

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

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

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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	JONES TRUST 5-23
Doc ID	1454438

All Electric Logs Run

Dual Induction
Density- Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	JONES TRUST 5-23
Doc ID	1454438

Tops

Name	Top	Datum
Heebner Shale	3180	(-1560)
Brown Limestone	3364	(-1744)
Lansing	3376	(-1756)
Stark Shale	3715	(-2093)
Hertha	3758	(-2138)
Cherokee Shale	3960	(-2340)
Mississippian	4056	(-2436)
RTD	4175	(-2555)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	JONES TRUST 5-23
Doc ID	1454438

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	4057	4066			Perf Mississippian , 4057' to 4066'. ran in with 15' MA, SN & new 2 3/8" tubing
					set tubing at 4106', Acidized with 750 gal 15% MCA, ,
					total load 77 bbl, rigged up to swab, swabbed 64 bbl in 3 hrs, SDFN
					FL at 1800', swabbed 12.5 bbl of water & well kicked off flowing,
					final rate 267 MCFG/D with 1.6 bbl water, SWI and rigged down.

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	JONES TRUST 5-23
Doc ID	1454438

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
					Set surface equipment, laid lines set meter and turned to production



# QUALITY WELL SERVICE, INC.

6988

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410  
Fax 620-672-3663

Rich's Cell 620-727-3409  
Brady's Cell 620-727-6964

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-27-18	23	29S	3W	Kingman	KI		
Lease JONES-TRUST	Well No. 5-23	Location Kingman KS SW 35 2 1/2 E S10					
Contractor DOKE Dlg Rig # 8				Owner			
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. 310'			Charge To Vincent O.L Corp			
Csg. 8 1/2	Depth 305'			Street			
Tbg. Size	Depth			City State			
Tool	Depth			City State			
Cement Left in Csg. 25	Shoe Joint 25'			The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line	Displace 17.9			Cement Amount Ordered 275 x 60/90 21.66L31 CC			
<b>EQUIPMENT</b>				1/4' CF			
Pumptrk 8 No.	TJ			Common 165			
Bulktrk 4 No.	JAKE			Poz. Mix 110			
Bulktrk No.				Gel. 5			
Pickup No.				Calcium 9			
<b>JOB SERVICES &amp; REMARKS</b>				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Run 7 1/2" 8 1/2" csg set 305'				Sand			
START csg csg on Bottom				Handling 289			
Hookup to csg & Break Circ wiring				Mileage 30			
START Pumping 10 Bbls H2O				3 1/2			
START mix & Pump 275 x 60/90				<b>FLOAT EQUIPMENT</b>			
21.66L31 CC 1/4' CF				Guide Shoe Woodrow Plug			
SHUT DOWN Release Woodrow Plug				Centralizer			
START disp				Baskets			
Plug down 19.7 Bbls total				AFU Inserts			
Close Valve on csg 200'				Float Shoe			
Good Circ thru JOB				Latch Down			
Circ CRT TO P.T				SERVICE SUPERVISOR			
				LMV 30			
				Pumptrk Charge SURFACE			
Thank you				Mileage 60			
PLEASE CALL AGAIN							
1000 TJ JAKE							
Signature Tim Quinn							
						Tax	
						Discount	
						Total Charge	



# QUALITY WELL SERVICE, INC.

7004

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
12-7-18	23	28S	3W	Kingman	Ks		
Lease JONES-Trust		Well No. 5-23		Location Kingman Ks. W to 50 <sup>th</sup> 2.9 S to Curve			
Contractor DUKE Delg. Rig # 8				Owner 2.3 E to Cattle Guard S into			
Type Job Longstring				To Quality Well Service, Inc.			
Hole Size 7 7/8				You are hereby requested to rent cementing equipment and furnish			
Csg. 4 1/2 10.5				cementer and helper to assist owner or contractor to do work as listed.			
Tbg. Size				Charge To Vincent Oil Corp.			
Tool				Street			
Cement Left in Csg. 42.09				City			
Meas Line				State			
EQUIPMENT				The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk 8 No. DECEK				Cement Amount Ordered 2505x PRO C 21 GAL			
Bulktrk 7 No. JAKE				10% Salt 5% KOSCAL			
Bulktrk No.				Common 250x			
Pickup No.				Poz. Mix			
JOB SERVICES & REMARKS				Gel. 5x			
Rat Hole 30x				Calcium			
Mouse Hole 20x				Hulls			
Centralizers 1-3-5-7-9-11				Salt 28			
Baskets				Flowseal			
D/V or Port Collar				Kol-Seal 1250			
Run 99 H's 4 1/2 10.5' csg set @ 4170				Mud CLR 48 500 GAL			
START csg csg on Bottom Drop Ball				CFL-117 or CD110 CAF 38 CC-1 69AL			
Hook up to csg + Back Circ w/ rig 1 HR				Sand			
START Pumping 5 Bbls H <sub>2</sub> O 12 Bbls MI 5 Bbls H <sub>2</sub> O				Handling 283			
Plug R-M Holes 50x				Mileage 30			
SMET mix + Pump 200 sc Pro C Down csg				4 1/2 FLOAT EQUIPMENT			
SHUT DOWN Wash up tel + Release 4 1/2 TR Plug				Guide Shoe 1 EA			
START disp 21 KLL				Centralizer 6 EA			
Lift psi 500*				Baskets			
Plug down 1200* 65.7 out total				AFU Inserts 1 EA			
Release psi Float MEIN				Float Shoe			
1/4 Bbl Back				Latch Down 1 EA TOP R. bbsz Plug			
6000 csa thru 203				SERVICE SUPERVISOR			
Thank you				LMV 30			
PLEASE Call AGAIN				Pumptrk Charge 25			
DUKE DEKEL JAKE				Mileage 100			
Signature				Tax			
				Discount			
				Total Charge			



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

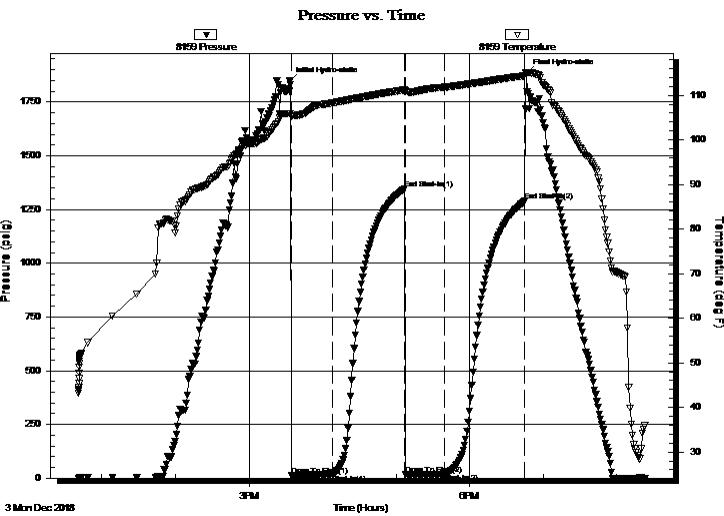
**23-28S-8W Kingman**  
**Jones Trust 5-23**  
Job Ticket: 64876      **DST#: 1**  
Test Start: 2018.12.03 @ 12:41:00

## GENERAL INFORMATION:

Formation: **Swope**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 15:34:32      Tester: Leal Cason  
Time Test Ended: 20:23:02      Unit No: 74  
**Interval: 3702.00 ft (KB) To 3730.00 ft (KB) (TVD)**      Reference Elevations: 1620.00 ft (KB)  
Total Depth: 3730.00 ft (KB) (TVD)      1612.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

**Serial #: 8159      Inside**  
Press@RunDepth: 20.87 psig @ 3703.00 ft (KB)      Capacity:      psig  
Start Date: 2018.12.03      End Date: 2018.12.03      Last Calib.: 2018.12.03  
Start Time: 12:41:01      End Time: 20:23:02      Time On Btm: 2018.12.03 @ 15:33:17  
Time Off Btm: 2018.12.03 @ 18:46:02

**TEST COMMENT:** IF: Weak Blow , Built to .75 inch  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.77	105.84	Initial Hydro-static
2	13.37	105.24	Open To Flow (1)
35	19.50	108.25	Shut-In(1)
94	1345.02	111.16	End Shut-In(1)
95	18.14	111.05	Open To Flow (2)
126	20.87	111.82	Shut-In(2)
192	1288.51	114.41	End Shut-In(2)
193	1883.02	115.14	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	SGCM 2%G 98%M	0.14

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

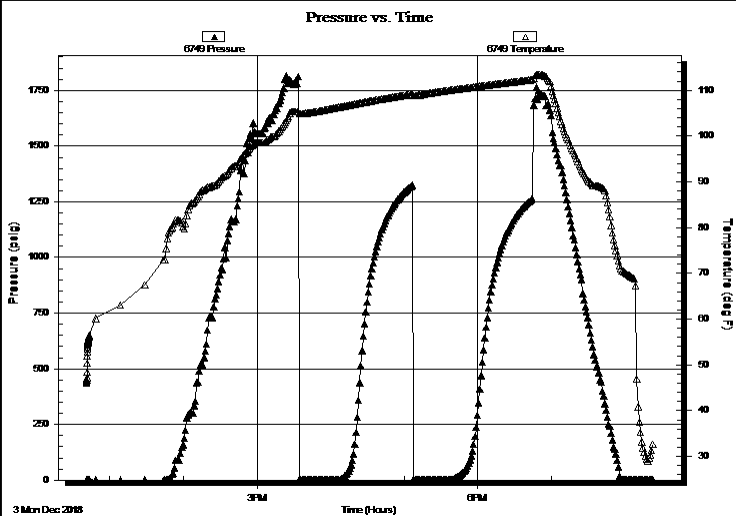
**23-28S-8W Kingman**  
**Jones Trust 5-23**  
Job Ticket: 64876      **DST#: 1**  
Test Start: 2018.12.03 @ 12:41:00

## GENERAL INFORMATION:

Formation: **Swope**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 15:34:32  
Time Test Ended: 20:23:02  
Interval: **3702.00 ft (KB) To 3730.00 ft (KB) (TVD)**  
Total Depth: 3730.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Leal Cason  
Unit No: 74  
Reference Elevations: 1620.00 ft (KB)  
1612.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6749      Outside**  
Press@RunDepth:                      psig @ 3703.00 ft (KB)      Capacity:                                      psig  
Start Date: 2018.12.03      End Date: 2018.12.03      Last Calib.: 2018.12.03  
Start Time: 12:41:01      End Time: 20:23:02      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: Weak Blow , Built to .75 inch  
IS: No Blow Back  
FF: Weak Surface Blow  
FS: No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SGCM 2%G 98%M	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

**23-28S-8W Kingman**

200 W Douglas Ave #725  
Wichita, KS 67202

**Jones Trust 5-23**

Job Ticket: 64876

**DST#: 1**

ATTN: Tom Dudgeon

Test Start: 2018.12.03 @ 12:41:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	SGCM 2%G 98%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

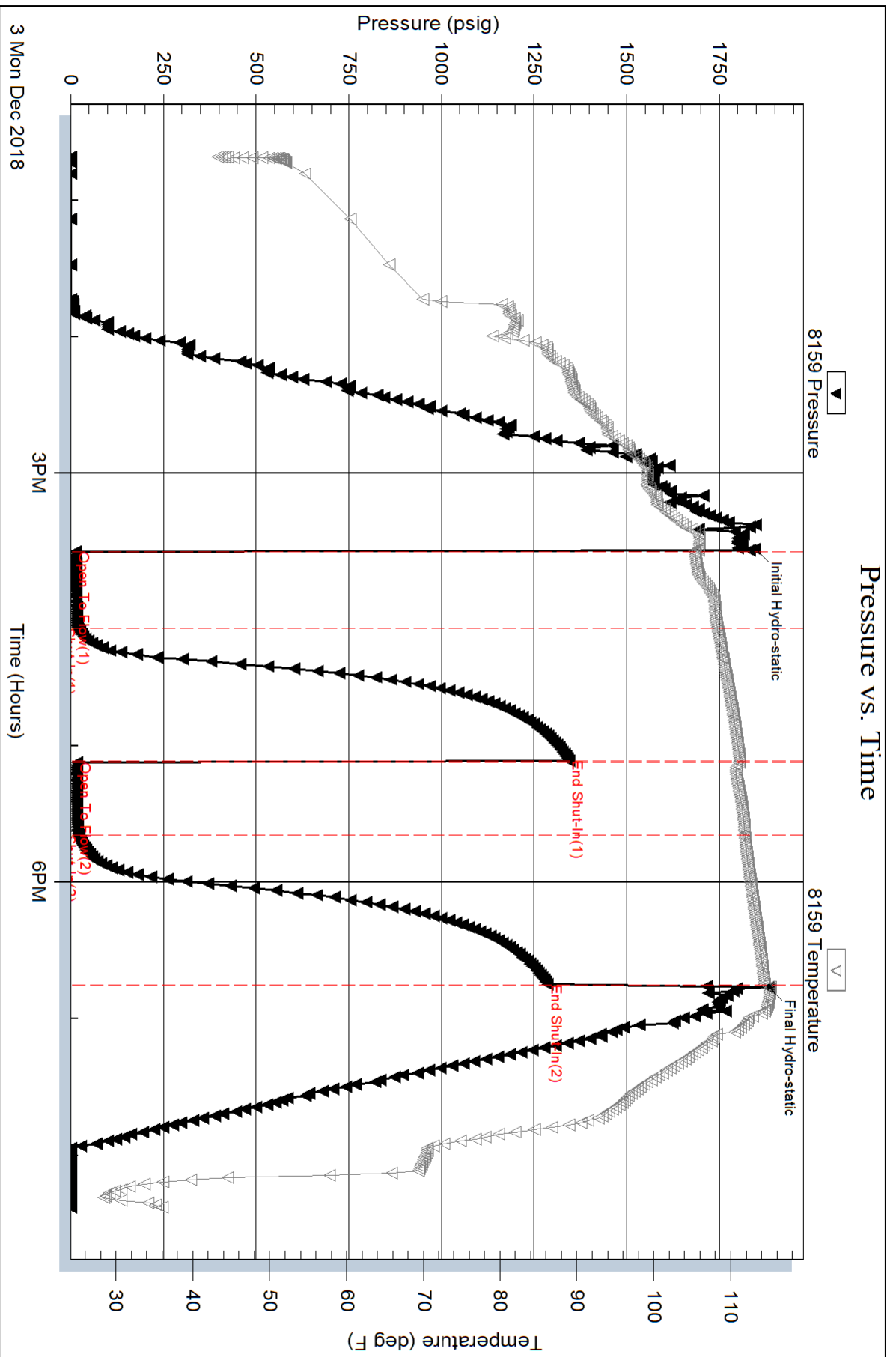
Num Gas Bombs: 0

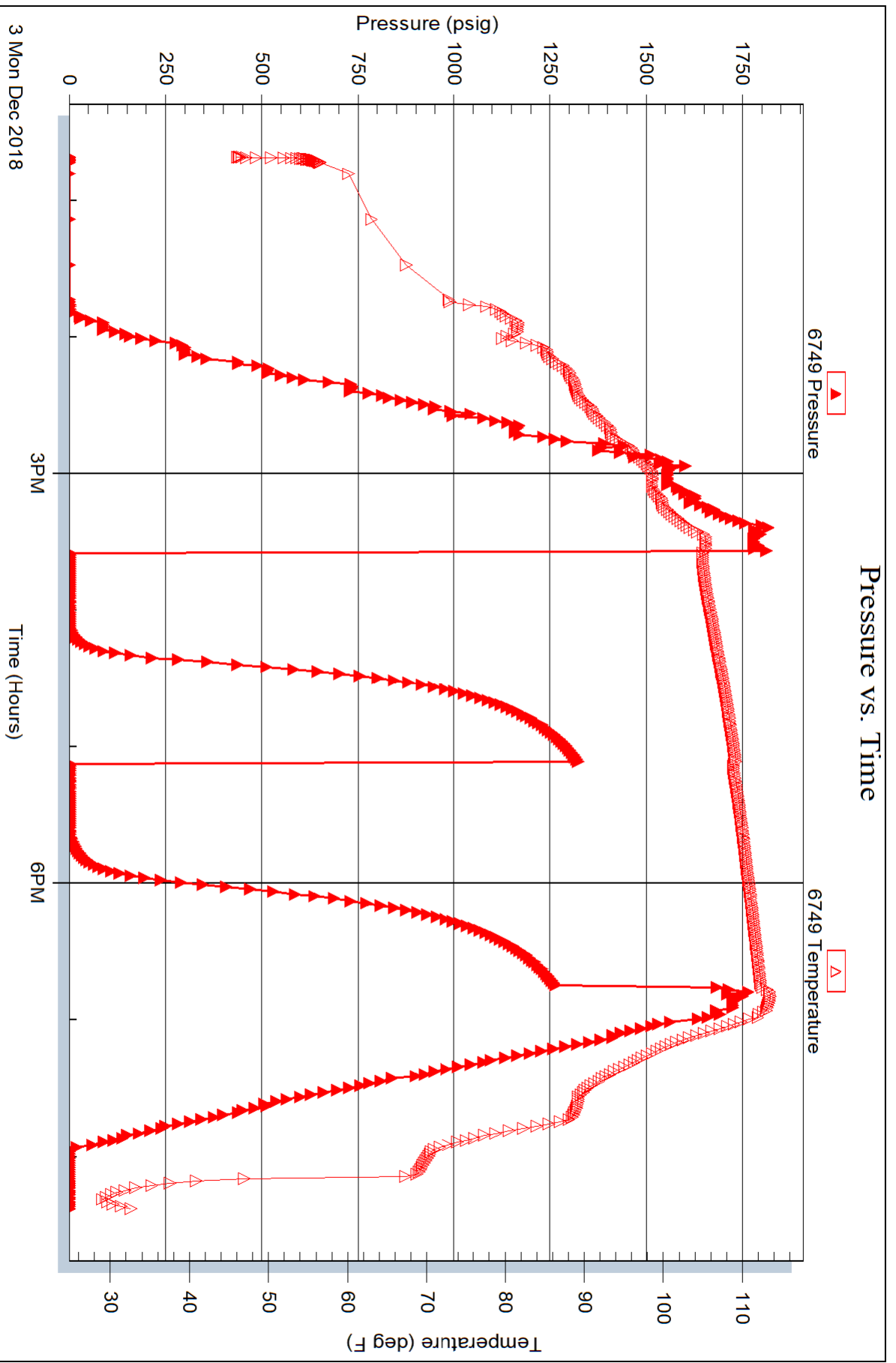
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







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 ATTN: Tom Dudgeon

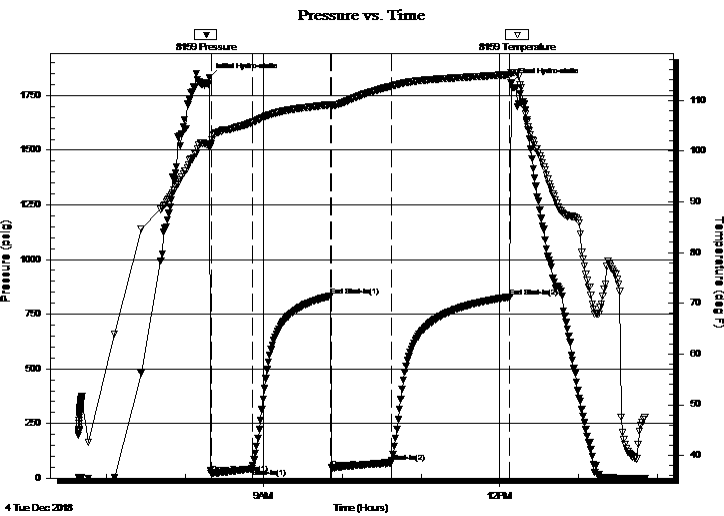
**23-28S-8W Kingman**  
**Jones Trust 5-23**  
 Job Ticket: 64877      **DST#: 2**  
 Test Start: 2018.12.04 @ 06:38:48

## GENERAL INFORMATION:

Formation: **Hertha**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:19:50  
 Tester: Leal Cason  
 Time Test Ended: 13:50:50  
 Unit No: 74  
 Interval: **3737.00 ft (KB) To 3770.00 ft (KB) (TVD)**  
 Reference Elevations: 1620.00 ft (KB)  
 Total Depth: 3770.00 ft (KB) (TVD) 1612.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8159 Inside**  
 Press@RunDepth: 71.96 psig @ 3738.00 ft (KB) Capacity: psig  
 Start Date: 2018.12.04 End Date: 2018.12.04 Last Calib.: 2018.12.04  
 Start Time: 06:38:49 End Time: 13:50:50 Time On Btm: 2018.12.04 @ 08:18:35  
 Time Off Btm: 2018.12.04 @ 12:08:35

**TEST COMMENT:** IF: Strong Blow , BOB in 4 minutes, Built to 61.5 inches  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 45 seconds, Built to 63 inches  
 FS: Weak Surface Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1830.21	100.89	Initial Hydro-static
2	23.30	101.38	Open To Flow (1)
33	43.46	105.62	Shut-In(1)
92	832.17	109.11	End Shut-In(1)
93	47.12	109.03	Open To Flow (2)
139	71.96	112.75	Shut-In(2)
229	828.37	115.08	End Shut-In(2)
230	1806.42	115.38	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	520 GIP	0.00
110.00	GOWCM 10%G 10%O 36%W 44%M	1.54

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

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

**23-28S-8W Kingman**  
**Jones Trust 5-23**  
 Job Ticket: 64877      **DST#: 2**  
 Test Start: 2018.12.04 @ 06:38:48

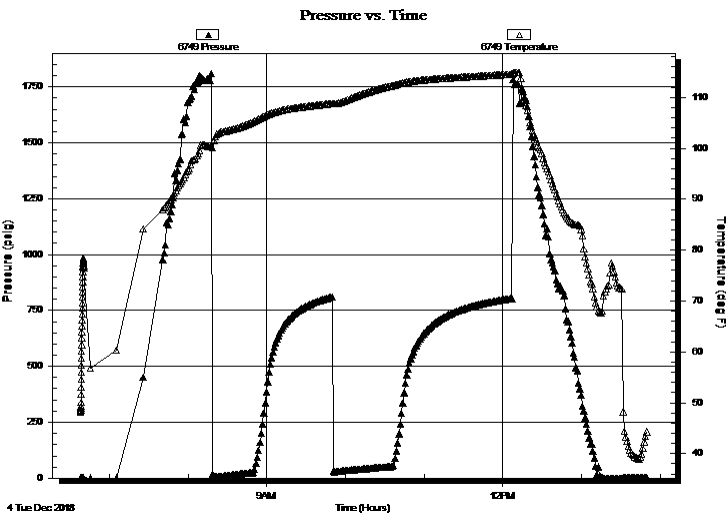
### GENERAL INFORMATION:

Formation: **Hertha**  
 Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:19:50      Tester: Leal Cason  
 Time Test Ended: 13:50:50      Unit No: 74

Interval: **3737.00 ft (KB) To 3770.00 ft (KB) (TVD)**      Reference Elevations: 1620.00 ft (KB)  
 Total Depth: 3770.00 ft (KB) (TVD)      1612.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

**Serial #: 6749      Outside**  
 Press@RunDepth:      psig @ 3738.00 ft (KB)      Capacity:      psig  
 Start Date: 2018.12.04      End Date: 2018.12.04      Last Calib.: 2018.12.04  
 Start Time: 06:38:01      End Time: 13:50:02      Time On Btm:  
    Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes, Built to 61.5 inches  
 IS: No Blow Back  
 FF: Strong Blow , BOB in 45 seconds, Built to 63 inches  
 FS: Weak Surface Blow Back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	520 GIP	0.00
110.00	GOWCM 10%G 10%O 36%W 44%M	1.54

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

**23-28S-8W Kingman**

200 W Douglas Ave #725  
Wichita, KS 67202

**Jones Trust 5-23**

Job Ticket: 64877

**DST#: 2**

ATTN: Tom Dudgeon

Test Start: 2018.12.04 @ 06:38:48

## 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:

72000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	520 GIP	0.000
110.00	GOWCM 10%G 10%O 36%W 44%M	1.543

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0

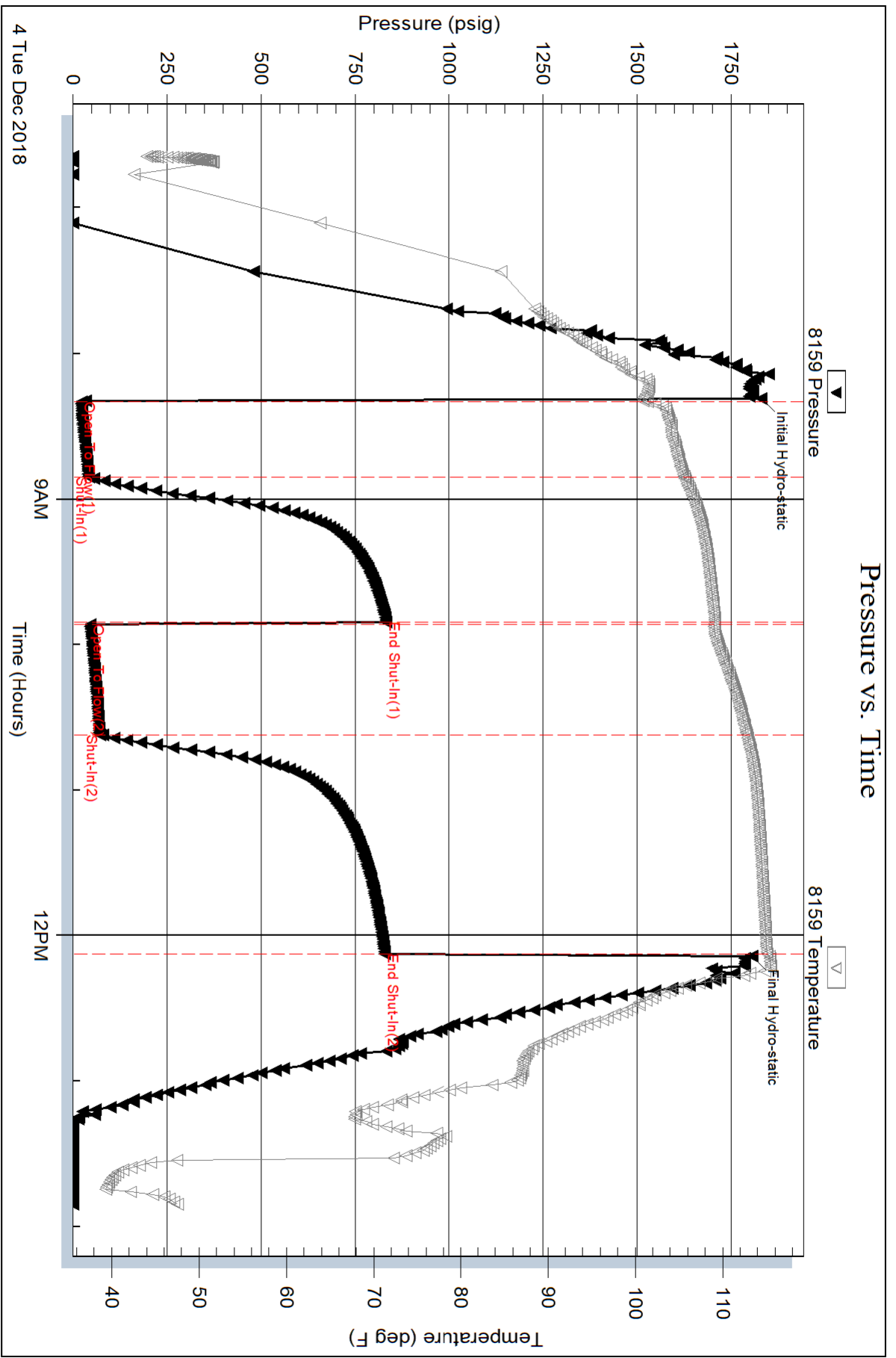
Num Gas Bombs: 0

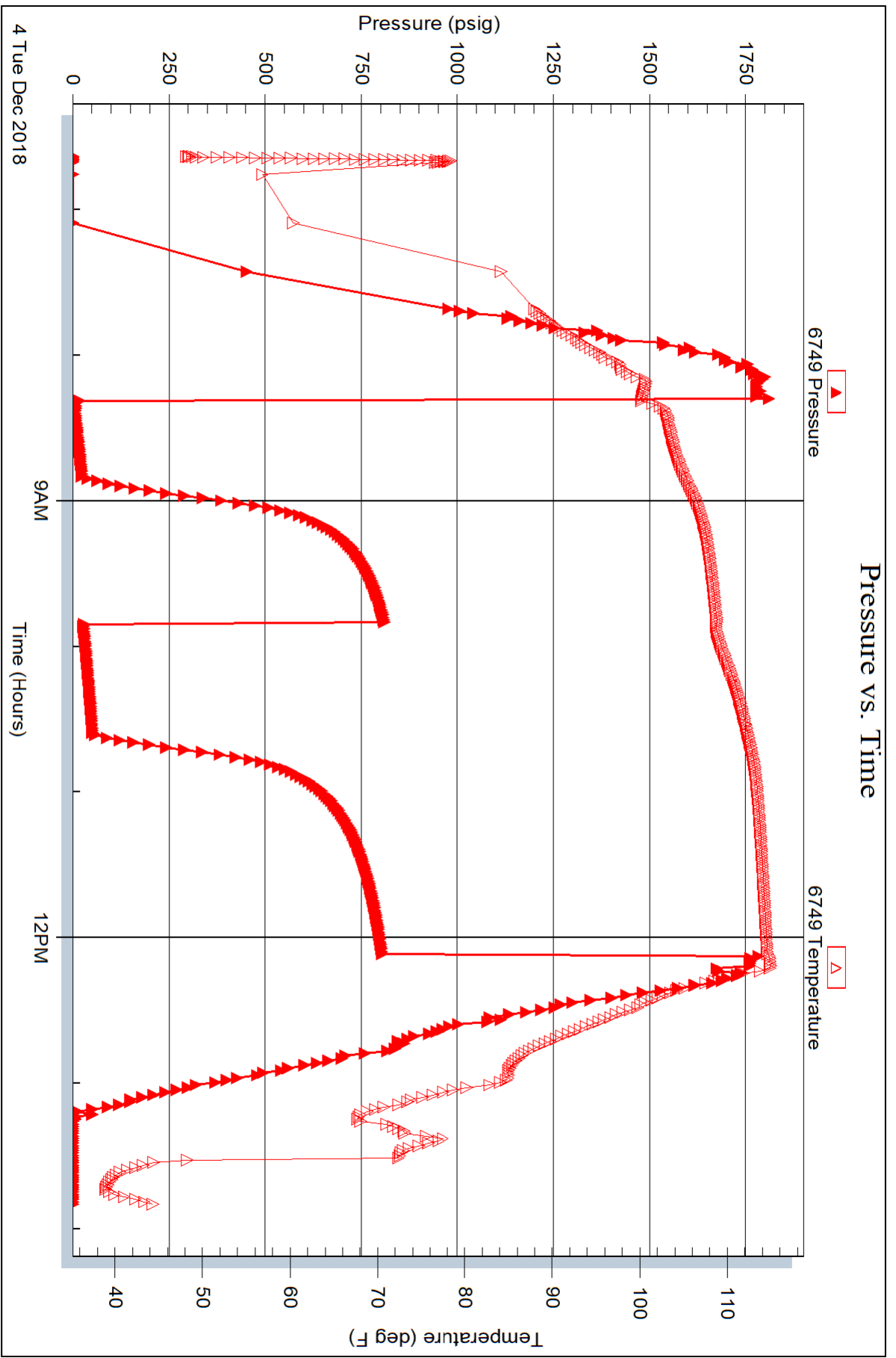
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .17 @ 45 degrees







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

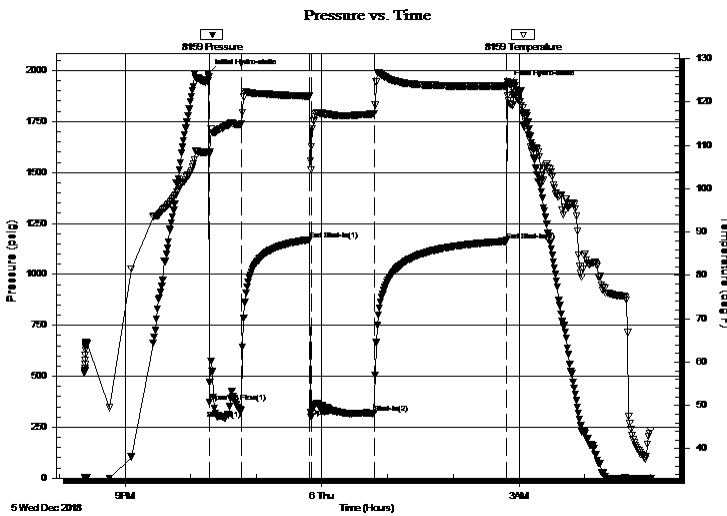
**23-28S-8W Kingman**  
**Jones Trust 5-23**  
 Job Ticket: 64878 **DST#: 3**  
 Test Start: 2018.12.05 @ 20:23:00

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:17:17  
 Time Test Ended: 05:01:02  
 Interval: **3984.00 ft (KB) To 4074.00 ft (KB) (TVD)**  
 Total Depth: 4074.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Leal Cason  
 Unit No: 74  
 Reference Elevations: 1620.00 ft (KB)  
 1612.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8159 Inside**  
 Press@RunDepth: 317.78 psig @ 3985.00 ft (KB) Capacity: psig  
 Start Date: 2018.12.05 End Date: 2018.12.06 Last Calib.: 2018.12.06  
 Start Time: 20:23:01 End Time: 05:01:02 Time On Btm: 2018.12.05 @ 22:16:02  
 Time Off Btm: 2018.12.06 @ 02:49:47

**TEST COMMENT:** IF: Strong Blow , BOB in 30 Seconds, GTS in 4 minutes, Gauged & Caught Sample  
 IS: No Blow Back  
 FF: Strong Blow , BOB & GTS Immediate, Gauged Gas  
 FS: Weak Surface Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1986.32	108.53	Initial Hydro-static
2	371.90	107.85	Open To Flow (1)
31	333.29	114.95	Shut-In(1)
93	1169.23	121.38	End Shut-In(1)
94	298.26	104.35	Open To Flow (2)
152	317.78	117.33	Shut-In(2)
273	1166.10	123.68	End Shut-In(2)
274	1932.67	121.32	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3544 GIP	0.00
378.00	GMCW 10%G 24%M 66%W	5.30
40.00	GCM 30%G 70%M	0.56

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	24.00	1103.95
Last Gas Rate	0.75	40.00	849.72
Max. Gas Rate	0.75	55.00	1084.02



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

# DRILL STEM TEST REPORT

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

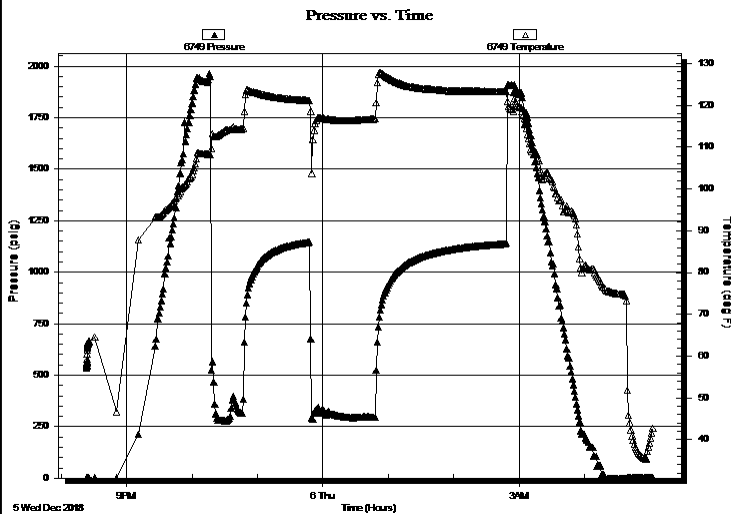
**23-28S-8W Kingman**  
**Jones Trust 5-23**  
Job Ticket: 64878 **DST#: 3**  
Test Start: 2018.12.05 @ 20:23:00

### GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:17:17  
Time Test Ended: 05:01:02  
Interval: **3984.00 ft (KB) To 4074.00 ft (KB) (TVD)**  
Total Depth: 4074.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 1620.00 ft (KB)  
1612.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Leal Cason  
Unit No: 74

**Serial #: 6749 Outside**  
Press@RunDepth: psig @ 3985.00 ft (KB) Capacity: psig  
Start Date: 2018.12.05 End Date: 2018.12.06 Last Calib.: 2018.12.06  
Start Time: 20:23:01 End Time: 05:03:02 Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: Strong Blow , BOB in 30 Seconds, GTS in 4 minutes, Gauged & Caught Sample  
IS: No Blow Back  
FF: Strong Blow , BOB & GTS Immediate, Gauged Gas  
FS: Weak Surface Blow Back



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	3544 GIP	0.00
378.00	GMCW 10%G 24%M 66%W	5.30
40.00	GCM 30%G 70%M	0.56

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	24.00	1103.95
Last Gas Rate	0.75	40.00	849.72
Max. Gas Rate	0.75	55.00	1084.02

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation

**23-28S-8W Kingman**

200 W Douglas Ave #725  
Wichita, KS 67202

**Jones Trust 5-23**

Job Ticket: 64878

**DST#: 3**

ATTN: Tom Dudgeon

Test Start: 2018.12.05 @ 20:23:00

## 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:

73000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	3544 GIP	0.000
378.00	GMCW 10%G 24%M 66%W	5.302
40.00	GCM 30%G 70%M	0.561

Total Length: 418.00 ft      Total Volume: 5.863 bbl

Num Fluid Samples: 0

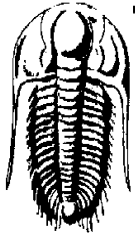
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 50 degrees



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Vincent Oil Corporation

**23-28S-8W Kingman**

200 W Douglas Ave #725  
Wichita, KS 67202

**Jones Trust 5-23**

Job Ticket: 64878

**DST#: 3**

ATTN: Tom Dudgeon

Test Start: 2018.12.05 @ 20:23:00

### Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	1.00	24.00	1103.95
1	20	1.00	22.00	1046.46
1	30	1.00	20.00	988.96
2	10	0.75	55.00	1084.02
2	20	0.75	51.00	1021.54
2	30	0.75	46.00	943.44
2	40	0.75	40.00	849.72
2	50	0.75	41.00	865.34
2	60	0.75	40.00	849.72

Serial #: 8159

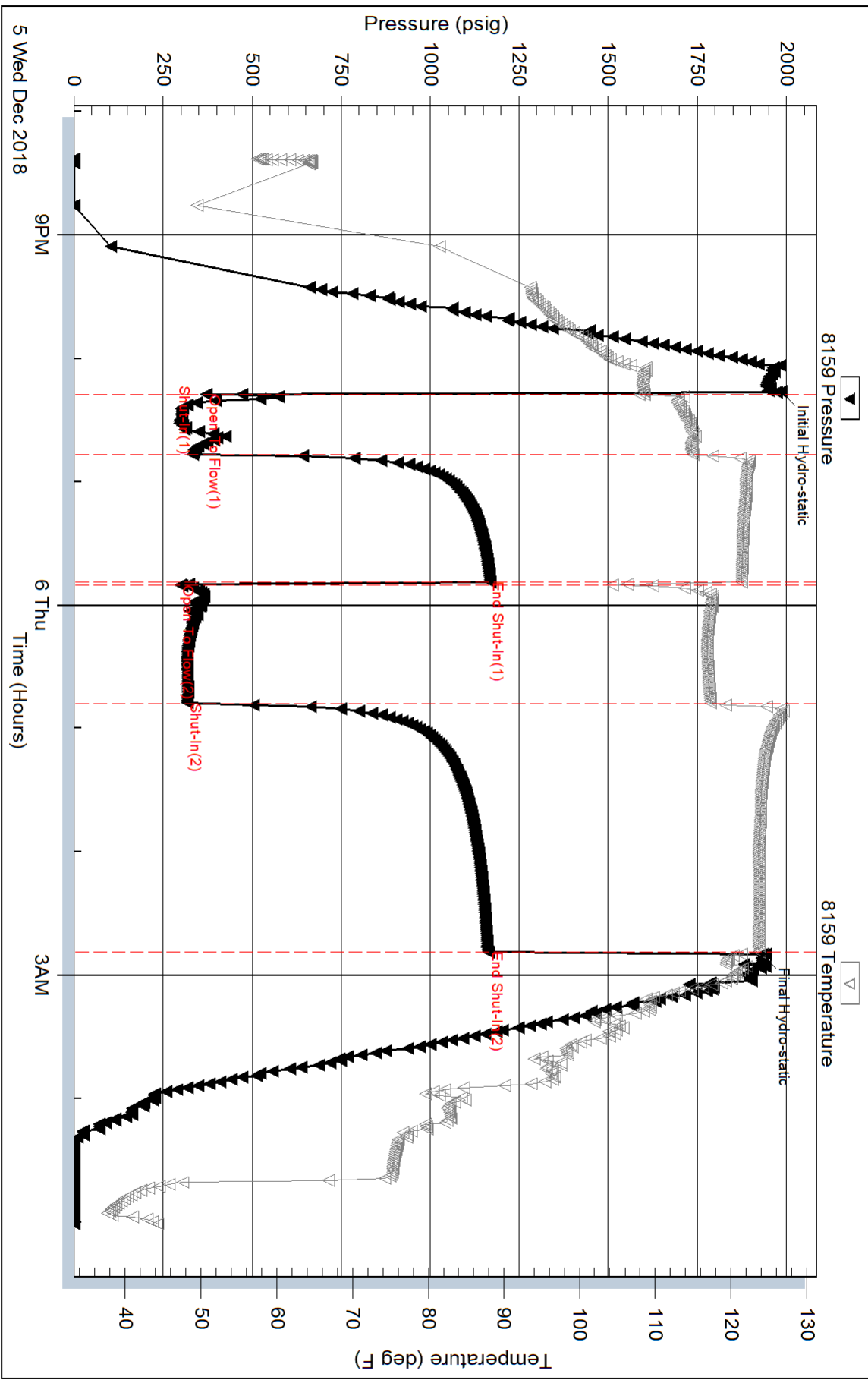
Inside

Vincent Oil Corporation

Jones Trust 5-23

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64878

Printed: 2018.12.06 @ 07:58:54

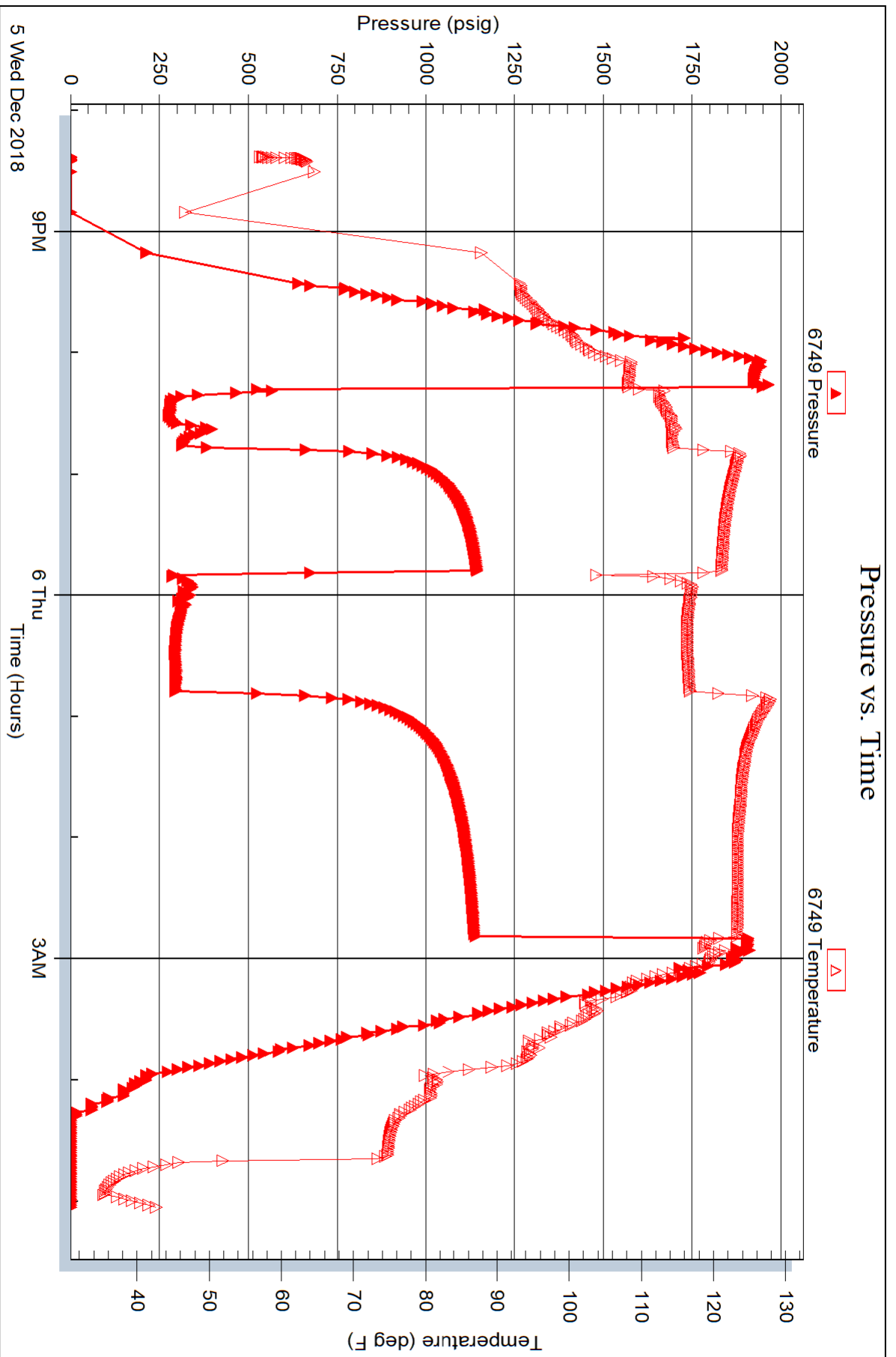


Serial #: 6749

Outside Vincent Oil Corporation

Jones Trust 5-23

DST Test Number: 3





Scale 1:240 Imperial

Well Name: Jones Trust 5-23  
Surface Location: 1032' FNL 2122' FWL 23-28S-8W  
Bottom Location:  
API: 15-095-22328-00-00  
License Number: 5004  
Spud Date: 11/27/2018 Time: 5:30 PM  
Region: South Central KS  
Drilling Completed: 12/6/2018 Time: 11:48 AM  
Surface Coordinates: 1032' FNL & 2122' FWL  
Bottom Hole Coordinates:  
Ground Elevation: 1612.00ft  
K.B. Elevation: 1620.00ft  
Logged Interval: 3050.00ft To: 4175.00ft  
Total Depth: 4175.00ft  
Formation: Hertha  
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: Jones Trust 5-23  
Location: 1032' FNL 2122' FWL 23-28S-8W  
API: 15-095-22328-00-00  
Pool: Development  
State: KS  
Field: Garlich Southwest  
Country: USA

**CONTRACTOR**

Contractor: Duke Drilling Co., Inc.  
Rig #: 8  
Rig Type: Mud Rotary  
Spud Date: 11/27/2018 Time: 5:30 PM  
TD Date: 12/6/2018 Time: 11:48 AM  
Rig Release: 12/7/2018 Time: 11:00 PM

**LOGGED BY**

Company: Vincent Oil Corp  
Address: 200 W Douglas Ave  
Ste 725  
Wichita, KS 67202  
Phone Nbr: 316.262.3573  
Logged By: Geologist  
Name: Tom Dudgeon

**ELEVATIONS**

K.B. Elevation: 1620.00ft  
Ground Elevation: 1612.00ft

R.B. Elevation: 1620.00ft      Ground Elevation: 1612.00ft  
 K.B. to Ground: 8.00ft

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -98.1645672  
 Latitude: 37.6008668  
 N/S Co-ord: 1032' FNL  
 E/W Co-ord: 2122' FWL

**TOTAL DEPTH**

Measurement Type:	Measurement Depth:	TVD:
RTD	4175.00	4175.00
LTD	4155.00	4175.00

**DRILLING FLUID SUMMARY**

Type	Date	From Depth	To Depth
Chemical Mud	12/1/2018	2932.00ft	4175.00ft

**OPEN HOLE LOGS**

Logging Company: ELI Wireline  
 Logging Engineer: Jeff Luebbers  
 Truck #: 922339  
 Logging Date: 12/6/2018      Time Spent: 5  
 # Logs Run: 4      # Logs Run Successful: 4

**LOGS RUN**

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	4155.00ft	2.00		1
NEU/DEN/PE	3100.00ft	4155.00ft	2.00		1
MICRO	3100.00ft	4155.00ft	3.00		2
SONIC	0.00ft	4155.00ft	3.00		2

**LOGGING OPERATION SUMMARY**

Date	From	To	Description Of Operation
12/9/2018	0.00ft	4155.00ft	Logs Run 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	310 ft	23#	7	11/28/2018 1:45 PM
Int Casing					
Prod Casing	4.5 in	4170 ft	10.5#	99	12/7/2018 11:00 PM

**CASING SEQUENCE**

Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	310.00 ft
Production	7.88 in	4.50	4170.00 ft

**NOTES**

Reference Wells  
 A - V.O.C. Jones Trust 4-23 330' FNL & 1929' FWL 23-28S-8W  
 B - Midco Expl Pray #3 SW-NW-NE 23-28S-8W

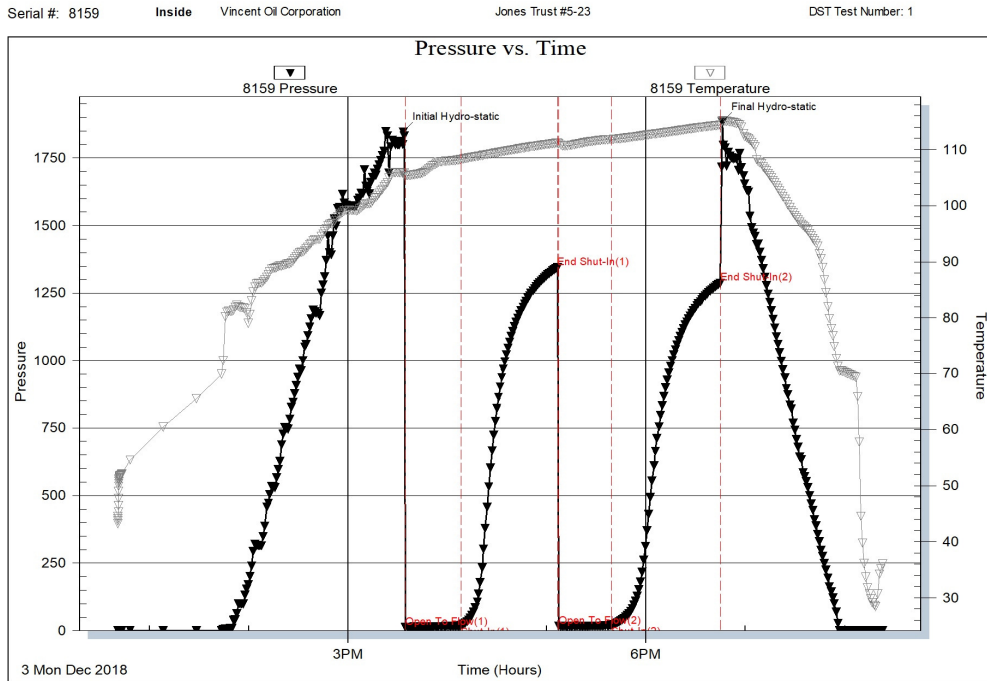
Jones Trust 5-23 Tops			KB	1620
Top	Depth	Datum	Jones Trust 4-23	Pray #3
TOP	2783	-1163	-8	-3
HBR	3177	-1557	-11	-2
RI	3362	-1742	-7	1

LANS	3373	-1753	-8	4
STARK	3714	-2094	-6	3
SWOPE	3719	-2099	-4	7
HUSH	3752	-2132	-4	7
HERTHA	3756	-2136	-4	11
CHER	3959	-2339	-6	4
MISS	4055	-2435	-2	12
MISS LM	4152	-2532	3	-25

Surface Cement - cemented with 275 sx 60 / 40 Poz (2% Gel, 3% CC & 1/4# Flo-seal/sx)  
 Production Cement - Rigged up cementers and plugged rathole with 30 sx and plugged the mousehole with 20 sx.  
 Cemented long string with 200 sx Pro C cement (2% Gel, 10% Salt, and 5#/sx Flo-seal)

During logging operations, approx. 20' of fill was encountered at LTD

### DST #1

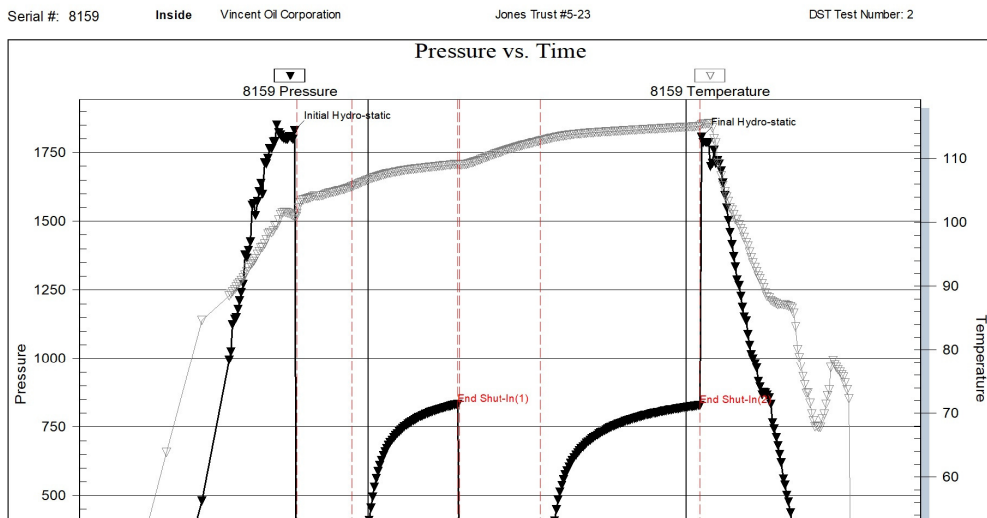


Trilobite Testing, Inc

Ref. No: 64876

Printed: 2018.12.06 @ 16:16:27

### DST #2

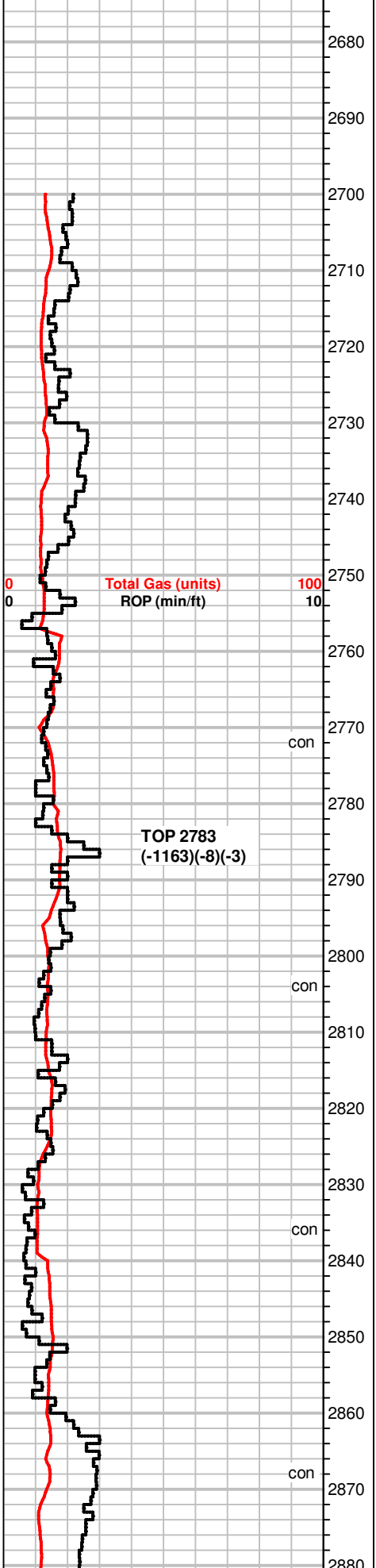




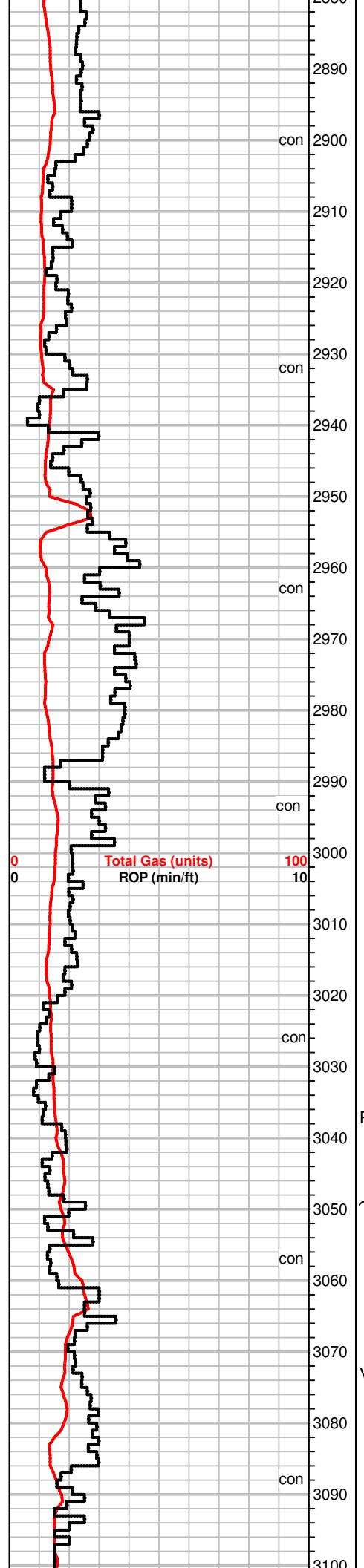
1:240 Imperial

Cored Interval  
DST Interval

0 Total Gas (units) 100  
0 ROP (min/ft) 10



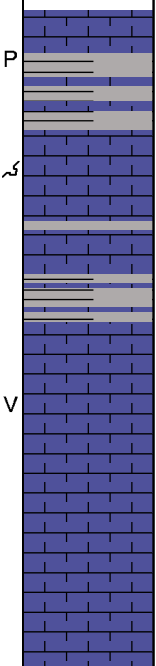
GEO on location @ 2:30 PM 12/1/2018  
Drill time collected from 2700 to RTD  
Samples collected from 3050 to RTD  
KB 1620  
Reference wells  
A - V.O.C. Jones Trust 4-23 330' FNL & 1929' FWL 23-28S-8W  
B - Midco Expl Pray #3 SW-NW-NE 23-28S-8W



DISPLACE MUD @ 2932'

80+  
8.6  
2#

60  
8.6  
2#



WS, crm to lt. gray, f-xln to m-xln, dirm to brittle, fossilif., waxy looking, calcite veins in pore space, some pcs chalky in pt., no fluor, NS, scatt SH, green, gray

MS-WS, A.A., calcite on edge/pores, calcite rhombs, waxy looking, fossilif, some w/ dull flour, NS, scatt SH, grays

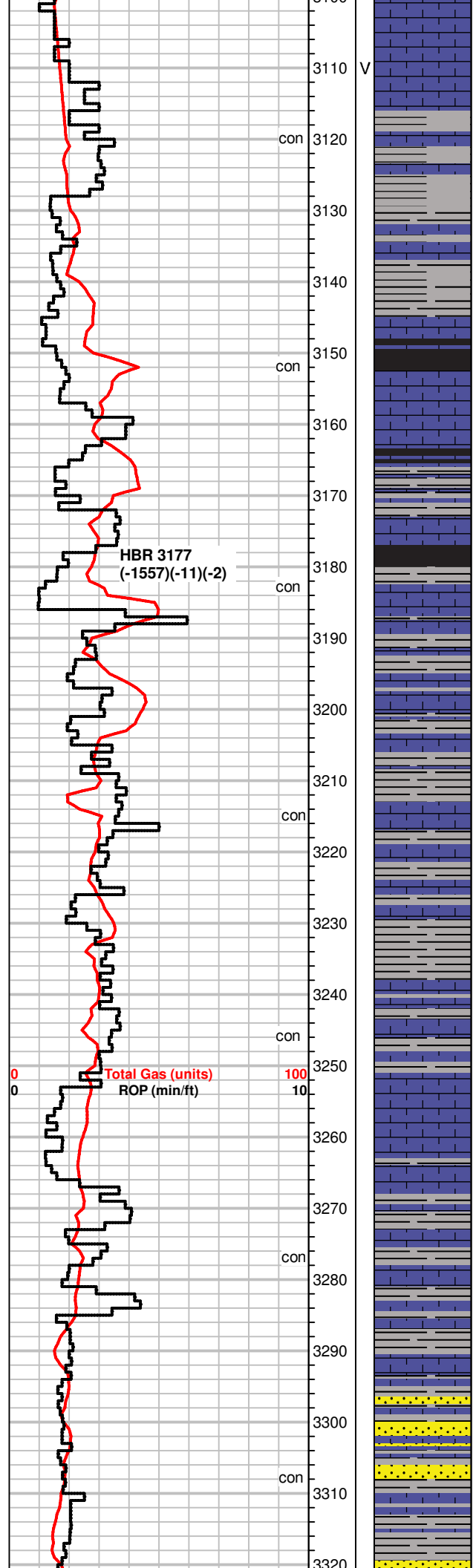
MS-WS, crm to off wht, f-xln to m-xln, waxy, some pcs chalky, calcite A.A., inc. in SH, dk. gray to gray, green

SH, gray, silty in pt., blk, some pcs carbonaceous., MS, some WS, off wht to crm, f-xln to chalky, calcite rhombs, fossils scatt, vuggy to moldic por., NS

MS, crm to brn, f-xln, gritty to m-gr txt, fossilif. txt, hard, shaly to mottled pcs, dec. in SH, grays

Some SH, brn, green, gray MS, crm to greenish brn, f-xln, some pcs mottled, scatt massive/earthy pcs, calcite, NS

MS-WS, off wht to crm, gritty/f-xln txt, hard, dense, some pcs friable



3100 fossils scatt., some brn, earthy pcs, hard, NS

3110 WS-MS, m-xln to f-xln, fossils in dense calc. mtrx, dull fluor, NS some SH, green to grays, silty in pt.

3120 SH, dk. gray to gray, fossil frgmnts in dk. gry pcs  
MS, crm to lt. gray, earthy to chalky txt, some fossils, calcite, shaly striations, NS

3130

3140 SH, gray, green, silty to carb., limey in pt.,  
MS-WS, gray to crm, shaly, fossil, some hard/dense to soft pcs, NS

3150 SH, blk to grays, dk. gray  
MS-WS, crm to tan, f-xln to m-xln, firm to hard, gritty txt in pcs, scatt fossils, NS

3160 SH., blk to dk. gray, brn, limey in pt., some pcs gassy  
MS-WS, gray, crm, fossils, shaly

3170 SH, blk to gray, carb to silty

3180 SH, blk, gray, gassy, some MS, crm to brn, tan, f-xln to earthy, some fossils, NS

3190 SH, blk to gray, silty to gassy pcs, MS, crm to brn, t-xln, dense fossils, some pcs w/ gray specs, hard, NS

3200 SH, blk, to gray, brn, some MS, brn to tan, f-xln, hard, glauc specs, mottled, fossil scatt, NS

3210 MS, gray to crm, brn, f-xln, hard, some fossils, SH, blk, gray, brn

3220 MS, crm to tan, brn/gray, shaly in pt., f to m-xln, hard, silty pcs, fossils, SH, blk, gray

3230 MS, tan to brn, gray, m-xln to co-xln, earthy in pt., sandy to silty pcs scatt, calcite, shaly/mottled pcs, chalky, fossils, NS  
SH, blk, grays, silty

3240 SH, brn to blk, scatt MS, A.A.

3250 MS, brn to crm, tan, gray, shaly, m to m-xln, earthy, firm to hard, fossils, SH, gray, brn

3260 MS, brn to gray, f-xln, shaly in pt/chalky, fossils, NS  
SH, grays, brn

3270 MS, crm to tan, brn, A.A., som pcs sandy in pt. Chert frgmnts, wht  
SH, blk, grays

3280 MS, crm to tan, f-xln, firm to hard, fossils, mottled pcs, calcite, some sandy pcs, NS  
SH, blk, grays, brn, silty in pt.

3290 SH, blk, brn, grays, MS-WS, crm to tan, gray, m-xln to earthy txt, hard, some sandy, fossils, Chert, wht

3300 scatt pcs SH, blk to gray, MS, crm to brn, gray, f-xln to earthy txt, some pcs shaly, hard to brittle, SS clusters, f to m-gr, well sorted, sub ang., NS

3310 MS, gray to brn, A.A., SH, grays, SS clusters, opaque, f-gr, sorted, sub ang., NS

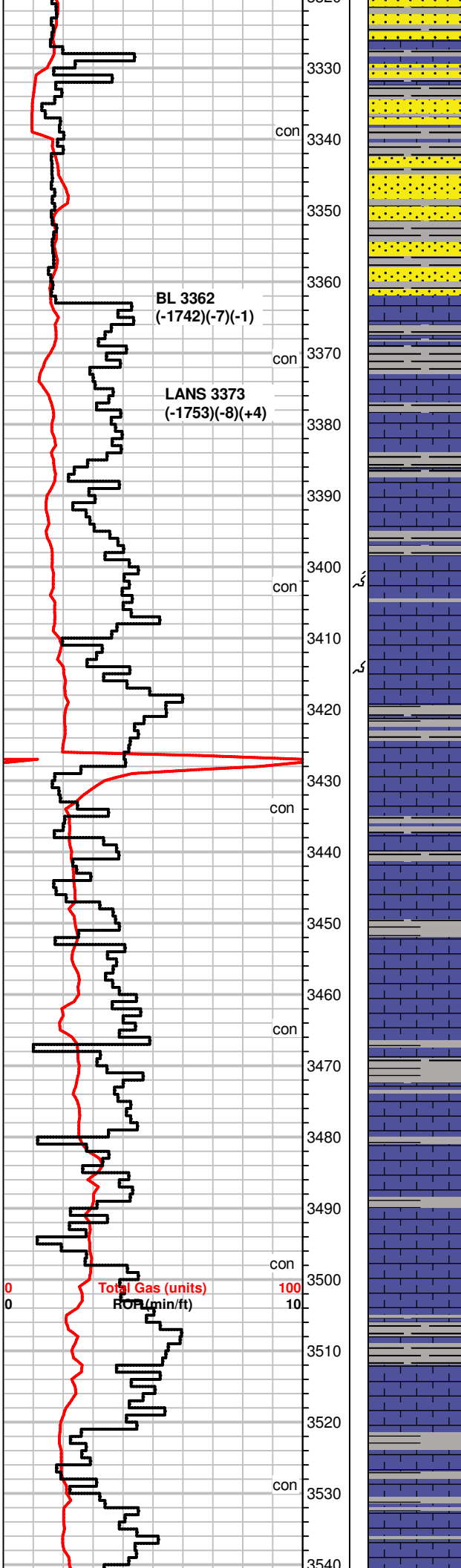
3320 Inc. SH, brn, gray, siltv/striated. MS, tan, earthy, firm, NS

Run Premix

47  
8.8  
1#

Str. Wt. 107k  
WOB 35k  
RPM 75  
Pump 60/775#





SS clusters, opaque, m-gr, firm to firable, sub ang, sorted, NS

SS clusters, opaque, dark specs, glauc, f to m-gr, well sorted, shaly to silty pcs, SH, grays, silty to sandy in pt.

SS clusters A.A., SH, gray to dk. gray, silty to sandy

SH, blk, grays, pyrite, SS clusters, off wht to \opaque, chalky mtrx, f to m-gr, well sorted, rounded to sub ang, mineral specs, SH, gray, shaly to silty pcs, MS, crm to tan, brn, rare dense pcs, mostly chalky, firm, fossils scatt, NS

MS, brn to tan, f-xln to massive, dense, scatt fossils, SH, grays, fresh, carrying SS clusters, A.A.

MS, brn to crm, A.A., fossilif to brittle pcs, some chalky, carrying SS, SH, grays

MS, crm to tan, brn, f-xln, dense to brittle, fossils, sub oolitic pcs, friable, chalky mtrx, NS

WS-PS, crm to tan, f-xln, chalky to calc. mtrx, friable, fossils, sandy in pt., SH, gray, lt. green

MS-WS, gray to crm, f-xln to earthy txt, some waxy looking, dense to firm, fossils, NS, SH, grays to green

MS, crm to lt. gray, f-xln, dense, fossilif., A.A., some earthy, barren, NS some SH, grays, sandy pcs

WS-MS, crm to tan, f-xln, gritty to earthy txt, fossils, some pcs co-gr oolitic/crinoid frgmts, soft to firm calc mtrx, NS, scatt SH, grayish brn

MS-WS, crm to tan, off wht, f-xln, fossils, chalky pcs sctt, most dense, SH, grays, brn, hard, blocky pcs

MS-WS, crm to gray, f-xln, waxy looking, some gritty pcs, fossils scatt, dull fluor, NS SH, blk, gray, Chert, wht, fossils

SH, grays, MS, tan to crm, f-xln, chalky to dense/massive pcs, fossils scatt, shaly, Chert, wht, brn

MS-WS, crm to gray, off white, massive to m-xln, sub oolitic to fossilif., chalky, some dense pcs, NS

MS-WS, crm to gray, shaly to f-xln fossils, dense to friable pcs, some sub oolitic, calcite, SH, blk, dk. grays

SH, gray, brn, blk, MS, crm to tan, scatt brn pcs, f-xln to chalky pcs, silty in pt., fossilif., dull fluor, NS

MS, crm, tan, gray, f-xln to massive txt, hard/dense, to li. chalky pcs, rare mottled pcs, fossils, SH, green, gray, silty pcs scatt.

SH, dk. gray to brn, blocky, SS clusters, opaque, f to m-gr, well strtd, sub ang, MS, brn to crm, gray, f-xln, earthy, dense to firm, silty, rare fossils, NS

MS, brn to tan, mic-xln to massive, some chalky pcs, most gritty, dense, hard, some fossils, dull fluor, NS, SH, brn, dk. gray

MS-WS, brn to crm, gray, f-xln to mic-xln, dense, hard, suboolitic to fossilifi., gritty txt, NS

MS-WS, crm to brn, f-xln to earthy, some gritty to massive pcs, scatt

47  
8.9  
1#

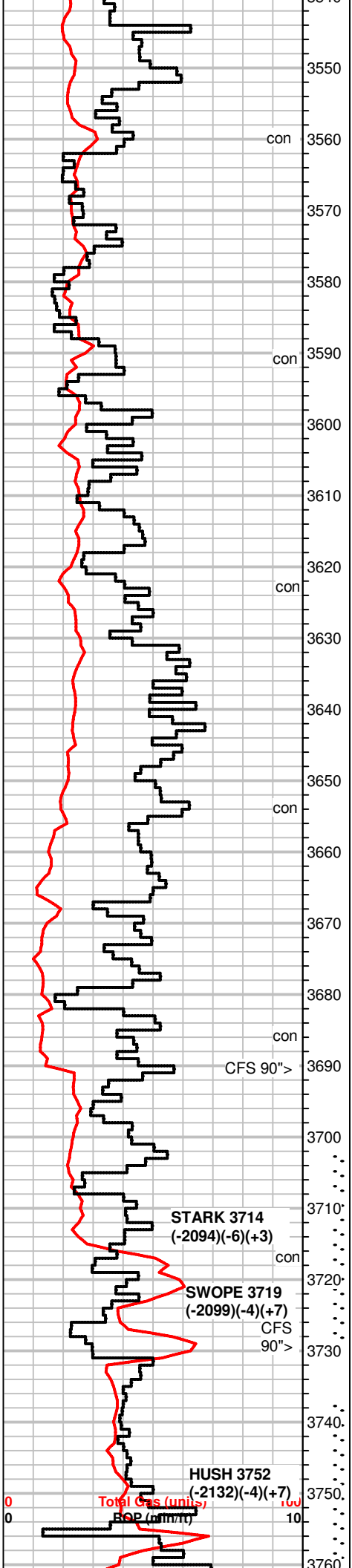
58  
9.0  
1#

49  
9.1  
1#

Rig Service

Add Premix  
Str. Wt. 112k  
WOB 35k  
RPM 80  
Pump 58/800#

50  
9.1  
1#



MS-W, crm to brn, f-xln to earthy, some gritty to massive pcs, scatt fossils, silty, mottled, dense, NS

SH, blk, gray, green, silty MS, crm to tan, f-xln to chalky, fossils, dense, gritty txt in pt., Chert, gray, wht, fossils

SH, dk. gray to blk, MS, gray to crm, tan, f-xln, earthy, dense/massive pcs, gritty to fossilif., some shaly pcs, Chert, wht, gray, fossils

MS, crm to gray, A.A., Chert, tan, fossils  
SH, blk, dk. grays

MS-W, crm to brn, gray, m-xln to earthy pcs, gritty, scatt fossils, dense, NS, SH, grays, some blocky

MS-W, crm to tan, lt. gray, m-xln to f-xln, gritty, some fossils, sub-oolitic, dense/hard, Chert, tan, gray, fossils  
SH, gk. gray to gray

MS-W, crm to tan, brn, A.A., f-xln, dense, fossils, calcite, massive pcs scatt

SH, grays, blk, MS, crm, f to m-xln, chalky to fossilif. pcs, dense, Chert, tan, wht

MS, crm to brn, f-xln to earthy, dense, fossils sparse, shaly in pt., Chert, wht, SH, grays, brn

MS, crm, vf-xln to mic-xln, firm to friable pcs, some dense, scatt fossils, Chert, wht, fossilif., SH, grays

MS, crm to brn, dense to firm, some fossils, f-xln, NS

SH, grays, brn-ish gray, silty,  
MS, crm to brn, f-xln to earthy, scatt fossils, NS, Chert, wht

MS, crm to brn, earthy to chalky, rare massive pcs, hard to firm, scatt fossils, SH, dk. gray

SH, grays, silty, MS, brn to lt. gray, f-xln, dense, hard, scatt fossils, NS, Chert, wht

some SH, grays, green, sandy, MS, lt. gray to crm, f-xln, some chalky, firm to hard, fossils, some mottled pcs, Chert, wht

SH, dk. gray to gray, MS, crm to brn, mottled pcs, hard to dense, chalky in pt., some sub oolitic pcs, NS, moldic por.

MS-W, crm to brn, gray, f-xln, firm to brittle, some chalky pcs, fossils, f-gr oolitic in pt., NS, SH, blk to grays, silty

MS, crm to lt. gray, f-xln, firm, rare fossilif./sub oolitic pcs, chalky in pt., tite calcite cement in pore space, rare spty bright flour, 1 pc w/ milky cut

SH, blk to gray, gassy, carb.

MS-W, crm to gray, brn, f-xln to massive pcs, fossils, firm to dense, shaly in pt., **rare bright spotty flour**, no cut, no odor, chert, gray, fossils. rare pp por.

MS, crm to brn, vf-xln to massive, dense, some pcs w/ fossils, scatt sub oolitic, NS

MS, crm to off wht, tan, f-xln, chalky, some pcs massive/dense, hard to firm, NS, SH, blk, grays, pyrite

MS, lt. gray to crm, brn, f-xln to massive, some pcs chalky, gritty pcs scatt, some earthy, firable to firm, rare fossils, SH, blk to gray

MS, crm to tan, m-xln to earthy, some gritty to massive pcs, scatt fossils, silty, mottled, dense, NS

51  
9.1  
1#

50  
9.4  
1#

49  
9.3  
1#

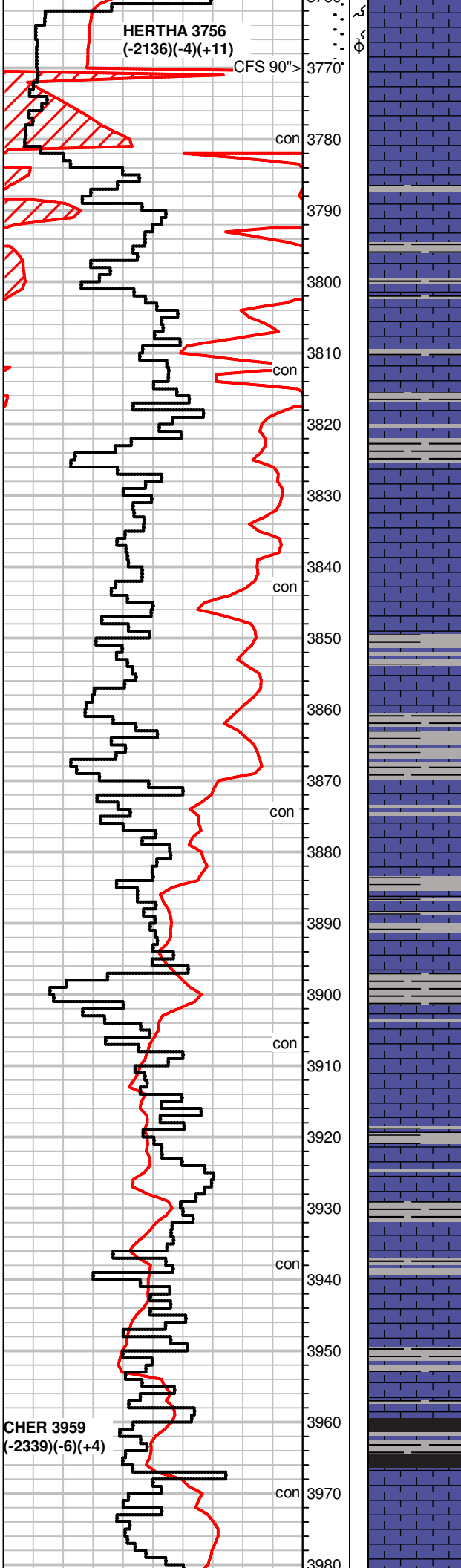
**Short Trip 20 Stands**

STR. Wt. 114k  
WOB 35k  
80 RPM  
Pump 48/800#

**DST #1 3702-3730**  
**SWOPE 30-60-30-60**  
**WB, blt to .75 inch**  
**NBB**  
**WB, surface**  
**NBB**  
**Rec: 10' SGCM**  
**(2g,98m)**  
**IH 1847#**  
**IF 13-19#**  
**ISIP 1345#**  
**FF 18-21#**  
**FSIP 1288#**  
**FH 1883#**  
**Temp 115°F**  
**Pipe Strap .79 Long to Board**

HERTHA 3756  
(-2136)(-4)(+11)

CFS 90" > 3770'



WS-PS, brn to tan, m-xln, m-gr oolitic, fair odor, mineral to **bright fluor, fair to good odor, slow milky to inst cut from select pcs, free oil droplets in tray, moldic to inter oolitic por., partial to even saturation dry**

WS-PS, crm, brn, tan, f to m-xln, m-gr oolitic pcs, moldic, tite calc mtrx, A.A., some pcs chalky in pt, spotty bright fluor, faint odor

MS, gray to crm, f-xln to massive, dense, hard, silty to shaly looking, rare fossils, dull fluor, NS

MS-WS, gray to brnsh gray, f to m-xln, m-gr sub-oolitic to oolitic pcs, dark ooids in tite calce mtrx, firm to brittle, scatt hard pcs, shaly to chalky in pt., dull fluor, NS, SH, blk to gray

MS, gray to crm, f-xln to massive, hard, oolitic to moldic, m-gr pcs, SH, blk to grays

SH, blk, gray, green, silty in pt. rare pyrite specs, MS, gray to scatt crm pcs, f-xln to earthy, hard, NS

SH, grays, silty, MS, crm to gray, f-xln to sli. chalky crm pcs, hard to firm, m-gr oolitic pcs scatt, dull fluor, NS

MS, brn to gray, tan, f-xln to massive, dense/hard, fossils, rare chalky pcs, mineral specs scatt, carrying a lot of SH, blk to grays

MS, tan to gray, A.A., some fossilif., dense, dull fluor, NS  
influx of SH, blk to grays

SH, blk, gray, fossil, rare silty pcs  
MS, crm to brn, mic-xln to massive, chalky/earthypcs scatt, fossils, f-gr oolitic pcs in dense calc mtrx, NS

MS, crm to tan, f-xln, scatt fossils, chalky in pt., some pcs WS, crm, f-xln, fossilif., friable, some SH, gray, green

influx MS, crm to lt. tan, earthy/chalky to massive pcs, dense, some fossils, rare f-gr oolitic pcs, friable, dull flour, NS

MS, crm to tan, f-xln to massive, hard/dense, some fossil frgmts, NS

SH, blk, grays, MS, crm to gray, mic-xln to massive, hard, rare fossils, some pcs sandy looking, NS

MS, crm to brn, f-xln to massive pcs, dense, sub oolitic pcs, some fossilif., chalky in pt., friable, NS

MS-WS, brn to tan, some crm pcs, f-xln to mic-xln, firm to dense, fossilif. pcs, gritty in pt., some chalky pcs, NS< SH, blk to gray, silty

SH, blk to gray, green, MS-WS, crm to tan, f-xln, chalky in pt., fossils scatt, some brn, f-xln, dense, dull fluor, NS

some SH, A.A., MS, crm to gray, f-xln, dense, some fossils, dec. in chalky pcs, NS

MS, crm to tan, f to mic-xln, massive to earthy pcs, some gritty/silty, hard to brittle, NS SH, grays

SH, blk to gray, some pyrite flakes, silty in pt.,  
MS, brn to crm, f-xln to massive pcs, hard, dense, scatt gritty pcs, fossils sparce

SH, gray to blk, brn, MS, crm to gray, massive, mic-xln, scatt chalky pcs, most dense, NS

DST #2 3737-3770  
HERTHA 30-60-45-90  
SB BOB 4 min, blt to 61.5 inches  
NBB  
SB BOB 45 sec, blt to 63 inches  
WBB, surface blow 520' GIP  
Rec: 110 GOWCM (10g,10o,44m,36w)  
IH 1830#  
IF 23-43#  
ISIP 832#  
FF 47-72#  
FSIP 828#  
FH 1806#  
Temp 115°F  
API RW .17 @ 45°F  
CI 72,000ppm

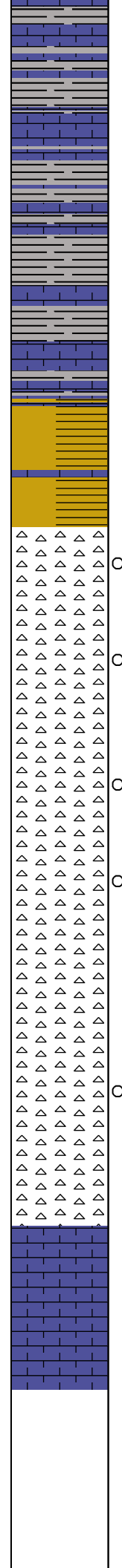
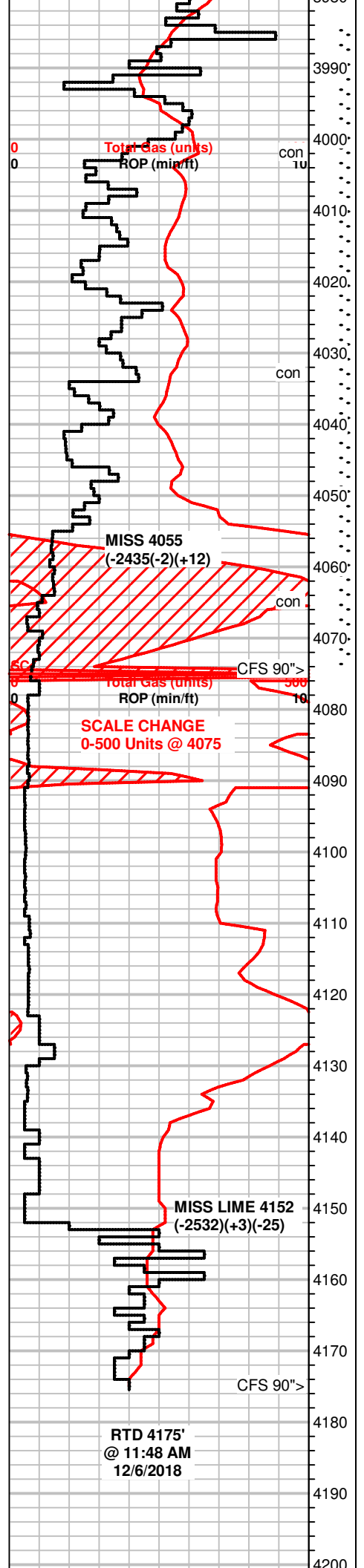
50  
9.1  
2#

49  
9.1  
1.5#

Str. Wt. 108k  
WOB 35k  
70 RPM  
Pump 58/750#

52  
9.1  
1#

53  
9.1  
1#



MS, gray to crm, f-xln to massive, dense, scatt chaly pcs, gritty in pt., NS, SH, grays

MS, crm to brn, gray, f-xln, dense, chalky pcs rare, dull fluor, NS SH, brn, grays

MS-WS, crm to brn, f-xln, some pcs chalky to earthy, m-gr oolitic/moldic pcs, dense to firm, dull fluor, NS

SH, grays, MS, crm to tan, gray, f-xln to chalky/shaly, rare f-gr oolitic pcs, soft/friable

MS-WS, gray to crm, f-xln grittyx, firm to friable, dull fluor, NS

SH, varicolored, gray, sea green, maroon, yellow, MS, crm to brn, f-xln, dense, dull fluor, NS

SH, varicolored A.A., mostly gray to green, MS, crm to brn, some greenish gray, f-xln, dense, cherty, NS

Chert, bone wht to lt. tan, fresh, some w/ sandy inclusions, hard, no vis por., flash odor in bag

Chert, bone wht to lt. tan, fresh, blocky, some sandy pcs, flash odor,

Chert, wht, bone wht, fresh to withrd on edge, some w/ tan stn, no vis por.

Chert, wht to bone wht, tan to green, some pcs withrd, tan stn, blocky pcs, no odor,

Chert, wht, withrd, some tan pcs, fresh, scatt fossilif. pcs, vuggy por., tan stn, bleeding gas

Chert, wht, mostly withrd, some fresh, tan stn, vuggy por.,

Chert, wht, A.A., some greenish wht, friable, withrd, lesser vuggy por., tan stn, no odor

WS-MS, off wht to crm, f-xln, fossilif., sub oolitic, dense to firm, NS

WS-MS, off wht to crm, opaque dense calc mtrx, firm to friable, fossilif. to sub oolitic, dull fluor, NS

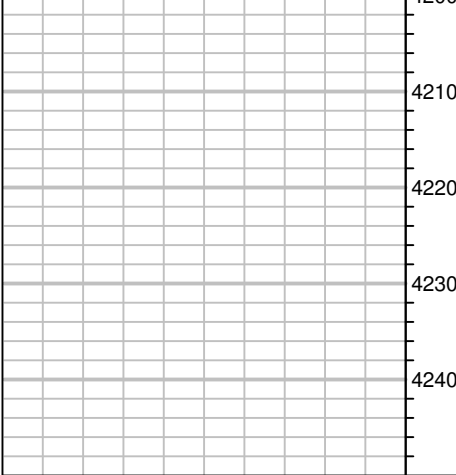
52  
9.1  
1#

51  
9.1  
2#

**+161 UGK, w/ recycle of 75 units**  
52  
9.1  
1#

**DST #3 3984-4074**  
**MISS 30-60-120**  
**SB BOB 30 sec, GTS 4min, GA 1inch choke**  
**1.10 MMCFG @ 10min**  
**1.04 MMCFG @ 20min**  
**988 MCFG @ 30min**  
**NBB**  
**SB BOB,GTS immed, GA .75 inch choke**  
**1.08 MMCFG @ 10min**  
**1.02 MMCFG @ 20min**  
**943 MCFG @ 30min**  
**849 MCFG @ 40min**  
**865 MCFG @50min**  
**849 MCFG @60min**  
**Weak Surf BB**  
**3544' GIP**  
**Rec: 40' GCM (30g,70m)**  
**378' GMCW (10g,24m,66w)**  
**IH 1986#**  
**IF 372-333#**  
**ISIP 1169#**  
**FF 298-317#**  
**FSIP 1166#**  
**FH 1932#**  
**Temp 123°F**  
**API Rw .15 @ 50°F**  
**CI 72,000ppm**

52  
9.1  
1#



4210

4220

4230

4240