

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1249470
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1249470

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Brown 2-28
Doc ID	1249470

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Brown 2-28
Doc ID	1249470

Tops

Name	Top	Datum
Heebner Shale	4292	(-1809)
Brown Limestone	4428	(-1945)
Lansing	4437	(-1954)
Stark Shale	4772	(-2289)
Pawnee	4987	(-2504)
Cherokee Shale	5033	(-2550)
Base Penn Limestone	5128	(-2645)
Mississippian	5157	(-2674)
RTD	5300	(-2817)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Brown 2-28
Doc ID	1249470

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	Perf 5172' to 5180' (Miss)	Ran RBP with tubing & Packer	
		Acidized with 2000 gal 15% MCA	
		Swab & KOF 5.8 BWPH, SDFN	
		Flowed 3.34 BWPH with trace oil, killed well & set CIBP at 5020'	
4	Perf 4988' to 4994' (Pawnee)	Acidized with 900 gal 15% MCA	
		Swabbed 4 hrs with final rate of 12.5 BOPH, SDFN	
		SITP 140#, FL at 2350', Swab 18 BOPH, pulled RBP & packer, ran tubing to 5008', SDFN	
		Ran BHP & rods, set surf equip, turned to prod 2/13/2015	

QUALITY WELL SERVICE, INC.

6282

Federal Tax I.D. # 481187368

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	12-15-14	Sec.	28	Twp.	28s	Range	23w	County	FORD	State	KS	On Location	8:00PM	Finish	11:30PM
Lease	Brown		Well No.		2-28		Location Kingsdown, KS 2N, 4W, 134N, w/nts								
Contractor	Val #2							Owner Vincent							
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.		607		Charge To Vincent								
Csg.	8 5/8		24 #		Depth 606		Street								
Tbg. Size			Depth				City State								
Tool			Depth				City State								
Cement Left in Csg.	42'		Shoe Joint		42.16		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		36 Bbls Fresh #420		Cement Amount Ordered 125 sx MDC + 3% cc + 1/4" F.S. \$								
EQUIPMENT							125 sx A + 2% gel + 3% cc + 1/4" F.S. seal								
Pumptrk	8	No.	Mike B				Common 125								
Bulktrk	9	No.	David F				Poz. Mix MDC 125								
Bulktrk	10	No.	David B				Gel. 11								
Pickup		No.					Calcium 10								
JOB SERVICES & REMARKS							Hubs								
Rat Hole							Salt								
Mouse Hole							Flowseal								
Centralizers							Kol-Seal 66.25								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
Pipe on BHM, Back Circ, Pump 3Bbl							Sand								
Spacer, Mix 125sx lite weight cement,							Handling 271								
Mix 125sx tail cement, Stop, Release							Mileage 50								
Plug, wash up on Plug, See Steady Increase in PST, Slow Rate,							FLOAT EQUIPMENT								
Bump Plug at 36 Bbls total							Guide Shoe								
Disp. from 200 # to 500 # PST,							Centralizer								
Shutin, cement did Circ.							Baskets								
							AFU Inserts 1- Baffle Plate - 8 5/8								
							Float Shoe								
							Latch Down - 1- Wooden Cap Plug - 8 5/8								
							EMV 50								
							Service supervisor								
							Pumptrk Charge surface								
							Mileage 50 x 2								
							Tax								
							Discount								
							Total Charge								
Signature <i>Rick Smith</i>															

QUALITY WELL SERVICE, INC.

6289

Federal Tax I.D. # 481187368

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	01-08-15	Sec.	28	Twp.	28s	Range	23w	County	Ford	State	KS	On Location	12:00 AM	Finish	2:15 AM
Lease	Brown		Well No.	2-28		Location Kingsdown, KS 2N, 4W, 1/4N, w into									
Contractor	Vail #					Owner Vincent									
Type Job	Production					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.		5300										
Csg.	4 1/2		Depth		5295										
Tbg. Size			Depth		Charge To Vincent										
Tool			Depth		Street										
Cement Left in Csg.	44		Shoe Joint		44.15										
Meas Line			Displace		82 BBLs 2% KCL										
EQUIPMENT												Cement Amount Ordered			
												225 sx Pro "C" + 5# Kol Seal			
Pumptrk	8	No.	Derek B		Common 225 Pro C										
Bulktrk	9	No.	David B		Poz. Mix										
Bulktrk		No.			Gel. 4										
Pickup		No.	David F Richard M.		Calcium										
JOB SERVICES & REMARKS												Hulls			
Rat Hole 30sx												Salt 24			
Mouse Hole 20sx												Flowseal			
Centralizers												Kol-Seal 1125#			
Baskets												Mud CLR 48 500 gal mud Flush			
D/V or Port Collar												CFL-117 or CD110 CAF 38 CC-1 8gals			
Pipe on Btm, Break Circ, Pump Preflush,												Sand			
Rug Rat & Mouseholes w/ 50sx cement,												Handling 253			
Mix 175sx Cement Blend Pro "C", Stop-												Mileage 50			
washup truck, Release Plug, Start Disp. w/												FLOAT EQUIPMENT			
2% KCL Water, See Steady increase in												Guide Shoe -1- 3/4 4 1/2			
PSI, Slow Rate,												Centralizer -6- 3/4 4 1/2			
Bump Plug at 82 BBLs total Disp.												Baskets			
From 700" to 1200" PSI, Release PSI												AFU Inserts -1- 4 1/2			
Float Did Hold												Float Shoe			
												Latch Down Service Supervisor			
												TRP-1- 4 1/2			
												Lmv 50			
												Pumptrk Charge Long string			
												Mileage 50 x 2			
												Tax			
												Discount			
X Signature [Signature]												Total Charge			



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corp.
155 N. Market Ste. 700
Wichita, KS 67202-1821
ATTN: Tom Dudgeon

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

Brown 2-28

Job Ticket: 59956

DST#: 1

Test Start: 2015.01.01 @ 17:57:22

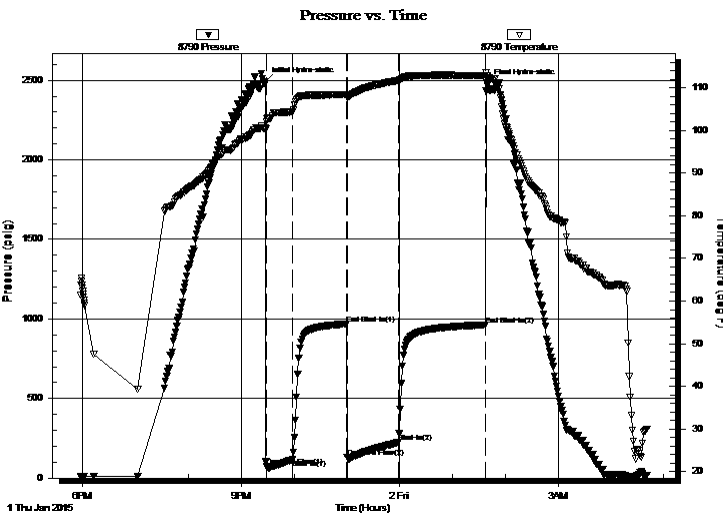
GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 21:28:52
 Time Test Ended: 04:41:22
 Interval: **4975.00 ft (KB) To 5010.00 ft (KB) (TVD)**
 Total Depth: 5010.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 2483.00 ft (KB)
 2473.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Press @ Run Depth: 224.81 psig @ 4976.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.01 End Date: 2015.01.02 Last Calib.: 2015.01.02
 Start Time: 17:57:27 End Time: 04:41:22 Time On Btm: 2015.01.01 @ 21:27:37
 Time Off Btm: 2015.01.02 @ 01:38:52

TEST COMMENT: IF: Strong blow . BOB @ 1min.
 IS: Strong blow . BOB @ 30min. GTS @ 45min. into.
 FF: Strong blow . BOB immed. Gauged Gas.
 FS: Strong blow . BOB throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2491.26	100.51	Initial Hydro-static
2	73.48	102.06	Open To Flow (1)
31	116.26	104.38	Shut-In(1)
92	968.24	108.34	End Shut-In(1)
93	131.87	107.81	Open To Flow (2)
151	224.81	111.70	Shut-In(2)
250	962.59	112.86	End Shut-In(2)
252	2481.48	112.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GMWCO 10% <i>m</i> , 15% <i>w</i> , 30% <i>g</i> , 45% <i>o</i>	1.75
135.00	GMCO 25% <i>o</i> , 35% <i>m</i> , 40% <i>g</i>	1.89
190.00	Clean Oil	2.67

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.00	6.89
Last Gas Rate	0.13	11.00	9.51
Max. Gas Rate	0.13	11.00	9.51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59956

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2015.01.01 @ 17:57:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 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: 9.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	GMWCO 10%m, 15%w, 30%g, 45%o	1.753
135.00	GMCO 25%o, 35%m, 40%g	1.894
190.00	Clean Oil	2.665

Total Length: 450.00 ft

Total Volume: 6.312 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59956

DST#: 1

ATTN: Tom Dudgeon

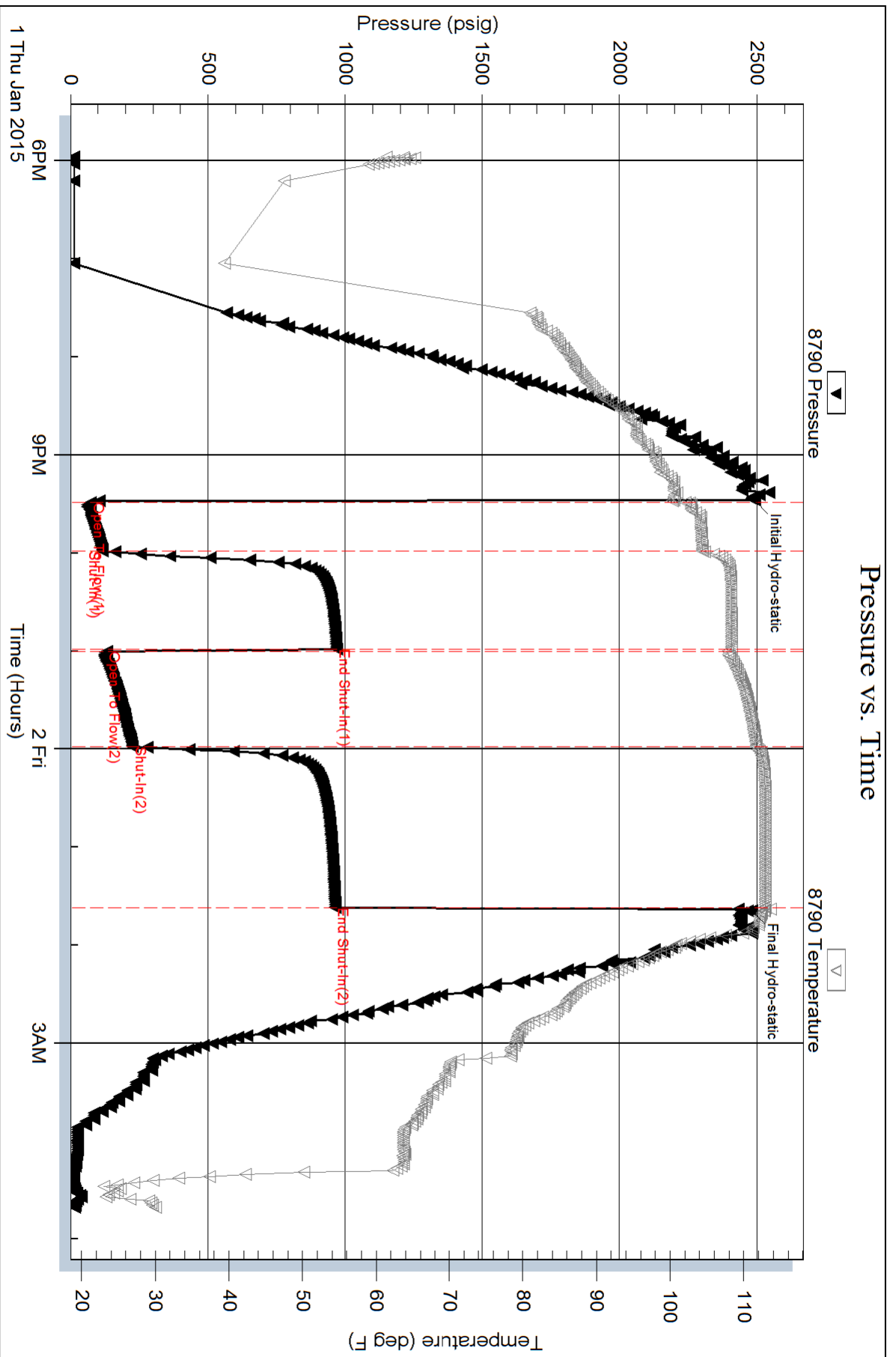
Test Start: 2015.01.01 @ 17:57:22

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	4.00	6.89
2	20	0.13	6.00	7.63
2	30	0.13	8.00	8.38
2	40	0.13	9.00	8.76
2	50	0.13	10.00	9.13
2	60	0.13	11.00	9.51





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.
 155 N. Market Ste. 700
 Wichita, KS 67202-1821
 ATTN: Tom Dudgeon

28-28s-23w. Ford Co. Ks
Brown 2-28
 Job Ticket: 59957 **DST#: 2**
 Test Start: 2015.01.03 @ 00:31:13

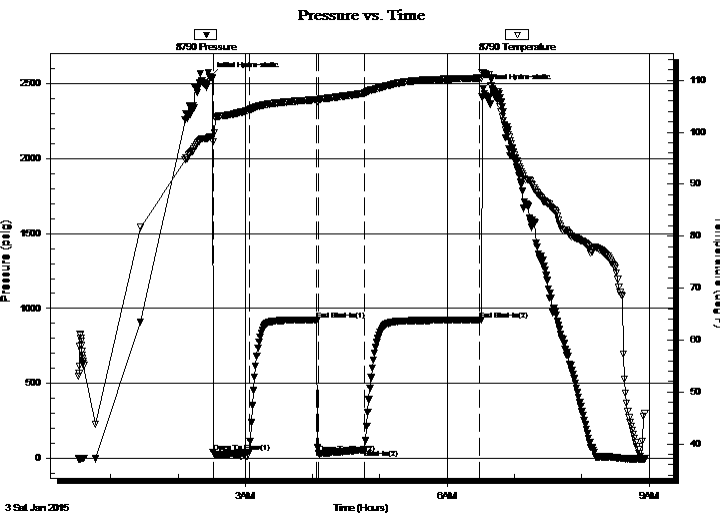
GENERAL INFORMATION:

Formation: **Penn. Lime**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 02:31:13
 Time Test Ended: 08:56:58
 Interval: **5069.00 ft (KB) To 5130.00 ft (KB) (TVD)**
 Total Depth: 5130.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 2483.00 ft (KB)
 2473.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Press @ Run Depth: 56.68 psig @ 5070.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.03 End Date: 2015.01.03 Last Calib.: 2015.01.03
 Start Time: 00:31:18 End Time: 08:56:57 Time On Btm: 2015.01.03 @ 02:28:43
 Time Off Btm: 2015.01.03 @ 06:32:13

TEST COMMENT: IF: Strong blow . BOB @ 1min.
 IS: Strong blow . BOB throughout.
 FF: Strong blow . BOB immed. GTS @ 9min. Guaged gas.
 FS: Strong blow . BOB throughout.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2550.52	99.13	Initial Hydro-static
3	41.00	98.23	Open To Flow (1)
35	39.60	104.19	Shut-In(1)
95	924.48	106.25	End Shut-In(1)
97	31.63	106.15	Open To Flow (2)
138	56.68	107.50	Shut-In(2)
241	923.53	110.41	End Shut-In(2)
244	2468.43	111.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	Drig Mud 100%m	0.49

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.00	8.01
Last Gas Rate	0.13	17.00	11.75
Max. Gas Rate	0.13	17.00	11.75



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59957

DST#: 2

ATTN: Tom Dudgeon

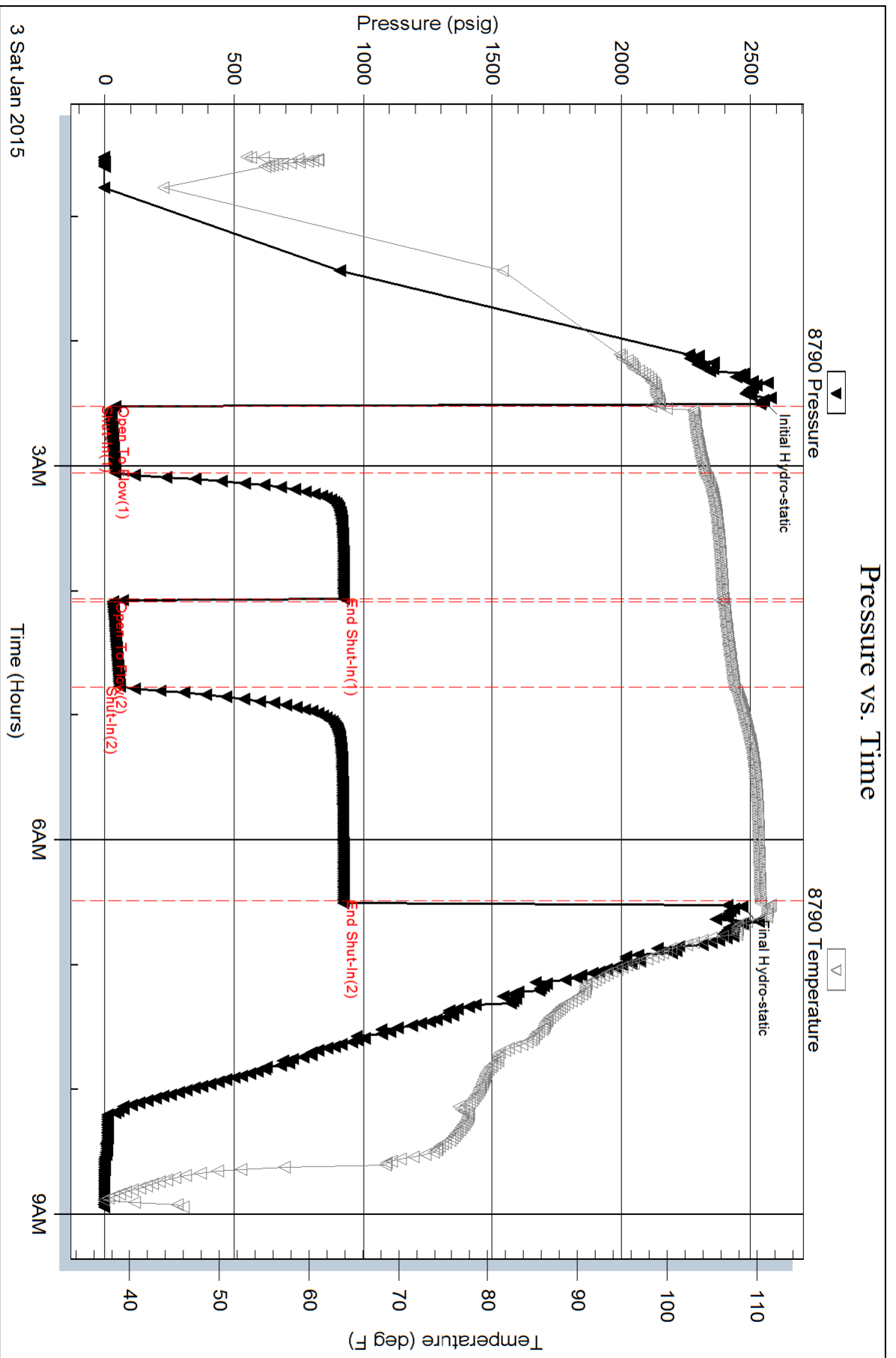
Test Start: 2015.01.03 @ 00:31:13

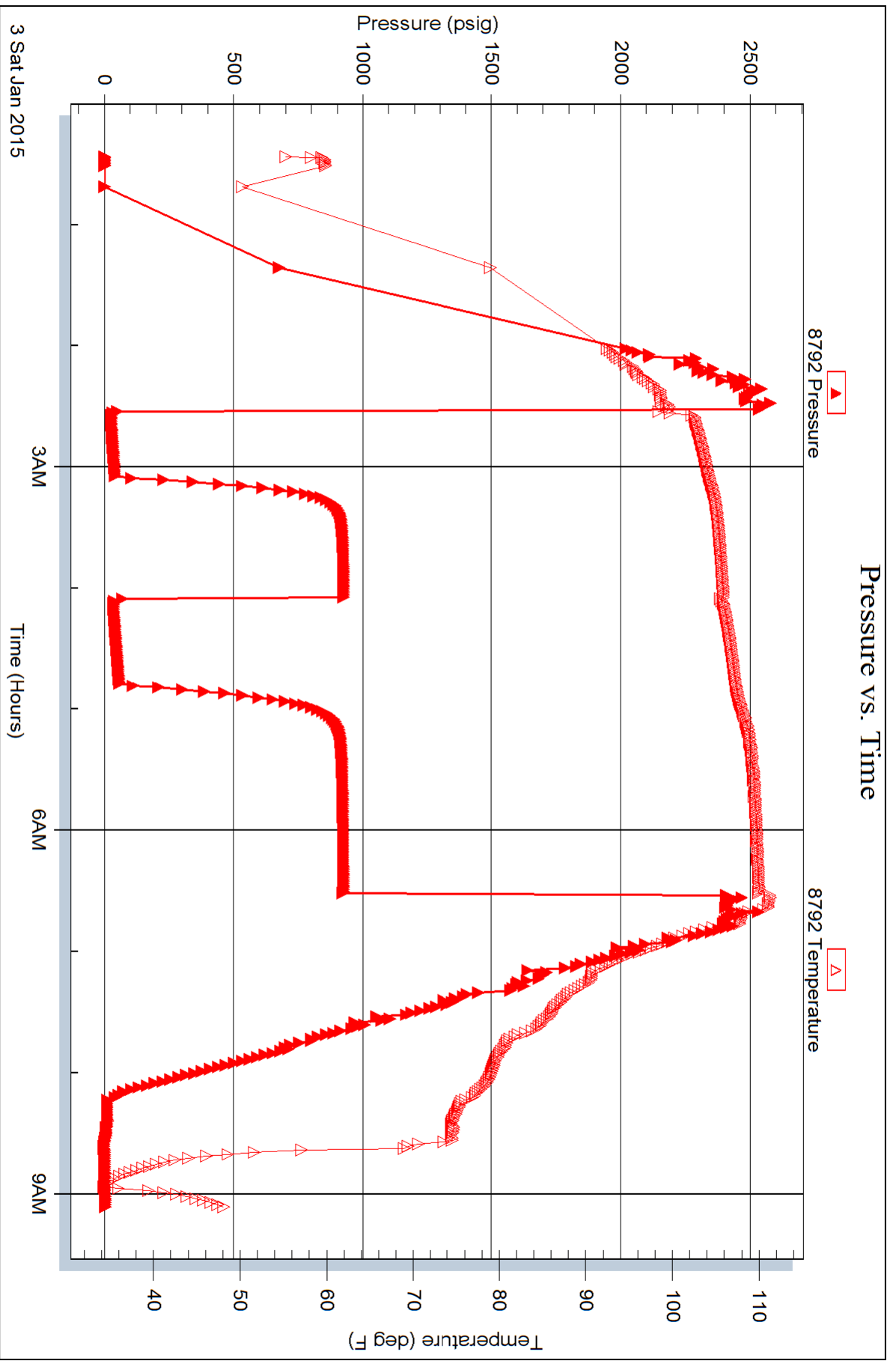
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.13	7.00	8.01
2	20	0.13	11.00	9.51
2	30	0.13	13.00	10.26
2	40	0.13	17.00	11.75
2	45	0.13	17.00	11.75







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.
 155 N. Market Ste. 700
 Wichita, KS 67202-1821
 ATTN: Tom Dudgeon

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

Brown 2-28

Job Ticket: 59958

DST#: 3

Test Start: 2015.01.03 @ 19:12:03

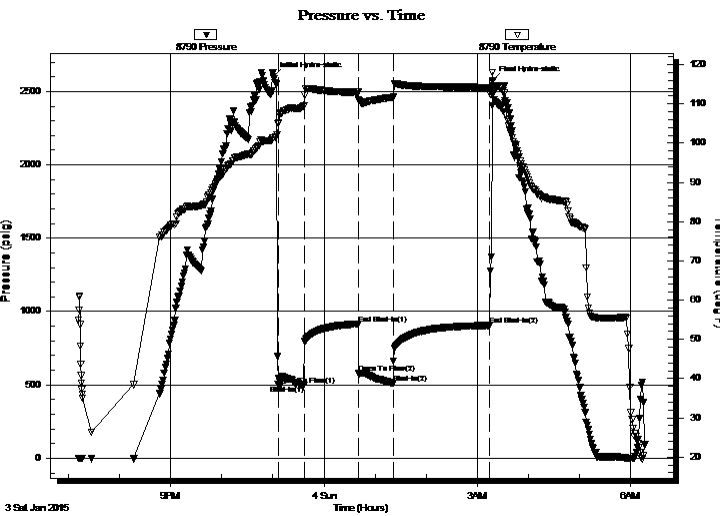
GENERAL INFORMATION:

Formation: **Conglomerate**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 23:06:03
 Time Test Ended: 06:16:18
 Interval: **5128.00 ft (KB) To 5157.00 ft (KB) (TVD)**
 Total Depth: 5157.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Ryan Reynolds
 Unit No: 68
 Reference Elevations: 2483.00 ft (KB)
 2473.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8790

Press @ Run Depth: 512.43 psig @ 5129.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.03 End Date: 2015.01.04 Last Calib.: 2015.01.04
 Start Time: 19:12:08 End Time: 06:16:18 Time On Btm: 2015.01.03 @ 23:00:48
 Time Off Btm: 2015.01.04 @ 03:18:03

TEST COMMENT: IF: Strong blow . BOB immed. GTS @ 3min. Gauged.
 IS: No blow .
 FF: Strong blow . BOB immed. Gauged gas.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2601.97	101.35	Initial Hydro-static
6	500.53	105.01	Open To Flow (1)
36	495.18	109.49	Shut-In(1)
100	915.10	112.98	End Shut-In(1)
100	578.50	111.09	Open To Flow (2)
141	512.43	111.67	Shut-In(2)
254	905.21	114.24	End Shut-In(2)
258	2573.51	113.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig mud 100%M	0.21

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	80.00	2713.89
Last Gas Rate	1.00	90.00	3001.38
Max. Gas Rate	1.00	97.00	3202.62



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59958

DST#: 3

ATTN: Tom Dudgeon

Test Start: 2015.01.03 @ 19:12:03

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:

8400 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8400.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drig mud 100%M	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: no

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59958

DST#: 3

ATTN: Tom Dudgeon

Test Start: 2015.01.03 @ 19:12:03

Gas Rates Information

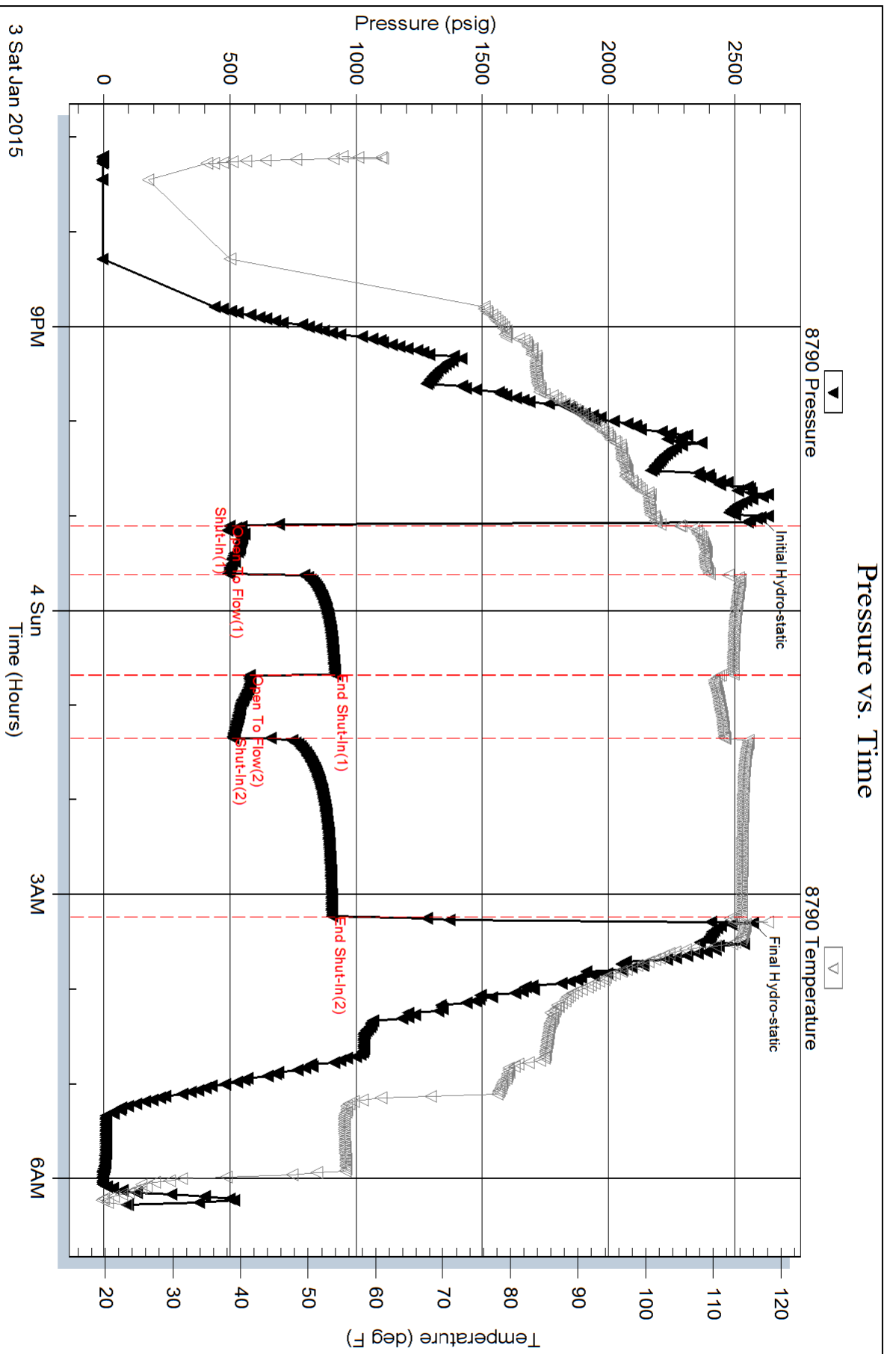
Temperature: 59 (deg F)

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	80.00	2713.89
1	20	1.00	80.00	2713.89
1	30	1.00	80.00	2713.89
2	10	1.00	97.00	3202.62
2	20	1.00	97.00	3202.62
2	30	1.00	95.00	3145.12
2	40	1.00	93.00	3087.62
2	45	1.00	90.00	3001.38





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corp.
155 N. Market Ste. 700
Wichita, KS 67202-1821
ATTN: Tom Dudgeon

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

Brown 2-28

Job Ticket: 59959

DST#: 4

Test Start: 2015.01.04 @ 20:01:23

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 00:02:08

Time Test Ended: 08:12:38

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Reynolds

Unit No: 68

Interval: 5166.00 ft (KB) To 5180.00 ft (KB) (TVD)

Reference Elevations: 2483.00 ft (KB)

Total Depth: 5180.00 ft (KB) (TVD)

2473.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8790

Press@RunDepth: 90.07 psig @ 5167.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.04

End Date: 2015.01.05

Last Calib.: 2015.01.05

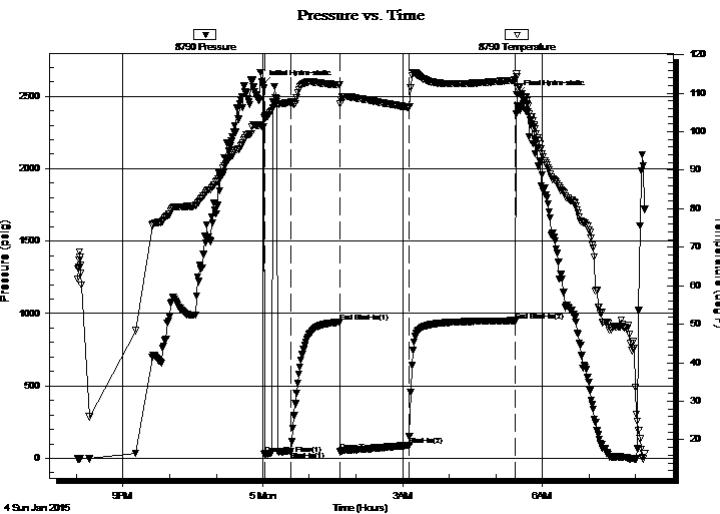
Start Time: 20:01:28

End Time: 08:12:38

Time On Btm: 2015.01.04 @ 23:59:38

Time Off Btm: 2015.01.05 @ 05:27:08

TEST COMMENT: IF: No blow. Flshd 10min. into. Strong blow. BOB @ 15min.
IS: Strong blow. BOB - No blow. @ 55min.
FF: Strong blow. BOB immed. GTS @ 42min. Gauged.
FS: No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2581.30	101.33	Initial Hydro-static
3	27.19	103.65	Open To Flow (1)
37	48.31	107.68	Shut-In(1)
100	940.97	112.25	End Shut-In(1)
100	47.32	107.33	Open To Flow (2)
189	90.07	106.37	Shut-In(2)
326	950.27	113.42	End Shut-In(2)
328	2512.63	114.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	Drig mud 100%m	1.75

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	14.00	10.63
Last Gas Rate	0.13	24.00	14.37
Max. Gas Rate	0.13	24.00	14.37



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59959

DST#: 4

ATTN: Tom Dudgeon

Test Start: 2015.01.04 @ 20:01:23

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:

12400 ppm

Viscosity: 88.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12400.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	Drig mud 100%m	1.753

Total Length: 125.00 ft

Total Volume: 1.753 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59959

DST#: 4

ATTN: Tom Dudgeon

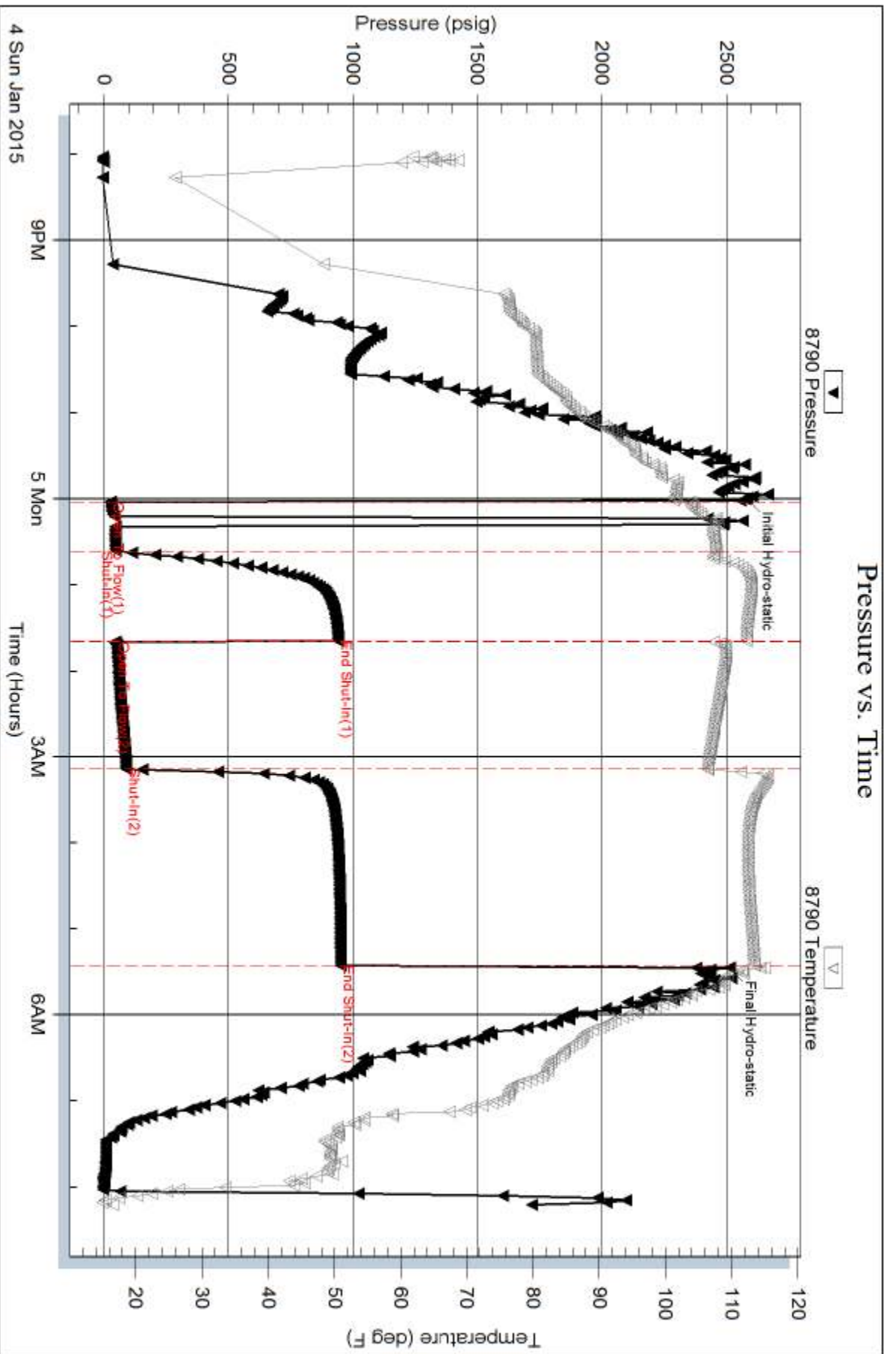
Test Start: 2015.01.04 @ 20:01:23

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	50	0.13	14.00	10.63
2	50	0.13	14.00	10.63
2	60	0.13	18.00	12.13
2	70	0.13	21.00	13.25
2	80	0.13	24.00	14.37





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corp.
155 N. Market Ste. 700
Wichita, KS 67202-1821
ATTN: Tom Dudgeon

28-28s-23w. Ford Co. Ks
Brown 2-28
Job Ticket: 59960 **DST#: 5**
Test Start: 2015.01.05 @ 23:54:15

GENERAL INFORMATION:

Formation: **Miss.**
Deviated: No Whipstock: 0.00 ft (KB)
Time Tool Opened: 02:11:00
Time Test Ended: 08:51:45
Interval: **5182.00 ft (KB) To 5208.00 ft (KB) (TVD)**
Total Depth: 5208.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Ryan Reynolds
Unit No: 68
Reference Elevations: 2483.00 ft (KB)
2473.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8790

Inside

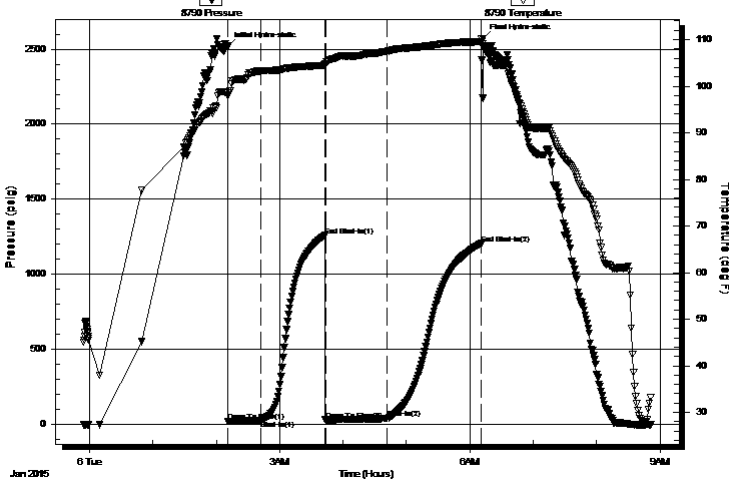
Press@RunDepth: 38.38 psig @ 5183.00 ft (KB)
Start Date: 2015.01.05 End Date: 2015.01.06
Start Time: 23:54:20 End Time: 08:51:45
Capacity: 8000.00 psig
Last Calib.: 2015.01.06
Time On Btm: 2015.01.06 @ 02:10:30
Time Off Btm: 2015.01.06 @ 06:12:45

TEST COMMENT: IF: Weak blow . surf. - 1"
IS: No blow .
FF: Fair blow . surf. - 7"
FS: No blow .

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2519.79	98.49	Initial Hydro-static
1	18.97	97.93	Open To Flow (1)
32	27.03	103.28	Shut-In(1)
93	1258.33	104.49	End Shut-In(1)
93	29.33	104.78	Open To Flow (2)
152	38.38	107.43	Shut-In(2)
241	1204.93	109.54	End Shut-In(2)
243	2571.95	108.15	Final Hydro-static

Pressure vs. Time



Recovery

Length (ft)	Description	Volume (bbl)
60.00	SLI GOCM 1%o, 4%g, 95%m	0.84
0.00	120' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

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

155 N. Market Ste. 700
Wichita, KS 67202-1821

Brown 2-28

Job Ticket: 59960

DST#: 5

ATTN: Tom Dudgeon

Test Start: 2015.01.05 @ 23:54:15

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:

14800 ppm

Viscosity: 74.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 14.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 14800.00 ppm

Filter Cake: 0.06 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	SLI GOCM 1%o, 4%g, 95%m	0.842
0.00	120' GIP	0.000

Total Length: 60.00 ft Total Volume: 0.842 bbl

Num Fluid Samples: 0

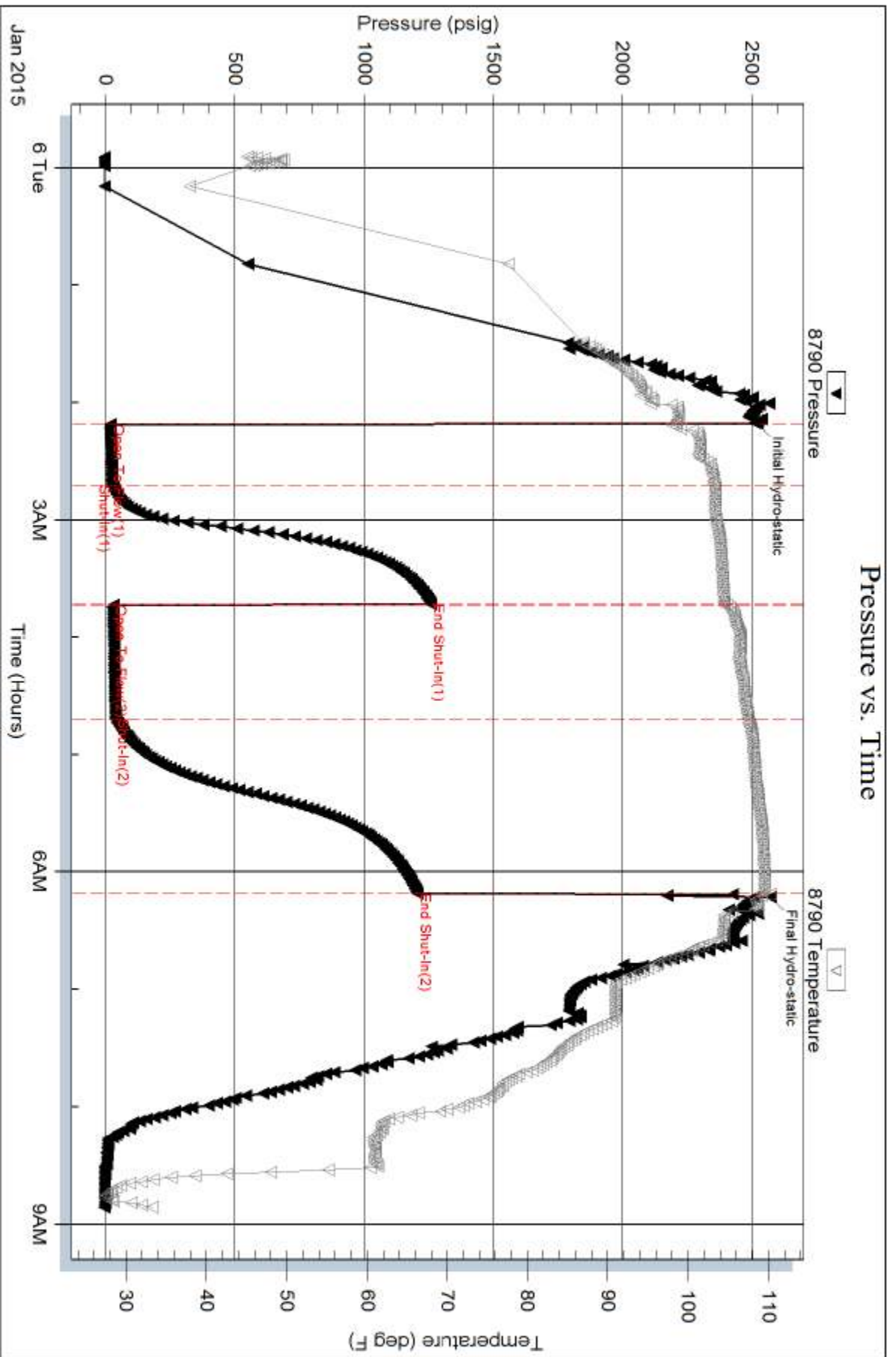
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





Scale 1:240 Imperial

Well Name: Brown 2-28
Surface Location: 28-28S-23W SE SE NW SE
Bottom Location: N/A
API: 15-057-20957-00-00
License Number: 5004
Spud Date: 12/15/2014 Time: 9:15 AM
Region: SW
Drilling Completed: 1/6/2015 Time: 6:53 PM
Surface Coordinates: 1605 FSL & 1625 FEL
Bottom Hole Coordinates:
Ground Elevation: 2473.00ft
K.B. Elevation: 2483.00ft
Logged Interval: 4200.00ft To: 5300.00ft
Total Depth: 5300.00ft
Formation: MISS
Drilling Fluid Type: Chemical Mud

OPERATOR

Company: Vincent Oil Corporation
Address: 155 N. Market St.
Ste. 700
Wichita, KS 67202
Contact Geologist: Dick Jordan
Contact Phone Nbr: 316.262.3573
Well Name: Brown 2-28
Location: 28-28S-23W SE SE NW SE API: 15-057-20957-00-00
Pool: Development Field: Mulberry Creek
State: KANSAS Country: USA

CONTRACTOR

Contractor: Val Energy, Inc.
Rig #: 2
Rig Type: Rotary
Spud Date: 12/15/2014 Time: 9:15 AM
TD Date: 1/6/2015 Time: 6:53 PM
Rig Release: 1/8/2015 Time: 2:15 AM

LOGGED BY

Company: Vincent Oil Corporation
Address: 155 N. Market St.
Ste. 700
Wichita, KS 67202
Phone Nbr: 316.262.3573
Logged By: Geologist Name: Tom Dudgeon

ELEVATIONS

K.B. Elevation: 2483.00ft Ground Elevation: 2473.00ft
K.B. to Ground: 10.00ft

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
Rotary Total Depth	5300.00	5302.00
Log Total Depth	5302.00	5302.00

SURFACE CO-ORDINATES

Well Type:	Vertical	Latitude:	37.5768254
Longitude:	-99.8376192		
N/S Co-ord:	1605 FSL		
E/W Co-ord:	1625 FEL		

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical	1/9/2015	3663.00ft	5300.00ft

OPEN HOLE LOGS

Logging Company:	Nabors Completion _Production Services Co.		
Logging Engineer:	Ian Mabb		
Truck #:	3802		
Logging Date:	1/7/2015	Time Spent:	7
# Logs Run:	4	# Logs Run Successful:	4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5302.00ft	3.00		1
Comp Den/Neu/	4150.00ft	5302.00ft	3.00		1
Micro	4150.00ft	5302.00ft	4.00		2
Sonic	0.00ft	5302.00ft	4.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
1/9/2015	0.00ft	5302.00ft	Logs Ran Successfully

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size	12.25 in				
Hole Size			7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	604 ft	21#	14	1/16/2015 6:00 AM
Int Casing					
Prod Casing	4.5 in	5295 ft	11.6#	120	

CASING SEQUENCE

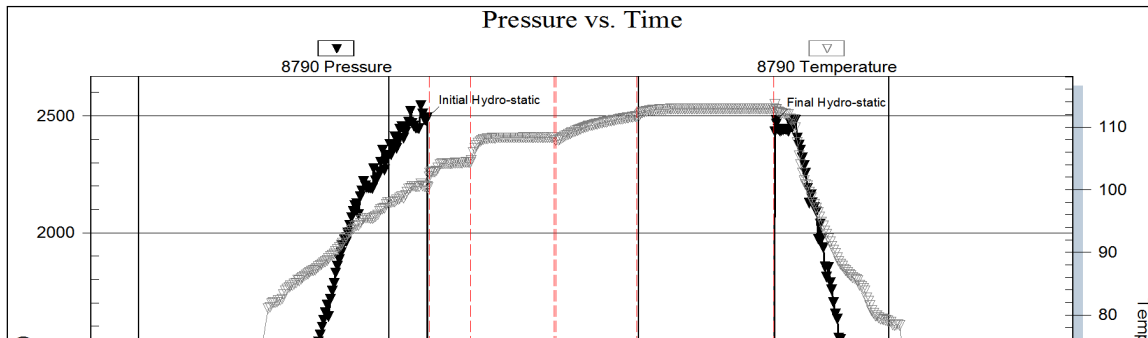
Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	604.00 ft
Production	7.88 in	4.50	5295.00 ft

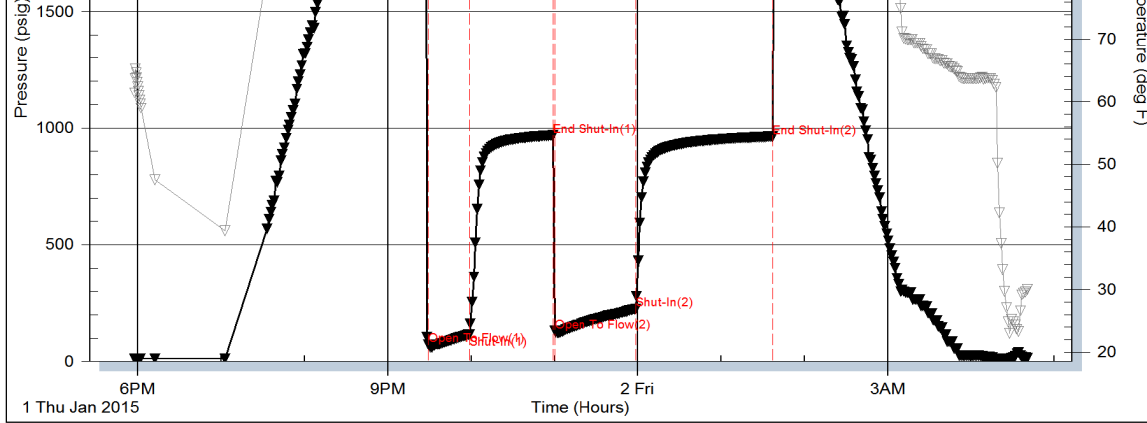
Serial #: 8790

Vincent Oil Corp.

Brown 2-28

DST Test Number: 1





Trilobite Testing, Inc

Ref. No: 59956

Printed: 2015.01.02 @ 06:51:19

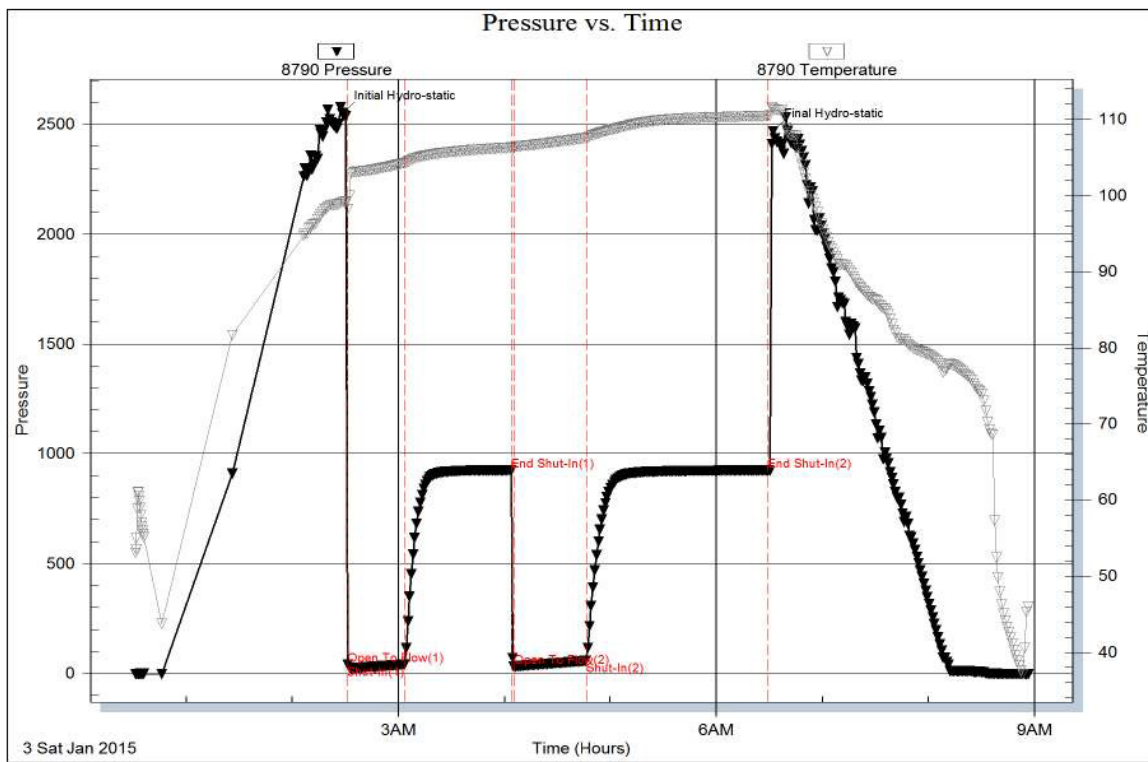
Serial #: 8790

Inside

Vincent Oil Corp.

Brown #2-28

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59957

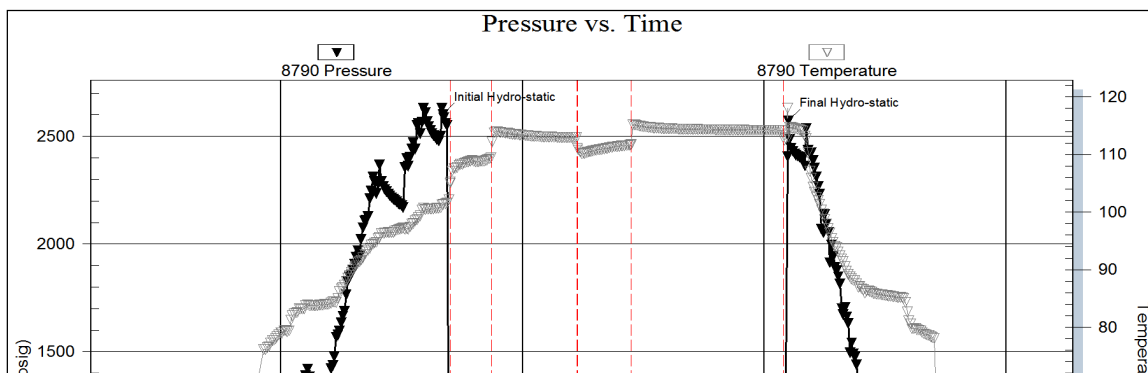
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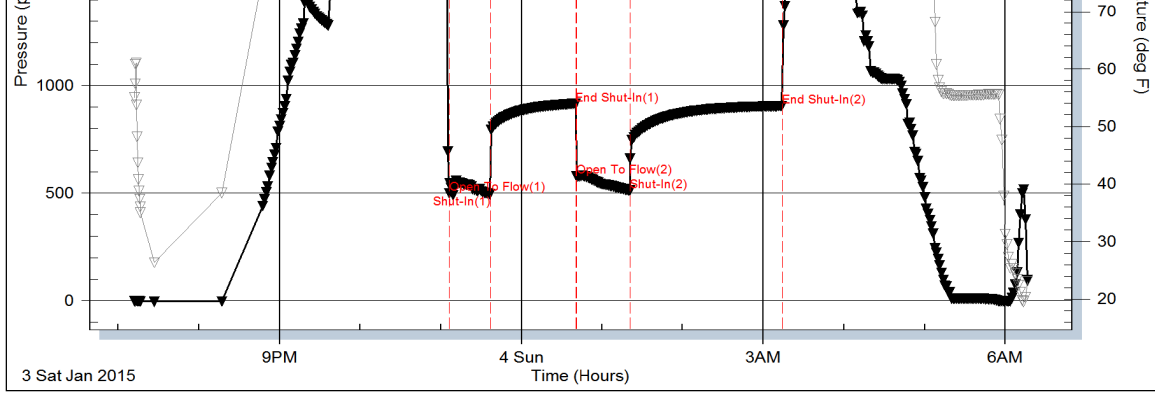
Serial #: 8790

Vincent Oil Corp.

Brown 2-28

DST Test Number: 3





Trilobite Testing, Inc

Ref. No: 59958

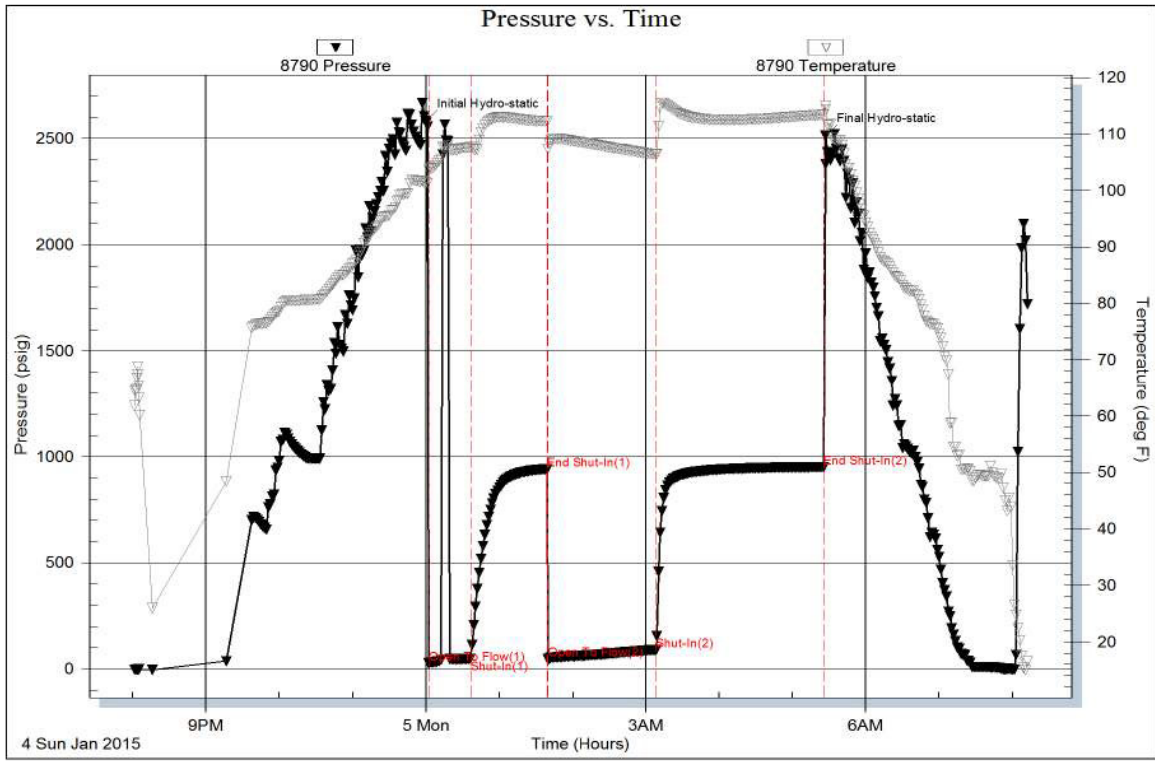
Printed: 2015.01.04 @ 06:43:40

Serial #: 8790

Vincent Oil Corp.

Brown 2-28

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 59959

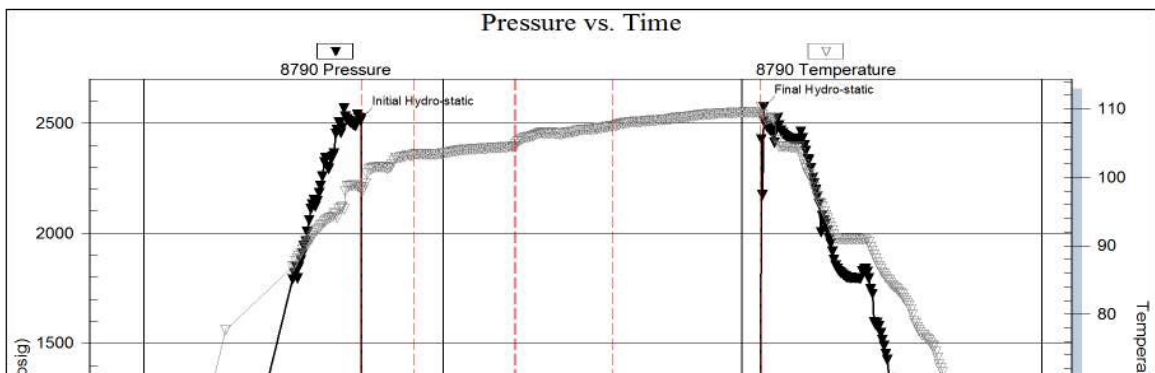
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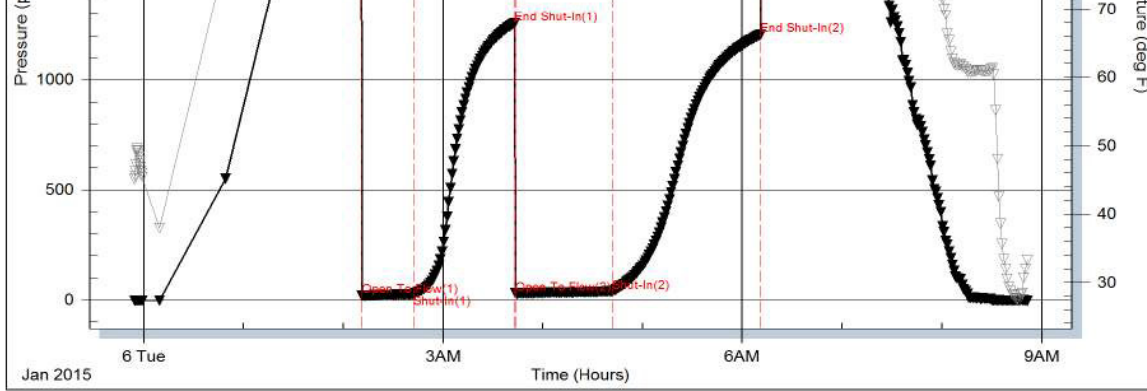
Serial #: 8790

Inside Vincent Oil Corp.

Brown 2-28

DST Test Number: 5



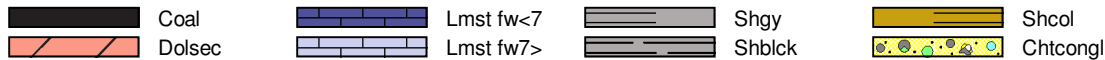


Trilobite Testing, Inc

Ref. No: 59960

Printed: 2015.01.06 @ 09:16:44

ROCK TYPES



ACCESSORIES

MINERAL

- ▲ Chert, dark
- ∠ Dolomitic
- Ferruginous, grains or p
- ∩ Glauconite
- Heavy, dark minerals
- P Pyrite
- Sandy
- Silty
- △ Chert White

FOSSIL

- ◇ Brachiopod
- ∩ Coral
- Crinoids
- F Fossils < 20%
- ∅ Oolite
- Oolites

STRINGER

- ▬ Limestone
- Sandstone
- ▬ Shale

TEXTURE

- C Chalky
- e Earthy

DUNHAM

- MS Mudst
- PS Packst
- WS Wackstone

OTHER SYMBOLS

POROSITY TYPE

- × Inter-crystalline
- ∅ Interoolitic
- V Vuggy
- P Pinpoint
- ∠ Moldic
- O Organic
- F Fracture
- e Earthy
- Fenestral

OIL SHOWS

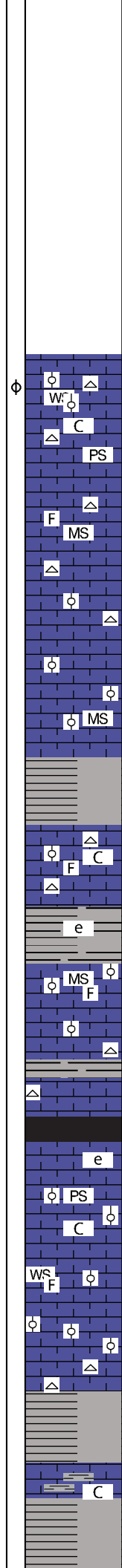
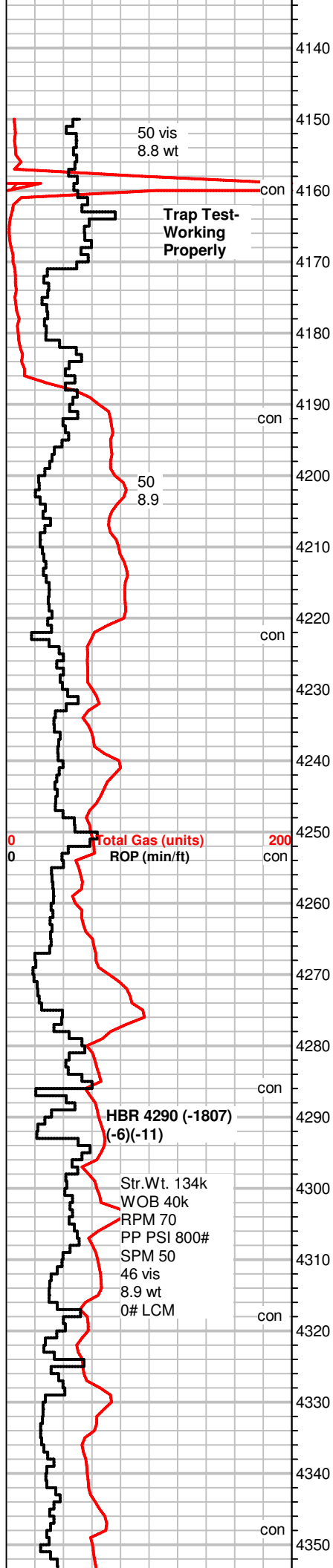
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #01		Depth Intervals	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
Total Gas (units)	ROP (min/ft)						
0	0	4100					
1:240 Imperial		4110					
		4120					
		4130					
					Pipe strap @ 3663'		
					2' long to board		



MS-WS, crm to tan, some lt. gray, mic-xln, hard, f-gr oolitic, fossils, Chert, white,

WS-PS, tan to crm, vf-xln, gritty txt, firm, scatt. chalky pcs, Chert, white

MS, tan to brn, mic-xln, hard to firm, scatt fossils, NS, Chert, white

MS-WS, A.A., fusulinids, Chert, white, fossilif.

SH, gray, blk
MS, crm to lt. tan, vf-xln gritty txt in part, m-gr oolitic pcs scatt.

MS, crm, rare gray pcs, mic-xln, hard, some chalky pcs, fossilif.
SH, gray

MS-WS, crm to brn, some gray, mic-xln, dense, some chalky A.A., Chert, white, gray, fossils, some SH, gray, dk. gray

SH, blk gray, MS, crm to gray, earthy, soft, chalky matrix

MS, crm to gray, mostly mic-xln, some vf-gro oolitic pcs, fossilif.

MS, crm, lt. gray, mic-xln, dense, hard, scatt fossils, blk, specs, NS, Chert, white,

SH, blk, gray

MS-WS, crm to gray, vf-xln, earthy txt, some sandy/gritty looking, hard

WS-PS, off white, crm, f-gr oolitic, chalky matrix

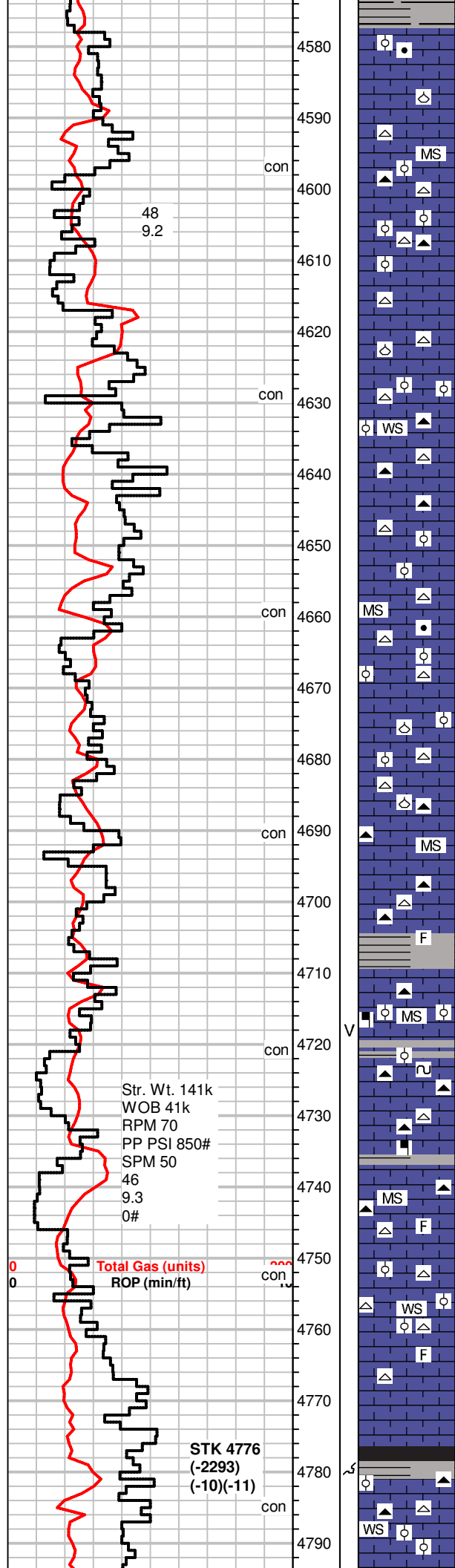
MS-WS, vrm to brn, mic to vf-xln, hard to firm, some chalky pcs, fossilif, Chert, white, fossils
SH, gray, green

MS, crm, mic-xln, v-f gr oolitic to gritty txt, hard, NS

MS, A.A., some green MS, Chert, white, blocky
some SH, gray, green

MS, brn to crm, some green mic-xln, gritty txt, chalky matrix, rare fn-gr oolitic, hard to firm, NS

SH, gray,



MS, lt. brn to gray, mic-xln, dense hard, rare mottled pcs w/ black specs, barren, NS

MS, off white to gray, some crm, mic to crip-xln, dense, fossilif. NS
Chert, tan

MS, gray to brn, mic-xln, mottled pcs scatt., rare f-n gr. oolitic pcs,
Chert, gray, white, micro oolitic
Some SH, gray

MS, crm to lt. gray, vf to mic-xln, firm, dense pcs, some chalky, fn-
gr oolitic, Chert, white, smoky gray
SH, rare blk, gray

MS, crm to tan, mic-xln, dense, fossilif. +35 UGK
Chert, white, weathered

MS-WS, crm to off white, vf-xln, massive txt, firm, mottled pcs
scatt., Chert, blk, white, weathered, micro oolitic
SH, gray, green

MS, crm to tan, chalky to mic-xln, scatt blk specs in tan pcs,
Chert, white, blk.
SH, gray

MS-WS, crm to lt. brn, mic-xln, m-gr oolitic pcs scatt, firm, fossilif.
Chert, white, tan

MS, crm to off white, mic-xln, dense, some WS, gray, mottled, blk
specs, silty, Chert, white, fossilif

MS-WS, A.A., calcite on edges, Chert white, micro oolitic, fossilif.
SH, gray, green

WS, crm to brn, f-xln, dense, fossilif, m-gr oolitic, NS
Chert, white

MS, crm to gray, mic-xln, hard, dense, rare calcite on edge, Chert,
white, blk, fossilif
SH, blk, gray, green

MS, crm to brn, f to mic-xln, hard, dense, fractures, mineral fluor,
NS, Chert, brn, fossilif.

MS, crm to off white, some lt. gray, f-xln, firm to hard, fossil frgmts,
rare f-gr oolitic pcs, Chert, tan
SH, gray

MS, crm, lt. gray, to tan, f-xln, chalky to dense, silty, black specs,
rare glauc, scatt sub oolitic tan pcs, fossilif.
Chert, blk, tan, fossilif., vuggy por., NS

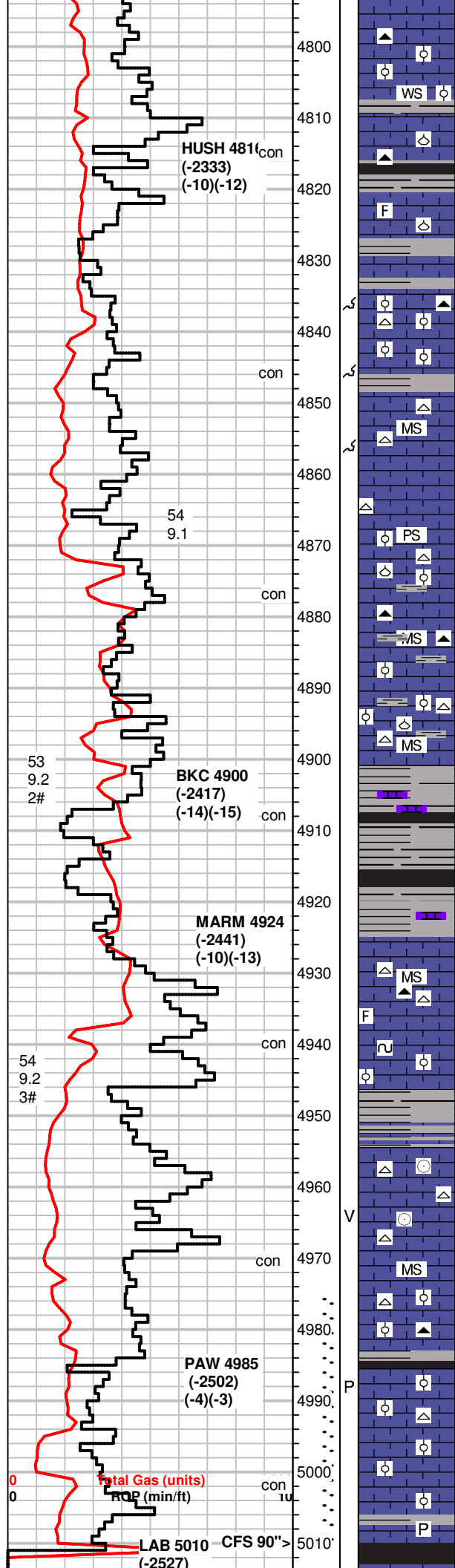
MS, off white to lt. gray, chalky to dense matrix, mic-xln, scatt
fossils, rare mottled pcs, no vis por., Chert, blk
rare SH, gray

MS, A.A., soft to firm pcs, fossilif, Chert, tan, smoky gray

WS, lt. gray to crm, off white, m-gr oolitic, dense, calcite x-tals, rare
mineral fluor, NS, Chert, white, fossilif.
rare SH, gray

SH, gray, green
MS-WS, crm to gray, mic-xln, oomoldic/oolitic m-gr pcs, firm to
hard, dense, Chert, brn

MS-WS, crm to lt. brn, A.A., some chalky pcs, scatt dark f to m-gr
oids in dense matrix, Chert, tan



No Sample

MS-WS, off white, lt. gray to tan, vf-xln, oolitic pcs, m-gr ooids, hard, dense pcs
SH, gray green

MS, lt. gray, mic-xln, dense, scatt oolitic pcs, A.A., rare calcite on edges, Chert, tan, white, fossilif.
some SH, gray, silty

MS, tan to off white, chalky txt in part, firm to soft, scatt fossils, gritty pcs, dull fluor, NS
SH, blk, gray, green

MS, A.A., some lt. gray, mic-xln, dense, rare m-gr oolitic pcs
Chert, white, blocky

MS, crm to lt. gray, mic-xln, firm, dense pcs, rare moldic pcs, calcite
SH, gray

MS, A.A., Chert, white, fossilif.

MS, gray, crm, some brn, mic to vf-xln, shaly, firm to hard, silky luster, some SH, gray

WS-PS, crm, mic-xln dense, m-gr deformed ooids, fossilif pcs, Chert, tan, white, fossilif, spicules

MS, crm to brn, some gray, vf to mic-xln, earthy in part, hard pcs., fossilif., Chert, brn,
SH, gray green

scatt SH, blk, gray, green, WS-PS, crm to gray, mic-xln, oolitic, crinoids, fossilif. dense, Chert, white, brn

MS-WS, crm to gray, f to mic-xln, firm, some pcs sub oolitic, mottled, NS, Chert, white, black
SH, gray

Sh, gray,blk,

SH, blk, gray, green, MS, tan to gray, mic-xln, dense, scatt fossilif pcs, some m-gr oolitic

SH, gray, green
MS, crm to tan, chalky matrix in part, some pcs vf-xln, hard, gritty txt, Chert, tan, white, blk, fossilif.

MS, crm, mic-xln, firm to hard, rare glauc specs, some pcs chalky, rare m-gr oolitic pcs, rare mineral fluor, NS
SH, gray, green

MS, crm to brn, f-xln, dense, scatt mottled pcs, rare fossils, rare Chert, white

MS-WS, A.A., inc in fossilif pcs, some SH, gray, dk. gray

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

MS, crm to brn, gray, A.A., hard dense, sub oolitic in part, Chert, blk, spicules
SH, gray, dk. gray, green, waxy

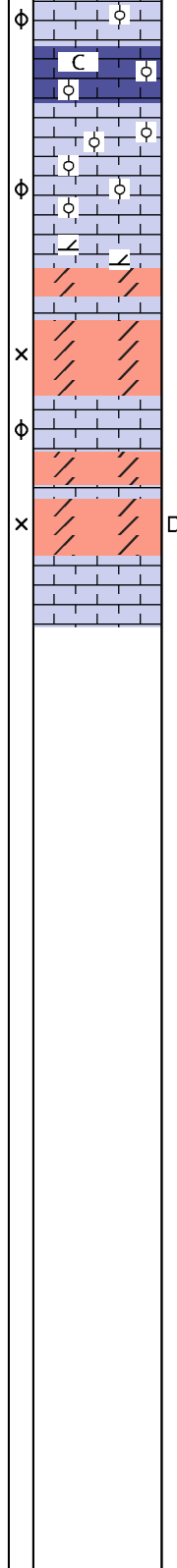
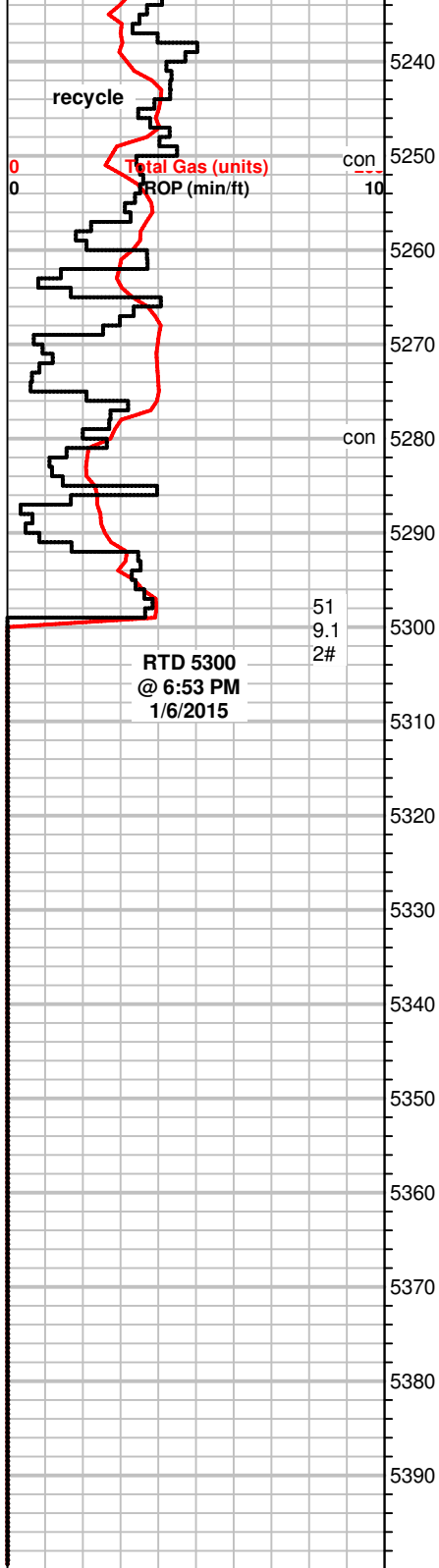
MS, crm to tan, chalky in part, oolitic, f-gr ooids, hard, Chert, white, gray

MS, crm to brn, vf-xln, chalky matrix, f-gr oolitic in part, firm, good odor in 30&60" sample, no free oil, rare bright fluor, rare wormy stn (1 pc), no cut from any samples, lt. edge stn dry.

SH, blk, dk. gray, gas bubbles, pyrite

DST #1 4975-5010
30-60-60-90
SB BOB/1"
BB BOB/30" GTS/45"
SB BOB/immed
Ga. Gas 1/8 in choke
6.9 MCF/10"
7.64 MCF/20"
8.38 MCF/30"
8.76 MCF/40"
9.13 MCF/50"
9.51 MCF/60"
BB SB throughout
Rec: 450' Fluid Total
190' CO
135' GMCO
(40g 25o 35m)
125' GMWCO
(30g 45o 15w 10m)
IH 2491#
IF 71-116#
ISIP 968#
FF 132-225#
FSIP 963#
FH 2481#
BHT 113°F
Gravity 41 API
Rw .32 @ 30°F
CI 56,000 ppm

+15 UGK



fossilif. dull fluor, NS

MS-WS, crm to off white, some lt. tan, mic-xln to f-xln, m-gr suboolitic pcs, firm, chalky matrix on some pcs, Chert, white, NS

MS-WS A.A., NS

MS-PS, crm to tan, scatt off white and brn inc, w/ depth, f-xln sub oolitic, m-gr ooids, chalky in part, hard, rare Chert, white scatt limey Dolo, brn, m-xln, sucrosic to sandy, mineral fluor, no stn, no cut, no odor

Dolo, crm to brn, f-xln, fn sucrosic txt, firm, mineral fluor, NS

WS-PS, tan to lt. brn, f-xln, m-gr oolitic, firm to hard, scatt chalky pcs, scatt tan pcs, dense, rare Chert, white

Dolo, gray to brn, f-sugary sucrosic txt, firm to soft, rare dense pcs, dead wormy stn, mineral fluor, no cut, no odor, NS

WS-PS, scatt MS, brn to tan, f-xln, dense, hard, m-gr oolitic to sub oolitic in part, chalky pcs common, Chert, white

DST #4 5166-5180
30-60-90-120
NB flush tool @ 10", SB BOB/15"
BB SB BOB, NB/55"
BOB/immed GTS/42"
Gauged 1/8" choke
10.63 MCF/50"
12.13 MCF/60"
13.25 MCF/70"
14.37 MCF/80"
15.50 MCF/90"
NBB
Rec: 125' MUD
IH 2581#
IF 27-48#
ISIP 941#
FF 47-90#
FSIP 950#
FH 2513#
Temp 114°F

DST #5 5182-5208
30-60-60-90
WB surf-1"
NBB
FB surf-7"
NBB
Rec: 120' GIP
60' SGOCM (4g, 1o, 95m)
IH 2520#
IF 19-27#
ISIP 1258#
FF 29-38#
FSIP 1205#
FH 2572#
Temp 109°F