



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1210616
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: _____

1210616

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	Doll 1-5
Doc ID	1210616

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Doll 1-5
Doc ID	1210616

Tops

Name	Top	Datum
Heebner Shale	3878	(-1206)
Brown Limestone	3954	(-1282)
Lansing	3961	(-1289)
Stark Shale	4281	(-1609)
Pawnee	4462	(-1790)
Cherokee Shale	4497	(-1825)
Morrow Sand	4597	(-1925)
Mississippian	4604	(-1932)
RTD	4709	(-2037)

ALLIED OIL & GAS SERVICES, LLC 062727

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Medicine Lodge KS

DATE <u>2/18/14</u>	SEC <u>5</u>	TWP. <u>233</u>	RANGE <u>29w</u>	CALLED OUT <u>400AM</u>	ON LOCATION	JOB START <u>11:15AM</u>	JOB FINISH <u>12:15PM</u>
LEASE <u>Doll</u>	WELL# <u>1-5</u>	LOCATION <u>Cimarron KS, North to 156,</u>			COUNTY <u>Finney</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		Went to 23 North + 15 West (Byrest Sup) 4 West, North into by house					

CONTRACTOR Val OWNER Vincent

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>465</u>	CEMENT
CASING SIZE <u>8 3/8</u>	DEPTH <u>460</u>	AMOUNT ORDERED <u>110sx 60:40:8% gel +</u>
TUBING SIZE	DEPTH	<u>3% cc + 1/4 # Flocon, 100sx Class A + 3% cc</u>
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX <u>700</u>	MINIMUM	
MEAS. LINE	SHOE JOINT <u>40</u>	
CEMENT LEFT IN CSG. <u>40</u>		

PERFS. _____
DISPLACEMENT 27 BBLs Fresh H₂O

EQUIPMENT			
PUMP TRUCK CEMENTER <u>Jason Thinesch</u>	# <u>548/545</u>	HELPER <u>Justin Bowen</u>	
BULK TRUCK	# <u>421/290</u>	DRIVER <u>Hector (TWS)</u>	
BULK TRUCK	# _____	DRIVER _____	

COMMON <u>class A</u>	<u>100sx @ 17.92</u>	<u>1790.00</u>
POZMIX	@ _____	_____
GEL	@ _____	_____
CHLORIDE	<u>8sx @ 64.00</u>	<u>512.00</u>
ASC	@ _____	_____
<u>ALW #2</u>	<u>110sx @ 15.92</u>	<u>1754.50</u>
<u>Flocon</u>	<u>28# @ 2.97</u>	<u>83.16</u>
	@ _____	_____
	@ _____	_____
	@ _____	_____
	@ _____	_____
HANDLING <u>236.14 ft³</u>	@ <u>2.48</u>	<u>585.73</u>
MILEAGE <u>10.06</u>	<u>30</u>	<u>1301.80</u>
TOTAL		<u>6035.21</u>

REMARKS: Did cure cement

SERVICE		
DEPTH OF JOB	<u>460'</u>	
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@ _____	_____
MILEAGE	<u>50 @ 7.70</u>	<u>385.00</u>
MANIFOLD <u>Handcentral</u>	@ _____	<u>275.00</u>
<u>6 1/2" + Vehicle</u>	<u>50 @ 4.40</u>	<u>220.00</u>
	@ _____	_____
TOTAL		<u>2392.25</u>

CHARGE TO: Vincent
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT		
<u>8 3/8</u>		
<u>Baffle Plate</u>	@ _____	<u>320.00</u>
<u>Rubber plug</u>	@ _____	<u>131.00</u>
	@ _____	_____
	@ _____	_____
	@ _____	_____
TOTAL		<u>451.00</u>

SALES TAX (If Any) _____
TOTAL CHARGES 8877.46

PRINTED NAME Randy Small
SIGNATURE Randy Small
DISCOUNT _____ IF PAID IN 30 DAYS
net 6518.05

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

ALLIED OIL & GAS SERVICES, LLC 062334

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: McO Lodge

DATE <u>3-1-14</u>	SEC <u>5</u>	TWP <u>23</u>	RANGE <u>29</u>	CALLED OUT <u>1:00 P.M.</u>	ON LOCATION <u>2:30 AM</u>	JOB START <u>4:30</u>	JOB FINISH <u>12:30</u>
LEASE <u>Doll</u>	WELL# <u>1-5</u>	LOCATION <u>Garden City Ki</u>			COUNTY <u>Finney</u>	STATE <u>Ki</u>	
OLD OR NEW (Circle one)			<u>20 E HWY 156 1 1/2 N E into</u>				

CONTRACTOR Val Rig #5 OWNER Vincent Oil Corp

TYPE OF JOB Retail PTA
 HOLE SIZE 7778 I.D. 4707
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 16.6 DEPTH 1810
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

CEMENT AMOUNT ORDERED 230 sk 60/40
4% Gel 1/4" Flossal

EQUIPMENT

PUMP TRUCK	CEMENTER <u>TSEBA</u>
# <u>SSS-SSB</u>	HELPER <u>Scott P</u>
BULK TRUCK	
# <u>BA-SSB</u>	DRIVER <u>James</u>
BULK TRUCK	
# _____	DRIVER _____

COMMON	<u>A</u>	<u>138 sk</u>	@ <u>17.90</u>	<u>2470.20</u>
POZMIX		<u>92 sk</u>	@ <u>9.35</u>	<u>860.20</u>
GEL		<u>8 sk</u>	@ <u>23.40</u>	<u>187.20</u>
CHLORIDE			@ _____	_____
ASC			@ _____	_____
<u>flossal</u>	<u>57.5 #</u>		@ <u>2.97</u>	<u>170.77</u>
			@ _____	_____
			@ _____	_____
			@ _____	_____
			@ _____	_____
			@ _____	_____
			@ _____	_____
HANDLING	<u>247.01</u>		@ <u>2.48</u>	<u>612.59</u>
MILEAGE	<u>10.31/50</u>		@ <u>2.60</u>	<u>1340.86</u>
TOTAL				<u>5641.82</u>

REMARKS: Retail PTA
see log

SERVICE

DEPTH OF JOB	<u>1840'</u>
PUMP TRUCK CHARGE	<u>2749.84</u>
EXTRA FOOTAGE	@ _____
MILEAGE	<u>50</u> @ <u>7.70</u> <u>385.00</u>
MANIFOLD	@ _____
<u>L.U</u>	<u>50</u> @ <u>4.40</u> <u>220.00</u>
	@ _____

CHARGE TO: Vincent Oil Corp
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2854.84

PLUG & FLOAT EQUIPMENT

_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
_____	@ _____	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 8496.66
 DISCOUNT _____ IF PAID IN 30 DAYS
Net 6117.59

PRINTED NAME Andy Brown
 SIGNATURE Andy Brown



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55717

DST#: 1

ATTN: Jim Hall

Test Start: 2014.02.25 @ 06:47:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 12:00:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 75

Interval: 4450.00 ft (KB) To 4472.00 ft (KB) (TVD)

Reference Elevations: 2672.00 ft (KB)

Total Depth: 4472.00 ft (KB) (TVD)

2661.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: psig @ 4454.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.25

End Date:

2014.02.25

Last Calib.:

2014.02.25

Start Time: 06:47:15

End Time:

12:00:45

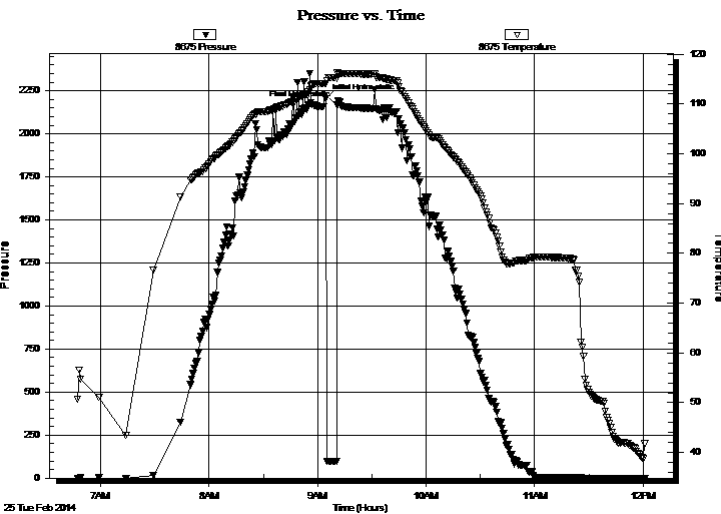
Time On Btm:

2014.02.25 @ 09:04:30

Time Off Btm:

2014.02.25 @ 09:10:45

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.76	114.16	Initial Hydro-static
7	2166.34	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Mud 100m	1.33

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55717

DST#: 1

ATTN: Jim Hall

Test Start: 2014.02.25 @ 06:47:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	Mud 100m	1.333

Total Length: 95.00 ft Total Volume: 1.333 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

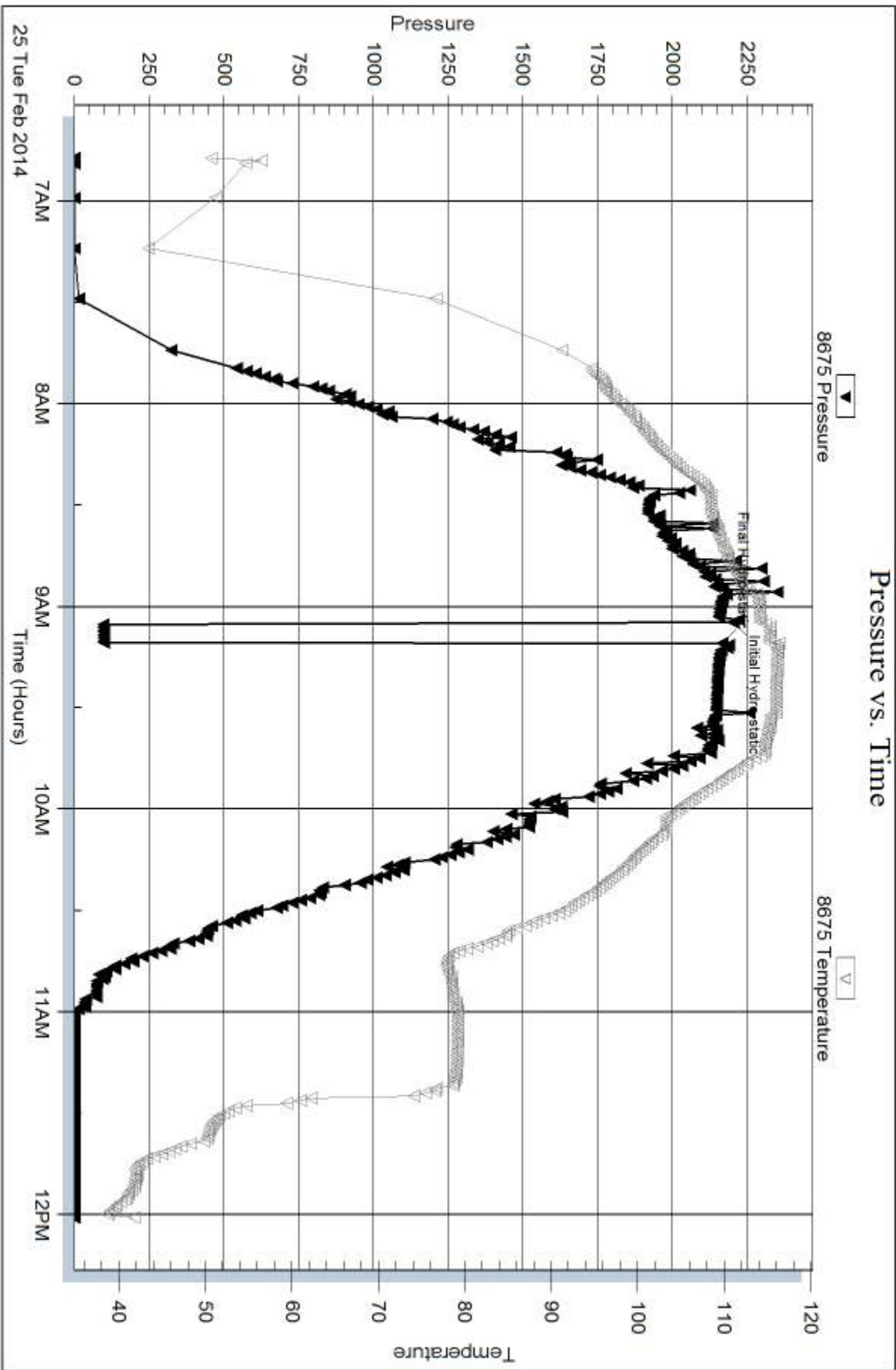
Serial #: 8675

Inside

Vincent Oil Corporation

Well #1-5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 55717

Printed: 2014.02.26 @ 08:43:26



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55718

DST#: 2

ATTN: Jim Hall

Test Start: 2014.02.25 @ 12:20:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:15

Time Test Ended: 22:10:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 75

Interval: 4390.00 ft (KB) To 4472.00 ft (KB) (TVD)

Reference Elevations: 2672.00 ft (KB)

Total Depth: 4472.00 ft (KB) (TVD)

2661.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675 Inside

Press@RunDepth: 169.85 psig @ 4394.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.25

End Date:

2014.02.25

Last Calib.:

2014.02.25

Start Time: 12:20:15

End Time:

22:10:15

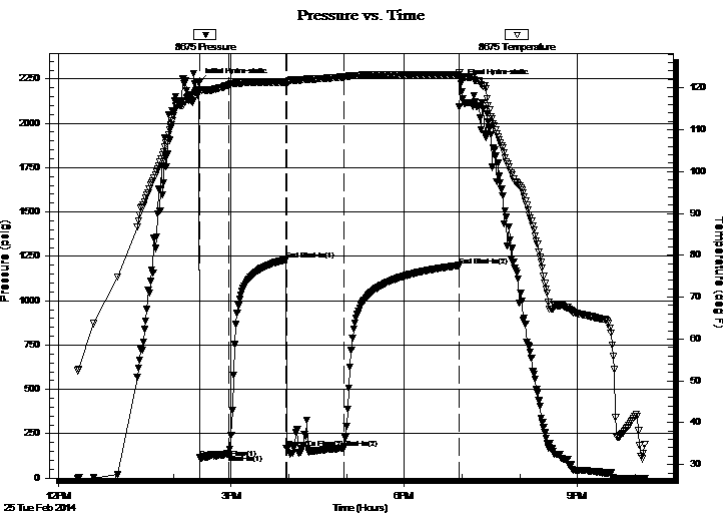
Time On Btm:

2014.02.25 @ 14:26:30

Time Off Btm:

2014.02.25 @ 18:58:45

TEST COMMENT: IF: B.o.b in 10 min.
IS: Bled off in 2 min.-No return
FF: No blow until 15 min.open & Built to B.o.b. 31 min.
FS: Bled off 2 min.-Surface blow back after 5 min. into shut in-Died in 5min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.81	119.45	Initial Hydro-static
1	113.62	119.55	Open To Flow (1)
31	133.87	120.69	Shut-In(1)
91	1232.21	121.31	End Shut-In(1)
91	167.33	120.79	Open To Flow (2)
151	169.85	122.58	Shut-In(2)
271	1199.08	123.10	End Shut-In(2)
273	2225.67	122.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	Gocm 10g 15o 75m	1.77
126.00	Gocm 10 20o 70m	1.77
2.00	Cgo 10g 90o	0.03

* 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 Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55718

DST#: 2

ATTN: Jim Hall

Test Start: 2014.02.25 @ 12:20:00

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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.73 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	Gocm 10g 15o 75m	1.767
126.00	Gocm 10 20o 70m	1.767
2.00	Cgo 10g 90o	0.028

Total Length: 254.00 ft Total Volume: 3.562 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

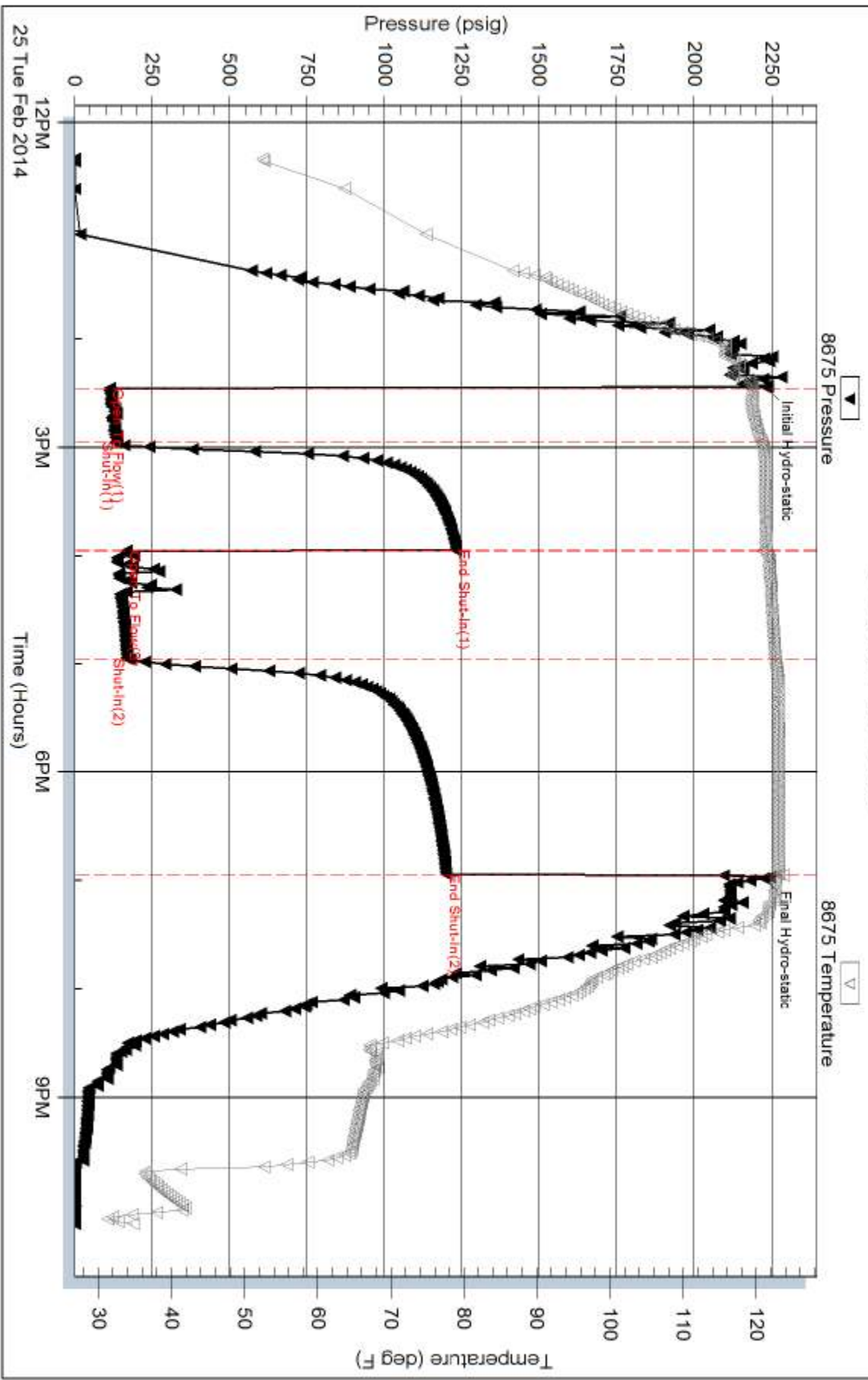
Inside

Vincent Oil Corporation

Well #1-5

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 55718

Printed: 2014.02.26 @ 08:42:13



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55719

DST#: 3

ATTN: Jim Hall

Test Start: 2014.02.27 @ 02:22:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:15

Time Test Ended: 10:24:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 75

Interval: 4570.00 ft (KB) To 4616.00 ft (KB) (TVD)

Reference Elevations: 2672.00 ft (KB)

Total Depth: 4616.00 ft (KB) (TVD)

2661.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 24.28 psig @ 4572.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.27 End Date: 2014.02.27

Last Calib.: 2014.02.27

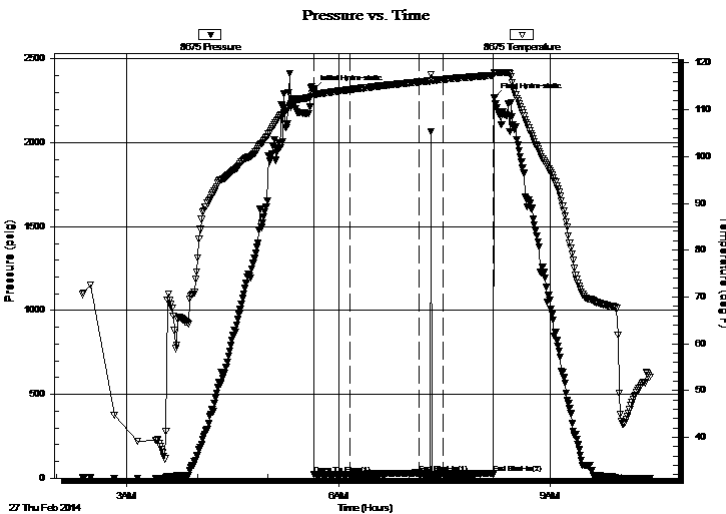
Start Time: 02:22:15 End Time: 10:24:30

Time On Btm: 2014.02.27 @ 05:38:45

Time Off Btm: 2014.02.27 @ 08:12:15

TEST COMMENT: IF: Weak surface blow after 12 min. open-Died in 5 min.
IS: No return
FF: No blow -Flushed tool-Good surge-Flushed 10 min. into open
FS: No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.69	113.74	Initial Hydro-static
1	20.97	113.10	Open To Flow (1)
31	22.38	114.31	Shut-In(1)
90	30.68	115.93	End Shut-In(1)
90	21.29	115.94	Open To Flow (2)
110	24.28	116.48	Shut-In(2)
152	28.67	117.34	End Shut-In(2)
154	2268.73	117.97	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
2.00	Mud w /trace of oil	0.03

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55719

DST#: 3

ATTN: Jim Hall

Test Start: 2014.02.27 @ 02:22:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud w /trace of oil	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

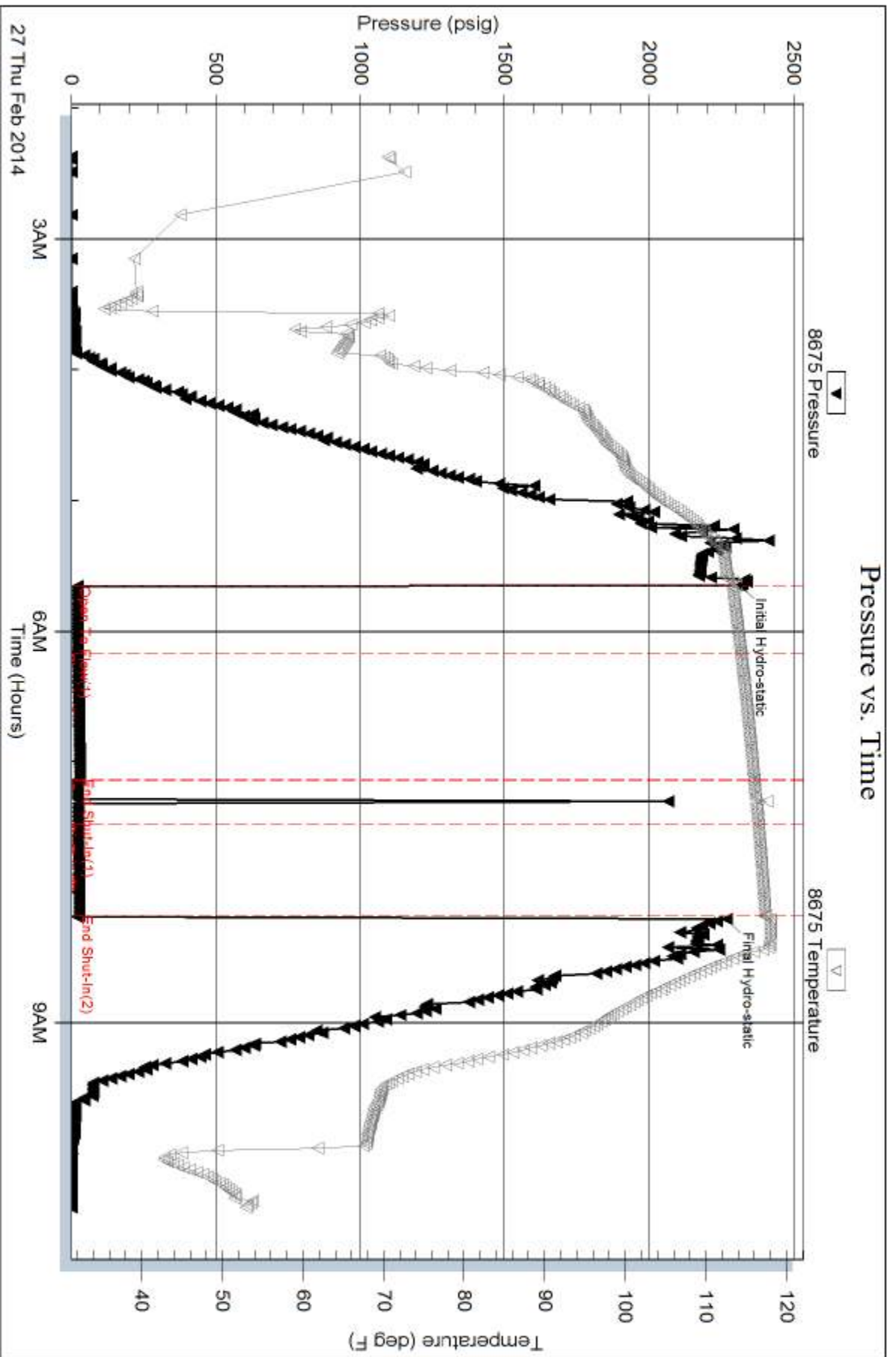
Serial #: 8675

Inside

Vincent Oil Corporation

Well #1-5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 55719

Printed: 2014.02.27 @ 10:51:44



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55720

DST#: 4

ATTN: Jim Hall

Test Start: 2014.02.28 @ 13:20:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:34:45

Time Test Ended: 21:49:00

Test Type: Conventional Straddle (Reset)

Tester: Cornelio Landa III

Unit No: 75

Interval: 4445.00 ft (KB) To 4490.00 ft (KB) (TVD)

Reference Elevations: 2672.00 ft (KB)

Total Depth: 4709.00 ft (KB) (TVD)

2661.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press @ Run Depth: 156.57 psig @ 4446.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.02.28

End Date: 2014.02.28

Last Calib.: 2014.02.28

Start Time: 13:20:15

End Time: 21:49:00

Time On Btm: 2014.02.28 @ 15:33:45

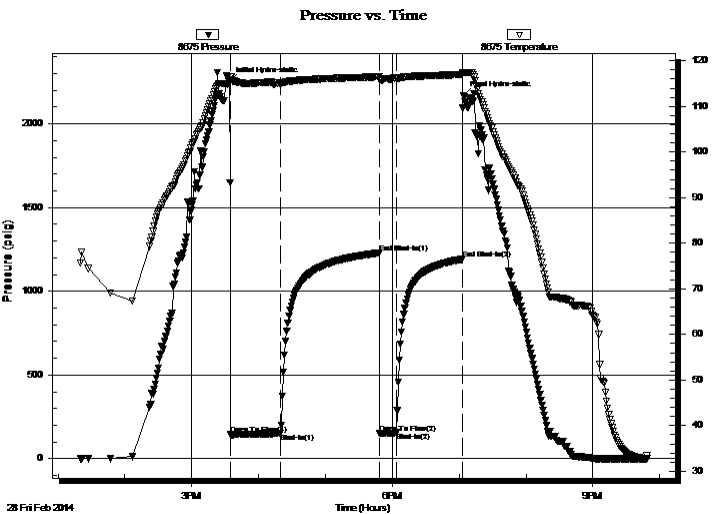
Time Off Btm: 2014.02.28 @ 19:03:45

TEST COMMENT: IF: B.o.b. in 55 seconds-Died back to 8 1/2 in. of blow

IS: Bled off in 1 1/2 min.-No return

FF: No blow

FS: No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.41	115.05	Initial Hydro-static
1	144.16	116.40	Open To Flow (1)
46	151.18	115.10	Shut-In(1)
135	1229.07	116.50	End Shut-In(1)
135	151.05	115.75	Open To Flow (2)
150	156.57	116.08	Shut-In(2)
210	1192.08	116.96	End Shut-In(2)
210	2169.60	117.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	Mud 100m	3.65

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

5-23s-29w-Finney Co, KS

155 N. Market Ste. #700
Wichita, KS 67202

Doll #1-5

Job Ticket: 55720

DST#: 4

ATTN: Jim Hall

Test Start: 2014.02.28 @ 13:20:00

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: 49.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 1900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
260.00	Mud 100m	3.647

Total Length: 260.00 ft Total Volume: 3.647 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

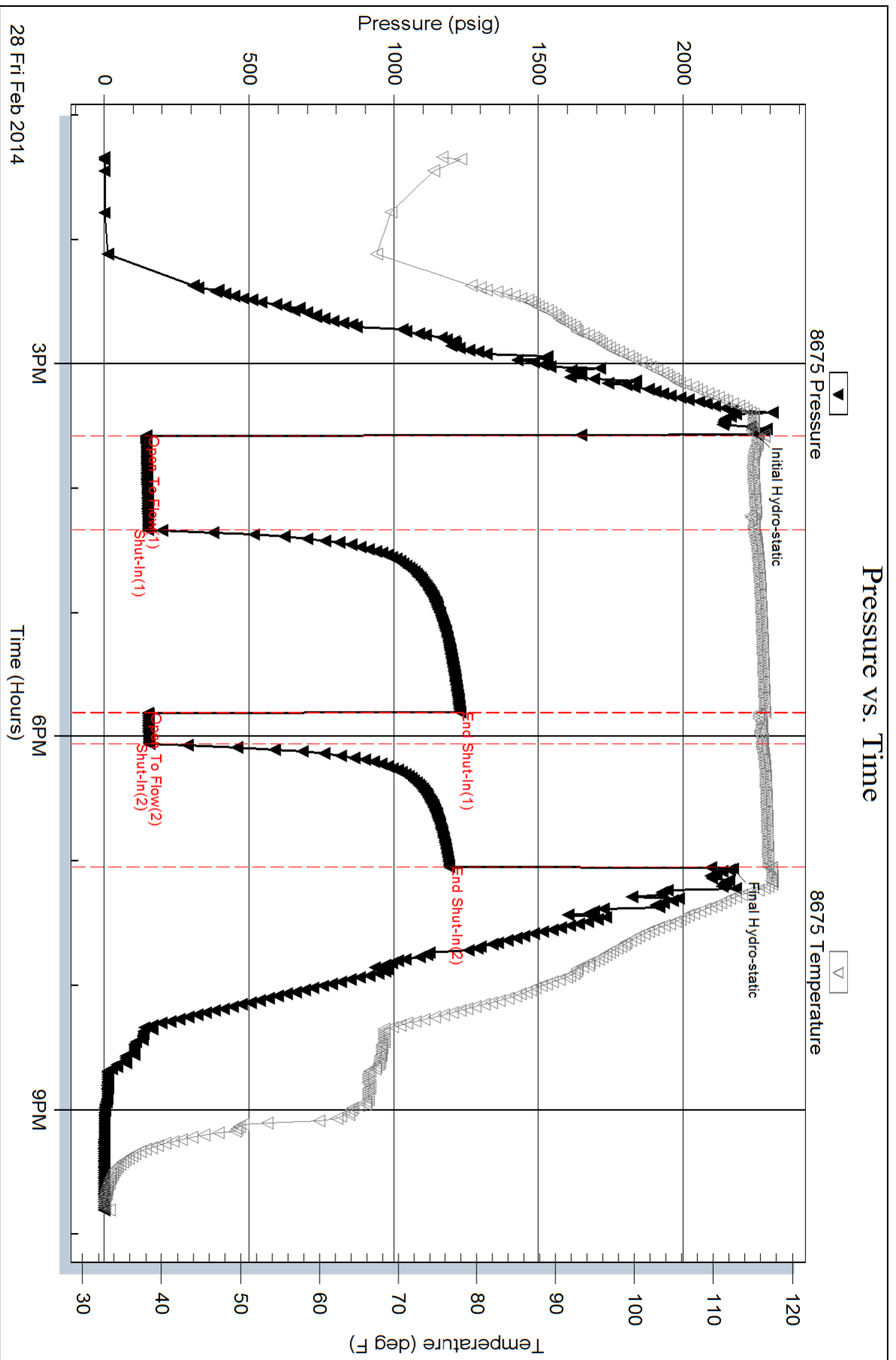
Inside

Vincent Oil Corporation

Doll #1-5

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55720

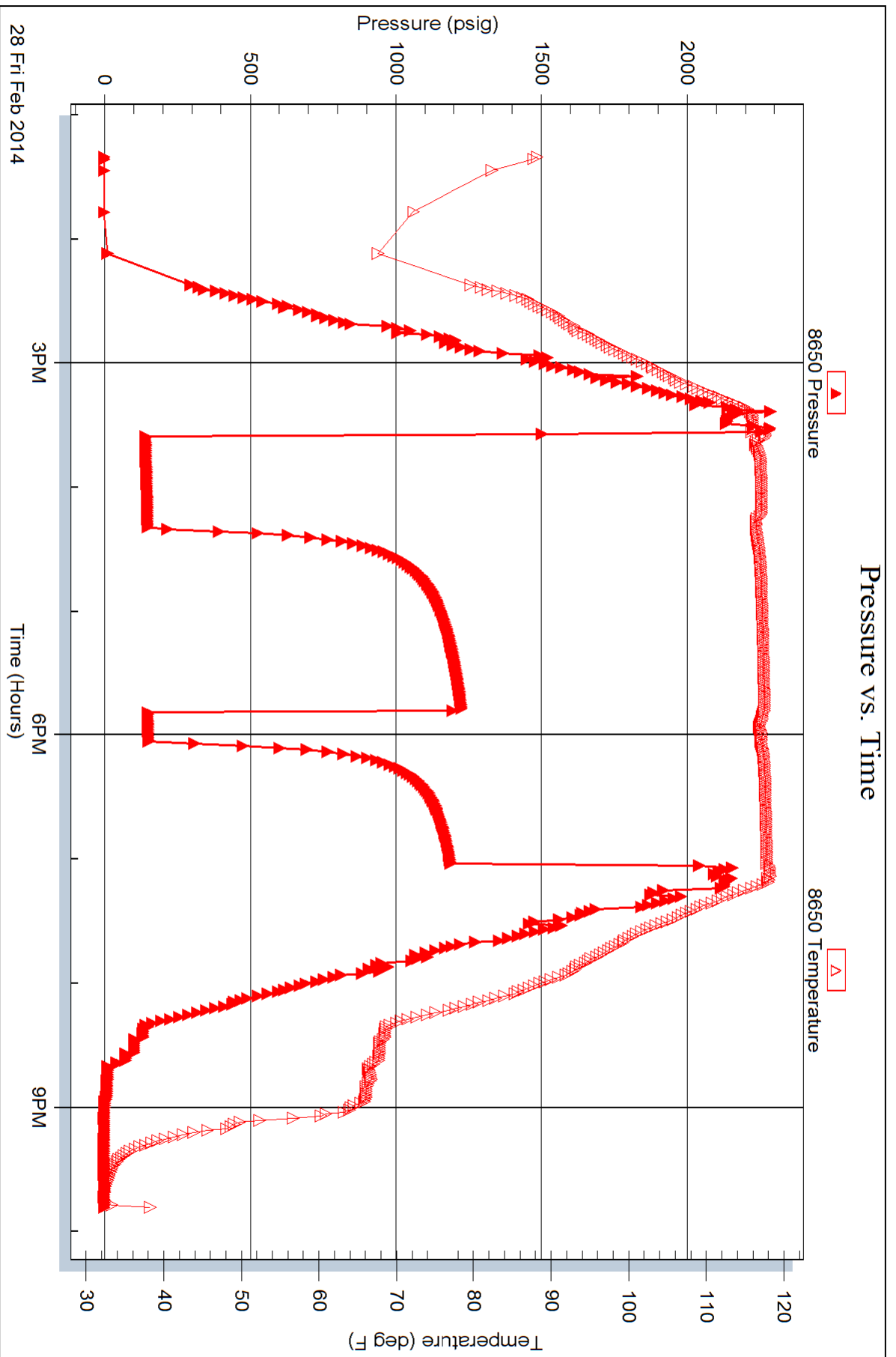
Printed: 2014.02.28 @ 22:24:41

Serial #: 8650

Outside Vincent Oil Corporation

Doll #1-5

DST Test Number: 4

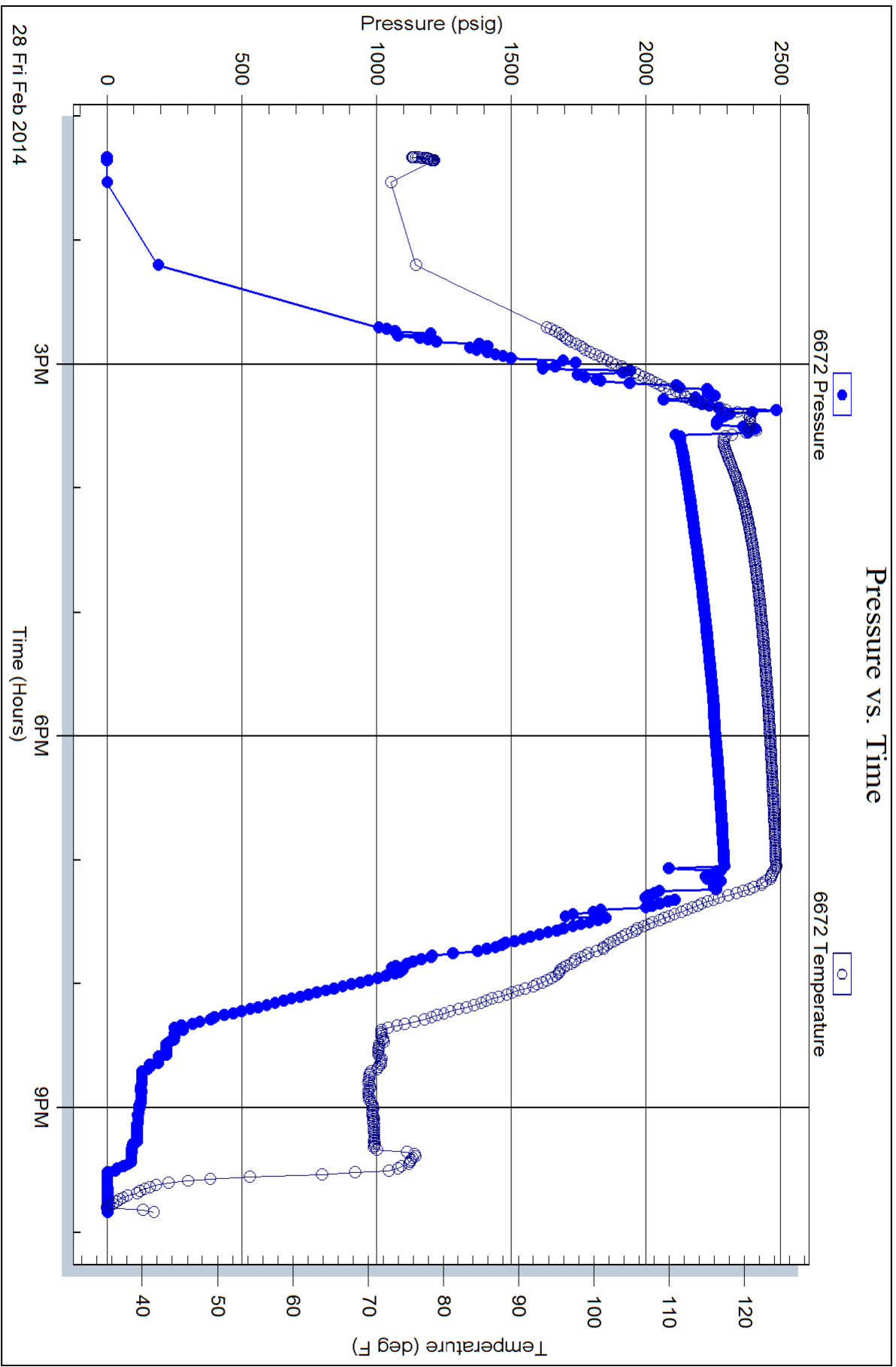


Serial #: 6672

Below (Straddell) Oil Corporation

Doll #1-5

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 55720

Printed: 2014.02.28 @ 22:24:41

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: VINCENT OIL CORP. DOLL #1-5
Location: SE NE NW SW SEC. 5-T23S-R29W, FINNEY CO. KANSAS
License Number: 15-055-22281-00-00
Spud Date: 2/17/14
Surface Coordinates: 2,300' FSL, 1,219' FWL
Region: WILDCAT
Drilling Completed: 2/27/14

Bottom Hole Coordinates:

Ground Elevation (ft): 2,661' K.B. Elevation (ft): 2,672'
Logged Interval (ft): 3,700' To: 4,706' Total Depth (ft): 4,706'
Formation: RTD IN THE MISSISSIPPI
Type of Drilling Fluid: NATIVE MUD TO 3,556'. 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: VAL ENERGY, Rig #5, Tool Pusher: Randy Smith.

Surface Casing: 8 5/8" set at 452' w/210sx, cement did circulate.

Daily Activity & (06:30):

2/17/14; move on and spud.

2/18/14; drilling 12 1/4' hole at 310'.

2/19/14; drilling 7 7/8" hole at 795'.

2/20/14; drilling at 1,855'.

2/21/14; drilling at 2,650'.

2/22/14; drilling at 3,240'.

2/23/14; drilling at 3,860', displaced mud system @ 3,556'.

2/24/14; drilling at 4,350', company time spent circulating (2.25hrs.).

2/25/14; 4,472'; running DST #1 Pawnee, new bit trip @ 4,380', & ran survey 1.75 deg. Est. Co. time last 24hrs. (5.75hrs.).

2/26/14; drilling at 4,500', ran DST #1 Pawnee 4,450'-4,472' (misrun). DST #2 Pawnee 4,390' - 4,472'. est. company time spent circulating and two DST's last 24hrs. :(21.75hrs.).

2/27/14; 4,616' running DST #3 Mrw. Sand, company time spent circulating and testing the last 24hrs.; (13.75hrs.).

2/28/14; 4,706' running open hole logs, total company time circulating, logging and finishing DST #3; (17hrs.)

3/1/14; 4,709' log depth, DST #4 (Straddle) 4,445' - 4,490' (45') with 219' tail pipe, P&A orders given @ 22:30hrs

2/28/24, total company to P&A orders; (16hrs.).

Well Status: P&A.

Deviation Surveys: 1.75 @ 465', 1.75 @ 4,380', 0.75 @ 4,706'.

Bit Record:

#1 12 1/4" out @ 465'.

#2 7 7/8" JZ HA20Q in @ 465', out @ 4,380', made 3,915' in 114 hrs.

#3 7 7/8" RR JZ HF41BM in @ 4,380', out @ 4,706', made 326' in 25.5 hrs.

Drilling time commenced: @ 3,700'. Minimum 10' wet and dry samples commenced: @ 3,750' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem Labs, digital unit #0259.

Tester; Trilobite Hays Kansas. Tester; Cornelio (Scott City Office).

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,556', Mud Engineer: Justin Whiting (Dodge City)

Open Hole Logs: Nabors Completion & Production, Hays Kansas, Logging Engineer: Ian Mabb.
DIL, CDL/CNL/PE, MEL/SON.

Note: A shift of approximately 3' deeper, should be made to correlate with the open hole logs.

Sample tops are placed on this strip log, with the reference wells "A" Vincent Pianalto #1-5, NE/4 5-T23S-R29W, and "B" Vincent Thiessen Trust #1-4, NW/4 4-T23S-R29W, with E-log tops datum differences are shown.

DSTs

DST #1 (Pawnee); 4,450' - 4,472' (22'), IF; Packer failure; Rec; 95' mud.

DST #2 (Pawnee); 4,390' - 4,472' (82'), 30-60-60-120, IH 2230, IF 114-134 (BOB 10min), ISI 1232 (no blow), FF 167-170 (no blow for 15min, then BOB 31min-charts indicate plugging), FSI 1199 (weak blow, dead in 5min), FH 2226, Rec; 126' GOCM (10%gas, 15%oil, 75%mud), 126' GOCM (10%gas, 20%oil, 70%mud), 2' CGO (10%gas, 90%oil), BHT 123 F.

DST #3 (Mrw. Sand), 4,570'-4,616 (46'), IH 2315, IF 21-22 (weak blow after 12min then dead again in 5min), ISI 31 (no blow), FF 21-24 (dead, flush tool good surge,still dead after flush), FSI 29 (no blow), FH 2269, Rec; 2' mud with trace of oil., BHT 118 F.

DST #4 (Pawnee) 4,445' - 4,490' (45') StraddleTest with 219' of tail pipe; 45-90-15-60, IH 2250, IF 144-151 (BOB 55sec. then died back to 8.5"), ISI 1229 (no blow), FF 151-157 (no blow), FSI 1192 (no blow), FH 2170, Rec; 260'mud. BHT 117F



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market Ste. #700
Wichita, KS 67202
ATTN: Jim Hall

5-23s-29w-Finney Co, KS

Doll #1-5

Job Ticket: 55717

DST#: 1

Test Start: 2014.02.25 @ 06:47:00

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 12:00:45

Interval: **4450.00 ft (KB) To 4472.00 ft (KB) (TVD)**

Total Depth: **4472.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III

Unit No: 75

Reference Elevations: **2672.00 ft (KB)**

2661.00 ft (CF)

KB to GR/CF: **11.00 ft**

Serial #: 8675 Inside

Press@RunDepth: psig @ **4454.00 ft (KB)**

Start Date: **2014.02.25**

End Date:

2014.02.25

Capacity: **8000.00 psig**

Last Calib.: **2014.02.25**

Start Time: **06:47:15**

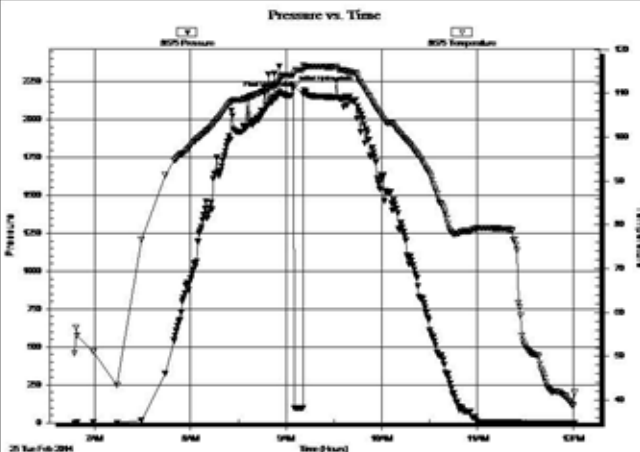
End Time:

12:00:45

Time On Btm: **2014.02.25 @ 09:04:30**

Time Off Btm: **2014.02.25 @ 09:10:45**

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2202.76	114.16	Initial Hydro-static
7	2166.34	116.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	Mud 100m	1.33

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 155 N. Market Ste. #700
 Wichita, KS 67202
 ATTN: Jim Hall

5-23s-29w-Finney Co, KS
Doll #1-5
 Job Ticket: 55718 **DST#: 2**
 Test Start: 2014.02.25 @ 12:20:00

GENERAL INFORMATION:

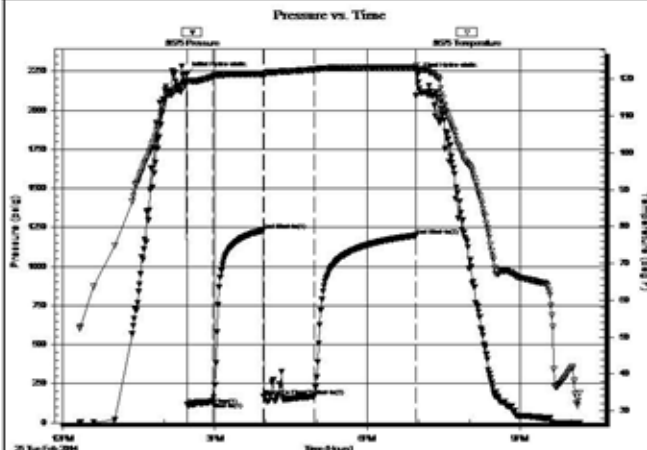
Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:27:15 Tester: Cornelio Landa III
 Time Test Ended: 22:10:15 Unit No: 75
 Interval: 4390.00 ft (KB) To 4472.00 ft (KB) (TVD) Reference Elevations: 2672.00 ft (KB)
 Total Depth: 4472.00 ft (KB) (TVD) 2661.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 169.85 psig @ 4394.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.02.25 End Date: 2014.02.25 Last Calib.: 2014.02.25
 Start Time: 12:20:15 End Time: 22:10:15 Time On Btm: 2014.02.25 @ 14:26:30
 Time Off Btm: 2014.02.25 @ 18:58:45

TEST COMMENT: IF: B.o.b in 10 min.
 IS: Bled off in 2 min.-No return
 FF: No blow until 15 min.open & Built to B.o.b. 31 min.
 FS: Bled off 2 min.-Surface blow back after 5 min. into shut in-Died in 5mn.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2229.81	119.45	Initial Hydro-static
1	113.62	119.55	Open To Flow (1)
31	133.87	120.69	Shut-in(1)
91	1232.21	121.31	End Shut-in(1)
91	167.33	120.79	Open To Flow (2)
151	169.85	122.58	Shut-in(2)
271	1199.08	123.10	End Shut-in(2)
273	2225.67	122.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	Gocm 10g 15o 75m	1.77
126.00	Gocm 10 20o 70m	1.77
2.00	Cgo 10g 90o	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market Ste. #700
Wichita, KS 67202
ATTN: Jim Hall

5-23s-29w-Finney Co, KS

Doll #1-5

Job Ticket: 55719

DST#: 3

Test Start: 2014.02.27 @ 02:22:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:15

Time Test Ended: 10:24:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III

Unit No: 75

Interval: 4570.00 ft (KB) To 4616.00 ft (KB) (TVD)

Total Depth: 4616.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2672.00 ft (KB)

2661.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 24.28 psig @ 4572.00 ft (KB)

Start Date: 2014.02.27

End Date: 2014.02.27

Start Time: 02:22:15

End Time: 10:24:30

Capacity: 8000.00 psig

Last Calib.: 2014.02.27

Time On Btm: 2014.02.27 @ 05:38:45

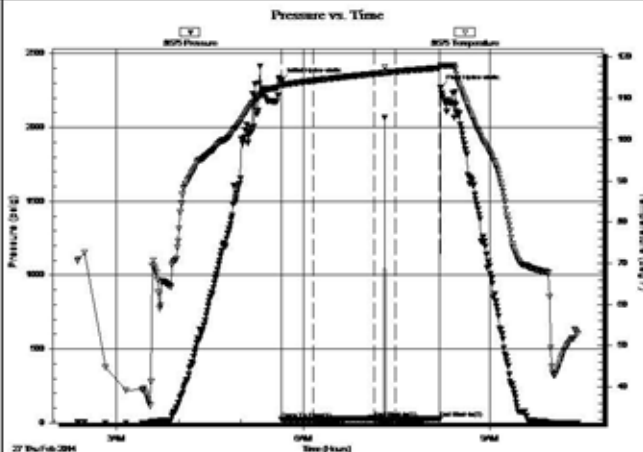
Time Off Btm: 2014.02.27 @ 08:12:15

TEST COMMENT: IF: Weak surface blow after 12 min. open-Died in 5 min.

IS: No return

FF: No blow -Flushed tool-Good surge-Flushed 10 min. into open

FS: No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2314.69	113.74	Initial Hydro-static
1	20.97	113.10	Open To Flow (1)
31	22.38	114.31	Shut-In(1)
90	30.68	115.93	End Shut-In(1)
90	21.29	115.94	Open To Flow (2)
110	24.28	116.48	Shut-In(2)
152	28.67	117.34	End Shut-In(2)
154	2268.73	117.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud w/trace of oil	0.03

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corporation
155 N. Market Ste. #700
Wichita, KS 67202
ATTN: Jim Hall

5-23s-29w-Finney Co, KS
Doll #1-5
Job Ticket: 55720 **DST#:4**
Test Start: 2014.02.28 @ 13:20:00

GENERAL INFORMATION:

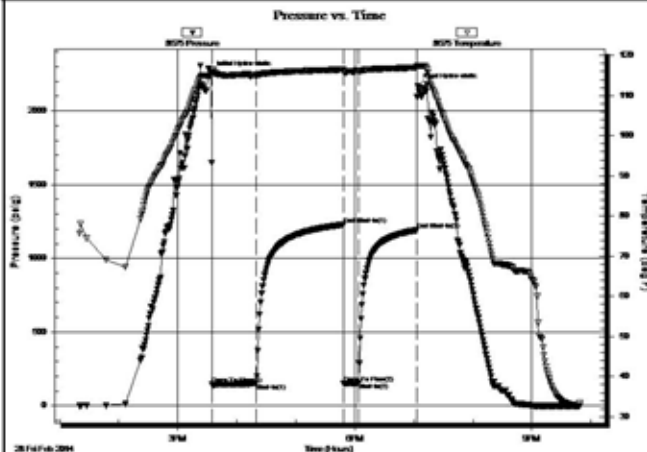
Formation: **Pawnee**
Deviated: No Whipstock ft (KB)
Time Tool Opened: 15:34:45
Time Test Ended: 21:49:00
Test Type: Conventional Straddle (Reset)
Tester: Cornelio Landa III
Unit No: 75
Interval: **4445.00 ft (KB) To 4490.00 ft (KB) (TVD)**
Reference Elevations: 2672.00 ft (KB)
Total Depth: 4709.00 ft (KB) (TVD) 2661.00 ft (CF)
Hole Diameter: 7.88 inches-Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8675

Inside

Press@RunDepth: 156.57 psig @ 4446.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.02.28 End Date: 2014.02.28 Last Calib.: 2014.02.28
Start Time: 13:20:15 End Time: 21:49:00 Time On Btm: 2014.02.28 @ 15:33:45
Time Off Btm: 2014.02.28 @ 19:03:45

TEST COMMENT: IF: B.o.b. in 55 seconds-Died back to 8 1/2 in. of blow
IS: Bled off in 1 1/2 min.-No return
FF: No blow
FSI: No return



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.41	115.05	Initial Hydro-static
1	144.16	116.40	Open To Flow (1)
46	151.18	115.10	Shut-In(1)
135	1229.07	116.50	End Shut-In(1)
135	151.05	115.75	Open To Flow (2)
150	156.57	116.08	Shut-In(2)
210	1192.08	116.96	End Shut-In(2)
210	2169.60	117.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
260.00	Mud 100m	3.65

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

WELL SITE OPERATIONS / JIM HALL SUPERVISOR

OPERATOR:

Vincent Oil Corp.

WELL REFERENCE SHEET

SUBJECT WELL:

Doll #1-5

SUBJECT WELL LOCATION:

SE NE NW SW 5-T23S-R29W

SUBJECT WELL DATUM:

2,672

REF. WELL 'A' Vincent Pianalto 1-5 NE/4 5-T23S-R29W **DATUM:** **2,656**

REF. WELL 'B' Vincent Thiessen Trust 1-4 NW/4 4-23-29 **DATUM:** **2,671**

OPEN HOLE LOG TOPS

**SUBJECT WELL:
ZONE**

WELL 'A'

WELL 'B'

	DEPTH	DATUM	DEPTH	DATUM	REF.	DEPTH	DATUM	REF.	
HEEB.	3,878	-1,206	3,881	-1,225		19	3,886	-1,215	9
Brown Ls.	3,954	-1,282	3,953	-1,297		15	3,961	-1,290	12
Lansing	3,962	-1,290	3,959	-1,303		13	3,969	-1,298	8
Stark Sh	4,282	-1,610	4,284	-1,628		18	4,275	-1,604	-6
Hushp. Sh	4,320	-1,648	4,323	-1,667		19	4,313	-1,642	-6
Marmaton	4,382	-1,710	4,385	-1,729		19	4,374	-1,703	-7
PAWNEE	4,463	-1,791	4,469	-1,813		22	4,456	-1,785	-6
Labette Sh	4,480	-1,808	4,487	-1,831		23	4,475	-1,804	-4
CKE Sh	4,496	-1,824	4,506	-1,850		26	4,494	-1,823	-1
2nd CKE	4,526	-1,854	4,535	-1,879		25	4,522	-1,851	-3
B/Penn.	4,587	-1,915	4,599	-1,943		28	4,584	-1,913	-3
SAND	4,591	-1,919	4,615	-1,959		40	4,600	-1,929	10
ChertCong									
MISS.	4,604	-1,932	4,633	-1,977		45	4,618	-1,947	15
1st Por.			4,660	-2,004			4,684	-2,013	
Spergen			4,771	-2,115			4,712	-2,041	

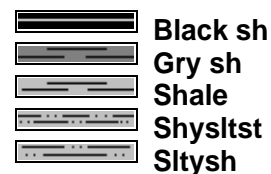
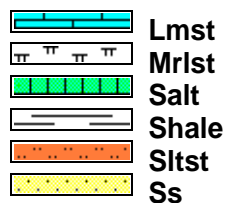
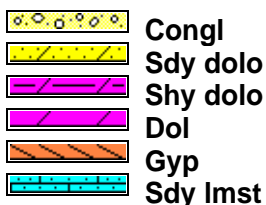
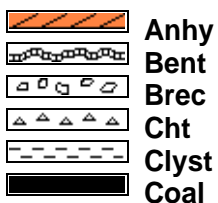
Qualifiers

CARBONATE CLASSIFICATION:

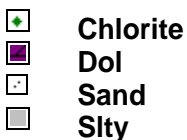
AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **GRAINSTONE;** 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); Rare = less than 1% of sample total, Trace = less than 5% of sample total, 5% or greater = estimate of total percentage.

ROCK TYPES



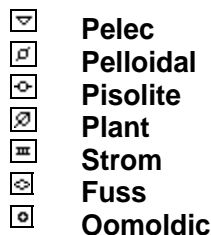
MINERAL



FOSSIL



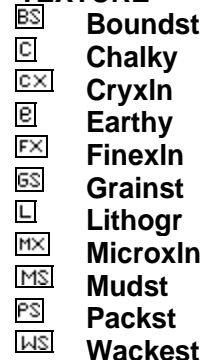
ACCESSORIES



STRINGER



TEXTURE



Curve Track 1

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

TG, C1-C5

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

Depth

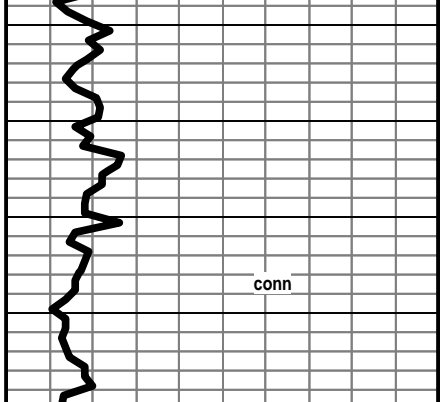
Porosity Type

Lithology

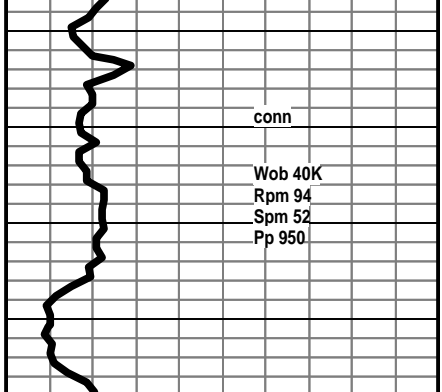
Oil Shows

Geological Descriptions

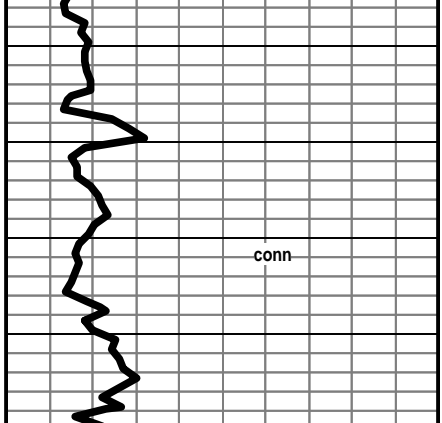
0 ROP (min/ft) 10
 0 Gamma (API) 150
 6 Caliper (API) 16



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

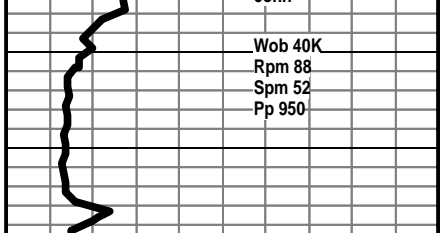


0 ROP (min/ft) 10
 0 Gamma (API) 150
 6 Caliper (API) 16



8.8, 50

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

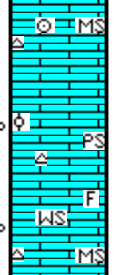


3556

3600

3650

3700



DISPLACE NATIVE MUD WITH CHEMICAL GEL. SYSTEM @ 3,556'

JIM HALL ON LOCATION 2/22/14, @3,600', SET UP AND CHECK MUD LOGGING EQUIPMENT, GAS TEST @ TRAP OK, SET ZERO.

Mudstone; cream to buff, some off white, chalky-soft, crystalline-silky hard, rare crinoid stem and bone white free chert.

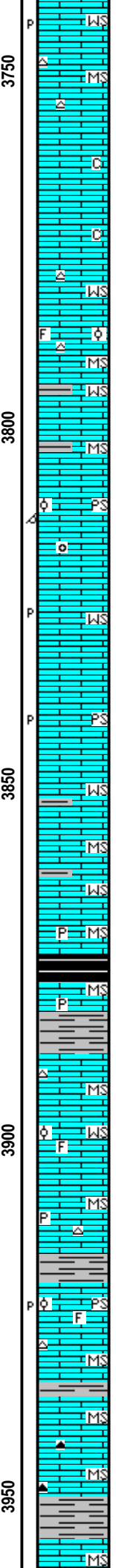
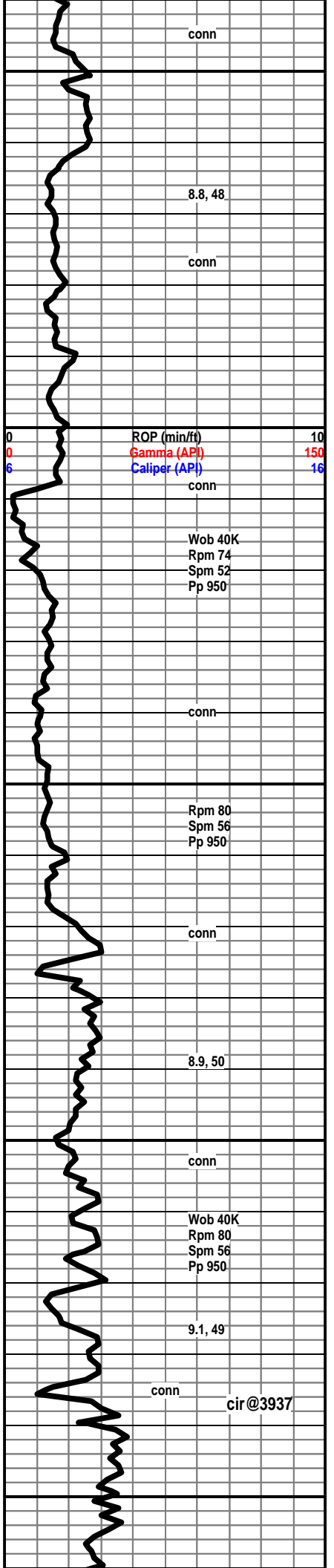
Packstone to Wackestone; cream to tan, micro-fossiliferous to micro-oolitic, chalky matrix, yellow mineral fluorescence, no show, rare barren porosity in dry sample.

10 TG 100 1000

Test Gas At Trap!

Adjust Zero!

1 10 TG 100 1000



Wackestone; light gray, micro-fossiliferous to micro-oolitic, hard, chalky matrix, looks dense in wet, yellow mineral fluorescence, no show, rare off white free chert.

Mudstone; gray, hard, chalky, yellow fluorescence, no show

Mudstone; influx white, very soft, highly chalky, rare light gray to off white free chert.

Wackestone to Packstone; cream to light gray, micro-fossiliferous to micro-oolitic, yellow mineral fluorescence only, no show.

Wackestone to Packstone; light gray, micro-fossiliferous to micro-oolitic, chalky, no show, rare light gray spicular chert.

Mudstone; cream to off white, chalky some very soft, rare black shale, no visible gas.

Packstone; tan to light brown, fine oolitic, to oomoldic, brittle, chalky to crystalline matrix, yellow mineral fluorescence, no show.

Packstone to Wackestone; cream to buff, hard, chalky to crystalline matrix, micro-oolitic to micro-fossiliferous, no show, visible barren porosity in the dry sample.

Wackestone; cream to gray, fossiliferous to micro-oolitic, has yellow mineral fluorescence, no show, rare black and red-brown shale here-no visible gas bubbles in the black shales.

Heebner 3874 (-1202) A +23 B +13

Shale; black, carbonaceous, gassy, soft to hard, first noted in the 3890 sample. Sample lag 38/40min.

Mudstone to Wackestone; light gray, cream to tan, some fossiliferous, chalky, firm to hard, rare pyrite in the matrix, rare red-brown and light gray shale, most black carbonaceous, loss of gassy.

Wackestone; cream to buff, micro-oolitic to micro-fossiliferous, chalky, brittle to firm, rare white free chert, no show.

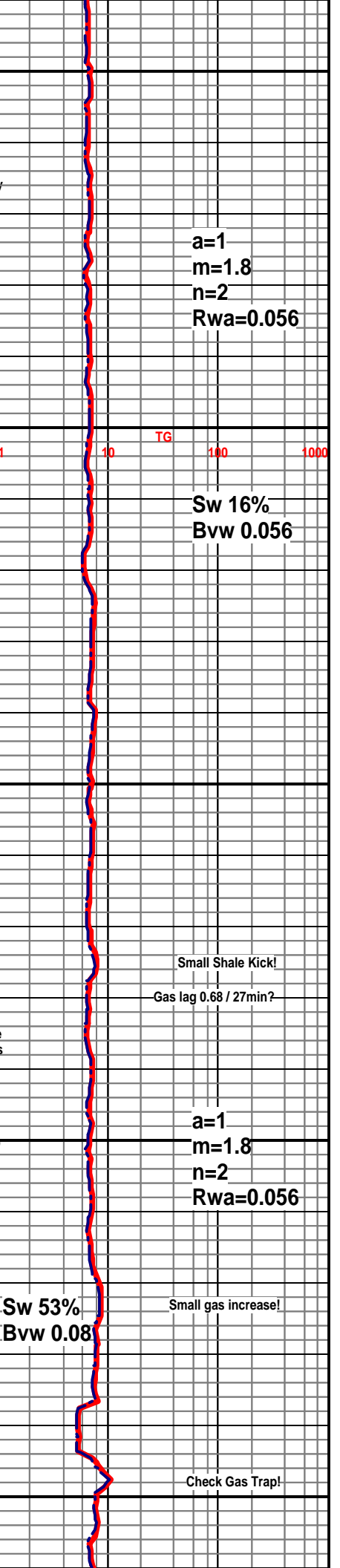
Mudstone; cream to off white, some very soft and chalky, bright yellow fluorescence, no cut, no show.

Packstone; cream to buff and off white, micro-oolitic, to micro-fossiliferous, chalky matrix, hard to brittle, some bright fluorescence-no cut on selected samples, no odor, no show, very small barren porosity in the dry sample.

Mudstone; gray, hard, chalky to crystalline, dense, some blocky, trace free sharp black to dark brown-mottled black chert.

Brown Lime 3947 (-1275) A +22 B +15

Lansing 3955 (-1283) A +20 B +15



a=1
m=1.8
n=2
Rwa=0.056

Sw 16%
Bvw 0.056

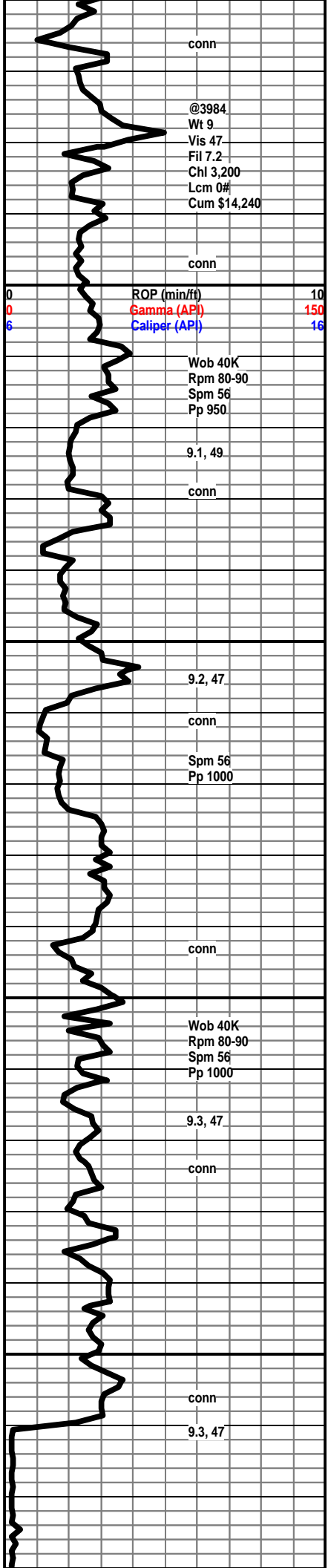
Small Shale Kick!
Gas lag 0.68 / 27min?

a=1
m=1.8
n=2
Rwa=0.056

Sw 53%
Bvw 0.08

Small gas increase!

Check Gas Trap!



@3984
 Wt 9
 Vis 47
 Fil 7.2
 Chl 3,200
 Lcm 0#
 Cum \$14,240

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

Wob 40K
 Rpm 80-90
 Spm 56
 Pp 950

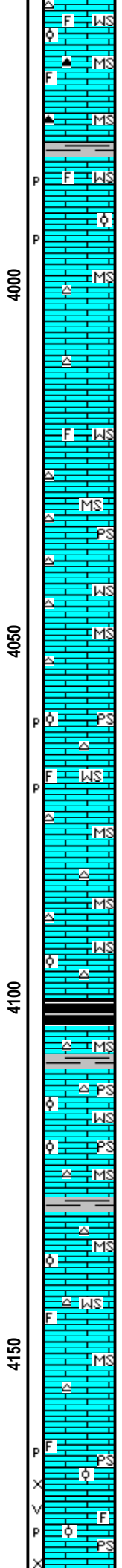
9.1, 49

9.2, 47

Spm 56
 Pp 1000

9.3, 47

9.3, 47



Wackestone to mudstone; cream to off white, brittle to hard, chalky, micro-foss to micro-ool, rare fossil fragments, tight looking, wet, bright yellow fluorescence, but no cut, trace free tan and white chert, some chert inclusions.

Mudstone; cream to tan, crystalline-silky-dense, chalky, trace tan to dark brown free chert.

Wackestone; cream to tan, fossil fragments, tight crystalline looking matrix in wet, yellow mineral fluorescence-no cut, no show, rare barren porosity.

Mudstone; cream to tan, hard to brittle, chalky to crystalline-silky-dense, rare gray chert.

AA; slight increase in off white chert inclusions.

Wackestone; cream, hard to brittle, chalky to crystalline matrix, micro-fossiliferous, mineral fluorescence, no cut, no show, free off white chert.

Packstone to Wackestone; cream to tan, occasionally light gray, fossiliferous to fine oolitic, tight look in wet, crystalline to chalky matrix, no show wet, mineral fluorescence only, influx blue-gray fresh free chert here.

Mudstone; cream to buff, hard, chalky, crystalline-dense, 5% white to light gray, blocky chert, some spicular.

Packstone to Wackestone; cream to buff, soft to brittle, chalky matrix, micro-oolitic, micro-fossiliferous, yellow mineral fluorescence, rare spotty stain-no cut, free chert.

Mudstone; cream to brown, chalky to crystalline, cherty as above, slight increase in gray chert here.

Wackestone; cream to buff, chalky, to crystalline matrix, micro-oolitic, mineral fluorescence-no show.

Shale; black, carbonaceous, soft to hard, no visible gas bubbles, arrived in the 4120 sample, sample lag approx. 40min, gas approx. 30-35min.

Packstone; oolitic, most tight crystalline cement, approx. 5% off white to gray free chert as above, no show in Packstone, mineral fluorescence only,

Mudstone; cream to tan and brown-crystalline, most chalky-dull luster, hard to brittle, free chert as above.

Mudstone; to Wackestone; cream to buff and light tan, chalky soft to brittle, crystalline-hard dense, yellow mineral fluorescence, no show, no odor.

Mudstone; cream, to tan, light gray, dense, crystalline to chalky matrix, yellow mineral fluorescence only.

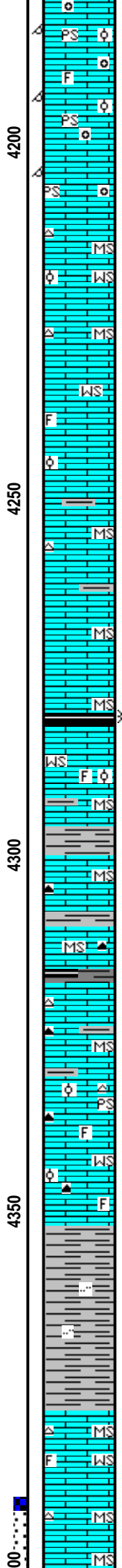
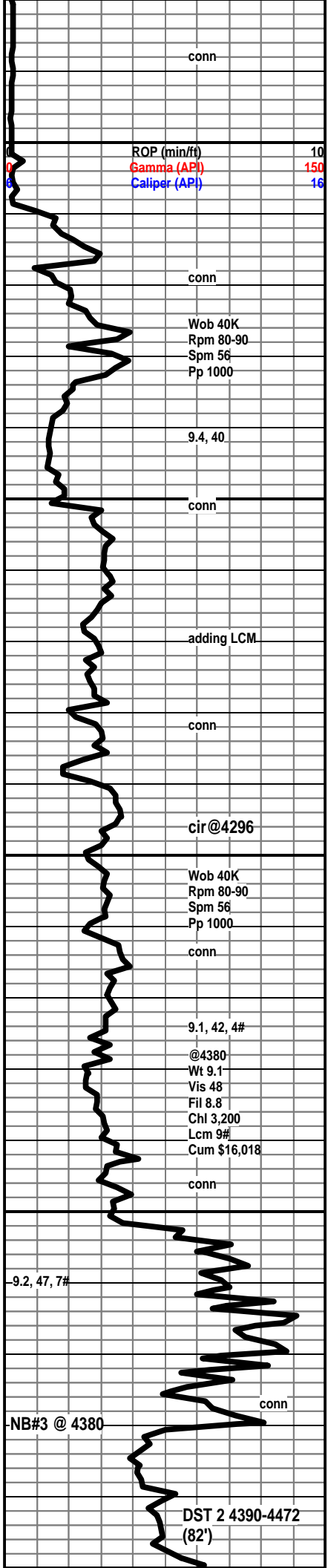
Packstone; cream to tan, med oolites, chalky matrix, firm to brittle, some soft, crystalline matrix is hard and dense, no visible porosity in the wet sample, no cut on selected dull and bright fluorescence, rare free fossil fragments, scattered visible inter oolitic pinpoint porosity and rage vuggy porosity, in the dray sample, no stain, no cut.

1 10 TG 100 1000

10u +4u

a=1
 m=1.8
 n=2
 Rwa=0.05

Sw 8%
 Bvw 0.02



Packstone; tan to cream, occasionally mottled off white, highly oomoldic, yellow mineral fluorescence, no show.

Oomoldic Packstone; as above, no show, hard, as above most with silky crystalline matrix, mineral fluorescence as above.

Mudstone; cream to tan, light brown, hard, chalky to occasionally crystalline-silky texture-dense, free off white chert.

Wackestone; tan to brown, micro-oolitic, no show.

Mudstone; as above, influx, white, very soft-chalky, with bright mineral fluorescence, no show.

Wackestone; cream to buff, rare brown, micro-oolitic, micro-fossiliferous, influx, white very soft chalky Mudstone also here, no show.

Mudstone; light gray, hard to brittle, most chalky matrix, trace shale here, dark gray-soft, free pale blue to light gray chert, no carbonaceous shales and no visible gas bubbles.

Stark Shale; 4278 (-1606) A +22 B -2

Shale; influx black carbonaceous, rare gas when broken, arrival in the 4290 sample

Wackestone; cream to tan, micro-oolitic, tight looking chalky matrix in the wet sample, no visible cut on mineral fluorescence.

Mudstone; cream to buff, some very soft-chalky-white, free pale blue gray chert, slight increase in gray, gray-green shale here-cave?

Hushp. Shale 4317 (-1645) A +22 B -3

Shale; dark gray, pale green-waxy and black.

Mudstone; brown, silky-crystalline, dense, 5% gray to light gray free chert in sample.

Mudstone; cream to buff, tan, hard to brittle, chalky to crystalline matrix, chert as above, some oolitic.

Wackestone; tan, hard, brittle, chalky, micro-fossiliferous, some dark inclusions, spotty bright fluorescence-no cut, increase in dark gray blocky to sharp free chert.

Packstone To Wackestone, increase in med. size oolites in a tight looking matrix, some fossil fragments in the matrix, fluo aa no cut, 5% dark gray blocky chert, slight increase in % of shale here, black, to pale and gray-green, soft to brittle.

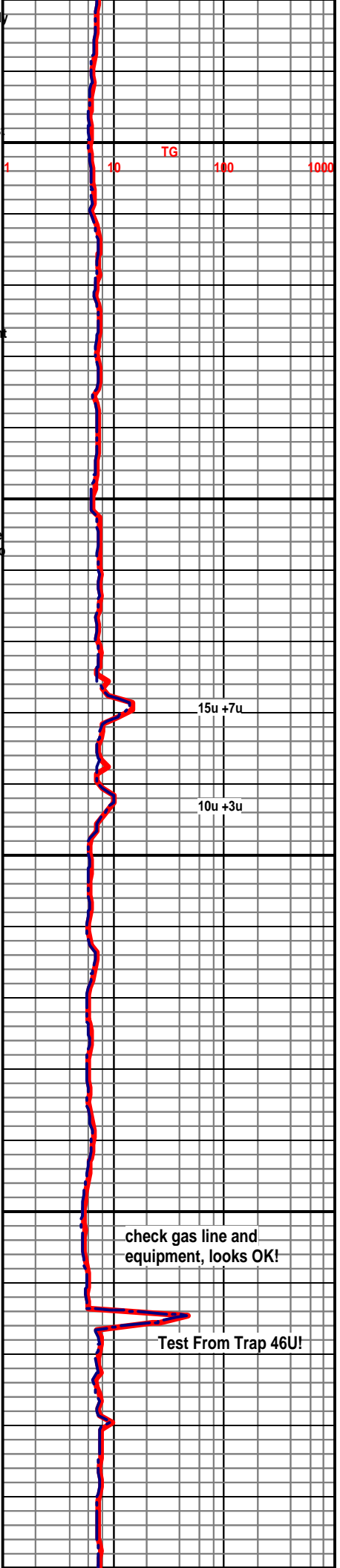
Shale; 10% to 20% of samples; gray, dark gray, pale green, gray-green, soft to brittle, some silty, rare pyrite inclusions, free chert as above, poor sample quality due to slow drilling.

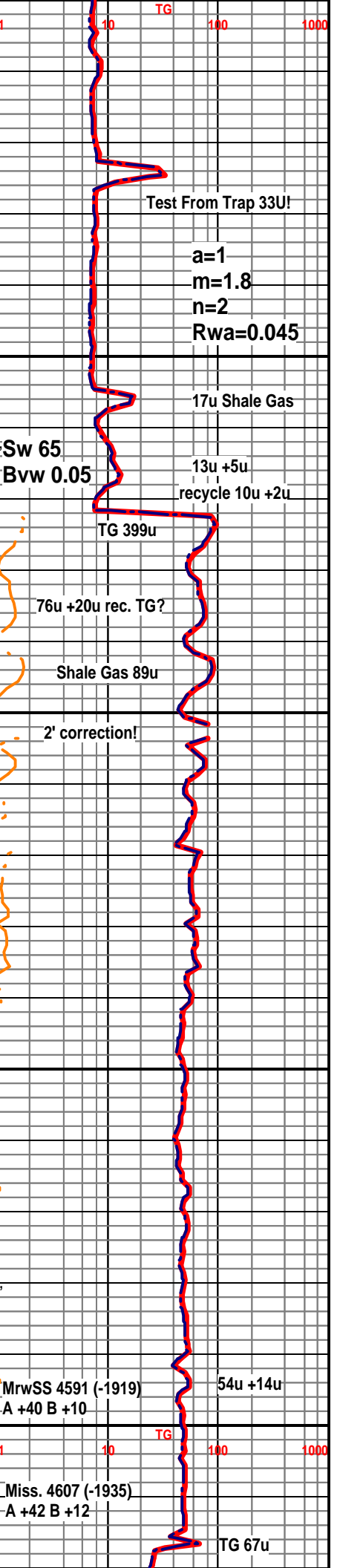
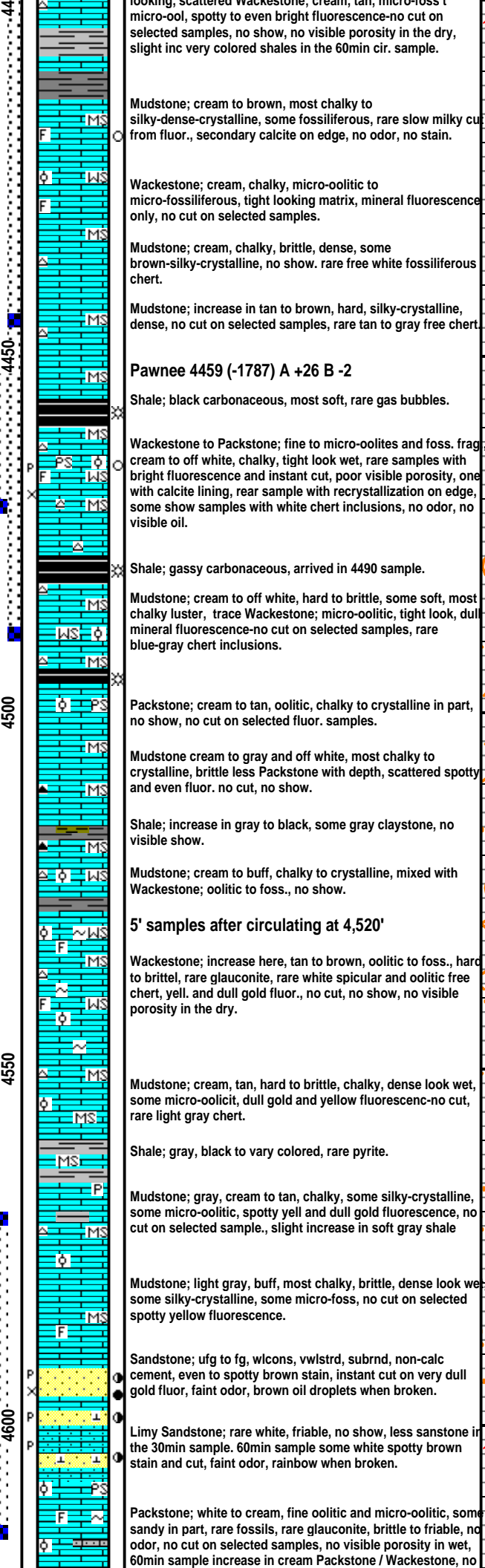
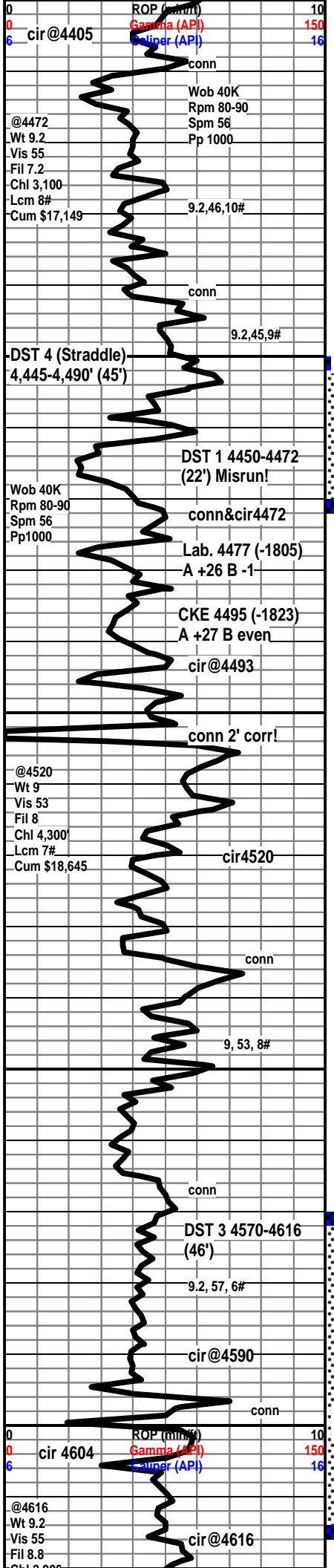
Marmaton 4378 (-1706) A +23 B +3

Mudstone; cream, light gray, tan, chalky-crystalline, dense looking wet, spotty bright fluor. no cut, no show, poor quality after trip!

Wackestone; cream to chalky, fossil fragments, to micro-oolitic, tight look wet, no show, Mudstone; aa rare orange free chert, more even bright fluor-no cut.

Mudstone; influx, gray, chalky to crystalline, some sandy looking, scattered Wackestone; cream, tan, micro-oolitic,





looking; scattered wackestone; cream, tan, micro-foss t
micro-ool, spotty to even bright fluorescence-no cut on
selected samples, no show, no visible porosity in the dry,
slight inc very colored shales in the 60min cir. sample.

Mudstone; cream to brown, most chalky to
silky-dense-crystalline, some fossiliferous, rare slow milky cut
from floor., secondary calcite on edge, no odor, no stain.

Wackestone; cream, chalky, micro-oolitic to
micro-fossiliferous, tight looking matrix, mineral fluorescence
only, no cut on selected samples.

Mudstone; cream, chalky, brittle, dense, some
brown-silky-crystalline, no show. rare free white fossiliferous
chert.

Mudstone; increase in tan to brown, hard, silky-crystalline,
dense, no cut on selected samples, rare tan to gray free chert.

Pawnee 4459 (-1787) A +26 B -2

Shale; black carbonaceous, most soft, rare gas bubbles.

Wackestone to Packstone; fine to micro-oolites and foss. frag
cream to off white, chalky, tight look wet, rare samples with
bright fluorescence and instant cut, poor visible porosity, one
with calcite lining, rear sample with recrystallization on edge,
some show samples with white chert inclusions, no odor, no
visible oil.

Shale; gassy carbonaceous, arrived in 4490 sample.

Mudstone; cream to off white, hard to brittle, some soft, most
chalky luster, trace Wackestone; micro-oolitic, tight look, dull
mineral fluorescence-no cut on selected samples, rare
blue-gray chert inclusions.

Packstone; cream to tan, oolitic, chalky to crystalline in part,
no show, no cut on selected floor. samples.

Mudstone cream to gray and off white, most chalky to
crystalline, brittle less Packstone with depth, scattered spotty
and even floor. no cut, no show.

Shale; increase in gray to black, some gray claystone, no
visible show.

Mudstone; cream to buff, chalky to crystalline, mixed with
Wackestone; oolitic to foss., no show.

5' samples after circulating at 4,520'

Wackestone; increase here, tan to brown, oolitic to foss., hard
to brittle, rare glauconite, rare white spicular and oolitic free
chert, yell. and dull gold floor., no cut, no show, no visible
porosity in the dry.

Mudstone; cream, tan, hard to brittle, chalky, dense look wet,
some micro-oolitic, dull gold and yellow fluorescenc-no cut,
rare light gray chert.

Shale; gray, black to vary colored, rare pyrite.

Mudstone; gray, cream to tan, chalky, some silky-crystalline,
some micro-oolitic, spotty yell and dull gold fluorescence, no
cut on selected sample., slight increase in soft gray shale

Mudstone; light gray, buff, most chalky, brittle, dense look wet,
some silky-crystalline, some micro-foss, no cut on selected
spotty yellow fluorescence.

Sandstone; ufg to fg, wicons, vwstrd, subrnd, non-calc
cement, even to spotty brown stain, instant cut on very dull
gold floor, faint odor, brown oil droplets when broken.

Limy Sandstone; rare white, friable, no show, less sanstone in
the 30min sample. 60min sample some white spotty brown
stain and cut, faint odor, rainbow when broken.

Packstone; white to cream, fine oolitic and micro-oolitic, some
sandy in part, rare fossils, rare glauconite, brittle to friable, no
odor, no cut on selected samples, no visible porosity in wet,
60min sample increase in cream Packstone / Wackestone, no

Test From Trap 33U!

$$a=1$$

$$m=1.8$$

$$n=2$$

$$Rwa=0.045$$

17u Shale Gas

Sw 65
Bv 0.05

13u +5u
recycle 10u +2u

TG 399u

76u +20u rec. TG?

Shale Gas 89u

2' correction!

MrwSS 4591 (-1919)
A +40 B +10

54u +14u

Miss. 4607 (-1935)
A +42 B +12

TG 67u

Chl 2,900
Lcm 6#
Cum \$19,604

conn

9.1, 56, 9#

conn

9.2, 59, 9#

cir@4675

9.2, 57, 9#

conn

9.2+, 59, 9#

@4706
Wt 9.1
Vis 49
Fil 8.4
Chl 1,900
Lcm 7#
Cum \$20,938

RTD 4,706' 2/27/14

OPEN HOLE LOG
TD 4,709'

4650

4700

50



show.

Packstone; most cream-chalky, to occasional tan-crystalline, oolitic to rare visible fossil fragments, most brittle, oolites are fine, occasional medium to also micro-oolitic, rare galuconite approx 5-20% cream to light gray sandy lime-hard, dull min. fluor, no odor, no visible oil, 1 sample chalky mudstone with residual cut-cave.

Packstone to Wackestone; tan to light brown, occ med oolites to smaller and micro-oolites in a silky crystalline looking matrix, rare dark stain-no cut, rare bone white chert.

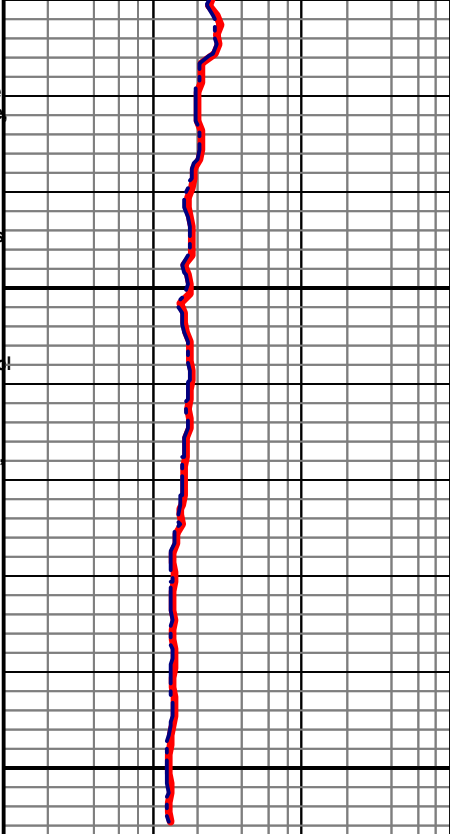
Wackestone to Packstone; AA, small to med oolites to micro-oolites, rare edge stain-no cut, one sample with inter-ool stain-no cut

Wackestone / Packstone; small to micro-oolites in dense looking chalky and crystalline matrix, rare spotty stain-no cut. Mudstone; 10% cream to tan micro-oolitic, dense, no sample show, rare free white, light gray and mottled chert.

Packstone to Wackestone; oolitic as above; slight increase in Mudstone; cream to tan, chalky to crystalline, rare spotty stain-no cut.

Mudstone; tan, hard, dense, some micro-oolitic, silky luster, mixed with oolitic Wackestone, free tan and gray chert.

Mudstone; as above, small increase oolitic Wackestone and Packstone here, free blue mottled chert



Gss Test From Trap After Last Circulated Sample Checked Out OK!