Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1236504

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 # 5004
Name: Vincent Oil Corporation
Address 1: 155 N MARKET STE 700
Address 2:
City: WICHITA State: KS Zip: 67202 + 1821
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: Tom Dudgeon
Purchaser: None - D&A

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 #:

9/3/2014	9/12/2014	9/13/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-057-20939-00-00
Spot Description:
NE - NW - NW - SE Sec. 22 Twp. 28 S. R. 23 ☐ East ☑ West
2360 Feet from ☐ North / ☑ South Line of Section
2100 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: Hawes Ranch Well #: 2-22
Field Name: Great Mogul Canyon
Producing Formation: None - D&A
Elevation: Ground: 2480 Kelly Bushing: 2490
Total Vertical Depth: 5215 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 644 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: 13300 ppm Fluid volume: 1000 bbls
Dewatering method used: Evaporated

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: 12/29/2014
☑ **Confidential Release Date:** 12/28/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Rene Stucky **Date:** 12/31/2014

[redacted] 1236504

Operator Name: Vincent Oil Corporation Lease Name: Hawes Ranch Well #: 2-22

Sec. 22 Twp. 28 S. R. 23 ☐ East ☑ West County: Ford

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:
Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface casing	12.25	8.6250	23	644	MDC & Class A	250	0-2% Gel, 0-3% CC & 1/4# Flo-seal/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth

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

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

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

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
_____
_____

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Hawes Ranch 2-22
Doc ID	1236504

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Hawes Ranch 2-22
Doc ID	1236504

Tops

Name	Top	Datum
Heebner Shale	4301	(-1811)
Brown Limestone	4439	(-1949)
Lansing	4451	(-1961)
Stark Shale	4769	(-2279)
Pawnee	4979	(-2489
Cherokee Shle	5024	(-2534)
Base Penn Limestone	5125	(-2635)
Mississippian	5177	(-2687)
RTD	5215	(-2725)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Hawes Ranch 2-22
Doc ID	1236504

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface casing	12.25	8.6250	23	644	MDC & Class A	250	0-2% Gel, 0-3% CC & 1/4# Flo-seal/sx

QUALITY WELL SERVICE, INC.

6205

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
09 04 14	22	28s	23w	Ford	KS	5:00AM	8:00AM

Lease Hawes Ranch | Well No. 2-22 | Location Kingsdown 2N, 3W, 1 3/4 E & N/into

Contractor Val #

Type Job Surface

Hole Size 12 1/4 | T.D. 644

Csg. 8 5/8 23# | Depth 644

Tbg. Size | Depth

Tool | Depth

Cement Left in Csg. 40 | Shoe Joint 40

Meas Line | Displace 38 1/2 BBls Fresh

Owner

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Vincent

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 125sx MDC + 1/4# Floseal & 125sx Class A + 2% gel + 3% cc + 1/4# FS

EQUIPMENT

Pumptrk 8	No.	David F
Bulktrk 10	No.	David B
Bulktrk 7	No.	Mike B
Pickup	No.	

JOB SERVICES & REMARKS

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar Ran 15 jts 8 5/8 csg

Pipe on Bttm, Break Circ., Pump Spacer, Mix 125sx lite & 125sx tail Cement, Stop-Release Plug, Start Disp. w/Fresh H2O, Wash up on Plug, See steady increase in PSI, Slow Rate Bump Plug @ 38 1/2 BBls total Disp., From 250 # to 600 # Shut in, Cement Did Circ.

Common	125
~~Poz. Mix~~	MDC 125
Gel.	11
Calcium	10
Hulls	
Salt	
Flowseal	66.25
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	271
Mileage	50

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	Baffle Plate
Float Shoe	
Latch Down	Wooden Cup Plug
LMU	50
Service Supervisor	
Pumptrk Charge	Surface
Mileage	50 x 2
Tax	
Discount	
Total Charge	

X Signature Walt Lunt

Taylor Printing, Inc.

QUALITY WELL SERVICE, INC.

6242

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-13-14	22	28	23	Ford	KS		7:30

Lease Hawes Ranch | Well No. 2-22 | Location Kingsdown 2N, 4W, 2N, East into

Contractor Val

Type Job Rotary Plug.

Hole Size 12 1/4 | T.D. 644

Csg. 8 5/8 | Depth 644

Tbg. Size | Depth

Tool | Depth

Cement Left in Csg. | Shoe Joint

Meas Line | Displace

Owner

To Quality Well Service, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Vincent

Street

City | State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 220 sx 60/40 4% Gel 1/4 C.F.

EQUIPMENT

Pumptrk 8	No.	Rich
Bulktrk 10	No.	Dwd
Bulktrk	No.	
Pickup	No.	Dwd

JOB SERVICES & REMARKS

Rat Hole 30sx

Mouse Hole 20sx

Centralizers

Baskets

D/V or Port Collar

1st Pumped 50sx 60/40 4% Gel @ 1500'

2nd Pumped 50sx 60/40 4% Gel @ 670'

3rd Pumped 50sx 60/40 4% Gel @ 300'

4th Pumped 20sx 60/40 4% Gel @ 60' to surface.

Common	135
Poz. Mix	85
Gel.	8
Calcium	
Hulls	
Salt	
Flowseal	55
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	228
Mileage	50

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
LMV	50
Service Supervisor	
Pumptrk Charge	Rotary Plug.
Mileage	50 x 2
Tax	
Discount	
Total Charge	

X Signature

Taylor Printing, Inc.

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57759 **DST#: 1**

Test Start: 2014.09.11 @ 10:00:15

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:19:30
Time Test Ended: 18:59:45

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 5108.00 ft (KB) To 5176.00 ft (KB) (TVD)
Total Depth: 5176.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

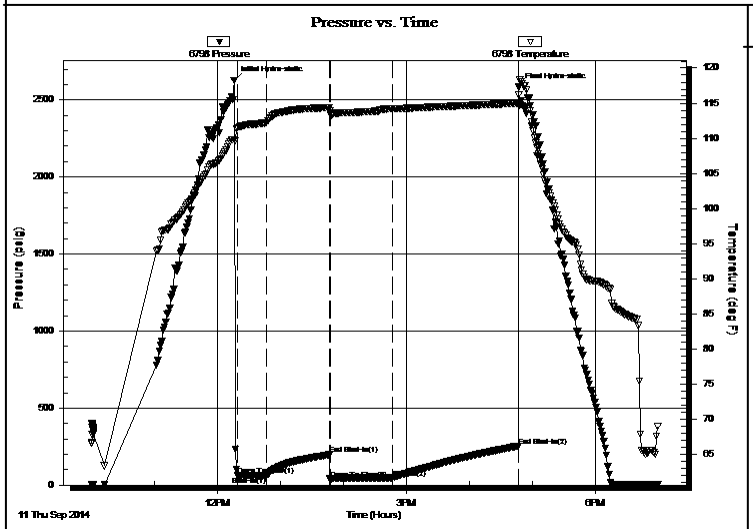
Reference Elevations: 2487.00 ft (KB)
2477.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 47.49 psig @ 5109.00 ft (KB)
Start Date: 2014.09.11 End Date: 2014.09.11
Start Time: 10:00:16 End Time: 18:59:45

Capacity: 8000.00 psig
Last Calib.: 2014.09.11
Time On Btm: 2014.09.11 @ 12:16:00
Time Off Btm: 2014.09.11 @ 16:47:15

TEST COMMENT: IF: Strong Blow , BOB in 20 seconds, GTS in 18 minutes, Gauged & Caught Sample
ISI: Blow Back Built to 6 inches
FF: Strong Blow , BOB & GTS immediate, TSTM
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2627.18	109.84	Initial Hydro-static
4	63.80	111.56	Open To Flow (1)
31	57.73	112.23	Shut-In(1)
91	197.35	114.38	End Shut-In(1)
92	38.62	113.62	Open To Flow (2)
151	47.49	114.20	Shut-In(2)
271	254.55	115.00	End Shut-In(2)
272	2582.25	116.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5004 GIP	0.00
90.00	SGCM 2%G 98%M	1.26

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	18.00	51.40
Last Gas Rate	0.25	18.00	51.40

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57759 **DST#: 1**

Test Start: 2014.09.11 @ 10:00:15

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5004 GIP	0.000
90.00	SGCM 2%G 98%M	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57759 **DST#: 1**

Test Start: 2014.09.11 @ 10:00:15

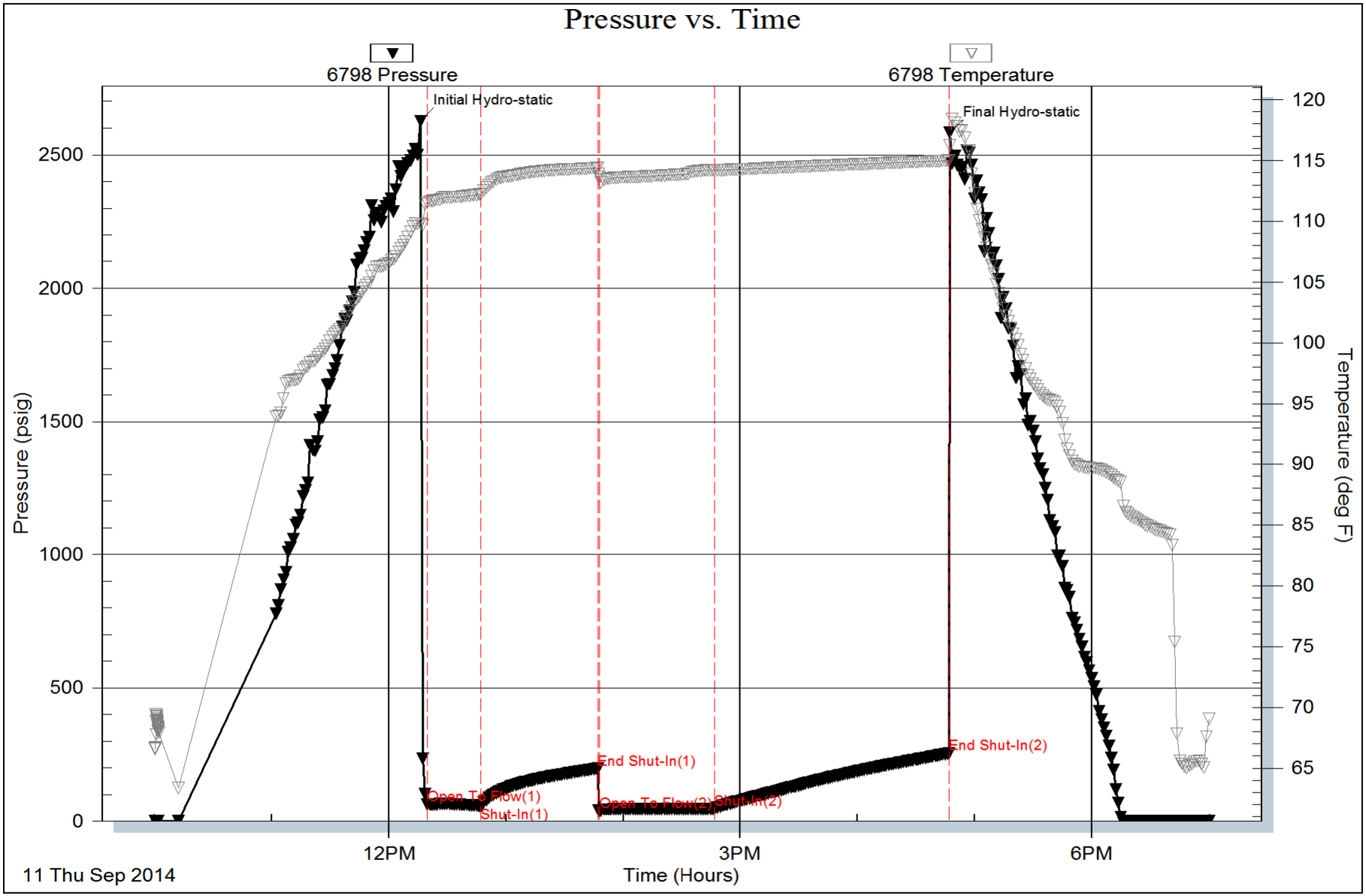
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.25	18.00	51.40
1	30	0.25	18.00	51.40

Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57759 Printed: 2014.09.11 @ 23:15:00

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57760 **DST#: 2**

Test Start: 2014.09.12 @ 05:51:44

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:11:29
Time Test Ended: 17:10:29

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5182.00 ft (KB) To 5215.00 ft (KB) (TVD)
Total Depth: 5215.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

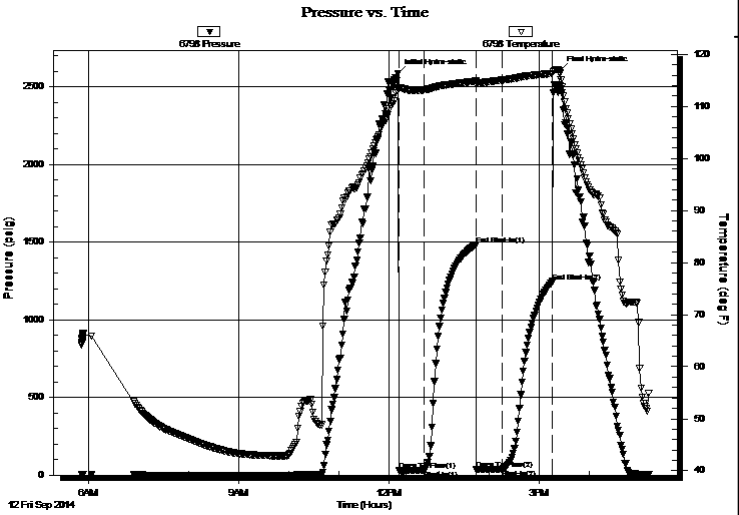
Reference Elevations: 2487.00 ft (KB)
2477.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 39.01 psig @ 5183.00 ft (KB)
Start Date: 2014.09.12 End Date: 2014.09.12
Start Time: 05:51:45 End Time: 17:10:29

Capacity: 8000.00 psig
Last Calib.: 2014.09.12
Time On Btm: 2014.09.12 @ 12:10:29
Time Off Btm: 2014.09.12 @ 15:24:14

TEST COMMENT: IF: Weak 1/2 inch Blow
ISI:No Blow Back
FF: Weak Surface Blow
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2586.23	113.32	Initial Hydro-static
1	27.81	113.38	Open To Flow (1)
31	32.95	113.18	Shut-In(1)
94	1485.92	114.87	End Shut-In(1)
94	36.80	114.23	Open To Flow (2)
125	39.01	115.05	Shut-In(2)
185	1246.88	116.33	End Shut-In(2)
194	2607.15	116.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud	0.56

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57760 **DST#: 2**

Test Start: 2014.09.12 @ 05:51:44

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:	51.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

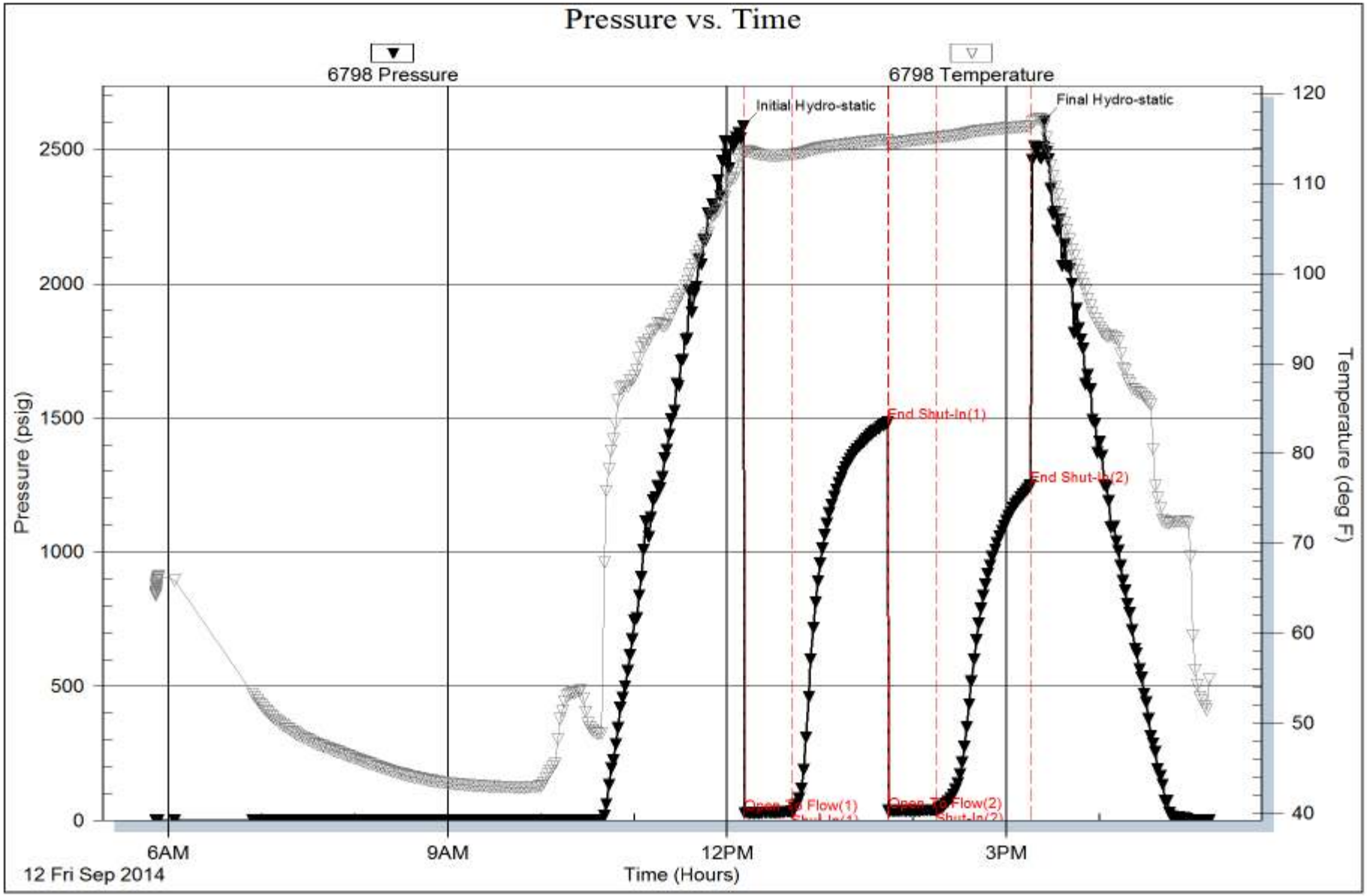
Recovery Table

Length ft	Description	Volume bbl
40.00	Mud	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 57760 Printed: 2014.09.12 @ 18:34:17

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57761 **DST#: 3**

Test Start: 2014.09.13 @ 02:07:38

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:35:08
Time Test Ended: 10:41:38

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5022.00 ft (KB) To 5214.00 ft (KB) (TVD)
Total Depth: 5214.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

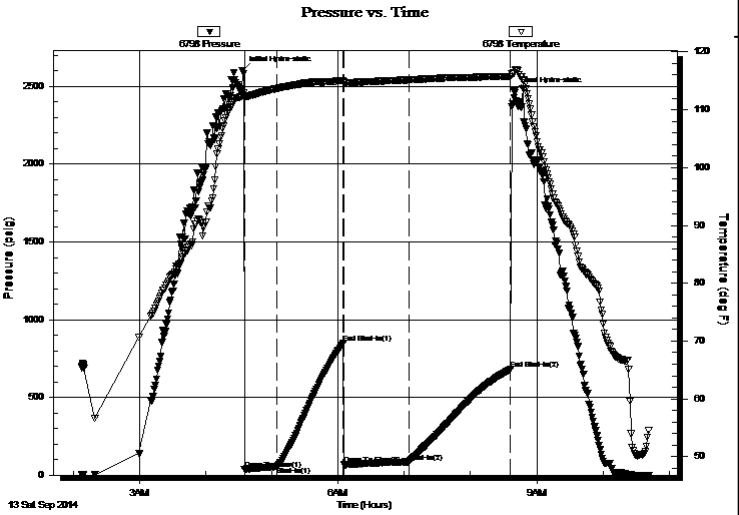
Reference Elevations: 2487.00 ft (KB)
2477.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 85.99 psig @ 5023.00 ft (KB)
Start Date: 2014.09.13 End Date: 2014.09.13
Start Time: 02:07:39 End Time: 10:41:38

Capacity: 8000.00 psig
Last Calib.: 2014.09.13
Time On Btm: 2014.09.13 @ 04:33:23
Time Off Btm: 2014.09.13 @ 08:39:08

TEST COMMENT: IF: Weak Blow , BOB in 22 minutes
ISI: No Blow Back
FF: Weak Blow , BOB in 21 minutes
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2603.94	112.49	Initial Hydro-static
2	36.37	112.27	Open To Flow (1)
32	55.87	113.66	Shut-In(1)
92	847.39	115.06	End Shut-In(1)
92	66.91	114.77	Open To Flow (2)
151	85.99	115.16	Shut-In(2)
243	680.61	115.78	End Shut-In(2)
246	2469.73	116.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
135.00	SGCM 2%G 98%M	1.89

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

22-28S-23W Ford

Hawes Ranch 2-22

Job Ticket: 57761 **DST#: 3**

Test Start: 2014.09.13 @ 02:07:38

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.98 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	8200.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

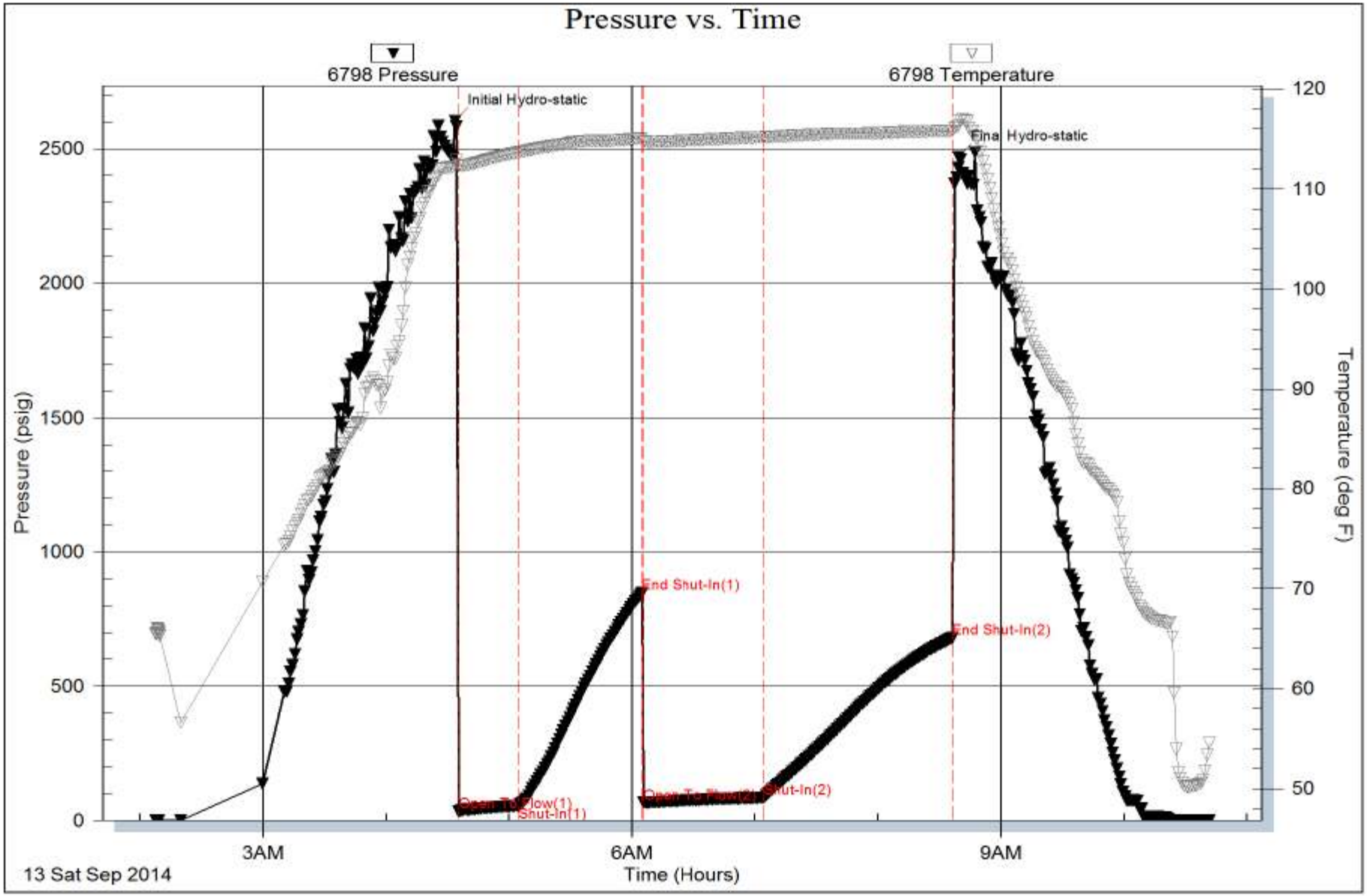
Recovery Table

Length ft	Description	Volume bbl
135.00	SGCM 2%G 98%M	1.894

Total Length: 135.00 ft Total Volume: 1.894 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 57761 Printed: 2014.09.13 @ 11:37:49

Scale 1:240 Imperial

Well Name:	Hawes Ranch 2-22		
Surface Location:	22-28S-23W NE NW NW SE		
Bottom Location:			
API:	15-057-20939-00-00		
License Number:			
Spud Date:	9/4/2014	Time:	1:37 PM
Region:			
Drilling Completed:	9/12/2014	Time:	1:50 AM
Surface Coordinates:	2360 FSL & 2100 FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2480.00ft		
K.B. Elevation:	2490.00ft		
Logged Interval:	4200.00ft	To:	5215.00ft
Total Depth:	5215.00ft		
Formation:	MISS		
Drilling Fluid Type:			

OPERATOR

Company:	Vincent Oil Corporation		
Address:	155 N Market Ste 700 Wichita, KS 67202		
Contact Geologist:	Dick Jordan		
Contact Phone Nbr:	316-262-3573		
Well Name:	Hawes Ranch 2-22		
Location:	22-28S-23W NE NW NW SE	API:	15-057-20939-00-00
Pool:		Field:	Great Mogul Canyon
State:	KANSAS	Country:	USA

LOGGED BY

Company:	Vincent Oil Corporation		
Address:	155 N Market Ste 700 Wichita, KS 67202		
Phone Nbr:	316-262-3573		
Logged By:	Geologist	Name:	Tom Dudgeon

CONTRACTOR

Contractor:	Val Drilling		
Rig #:	2		
Rig Type:	Rotary		
Spud Date:	9/4/2014	Time:	1:37 PM
TD Date:	9/12/2014	Time:	1:50 AM
Rig Release:	9/13/2014	Time:	12:00 AM

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.8208559	Latitude:	37.5932845

Longitude:	-99.8208559	Latitude:	37.5932845
N/S Co-ord:	2360 FSL		
E/W Co-ord:	2100 FEL		

ELEVATIONS

K.B. Elevation:	2490.00ft	Ground Elevation:	2480.00ft
K.B. to Ground:	10.00ft		

OPEN HOLE LOGS

Logging Company:	Nabors Completion and Production Services, Co.		
Logging Engineer:	Jason Cappellucci		
Truck #:	4854		
Logging Date:	9/12/2014	Time Spent:	5
# Logs Run:	4	# Logs Run Successful:	4

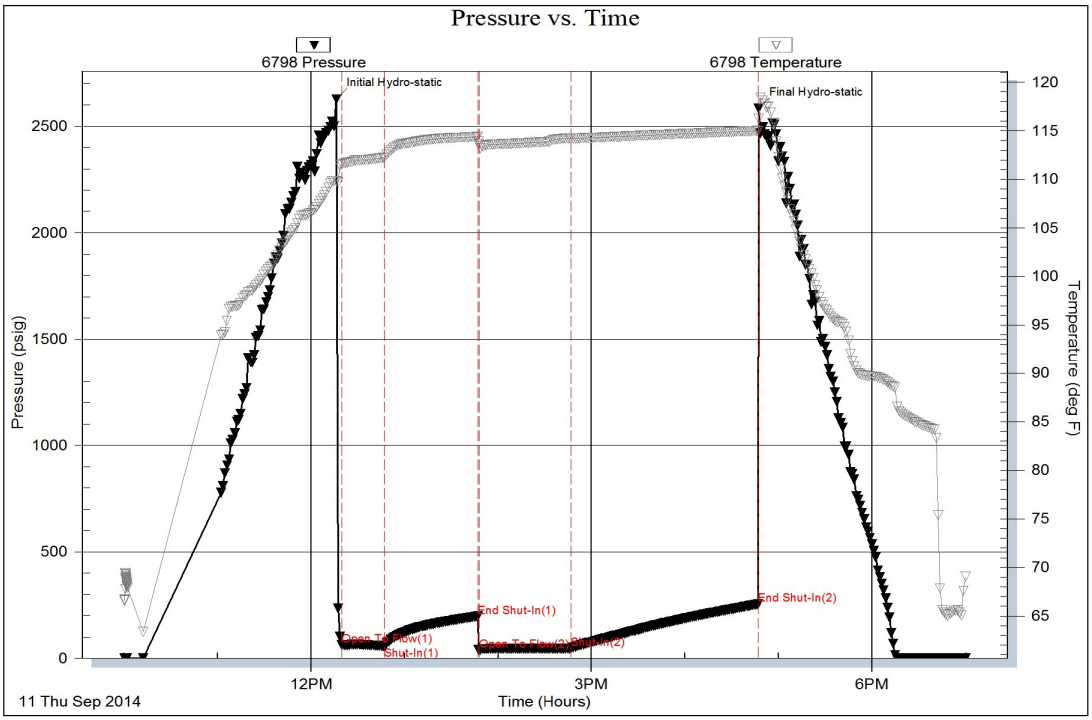
LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5214.00ft	2.00		1
Neu/Den/PE	4200.00ft	5214.00ft	2.00		1
Micro	4200.00ft	5214.00ft	3.00		2
Sonic	0.00ft	5214.00ft	3.00		2

LOGGING OPERATION SUMMARY

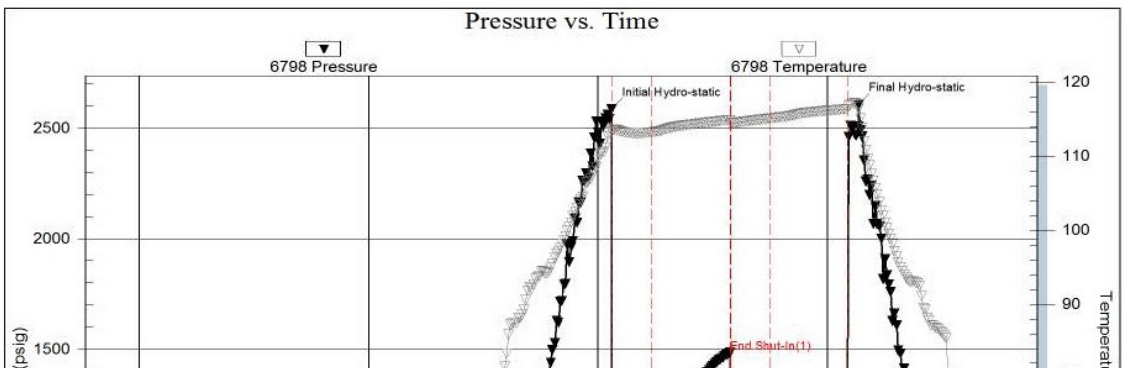
Date	From	To	Description Of Operation
9/12/2014	0.00ft	5214.00ft	Logs ran successfully

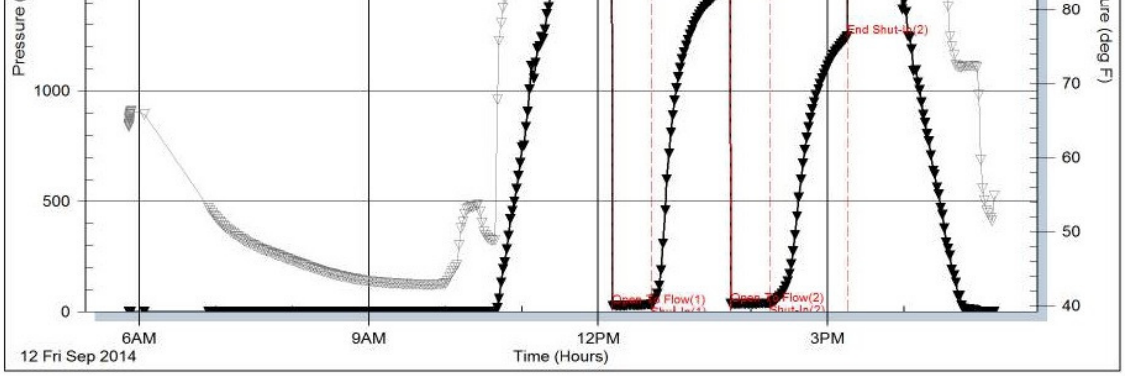
Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 57759 Printed: 2014.09.11 @ 23:15:00

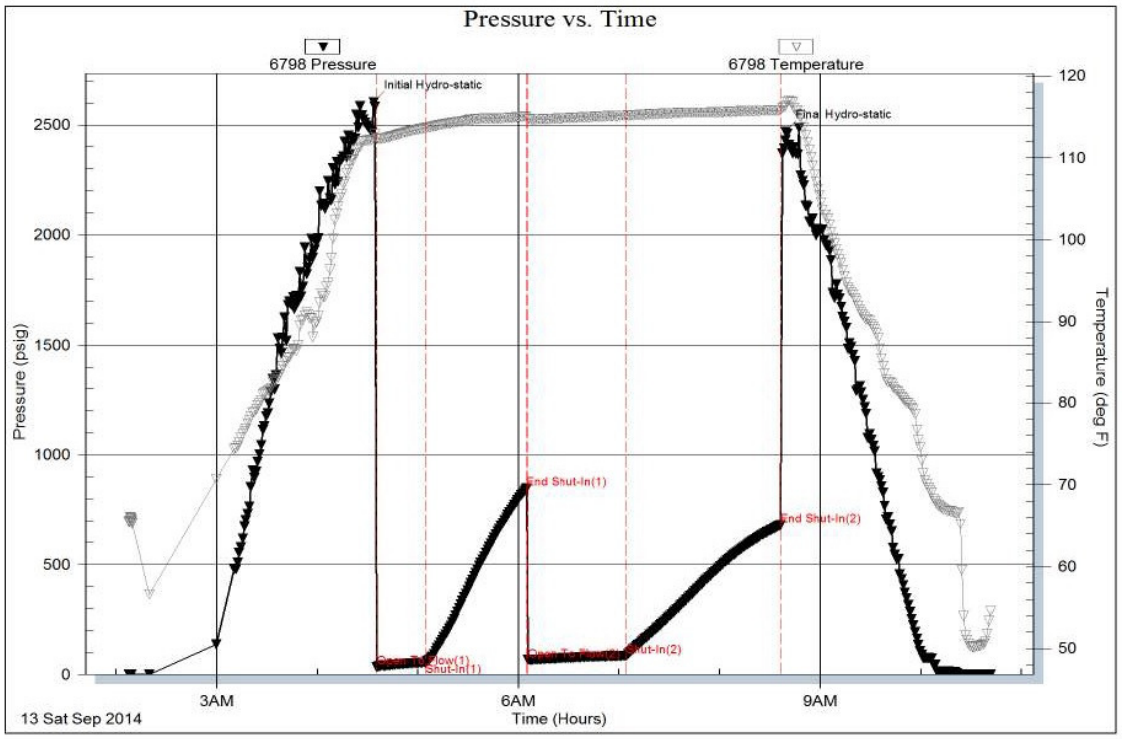
Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 2





Trilobite Testing, Inc Ref. No: 57760 Printed: 2014.09.12 @ 18:34:17

Serial #: 6798 **Inside** Vincent Oil Corporation Haw es Ranch 2-22 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 57761 Printed: 2014.09.13 @ 11:37:49

ROCK TYPES

Coal, Congl, Dolsec, Lmst fw<7, Shgy, Shblck, Shcol, Chtcongl

ACCESSORIES

MINERAL
- Carbonaceous Flakes
- Chert, dark
- Dolomitic
- Ferruginous, grains or p
- Glauconite
- Heavy, dark minerals
- Sandy
- Siliceous
- Silty
- Chert White

FOSSIL
- Crinoids
- F Fossils < 20%
- Oolite
- Spicules

STRAT./SED. STRUCTS
- Massive

STRINGER
- Dolomite
- Sandstone

TEXTURE
- C Chalky
- CX Cryptocrystalline
- e Earthy
- FX FinexIn
- MX MicroxIn

MISC
- Fractures
- Veins

OTHER SYMBOLS

POROSITY TYPE
- × Intercrystalline
- Intercolitic

OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %

INTERVALS
- Core
- DST

Φ Intercolitic	◕ Spotted Stn 50 - 75 %	• DST
V Vuggy	◑ Spotted Stn 25 - 50 %	
P Pinpoint	◔ Spotted Stn 1 - 25 %	
Moldic	○ Questionable Stn	
O Organic	D Dead Oil Stn	
F Fracture	■ Fluorescence	
e Earthy		
⊡ Fenestral		

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

Curve Track #01
Total Gas (units)
ROP (min/ft)
1:240 Imperial

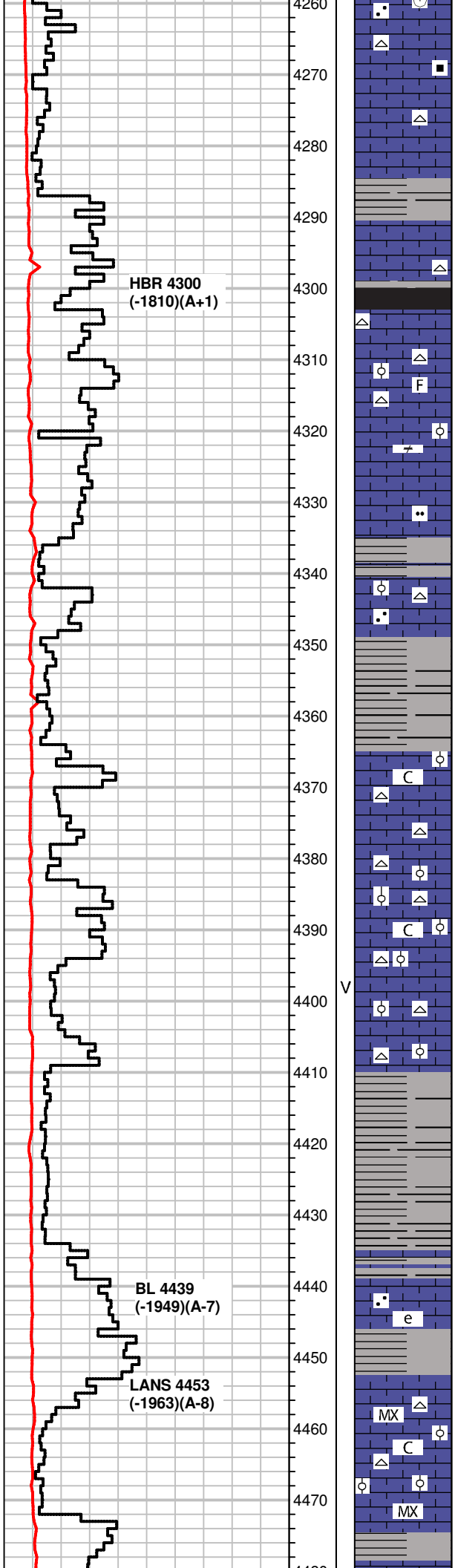
Depth | Intervals
Cored Interval
DST Interval
Porosity Types
Interpreted Lithology
Oil Shows

0 Total Gas (units) 50
0 ROP (min/ft) 10

4110
4120
4130
4140
4150
4160
4170
4180
4190
4200
4210
4220
4230
4240
4250

0 Total Gas (units) 50
0 ROP (min/ft) 10

Geological Descriptions	Comment
GEO ON LOC @ 12:00 PM 9/8/2014 GAS DETECTOR: BLOODHOUND UNIT 0779 provided by BLUESTEM LABS DRILL TIME KEPT FROM 4150 to TD 10' SAMPLES FROM 4200 to TD	
MS, crm to off white, some pcs crystalline, soft, no fluor, NS rare Chert, tan, oolitic, fossilif.	
MS, crm, A.A., chalky matrix, soft, SH, gray, red	
SH, gray to brn, brick red, WS-PS, crm to gray, chalky in part, some large particles in a f-xln chalky matrix	
MS-WS, crm to gray A.A., some Chert, inclusions, white, rare SS clusters in red SH, dull fluor, NS	
MS, crm to tan, firm to soft, sandy in part, NS, dull fluor, rare Chert, opaque white	
MS, A.A., some pcs w/ dead blk stn, no fluor, Chert, white, fossils (spicules)	
SH, gray to brn, some blk pcs, MS, crm, A.A., firm to soft, siliceous crinoid stem in MS matrix, some pcs silty, NS	
SH, blk, brn, gray, some sandy, MS, A.A. friable, NS	



SH, blk, gray, green, carbonaceous pcs,
MS, A.A, rare dead wormy stn,

SH, more blk, brn, dk. brn, scatt MS, crm, chalky in part, soft, A.A.

SH, blk, carbonaceous, MS, crm to lt. gray, firm to hard, silty in part, dull fluor, fossils, some Chert, white

some SH, rare blk, gray
MS, crm to lt. gray, firm to hard, silty in part, some fossils dull fluor, NS, Chert, white

MS, gray to crm, hard, massive txt, fossilif, NS

MS-WS, crm to lt. gray, silty in part, hard
SH, gray

WS-MS, crn to brn, some gray, m-xln, fossilif, m-gr oolitic pcs, firm to hard, sandy, Chert, white, some inclusion
rare SH, blk

MS, crm to off white, crypt-xln txt, dense, mineral fluor, calcite veins, NS,
SH, gray, green

MS, A.A., some gray, brn specks in some pcs, rare fossils, some pcs silty, chalky in part

MS, off white to crm, earthy txt, chalky matrix w/ sand gr.'s scatt, rare co- gr Qtz pcs, Chert, white, angular/platy

MS-WS, brn to crm, oolitic to sub oolitic, fn-gr black ooids in chalky matrix, hard pcs throughout, dense, Chert, white
rare SH, blk, gray

MS-WS, crm to off white, crypt-xln, soft/friable pcs, ooliitc, vuggy por., Chert, white, fray, fossils

MS-WS, crm, off white, A.A., m-gr oolitic pcs, chalky pcs, bright min fluor, NS, Chert, white

SH, gray, green

SH, blk, green, gray

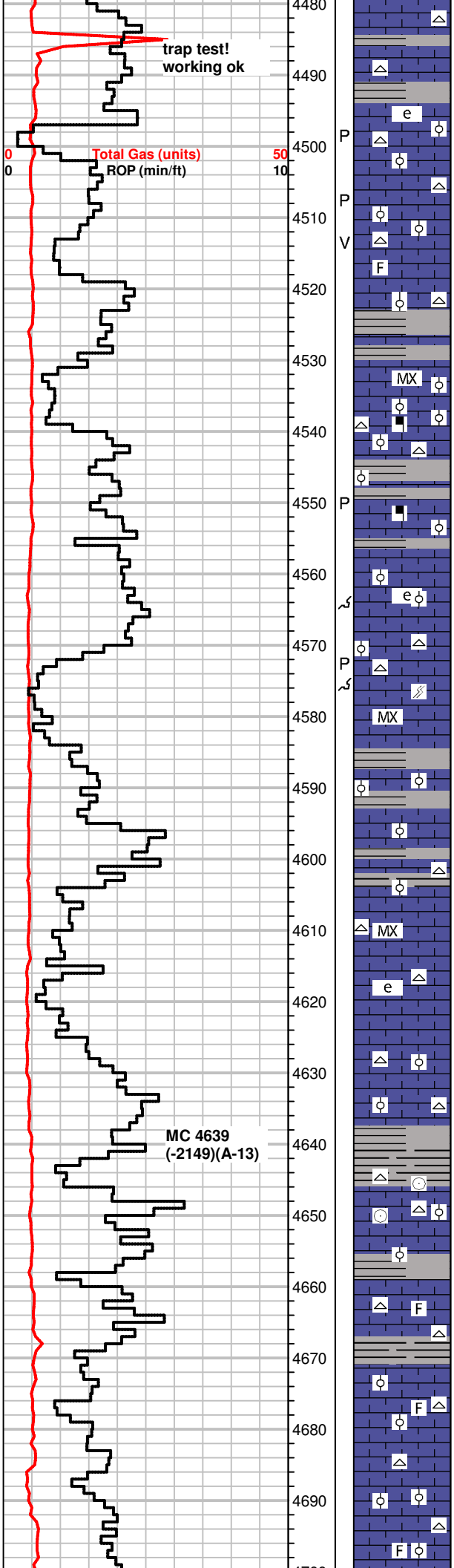
MS, crm to brn, dense, some sandy pcs, some pcs shaly, mineral fluor, NS

MS, crm to brn, earthy to sandy txt, dense, hard

MS-WS, crm to lt. brn, some off white, gritty txt, firm to hard, some micro-xln pcs, oolitic in part, fossils

MS, brn to crm, chalky matrix, micro-xln, hard, crinoids, NS Chert, white, crinoids

MS-WS, crm to off white, brn, gray, gritty txt, some m-gr oolitic, micro-xln, some chalky, mineral fluor, fossilif, scatt SH, blk



SH, gray, brn, MS-WS, gray to crm, A.A. dense
Chert, white, some weathered on edges

MS, crm, earthy txt, dense, fusilinids,
Chert, tan, white, micro oolitic

MS, crm, chalky pcs, firm, some soft, rare micro-xln pcs,
Chert, white, sli. weathered looking

MS, crm, A.A., some fossils, f-oolitic pcs, Chert, white, fossilif,
SH, gray, green

MS, crm to lt. gray, mirco-xln, sub oolitic pcs, some shaly, Chert,
white, fresh and weathered,
some SH, gray, green

MS, A.A., some brn, dense, micro-xln, sub oolitic pcs scatt.
SH, brn, gray

WS. crm to lt. tan, f-gr oolitic pcs, sandy/gritty txt, black mineral
inclusions, dense, hard pcs, dull fluor, NS
Chert, white
some SH, dk. gray, gray, green

MS-WS, lt. gray, f to m-gr oolitic, gritty txt, some dark mineral
inclusions, A.A.,
SH, dk. gray

MS, crm to lt. gray, decrease in oolitic pcs, mostly earthy txt,
chalky, NS

MS, A.A., more brn to gray pcs, sub oolitic
Chert, white, some SH, gray

MS, crm to gray, micro-xln, dense, some chalky, fractured pcs

MS, crm to off white, sub oolitic, fn-gr ooids, some dense pcs, scatt
SH, gray, brn

MS, crm to brn, micro-xln, dense, some friable, sub oolitic pcs,
Chert, white, gray
some SH, gray, green

MS, gray, brn, some crm, micro-xln, dense, some pcs silty

MS, gray to crm, A.A., 50% dense pcs, earthy, Chert, white, gray
SH, dk. gray, gray

SH, dk. gray, gray
MS, crm, sucrosic txt, hard, dense, sub oolitic pcs rare, Chert,
white, sub oolitic in part

MS, crm to tan, micro-xln, chalky matrix, soft, some dense,
fractured pcs, Chert, white, fossilif, large crinoid stem sections

MS-rare WS, crm to gray, rare fn-gr oolitic pcs, most crm, chalky,
silty, NS, Chert, white, gray, micro oolitic,
SH, gray

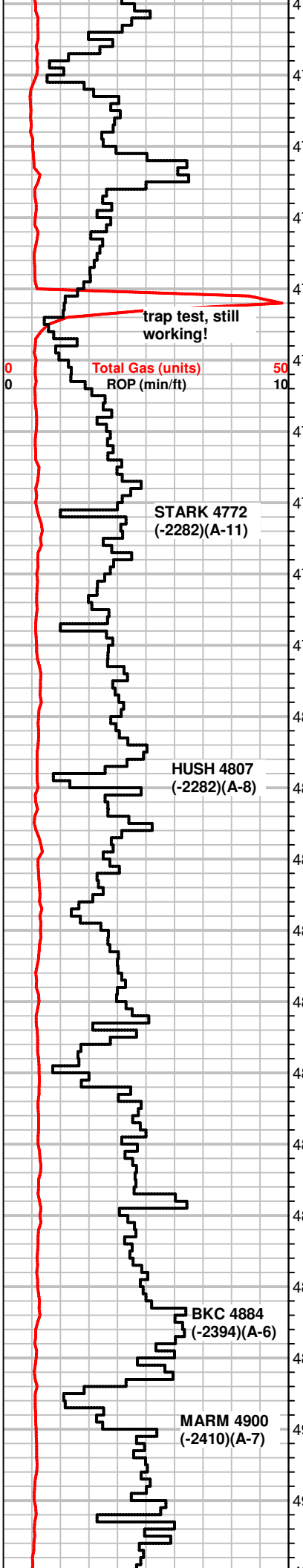
MS, A.A., crm, rare moldic pcs, brn, silty to sucrosic, dense,
Chert, white, some fossils
SH, gray, green, dk. gray

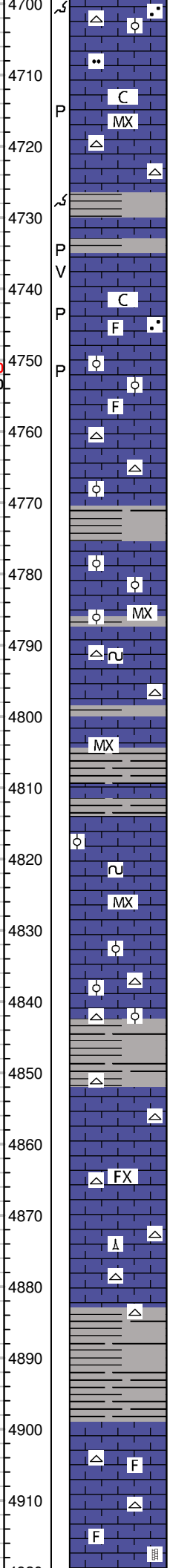
MS, crm, micro-xln to gritty txt, hard, NS
Chert, tan, white, fossilif

MS, crm to gray/brn, micro-xln, A.A., silty brn pcs scatt.
Chert, white

MS, crm, micro-xln, dense, some fn-gr oolitic pcs, firm, chalky
matrix, Chert, white
SH, gray, some brn

MS, tan to lt. gray, micro-xln, hard, sandy, some pcs fossilif, lt





MS, tan to lt. gray, micro-xln, hard, sandy, some pcs fossilif., lt edge stn in dry, Chert, white,
some SH, gray, brn, silty

SH, gray
MS, A.A, influx crm pcs, micro-xln, chalky matrix, mineral fluor, NS

MS, crm, earthy txt, gritty in part, chalky matrix in pcs, dense throughout tray, Chert, white

SH, dk. gray, gray, green/brick red, WS, tan, micro-xln, micro oolitic pcs scaatt. hard

MS, crm to tan, A.A., chalky matrix w/ dense pcs scatt.

MS, crm to brn, some gray, micro-xln to f-xln, sli sucrosic txt, silty looking, mostly dense, rare chalkypcs, fossilif to sub oolitic
some SH, gray, brick red, rare blk, brn

MS, crm A.A., mainly dense w/ fossils, no fluor, NS
Chert, white

SH, gray, green, influx in large pcs

MS, crm, micro-xln, chalky matrix w/ sub oolitic particles, m-gr

MS, tan to brn, micro-xln, micro oolitic pcs, hard dense, mineral fluor,
SH, gray, sandy w glauc and pyrite particles

MS, crm, A.A. barren in dry, NS, Chert, white
some SH, dk. gray, green

MS, crm to gray, micro-xln, some chalky pcs, brittle to hard

SH, dk. gray, gray, green, brick red

MS, crm, earthy, chalky matrix, soft, rare crinoids

MS, A.A., inc in lt. gray pcs, mic-xln, some gritty pcs, v.f- glauc inclusions
some SH, blk, gray

MS, gray to crm, f-xln, silty, some dense pcs, NS
scatt SH, blk, gray

MS, crm to off white, chalky matrix, sub to micro-oolitic pcs in matrix, Chert, white, rare blk

MS, crm to off white, A.A., mic-xln, crinoids/fossilif, Chert, white, fossilf, scatt blk SH, looks rounded

MS, crm to off white, mic-xln to f-xln, gritty txt, some dense pcs, no fluor, NS, Chert, white, spicules

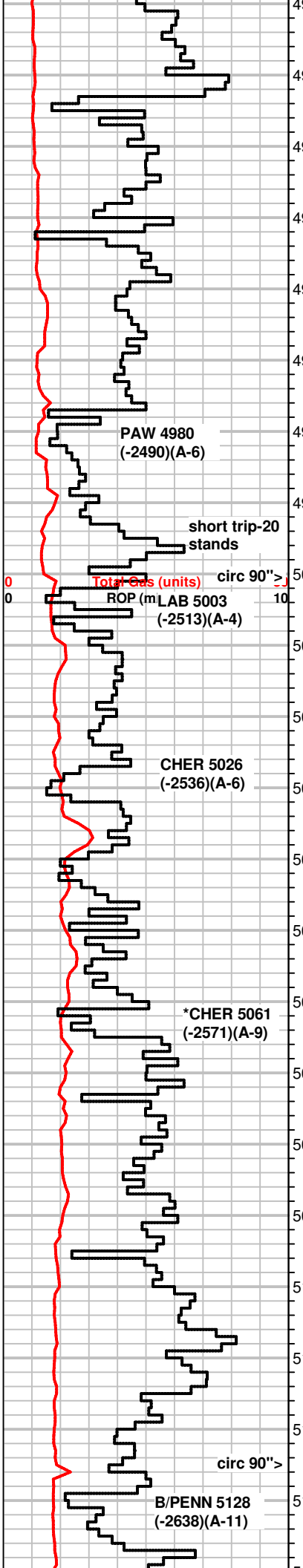
MS, A.A., some gray pcs, dense, still carrying Chert, white, spicules

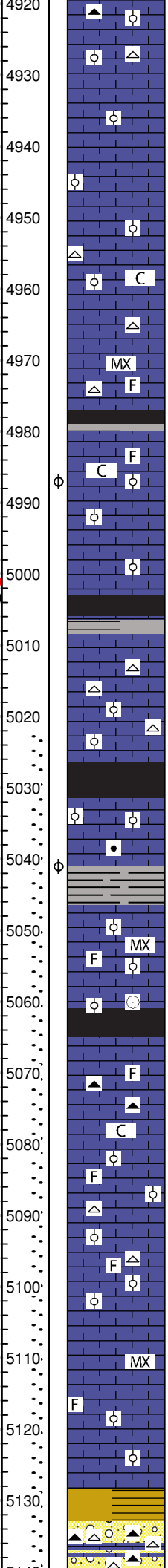
MS, crm, to off white, scatt brn pcs, mic-xln, some fossils, chalky pcs throughout, Chert, bone white, fossilif.
SH, dk. gray, gray, sandy to silty in part

SH, dk. gray to gray, some green

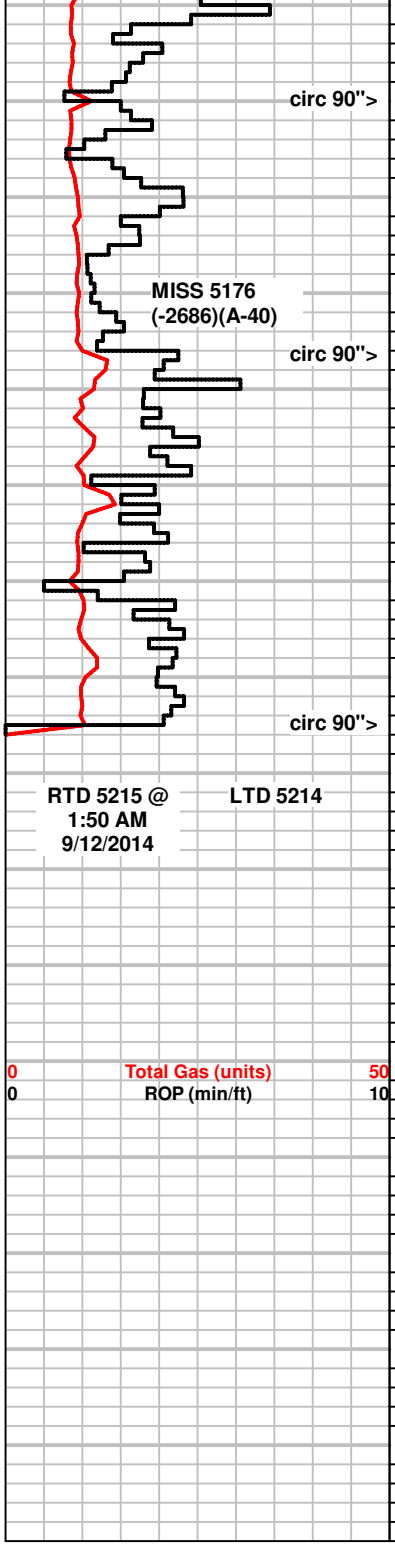
MS-WS, crm to tan, mic-sln, dense, some chalky, few pcs WS w/ fossils, some Chert, white, dec. amt

MS, crm to br, some lt. gray, vf-xln, to earthy txt, platy pcs, brittle, some calcite veins, Chert, brn, white, fossilif, NS





MS, lt. gray to off white, mic-xln, dense, some chalky pcs, sub oolitic pcs scatt/rare, Chert, blk, rare Some SH, green, blk, gray	
MS, crm to brn/gray, mic-xln, some pcs gritty txt, rare sub oolitic f-xln pcs, hard to firm, SH, gray, rare blk	
MS, crm, f-xln, some chalky pcs, sub oolitic pcs scatt, silky looking, dense, NS	
MS, A.A., inc in mic-xln, sub oolitic pcs, fossilif, hard, NS SH, dk. gray, green	
MS, crm, f to mic-xln, dense, hard, scatt chalky pcs, rare Chert, white some SH, gray, green, sandy in part	
Influx MS, tan to crm, mic-xln, firm to hard, scatt fossilif pcs, Chert, white, opaque, tan, some pyrite	
SH, blk, dk. gray	**+2 UGK, shale gas**
MS-WS, crm to off white, chalky matrix in part, micro oolitic to sub oolitic pcs, some fossils, scatt bright fluor (3 pcs), 1 pc w/ slow milky cut, others have residual ring cut, faint odor in bag, good odor when pcs are crushed/broken open, no free oil,	**gas increase +3 units, appears to hover around 8 units total now, w/ no true recycle?**
MS, crm, chalky to mic-xln, mainly dense pcs, no fluor, no stn	
SH, blk, gray, some sli. sandy	**+2 UGK, shale gas**
MS, crm to off white, f to mic-xln, hard to brittle, most dense, dull fluor, NS	
MS-WS, crm to brn, mottled pcs common, hard, sub oolitic pcs Chert, white, fossils	
SH, blk, dk. brn, some pyrite	**+2 UGK, shale gas**
MS, crm, mic-xln, sli. earthy txt, micro oolitic, frim, brittle, NS	
MS-WS, crm to tan, mottled pcs w/ black specs, mic-xln to earthy txt, micro oolitic pcs scatt. hard, No visible show	**+5 UGK**
SH, blk, dk. brn, gray, some bleeding gas	
MS, tan to crm, mostly chalky pcs, mic-xln pcs scatt, some pcs w/ m-gr brn ooids, NS	**DST #3 5022-5214 30-60-60-90 WB BOB/22min NBB**
MS, crm to brn, some gray, f-xln, fossilif, crinoids and m-gr oolitic particles in xln matrix. hard, rare bright fluor(1 pc) no cut	**WB BOB/21min NBB**
SH, blk, green	**135' SGCM (2g, 98m) IH 2604# IF 36-56# ISIP 847# FF 67-86# FSIP 681# FH 2470# Temp 116*F**
MS-WS, gray to grn, micro xln, dense, some pcs w/ chalky matrix, fossilif, Chert, blk, NS	
WS-PS, brn to crm, mic-xln, sli chalky pcs, m-gr ooids, fossils, hard, carrying some SH, blk, green	
MS-WS, crm to tan to brn, mic-xln, waxy luster, mottled to sub oolitic, some fossils, some pcs dull fluor, Chert, white tan, ringed-oolitic pcs	
MS, A.A. Some SH, dk. gray, green red	
WS, crm to tan, mic-xln, micro oolitic, dense, tite matrix, fossilif. NS	
MS-WS, crm, chalky matrix, some brn pcs, dense, mic-xln, no flour, 60min A.A., very faint odor in bag, 3 pcs w/ fluor, slow milky cut from 2 pcs.	**DST #1 5108-5175 30-60-60-120 SB BOB/20sec GTS/18min Ga 1/4in ck 51.399MCFG/20min 51.399MCFG/30min SBB built to 6in SB BOB/GTS/Immed TSTM NBB**
SH, sea green, maroon, mustard yellow, gray, silty	
MS, crm, f to mic-xln, firm to hard, oolitic pcs, mostly chalky, NS	



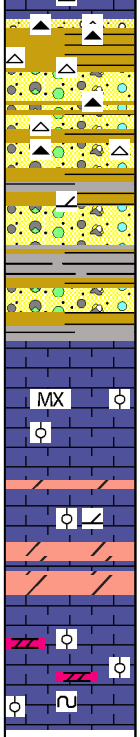
MISS 5176
(-2686)(A-40)

RTD 5215 @
1:50 AM
9/12/2014

LTD 5214

0 Total Gas (units) 50
0 ROP (min/ft) 10

5140
5150
5160
5170
5180
5190
5200
5210
5220
5230
5240
5250
5260
5270
5280
5290



SH, varicolored, Chert, bone white, fresh, tan, brn, yellow, SS clusters, fn-gr, sorted, some indiv. co-gr Qtz xtals, still carrying MS, some pcs w/ flour and show from above?

Cong. SH, varicolored, Chert, yellow, white, blk, orange, fossilif, SS clusters, f-gr, loose Qtz co-grs

WS-MS, crm to off white, f-xln, chalky, brittle, glauc specs, sli. dolomitic?, rare pcs bright fluor, spotty edge stn, no cut, no odor

Dolo, gray to crm, vf-suc, firm, gold mineral fluor w/ spotty bright fluor, cut when broken(1pc), 1 pc w/ live oil droplets on it, streaming cut, faint odor in bag, 90"-few pcs(6) w/gold fluor, streaming cut, very faint odor in 90 bag

WS, crm to off white, mic-xln, micro oolitic pcs, hard, dull min. fluor in pcs, NS

MS-WS, vrm to off white, A.A., dense, scatt fossils, no fluor, NS

Scatt. Dolo, stringers?, tan to brn, vf-suc txt, firm, dull fluor, no cut, WS, off white, f-xln txt, oolitic in pcs, dec. amt, NS

Dolo., gray to brn, vf-suc. to f-xln txt, hard pcs scatt, most firm, bright mineral fluor, cut out of 1/3 of pcs tested

Dolo, A.A., bright mineral fluor, some milky cut, dec amt of dolo. WS-PS, off white, micro oolitic pcs in chalky matrix, firm to hard, scatt glauc specs, no fluor, NS

NBB
REC:
5004' GIP
90' SGCM (2g,98m)
IH 2627#
IF 64-58#
ISIP 197#
FF 39-47#
FSIP 254#
FH 2582#
Temp 115*F

+3 UGK

DST #2 5182-5215
30-60-30-60
WB built to 1/2in
NBB
WB surf blow
NBB
REC:
40' Mud
IH 2586#
IF 28-33#
ISIP 1486#
FF 37-39#
FSIP 1247#
FH 2607#
Temp 117*F