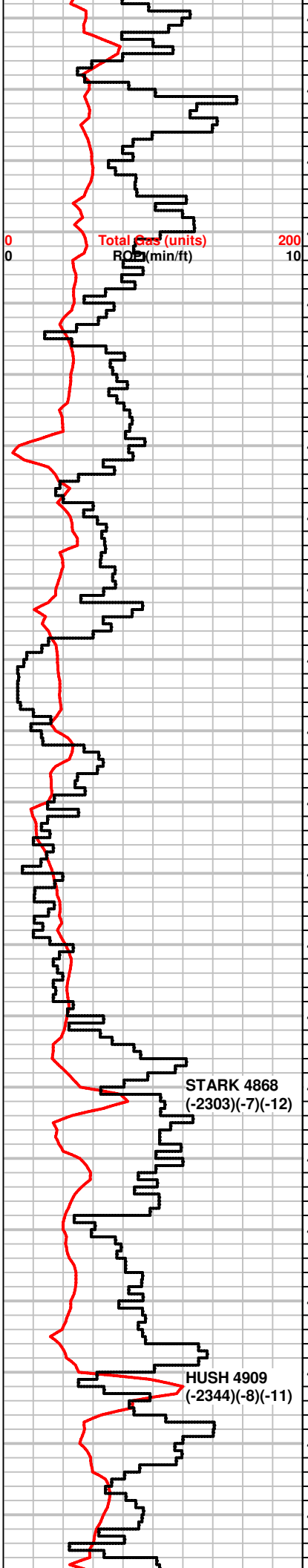
MS, gray to crm, f-xln to massive, most dense, some soft, chalky, scatt fossils, SH, blk to gray, silty

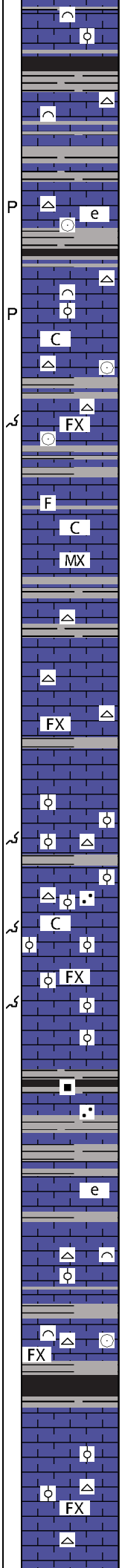
SH, gray, red, green, MS-WS, lt. gray to crm, chalky/fossilif., massive pcs, dense, NS, lesser fossils

MS, crm to tan, f-xln to earthy, hard/dense, scatt sub oolitic pcs, NS, some SH, gray

MS, A.A., some lt. gray, f-xln, gritty, fossililf. pcs, Chert, wht, fossils, scatt SH, gray, red

MS, crm to off wht, tan, chalky to f-xln, friable/soft, scatt fossils, Chert, brn, rare SH, grays





MS, brn to crm, f-xln/massive, dense, chalky in pt., some sandy pcs/gritty, glauc, fossilif pcs scsatt, NS, Chert, wht, fossils
SH, blk, green

SH, blk, gray, MS, brn to crm, off wht, A.A., hard, brittle, lesser fossils, PP por., shaly in pt.

MS-WS, crm to gray, f-xln to earthy, some pcs massive/dense, sandy to silty, rare fossils, NS, rare Chert, wht,
SH, grays

MS, crm to brn, earthy/chalky, some pcs massive/dense, friable, fossils, PP por., SH, gray, green, rare blk

MS-WS, crm to rare brn, A.A., most friable, soft, fossils, crinoids, Chert, wht, fossils, SH, gray to green

MS-WS, off wht to crm, f-xln to chalky txt, firm to soft, sub oolitic/fossilif pcs scatt, NS, moldic por.

SH, gray to green, MS, brn to crm, massive to f-xln, dense, chalky pcs scatt, pyrite, NS

influx SH, gray, red, gree, MS, crm, chalky, friable, some f-xln, dense (rare), scatt fossil frgmts, NS

some SH, A.A., MS, crm to tan, f-xln, dense, massive, some chalky, Chert, wht, fossils

Inc. in SH pcs, grays, silty, some green, MS-WS, crm to tan, massive to dense, some fossilif. pcs, friable, Chert, wht, tan, fossils

WS-MS, brn to crm, massive/mic-xln, dense, m-gr ooiltic in hard calc. mtrx, some pcs chalky, soft, Sh, green, gray, silty to limey pcs.

WS-PS, crm to tan, f-xln, friable to some dense, m-gr oolitic/moldic, dk. ooids in partly chalky mtrx, some Chert, tan, SH, grays, some pcs sandy

WS-PS, crm to brn, f-xln to m-gr oolitic/moldic pcs, dense to friable, A.A., some w/ tite calc. mtrx, mineral fluor, NS, SH, grays

MS-WS, brn to tan, f-xln to earty, some sub oolitic/micro oolitic, dense to firm, gritty in pt., NS

WS-PS, brn to tan, f-xln to m-gr oolitic/fossilif, moldic, chalky, some friable, most hard/dense, NS rare SH, blk, gray,

+50 UGK, shale gas

SH, blk gray, sli. carb.
MS-WS, crm to tan, brn, earthy to f-xln, some mic-xln, dense, A.A., lesser oolitic pcs, dull fluor, NS, Chert, gray

MS-WS, crm to brn, mic-xln/massive, some chalky, firm to dense, fossilf, Chert, tan, gray
scatt SH, gray, brn, sandy,
MS, crm, f-xln, massive, waxy looking, some chalky, dense to firm, lesser fossils, Chert, wht, tan

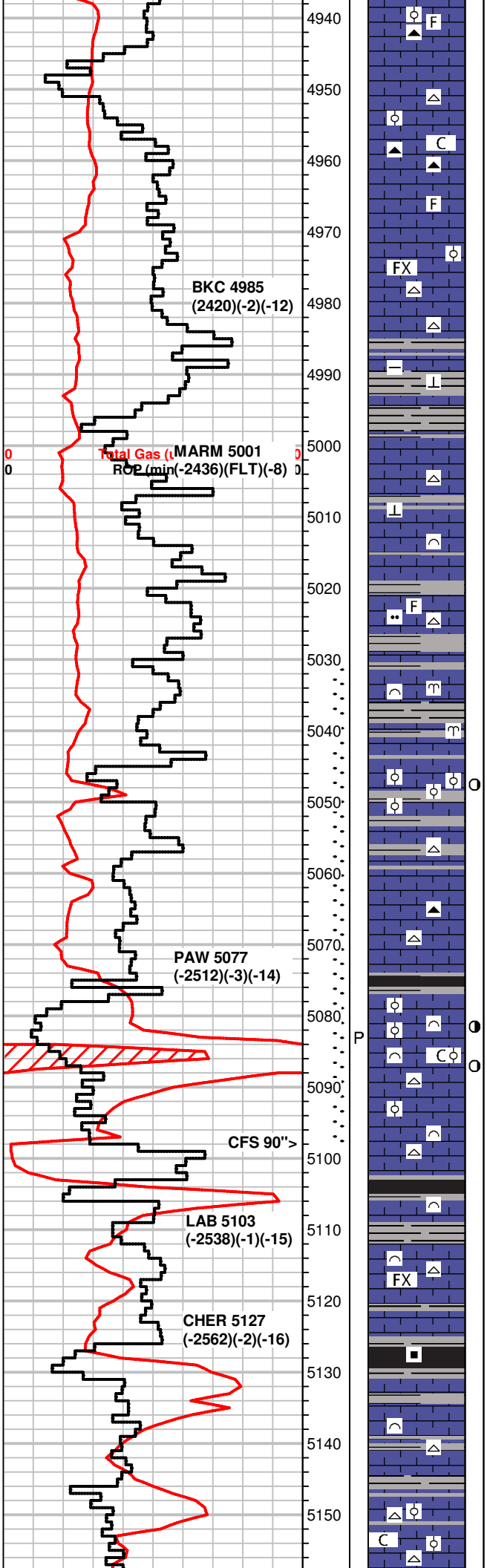
MS, crm to gray, shaly in pt., f-xln to gritty, dense, some fossils, Chert, opaque, fossils
SH, blk, gray, carb.

+75 UGK, shale gas

MS-WS, crm tn tan, brn, f-xln to massive, sub oolitic, gritty txt, hard to brittle, some chaly pcs, scatt fossils, Chert, tan, wht

MS, gray to crm, f-xln to earthy, some pcs chalky, brittle, friable, fossilif., shaly in pt., Chert, wht, carrying SH, gray brn, sandy

MS-WS, crm to tan, some gray, f-xln to m-xlnk, scatt massive pcs,



MS, crm to brn, massive to f-xln, dense, fossils, chalky pcs scatt, SH, gray to blk

MS, crm to gray, f-xln to gritty, silty, chalky in pt., firm to dense, fossils scatt., Chert, gray, blk
SH, blk to grays

MS, brn to tan, massive to f-xln, dense, some pcs chalky, soft, scatt sub oolitic pcs, Chert, tan, wht, fossils, lesser HS, grays to blk

MS, brn to gray, crm, massive to f-xln, dense, some gritty, rare fossils, Chert, tan
SH, blk to gray

DST #1 5030-5098
30-45-60-90
GB blt to 10.5 inches
NBB
BOB 53 min
NBB
Rec:
31' GIP
155' OSMW
186' MW
IH 2490#
IF 40-91#
ISIP 1169#
FF 99-185#
FSIP 1167#
FH 2410#
Temp 112*F
Rw .375 @ 64*F
Cl 19,000 ppm

SH, grays, sandy to limey
MS, gray to brn, A.A., f-xln, dense, shaly in pt., Chert, wht

SH, blk, to gray, striated
MS, tan to gray, f-xln, dense, fossils, some Chert, brn

MS, tan to brn, lesser gray, massive to chalky pcs, some fossils, dense, NS, lesser SH, grays, limey in pt.

MS, off wht to crm, massive, waxy looking, rare fossils, Chert, tan, wht, SH, gray, greenish grays, silty in pt.

SH, blk to gray
MS, gray to crm, chalky to f-xln, dense, fossils(coral/bryazoan), calcite, NS

SH, gray to dk. gray
MS-WS, crm to tan, f-xln to massive txt, tite calc mtrx, m-gr oolitic/fossilif to sub oolitic pcs, some PS, M-gr oolitic/moldic, some pcs chalky, ft. odor, scatt bri. fluor, inst. cut(50% pcs), some slow milky cut, spty lt. brn stn, some Chert, tan,

+45 UGK, +15 UGK recycle

MS-WS, crm to brn, massive, dense, dull fluor, NS, Chert, brn, tan fossils, dec. show(carried samples)

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

SH, blk, grays, silty to carb in pt.

+45 UGK, shale gas

WS-PS, crm to tan, chalky to f-xln, dense to friable pcs, most hard, fossilif/frgmntal, m-gr oolitic to moldic pcs scatt/some calcite, fair odor in bag, scatt bri fluor, oil droplets when broken, rare free oil in tray, rare spty stn in wet, very spty stn dry, PP por.

+295 UGK, w/ +100 UGK recycle

MS-WS, brn to crm, f-xln, dense, fossilif.
SH, blk, grays

Trip gas +Shale gas

WS-MS, brn to tan, f-xln/massive, fossils, Chert wht, fossils

MS, lt. gray to tan, chalky to dense, hard, scatt fossils, some Chert, tan, wht, scatt SH, gray to blk

trip gas recycle

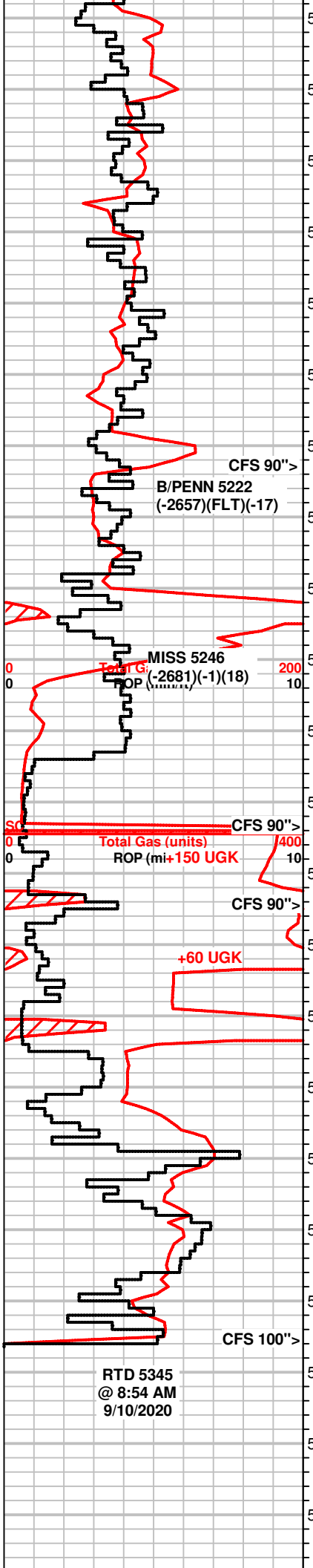
SH, blk, gassy, carb, grays

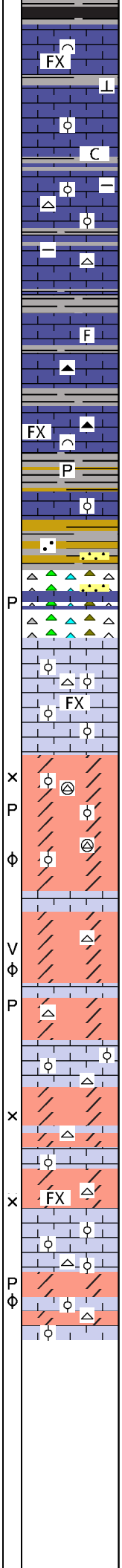
+105 UGK, shale gas

MS, tan to crm, chaly to f-xln, dense pcs, some scatt fossilif pcs, rare Chert, wht

MS scatt WS, brn to tan, f-xln, dense, friable, fossils, shaly in pt.

MS-WS, brn to tan, crm, f-xln chalky pcs, some dense, sub oolitic/fossilif pcs, Chert wht





	SH, blk to green	
	SH, gray to blk MS, crm to tan, chalky to earthy, some f-xln, hard/britte, fossils scatt, pyrite flakes, some calcite veins, NS	
	MS-WS, brn to tan, f-xln to massive, some pcs chalky/shaly in pt., dense, fossils, NS, Chert, tan, SH, gray to blk, limey in pt.	
	MS-WS, tan to brn, massive, some f-xln, A.A., most dense, some fossils, mottled pcs, sandy, NS, Chert, tan, wht, fossilif., SH gray, sandy	
	SH, blk to sea green, varying grays, MS, gray to crm, f-xln to earthy, shaly in pt., fossils scatt, NS	
	SH, blk to grays MS-WS, crm to brn, some gray, massive to f-xln, hard to brittle, fossilif., dense, dull fluor, NS, rare Chert, brn	
◑	MS, brn to crm, f-xln, dense, fossils, hard to brittle, bri fluor(5% tray), spty to even stn in wet, inst strmng cut, free oil in tray, no odor, PP por. to no vis por., rare 50% sat in dry	**+55 UGK**
	SH, gray to blk, green, rare SS clusters, f-gr, well srtd, sub rnd, firm to hard, ft. odor in bag	
	SH, mustard yellow, red, greens, striated, waxy, some pcs sandy, MS, tan to brn, f-xln, dense, fossils, NS	
◑	Chert, varicolored, most fresh, some w/ wthrd edges, fossilif., good odor in bag, live oil, tarry dk stn in vugs and por., isnt cut, carrying SH, varicolored	**+164 UGK, 15 UGK recycle**
	WS-PS, off wht to tan, f-xln, sub oolitic to fossilif., dense pcs, hard to friable, some partly chalky, NS	**DST #2 5258-5273 30-60-60-120 BOB 2 min NBB BOB 15 sec GTS on bleed off, 4.75 inch BB Rec: 217' Fluid Total 62' GO (5g,95o) 155' GWCMO (40g,40o,15m,5w) IH 2582# IF 41-47# ISIP 1506# FF 91-101# FSIP 1505# FH 2544# Temp 115*F Gravity 39*API**
◑	Dolo, tan, f to m-xln, friable, some pcs firm, sugary txt in pt to fossilif. pcs, chert frgmts, good odor, bright fluor, even stn, live and bleeding oil, inst cut, even stn dry, PP to int-xln por. rare cherty frgmts	
◑	Dolo, crm to tan, f-xln sugary txt to m-gr oolitic/fossilif, cherty pcs scatt, hard to firm, gd odor, spty to even stn wet, live oil, some pcs bleeding oil, bright fluor, PP, oolitic, int-xln por., even to spty stn dry	
◑	Dolo, tan to crm, f-xln to m-xln, sugary txt, some pcs w/ cherty and oolitic frgmts, some spty to rare even stn, fair odor, inst to slow milky cut	
◑	Dolo, crm to tan, f-xn to m-xln, fossilif to cherty frgmts, hard to firm pcs, dull mineral to v. spty bright fluor, fair odor in bag, no cut to strmg cut when broken, no vis stn wet, light spty stn dry, PP to vuggy por.	
	WS-PS, off wht, f-xln to mic-xln, dense, oolitic, hard to friable, scatt sli. chalky pcs, NS	**DST #3 5284-5294 45-60-90-120 GB blt to 9 inches NBB BOB 45 min, blt to 19 inches NBB 93' GIP Rec: 93' SOCMW (5o,30m,65w) IH 2560# IF 14-32# ISIP 1320# FF 29-56 FSIP 1322# FH 2538# Temp 115*F Rw .312 @ 53*F Cl 27,000 ppm**
	Dolo, crm to tan, f-xln to sugary m-xln txt, dull mineral fluor, no odor, no stn wet WS-PS, off wht to crm, oolitic, dense, NS	
	scatt Dolo, crm to tan, vf-sucrosic txt, firm to hard, scatt pcs w/ m-gr chert frgmts, NS	
	WS-PS, crm to off wht, f-xln, m-gr oolitic, chalky mtrx in scatt pcs, hard to firm, NS	
	Scatt Dolo, crm to brn,vf-suc txt, firm, some pcs w/chrt frgmts, A.A., NS WS-PS, crm to off wht, m-gr oolitic, chalky mtrx in pt., NS	

5380

5390

5400

5410

5420

5430

5440

Dolomite Zone-

The cuttings manifested as a brown to cream, medium to fine crystalline, sometimes fine sucrosic dolomite. Within the dolomite, chert fragments were present throughout the zone. The chert fragments were observed from very fine to coarse in size. In some instances, cuttings were large chert pieces with dolomite on edge. Letting some of the cuttings sit in acid left no traces of dolomite, left behind were the undisolved fragments of chert/silica

The dolomite zone displayed shows ranging from strong odor, total saturation and stain, bleeding oil and gas all the way down to partial staining with no visible stain. The latter pieces, while not displaying stain, were bright under UV light, with oil cut only when broken. The chert present in the rock dictates porosity. A large portion of the dolomite is very hard, with some pieces being friable.

The larger percentage of chert present in some cuttings made select pieces more difficult to crush or break apart, indicating tite rock, which is shown on the drill stem test charts.