



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1213846  
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: \_\_\_\_\_

1213846

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Frey 1-5
Doc ID	1213846

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Frey 1-5
Doc ID	1213846

Tops

Name	Top	Datum
Heebner Shale	4266	(-1763)
Brown Limestone	4392	(-1889)
Lansing	4400	(-1897)
Stark Shale	4708	(-2205)
Pawnee	4923	(-2420)
Cherokee Shale	4970	(-2467)
Base Penn Limestone	5071	(-2568)
Mississippian	5090	(-2587)



# ALLIED OIL & GAS SERVICES, LLC 062343

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Med Lodge KJ

DATE <u>3-19-14</u>	SEC <u>5</u>	TWP <u>2B</u>	RANGE <u>23</u>	CALLED OUT <u>1:00 P.M</u>	ON LOCATION <u>4:00</u>	JOB START <u>6:50</u>	JOB FINISH <u>8:15</u>
LEASE <u>FREY</u>	WELL # <u>1-5</u>	LOCATION <u>Foot ks N to Sample ed</u>			COUNTY <u>FOEO</u>	STATE <u>KJ</u>	
OLD OR <u>NEW</u> (Circle one)		<u>W to 120 Rd 1 S 1W Ninto</u>					

CONTRACTOR DUKE Pig 1  
 TYPE OF JOB 878 Surface  
 HOLE SIZE 12 1/4 T.D. 645  
 CASING SIZE 878 23" DEPTH 645  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.12  
 CEMENT LEFT IN CSG. 42.12  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 38.6 Bbls H2O

OWNER Vincent Oil Coop  
 CEMENT  
 AMOUNT ORDERED 200 x 65/25 64/22  
30% CC 1/4" CF  
100% A 3/4 CC  
 COMMON Class A 100x @ 17.90 1790.00  
 POZMIX @ \_\_\_\_\_  
 GEL @ \_\_\_\_\_  
 CHLORIDE 4 SK @ 64.00 256.00  
 ASC @ \_\_\_\_\_  
AHW 200 SK @ 16.50 3300.00  
Floecat 50 @ 2.97 148.50  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 HANDLING 336.65 @ 2.48 834.90  
 MILEAGE 502.22 / 2.60 1305.76  
 TOTAL 7635.16

EQUIPMENT  
 PUMP TRUCK CEMENTER T. SEBA  
 # 518-545 HELPER Justin B  
 BULK TRUCK  
 # 331-252 DRIVER Carl R  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

REMARKS:  
Run 15 H's 878 23" csg at 645'  
Baffle Plate 1-ft. 42.12'  
csg on Bottom Hook up to csg Break circ. w/leg  
mix Pump 200 x 65/25 64/22 30% CC 1/4" CF @ 12.5  
mix Pump 100% A 3/4 CC @ 15.6/gal  
Dig 38.6 Bbls H2O  
Good circ. flow JCS  
Call cmt to pt. Thanks Tom Justin Carl

SERVICE  
 DEPTH OF JOB 645'  
 PUMP TRUCK CHARGE 2058.50  
 EXTRA FOOTAGE @ \_\_\_\_\_  
 MILEAGE 35 @ 4.40 154.00  
 MANIFOLD @ \_\_\_\_\_  
LMV 35 @ 7.70 269.50  
 @ \_\_\_\_\_  
 TOTAL 2757.00

CHARGE TO: Vincent Oil Coop  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT  
1- Baffle plate @ 146.00  
1- Rubber plug @ 131.00  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_  
 TOTAL 277.00

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 10,669.16  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
7,952.04

PRINTED NAME Mike Godfrey  
 SIGNATURE Mike Godfrey





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Vincent Oil Corporation  
 155 N Market STE 300  
 Wichita KS, 67202 - 1821  
 ATTN: Jim Hall

**5-28s-23w Ford Co, KS**

**Frey #1-5**

Job Ticket: 56458

**DST#: 1**

Test Start: 2014.03.28 @ 13:00:00

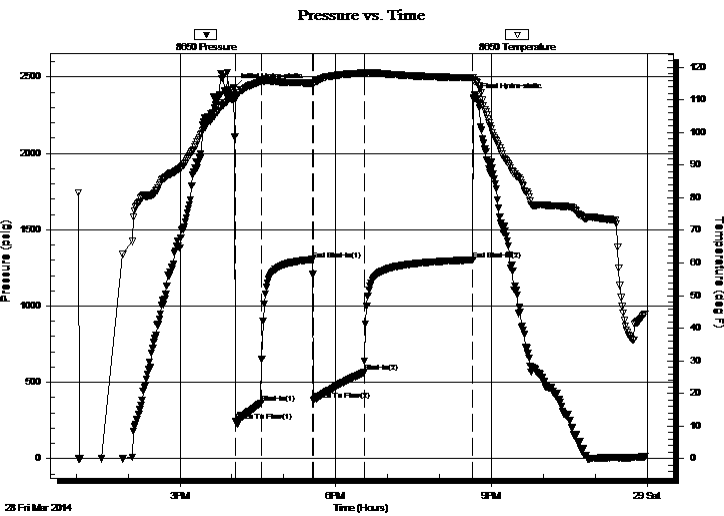
## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:04:15  
 Time Test Ended: 23:57:15  
 Interval: **4912.00 ft (KB) To 4940.00 ft (KB) (TVD)**  
 Total Depth: 4940.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 2503.00 ft (KB)  
 2491.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 8650

Press @ Run Depth: 568.05 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.28 End Date: 2014.03.28 Last Calib.: 2014.03.29  
 Start Time: 13:02:45 End Time: 23:57:15 Time On Btm: 2014.03.28 @ 16:02:45  
 Time Off Btm: 2014.03.28 @ 20:40:00

TEST COMMENT: B.O.B. in 30 sec.  
 Bled off for 5 min. B.O.B. in 17 min.  
 B.O.B. in 8 min.  
 Bled off for 5 min. B.O.B. in 20 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2428.75	110.13	Initial Hydro-static
2	243.09	110.18	Open To Flow (1)
31	364.72	115.66	Shut-In(1)
91	1305.12	115.08	End Shut-In(1)
92	383.89	114.82	Open To Flow (2)
151	568.05	118.36	Shut-In(2)
276	1302.46	116.72	End Shut-In(2)
278	2363.07	115.78	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
234.00	gcm 5%G 95%M	3.28
189.00	mcg 40%M 60%G	2.65
189.00	mcw og 10%M 10%W 40%O 40%G	2.65
63.00	mcw og 20%M 20%W 30%G 30%O	0.88
63.00	mcw g 20%M 40%W 40%G	0.88
378.00	100% Water	5.30

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Vincent Oil Corporation  
155 N Market STE 300  
Wichita KS, 67202 - 1821  
ATTN: Jim Hall

**5-28s-23w Ford Co, KS**  
**Frey #1-5**  
Job Ticket: 56458      **DST#: 1**  
Test Start: 2014.03.28 @ 13:00:00

## 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: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7900.00 ppm			
Filter Cake: 2.00 inches			

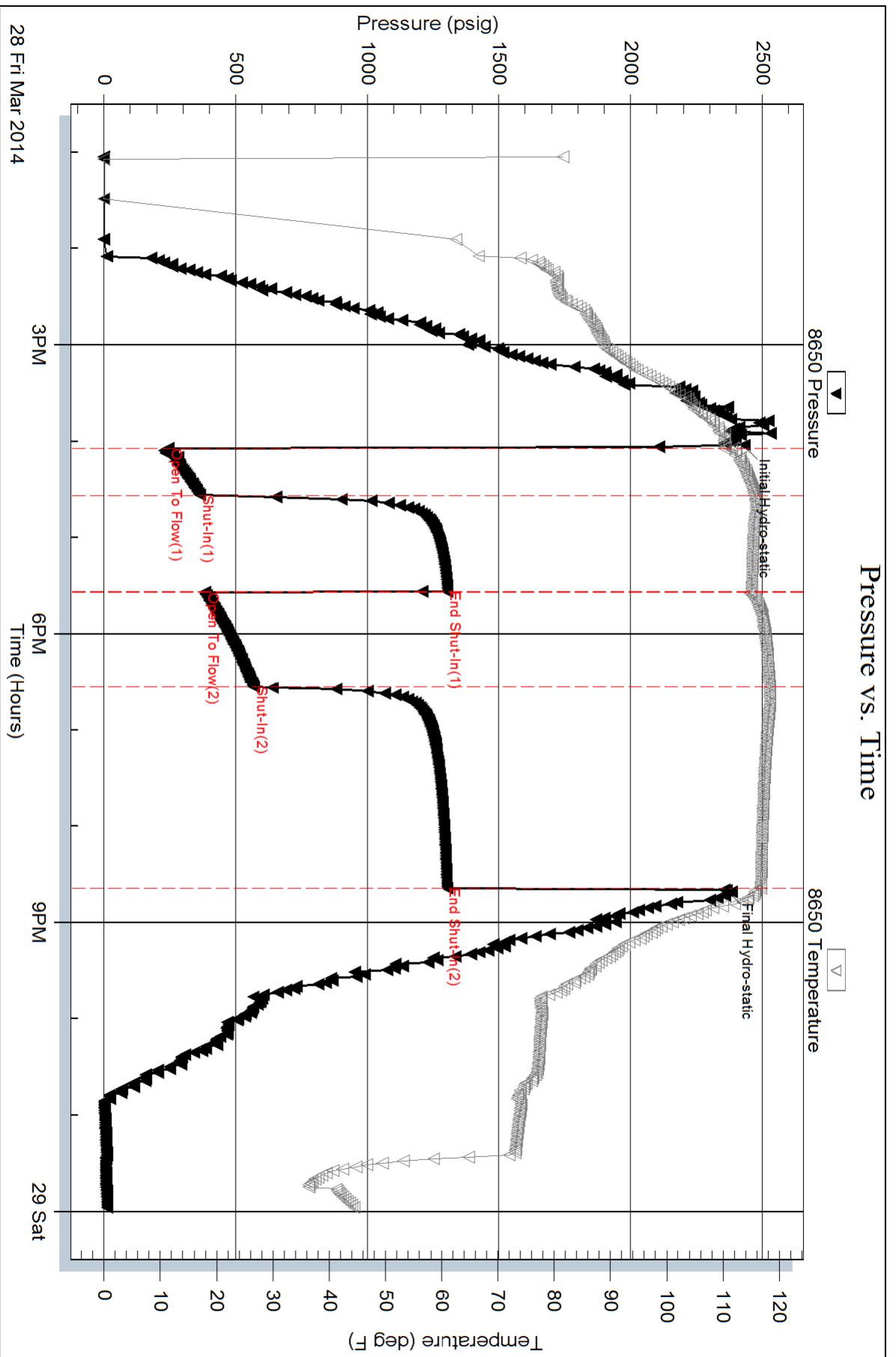
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
234.00	gcm 5%G 95%M	3.282
189.00	mcg 40%M 60%G	2.651
189.00	mcw og 10%M 10%W 40%O 40%G	2.651
63.00	mcw og 20%M 20%W 30%G 30%O	0.884
63.00	mcw g 20%M 40%W 40%G	0.884
378.00	100% Water	5.302
0.00	3354 Feet Weak Gas In Pipe	0.000

Total Length: 1116.00 ft      Total Volume: 15.654 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW: .2 @ 40 F = 50,000

3354 Feet Weak Gas In Pipe





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Vincent Oil Corporation  
155 N Market STE 300  
Wichita KS, 67202 - 1821  
ATTN: Jim Hall

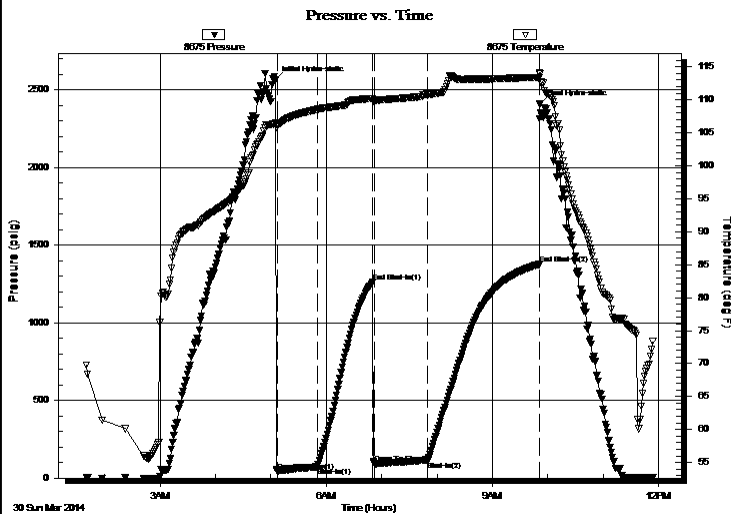
**5-28s-23w Ford Co, KS**  
**Frey #1-5**  
Job Ticket: 56459      **DST#: 2**  
Test Start: 2014.03.30 @ 01:40:00

## GENERAL INFORMATION:

Formation: **Base Penn - Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 05:06:30  
Time Test Ended: 11:54:15  
Interval: **4998.00 ft (KB) To 5125.00 ft (KB) (TVD)**  
Total Depth: 5125.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jace McKinney  
Unit No: 75  
Reference Elevations: 2503.00 ft (KB)  
2491.00 ft (CF)  
KB to GR/CF: 12.00 ft

**Serial #: 8675      Inside**  
Press @ Run Depth: 110.69 psig @ 4999.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.03.30      End Date: 2014.03.30      Last Calib.: 2014.03.30  
Start Time: 01:40:15      End Time: 11:54:15      Time On Btm: 2014.03.30 @ 05:04:45  
Time Off Btm: 2014.03.30 @ 09:51:15

**TEST COMMENT:** B.O.B. in 10 min. 1/4 hose w as plugged  
Bled off for 5 min. No return blow  
B.O.B. as soon as opened back up  
Bled off for 5 min. No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2561.99	106.46	Initial Hydro-static
2	41.53	105.89	Open To Flow (1)
46	72.86	108.54	Shut-In(1)
106	1262.00	110.21	End Shut-In(1)
107	93.88	109.68	Open To Flow (2)
165	110.69	110.70	Shut-In(2)
286	1376.34	113.39	End Shut-In(2)
287	2407.11	114.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3087 Feet Gas In Pipe	0.00
78.00	100% M	1.09
126.00	gcom 5%G 5%O 90%M	1.77

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Vincent Oil Corporation  
 155 N Market STE 300  
 Wichita KS, 67202 - 1821  
 ATTN: Jim Hall

**5-28s-23w Ford Co, KS**

**Frey #1-5**

Job Ticket: 56459

**DST#: 2**

Test Start: 2014.03.30 @ 01:40:00

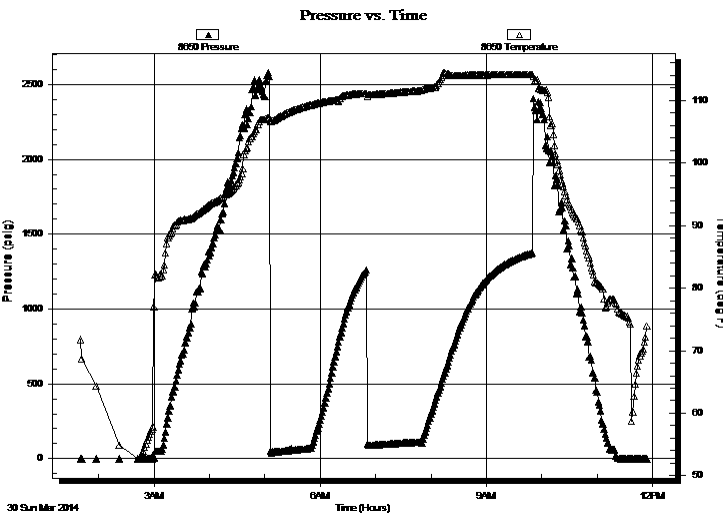
## GENERAL INFORMATION:

Formation: **Base Penn - Miss**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 05:06:30 Tester: Jace McKinney  
 Time Test Ended: 11:54:15 Unit No: 75  
 Interval: **4998.00 ft (KB) To 5125.00 ft (KB) (TVD)** Reference Elevations: 2503.00 ft (KB)  
 Total Depth: 5125.00 ft (KB) (TVD) 2491.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 12.00 ft

## Serial #: 8650

Press @ Run Depth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.30 End Date: 2014.03.30 Last Calib.: 2014.03.30  
 Start Time: 01:40:15 End Time: 11:54:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** B.O.B. in 10 min. 1/4 hose w as plugged  
 Bled off for 5 min. No return blow  
 B.O.B. as soon as opened back up  
 Bled off for 5 min. No return blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	3087 Feet Gas In Pipe	0.00
78.00	100% M	1.09
126.00	gcom 5%G 5%O 90%M	1.77

\* 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  
155 N Market STE 300  
Wichita KS, 67202 - 1821  
ATTN: Jim Hall

**5-28s-23w Ford Co, KS**  
**Frey #1-5**  
Job Ticket: 56459      **DST#: 2**  
Test Start: 2014.03.30 @ 01:40:00

## 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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

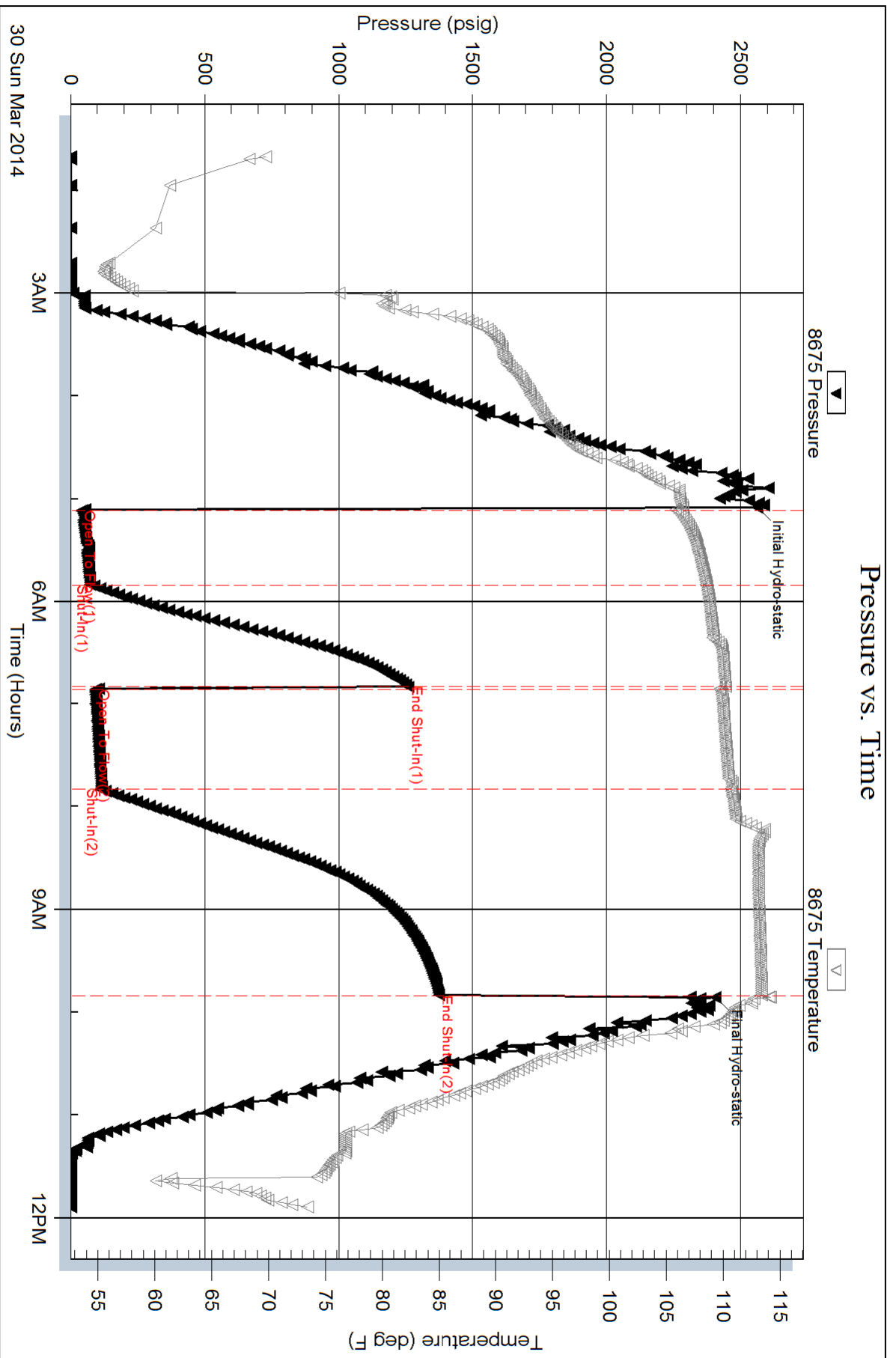
Length ft	Description	Volume bbl
0.00	3087 Feet Gas In Pipe	0.000
78.00	100% M	1.094
126.00	gcom 5%G 5%O 90%M	1.767

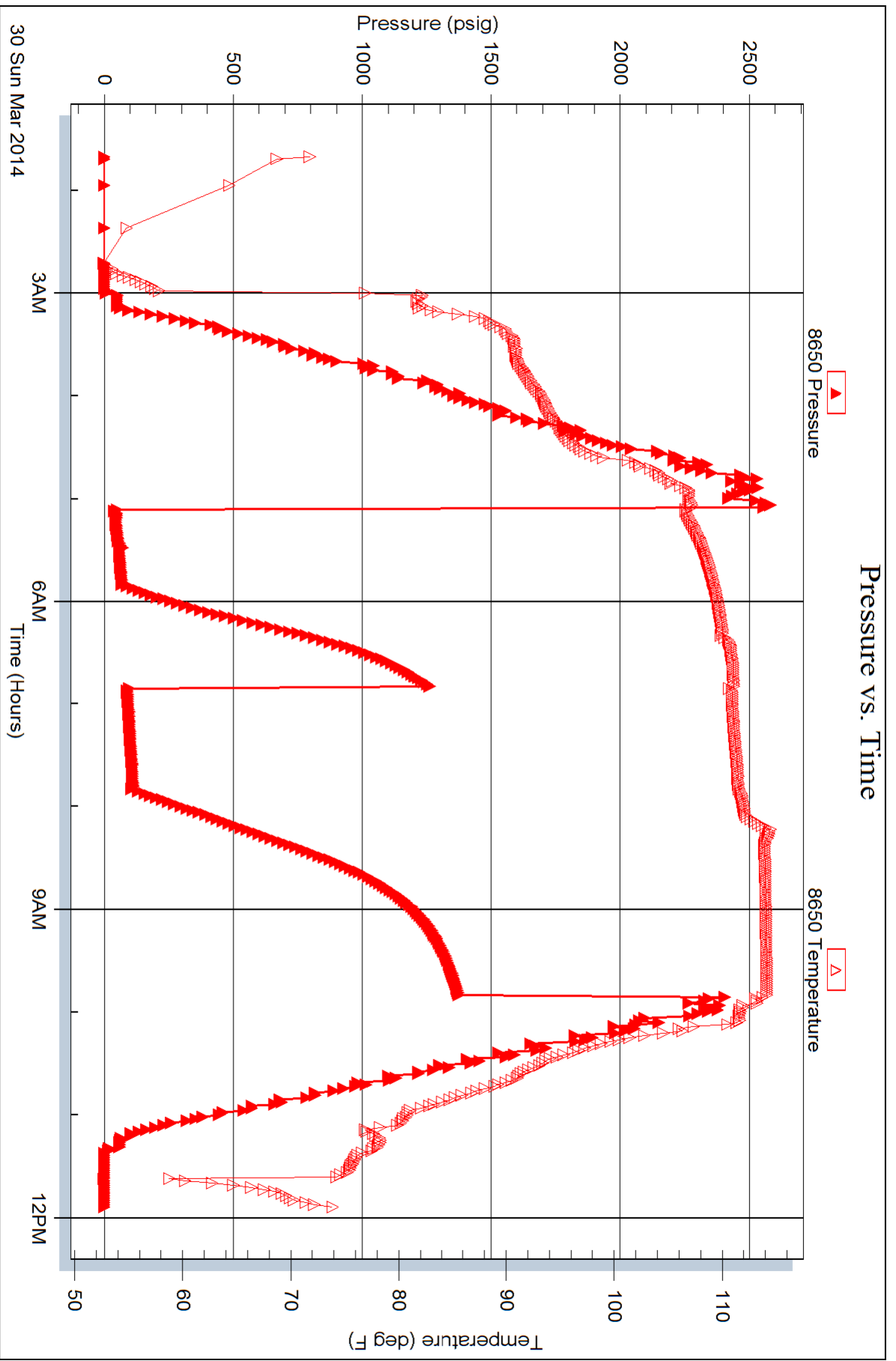
Total Length: 204.00 ft      Total Volume: 2.861 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





# LITHOLOGY STRIP LOG

## WellSight Systems

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

Well Name: VINCENT OIL CORP. FREY #1-5

Location: SW NE NW SW SEC. 5, T28S, R23W, FORD CO. KANSAS

License Number: 15-057-20928-00-00

Region: WILDCAT

Spud Date: 3/18/14

Drilling Completed: 3/31/14

Surface Coordinates: 2,100' FSL, 670' FWL

### Bottom Hole Coordinates:

Ground Elevation (ft): 2,491'

K.B. Elevation (ft): 2,503'

Logged Interval (ft): 4,100' To: 5,251' Total Depth (ft): 5,251'

Formation: Mississippi

Type of Drilling Fluid: NATIVE MUD TO 3,801'. CHEMICAL GEL TO RTD.

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://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 644' w/ 300sx, cement did circulate.

Daily Activity: @07:00hrs.

3/18/14; move on and rig up. Spud @ 23:15hrs.

3/19/14; drilling 12 1/4" hole @ 164'.

3/20/14; drilling 7 7/8" hole @ 678'.

3/21/14; drilling @ 1,934'.

3/22/14; drilling @ 2,590'. Down for 7.5hrs. for trip and rig repair.

3/23/14; drilling @ 3,205'.

3/24/14; drilling @ 3,690'. Down for 6.75hrs. trip for hole in two drilling collars and rig repair (hydromatic).

3/25/14; drilling @ 4,330'. circulated Toronto Porosity 1hr., rig repair (hydromatic)1hr.

3/26/14; drilling @ 4,718'. 3.5hrs. rig repair (hydromatic).

3/27/14; drilling @ 4,895'. 1/2hr circulating samples prior to trip out for hydromatic repair, 9hrs down rig repair (hydromatic) and trip.

3/28/14; 4,940' DST #1 Pawnee (4,912' - 4,940'), made 25std short trip prior to test #1, back to bottom to condition, tripped out to test and found hole in the pipe 40 stands off bottom. Tripped back to bottom to condition again prior to testing. Made up test tool, then started to pickup string to trip in hole, blocks bent the monkey board, could not trip pipe. Total Co. time last 24hrs (18.75hrs). 11.5hrs. of that time was spent due to extra trip and conditioning time due to hole in pipe, and waiting on welder to repair monkey board.

3/29/14; drilling @ 4,987'. company time DST #1 (14.5hrs.) Rig repairs and waiting on welder (6.5hrs.).

3/30/14; Running DST #2 Mississippi 4,998' - 5,125' (127'). Estimated company time testing and circulating the last 24hrs. (15 1/2hrs.).

3/31/14; Tripping out to run open hole logs. Estimated Co. time the last 24hrs. (15hrs.). The well was P&A, after E-log, DST's and Strip log evaluation.

Deviation Surveys: 1 @ 645', 1 @ 1,181', 1 @ 1,780' 1 @ 2,280', 0.25 @ 4,940' 1/2 @ 5,251'.

### Bit Record:

#1 12 1/4" out @ 645'.

#2 7 7/8" Varel HA 21 in @ 645', out @ 5,125', made 4,480' in (125.5)hrs.

#3 7 7/8" Varel RR HE 31 in @ 5,125', out @ 5,251', made 126' in 7.75hrs.

Drilling time commenced: @ 4,100'. Maximum 10' wet and dry samples commenced: @ 4,150' to RTD, (at times 5' samples were used). Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Bluestem Labs; digital unit # 0756. .

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,801', Mud Engineer: Justin Whiting (Dodge City)

Open Hole Logs: Nabors Hays, Kansas, Logging Engineer: Jeff Luebbers.  
DIL, CDL/CNL/PE, MEL/SON.

Sample tops are placed on this strip log (with the reference wells "A" Vincent Riegel #1-9 9-T28S-R23W, and "B" Vincent Steele #1-6 6-T28S-R23W. Top datum differences are shown, on this strip log.

## DSTs

DST #1 Pawnee 4,912' - 4,940' (28'), 30-60-60-120, IH 2429, IF 243-365 (BOB 30sec.), ISI 1,305 (BOB 17min), FF 384-568 (BOB 8min), FSI 1,302, FH 2363, Rec; 3,354' GIP, 234' GCM (5%g,95%m), 189' MCG (60%g,40%m), 189' MCWOG (40%g,40%o,10%w,10%m), 63' MCWGO (30%g,30%o,20%w,20%m), 378' Water, Chl 50,000ppm, Rw 0.2@40F, @ BHT 0.0678), BHT 118F. Mud Co. measured Chl 105,000ppm.

DST #2 Mississippi 4,998' - 5,125' (127'), 45-60-60-120, IH 2562, IF 42-73 (BOB 10min 1/4" hose was plugged), ISI 1262 (no blow), FF 94-111 (BOB Immediately), FSI 1376, FH 2407, Rec; 3,087' GIP, 78' Mud (100%m), 126' GCOM (5%g,5%o,90%m), BHT 113F.

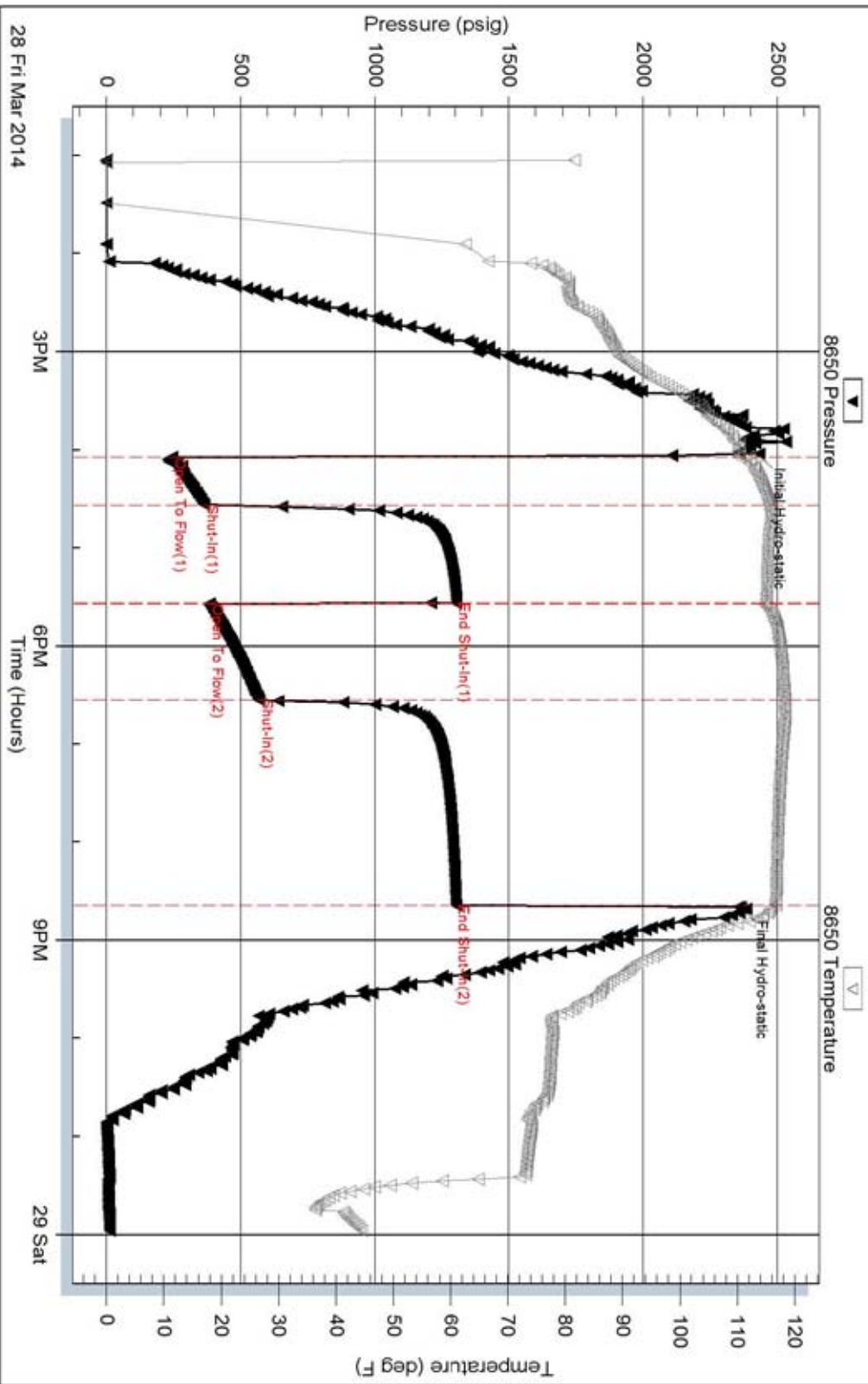
Serial #: 8650

Vincent Oil Corporation

Frey #1-5

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56458

Printed: 2014.03.29 @ 02:29:56

Serial #: 8675

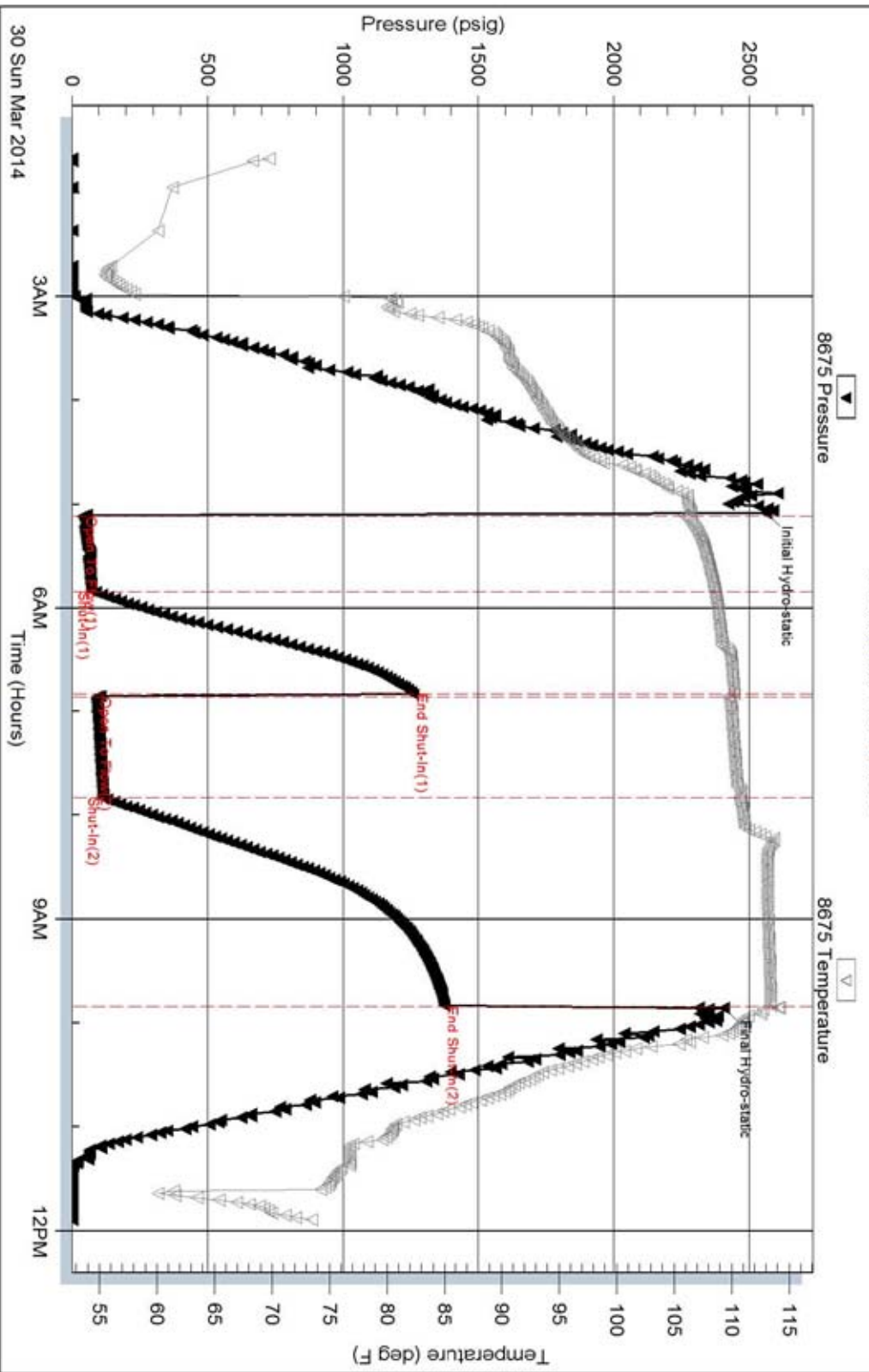
Inside

Vincent Oil Corporation

Frey #1-5

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56459

Printed: 2014.03.30 @ 17:54:12

**WELL SITE OPERATIONS / JIM HALL SUPERVISOR**

**OPERATOR:**

Vincent Oil Corp.

**WELL REFERENCE SHEET**

**SUBJECT WELL:**

Frey # 1-5

**SUBJECT WELL LOCATION:**

SW NE NW SW 5-T28S-R23W, Ford Co. Kansas

**SUBJECT WELL DATUM:**

**2,503**

**REF. WELL 'A'**

Riegel #1-9 NW/4 9-T28S-R23W

**DATUM:**

**2,494**

**REF. WELL 'B'**

Steele #1-6 6-T28S-R23W

**DATUM:**

**2,511**

**E-LOG TOPS**

**SUBJECT WELL:  
ZONE**

**WELL 'A'**

**WELL 'B'**

	<b>DEPTH</b>	<b>DATUM</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>REF.</b>
HEEB.	4,266	-1,763	4,255	-1,761	-2	4,259	-1,748	-15
Brown Ls.	4,392	-1,889	4,385	-1,891	2	4,379	-1,868	-21
Lansing	4,400	-1,897	4,395	-1,901	4	4,390	-1,879	-18
Stark Sh	4,708	-2,205	4,700	-2,206	1	4,701	-2,190	-15
Hushp. Sh	4,753	-2,250	4,749	-2,255	5	4,745	-2,234	-16
Marmaton	4,848	-2,345	4,859	-2,365	20	4,847	-2,336	-9
PAWNEE	4,922	-2,419	4,925	-2,431	12	4,920	-2,409	-10
Labette Sh	4,950	-2,447	4,947	-2,453	6	4,945	-2,434	-13
CKE Sh	4,970	-2,467	4,969	-2,475	8	4,966	-2,455	-12
2nd CKE	5,000	-2,497	5,000	-2,506	9	4,999	-2,488	-9
B/Penn.	5,071	-2,568	5,069	-2,575	7	5,068	-2,557	-11
SAND			5,086	-2,592				
ChertCong						5,088	-2,577	
MISS.	5,090	-2,587	5,100	-2,606	19	5,102	-2,591	4
1st Por.	5,100	-2,597	5,110	-2,616	19	5,124	-2,613	16
2nd Por.	5,116	-2,613	5,116	-2,622	9	5,135	-2,624	11

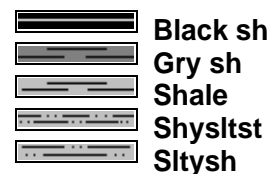
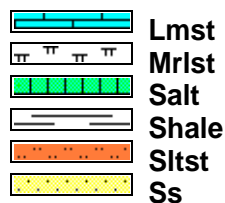
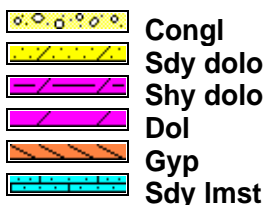
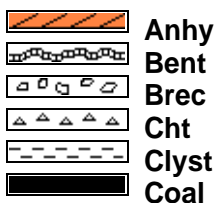
## Qualifiers

### CARBONATE CLASSIFICATION:

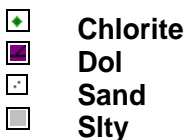
**AFTER DUNHAM:** GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **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; porosity, fossils, show, chert, etc.: rare = less than 1% of sample total, trace = less than 5% of sample total, >5% estimate of total percent of sample.

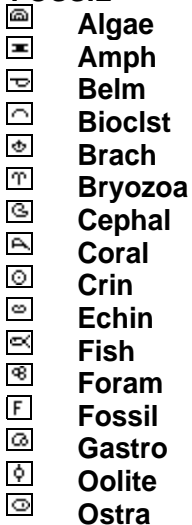
## ROCK TYPES



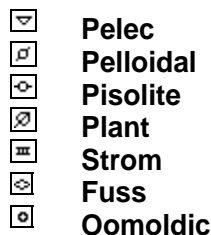
### MINERAL



### FOSSIL



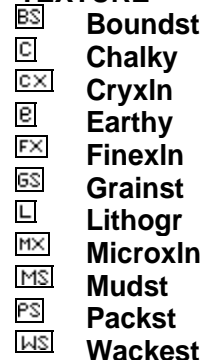
## ACCESSORIES



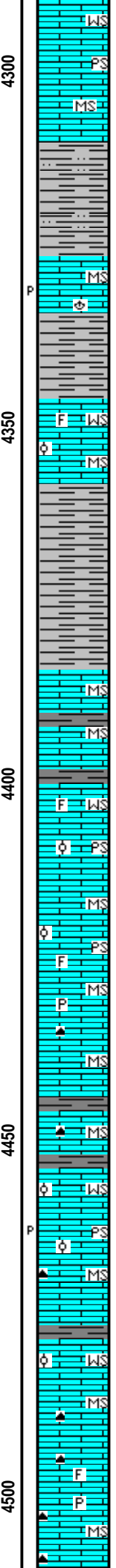
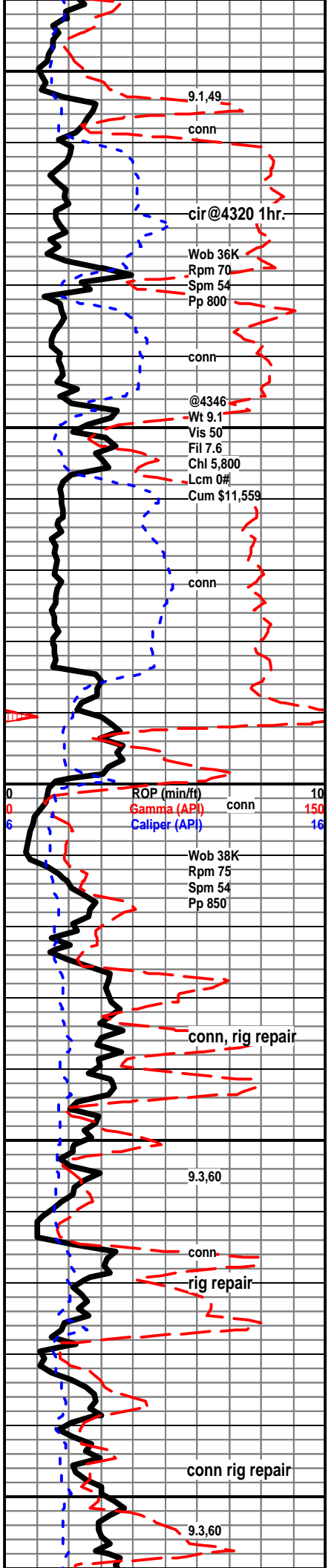
### STRINGER



### TEXTURE







Wackestone to Packstone; cream to tan, occasionally off white, most brittle, chalky, rare chert inclusions, micro-oolitic to micro-fossil frag., no cut on selected samples, no show, no visible porosity in the wet.

Mudstone; gray, silky-dense, crystalline texture.

Shale; very slight increase in % gray, black and occasionally gray-green sub waxy, some silty.

Mudstone; cream to buff, rare brach inclusions, tight looking wet, rare barren porosity-cave?

Shale; gray, gray-green, to pale green-sub waxy, to black.

Wackestone; cream to tan, fossil-fragments to micro-oolitic, tight look wet, dull yellow fluorescence-no cut, Mudstone; brown, crystalline, rare fossil inclusions.

Shale; as above, majority to samples are limestone from above, no real change here.

**Brown Lime 4390 (-1887) A +4, B -19**

Mudstone; tan to gray, dense, some crystalline.

**Lansing 4400 (-1897) A +4 B -18**

Wackestone to Packstone; cream to buff, fine oolites to micro-oolitic, occasionally micro-fossiliferous, dull gold to yellow fluorescence, no show or visible porosity in the wet sample, poor quality sample.

Mudstone; tan chalky, dense, poor quality as above, much shale in sample here!

Packstone; off white, cream, micro-oolitic, soft to brittle, dull gold and yellow mineral fluorescence, no show, no cut.

Mudstone; brown, dense, crystalline, silky texture, rare free dark chert and pyrite.

Mudstone; cream to tan, hard, chalky, dense, rare dark free blocky chert, dull gold and yellow mineral fluorescence, no show in wet.

Shale; black, gray, gray-green, rare dark brown with carbonaceous inclusions.

Wackestone; cream to off white, micro-oolitic, dense, mineral fluorescence only, no show in wet.

Packstone; micro-oolitic, no show, rare barren porosity in the dry sample.

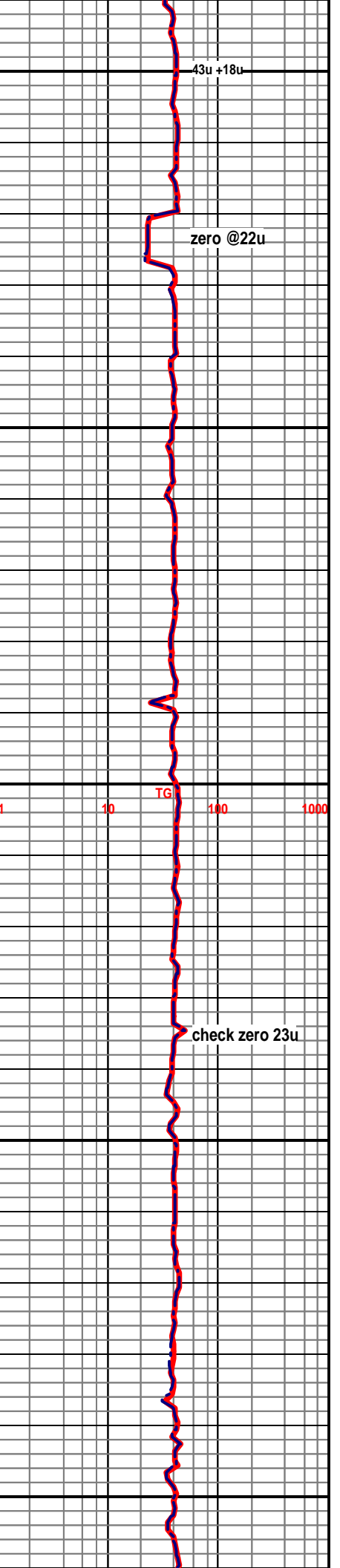
Mudstone; cream to gray and tan, dense, rare free blue-gray chert.

Shale; black, gray, gray-green.

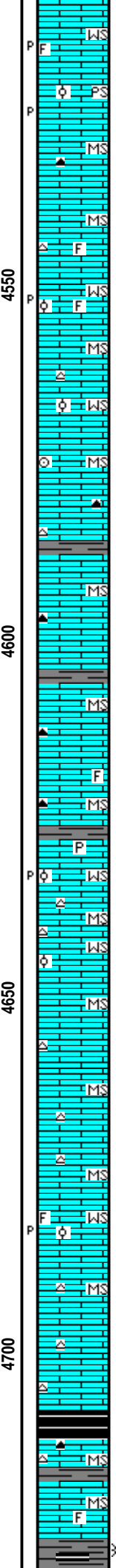
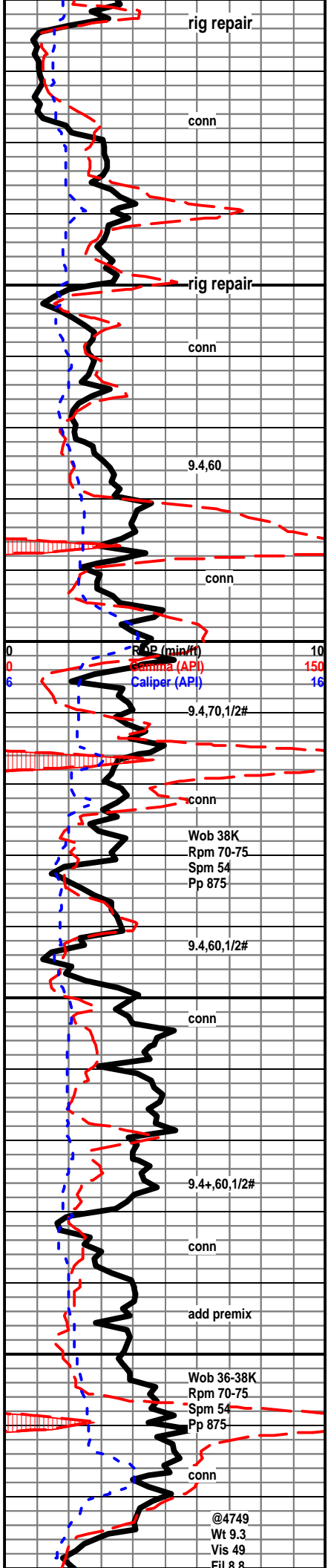
Wackestone; cream to off white, chalky, hard to brittle, micro-oolitic, no show.

Mudstone; gray, hard, blocky, dense, some with silky texture, free gray chert, dull gold mineral fluorescence here.

Mudstone; tan to brown, some gray, rare fossil fragments in the matrix, dense look in wet, trace with very fine crystalline look, rare free pyrite and gray chert.







Wackestone; to Packstone; cream, off white to brown, micro-oolitic, to trace micro-fossil fragments, chalky to crystalline matrix, looks tight in the wet, rare barren porosity in the dry, dull mineral fluorescence only, poor sample representation here!

Mudstone; cream to gray and brown, hard, chalky to crystalline matrix, dense looking in the wet, rare free brown chert here.

Mudstone; cream to gray, occasionally brown, some micro-fossiliferous, rare light chert.

Wackestone; micro-oolitic to micro-fossiliferous, hard, most chalky matrix, no show, rare barren porosity visible in the dry

Mudstone; cream to brown, chalky to crystalline-silky texture, tight, rare light gray free chert.

Wackestone; micro-oolitic, chalky, tight looking in wet, mineral fluorescence only.

Mudstone; cream to tan, occasionally gray, rare free crinoid stem and fusulinid, no show, trace gray and blue gray free chert.

Shale; dark gray, black, most soft.

Mudstone; cream to brown, tan, chalky to crystalline-silky dense texture, rare dark brown chert.

Mudstone; cream to tan, occasionally gray, most chalky, some silky crystalline, tight looking in wet, rare fossil fragments in the matrix, trace free brown and gray chert.

Shale; slight increase in dark gray, gray, gray-green, brittle, some black.

Wackestone; cream to off white, micro-ool, hard, chalky, yellow and dull gold min. fluor, no show, rare porosity in the dry.

Wackestone; cream to brown, hard, micro-oolitic, rare micro-fossil fragments, yellow mineral fluor. no cut, no show.

Mudstone; most cream, hard, chalky, scattered crystalline-dense, silky texture, rare free chert.

Mudstone; cream as above, less % of shale in the sample here, rare free light chert.

Mudstone; as above, no real change here, free light chert.

Wackestone; cream to brown, hard, most with chalky texture, micro-oolitic, rare fossil fragments in tight looking matrix in the wet, min. fluor. only, rare barren porosity in the dry, no show.

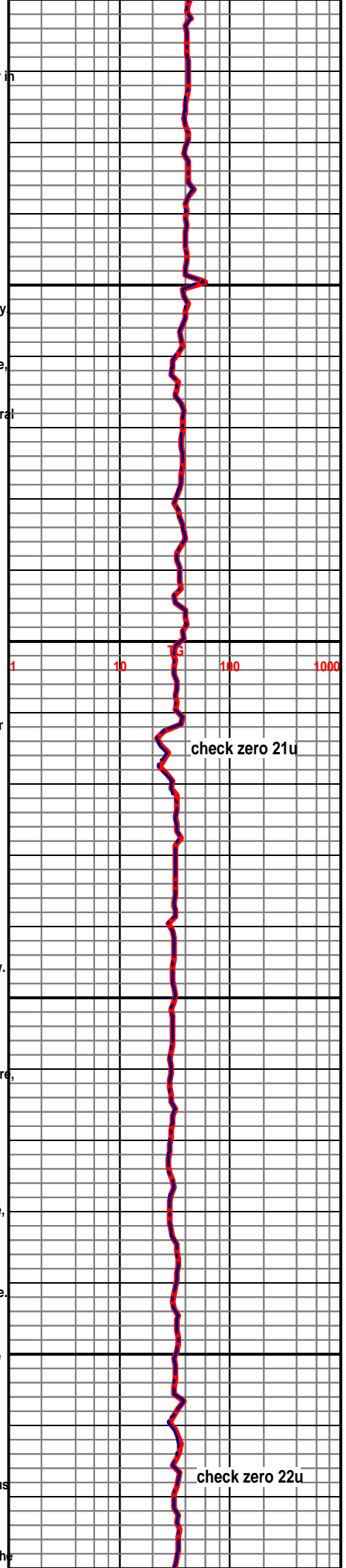
Mudstone; cream, most chalky, rare free blue-gray chert here.

Mudstone; most cream to tan, chalky, hard to brittle, dense, rare spotty wormy dark stain-no cut, rare free chert, rare fine oolitic Packstone-tight, no show, cave? Shale; slight inc. % gray, gray-green to rare black, no visible gas bubbles when broken.

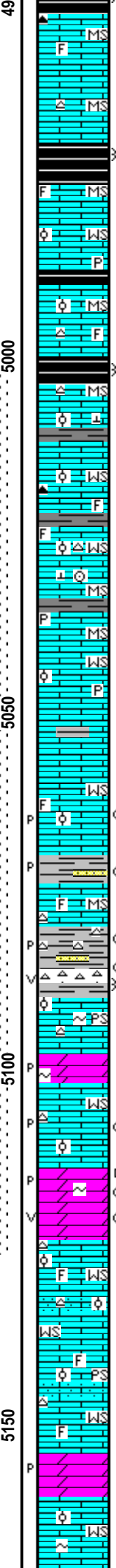
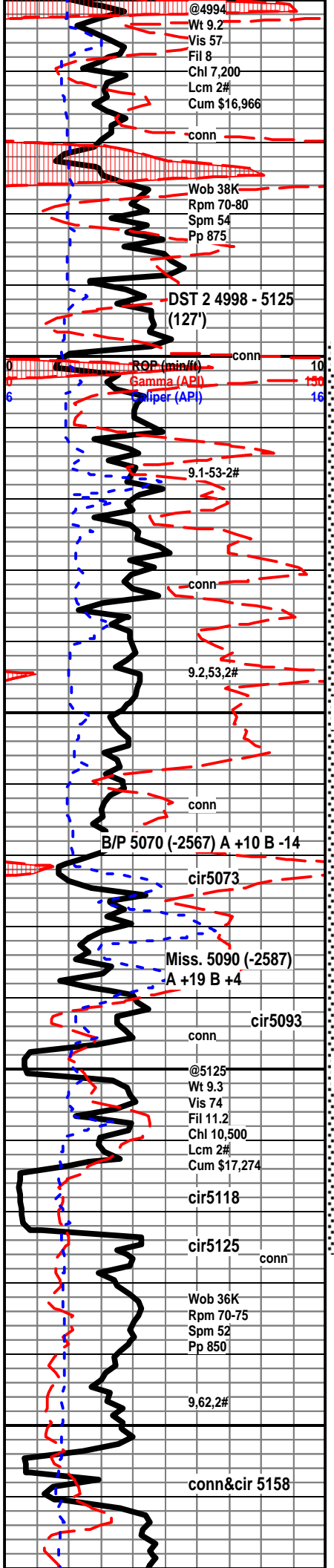
**Stark 4709 (-2206) A even B -16**

Shale; black carbonaceous, rare dark gray with carbonaceous inclusions.

Shale; increase in gray, gray-green, dark gray-some with carbonaceous inclusions, one sample gassy black shale in the







Mudstone; brown, crystalline, dense, rare fossil fragments in the matrix, rare dark brown free chert, sample quality still poor.

Mudstone cream to gray, chalky to crystalline, dense, sample quality better.

**CKE 4970 (-2467) A +8 B -12**

Shale; carbonaceous, gassy.

Mudstone; most as above, dull mineral fluor. no show, quality improving with depth.

Wackestone; cream-chalky, tan-crystalline to chalky, micro-oolitic and rare very fine oolites in a tight looking matrix, rare micro-fossils, dull fluor., NS.

Mudstone; cream-chalky, tan-crystalline, dense mixed with Wackestone as above, no show.

Shale; carbonaceous gassy.

Mudstone / Wackestone; as above, rare free fossiliferous opaque calcite.

Wackestone; cream-chalky, tan to brown crystalline, micro-oolitic to micro-fossiliferous in a tight looking matrix, rare free brown chert, approx. 5% spotty yellow fluorescence here however no cut-mineral.

AA; spotty dull yellow fluorescence-no cut.

Mudstone; cream to gray, chalky, hard to brittle, rare yellow spotty fluor., no cut.

Wackestone; small influx, off white, brittle micro-oolitic, dense looking matrix, rare yellow fluorescence-no cut, no show.

Wackestone; aa, small increase in cream to gray chalky, no show, shales gray-black as above, and pale green as above, large % increase.

Wackestone; cream, brittle, most chalky, rare silky-crystalline micro-oolitic to micro-foss., 5% bright fluorescence, instant milky cut, rare spotty barren porosity, no odor, no visible oil.

Shale; slight increase here, more pale and sea green, rare mottled ocher, rare SS; ufg, wlsrtd, wlcons, light to dark gray, no visible fluorescence, rare milky cut on dead looking stain, 90min >SS.

Shale; gray, green, vry color. hard to soft, some arenaceous, rare free chert, fresh to spotty stain, rare bleed gas and brown oil, no odor, looks tight to produce.

Packstone; small influx, off white, fine oolitic, rare glauconite, looks tight no show.

Dolomite; light gray to buff, hard to friable, gritty to very fine sucrosic texture, rare barren porosity, most look tight, no show.

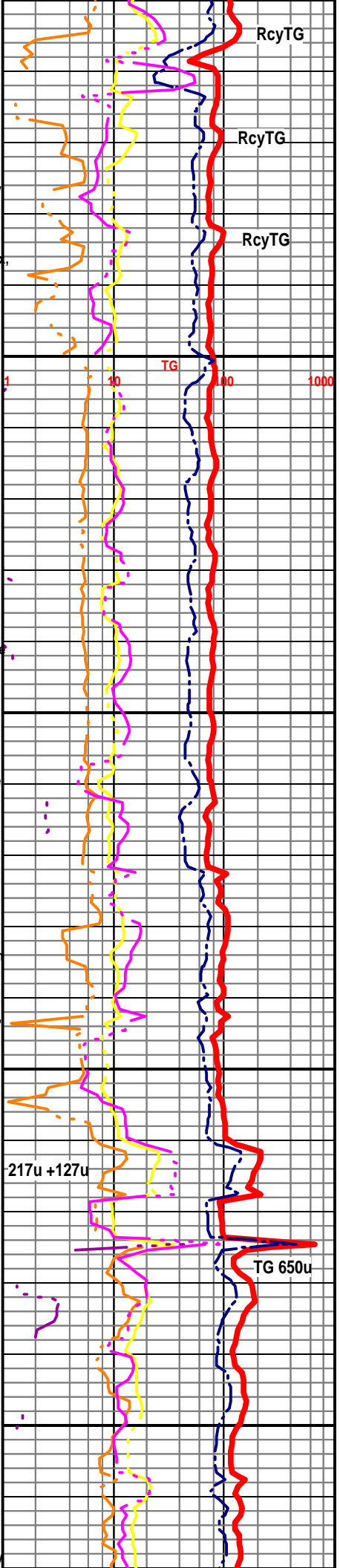
Dolomite; light gray to occasionally buff, hard to friable, scattered barren porosity, trace with black wormy dead looking stain, with instant cut-but rare visible porosity-no live oil stain, trace spotty brown stain with brown oil and odor when broken, some pinpoint and small vuggy porosity with brown oi, much of the Dolomite however looks barren and tight. decrease in gas after circulating @ 5118', however over all show and lack of looks similar.

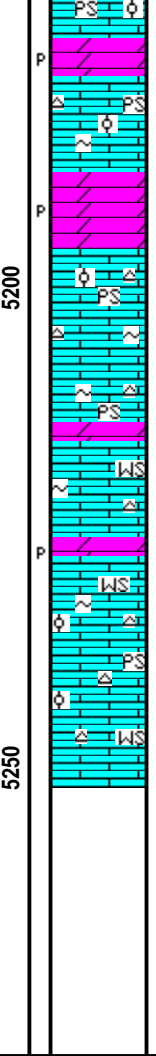
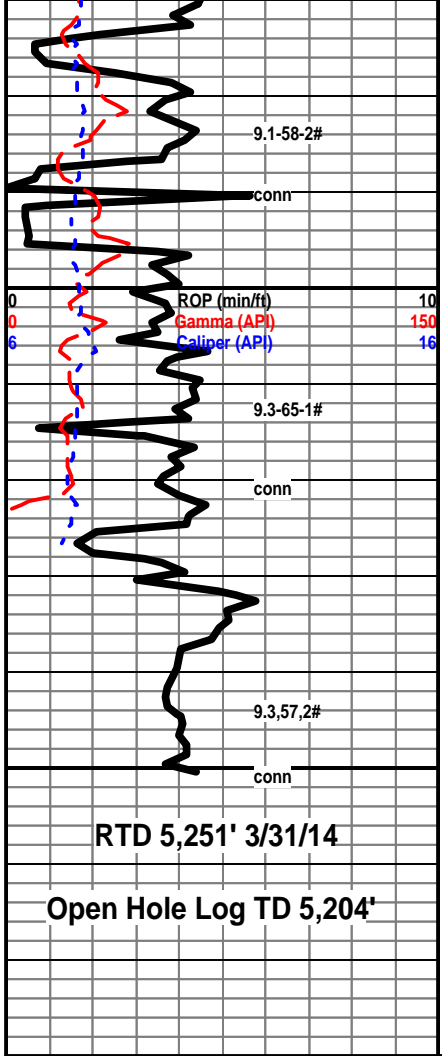
Wackestone; to Packstone; cream to off white, fine oolites to micro-oolites in a tight looking chalky matrix, traces off white highly chalky-sandy limestone, soft to firm, rare free bone white chert, some oolitic, very colored shales in the samples-cave, no odor and no new shows.

Wackestone; as above, rare free chert as above, rare cong. chert from above with black stain.

Dolomite; tan, hard to firm, gritty to fine sucrosic dull chalky texture, looks tight in the wet, no odor, in the washed or unwashed samples, no visible porosity in the wet, barren porosity in the dry sample.

Wackestone; to Packstone; fine oolitic to micro-oolitic, chalky





matrix, no show

Dolomite; tan light brown and gray, gritty, rear cream, friable brittle, por. visible in dry, no show

Packstone; cream to off white, fine to micro oolites in a chalky matrix, rare gray-highly glauconitic, no show.

Dolomite, gray to buff, hard to brittle, gritty texture, dull chalk luster, no show, barren por. in the dry.

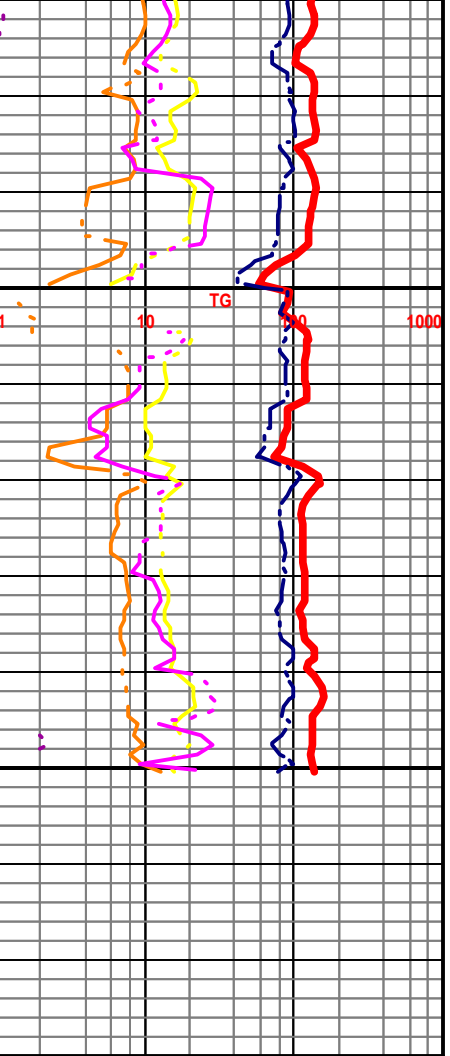
Packstone; fine oolitic, to micro-oolitic, chalky, most white to cream, soft to brittle, no visible porosity in the wet or dry, rare glauconite, free bone white chert, some oolitic

Packstone; cream to off white, hard to soft, mostly chalky matrix, fine oolites to micro-oolities, rare copper inclusions, rare glauconite in the matrix, approx. 5% free white chert, rare light gray chert.

Dolomite; cream to light gray, gritty texture, hard, barren porosity in the dry, no show.

Wackestone; cream to off white, micro-oolitic, chalky to crystalline matrix, rare glauconite, approx. 5% free chert in sample, some fossiliferous.

Wackestone to Packstone; as above, approx. 10% free chert, rare bone white chert inclusions, slight increase in cream to off white Mudstone, chalky to crystalline, dense, slight increase in vary colored shale here.



RTD 5,251' 3/31/14

Open Hole Log TD 5,204'