



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1230606
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: _____

1230606

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Marfam 3-32
Doc ID	1230606

All Electric Logs Run

Dual Induction
Density -Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Marfam 3-32
Doc ID	1230606

Tops

Name	Top	Datum
Heebner Shale	4391	(-1806)
Brown Limestone	4527	(-1942)
Lansing	4538	(-1953)
Stark Shale	4888	(-2303)
Pawnee	5117	(-2532)
Cherokee Shale	5164	(-2579)
Base Penn Limestone	5275	(-2690)
Mississippian	5298	(-2713)
RTD	5467	(-2882)

QUALITY WELL SERVICE, INC.

6158

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	07-08-14	Sec.	32	Twp.	29S	Range	24W	County	Ford	State	KS	On Location	12 noon	Finish	2:00 PM
Lease	Marfam	Well No.	3-32			Location Bloom, KS, 3 1/2 w. 4th									
Contractor	Duke #1				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. 649'												
Csg.	8 5/8		Depth 649'												
Tbg. Size			Depth												
Tool			Street												
Cement Left in Csg.	42'		Shoe Joint 42.15												
Meas Line			Displace 29 BBls Fresh												
EQUIPMENT										Cement Amount Ordered 125sx MDC + 1/4" Flowseal & 125sx class A + 3%cc + 2%gel + 1/4" Flowseal					
Pumptrk	8	No.	David F		Common	125									
Bulktrk	10	No.	David B		Rez. MIX	MDC 125									
Bulktrk	7	No.	Mike B		Gel.	11									
Pickup		No.			Calcium	10									
JOB SERVICES & REMARKS										Hulls					
Rat Hole					Salt										
Mouse Hole					Flowseal 66.25										
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar	Ran 15. its 8 5/8 csg				CFL-117 or CD110 CAF 38										
Pipe on BHM, Break Circ., Pump Spacer					Sand										
Mix Light Weight Cement, Mix tail Cement					Handling 271										
Stop Pump, Release Plug, Start Disp					Mileage 50										
Fresh H ₂ O, Wash up on Plug, See Steady increase in PSI, Slow Rate, Bump Plug at 29 BBls total Disp., Shot in, Cement Did Circ.					FLOAT EQUIPMENT										
				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts - Baffle Plate											
				Float Shoe											
				Latched Down Service Supervisor											
				Wooden Cap Plug											
				LMV 50											
				Pumptrk Charge Surface											
				Mileage 50x 2											
										Tax					
										Discount					
										Total Charge					
X Signature Mike Stahly															

QUALITY WELL SERVICE, INC.

6189

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	07-19-14	Sec.	32	Twp.	29s	Range	24w	County	Ford	State	KS	On Location	9:00 AM	Finish	2:00 PM	
Lease	MarFam	Well No.	3-32			Location Bloom, KS, 3 1/2 mi s/into										
Contractor	Duke #1							Owner	Vincent							
Type Job	Rotary Plug TA							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.		5467'		Charge To Vincent									
Csg.	8 5/8		Depth		648'		Street									
Tbg. Size	4 1/2 Drill Pipe		Depth		1590'		City									
Tool			Depth				State									
Cement Left in Csg.			Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.									
Meas Line			Displace		Fresh H ₂ O		Cement Amount Ordered 170sx 60:40:4%gel + 14CF									

EQUIPMENT

Pumptrk	8	No.	David B.	Common	105
Bulktrk	7	No.	David F.	Poz. Mix	65
Bulktrk		No.		Gel.	6
Pickup		No.		Calcium	

JOB SERVICES & REMARKS

Rat Hole	30sx	Hulls	
Mouse Hole	20sx	Salt	
Centralizers		Flowseal	42.50
Baskets		Kol-Seal	
D/V or Port Collar		Mud CLR 48	
Drill Pipe at 1590' Load hole, Pump		CFL-117 or CD110 CAF 38	
Fresh Spacers, Mix 50sx cement, 0!sp.w/		Sand	
19 BBLs water,		Handling	176
		Mileage	50

FLOAT EQUIPMENT

Drill Pipe at 680' Load hole, Pump		Guide Shoe	
Spacer, Mix 50sx, Disp. w/ 6 1/2 BBLs water		Centralizer	
Pipe at 60' Load hole, mix 20sx		Baskets	
Cement Did Line,		AFU Inserts	
Plug Rat & Mouseholes w/ 50sx		Float Shoe	
		Latch Down	
		LMV	50
		Service Supervisor	
		Pumptrk Charge	14-Rotary Plug
		Mileage	50 x 2

		Tax	
		Discount	
		Total Charge	
X Signature	Mike Rodkey		



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market STE 700
Wichita, Ks. 67202
ATTN: Jim Hall

32-29s-24w Ford Co., Ks.

Marfam #3-32

Job Ticket: 54199

DST#: 1

Test Start: 2014.07.15 @ 16:25:34

GENERAL INFORMATION:

Formation: **Marrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 18:54:19

Time Test Ended: 00:37:49

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 5270.00 ft (KB) To 5332.00 ft (KB) (TVD)

Reference Elevations: 2585.00 ft (KB)

Total Depth: 5332.00 ft (KB) (TVD)

2573.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6773 Outside

Press@RunDepth: 192.77 psig @ 5271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.15

End Date:

2014.07.16

Last Calib.:

2014.07.16

Start Time:

16:25:39

End Time:

00:37:48

Time On Btm:

2014.07.15 @ 18:51:19

Time Off Btm:

2014.07.15 @ 21:42:19

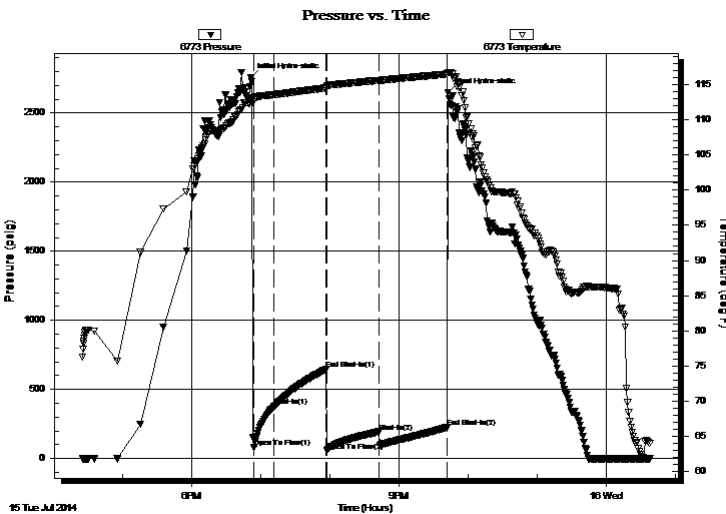
TEST COMMENT: IF: Weak blow . Surf., - 1/4" Died in 13 mins. Shut in after 19 mins.

IS: No blow .

FF: Weak blow . Surf., - 3" in 2 mins. Died back to 1 3/4", in 18 mins. Down - 1/2", in 45 mins.

FS: No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2753.69	112.83	Initial Hydro-static
3	80.77	112.57	Open To Flow (1)
21	377.91	113.56	Shut-In(1)
66	644.73	114.53	End Shut-In(1)
66	55.89	114.76	Open To Flow (2)
112	192.77	115.60	Shut-In(2)
170	223.54	116.47	End Shut-In(2)
171	2646.21	116.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig Mud 100% m	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

32-29s-24w Ford Co., Ks.

155 N. Market STE 700
Wichita, Ks. 67202

Marfam #3-32

Job Ticket: 54199

DST#: 1

ATTN: Jim Hall

Test Start: 2014.07.15 @ 16:25:34

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:

7400 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.20 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

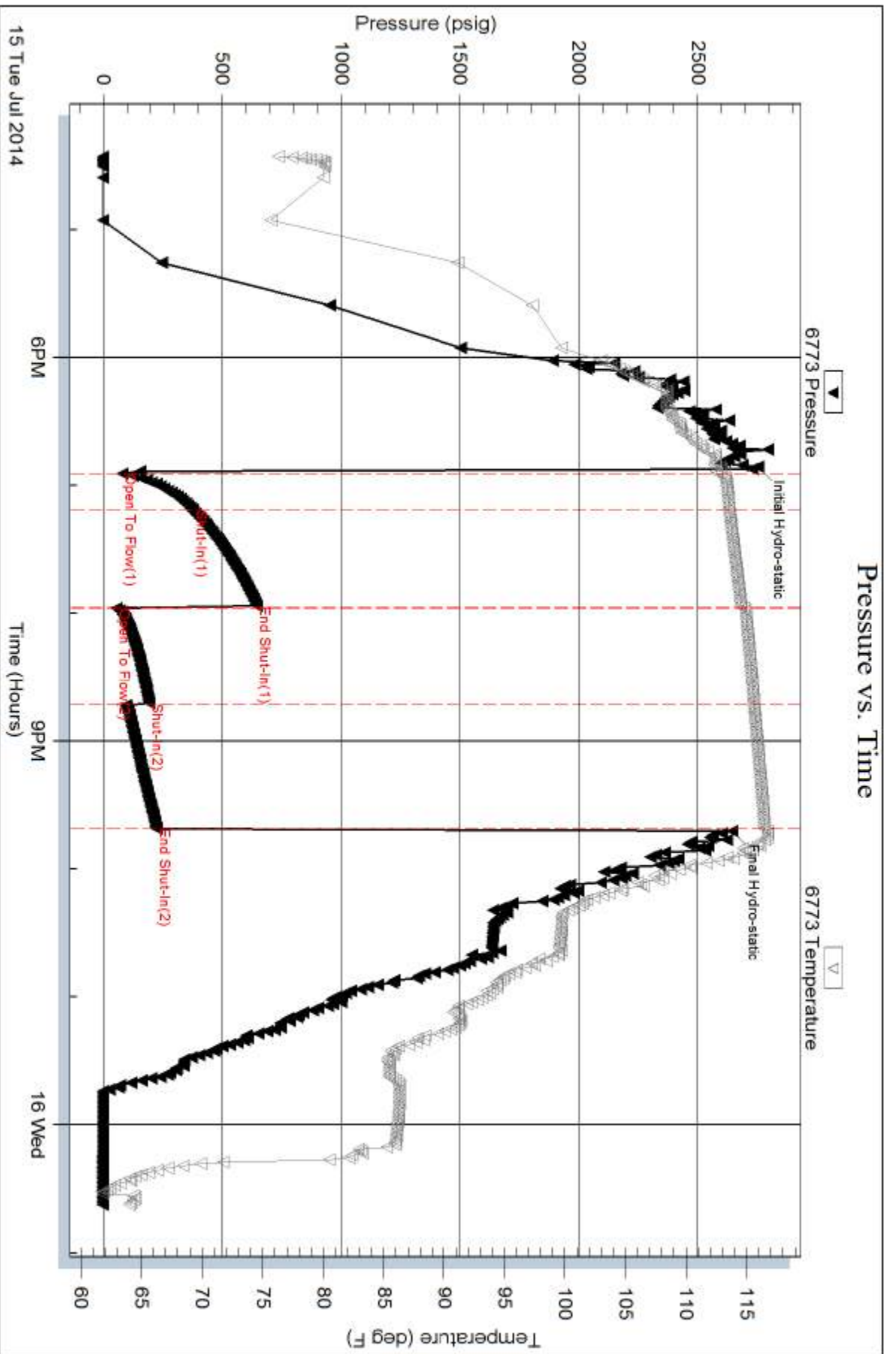
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market STE 700
Wichita, Ks. 67202
ATTN: Jim Hall

32-29s-24w Ford Co., Ks.

Marfam #3-32

Job Ticket: 54200

DST#: 2

Test Start: 2014.07.16 @ 13:33:35

GENERAL INFORMATION:

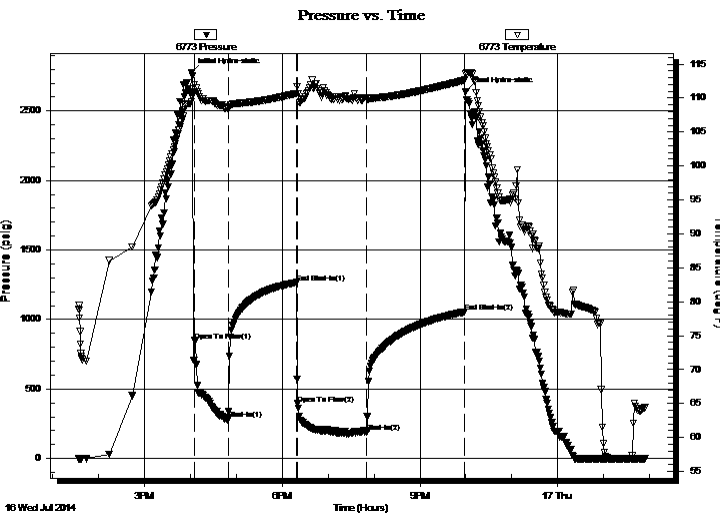
Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:05:20
 Time Test Ended: 01:54:05
 Interval: **5268.00 ft (KB) To 5372.00 ft (KB) (TVD)**
 Total Depth: 5372.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2585.00 ft (KB)
 2573.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6773

Outside

Press @ Run Depth: 188.98 psig @ 5269.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.16 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 13:33:40 End Time: 01:54:05 Time On Btm: 2014.07.16 @ 16:01:20
 Time Off Btm: 2014.07.16 @ 21:59:50

TEST COMMENT: IF: Strong blow . B.O.B., in 1 min. G.T.S. in 15 mins. Gauged gas see gas report.
 IS: No blow . 20 mins bleed off.
 FF: Strong blow . B.O.B. immediate. G.T.S. immediate. Gauged gas see gas report.
 FSI: Weak blow . 20 mins bleed off. Surf., - only. Surf. blow at 53 mins in FSI.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2777.69	109.44	Initial Hydro-static
4	848.48	112.02	Open To Flow (1)
48	286.12	108.47	Shut-In(1)
138	1266.17	110.67	End Shut-In(1)
139	394.29	111.72	Open To Flow (2)
229	188.98	109.97	Shut-In(2)
357	1053.89	112.61	End Shut-In(2)
359	2640.34	113.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM 12%o 28%g 60%m	0.87
62.00	GOCM 5%o 20%g 75%m	0.87
62.00	GOCM 4%o 15%g 81%m	0.87
62.00	GOCM 1%o 34%m 65%g	0.87
62.00	GCM 2%g 98% m w / trc oil	0.87
0.00	4954' G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	11.00	730.22
Last Gas Rate	0.50	21.00	238.80
Max. Gas Rate	0.75	33.00	740.38



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

32-29s-24w Ford Co., Ks.

155 N. Market STE 700
Wichita, Ks. 67202

Marfam #3-32

Job Ticket: 54200

DST#: 2

ATTN: Jim Hall

Test Start: 2014.07.16 @ 13:33:35

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:

7400 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOCM 12%o 28%g 60%m	0.870
62.00	GOCM 5%o 20%g 75%m	0.870
62.00	GOCM 4%o 15%g 81%m	0.870
62.00	GOCM 1%o 34%m 65%g	0.870
62.00	GCM 2%g 98% m w / trc oil	0.870
0.00	4954' G.I.P. 100%g	0.000

Total Length: 310.00 ft

Total Volume: 4.350 bbl

Num Fluid Samples: 2

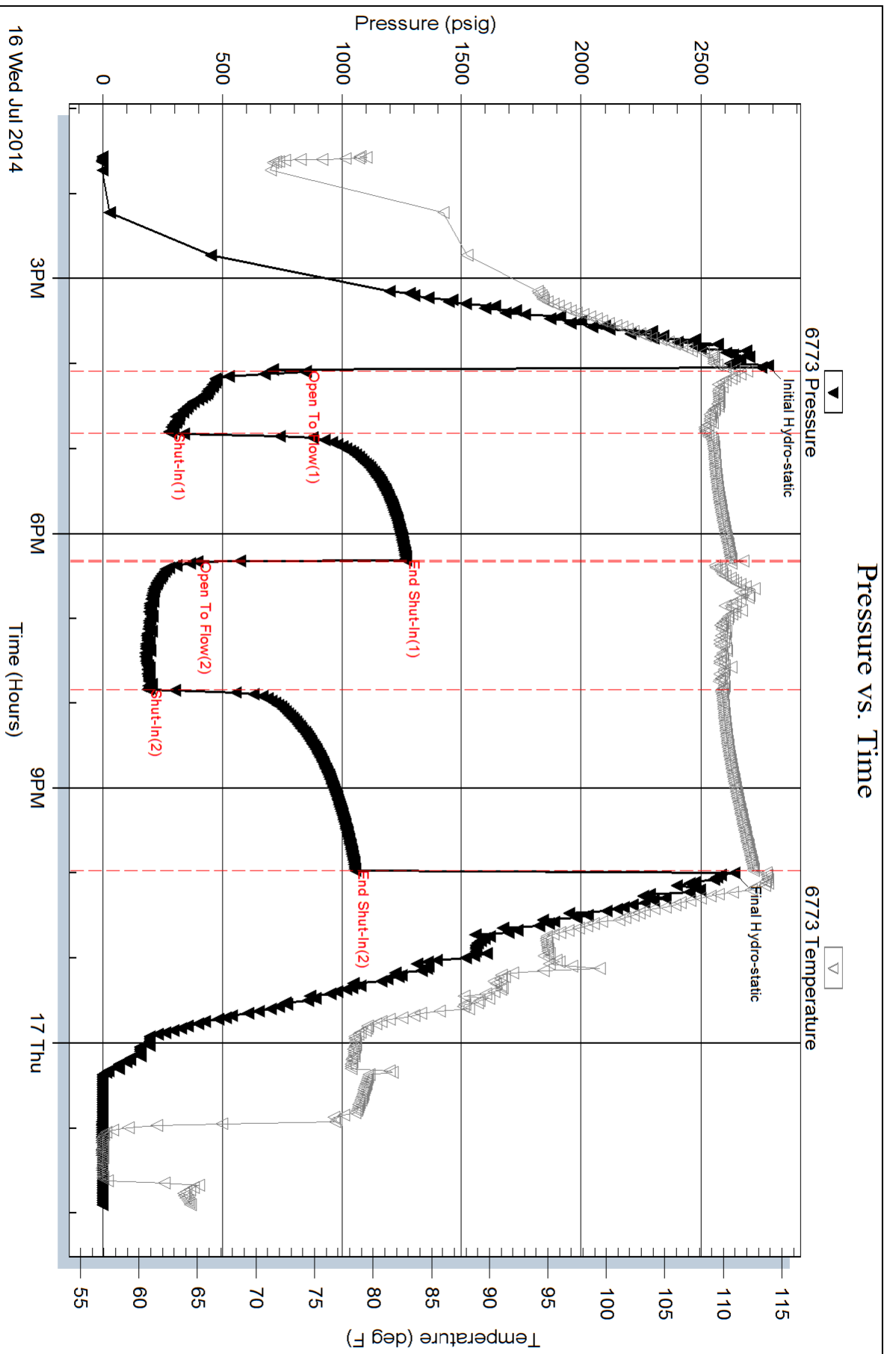
Num Gas Bombs: 1

Serial #: MAS PRATT

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



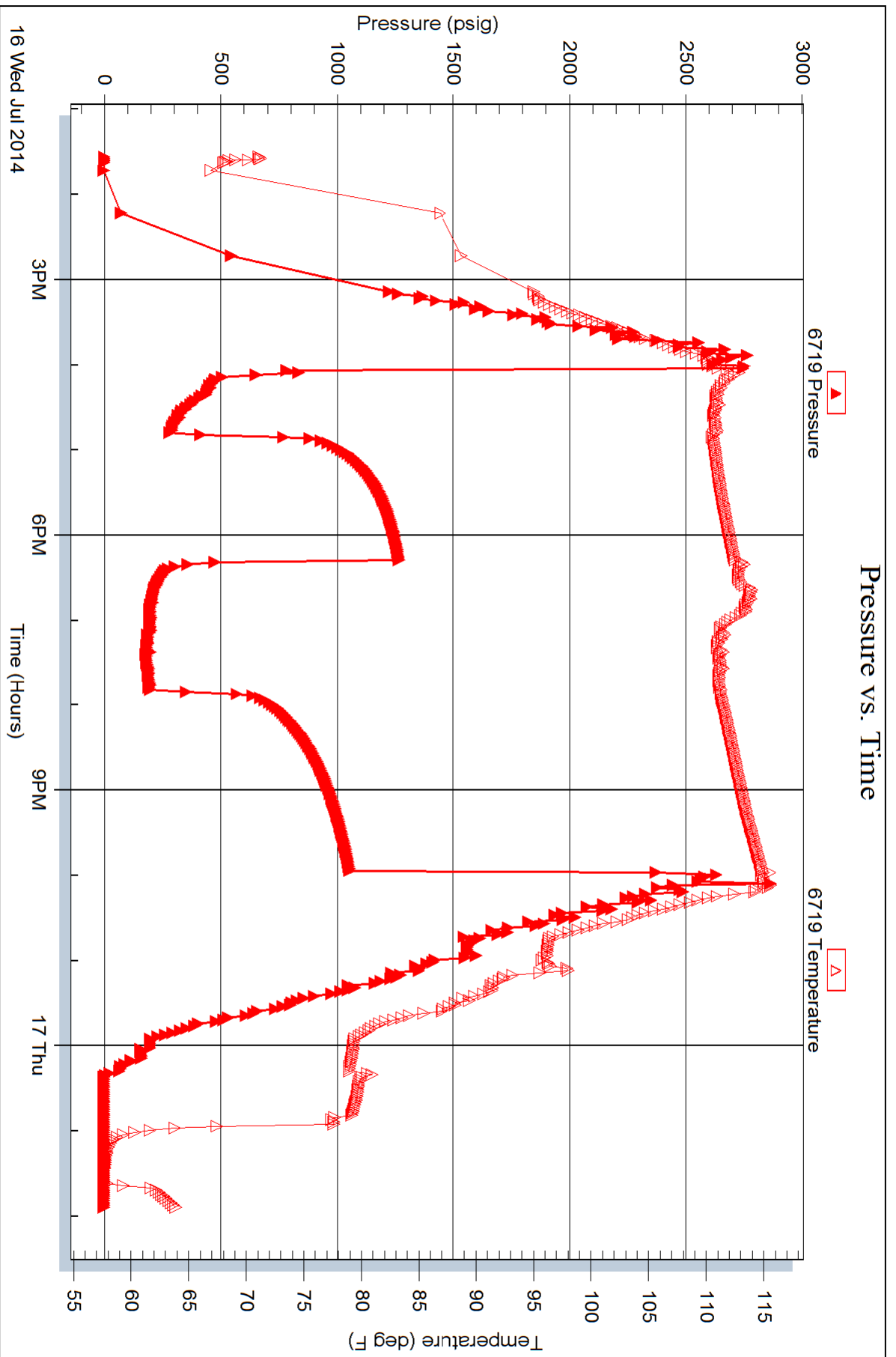
Serial #: 6719

Inside

Vincent Oil Corporation

Marfan#3-32

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market STE 700
Wichita, Ks. 67202
ATTN: Jim Hall

32-29s-24w Ford Co., Ks.

Marfam #3-32

Job Ticket: 54126

DST#: 3

Test Start: 2014.07.17 @ 03:23:07

GENERAL INFORMATION:

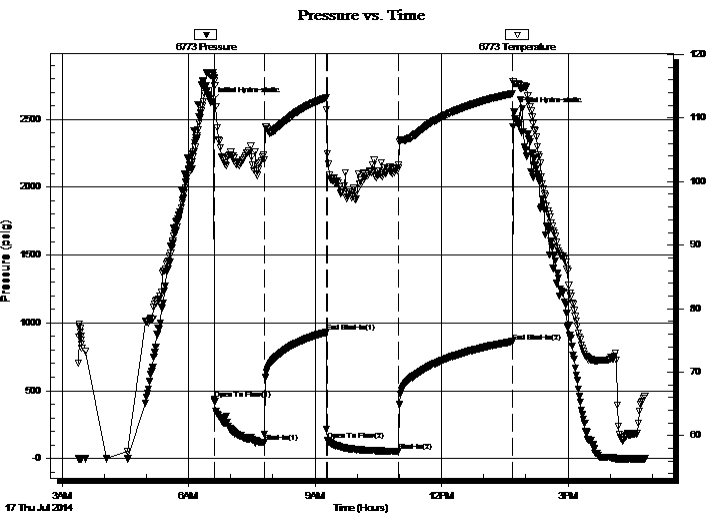
Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 06:36:52
 Time Test Ended: 16:49:52
 Interval: **5333.00 ft (KB) To 5372.00 ft (KB) (TVD)**
 Total Depth: 5332.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2585.00 ft (KB)
 2573.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6773

Outside

Press @ Run Depth: 53.48 psig @ 5334.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17
 Start Time: 03:23:12 End Time: 16:49:52 Time On Btm: 2014.07.17 @ 06:32:52
 Time Off Btm: 2014.07.17 @ 13:43:22

TEST COMMENT: IF: Strong blow . B.O.B. in 20 secs. G.T.S. in 16 mins. Gauged gas see gas report.
 IS: Weak blow . Surf., only. Bleed off in 15 mins. Surf., blow in 23 mins.
 FF: Strong blow . B.O.B. immediate. G.T.S. immediate. Gauged gas see gas report.
 FS: Weak blow . Surf., only. Bleed off in 15 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2630.14	116.66	Initial Hydro-static
4	437.16	115.83	Open To Flow (1)
75	118.05	103.48	Shut-In(1)
163	930.46	113.21	End Shut-In(1)
165	133.75	104.41	Open To Flow (2)
266	53.48	102.09	Shut-In(2)
429	862.08	113.85	End Shut-In(2)
431	2553.97	115.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	GOWCM 5%w 5%w 28%g 62%o	0.43
31.00	GOWCM 3%w 5%w 25%g 67%o	0.43
56.00	GOWCM 2%g 3%w 35%o 60%w	0.79

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	51.00	1021.54
Last Gas Rate	0.50	7.00	144.36
Max. Gas Rate	0.75	51.00	1021.54



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

32-29s-24w Ford Co., Ks.

155 N. Market STE 700
Wichita, Ks. 67202

Marfam #3-32

Job Ticket: 54126

DST#: 3

ATTN: Jim Hall

Test Start: 2014.07.17 @ 03:23:07

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:

7400 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7400.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
31.00	GOWCM 5% <i>m</i> 5% <i>w</i> 28% <i>g</i> 62% <i>o</i>	0.435
31.00	GOWCM 3% <i>w</i> 5% <i>m</i> 25% <i>g</i> 67% <i>o</i>	0.435
56.00	GOWCM 2% <i>g</i> 3% <i>w</i> 35% <i>o</i> 60% <i>m</i>	0.786

Total Length: 118.00 ft

Total Volume: 1.656 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 Corporation

32-29s-24w Ford Co., Ks.

155 N. Market STE 700
Wichita, Ks. 67202

Marfam #3-32

Job Ticket: 54126

DST#: 3

ATTN: Jim Hall

Test Start: 2014.07.17 @ 03:23:07

Gas Rates Information

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

Gas Rates Table

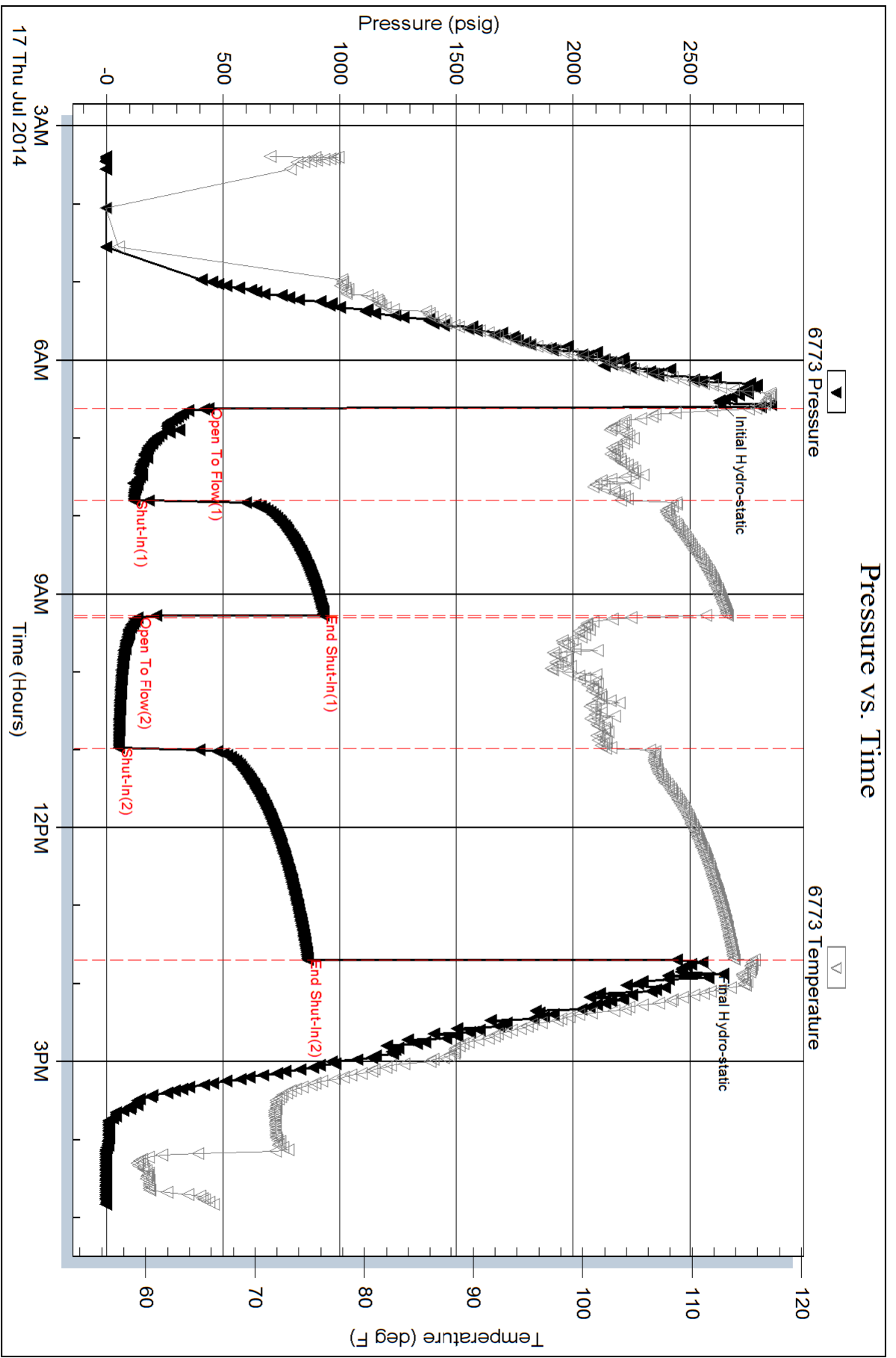
Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.75	51.00	1021.54
1	30	0.75	21.00	552.94
1	40	0.75	8.00	349.88
1	50	0.50	20.00	232.05
1	60	0.50	19.00	225.31
1	70	0.50	17.00	211.82
2	10	0.50	34.00	326.49
2	20	0.50	28.00	286.02
2	30	0.50	20.00	232.05
2	40	0.50	15.00	198.32
2	50	0.50	12.00	178.09
2	60	0.50	11.00	171.34
2	70	0.50	10.00	164.59
2	80	0.50	9.00	157.85
2	90	0.50	8.00	151.10
2	100	0.50	7.00	144.36

Serial #: 6773

Outside Vincent Oil Corporation

Marfan#3-32

DST Test Number: 3





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market STE 700
Wichita, Ks. 67202
ATTN: Jim Hall

32-29s-24w Ford Co., Ks.

Marfam #3-32

Job Ticket: 56552

DST#: 4

Test Start: 2014.07.18 @ 17:40:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 19:47:45

Time Test Ended: 23:19:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 67

Interval: 5380.00 ft (KB) To 5467.00 ft (KB) (TVD)

Reference Elevations: 2585.00 ft (KB)

Total Depth: 5467.00 ft (KB) (TVD)

2573.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 8968 Outside

Press @ RunDepth: 26.07 psig @ 5384.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.18

End Date: 2014.07.18

Last Calib.: 2014.07.18

Start Time: 17:40:05

End Time: 23:18:59

Time On Btm: 2014.07.18 @ 19:47:30

Time Off Btm: 2014.07.18 @ 21:04:30

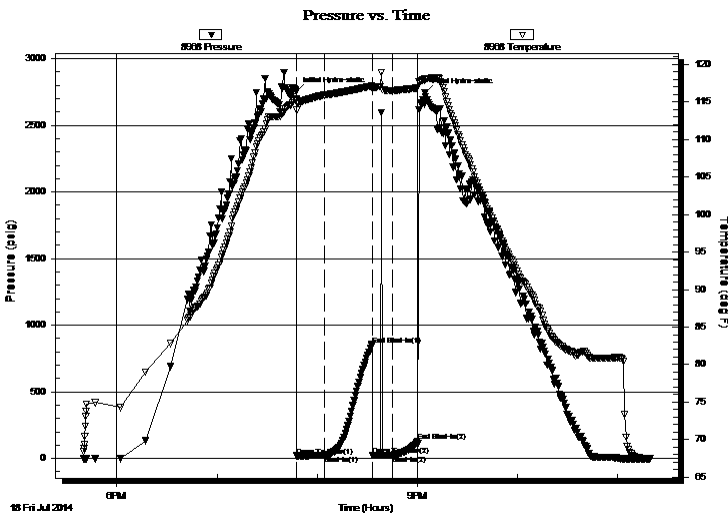
TEST COMMENT: IF: Weak surface blow -Died in 3 1/2 min.

IS: No return

FF: No blow -flushed tool-Good surge-Weak surface blow -Died in 3 1/2 min.

FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2752.04	115.39	Initial Hydro-static
1	19.67	113.90	Open To Flow (1)
17	22.17	115.91	Shut-In(1)
46	854.64	117.10	End Shut-In(1)
46	22.78	116.75	Open To Flow (2)
58	26.07	116.50	Shut-In(2)
73	126.99	116.87	End Shut-In(2)
77	2744.08	118.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /Trace of oil 100m	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation
155 N. Market STE 700
Wichita, Ks. 67202
ATTN: Jim Hall

32-29s-24w Ford Co., Ks.
Marfam #3-32
Job Ticket: 56552 **DST#: 4**
Test Start: 2014.07.18 @ 17:40:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/Trace of oil 100m	0.140

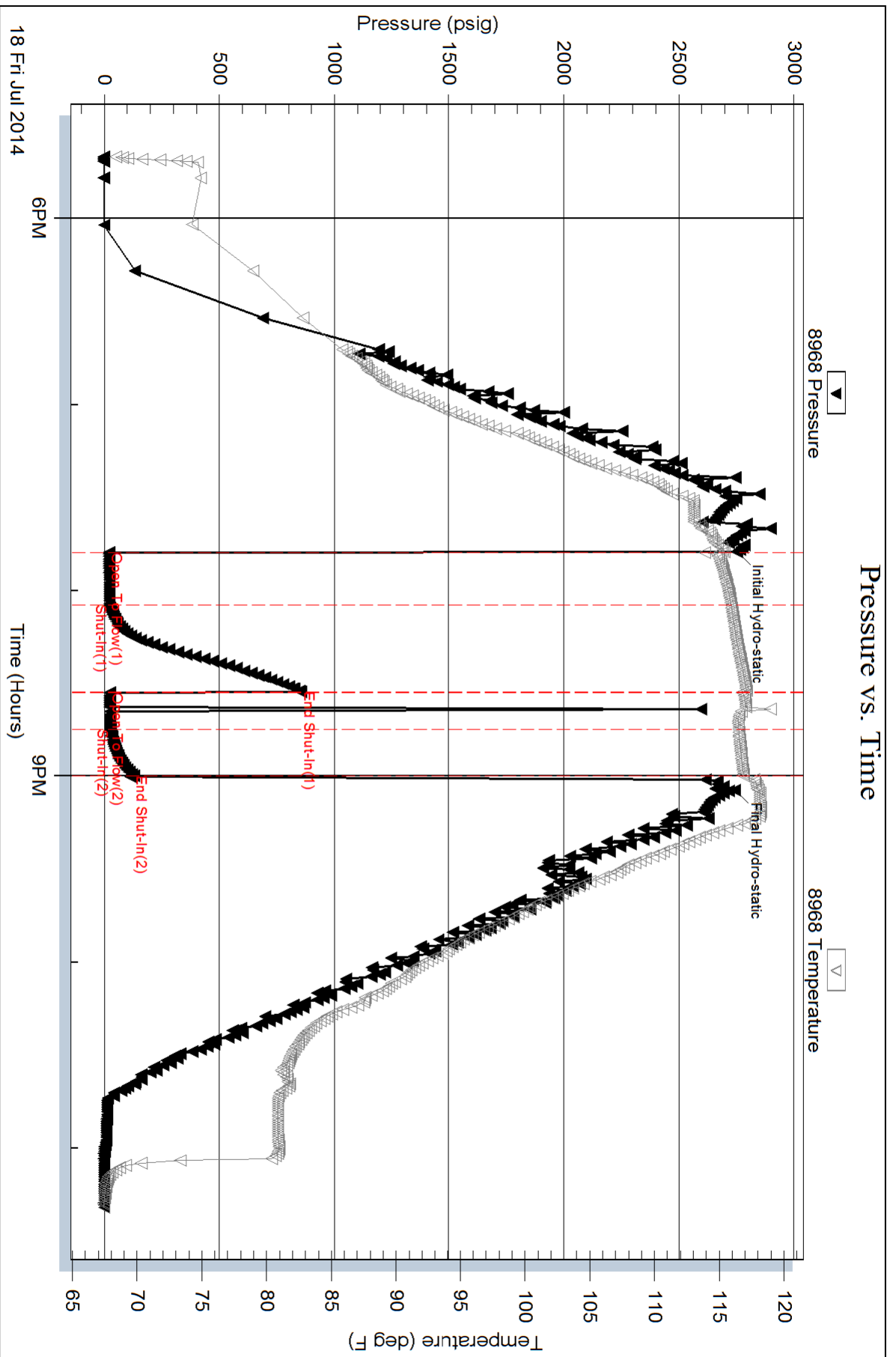
Total Length: 10.00 ft Total Volume: 0.140 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8968

Outside Vincent Oil Corporation

Marfan #3-32

DST Test Number: 4



LITHOLOGY STRIP LOG

WellSight Systems

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: VINCENT OIL CORP. MARFAM #3-32

Location: W/2 SE NE NW SEC. 32, T 29S, R 24W, FORD CO. KANSAS

License Number: 15-057-20935-00-00

Region: FAGER EAST

Spud Date: JULY 7th, 2014

Drilling Completed: JULY 18th, 2014

Surface Coordinates: 990' FNL, 2,080' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 2,573'

K.B. Elevation (ft): 2,585'

Logged Interval (ft): 4,250' To: 5,467'

Total Depth (ft): 5,467'

Formation: MISSISSIPPI

Type of Drilling Fluid: NATIVE MUD TO 3,798'. CHEMICAL GEL TO RTD

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: VINCENT OIL CORP.

Address: 155 N. MARKET STE 700

WICHITA, KANSAS 67202-1821

OFFICE; 316-262-3573

GEOLOGIST

Name: Jame R. Hall Well Site Supervision

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

316-838-2574

Comments

Drilling contractor: Duke Drilling, Rig #1, Tool Pusher Mike Godfrey.

Surface Casing: 8 5/8" set at 648' w/250sx, cement, did circulate.

Daily Activity:

7/08/14; 456' drilling 12 1/4" hole.

7/09/14; 1,280' drilling 7 7/8" hole.

7/10/14; 2,675' drilling ahead.

7/11/14; 3,483' drilling ahead.

7/12/14; 4,203' drilling ahead.

7/13/14; 4,806' drilling ahead, bit trip @ 4,918' and strap pipe (3.05' short to the board).

7/14/14; 5,073' drilling ahead.

7/15/14; 5,294' drilling ahead. ran DST #1.

7/16/14; 5,353' circulating samples. ran DST #2.

7/17/14; 5,372' running DST #3.

7/18/14; 5,467' RTD, run open hole logs and commence DST #4 .

7/19/14; well was P&A, with cement plugs.

Deviation Surveys: 1 deg. @ 649', 1 deg. @ 1,214', 1 deg. @ 1,750', 3/4 deg. @ 2,411', 1 deg. @ 2,914', 0.75 deg @ 4,918', 1 deg. @ 5,332', 1 deg. @ 5,467'.

Bit Record:

#1 12 1/4" out @ 649'.

#2 7 7/8" Veral HE 21 in @ 649', out @ 4,918', made 4,269' in 85.5 hrs.

#3 7 7/8" RR Veral HE 31 in @ 4,918', out @ 5,332', made 414' in 31.5 hrs.

#4 7 7/8" RR Veral HE 29 in @ 5,332', out @ 5,467', made 135' in 8.25hrs.

Drilling time commenced: @ 4,250'. Maximum 10' wet and dry samples commenced: @ 4,300' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem unit #0779. Digital Unit, commenced @ 4,200', (gas readings not until 4,353').

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,798', Mud Engineer: Justin Whiting (Dodge City Office).

Testing: Trilobite Testing Inc. Hays, Kansas. Tester: Mattheu Smith (Pratt Office).

Open Hole Logs: Nabors Completion & Production Services, Hays, Kansas,

Logging Engineer: Jeff Groneweg.

DIL, CDL/CNL/PE (detail 4,250' - 5,465'), MICRO/SON. MICRO (detail 4,250' - 5,465'), SONIC (detail 646' - 5,465').

Sample tops are placed on this strip log, with the reference wells "A" Vincent Marfam #1-32 NE NW 32-T29S-R24W, and "B" Vincent Dufford #2-32 NW NE 32-T29S-R24W. E-log tops datum differences shown. See attached E-log Tops Sheet, for final Top Picks and datum differences.

The (3' downward shifted) E-Log gamma ray and caliper were placed on this Sample Strip Log for better correlation. The E-log TD and Sample Strip log RTD were the same, however the E-log correlation points were 3' shallow to the drilling time correlation points.

DSTs

DST #1 (Morrow), 5,270' - 5,332' (62'); 19-45-45-60, IH 2754, IF 81-378 (weak 1/4" blow dead in 13min), ISI 645 (no blow), FF 56-193 (3" blow in 2min, 1 3/4" blow in 18min, 1/2" blow in 45min). FSI 224 (no blow), FH 2646, Rec; 15' drilling mud, Chl 7,400ppm, BHT 116 deg. F.

DST #2 (Miss.), 5,268' - 5,372' (104'); 45-90-90-120, IH 2778, IF 848-286 (BOB 1min, GTS 15min, 20" 730mcf, 30" 609mcf, 40" 474mcf, 45" 459mcf), ISI 1266 (no blow), FF 394-189 (BOB imd, GTS imd. 10" 740mcf, 20" 552mcf, 30" 474mcf, 40" 313mcf, 50min 459mcf, 60" 349mcf, 70" 245mcf, 80" 252mcf, 90" 238mcf). FSI 1054 (weak surface blow in 53"), FH 2640, Rec; 4,954' GIP, 62' gcm (2%gas,98%mud,trace oil), 62' gocm (65%gas,1%oil,34%mud), 62' gocm 15%gas,4%oil,81%mud), 62' gocm (20%gas,5%oil,75%mud), 62' gocm (28%gas,12%oil,60%mud), BHT 113 deg. F

DST #3 (Miss.) 5,333' - 5,372' (39') 70-90-100-150, IH 2630, IF 437-118 (BOB 20sec., GTS 16min, 20" 1,021mcf, 30" 552mcf, 40" 349mcf, 50" 232mcf, 60" 225mcf, 70" 211mcf), ISI (bleed off in 23min, weak surface blow), FF 134-53 (BOB & GTS immd., 10" 326mcf, 20" 286mcf, 30" 232mcf, 40' 198mcf, 50" 178mcf, 60" 171mcf, 70" 164mcf, 80" 157mcf, 90" 151mcf, 100' 144mcf), FSI 862 (bleed off in 15min, weak surface blow), FH 2554, Rec; 5,207' GIP, 118 total fluid; 56' gowcm (2% gas, 35% oil, 3% water, 60% mud), 31' gowcm (25% gas, 67% oil, 3% water, 5% mud), 31' gowcm (28% gas, 62% oil, 5% water, 5% mud), BHT 114 deg. F.

DST #4 (Miss) 5,380' - 5467' (87'), 15-30-11-15, IH 2752, IF 20-22 (weak surface blow, dead in 3.5"), ISI 855 (no blow), FF 23-26 (no blow, flush tool, weak surface blow, dead in 3.5"), FSI 127 (no blow), FH 2744. Rec; 20' mud with trace of oil (100% mud), BHT 118 deg. F.

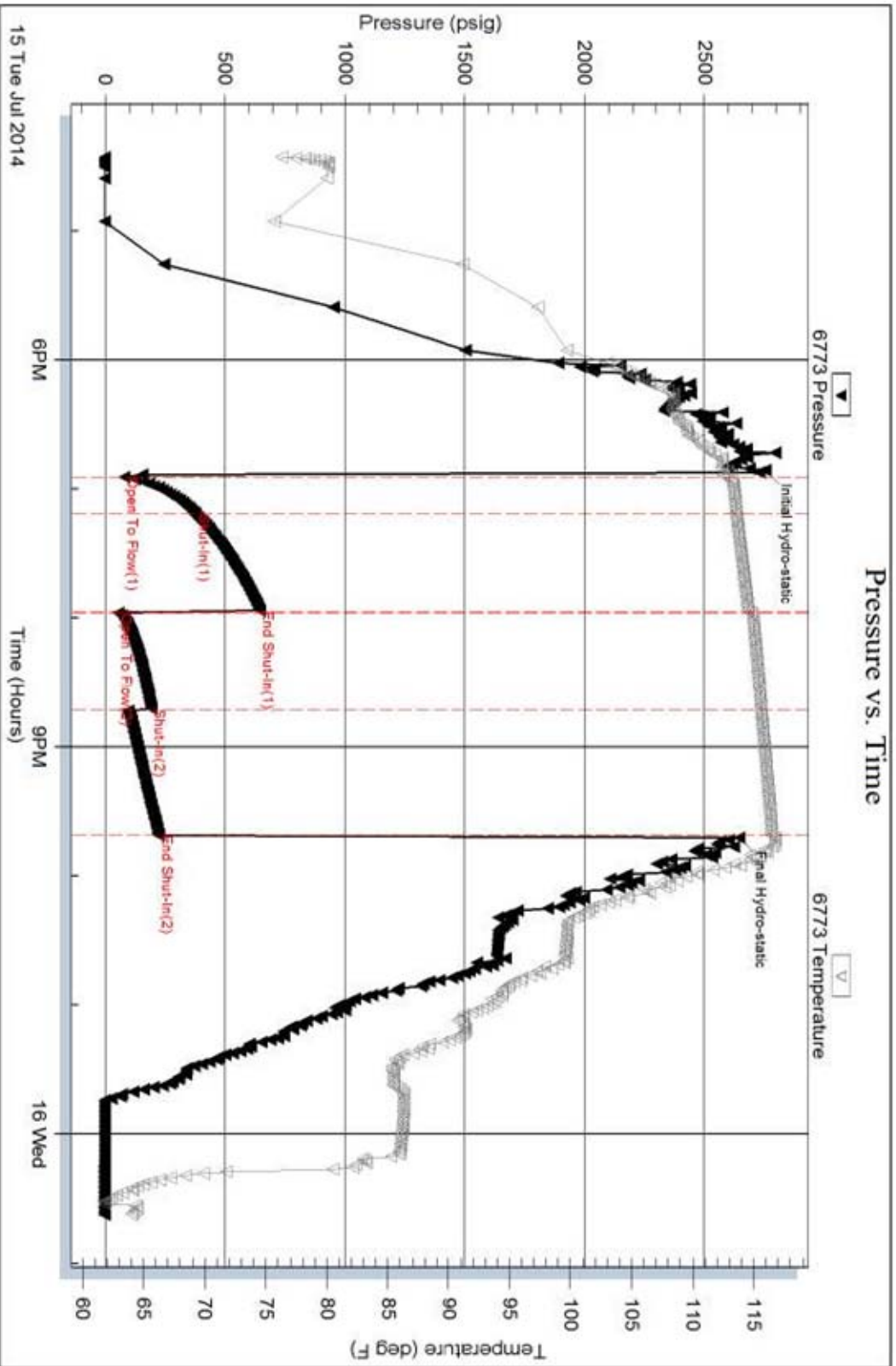
Serial #: 6773

Outside Vincent Oil Corporation

Marfan #3-32

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54199

Printed: 2014.07.16 @ 08:06:46

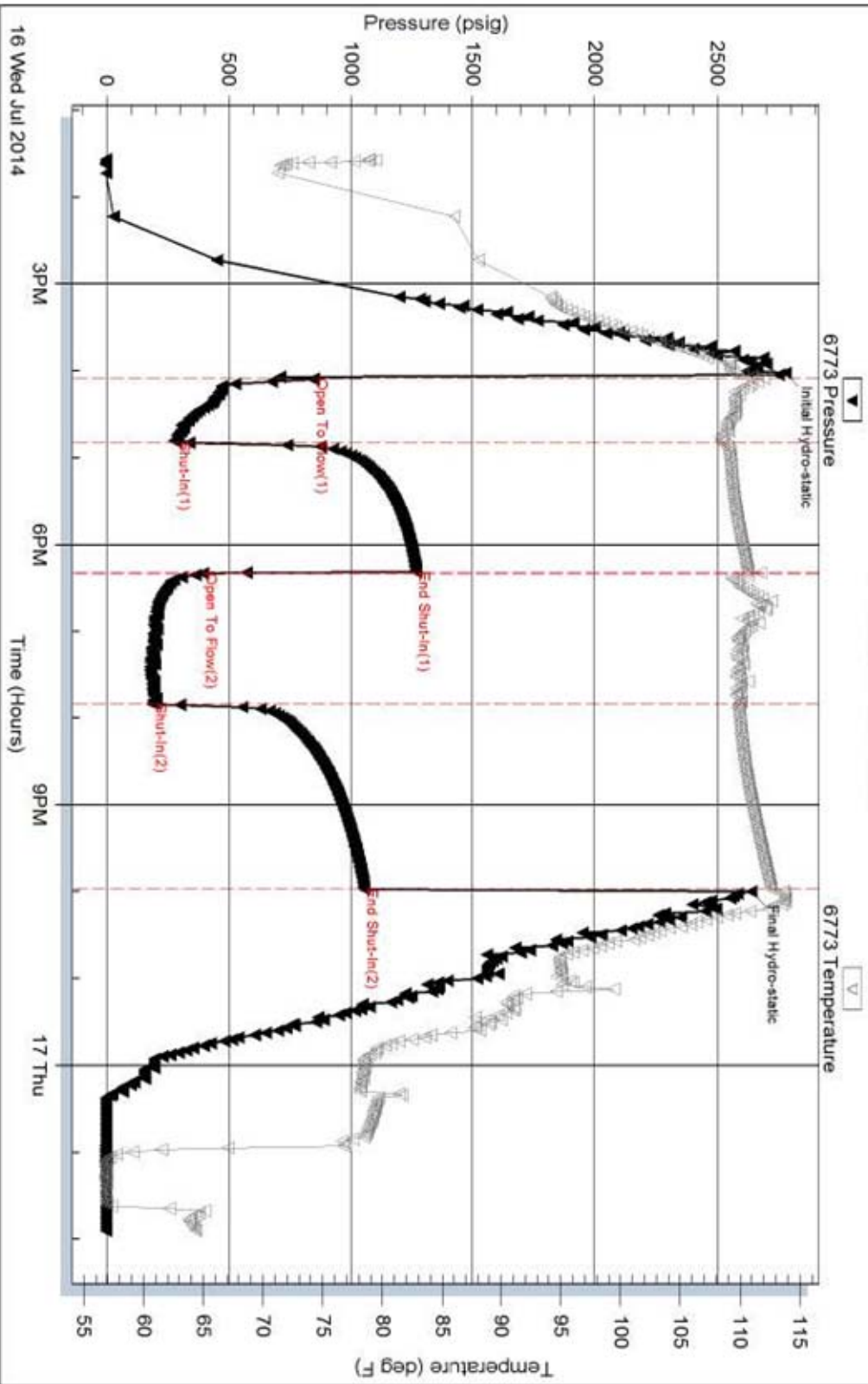
Serial #: 6773

Outside Vincent Oil Corporation

Marfan #3-32

DST Test Number: 2

Pressure vs. Time

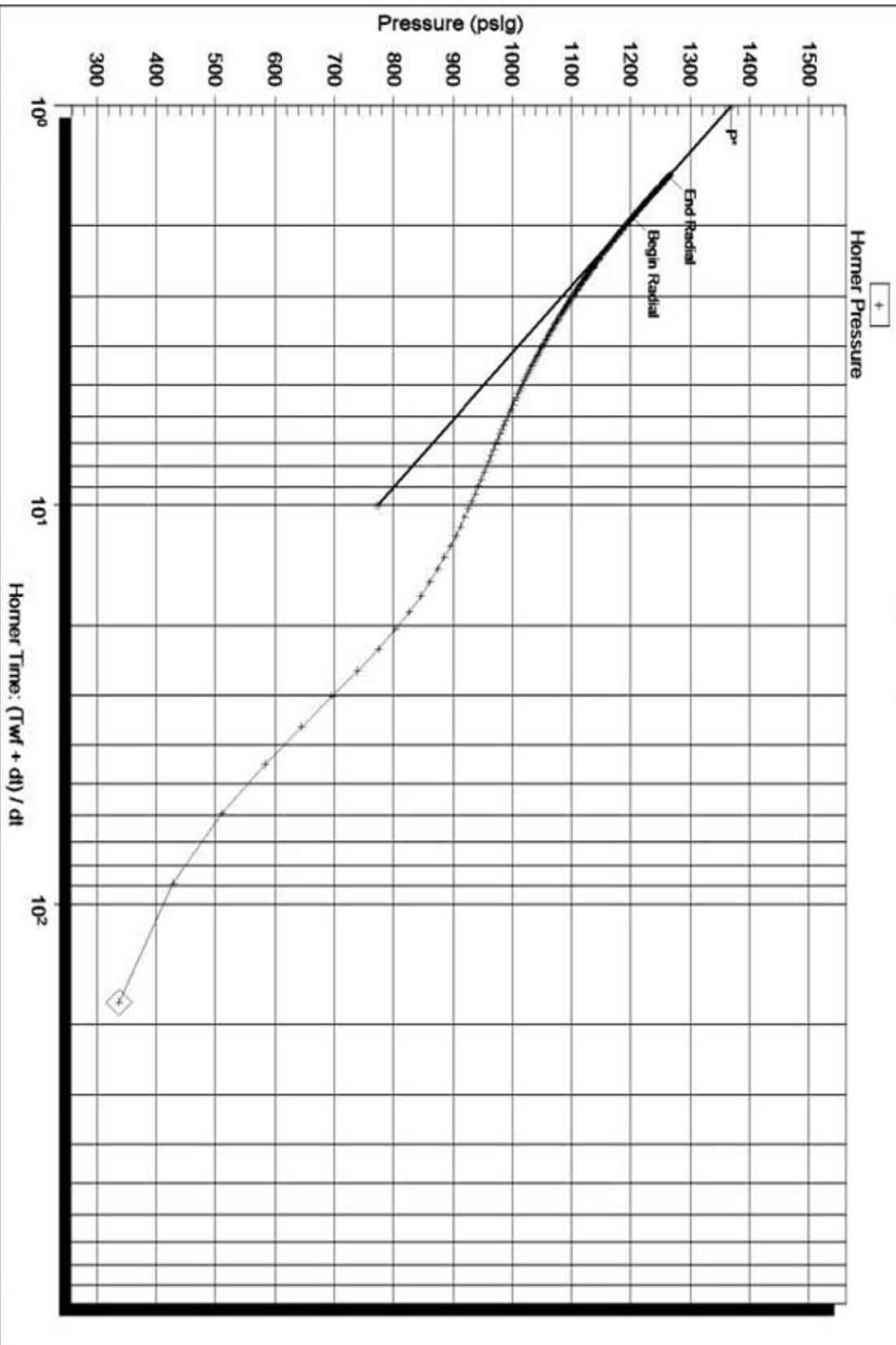


Triobite Testing, Inc

Ref. No: 54200

Printed: 2014.07.17 @ 08:52:49

Horner Plot



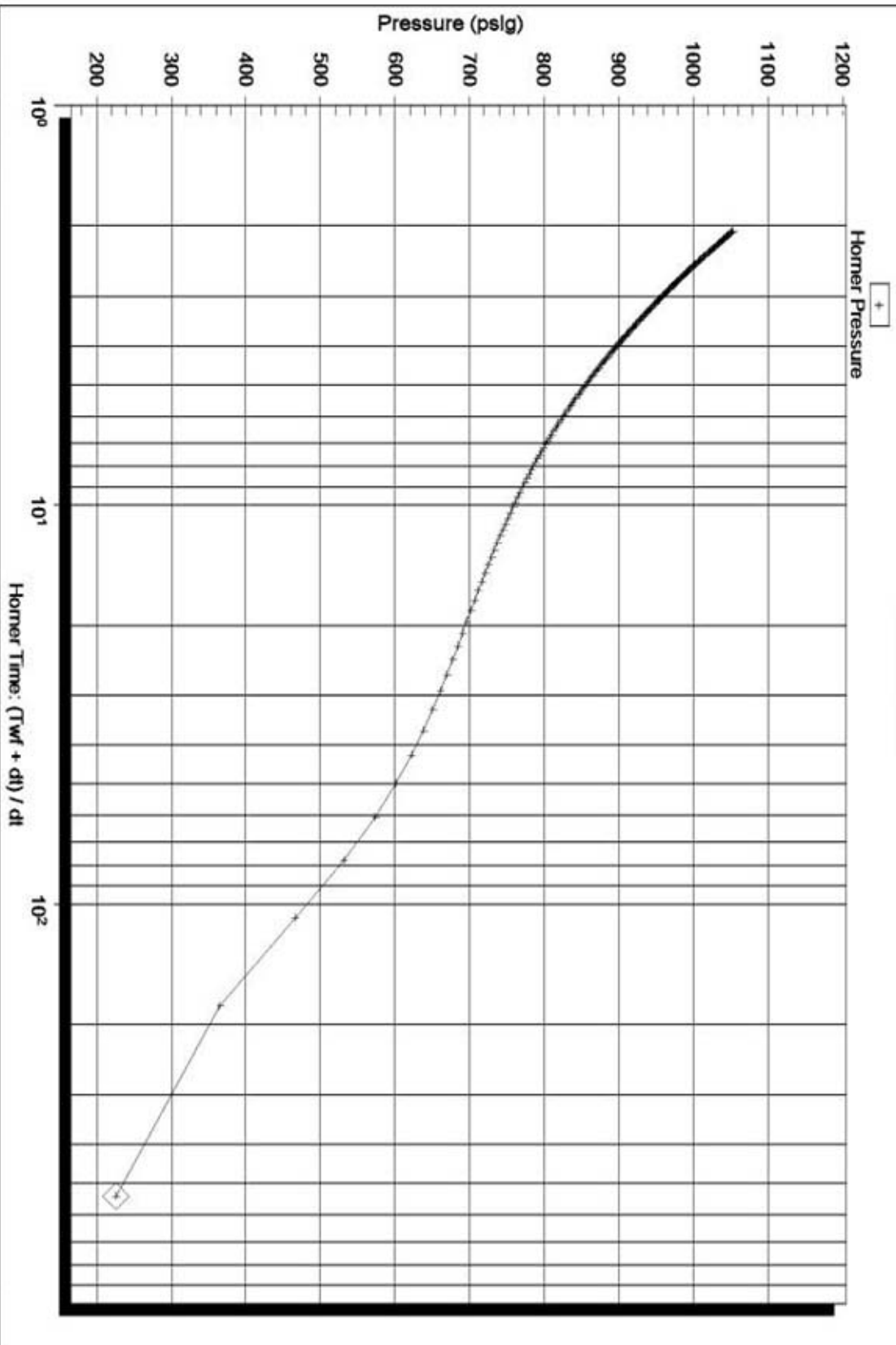
Serial Number: 6773 (Outside)

p^* : 1368.96

Slope (m) : 596.29 kpa/log cycle

Flow Cycle: 1

Horner Plot



Serial Number: 6773 (Outside)

P* :

Slope (m) : kpa/log cycle

Flow Cycle: 2

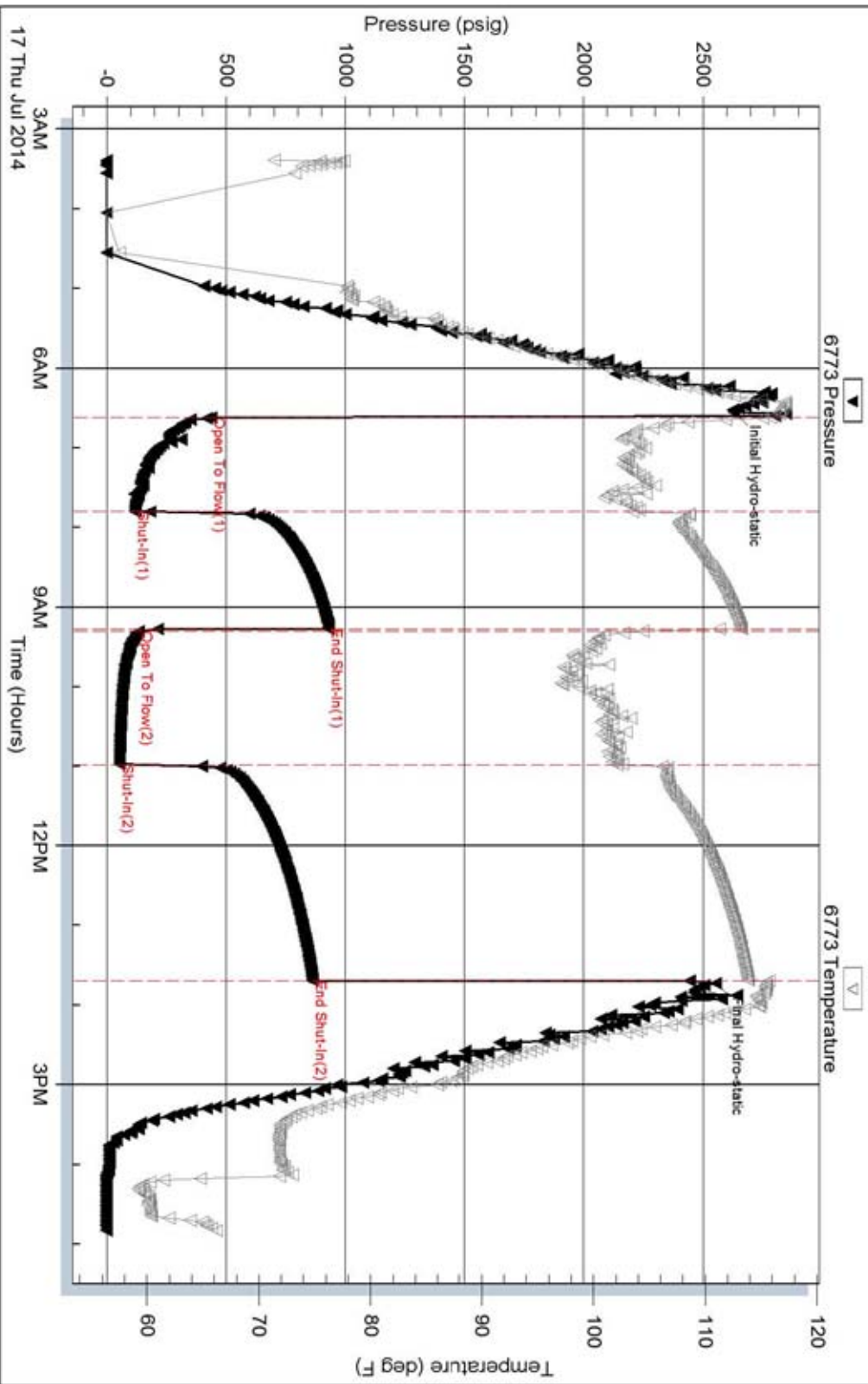
Serial #: 6773

Outside Vincent Oil Corporation

Marfan#3-32

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 54126

Printed: 2014.07.17 @ 22:58:02

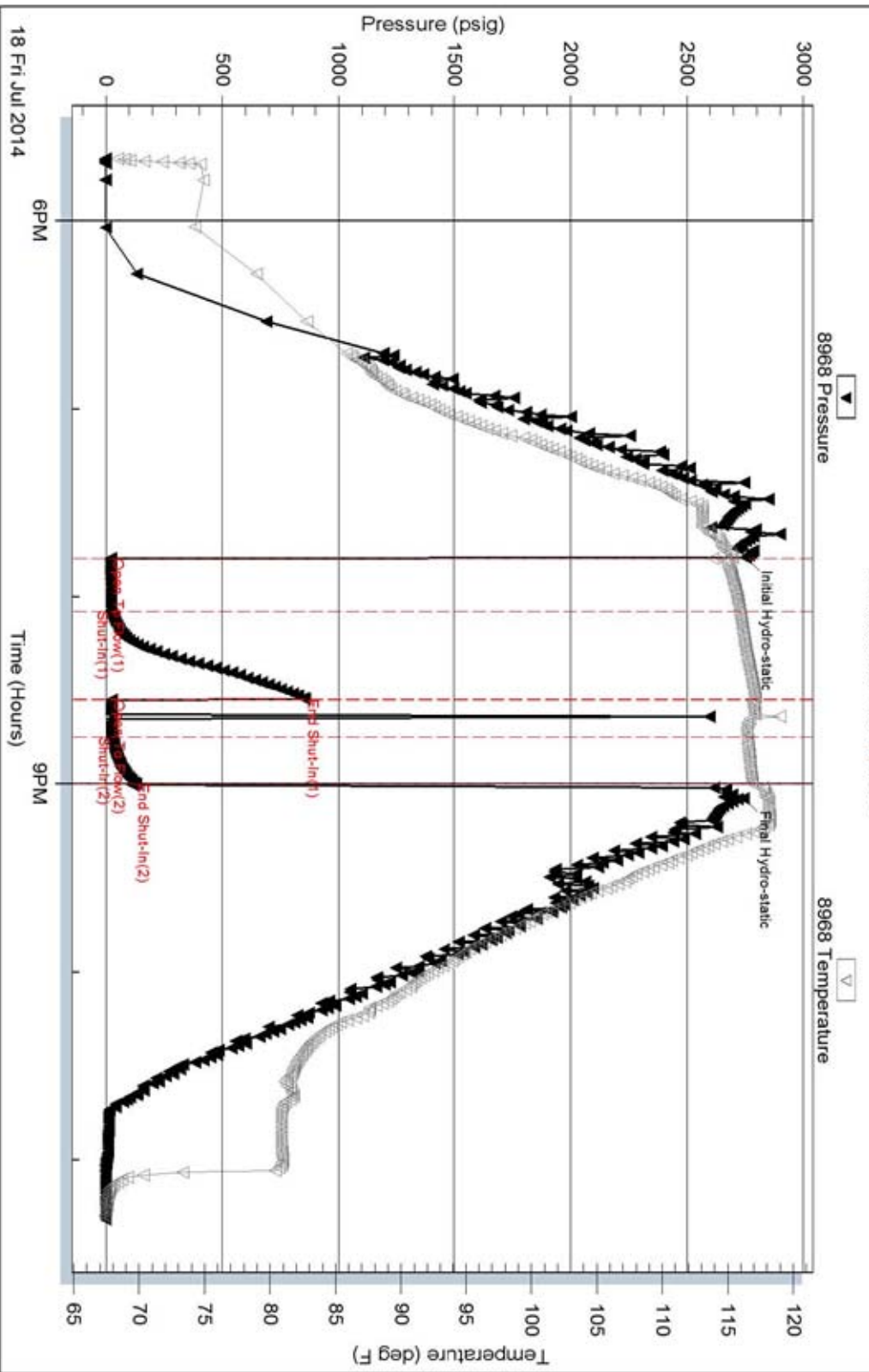
Serial #: 8968

Outside Vincent Oil Corporation

Marfan#3-32

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 56552

Printed: 2014.07.19 @ 00:18:43

WELL SITE OPERATIONS / JIM HALL SUPERVISOR

OPERATOR:

Vincent Oil Corp.

WELL REFERENCE SHEET

SUBJECT WELL:

Marfam #3-32

SUBJECT WELL LOCATION:

W/2 SE NE NW 32-T29S-24W

SUBJECT WELL DATUM:

2,585

REF. WELL 'A' Vincent Marfam 1-32 NE NW 32-29-24 **DATUM:** **2,581**

REF. WELL 'B' Vincent Dufford 2-32 NW NE 32-29-24 **DATUM:** **2,583**

E-LOG TOPS

**SUBJECT WELL:
ZONE**

WELL 'A'

WELL 'B'

	DEPTH	DATUM	DEPTH	DATUM	REF.	DEPTH	DATUM	REF.
HEEB.	4,392	-1,807	4,396	-1,815	8	4,398	-1,815	8
Brown Ls.	4,528	-1,943	4,528	-1,947	4	4,535	-1,952	9
Lansing	4,538	-1,953	4,539	-1,958	5	4,546	-1,963	10
Stark Sh	4,888	-2,303	4,894	-2,313	10	4,900	-2,317	14
Hushp. Sh	4,932	-2,347	4,939	-2,358	11	4,946	-2,363	14
Marmaton	5,042	-2,457	5,043	-2,462	5	5,051	-2,468	11
PAWNEE	5,116	-2,531	5,126	-2,545	14	5,128	-2,545	14
Labette Sh	5,144	-2,559	5,152	-2,571	12	5,155	-2,572	13
CKE Sh	5,165	-2,580	5,175	-2,594	14	5,176	-2,593	13
2nd CKE	5,197	-2,612	5,209	-2,628	16	5,208	-2,625	13
B/Penn.	5,275	-2,690	5,288	-2,707	17	5,288	-2,705	15
SAND #1	5,288	-2,703	5,300	-2,719	16	5,300	-2,717	14
SAND #2						5,324	-2,741	
MISS.	5,308	-2,723	5,329	-2,748	25	5,346	-2,763	40
1st Por.	5,356	-2,771	5,352	-2,771 even		5,352	-2,769	-2

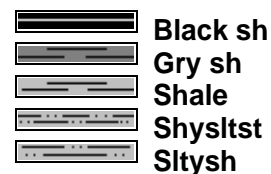
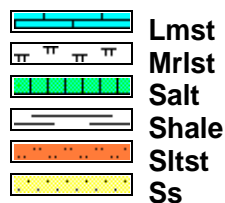
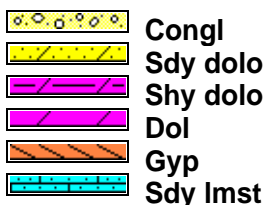
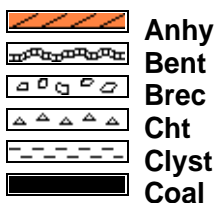
Qualifiers

CARBONATE CLASSIFICATION:

AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **GRAINSTONE;** mud free carbonate rock, grain supported. **BOUNDSTONE;** carbonate rock bound together at deposition (coral, etc.). **CRYSTALLINE CARBONATE;** carbonate rock retaining to little of their depositional texture to be classified.

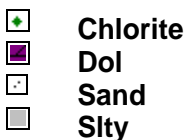
Qualifiers; (Fossils, Minerals, Shows, Porosity, etc.) rare = less than 1% of sample total, trace = less than 5% of sample total, greater than 5% an estimate of total percentage.

ROCK TYPES

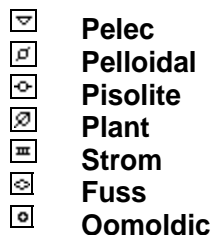
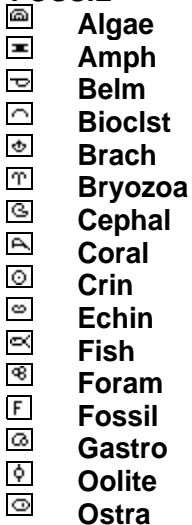


ACCESSORIES

MINERAL



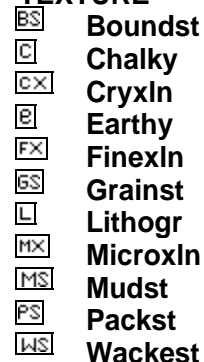
FOSSIL



STRINGER



TEXTURE



Curve Track 1

ROP (min/ft) ———
 Gamma (API) - - - -
 Caliper (API) ·····

TG (units) ———
 C1 (units) - - - -
 C2 (units) - - - -
 C3 (units) ·····
 C4 (units) ·····
 C5 (units) ·····

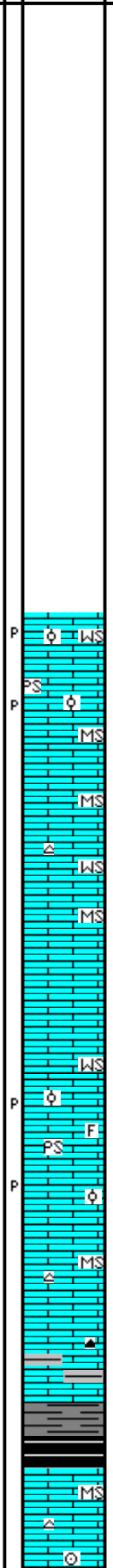
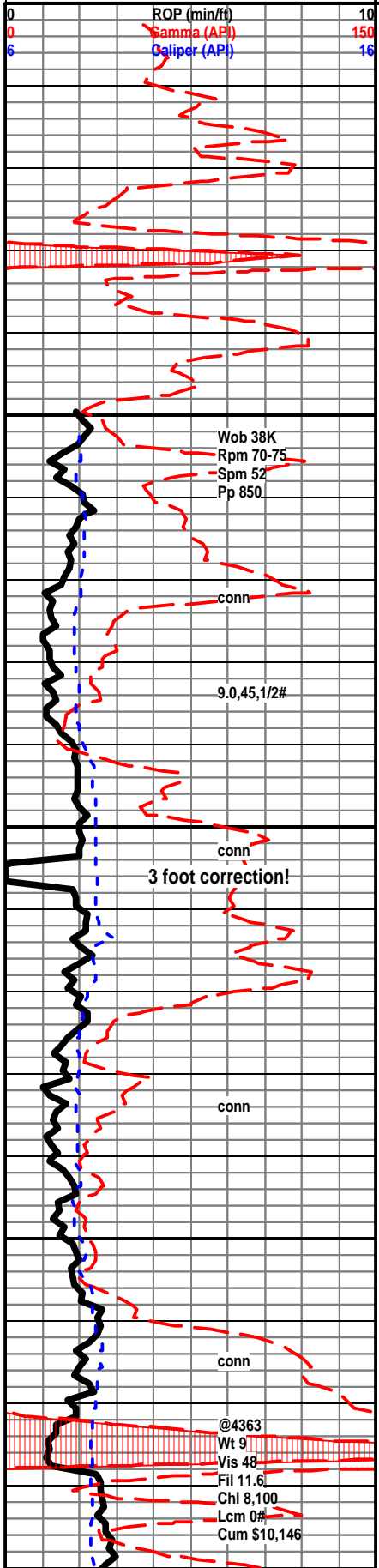
Depth

Porosity Type

Lithology

Oil Shows

Geological Descriptions



JIM HALL ON LOCATION @ 10:30 HRS. 7/12/14

Wackestone to Packstone; cream to off white, hard to brittle, most chalky texture, micro-oolitic, tight look in the wet sample, no show, sample quality fair 20-30% shales, rare barren porosity in the dry.

Mudstone; slight increase gray and brown, hard to brittle, mc chalky, some silky-crystalline, dense.

Mudstone to Wackestone; cream to off white, hard to soft, some micro-oolitic, trace free light gray blocky chert.

Mudstone; tan to brown, hard, tabular to blocky, chalky texture, tight look in wet sample

Wackestone to Packstone; off white to cream, hard to brittle, some soft, micro-oolitic to micro-fossiliferous, no show in wet, no visible porosity in the wet sample, rare barren porosity in the dry sample, no show.

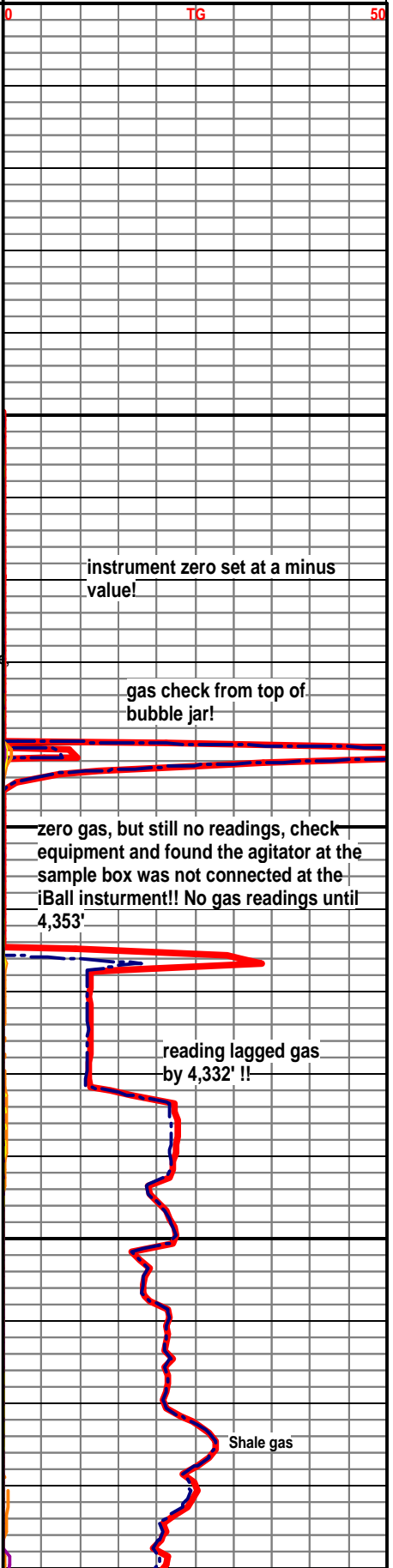
Mudstone; off white to cream, hard to brittle, some soft, most with chalky texture, tight look in wet sample, no show wet, trace off white to opaque free chert, sample improving with depth.

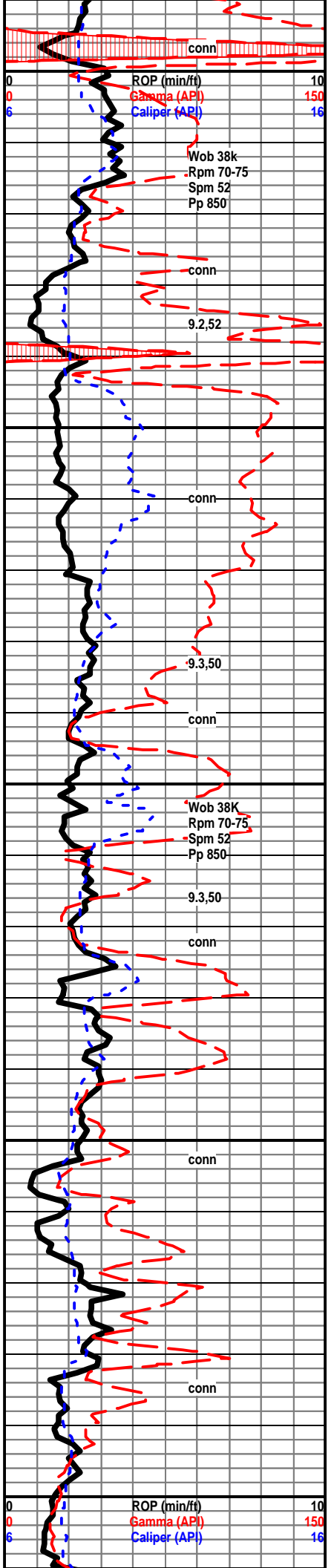
AA; rare dark free chert.

Shale; slight increase in gray soft to hard shales, 5-10% soft black carbonaceous shales, no visible gas bubbles.

Mudstone; off white to cream, chalky, some micro-oolitic, no show, rare free chert and crinoid stem.

Heebner 4394 (-1809) A +6 B +1





Shale; black-carbonaceous, rare visible gas bubbles when broken on the hard shale.

Shale; slight increase in % gray, dark gray and black-carbonaceous.

Mudstone; cream to gray, hard to brittle, chalky texture, tight look in wet, some micro-fossils, no show, rare free chert.

Wackestone to Packstone; cream to tan, hard to brittle, micro-oolitic to micro-fossiliferous, in tight looking chalky matrix-wet sample, rare barren porosity in the dry sample, no cut on selected samples.

Mudstone; rare free chert and crinoid stem, no show.

Shale; slight increase approx. 15%, gray, dark gray and black-carbonaceous.

Mudstone; most cream, hard-chalky, rare free chert.

Mudstone to Wackestone; cream to off white, hard to soft, most chalky texture, micro-oolitic, tight look in wet, rare barren porosity in dry, no cut on selected samples.

Shale; gray, dark gray to black, soft to firm, rare free pyrite.

Mudstone; cream to off white, most hard, some soft, most chalky, dense, some with dark inclusions, no show, rare free crinoid stem.

Brown Lime 4531 (-1946) A +1 B +6

Mudstone; brown, hard, silky-crystalline.

Shale; gray to gray-green.

Lansing 4544 (-1959) A -1 B +4

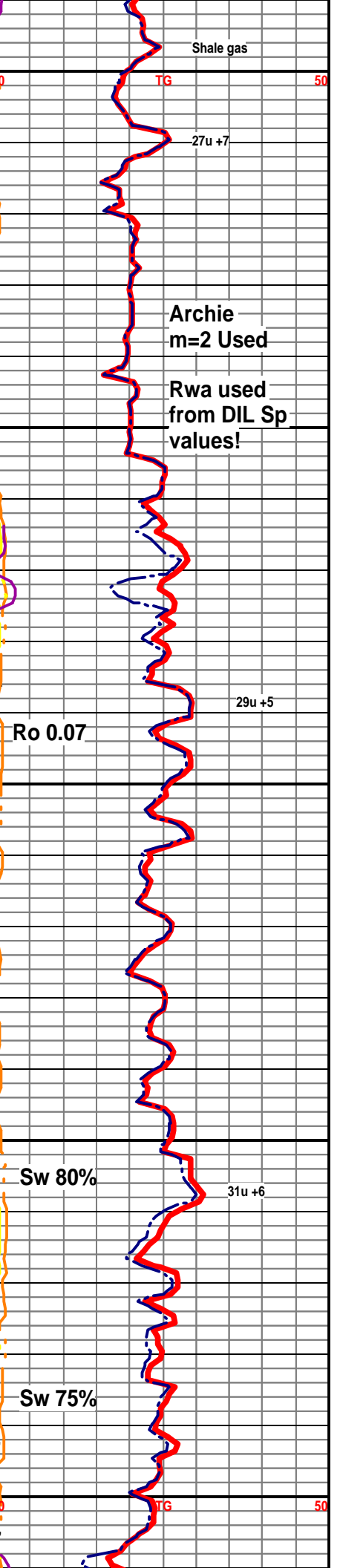
Packstone to Wackestone; cream to off white, occasionally light gray, hard to brittle, micro-oolitic, to micro-fossiliferous, in a chalky matrix, no cut on selected samples, rare free chert no porosity wet, rare barren porosity in the dry.

Mudstone; cream to off white, some light gray, hard to soft, most chalky texture, some micro-oolites and micro-fossils, rare free light sharp chert.

Mudstone; gray to off white, hard to brittle, chalky, dense.

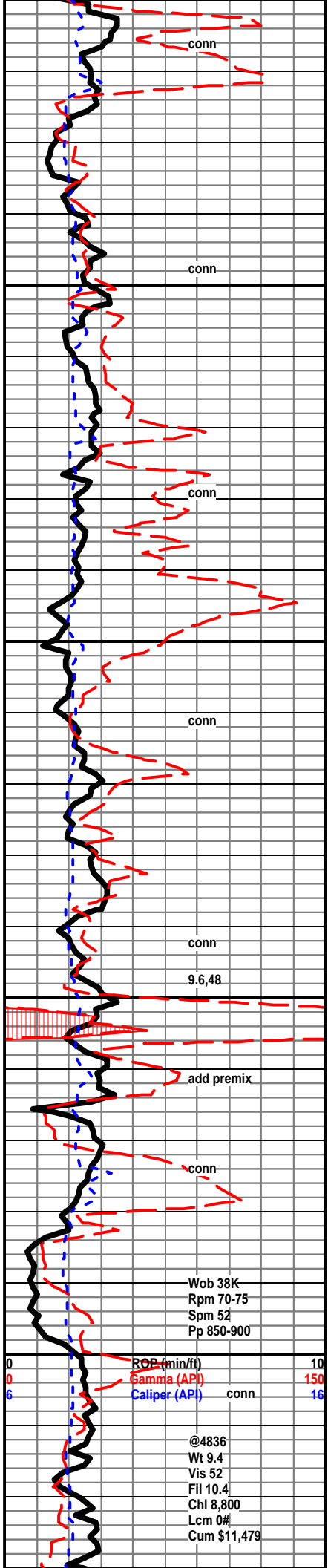
Mudstone; slight increase in tan, hard, silky-crystalline, dense rare light gray chert and crinoid stem.

Wackestone; cream to off white, hard to brittle, micro-oolitic in a chalky matrix, rare very fine crystalline look-friable, no show, rare barren porosity in dry sample.



Archie
 m=2 Used
 Rwa used
 from DIL Sp
 values!

Ro 0.07



4650

4700

4750

4800

Mudstone; gray to cream, hard, chalky, rare free dark blocky chert here, slight increase in % of gray Shale, some silty - gritty look.

Wackestone; cream to tan, micro-oolitic to micro-fossiliferous chalky to crystalline matrix, looks tight in wet, rare barren porosity in the dry, no visible show

Mudstone; cream to light gray, hard to brittle, most with chalk texture, free light gray chert, slight increase in shale here.

Mudstone; cream to light gray, hard to brittle, most chalky, some micro-fossiliferous, rare free light gray chert.

Mudstone; as above, no real change in sample here.

Mudstone; slight increase in tan, to light brown, dense, and Shale.

Mudstone; light gray, hard, chalky to crystalline, dense.

Wackestone; light gray, cream, hard, chalky-crystalline, micro-oolitic, to micro-fossiliferous, no show or visible porosity in the wet, rare barren porosity in the dry.

Wackestone; to Mudstone; as above, no show, no visible porosity in the wet.

Mudstone; light gray, cream, hard to brittle, chalky to silky and some crystalline, increase in gray to gry-green and black shales here.

Mudstone; cream to light gray, as above, less shale here, rare free light chert.

Wackestone; cream to light gray, most hard, chalky to crystalline texture, micro-oolitic to micro-fossiliferous, tight look wet, no show wet, rare barren porosity in the dry.

Mudstone; cream to off white, most chalky, dense, rare free black chert.

Shale; slight increase in black-carbonaceous, soft to firm, no visible gas bubbles.

Mudstone; most as above, increase in gray-green waxy shales here, free light gray chert.

Mudstone; cream to off white, most chalky, tight looking wet, rare free crinoid stem.

Shale; increase in gray and black.

Packstone to Wackestone; cream to off white, hard to brittle, chalky matrix, micro-oolitic, rare fine to medium oolites in tight looking matrix-wet, rare barren porosity in the dry sample.

Mudstone; slight increase in tan to light brown here, hard, dense looking, silky-crystalline texture, rare gray chert.

Mudstone; cream to off white, hard to soft, most chalky, some crystalline-silky luster, dense, some micro-fossils, rare free dark brown fossiliferous chert.

Mudstone; tan to buff, hard to brittle, crystalline to chalky, dense, trace light gray free chert.

Sw 90% 30u + 4u

Ro 0.07

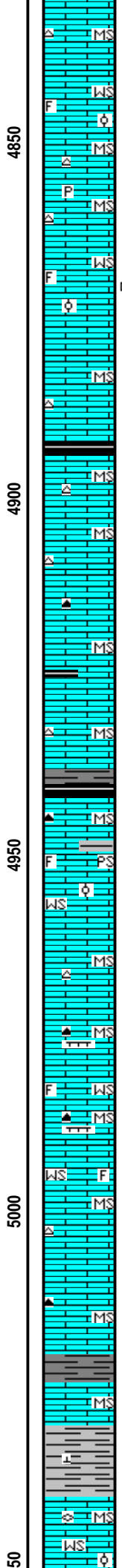
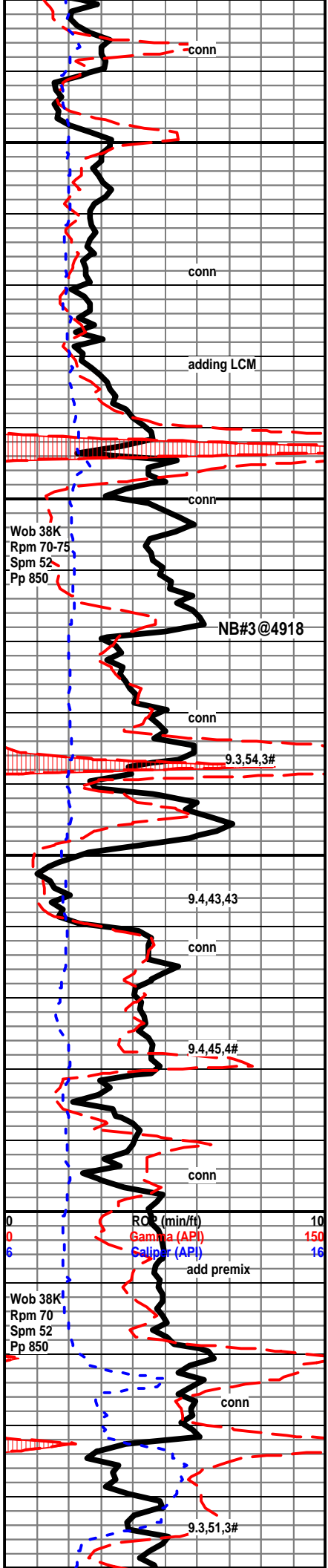
Ro 0.06

TG 50

Wob 38K
Rpm 70-75
Spm 52
Pp 850-900

ROP (min/ft) 10
Gamma (API) 150
Caliper (API) 16

@4836
Wt 9.4
Vis 52
Fil 10.4
Chl 8,800
Lcm 0#
Cum \$11,479



Mudstone; as above, no real change here, less free chert here

Wackestone; cream to off white, chalky to crystalline matrix, micro-oolitic to fossiliferous, tight looking in wet sample, no visible show-wet.

Mudstone; cream to off white, most chalky, rare off white free chert.

Wackestone; cream, hard to firm, micro-oolitic, to fossiliferous, rare crinoid stem, tight look wet, no show in wet rare black wormy dead looking stain, no cut, no odor.

Mudstone; increase in brown, hard to brittle, silky-crystalline texture, dense looking, rare free chert, no carbonaceous shale increase in the 4,900' sample!

Stark Shale 4892 (-2307) A +6 B +10

Shale; small increase in black-carb., no visible gas.

Mudstone; cream to brown, and dark gray, hard, brittle, chalky to crystalline, dense, free opaque and off white chert, some spicular look, slight increase in black carb shale in the 4910 and 4918 samples.

Mudstone; cream to gray, hard, chalky to crystalline, dense, free rare black chert, small influx black carbonaceous non-gassy shale here-cave?

Hushp. Shale 4938 (-2353) A +5 B +10

Shale; dark gray to black-carbon. most soft.

Mudstone; gray to brown, hard, dense, crystalline to chalky.

Packstone to Wackestone; off white, cream, hard to brittle, crystalline to chalky matrix, micro-oolitic, to fossiliferous, rare brach, no cut on selected samples, no visible show in wet.

Mudstone; cream to gray, hard to brittle, chiky, crystalline inpart, dense, rare free chert.

Mudstone; influx, dark gray and black, hard to very hard, marly-argillaceous residue, 5% black sharp and blocky chert.

Wackestone; cream, micro-fossiliferous, no show.

Mudstone; as above, sample quality poor, due to drop in vis?

Wackestone; as above, no show.

Mudstone; cream to gray, hard to brittle, chalky to crystalline matrix, some mottled, some argillaceous, rare free opaque chert.

Mudstone; as above, rare free black sharp chert.

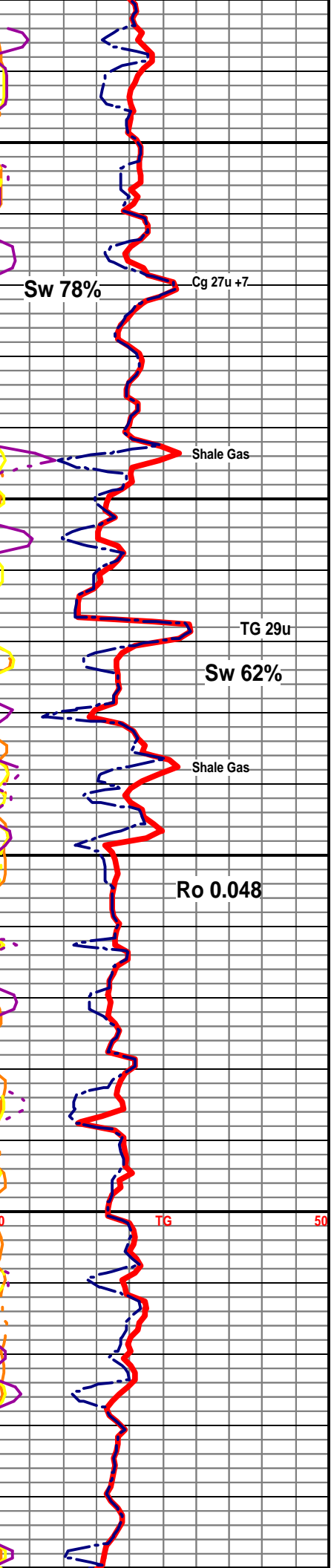
Shale; dark gray, gray, rare pale green-waxy.

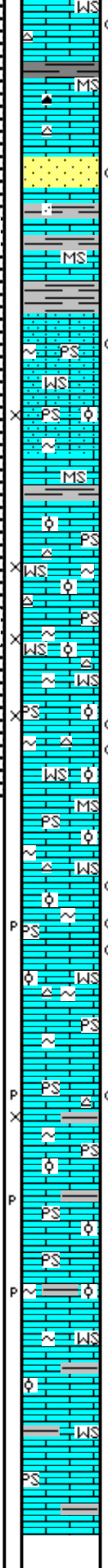
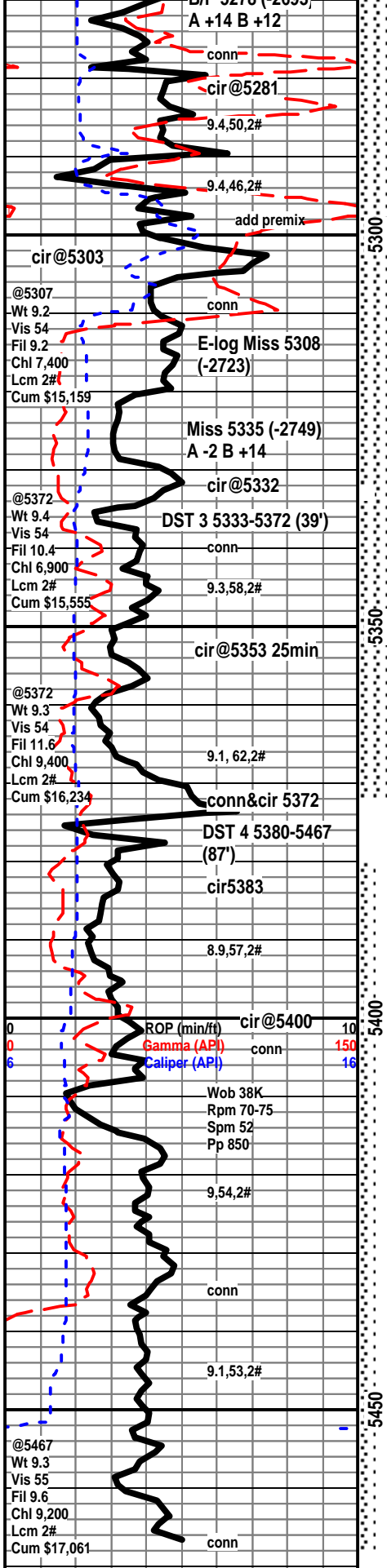
Mudstone; gray, hard to brittle, blocky, some argillaceous.

Shale; gray, some dark gray, slight increase in pale green-soft and waxy, some shales are mottled, rare red-brown soft, some slightly calcareous.

Marmaton 5040 (-2455) A +7 B +13

Mudstone; cream to gray, hard to brittle, miroc-oolitic Wackestone inpart. rare fusulinid. much shale still in sample





micro-oolitic in tight looking matrix, 1 sample with fluorescence, instant cut, no odor, no visible porosity, no stain, no visible oil, 1 cluster, light gray quartz sand, ufg, wlstrd, cons, micaceous, no show.

Mudstone; cream, brown, chalky to crystalline dense.

Morrow Sand 5290 (-2705) A +14 B +12?

Sandstone; quartz, ufg, vwlstrd, rnd, cons, sli-dolo cmt, 5 clusters, only one with light tan stain, only one has pre-fluorescence, however 4 have slow milky cut, no visible oil, no visible gas bubbles, 30min sample with very faint odor, looks tight, no visible porosity in wet or dry.

Shale; gray, black, green, purple, some waxy.

Packstone to Wackestone;; off white to white, sandy lime, firm to friable, chalky matrix, some with dull fluorescence, 2 samples with slow milky cut, no visible oil or gas, very faint odor.

Packstone to Wackestone; most as above, slight increase in micro-oolitic to oolitic, chalky to very fine crystalline matrix, rare samples with medium oolites, faint odor under mic, no visible show, no cut on selected samples, some heavy sand residue, some clean carbonaceous sand, one sample with barren inter-oolitic porosity. rare Morrow sand show from above, some with bleeding gas bubbles.

Packstone to Wackestone; off white, chalky to crystalline, fine to medium oolites, hard to brittle, cream, fine to micro-oolitic, hard, firm, chalky to crystalline matrix, light gray, most micro-oolitic, hard most crystalline, rare galuconite, rare orange fossiliferous chert, mineral fluor., no cut, no odor, rare visible inter oolitic porosity-no stain.

Packstone to wackestone; as above; (3) sample with fluorescent cut; (2) off white to light gray, medium to fine oolites in chalky matrix, instant cut, no visible oil, rare spotty inter oolitic porosity, most look barren, rare very faint tan stain, some crystal over growth, (1) bone white; highly chalky amorphous matrix with micro-oolites, no porosity no stain, however residual ring cut, 30min no odor, 60min very faint odor, rare free foss. orang chert, rare galuconite.

Wackestone to Packstone; 5372-5380 off white to buff, chalky to crystalline matrix, micro-oolitic to fine oolitic, rare medium oolites, no show, poor sample quality, after trip.

Wackestone 5380-5385; cream off white, micro-oolitic, rare crystalline matrix, brittle, no show, (1) Tan Mudstone with rare micro-oolites in matrix, residual ring cut, no other show.

Packstone; 5385-5395; off whtie, to cream, some gray, micro-oolitic to medium oolites and trace crs-oolites, firm to hard, most chalky, rare crystalline matrix, (3) samples med-oolites with slow milky cut, no visible porosity in wet, no stain, no odor, no visible oil, (1) dry sample with spotty stain and rare porosity, (2) dry samples with rare barren porosity with no stain, sample quality improving.

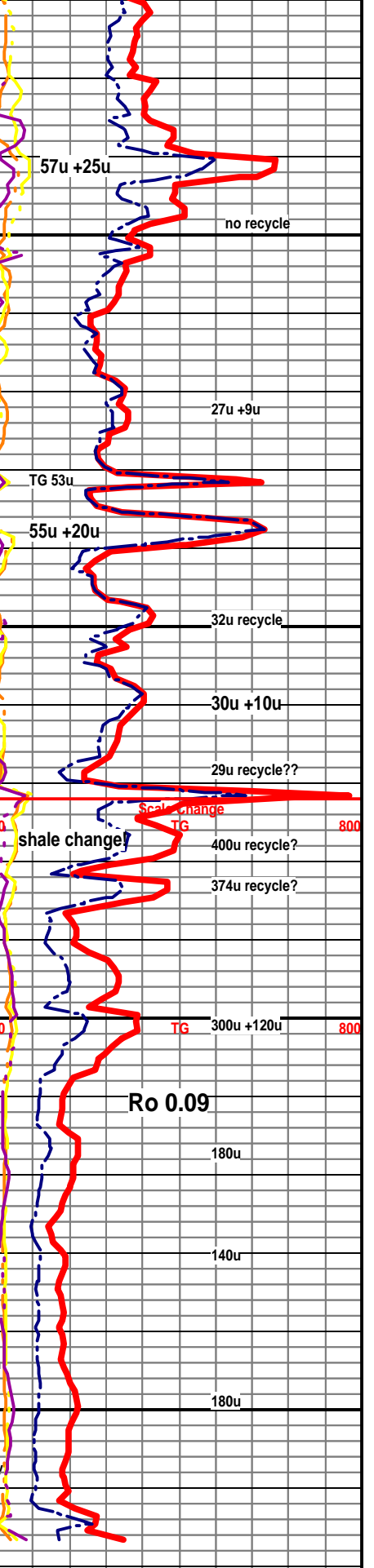
Packstone; 5408-5416; cream to buf, most chalky, brittle to firm, micro-oolitic to fine oolites, (1) sample, medium oolitic, bright fluor., instant cut, visible porosity with brown stain, no visible gas, no odor, could be caving? 60% shale, black, gray green, brick red.

Packstone; 5416-5430; off white, brittle to hard, fine to medium oolites here, most chalky matrix, no cut on selected samples, 40% shale as above, rare barren porosity in the dry, 40% shale as above.

Packstone; 5430-5440, most as above, fine to medium oolites in chalky matrix, rare galuconite, no show, rare barren porosity in the dry, no stain, no show.

Wackestone; 5440-5450; cream to gray, fine oolites to micro-oolitic, hard to firm, scattered light gray, some with da inclusions, brittle. no show, light gray free oolitic chert here, 50% shale here.

Wackestone to Packstone; 5450-5467; cream to off white, micro-oolitic to medium oolitic, chalky to trace crystalline matrix, rare galuconite inclusions, rare free orange chert, 70% shale, black, gray, pale green to sea gray, silky to waxy, some mottled and laminated, some slightly dolomitic. All this shale must be cave?



RTD 5,467' 7/18/14

E-LOG TD 5,467'

