

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	KEOUGH 6-34
Doc ID	1370907

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 6-34
Doc ID	1370907

Tops

Name	Top	Datum
Heebner Shale	4352	-1808
Brown Limestone	4489	-1945
Lansing	4500	-1956
Stark Shale	4835	-2291
Pawnee	5042	-2498
Cherokee Shale	5090	-2546
Base Penn Limestone	5190	-2646
Mississippian	5207	-2663
RTD	5370	-2824

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6677

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	6-27-17	Sec.	34	Twp.	28	Range	23	County	Ford	State	Ks	On Location	10:00 am	Finish	2:00 pm
Lease	Krough		Well No.		6-34		Location								
Contractor												Owner			
Type Job												To Quality Well Service, Inc.			
Hole Size												You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg.												Charge To			
Tbg. Size												To			
Tool												Street			
Cement Left in Csg.												City			
Meas Line												State			
EQUIPMENT												The above was done to satisfaction and supervision of owner agent or contractor.			
Pumptrk												Cement Amount Ordered			
Bulktrk												125. MDC 3% CC 2% gel			
Bulktrk												1/4# C.F. 150sx Common 3% CC 2% Gel 1/4 C.F.			
Pickup												Gemmon 150			
JOB SERVICES & REMARKS												Roz Mix MDC 125			
Rat Hole												Gel. 11			
Mouse Hole												Calcium 10			
Centralizers												Hulls			
Baskets												Salt			
D/V or Port Collar												Flowseal 46-25			
Ran 15jts 8 5/8 csg broke circulation with Rig Pumped 125sx MDC 3% CC 2% gel 1/4 CC 150 sx Common 3% CC 2% Gel, 1/4 C.F. released plug. pumped 38.6 bbls H2O Landed plug @ 500 psi												Kol-Seal			
cement did circulate												Mud CLR 48			
												CFL-117 or CD110 CAF 88			
												Sand			
												Handling 296			
												Mileage 50			
												FLOAT EQUIPMENT			
												Guide Shoe 8 7/8 Disc Plug			
												Centralizer			
												Baskets 3 7/8 Wooden Plug			
												AFU Inserts			
												Float Shoe			
												Latch Down			
												LMV 50			
												Service Supervisor			
												Pumptrk Charge			
												Mileage 100			
												Tax			
												Discount			
												Total Charge			
Signature															

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6681

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	7-8-17	Sec.	34	Twp.	28	Range	23W	County	Ford	State	KS	On Location	1:45	Finish	5:00
Lease	Keough		Well No.	6-34		Location									
Contractor	Duke							Owner							
Type Job	Long string							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	7 7/8		T.D.	5370											
Csg.	4.5 10.5		Depth	5368											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	20		Shoe Joint	20											
Meas Line			Displace	82.9											
EQUIPMENT				5# K19 seal											
Pumptrk	8	No.	Derek		Common 225sx Pro-C										
Bulktrk	9	No.	Mike		Poz. Mix										
Bulktrk		No.			Gel. 4										
Pickup		No.			Calcium										
JOB SERVICES & REMARKS				Hulls											
Rat Hole	30.5x		Salt 24												
Mouse Hole	20.5x		Flowseal												
Centralizers			Kol-Seal 1125#												
Baskets			Mud CLR 48 500gal mud flush												
D/V or Port Collar			CFL-117 or CDT10-CAF 38 (CL-1 Equib)												
Pan 4.5csg to bottom broke circulation with Rig Pumped Pre Flush Plug Rat & Mouse hole with 50sx cement Mixed 175sx Pro C cement washed up truck released plug Displaced with 2% KCL water with 82.9 bbls H ₂ O Plug loaded @ 1207 psi Float held.				Sand											
				Handling 252											
				Mileage 50											
				FLOAT EQUIPMENT											
				Guide Shoe 1 4.5											
				Centralizer 6 4.5											
				Baskets											
				AFU Inserts 1 4.5											
				Float Shoe											
				Latch-Down Rubber Plug 4.5											
				LMV 50											
				Service Supervisor											
				Pumptrk Charge Long string											
				Mileage 50x2											
												Tax			
												Discount			
												Total Charge			
Signature <i>[Signature]</i>															



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

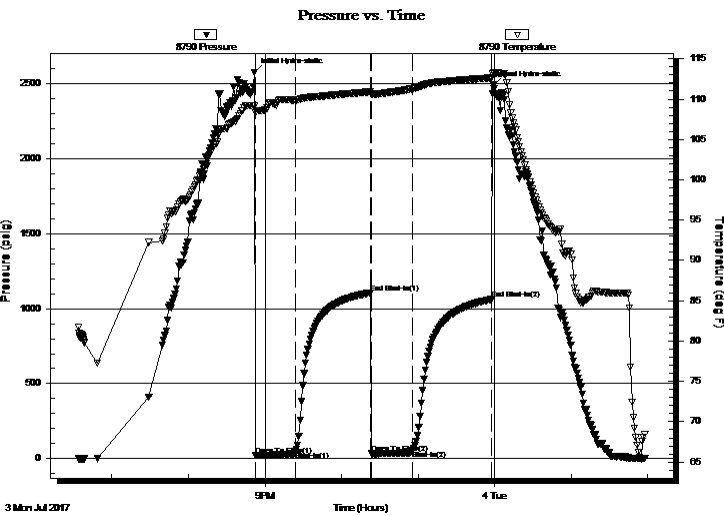
34-28S-23W Ford
Keough 6-34
Job Ticket: 63602 **DST#: 1**
Test Start: 2017.07.03 @ 18:33:53

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:52:38
Time Test Ended: 01:57:38
Interval: **5036.00 ft (KB) To 5064.00 ft (KB) (TVD)**
Total Depth: 5064.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 68
Reference Elevations: 2544.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: 56.87 psig @ 5037.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.07.03 End Date: 2017.07.04 Last Calib.: 2017.07.04
Start Time: 18:33:58 End Time: 01:57:37 Time On Btm: 2017.07.03 @ 20:51:38
Time Off Btm: 2017.07.03 @ 23:59:23

TEST COMMENT: IF: Weak Surface Blow
IS: No Blow Back
FF: No Blow
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2576.01	109.16	Initial Hydro-static
1	20.07	108.25	Open To Flow (1)
33	45.78	109.89	Shut-In(1)
92	1105.76	110.92	End Shut-In(1)
92	31.61	110.55	Open To Flow (2)
124	56.87	111.29	Shut-In(2)
186	1062.13	112.62	End Shut-In(2)
188	2490.56	113.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

34-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Keough 6-34

Job Ticket: 63602

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2017.07.03 @ 18:33:53

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8790

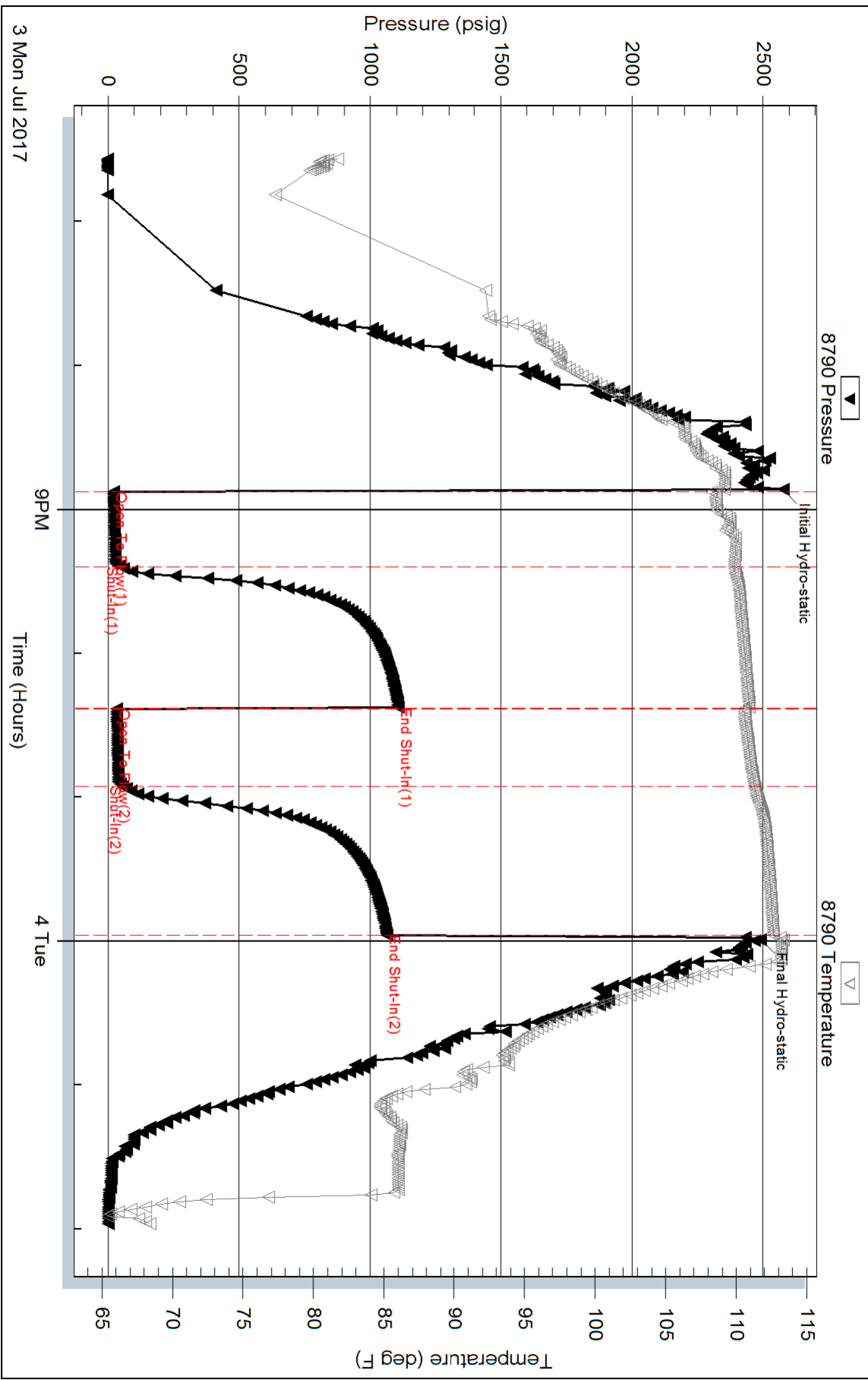
Inside

Vincent Olio Corporation

Keough 6-34

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63602

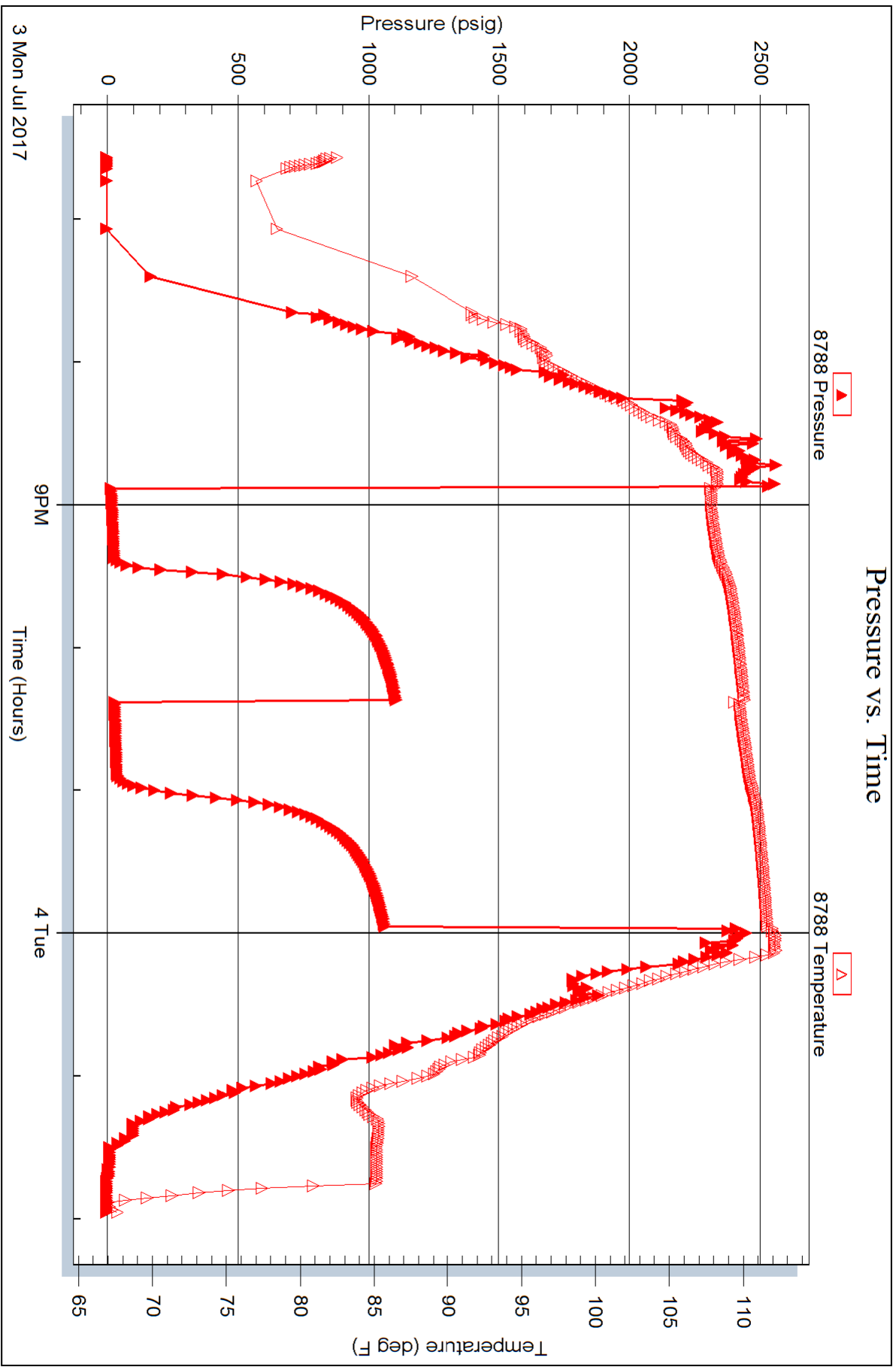
Printed: 2017.07.04 @ 08:07:12

Serial #: 8788

Outside Vincent Olio Corporation

Keough 6-34

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

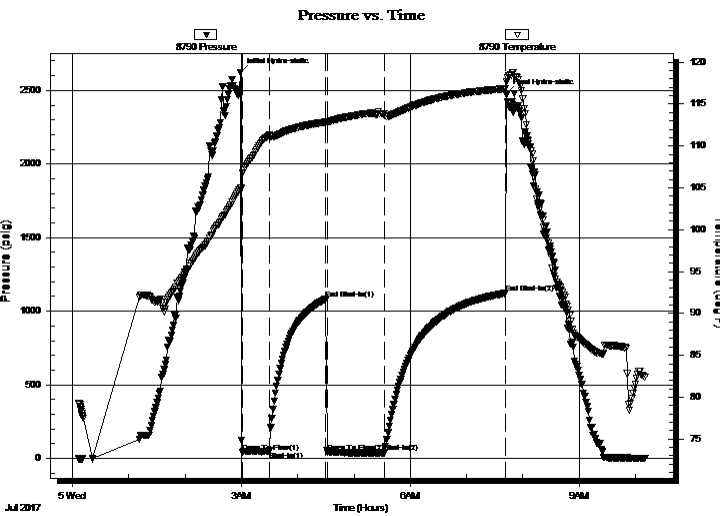
34-28S-23W Ford
Keough 6-34
Job Ticket: 63603 **DST#: 2**
Test Start: 2017.07.05 @ 00:06:15

GENERAL INFORMATION:

Formation: **Cherokee/Morrow**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 03:01:15 Tester: Leal Cason
Time Test Ended: 10:10:45 Unit No: 68
Interval: 5166.00 ft (KB) To 5112.00 ft (KB) (TVD) Reference Elevations: 2544.00 ft (KB)
Total Depth: 5212.00 ft (KB) (TVD) 2531.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8790 Inside
Press@RunDepth: 38.12 psig @ 5167.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.07.05 End Date: 2017.07.05 Last Calib.: 2017.07.05
Start Time: 00:06:20 End Time: 10:10:45 Time On Btm: 2017.07.05 @ 02:58:45
Time Off Btm: 2017.07.05 @ 07:42:15

TEST COMMENT: IF: Strong Blow , BOB in 1 minute
IS: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 1 minute, Gauged & Caught Sample
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2622.36	104.92	Initial Hydro-static
3	40.21	106.75	Open To Flow (1)
31	47.08	111.31	Shut-In(1)
92	1083.38	112.86	End Shut-In(1)
93	41.66	112.80	Open To Flow (2)
154	38.12	113.85	Shut-In(2)
283	1122.00	116.83	End Shut-In(2)
284	2477.20	117.61	Final Hydro-static

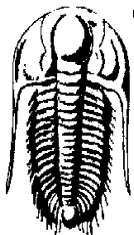
Recovery

Length (ft)	Description	Volume (bbl)
0.00	5097 GIP	0.00
60.00	GCM 5%G 95%M	0.30

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	3.00	27.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

34-28S-23W Ford
Keough 6-34
Job Ticket: 63603 **DST#: 2**
Test Start: 2017.07.05 @ 00:06:15

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6200.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5097 GIP	0.000
60.00	GCM 5%G 95%M	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

34-28S-23W Ford
Keough 6-34
Job Ticket: 63603 **DST#: 2**
Test Start: 2017.07.05 @ 00:06:15

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	3.00	27.60
2	20	0.25	3.00	27.60
2	30	0.25	2.50	26.81
2	40	0.25	2.50	26.81
2	50	0.25	2.00	26.02
2	60	0.25	2.00	26.02

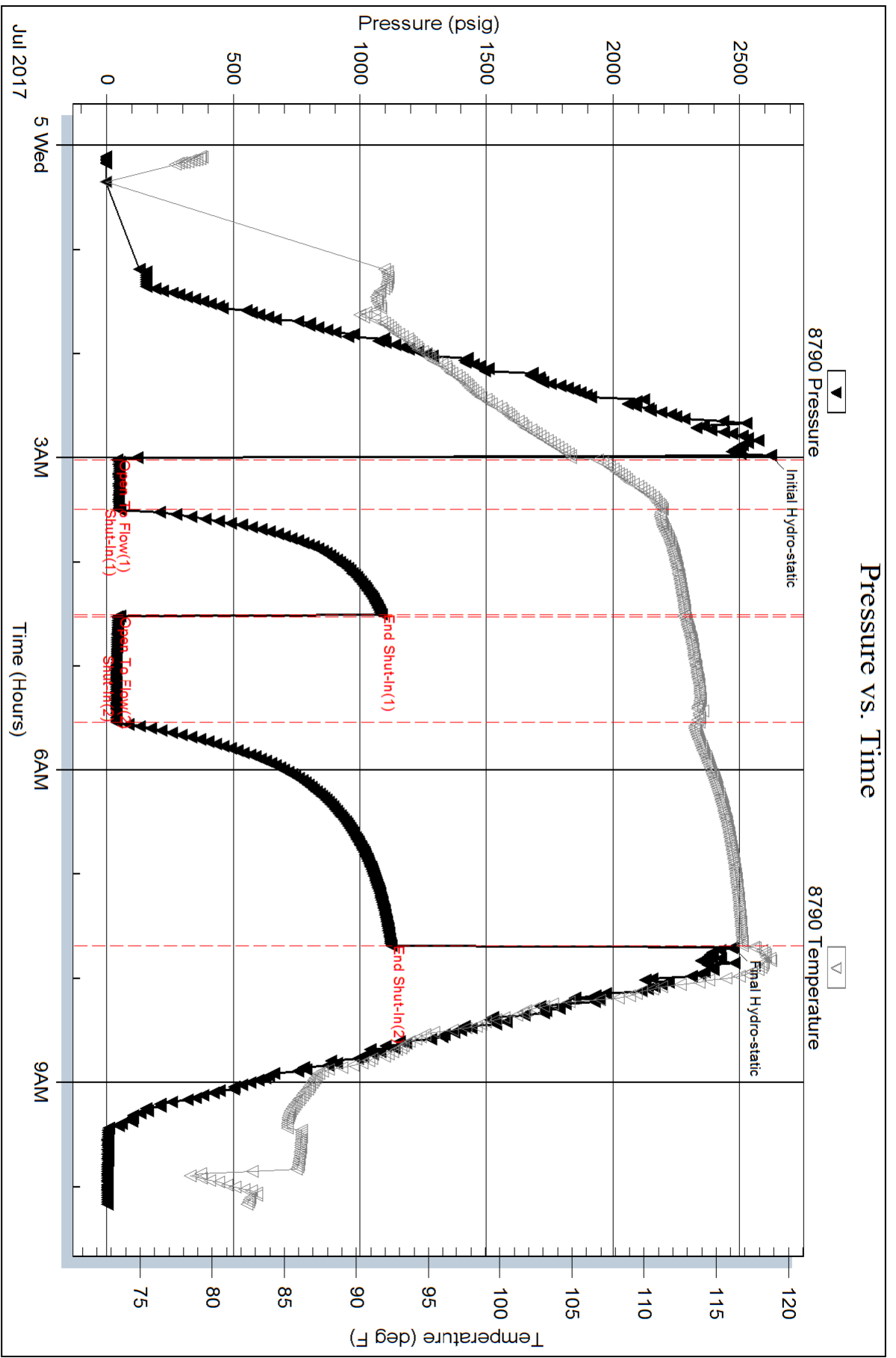
Serial #: 8790

Inside

Vincent Oil Corporation

Keough 6-34

DST Test Number: 2

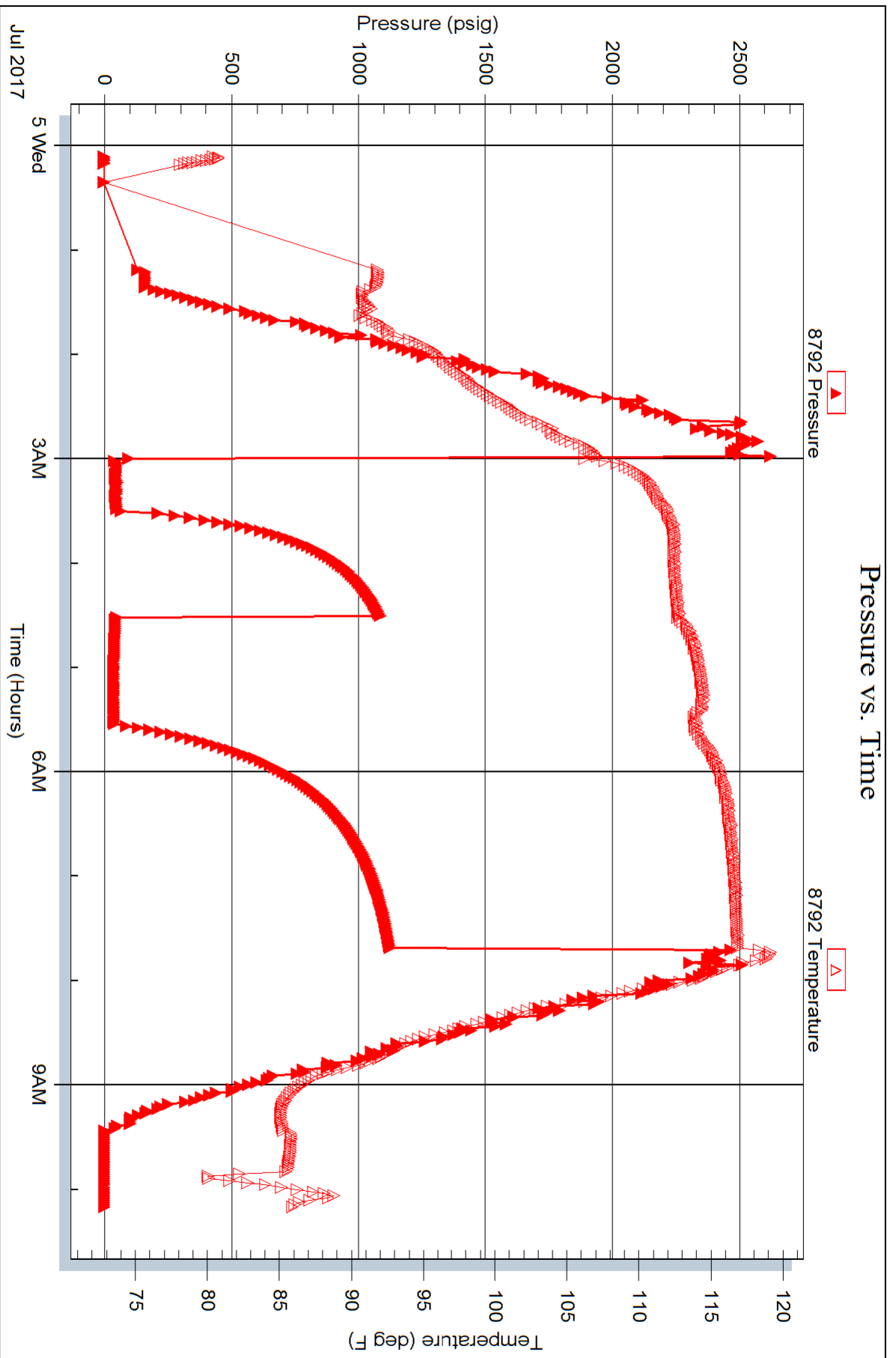


Serial #: 8792

Outside Vincent Oil Corporation

Keough 6-34

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

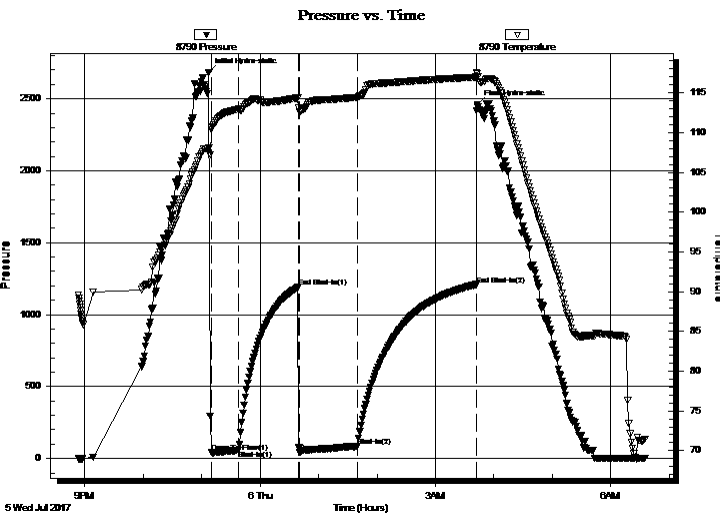
34-28S-23W Ford
Keough 6-34
 Job Ticket: 63604 **DST#: 3**
 Test Start: 2017.07.05 @ 20:53:38

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:10:23
 Time Test Ended: 06:34:53
 Interval: **5226.00 ft (KB) To 5244.00 ft (KB) (TVD)**
 Total Depth: 5244.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 68
 Reference Elevations: 2544.00 ft (KB)
 2531.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8790 Inside
 Press@RunDepth: 86.53 psig @ 5227.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.05 End Date: 2017.07.06 Last Calib.: 2017.07.06
 Start Time: 20:53:43 End Time: 06:34:53 Time On Btm: 2017.07.05 @ 23:07:23
 Time Off Btm: 2017.07.06 @ 03:43:23

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
 IS: GTS in 1 minute During Bleed Off, 1 inch Blow Back
 FF: Strong Blow , BOB & GTS immediate, Gauged & Caught Sample, TSTM @ 40 minutes
 FS: 1 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2683.56	108.05	Initial Hydro-static
3	40.88	110.60	Open To Flow (1)
31	56.38	112.92	Shut-In(1)
92	1191.48	114.37	End Shut-In(1)
93	43.15	112.55	Open To Flow (2)
153	86.53	114.41	Shut-In(2)
275	1209.52	116.96	End Shut-In(2)
276	2461.48	117.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4993 GIP	0.00
60.00	SOMCW 2%O 28%M 70%W	0.30
172.00	SOCM 10%O 90%M	1.30

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	3.00	27.60
Last Gas Rate	0.25	2.00	26.02
Max. Gas Rate	0.25	3.00	27.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

34-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Keough 6-34

Job Ticket: 63604

DST#: 3

ATTN: Tom Dudgeon

Test Start: 2017.07.05 @ 20:53:38

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:

58000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4993 GIP	0.000
60.00	SOMCW 2%O 28%M 70%W	0.295
172.00	SOCM 10%O 90%M	1.301

Total Length: 232.00 ft Total Volume: 1.596 bbl

Num Fluid Samples: 0

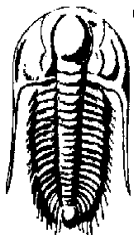
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .12 @ 76 degrees



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

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

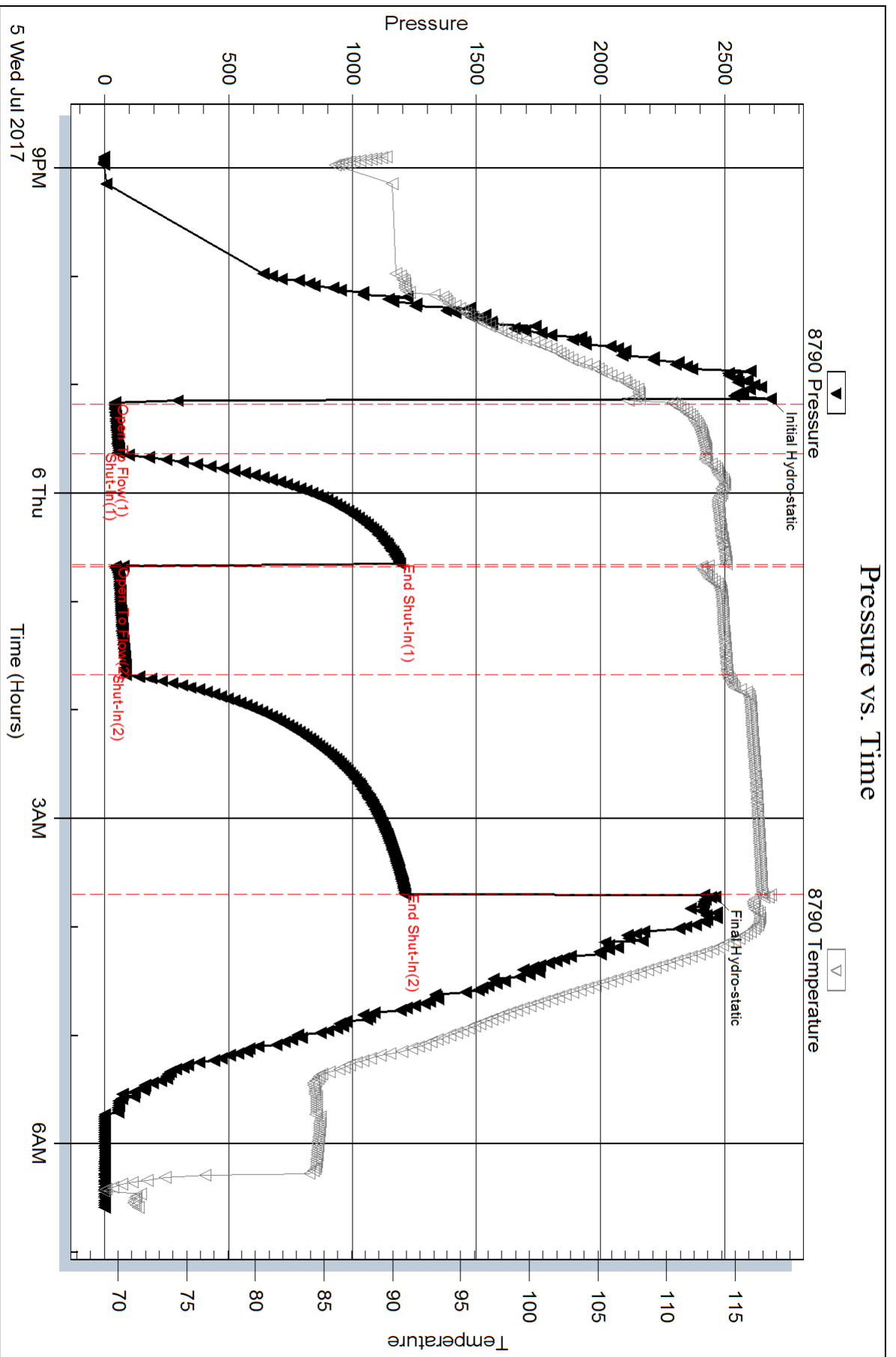
34-28S-23W Ford
Keough 6-34
Job Ticket: 63604 **DST#: 3**
Test Start: 2017.07.05 @ 20:53:38

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	3.00	27.60
2	20	0.25	2.50	26.81
2	30	0.25	2.00	26.02





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

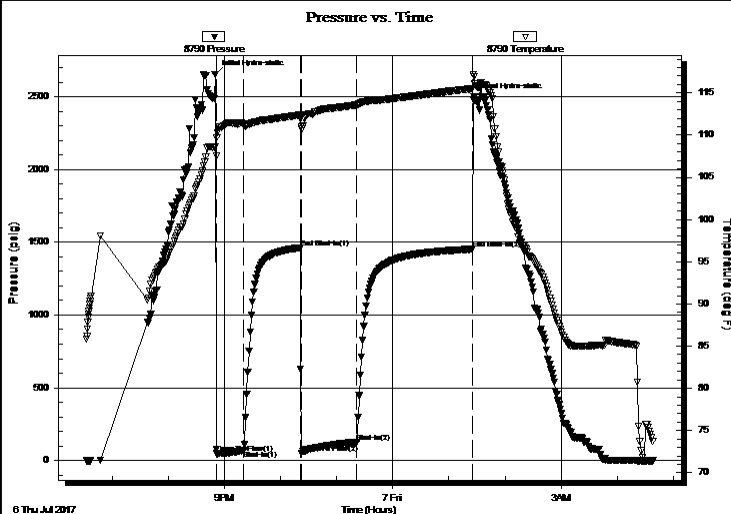
34-28S-23W Ford
Keough 6-34
Job Ticket: 63605 **DST#: 4**
Test Start: 2017.07.06 @ 18:32:54

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:52:09
Time Test Ended: 04:38:54
Interval: **5259.00 ft (KB) To 5281.00 ft (KB) (TVD)**
Total Depth: 5281.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 68
Reference Elevations: 2544.00 ft (KB)
2531.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8790 **Inside**
Press@RunDepth: 127.76 psig @ 5260.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.07.06 End Date: 2017.07.07 Last Calib.: 2017.07.07
Start Time: 18:32:59 End Time: 04:38:54 Time On Btm: 2017.07.06 @ 20:50:24
Time Off Btm: 2017.07.07 @ 01:26:54

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
IS: No Blow Back
FF: Strong Blow , BOB immediate, GTS in 1 minute, Gauged & Caught Sample
FS: 1 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2652.97	108.58	Initial Hydro-static
2	48.52	109.66	Open To Flow (1)
31	68.86	111.37	Shut-In(1)
91	1461.33	112.40	End Shut-In(1)
93	52.17	110.99	Open To Flow (2)
152	127.76	113.56	Shut-In(2)
276	1452.66	115.50	End Shut-In(2)
277	2496.45	116.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4885 GIP	0.00
60.00	OCW 30%O 70%W	0.30
122.00	MVCO 20%M 30%W 50%O	0.60
152.00	SVMCO 10%W 30%M 60%O	2.13

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	12.00	41.88
Last Gas Rate	0.25	12.00	41.88
Max. Gas Rate	0.25	12.00	41.88

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

34-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Keough 6-34

Job Ticket: 63605

DST#: 4

ATTN: Tom Dudgeon

Test Start: 2017.07.06 @ 18:32:54

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:

56000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	4885 GIP	0.000
60.00	OCW 30%O 70%W	0.295
122.00	MWCO 20%M 30%W 50%O	0.600
152.00	SWMCO 10%W 30%M 60%O	2.132

Total Length: 334.00 ft Total Volume: 3.027 bbl

Num Fluid Samples: 0

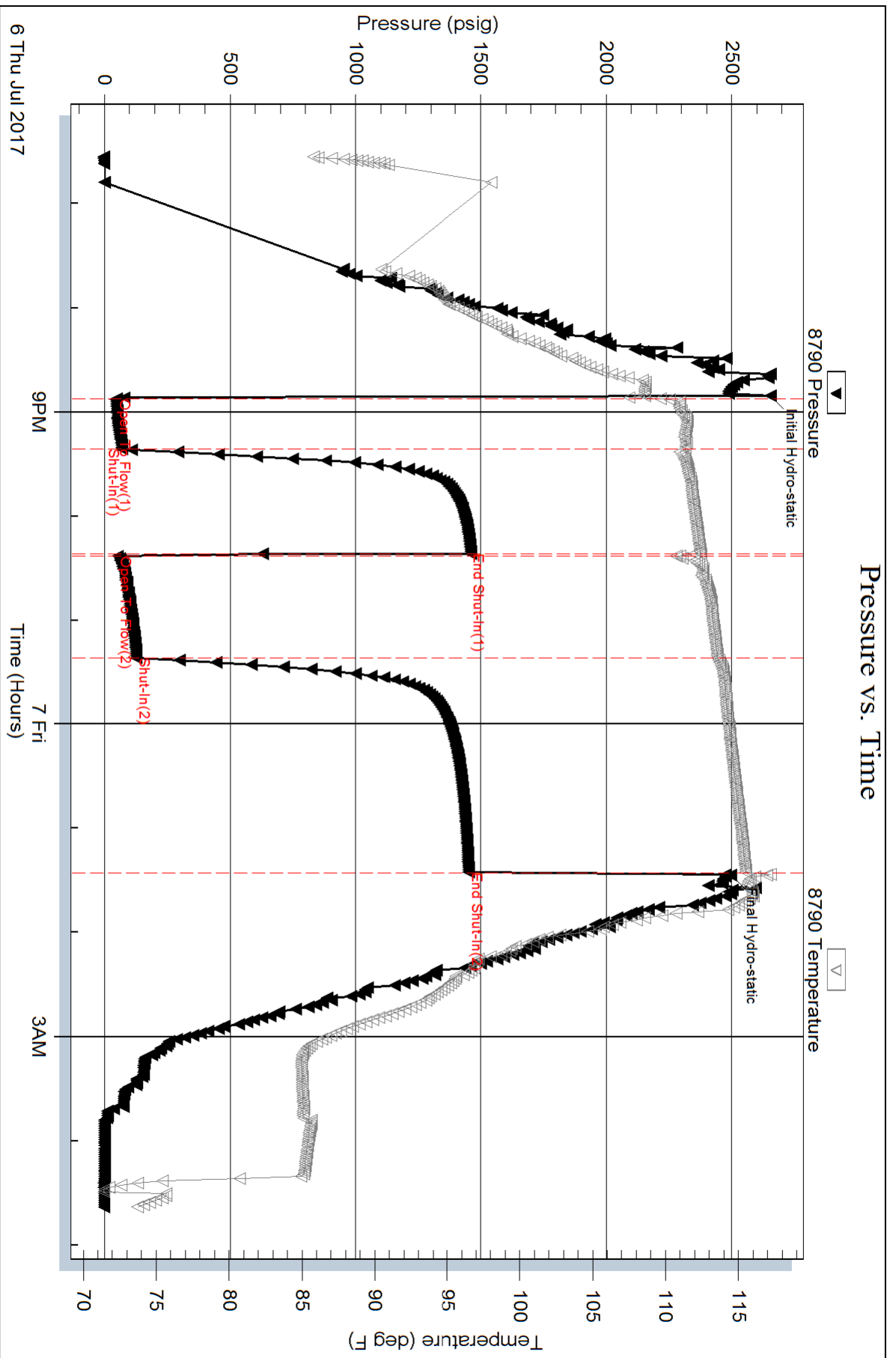
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .13 @ 80 degrees

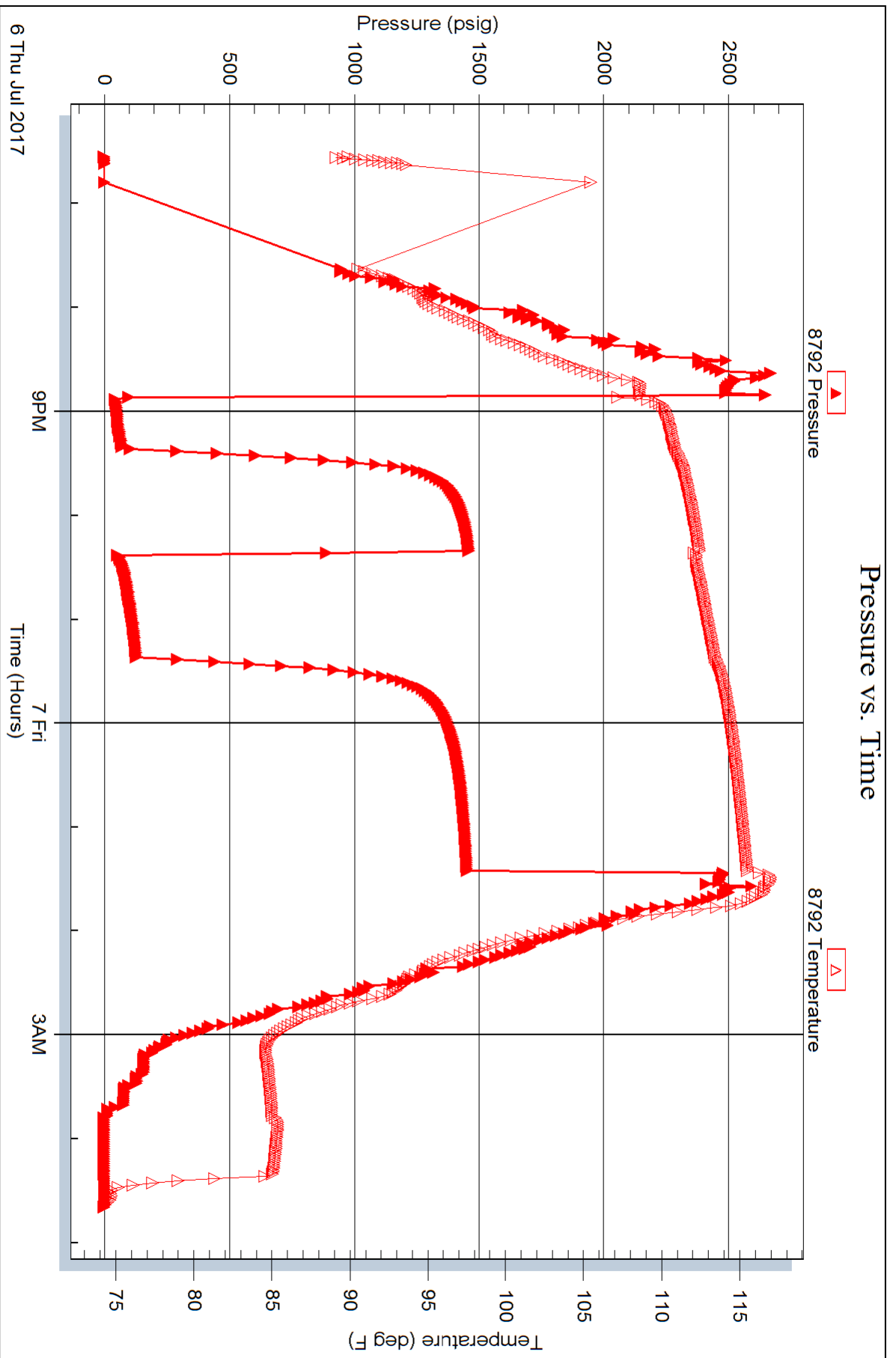


Serial #: 8792

Outside Vincent Oil Corporation

Keough 6-34

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 63605

Printed: 2017.07.07 @ 08:02:57



Scale 1:240 Imperial

Well Name: Keough 6-34
Surface Location: SW NW NE SW 34-28S-23W
Bottom Location:
API: 15-057-20981-00-00
License Number: 5004
Spud Date: 6/26/2017 Time: 10:00 PM
Region:
Drilling Completed: 7/7/2017 Time: 3:27 PM
Surface Coordinates: 2140' FSL & 1458' FWL
Bottom Hole Coordinates:
Ground Elevation: 2531.00ft
K.B. Elevation: 2544.00ft
Logged Interval: 4250.00ft To: 5370.00ft
Total Depth: 5368.00ft
Formation: Mississippian
Drilling Fluid Type: Chemical Mud

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.826812 Latitude: 37.5632572
N/S Co-ord: 2140' FSL
E/W Co-ord: 1458' FWL

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 6-34
Location: SW NW NE SW 34-28S-23W API: 15-057-20981-00-00
Pool: Extension Field: Mullberry Creek
State: Kansas Country: USA

CONTRACTOR

Contractor: Duke Drilling Co., Inc.
Rig #: 7
Rig Type: Rotary
Spud Date: 6/26/2017 Time: 10:00 PM
TD Date: 7/7/2017 Time: 3:27 PM
Rig Release: 7/8/2017 Time: 5:00 PM

LOGGED BY

Company: Vincent Oil Corporation
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: 2544.00ft Ground Elevation: 2531.00ft
 K.B. to Ground: 13.00ft

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	5370.00	5368.00
LTD	5368.00	5368.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical	7/7/2017	3783.00ft	5370.00ft

OPEN HOLE LOGS

Logging Company: ELI Wireline
 Logging Engineer: Jeff Luebbers
 Truck #: 922339
 Logging Date: 7/7/2017 Time Spent: 7
 # Logs Run: 4 # Logs Run Successful: 4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DI	0.00ft	5368.00ft	2.00		1
NEU/DEN/PE	4200.00ft	5368.00ft	2.00		1
MICRO	4200.00ft	5368.00ft	5.00		2
SONIC	0.00ft	5368.00ft	5.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
7/7/2017	0.00ft	5368.00ft	Logs ran successfully, MICRO tool short out on run 2, fixed and ran

CASING SUMMARY

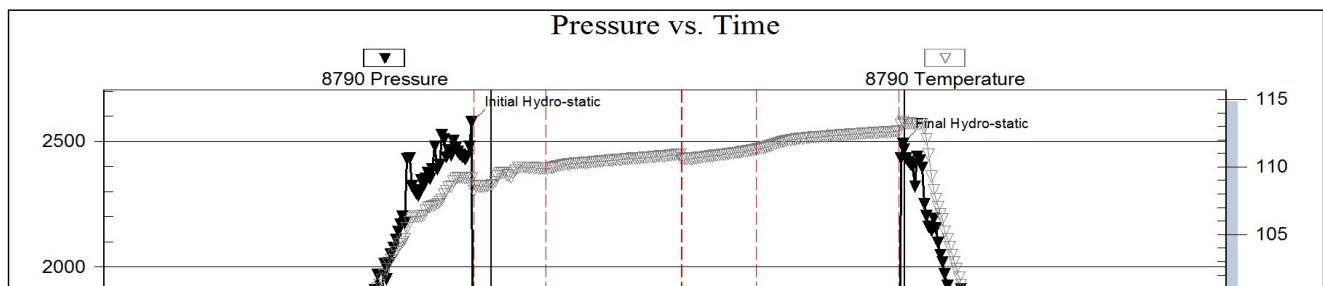
	Surface	Intermediate	Main		
Bit Size	12.25 in		7.88 in		
Hole Size	12.25 in		7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	648 ft	23#	15	6/28/2017 12:45 AM
Int Casing					
Prod Casing	4.5 in	5368 ft	11.6	118	7/8/2017 5:00 PM

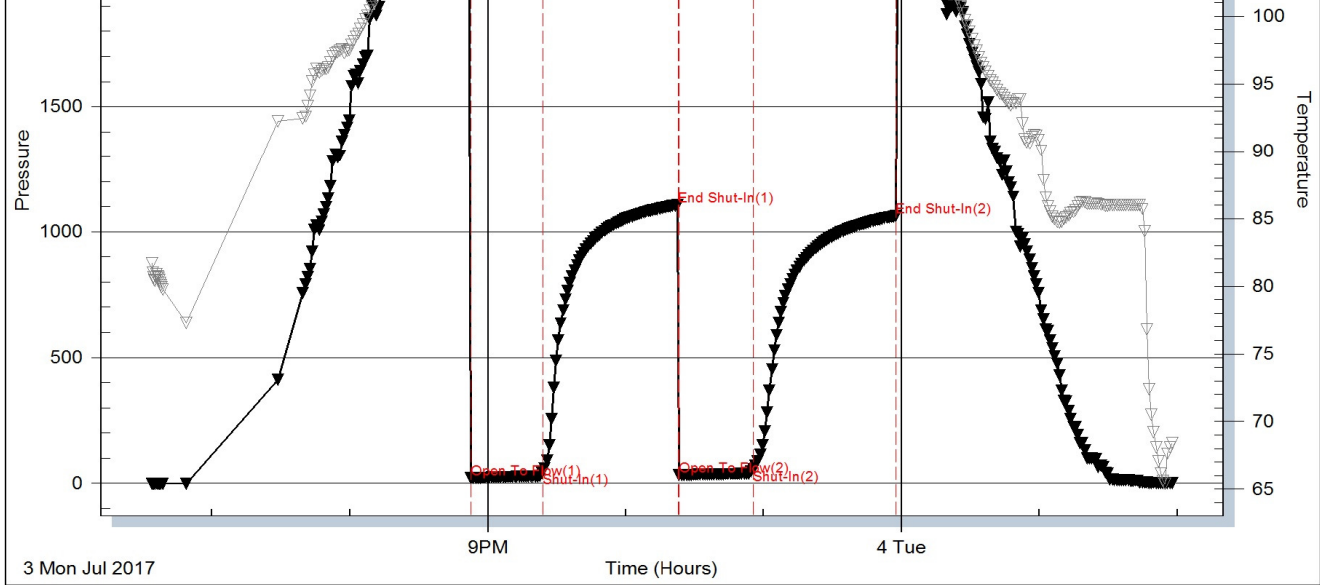
CASING SEQUENCE

Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	648.00 ft
Production	7.88 in	4.50	5368.00 ft

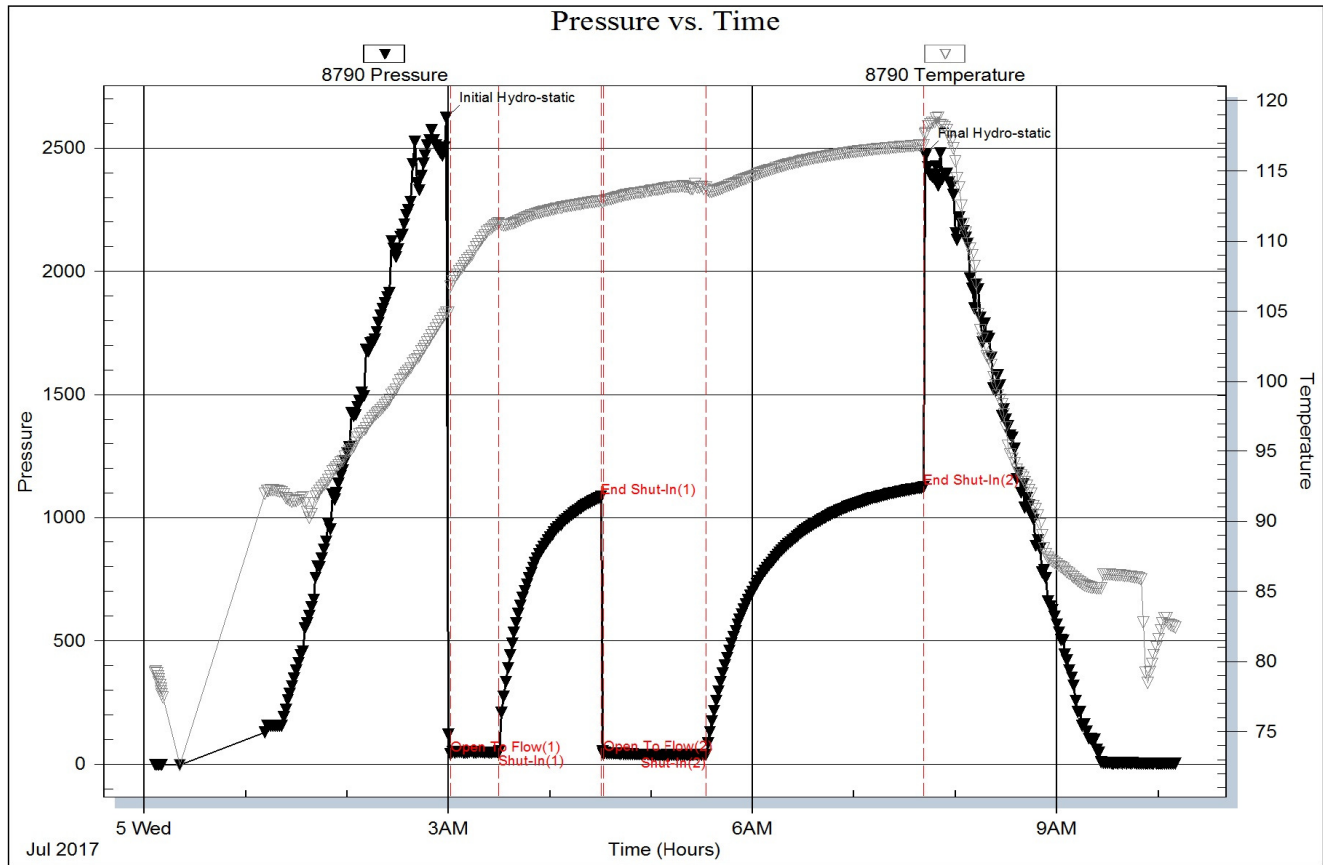
DST #1

Serial #: 8790 Inside Vincent Oil Corporation Keough #6-34 DST Test Number: 1





DST #2



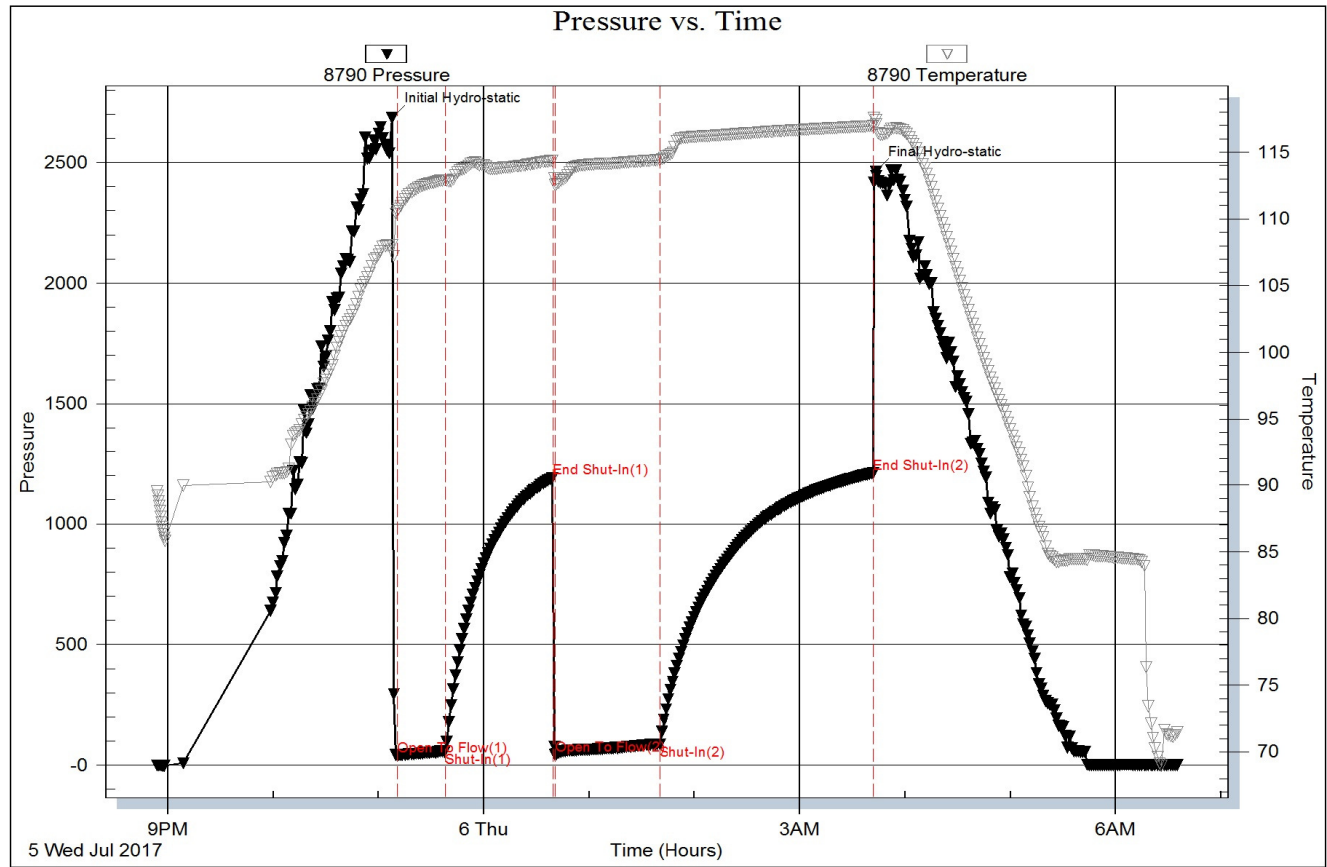
DST #3

Serial #: 8790

Inside Vincent Oil Corporation

Keough #6-34

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63604

Printed: 2017.07.11 @ 09:39:04

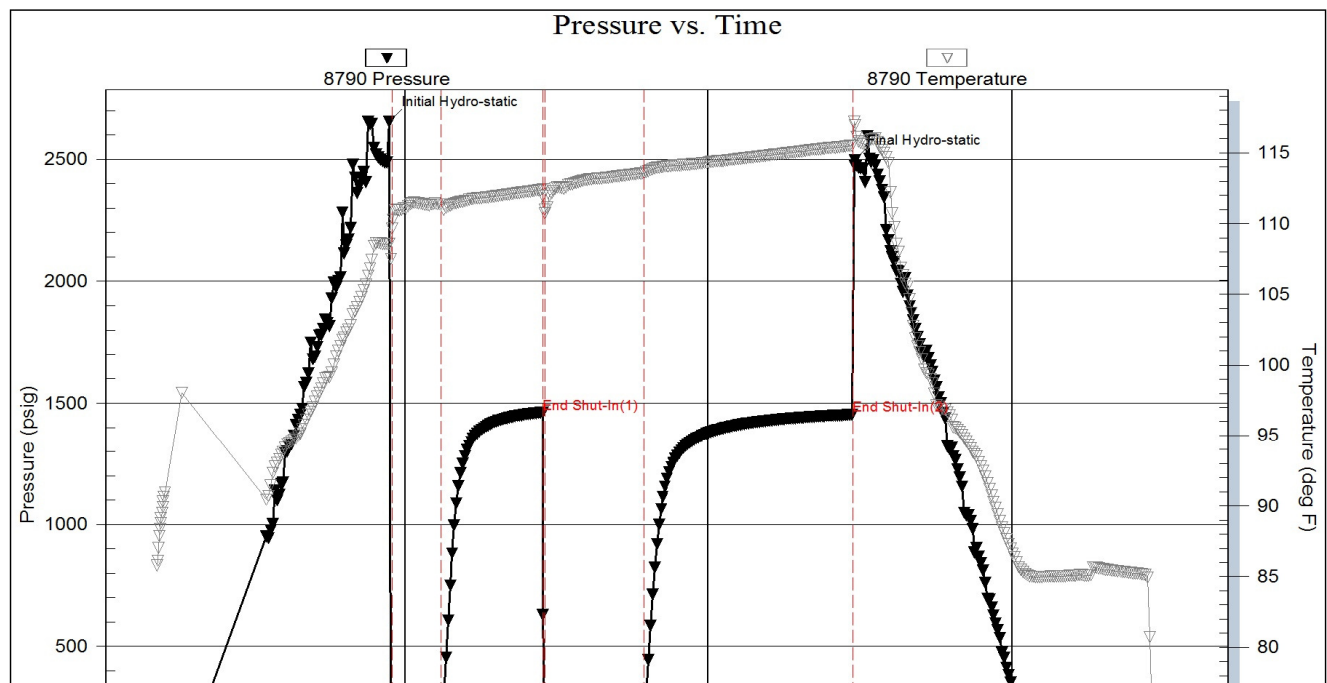
DST #4

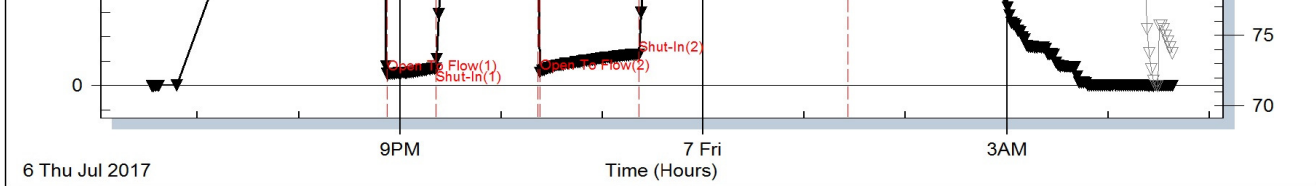
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Inside Vincent Oil Corporation

Keough #6-34

DST Test Number: 4



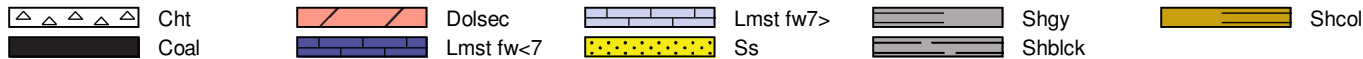


Trilobite Testing, Inc

Ref. No: 63605

Printed: 2017.07.11 @ 09:44:54

ROCK TYPES



ACCESSORIES

MINERAL

- ▲ Chert, dark
- Heavy, dark minerals
- P Pyrite
- △ Chert White

FOSSIL

- ⊕ Brachiopod
- ⊙ Crinoids
- F Fossils < 20%
- ⊘ Oolite
- ∩ Spines

STRINGER

- ▨ Dolomite
- ⊙ Conglomerate

TEXTURE

- C Chalky
- e Earthy
- FX FinexIn
- MX MicroxIn

OTHER SYMBOLS

POROSITY TYPE

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

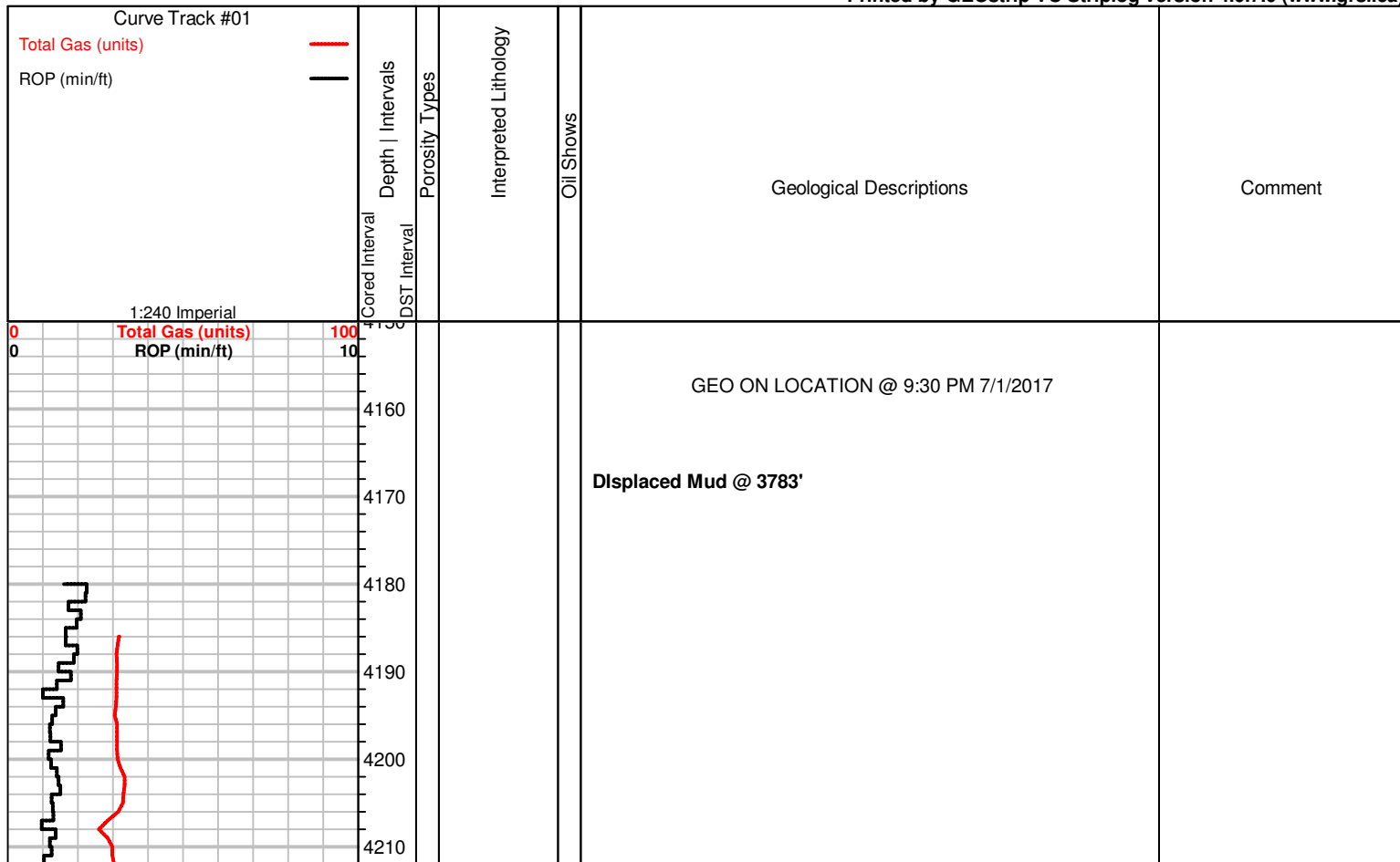
OIL SHOWS

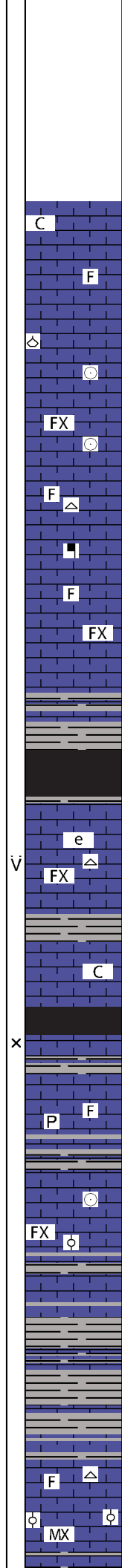
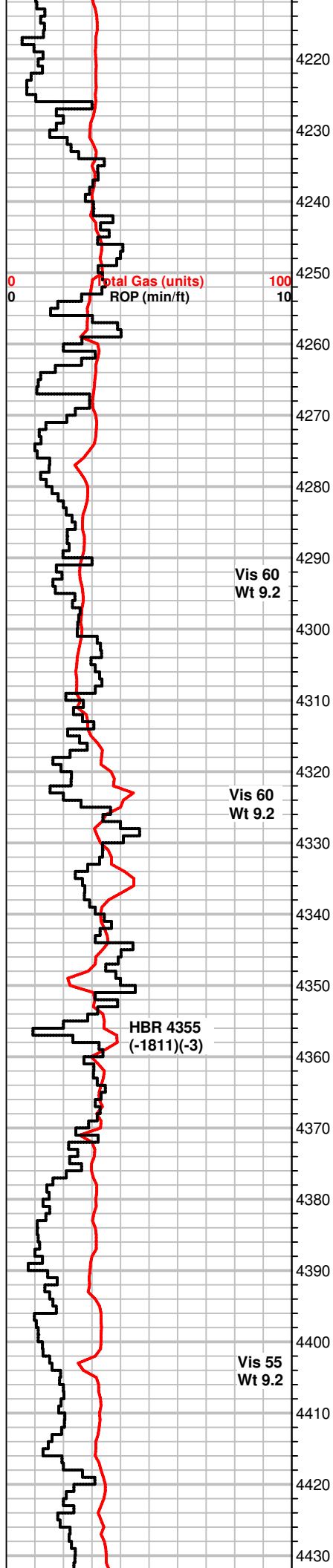
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

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MS-WS, crm to off white, vf-xln to chalky pcs, fossils, soft to firm, NS

MS, scatt WS, mostly crm, tan, brn, vf-xln, fossil frgmts, firm, scatt SH, gray, dk. gray pcs, waxy-sea green

MS, crm to lt. tan, f-xln, gritty txt, micro oolitic, scatt calcite veins, some gray pcs w/ fusulinids, NS

MS, crm to lt. gray, dense, fossils scatt, hard, NS
some SH, gray

MS-WS, lt. gray to crm/off white, f to m-xln, some chalky pcs, firm to hard, mottled, micro oolitic to sli. sandy pcs, NS

MS, crm to lt. tan, vf-xln to chalky, firm/brittle, cherty pcs, some mineral specs

MS, crm to tan, f-xln, hard, some fossil frgmts, mostly chalky pcs, some grayish brn pcs

MS-WS, crm to lt. tan, vf-xln, micro-oolitic, scatt fossils, rare blk SH, some grays

SH, blk, gray, silty in part, MS-WS, crm to tan, oolitic, f to co.gr oolitic/moldic, dense, NS

MS, crm, f-xln, earthy to chalky pcs, fossils, rare Chert, white NS

some SH, dk. gray, MS, crm to off white, A.A.

SH, blk, gas bubbles

MS-WS, tan to crm, lt. gray, scatt oolitic/fossilif. pcs, lesser SH, blk, grays

MS, tan, crm, f-xln, firm, pyrite, some chalky pcs, fossils scatt, SH, gray, blk, brn, silty in part

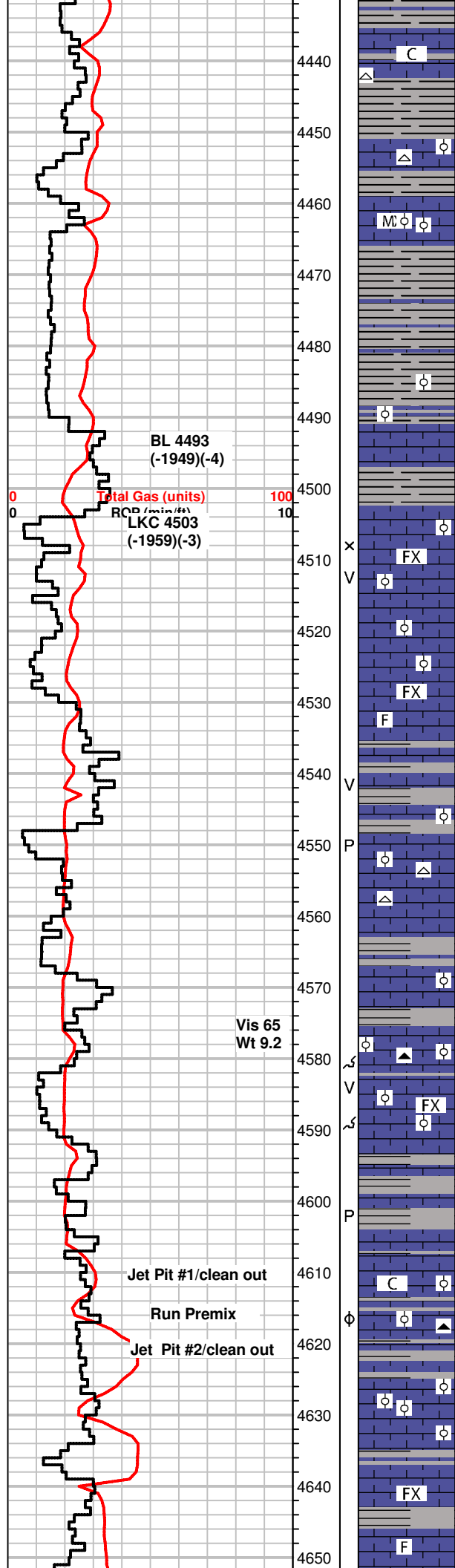
MS-WS, crm, gray, brn, f-xln, firm to hard, some dense, fossils, sub oolitic pcs, some chalky, dull fluor, NS
SH, grays

WS-MS, crm to gray, f-xln, hard, fossilif., NS
SH, grays

SH, gray, lt. gray, MS, crm to gray, f-xln, dense, hard, some Chert, white

MS, crm, vf-xln, gritty/micro oolitic txt, cherty, fossil frgmts
SH, gray

+8 UGK, shale gas



SH, gray, silty, more fresh pcs present
MS-WS, crm to tan, fossilif, micro oolitic/gritty, sli chalky pcs, NS

MS-WS, crm to tan, f-xln, fossilif, hard to firm, mineral specs, some SH, grays

WS-PS, crm to brn, mic-xln, dense, oolitic(m-gr), Chert, white, SH, gray, green, brn, silty/sandy in part

SH, scatt A.A., MS-WS, crm to lt. tan, f-xln, sub oolitic, firm to soft, some fossils, sli. chalky pcs, NS

SH, gray, brn, red, green, striated, MS-WS, gray to crm, f-xln, hard, fossilif, some chalky to cherty in part, rare pyrite

SH, influx, gray, some brn, green, MS, crm, f-xln, firm, scatt, micro oolitic, hard

MS, brn, vf-xln to mic-xln, dense, scatt fossils, sub oolitic some crm, chalky in part, firm, NS
SH, brn, gray, dk. gray green

MS, crm to off white, f-xln, gritty to sub oolitic pcs, hard, dull fluor, NS

MS, A.A., gritty, micro oolitic, hard, NS

MS, crm to tan, f-xln, gritty, silty txt in part, some off white, f-xln, fossils scatt, NS

MS, crm to off white, firm to hard, most dense, fossils rare, scatt. SH, gray, brn, dk. gray

scatt SH, gray
MS-WS, crm to off white, f-xln, dense, some pcs m-gr oolitic/fossilif, NS

MS, crm to tan, mic-xln to massive txt, dense, fossils rare, assoc Chert, white

MS, tan, gray, f-xln, gritty to massive txt, hard, scatt fossils, NS some SH, grays

MS-WS, crm to tan, f-xln, dense, fossilif, oolitic/moldic pcs rare, NS, scatt SH, gray, brn

WS-MS, crm to gray, f-xln, m to f-gr oolitic pcs, brittle, hard, Chert, brn

SH, gray, green, silty, firm, MS-WS, crm to tan, f-xln, massive, fossilif/oolitic pcs, hard, dull fluor, NS

MS-WS, A.A., some gray, gritty, fossilif., NS
SH, gray, green

MS, crm to off white, some chalky to gritty/silty txt, most pcs massive, dense, scatt oolitic pcs, Chert, blk

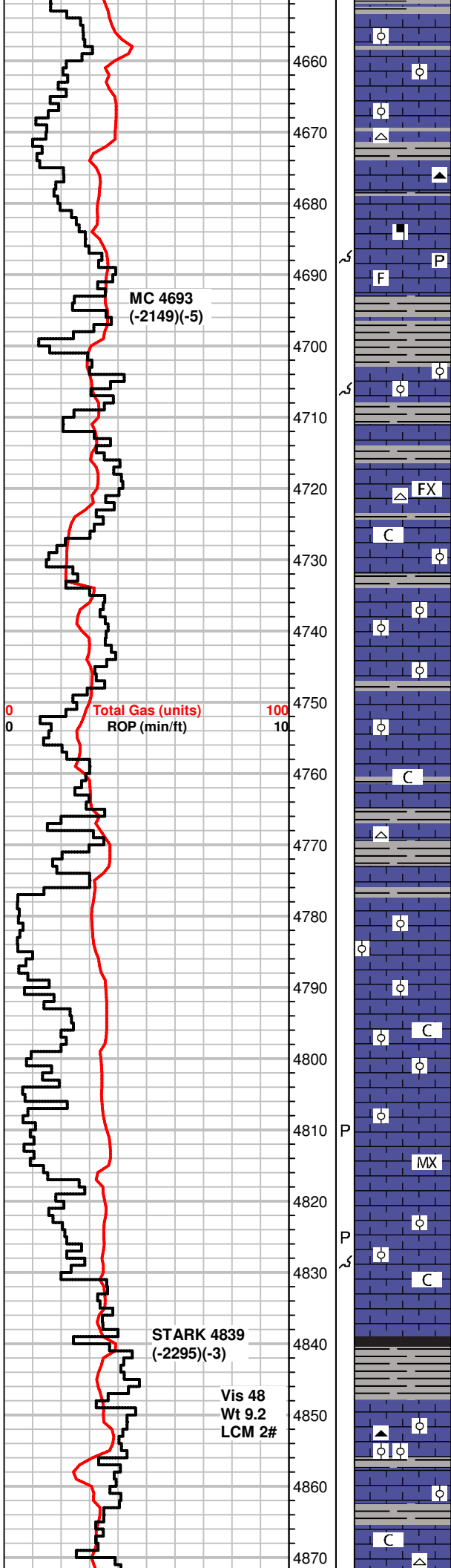
WS-MS, off white to crm, sub oolitic (f to m-gr), micro oolitic to gritty, massive, dense, NS, some pcs brn w/ mineral specs, shaly

MS-WS, gray to crm, some A.A., f-xln, chalky, soft pcs, some SH, grays, greenish, gray

SH, gray, brn, silty
MS, crm, tan, gray, f-xln, dense, rare fossils, barren, NS

working on mud pump(45 minutes)

Straight Hole Survey
1 degree



MS, crm to tan, suboolitic in part, A.A., SH, gray, greenish brn

MS-WS, tan, brn, gray, f to m-xln, hard, fossils/oolitic pcs, some mottled, NS

MS, brn, tan, rare gray, mic to f-xln, firm, brittle, rare fossils/glauc, crinoids, Chert, gray, white, rare lt. edge stn dry
SH, gray, green

MS-WS, brn to crm, m-xln, mottled fossils/minerals, dense SH, dk. gray, green, striated, pyrite

influx SH, dk. gray to gray
scatt MS, crm to tan, micro oolitic/gritty txt, hard, NS

SH, gray, dk. gray, green, silty pcs, some brn
scatt MS, tan, mic-xln, dense, f-xln to chalky pcs

MS-WS, crm to tan, f-xln to chalky, mineral specs, fossils, Chert, white, carrying SH, gray, green

SH, grays, sli. greenish, MS-WS, crm to tan, scatt gray pcs, f-xln, f-gr oolitic txt, firm to hard, NS

MS, crm to brn, f-xln, hard, dense, scatt fossil frgmts, NS

MS, crm to brn, f-xln, some pcs chalky, sub oolitic, carrying SHs from above

SH, dk. gray, grays, silty, MS-WS, crm, f-xln, dense to firm, sub oolitic, chalky in part, scatt fossils, NS

SH, gray, sea green
MS, crm to tan, f-xln, oolites, hard, scatt white Chert

SH, gray, brn, green, MS, crm, f-xln, sub oolitic, some dense, NS

MS, crm to brn, f-xln, sli mottled pcs, sub oolitic in part, fossils, most dense, some SH, gray, platy

Flood WS-PS, crm, m-xln, oolitic, moldic, chalky matrix, firm, NS, moldic por.

WS-PS, A.A., some MS, crm to brn, f-xln, massive txt, dense, NS

MS-WS, crm to tan, f-xln to chalky txt, m-gr oolites in chalky matrix, some tite, dark ooids scatt, hard to firm, Chert, brn

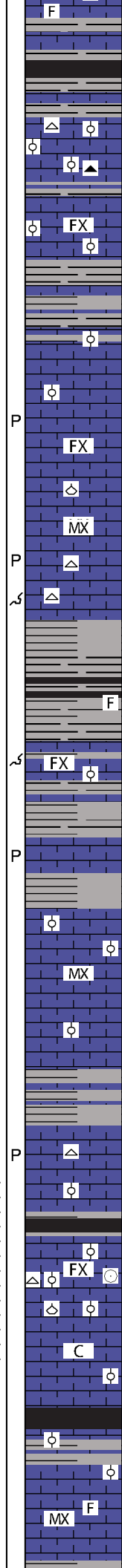
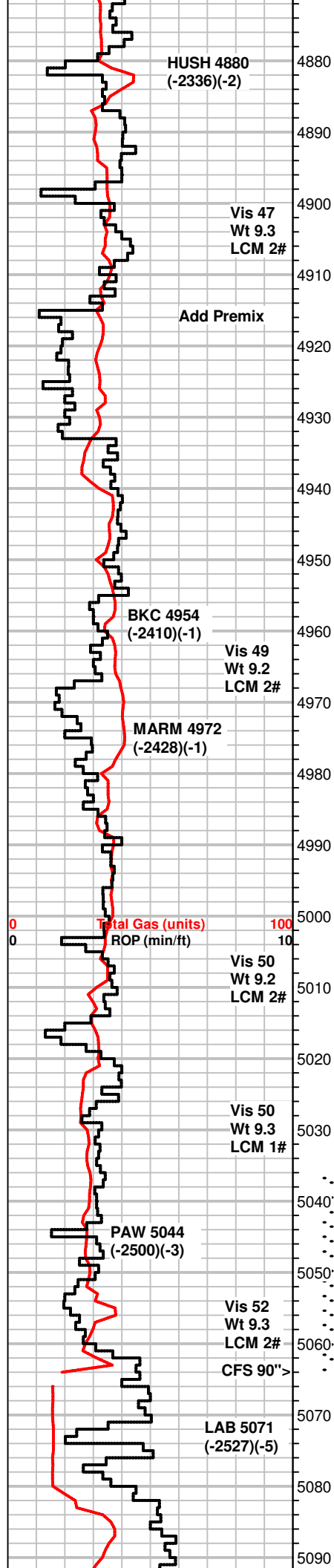
SH, brn, dk. gray

SH, grays

MS, tan to crm, f-xln w/m gr oolites in dense matrix, Chert, gray, micro oolitic

MS-WS, crm, some lt. tan, f-xln, gritty txt, most hard, dense, some firm-chalky pcs, NS

MS-WS, crm, A.A., f-xln to chalky, some dense, Chert, white,



fossils
scatt Sh, grays

SH, blk, gray, green
MS, crm to off white, mic-xln, dense, rare PS, mgo oolitic in tite dense matrix, Chert white, gray, blk

MS, A.A., Chert, brn
SH, gray, green

MS, crm to tan, f-xln, sli. chalky, soft, friable/brittle, sli mottled pcs, some sub oolitic, SH, gray, green

MS-WS, crm to tan, f to mic-xln, chalky pcs scatt, rare oomoldic pcs, SH, dk. gray, gray

SH, gray, green, silty, MS, gray to crm, f-xln, some pcs gritty/sub oolitic, dense, silty to sandy in part, NS

SH, dk. gray, gray, green, MS tan to crm, mic-xln, dense, rare fossil frgmts, NS

flood, MS, crm, f to mic-xln, dense looking, brittle, NS
Chert, white, gray, fossils, some SH, grays, greenish gray

MS-WS, brn to crm, f- to mic-xln, dense to chalky pcs, oolitic(micro to m-gr), gritty pcs, Chert, white, tan, fossils, scatt SH, A.A.

Increase in SH, gray, MS, crm to rare gray pcs, f-xln, dense, silty looking, NS

MS, gray, tan, f-xln, hard, dense, scatt fossils, rare WS, crm oolitic, hard tite calcite mtrx, SH, grays

Inc. in SH, gray, MS-WS, crm to gray, tan, f-xln, gritty/silty pcs, glauc, sub oolitic/fossils scatt, NS

WS-MS, A.A., dense
SH, gray, greenish gray, silty, striated

SH, gray, greenish gray, rare pyrite, MS-WS, crm, f-xln, dense, hard, some f-gr oolitic, dull fluor, NS

MS-WS, crm to tan, f-xln, sub oolitic, some mic-xln, massive, dense, scatt SH, gray

MS-WS, crm, brn, gray, f-xln, hard, some pcs oolitic, m-gr. dense, gritty txt, SH, gray, green

MS, crm to brn, f to mic-xln, dense, oolitic pcs scatt, NS
some SH, gray

MS, brn to crm, vf to mic-xln, massive, dense, hard, NS
scatt chalky pcs, suboolitic pcs rare

SH, blk, carb, gray, red/gray
MS-WS, brn, to crm, f-xln, oolitic to fossilif., dense, hard, some brittle, pcs becoming suboolitic, some chalky dull fluor, 1 pc with bright fluor on edge, streaming cut, no odor, Chert, white

MS, crm, f-xln, hard to firm, dense pcs, some chalky, rare fossils, Chert, white scatt SH, blk, gray

MS, crm to tan, chalky to f-xln, firm to dense, NS
SH, gray to dk. gray

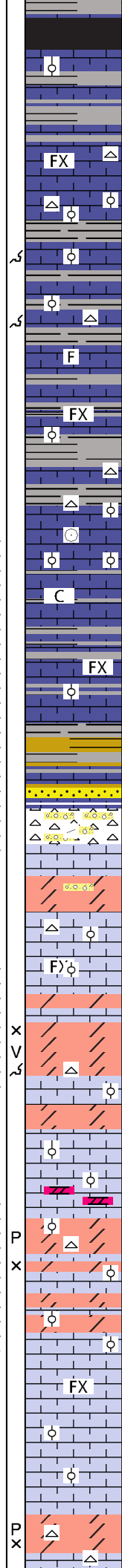
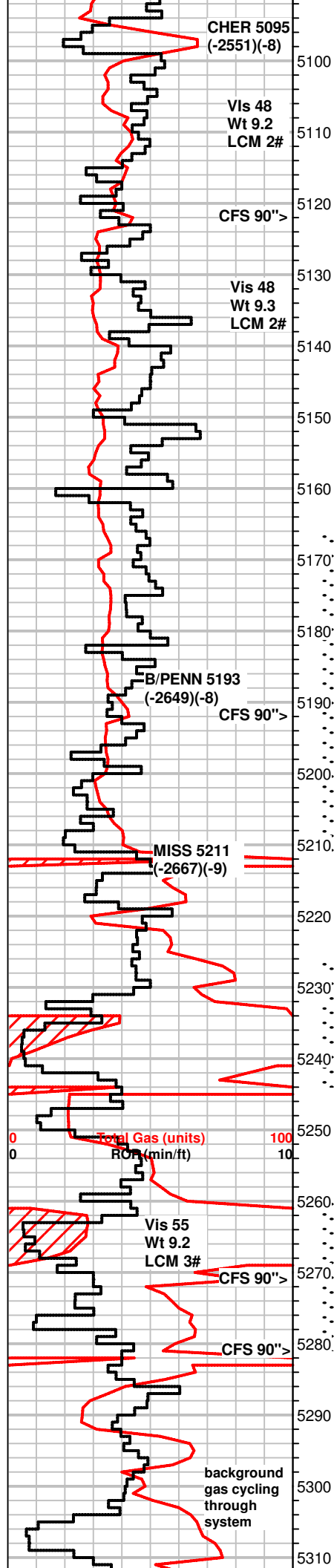
MS, crm, f-xln, massive pcs, hard, dense, rare fossis, some oolitic in part, Chert, opaque, fossils, rare SH, gray

MS-WS, crm to brn, f-xln to mic-xln, dense, gritty pcs, fossilif., sub oolitic, dull fluor, NS

DST #1 5036-5064
Pawnee
30-60-30-60
WB
WB
Rec: 5' Mud
IH 2576#
IF 20-46#
ISIP 1106#
FF 32-57#
FSIP 1062#
FH 2491#
Temp 113°F

+8 UGK
PIPE STRAP @ 5064' 4.63
Long-Windy conditions

GAS DETECTOR DOWN
FROM 5063-5080
Failed Extractor



SH, blk, grays
MS-WS, crm to brn, f-xln to mic-xln, dense, gritty pcs, fossils, sub oolitic, dull fluor, NS

SH, gray, green, rare dk. gray
MS, crm to tan, some gray, f-xln, most A.A., lesser fossils, Chert, white, fossilif.

MS, crm to tan, f to mic-xln, dense, fossils, micro oolitic/gritty txt in pcs, Chert, white, tan

MS-WS, crm to brn, some sli. gray, f to m-xln, hard, some massive, dense, fossilif., dull fluor, NS, scatt SH, gray, blk,

SH, blk, gray
MS, crm to tan, gray, f-xln, earthy to massive, hard, some oolitic, f to m-gr ooids in tite mtrx, Chert, tan, white, fossils lesser SH, blk to gray

MS-WS, crm to brn, f-xln, firm to hard, fossils, scatt oolitic pcs, dull fluor, NS, SH, blk, gray

MS, crm, gray, some brn, massive mic to f-xln txt, hard, some fossils, crm pcs chalky, some sub oolitic, Chert, white SH, A.A., lesser

Inc. in SH, blk, gray, green, MS-WS, brn to gray, f- to m-xln, hard, dense, sub oolitic to fossilif(crinoids, ringed m-gr ooids), some shaly pcs, NS

MS-WS, crm to brn, chalky to f-xln, dense, firm to hard, sub oolitic, dull fluor, NS, rare SH, blk, gray

MS-WS, crm to brn, A.A., some scatt oolitic pcs, m-gr ooids in tite mtrx, dull fluor, NS

MS-WS, crm to brn, gray, ft mic-xln, dense, fossilif, some pcs(5%) w/ bright fluor, most dull mineral fluor, 3 pcs inst. streaming cut, faint odor in bag, rare light stn, no vis. por.

SH, blk, gray, sea green, MS-WS, A.A., Chert, white, brn, fossils, scatt MS-WS, crm, f-xln, firm, chalky, carrying shows

SH, varicolored, sandy in part, SS clusters, Qtz pebbles, pitted, frosted, white, green, f-gr, sorted, rounded, tite, Chert, vary colored, mostly white, some wethrd, **live oil droplets, good spotty stn, gas bubbles, flash odor, milky to streaming cut. spty to even stain dry** MS-PS, crm, oolitic, m-gr ooids in tite matrix, bright fluor, milky cut(carrying above?)

Dolo, gray, vf to mic-xln txt, hard, tite looking, NS
Chert, A.A., lesser, still w/ stn, no odor
MS, crm to off white, f-xln, sub oolitic, fossilif., NS

WS-PS, off white to crm, some brn, f-xln, chalky to oolitic pcs, some dense, fossilif., dull fluor, NS

Dolo, brn to tan, some lt. gray, f-xln to vf-sucrosic txt, firm, **good odor in bag, gas bubbles, live oil drops in tray, even stain, instant cut, int-xln to pp por.**
60" inc in Dolo, rare pcs w/vuggy por., f-xln to sub oolitic txt

Dolo, crm to gray, vf-xln, gritty txt, hard, mineral fluor, some pcs slow milky cut.
WS-PS, off white to crm, f-xln, hard, dense pcs, oolitic, m-gr, some w/ ringed ooids, tite calcite mtrx, dull fluor, NS

Dolo, gray to scatt crm pcs, f-xln, some pcs sugary txt, some oolitic (m-gr), firm to friable, **fair odor, spotty to even stn, free oil in tray, bright flour, streaming inst. cut to slow milky cut**

Dolo., A.A., crm to lt brn, vf-xln to m-xln oolitic pcs, firm to brittle, mineral fluor, **gold flour, good odor, spotty stn, inst. cut**

MS-PS, crm to off white, f-xln, oolitic to sub oolitic, fossilif, some pcs sli. dolomitic, dull fluor, NS

MS-PS, A.A., some pcs brn, dense, mic-xln, fossil/oolitic, NS scatt Dolo, brn to gray, limey, f-xln, firm, gritty txt, dull fluor, NS

Dolo, brn, f-xln, f-gr oolitic in most pcs, some m-gr, hard, to firm, Cherty pcs, dull fluor, no odor, 1 pc w/ slow milky cut(carrying?), rare very spotty stn in dry

+44 UGK

DST #2 5166-5212
B/Penn-Morrow
30-60-60-120
SB BOB 1 min
NBB
SB BOB immed.
GTS/1min
Ga .25 inch choke
27.603 MCF/10min
27.603 MCF/20min
26.810 MCF/30min
26.810 MCF/40min
26.017 MCF/50min
26.017 MCF/60min
Rec: 5097' GIP
60' GCM(5%g,95%am)
IH 2622#
IF 40-47#
ISIP 1083#
FF 42-38#
FSIP 122#
FH 2477#
Temp 119°F

+10 UGK

+16 UGK, +6 UGK recycle

Dump 50bbl gassy heavy mud and ran premix

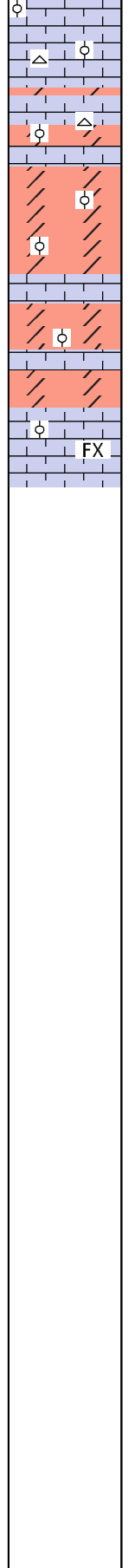
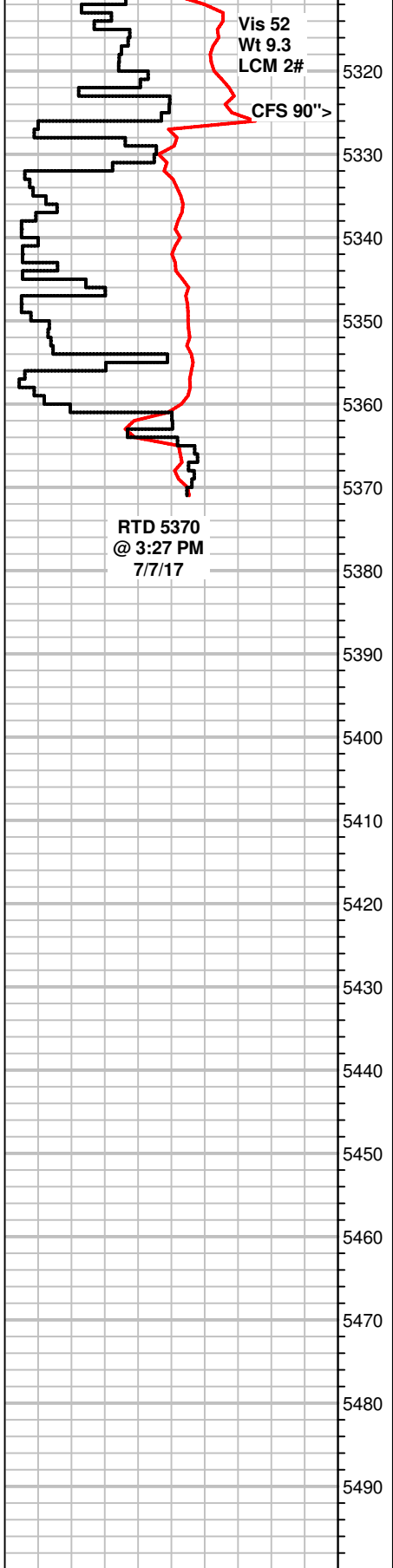
Straight Hole 1.25 degree

+100 UGK, 98 unit recycle

+80 UGK, +32 UGK recycle

+12 UGK, waiting on recycle

DST #3 5226-5244
MISS
30-60-60-120
SB BOB 30 Sec
GTS 1 min into bleed off,
1 in BB
SB BOB immed/GTS
immed, GA
27.603 MCF/10min
26.810 MCF/20min
26.017 MCF/30min
TSTM/40min



Scatt Dolo, A.A., decreasing amount
WS-PS, brn to crm, f- to m-gr oolitic, hard, Chert frgmts, white, NS

WS-PS, off white to crm, f-xln to chalky, oolitic, firm, fossilif, Chert, white, fossils
Dolo, brn, f-xln, oolitic to gritty txt, hard to firm, dull fluor, NS

Dolo, brn, gray, f-gr, sucrosic txt, some w/ mineral and dark organic specs, sli. oolitic pcs, brittle, dull fluor, NS

Dolo, A.A., influx of dark gray to black dolomite, fossilif/organic, dense, NS
scatt WS-PS, crm to off white, f-xln, dense looking, brittle, dull fluor, NS
rare Chert, white/tan

PS-WS, off white, crm, f-xln, chalky to f-xln txt with m-gr ooids in firm matrix, friable, glauc specs rare, NS

TSTM/50min
TSTM/60min
Rec: 4993' GIP
172' SOCM(10o,90m)
60' SOMCW(2o,28m,70w)
IH 2683#
IF 41-56#
ISIP 1191#
FF 43-86#
FSIP 1209#
FH 2461#
Temp 117°F
API .12 @ 76°F
CI 58,000ppm

Straight Hole 1.5 degree

DST #4 5259-5281
MISS
30-60-60-120
SB BOB 3 min
NBB
SB BOB immed
GTS 3min GA
41.881 MCFG throughout
open
1 inch BB
Rec: 4885' GIP
152' SWMCO
(60o,30m,10w)
122' MWCO
(50o,20m,30w)
60' OCW (30o,70w)
IH 2653#
IF 48-69#
ISIP 1461#
FF 52-128#
FSIP 1453#
FH 2496#
Temp 117°F
API .13 @ 80°F
CI 56,000ppm