

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	McCarty 1-27
Doc ID	1294540

Tops

Name	Top	Datum
Heebner Shale	4328	(-1808)
Brown Limestone	4466	(-1946)
Lansing	4475	(-1955)
Stark Shale	4813	(-2293)
Pawnee	5021	(-2501)
Cherokee Shale	5067	(-2547)
Base Penn Limestone	5167	(-2647)
Morrow Sand	5185	(-2665)
Mississippian	5189	(-2669)
LTD	5362	(-2842)

Summary of Changes

Lease Name and Number: McCarty 1-27

API/Permit #: 15-057-20967-00-00

Doc ID: 1294540

Correction Number: 1

Approved By: NAOMI JAMES

Field Name	Previous Value	New Value
Approved Date	01/22/2016	03/02/2016
Completion Or Recompletion Date	10/16/2016	10/16/2015



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1279736
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

CONFIDENTIAL 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: _____

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067890

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

SERVICE POINT: Cad, ks

DATE <u>10-6-15</u>	SEC <u>27</u>	TWP <u>28S</u>	RANGE <u>23W</u>	CALLED OUT	ON LOCATION <u>4:10 pm</u>	JOB START <u>9:52 am</u>	JOB FINISH <u>5:45 pm</u>
LEASE <u>McClarty</u>	WELL # <u>1-27</u>	LOCATION <u>Bloom ks</u>			COUNTY <u>Law</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Duke 9

TYPE OF JOB Surface

HOLE SIZE 12 1/4 **T.D.** 652

CASING SIZE 8 5/8 **DEPTH** 647

TUBING SIZE **DEPTH**

DRILL PIPE **DEPTH**

TOOL **DEPTH**

PRES. MAX **MINIMUM**

MEAS. LINE **SHOE JOINT** 42.38

CEMENT LEFT IN CSG. 42.38

PERFS.

DISPLACEMENT 38 bbls

EQUIPMENT

PUMP TRUCK CEMENTER Felipe Rodriguez
903-501 HELPER Ramon Escarcobea

BULK TRUCK DRIVER Jose Calderon
994-467

BULK TRUCK DRIVER

OWNER Vincent Oil

CEMENT
AMOUNT ORDERED 160 sks 65/35 Poz Class A
100 sks Class A Common

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@		
AJWC- Class A	160 SKS @	19.88	3180.80
Calcium Chloride	48# @	1.10	459.80
Cellophane Plaque	40# @	2.97	118.80
Class A Common	100 SKS @	17.90	1790.00
Calcium Chloride	282# @	1.10	310.20
	@		
	@		
	@		

TOTAL 5859.60

DISCOUNT 50% 2929.80

REMARKS:

CHARGE TO: Vincent Oil

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

HANDLING	<u>291.00 PTS</u>	@	<u>2.48</u>	<u>721.68</u>
MILEAGE	<u>496 ton</u>		<u>2.75</u>	<u>1364.00</u>
DEPTH OF JOB				
PUMP TRUCK CHARGE	<u>1</u>		<u>1512.25</u>	<u>1512.25</u>
EXTRA FOOTAGE	<u>1</u>	@	<u>275.00</u>	<u>275.00</u>
HV MILEAGE	<u>40 mile</u>	@	<u>7.70</u>	<u>308.00</u>
LV MILEAGE	<u>40 mile</u>	@	<u>4.40</u>	<u>176.00</u>
Addition Hr	<u>1</u>	@	<u>440.00</u>	<u>440.00</u>
		@		

TOTAL 4776.93

DISCOUNT 50% 2398.46

PLUG & FLOAT EQUIPMENT

<u>Top Rubber Plug</u>	@	<u>131.00</u>	<u>131.00</u>
	@		
	@		
	@		
	@		

TOTAL 131.00

DISCOUNT 50% 65.50

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.

PRINTED NAME Emigdio Rojas

SIGNATURE Emigdio Rojas

SALES TAX (If Any) _____

TOTAL CHARGES 10787.53

DISCOUNT 5893.77/50% IF PAID IN 30 DAYS

NET TOTAL 5893.77 IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067372

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

SERVICE POINT:
Liberal (21)

DATE <u>10-16-15</u>	SEC. <u>27</u>	TWP. <u>28S</u>	RANGE <u>23W</u>	CALLED OUT	ON LOCATION	JOB START <u>10:30pm</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>McCarty</u>		WELL # <u>1-27</u>	LOCATION <u>Bloom KS, CR118 North to</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>			<u>wilmore rd 3 East. to 121, 1 north, exit into</u>				

CONTRACTOR <u>Duke #9</u>
TYPE OF JOB <u>P.T.A</u>
HOLE SIZE <u>8 5/8</u> T.D. <u>1710</u>
CASING SIZE _____ DEPTH _____
TUBING SIZE <u>4.5 166 #</u> DEPTH <u>1710</u>
DRILL PIPE _____ DEPTH _____
TOOL _____ DEPTH _____
PRES. MAX _____ MINIMUM _____
MEAS. LINE _____ SHOE JOINT _____
CEMENT LEFT IN CSG. _____
PERFS. _____
DISPLACEMENT <u>18,866l</u>

EQUIPMENT

PUMP TRUCK CEMENTER <u>Aldo Espinoza</u>
<u>774-550</u> HELPER <u>Alex Ayala</u>
BULK TRUCK
<u>993-1066</u> DRIVER <u>Lenny Barza</u>
BULK TRUCK
_____ DRIVER _____

REMARKS:

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

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.

PRINTED NAME Emigdio Rojas
SIGNATURE Emigdio Rojas

OWNER _____
CEMENT AMOUNT ORDERED <u>170 SK 60/40/4</u>
COMMON _____ @ _____
POZMIX _____ @ _____
GEL _____ @ _____
CHLORIDE _____ @ _____
ASC _____ @ _____
<u>Allied 40/60/4 Poz Class A</u> @ _____
<u>170 SK</u> @ <u>18.92</u> <u>3,216.40</u>
<u>Collophane Plakes 43 #</u> @ <u>2.97</u> <u>127.71</u>
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____

TOTAL 3,344.11
DISCOUNT 50 % 1672.06

SERVICE

HANDLING <u>182.58</u> <u>M³</u> @ <u>2.48</u> <u>452.80</u>
MILEAGE <u>304.8</u> <u>T-m</u> @ <u>2.75</u> <u>838.20</u>
DEPTH OF JOB _____
PUMP TRUCK CHARGE _____ <u>2,249.84</u>
EXTRA FOOTAGE _____ @ _____
HV MILEAGE <u>40 mi</u> @ <u>7.70</u> <u>308.00</u>
LV MILEAGE <u>40 mi</u> @ <u>4.40</u> <u>176.00</u>
<u>Drill pin 1</u> @ <u>168.75</u> <u>168.75</u>
_____ @ _____

TOTAL 4,193.59
DISCOUNT 50 % 2096.80

PLUG & FLOAT EQUIPMENT

_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
_____ @ _____
TOTAL <u>0</u>
DISCOUNT _____ % _____

SALES TAX (If Any) _____
TOTAL CHARGES 7,537.70
DISCOUNT 3768.85/150% IF PAID IN 30 DAYS
NET TOTAL 3,768.85 IF PAID IN 30 DAYS



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 155 N Market Ste 700
 Wichita, Ks 67202
 ATTN: Tom Dudgeon

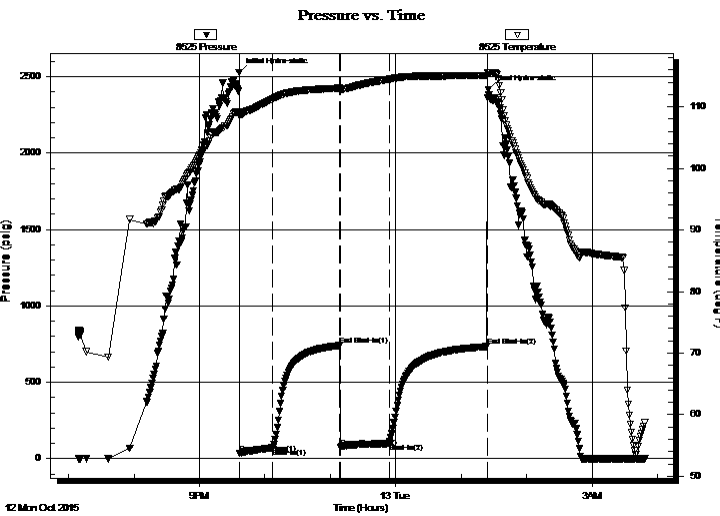
27-28S-23W Ford
McCarty 1-27
 Job Ticket: 57914 **DST#: 1**
 Test Start: 2015.10.12 @ 19:09:06

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:37:06
 Time Test Ended: 03:48:51
 Interval: **5004.00 ft (KB) To 5040.00 ft (KB) (TVD)**
 Total Depth: 5040.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2520.00 ft (KB)
 2508.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press @ Run Depth: 98.62 psig @ 5005.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.10.12 End Date: 2015.10.13 Last Calib.: 2015.10.13
 Start Time: 19:09:07 End Time: 03:48:51 Time On Btm: 2015.10.12 @ 21:36:21
 Time Off Btm: 2015.10.13 @ 01:24:51

TEST COMMENT: IF: Weak Blow, BOB in 20 minutes
 IS: No Blow Back
 FF: Weak Blow, BOB in 44 minutes
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2528.28	109.12	Initial Hydro-static
1	33.41	108.57	Open To Flow (1)
31	70.47	111.29	Shut-In(1)
93	740.23	113.03	End Shut-In(1)
93	75.81	112.84	Open To Flow (2)
138	98.62	114.45	Shut-In(2)
228	733.47	115.11	End Shut-In(2)
229	2416.82	115.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	133 GIP	0.00
120.00	MCW 30%M 70%W	0.59
62.00	SOCM 2%O 98%M	0.35

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

27-28S-23W Ford

155 N Market Ste 700
Wichita, Ks 67202

McCarty 1-27

Job Ticket: 57914

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2015.10.12 @ 19:09:06

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:

58000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	133 GIP	0.000
120.00	MCW 30%M 70%W	0.590
62.00	SOCM 2%O 98%M	0.350

Total Length: 182.00 ft Total Volume: 0.940 bbl

Num Fluid Samples: 0

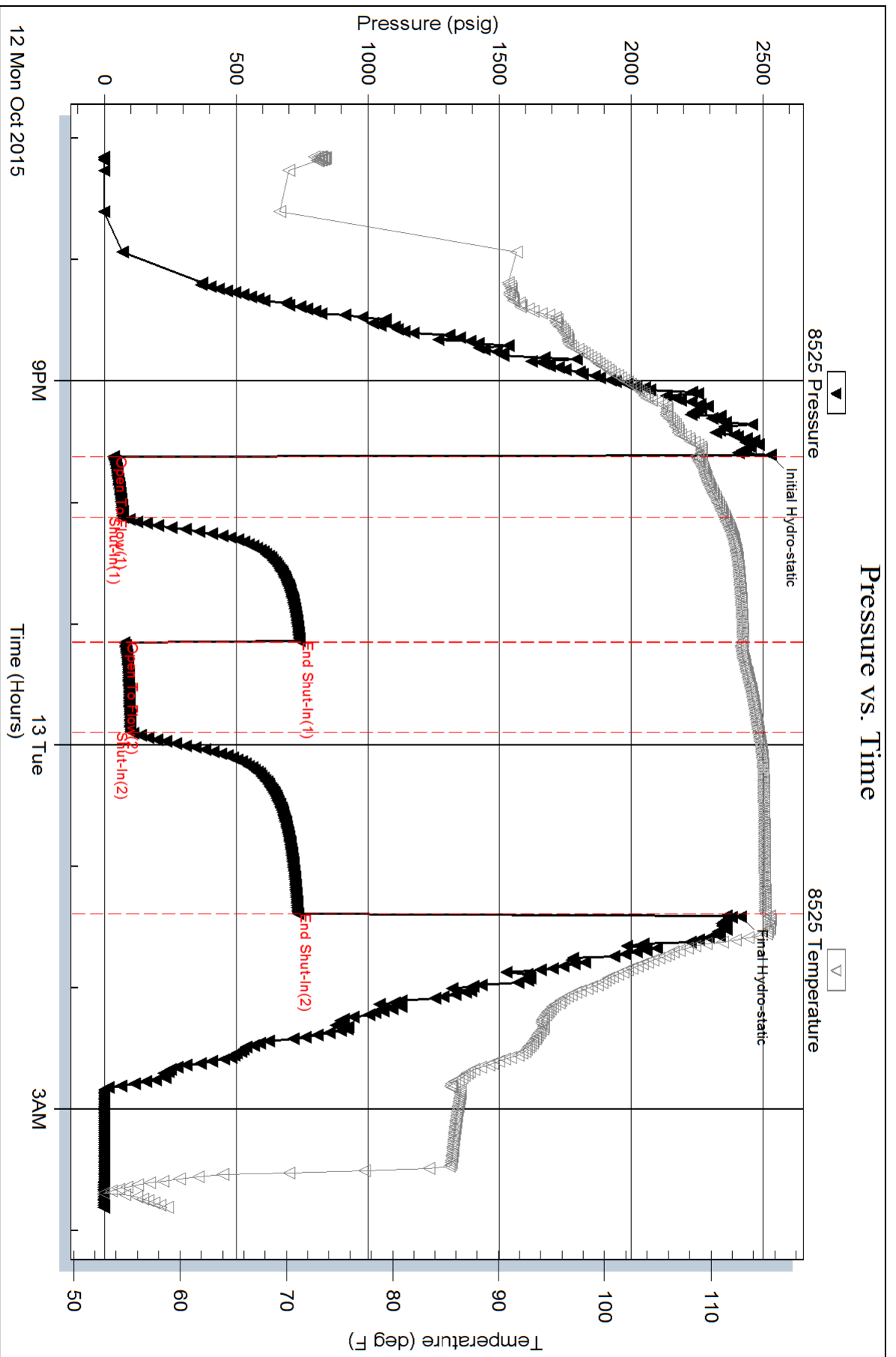
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 60 degrees





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corporation

27-28S-23W Ford,KS

155 N Market Ste 700
Wichita, KS 67202

McCarty #1-27

Job Ticket: 57915

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2015.10.13 @ 21:52:19

GENERAL INFORMATION:

Formation: **Morrow/Penn**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:06:04

Time Test Ended: 07:11:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 5140.00 ft (KB) To 5184.00 ft (KB) (TVD)

Reference Elevations: 2520.00 ft (KB)

Total Depth: 5184.00 ft (KB) (TVD)

2508.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 8525 Inside

Press@RunDepth: 22.29 psig @ 5141.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.10.13

End Date:

2015.10.14

Last Calib.: 2015.10.14

Start Time: 21:52:20

End Time:

07:11:49

Time On Btm: 2015.10.14 @ 00:05:19

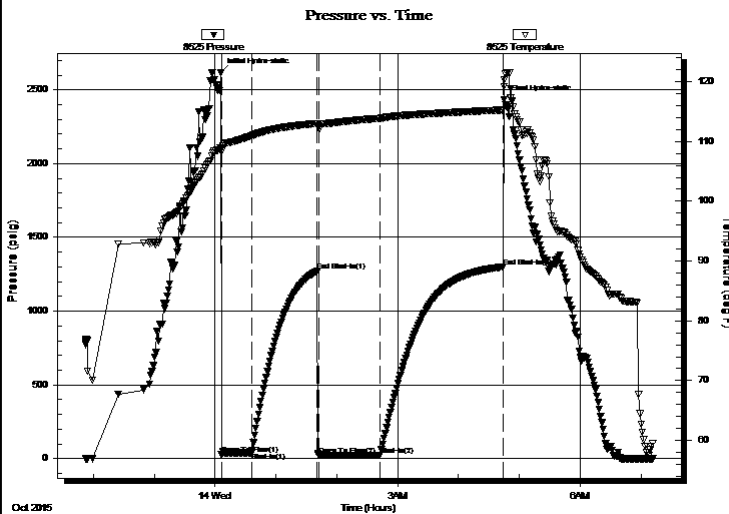
Time Off Btm: 2015.10.14 @ 04:45:04

TEST COMMENT: IF: Strong Blow , BOB in 4 minutes

IS: No Blow Back

FF: Strong Blow , BOB immediate, GTS in 18 minutes, TSTM, Caught Sample

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2614.54	108.99	Initial Hydro-static
1	31.60	108.39	Open To Flow (1)
31	40.57	110.95	Shut-In(1)
96	1272.58	113.01	End Shut-In(1)
97	23.69	112.43	Open To Flow (2)
158	22.29	113.86	Shut-In(2)
279	1299.53	115.27	End Shut-In(2)
280	2432.37	119.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	5125 GIP	0.00
10.00	GCM 10%G 90%M	0.05

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

27-28S-23W Ford,KS

155 N Market Ste 700
Wichita, KS 67202

McCarty #1-27

Job Ticket: 57915

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2015.10.13 @ 21:52:19

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:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6700.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	5125 GIP	0.000
10.00	GCM 10%G 90%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

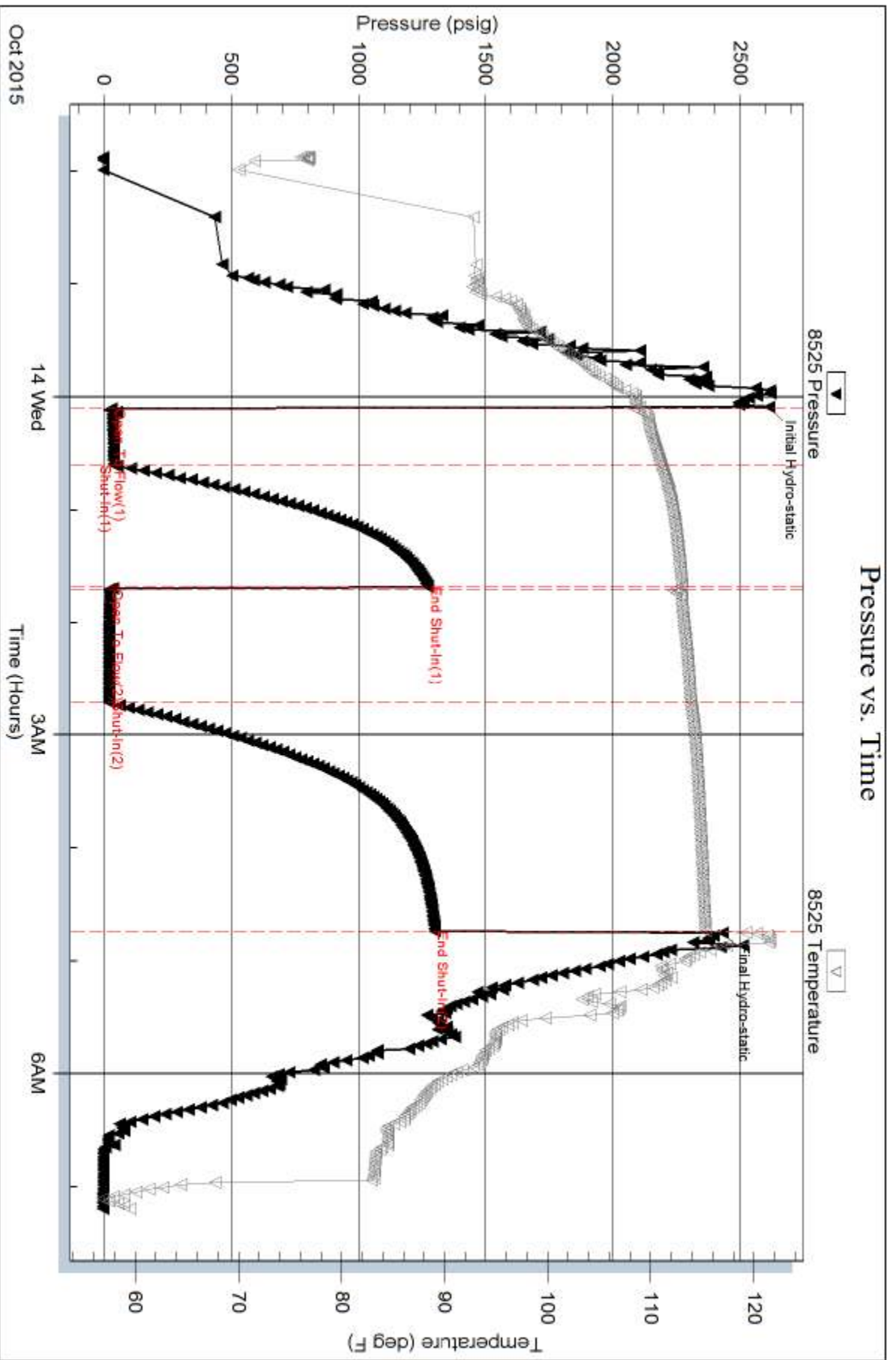
Serial #: 8525

Inside

Vincent Oil Corporation

McCarthy #1-27

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 57915

Printed: 2015.10.14 @ 09:18:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 155 N Market Ste 700
 Wichita, Ks 67202
 ATTN: Tom Dudgeon

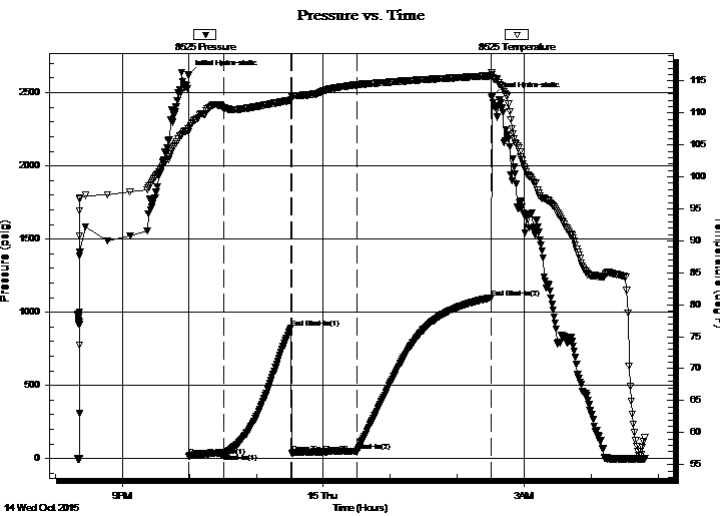
27-28S-23W Ford
McCarty 1-27
 Job Ticket: 57916 **DST#: 3**
 Test Start: 2015.10.14 @ 20:19:45

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 21:59:30
 Tester: Leal Cason
 Time Test Ended: 04:48:00
 Unit No: 74
 Interval: **5198.00 ft (KB) To 5232.00 ft (KB) (TVD)**
 Reference Elevations: 2520.00 ft (KB)
 Total Depth: 5232.00 ft (KB) (TVD)
 2508.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press@RunDepth: 51.74 psig @ 5199.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.10.14 End Date: 2015.10.15 Last Calib.: 2015.10.15
 Start Time: 20:19:46 End Time: 04:48:00 Time On Btm: 2015.10.14 @ 21:59:00
 Time Off Btm: 2015.10.15 @ 02:31:15

TEST COMMENT: IF: Weak 1/2 inch Blow
 IS: No Blow Back
 FF: Strong Blow , BOB in 5 minutes
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2621.72	107.53	Initial Hydro-static
1	17.67	107.02	Open To Flow (1)
32	33.00	110.78	Shut-In(1)
92	893.34	111.98	End Shut-In(1)
93	36.14	112.55	Open To Flow (2)
152	51.74	114.40	Shut-In(2)
271	1098.74	115.80	End Shut-In(2)
273	2469.98	115.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1195 GIP	0.00
65.00	OCM 10%O 90%M	0.32

* 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

27-28S-23W Ford

155 N Market Ste 700
Wichita, Ks 67202

McCarty 1-27

Job Ticket: 57916

DST#: 3

ATTN: Tom Dudgeon

Test Start: 2015.10.14 @ 20:19:45

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	1195 GIP	0.000
65.00	OCM 10%O 90%M	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8525

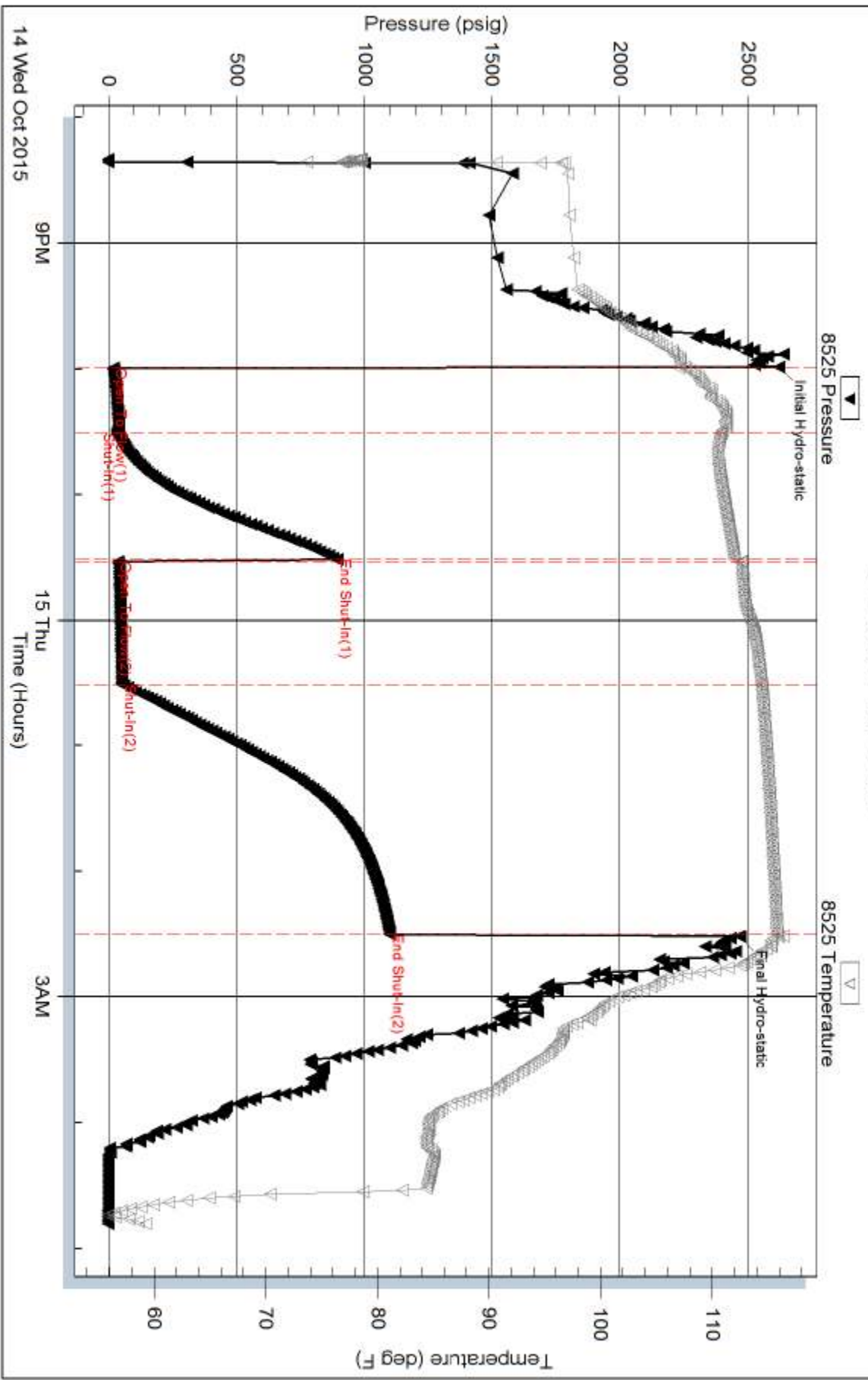
Inside

Vincent Oil Corporation

McCarty 1-27

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 57916

Printed: 2015.10.15 @ 08:10:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 155 N Market Ste 700
 Wichita, Ks 67202
 ATTN: Tom Dudgeon

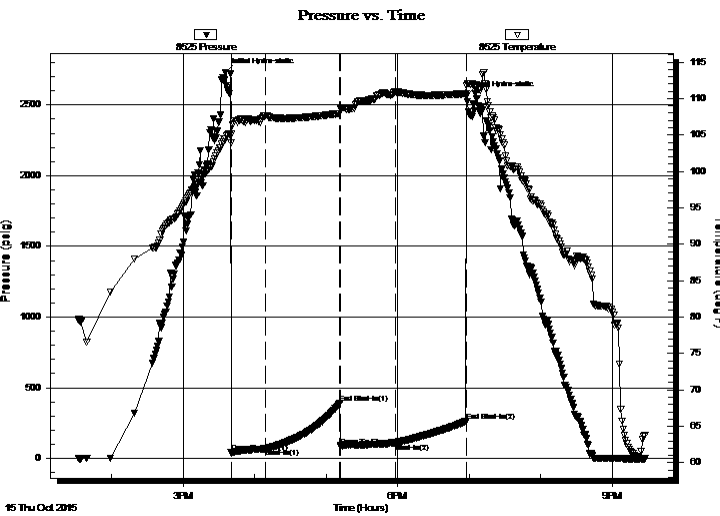
27-28S-23W Ford
McCarty 1-27
 Job Ticket: 57917 **DST#: 4**
 Test Start: 2015.10.15 @ 13:32:07

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 15:40:07
 Tester: Leal Cason
 Time Test Ended: 21:27:22
 Unit No: 74
Interval: 5197.00 ft (KB) To 5260.00 ft (KB) (TVD)
 Reference Elevations: 2520.00 ft (KB)
 Total Depth: 5260.00 ft (KB) (TVD) 2508.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 12.00 ft

Serial #: 8525 Inside
 Press @ Run Depth: 109.52 psig @ 5198.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.10.15 End Date: 2015.10.15 Last Calib.: 2015.10.15
 Start Time: 13:32:08 End Time: 21:27:22 Time On Btm: 2015.10.15 @ 15:35:22
 Time Off Btm: 2015.10.15 @ 18:57:37

TEST COMMENT: IF: Weak 1/4 inch Blow
 IS: No Blow Back
 FF: Weak 1/8 inch Blow
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2730.85	104.41	Initial Hydro-static
5	40.94	103.97	Open To Flow (1)
34	69.92	107.69	Shut-In(1)
96	390.64	107.97	End Shut-In(1)
97	87.68	108.59	Open To Flow (2)
143	109.52	110.93	Shut-In(2)
202	261.74	110.68	End Shut-In(2)
203	2563.77	111.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Mud	0.59

* 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 700
Wichita, Ks 67202
ATTN: Tom Dudgeon

27-28S-23W Ford
McCarty 1-27
Job Ticket: 57917 **DST#: 4**
Test Start: 2015.10.15 @ 13:32:07

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6700.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Mud	0.590

Total Length: 120.00 ft Total Volume: 0.590 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

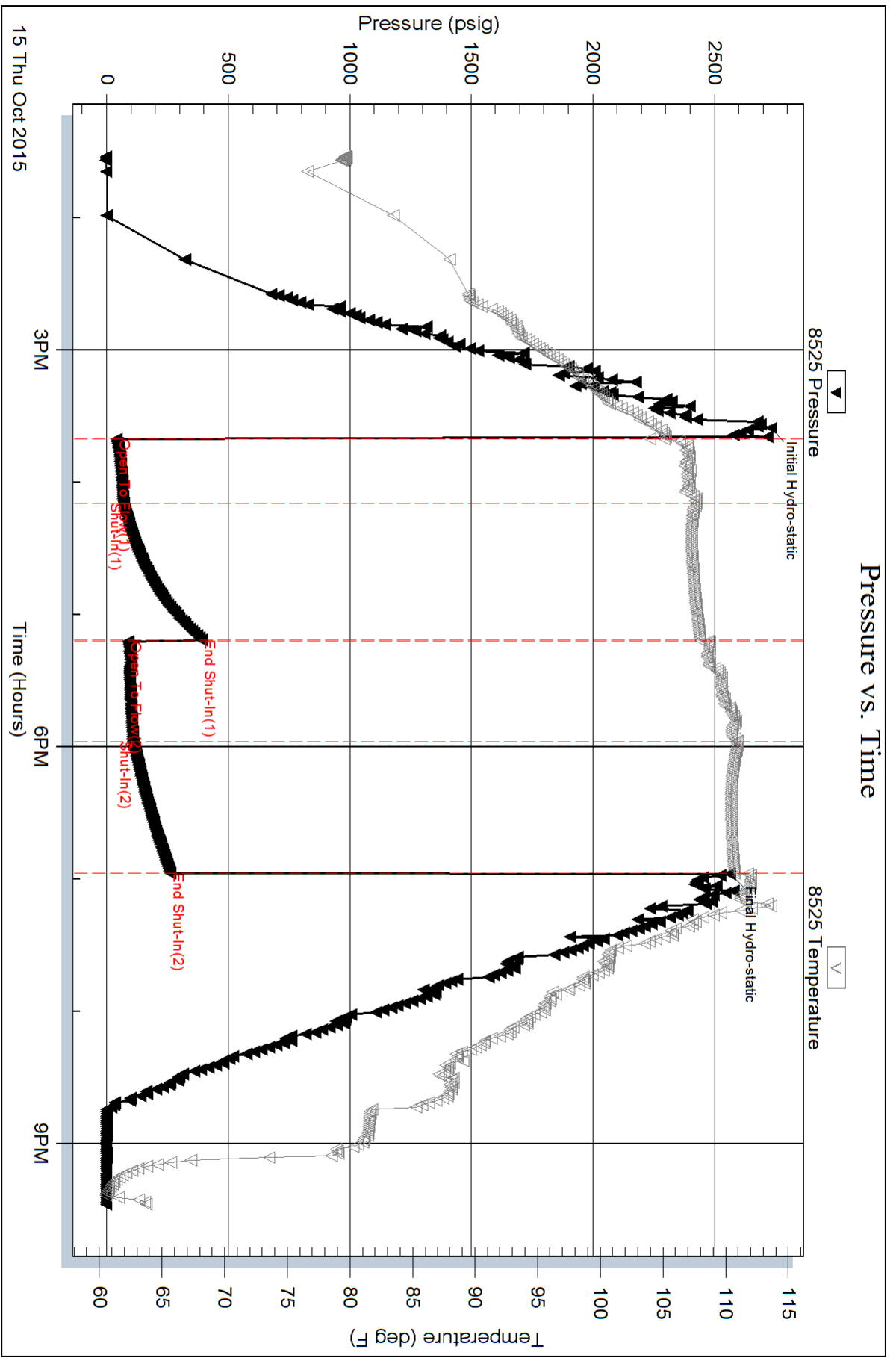
Serial #: 8525

Inside

Vincent Oil Corporation

McCarthy 1-27

DST Test Number: 4





Scale 1:240 Imperial

Well Name: McCarty 1-27
Surface Location: NW SW NW SE 27-28S-23W
Bottom Location:
API: 15-057-20967-00-00
License Number: 5004
Spud Date: 10/5/2015 Time: 6:30 PM
Region: SW KS
Drilling Completed: 10/16/2015 Time: 4:58 AM
Surface Coordinates: 1750 FSL & 2355 FEL
Bottom Hole Coordinates:
Ground Elevation: 2507.00ft
K.B. Elevation: 2520.00ft
Logged Interval: 4250.00ft To: 5360.00ft
Total Depth: 5360.00ft
Formation: MISS
Drilling Fluid Type: Chemical

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: McCarty 1-27
Location: NW SW NW SE 27-28S-23W API: 15-057-20967-00-00
Pool: Development Field: Mulberry Creek
State: KS Country: USA

CONTRACTOR

Contractor: Duke Drilling Co. Inc.
Rig #: 9
Rig Type: Rotary
Spud Date: 10/5/2015 Time: 6:30 PM
TD Date: 10/16/2015 Time: 4:58 AM
Rig Release: 10/17/2015 Time: 1:00 AM

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

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: 99.8215445
Latitude: 37.5768676

Longitude: -99.8215443
 N/S Co-ord: 1750 FSL
 E/W Co-ord: 2355 FEL

Latitude: 37.5768876

ELEVATIONS

K.B. Elevation: 2520.00ft Ground Elevation: 2507.00ft
 K.B. to Ground: 13.00ft

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
LTD	5362.00	5362.00
RTD	5360.00	5362.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	10/19/2015	3732.00ft	5360.00ft

OPEN HOLE LOGS

Logging Company: CJ Casedhole Solutions
 Logging Engineer: Jason Cappellucci
 Truck #: 4010
 Logging Date: 10/16/2015 Time Spent: 5
 # Logs Run: 3 # Logs Run Successful: 3

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
DUAL INDUCTIV	0.00ft	5362.00ft	3.00		1
CNDE/NEU/PE	4250.00ft	5362.00ft	3.00		1
MICRO	4250.00ft	5362.00ft	2.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
10/19/2015	0.00ft	5362.00ft	LOGS RAN SUCCESSFULLY

CASING SUMMARY

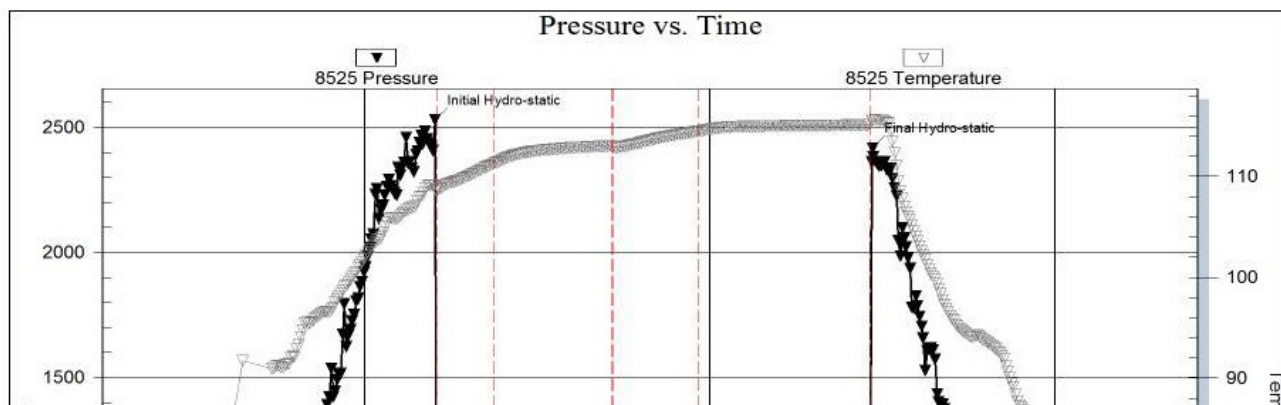
	Surface	Intermediate	Main		
Bit Size	12.25 in		7.88 in		
Hole Size	12.25 in		7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	652 ft	23#	15	
Int Casing					
Prod Casing	N/A in				

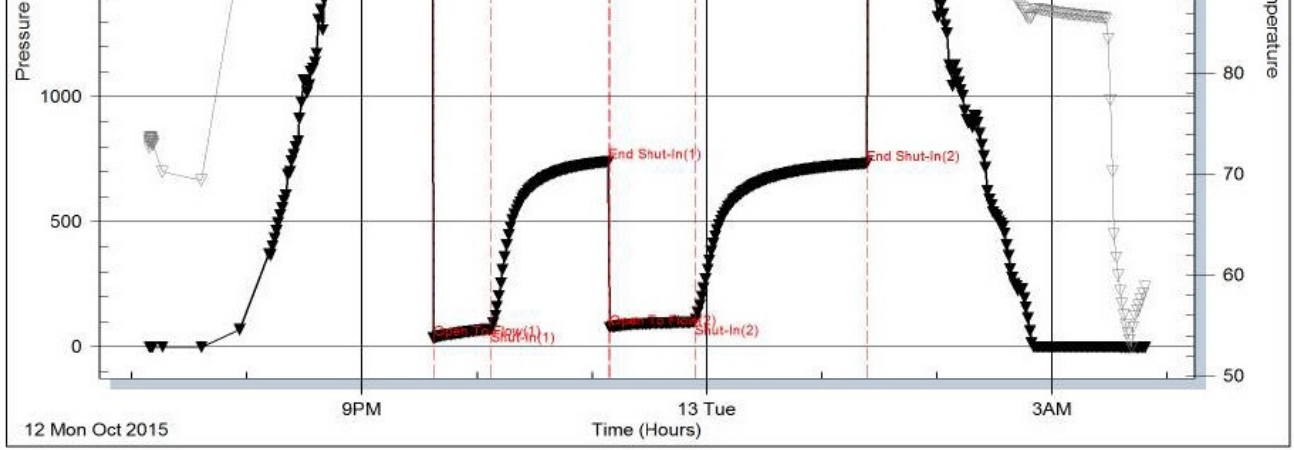
CASING SEQUENCE

Type	Hole Size	Casing Size	At
Surface Casing	12.25 in	8.63	652.00 ft

DST #1

Serial #: 8525 Inside Vincent Oil Corporation McCarty #1-27 DST Test Number: 1





Triobite Testing, Inc

Ref. No: 57914

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DST #2

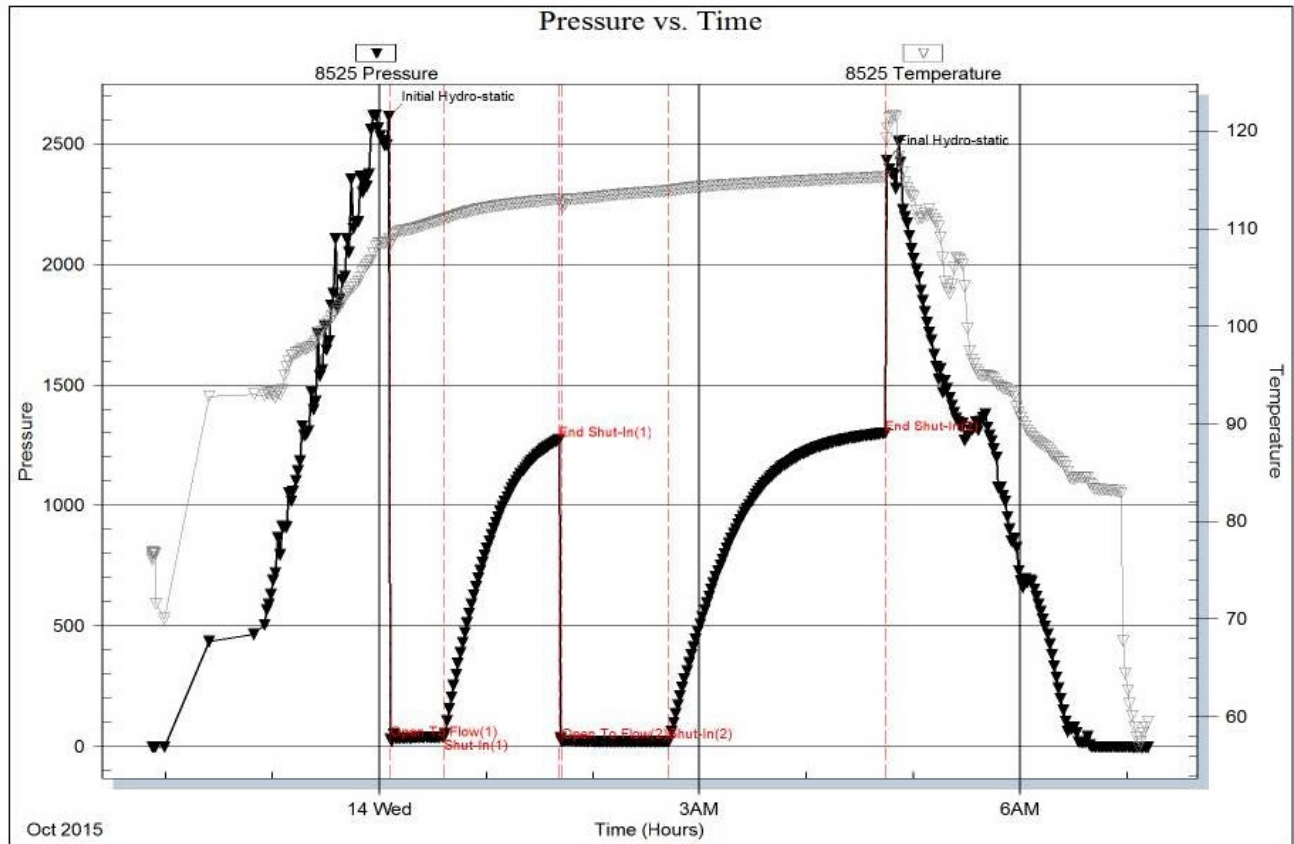
Serial #: 8525

Inside

Vincent Oil Corporation

McCarty #1-27

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 57915

Printed: 2015.10.16 @ 15:25:24

DST #3

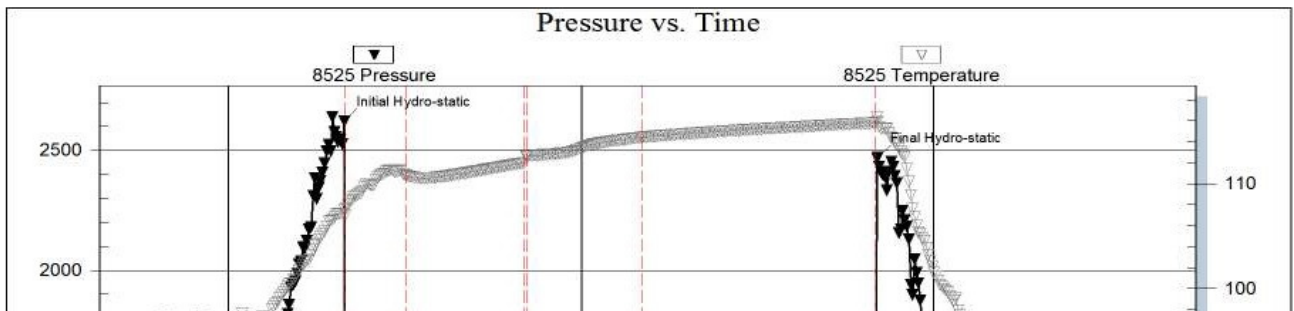
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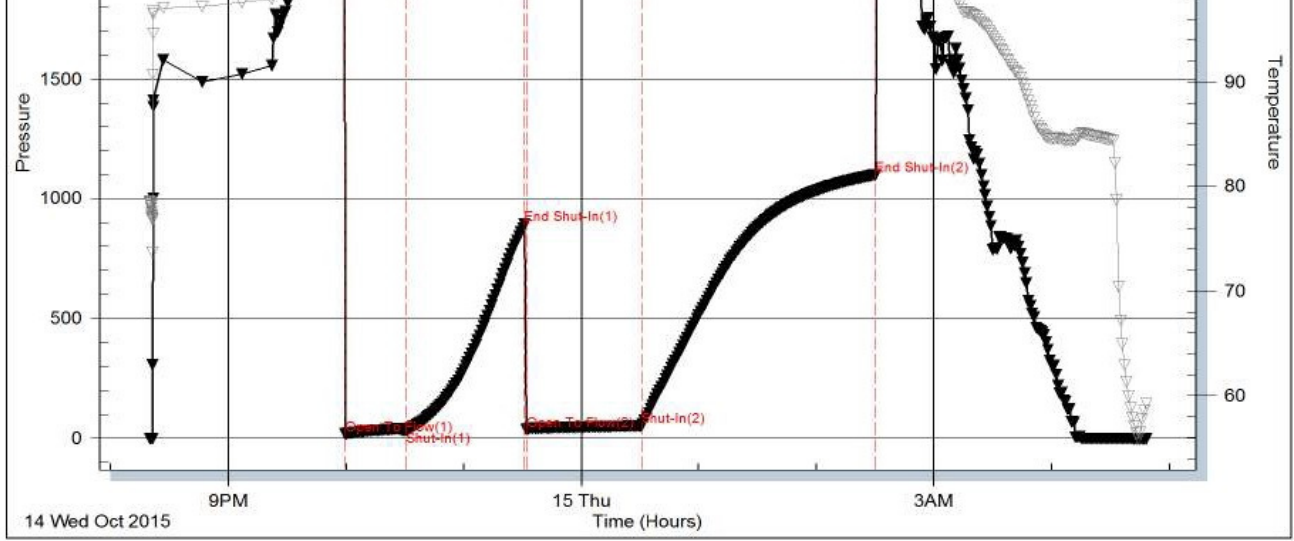
Inside

Vincent Oil Corporation

McCarty #1-27

DST Test Number: 3





Trilobite Testing, Inc

Ref. No: 57916

Printed: 2015.10.16 @ 15:24:54

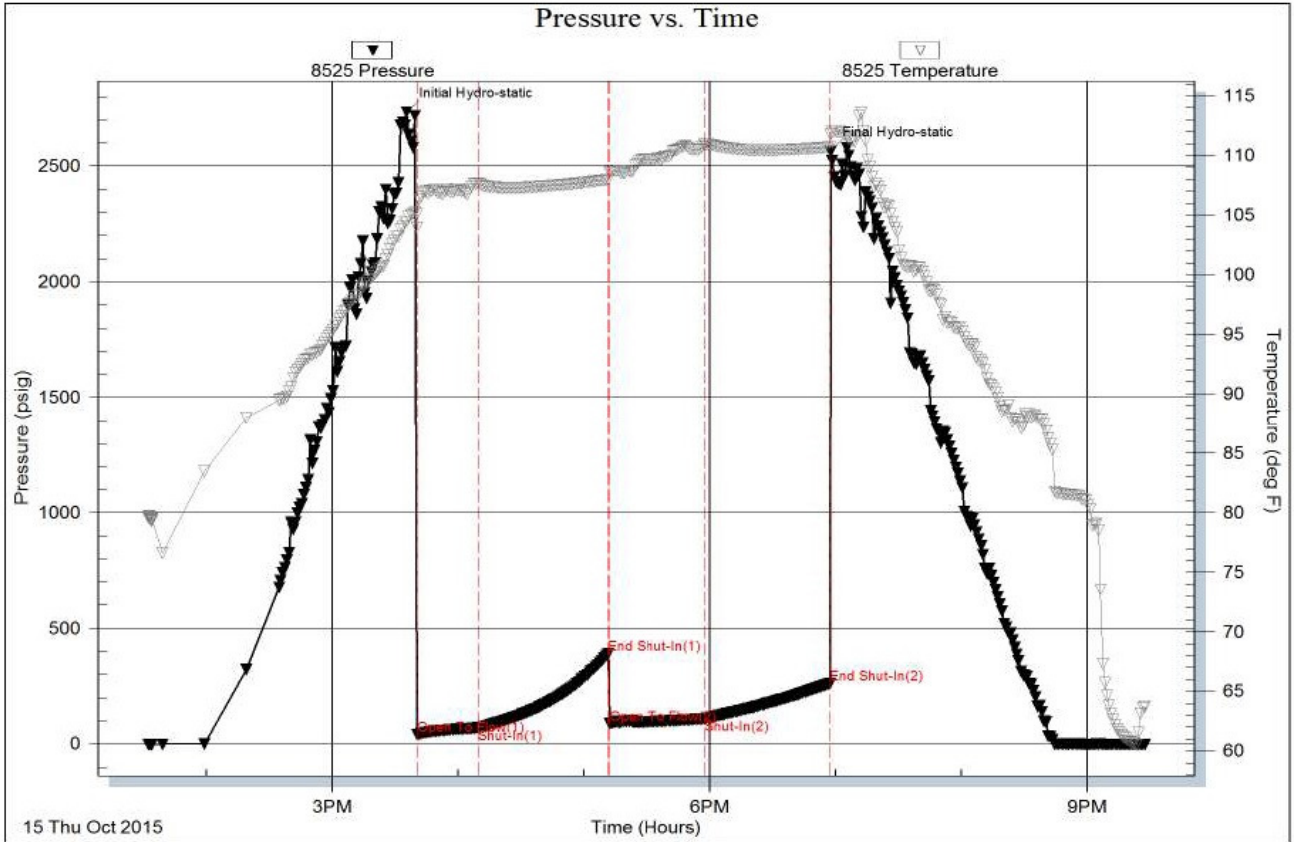
DST #4

Serial #: 8525

Inside Vincent Oil Corporation

McCarty #1-27

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 57917

Printed: 2015.10.16 @ 15:24:22

ROCK TYPES

Coal	Lmst fw<7	Shgy	Chtcongl
Congl	Lmst fw>7	Shblk	
Dolsec	Ss	Shcol	

ACCESSORIES

MINERAL

- ⊥ Calcareous
- Carbonaceous Flakes
- ▲ Chert, dark

FOSSIL

- ◇ Brachiopod
- Crinoids
- F Fossils < 20%

STRINGER

- Dolomite
- Sandstone
- Chert

TEXTURE

- C Chalky
- FX Finexln
- MX Microxln

MISC

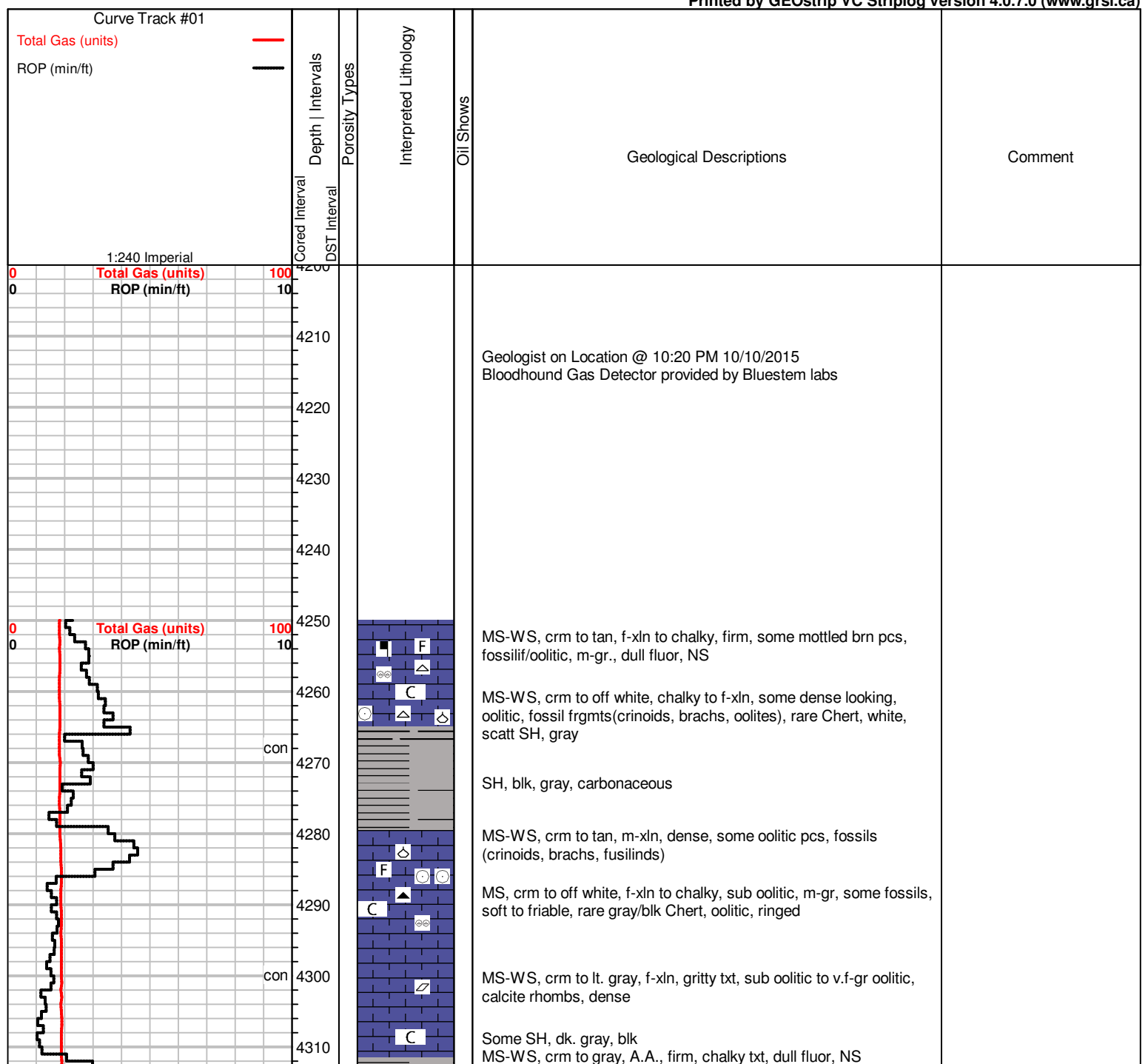
- ▨ Veins

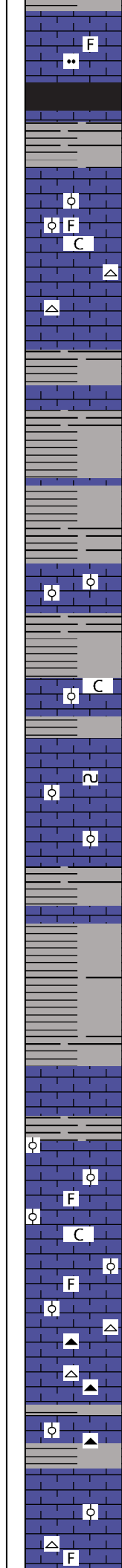
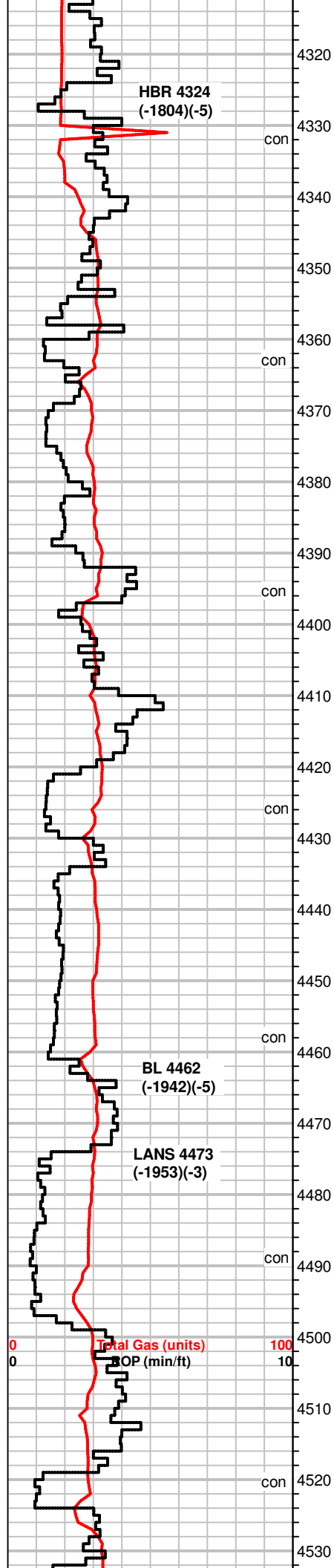
- ∠ Dolomitic
- Ferruginous, grains or p...
- ∩ Glauconite
- Heavy, dark minerals
- P Pyrite
- Sandy
- Silty
- ⊖ Chert nodules
- ∴ Varicolored chert
- ∕ Euhed rhombs of dol or
- △ Chert White
- Argillaceous/Shale
- ⊕ Gastropod
- ⊕ Oolite

OTHER SYMBOLS

- | | | |
|---|--|---|
| <p>POROSITY TYPE</p> <ul style="list-style-type: none"> × Intercrystalline ⊕ Interoolitic V Vuggy P Pinpoint ∩ Moldic O Organic F Fracture e Earthy ⊠ Fenestral | <p>OIL SHOWS</p> <ul style="list-style-type: none"> ● Even Stn ● Spotted Stn 50 - 75 % ○ Spotted Stn 25 - 50 % ○ Spotted Stn 1 - 25 % ○ Questionable Stn D Dead Oil Stn ■ Fluorescence | <p>INTERVALS</p> <ul style="list-style-type: none"> ■ Core ∴ DST |
|---|--|---|

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Scatt SH, blk, gray
MS-WS, crm to gray, f-xln, chalky in part, firm, scatt fossils, silty in part

SH, blk, brn, gray

MS, off white to crm, f-xln, chalky txt in part, soft to hard pcs throughout, sub oolitic, scatt fossils,

MS, crm to off white, f-xln, friable, scatt Chert, white

SH, gray, red, green, yellow, varicolored

SH, varicolored, gray, blk
MS, A.A.

SH, gray, red

MS-WS, crm to tan, some gray, mic to f-xln, hard, oolitic, some mottle pcs, dull fluor, NS

SH, blk, grays, green, yellow
MS, crm to brn, f-xln, some chalky, scatt fossils, calcite rhombs, dull fluor, NS

MS, off white to crm, f-xln, sub oolitic, rare fossils
SH, blk, gray

MS-WS, crm to gray, mic-xln, some pcs dark on edges, fossils, glauc, hard, dull fluor, dark ringed ooids

MS, brn to tan, some crm, dark m-gr ooids, f-xln, fossilif., NS

SH, blk, gray

WS, crm to tan, mic-xln, tite cement, m-gr oolitic, fossil frgmts, firm to hrad, some pcs w/ dark ooids
SH, gray

SH, gray, green

MS-WS, brn, fossilif., hard, mic to f-xln, NS

Scatt SH, gray, green, brn

MS-WS, crm to tan, f-xln, fossilif, sli. oolitic, dense, NS

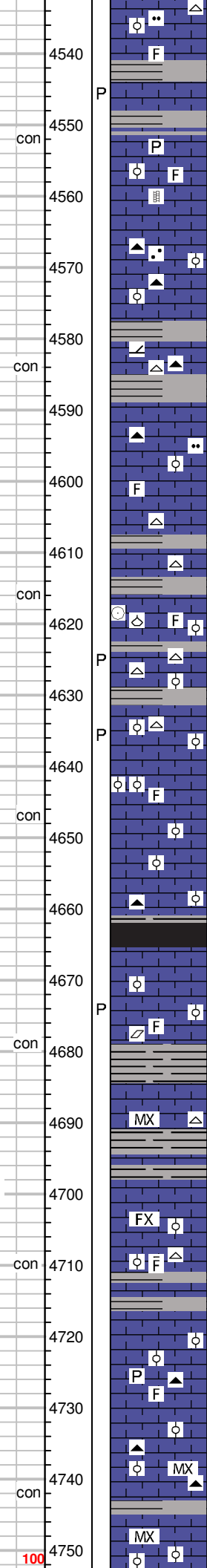
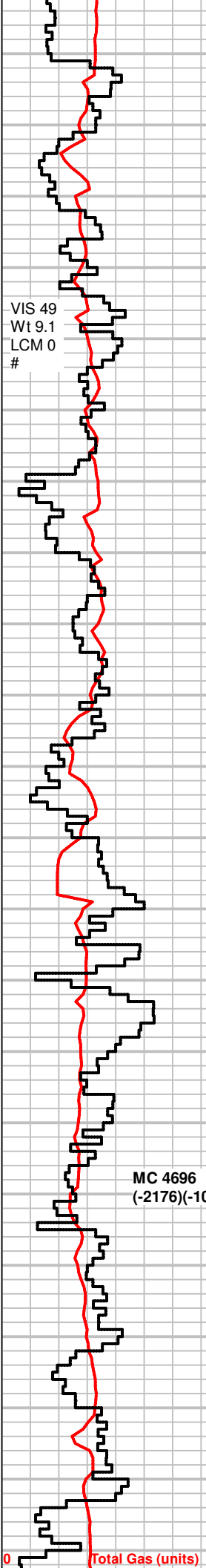
WS-MS, crm, rare brn, f-xln, chalky in part, fossilif, sub oolitic, NS

WS-MS, crm to gray, mic-xln, soft, chalky matrix, oolitic, fossilif.

MS-WS, crm to gray, f-xln, firm, sli. chalky, scatt fossils, Chert, white, gray, rare ooids
SH, gray

MS-WS, A.A.
SH, gray, rare blk, green

MS-WS, crm to lt. gray, some tan, f-xln, hard, oolitic pcs rare, m-gr., dense, mineral fluor, NS



MS, crm to gray, f-xln, sli. gritty txt. hard ,dense, scatt fossils.
Chert, white

MS, crm to lt. gray, f-xln, sli. chalky txt, firm, friable in part, sub
oolitic, scatt fossils, lt edge stn in por., PP por

MS-crm to lt. gray, A.A., calcite veins, rare brn fossilif pcs, pyrite,
no fluor, NS

MS-WS, lt. gray, to off white, mic to f-xln, dense, sub oolitic, sandy
pcs, NS
Chert, gray

MS, crm to gray, mic-xln, dense, rare fossils, rare dolomitic pcs,
bright fluor, NS
Chert, blk, gray, white
some SH, gray, green, dk. gray

MS, gray to crm, f-xln, soft to firm, silty

MS-WS, gray to crm, f-xln, firm to soft, friable, gritty to silty txt, sli.
chalky matrix, heavy minerals, fossilif, Chert, gray, white, fossilif.
scatt SH, gray

MS, crm to lt. gray, chalky, gritty txt A.A., dense, hard, Chert,
orange, white,
SH, gray, green

WS, crm to brn, mic-xln, some pcs fossilif, crinoids, brachs,
oolites, Chert, white, fossilif.
scatt SH, gray, some green

MS, crm , scatt gray, crip-mic-xln, massive looking txt, firm to hard,
heavy minerals, Chert, white, opaque, tan, scatt SH, gray

MS-WS, crm to brn, mic-xln, some pcs chalky matrix, hard to firm,
brn pcs dense, oolitic, fossilif., rare lt. edge stn in dry

MS-WS, crm to lt. brn, f-xln, some pcs gritty txt, sub oolitic, fossilif,
NS, scatt SH, gray

MS-WS, crm to tan, chalky to f-xln, firm, some pcs dense, oolitic,
Chert, gray, fossilif, NS
SH, gray,
SH, blk, carbonaceous, gray, green

MS, gray to brn, f-xln, oolitic/fossilif, friable, NS

WS-MS, crm to gray, some brn, m to f-xln, m-gr oolitic, fossilif.
hard, scatt calcite, rare lt. edge stn in dry
SH, gray, sea green

MS, crm, mic-xln, chalky matrix in pcs, soft, Chert, white, fossils
SH, rare blk, gray

MS-WS, crm, tan, some gray, f-xln, some dense/massive txt, rare
chalky pcs, 1pc w/ bright spotty fluor, no cut, NS

WS, crm to tan, off white, f-xln, hard, fossilif, sub oolitic in part,
Chert, white
SH, gray, red

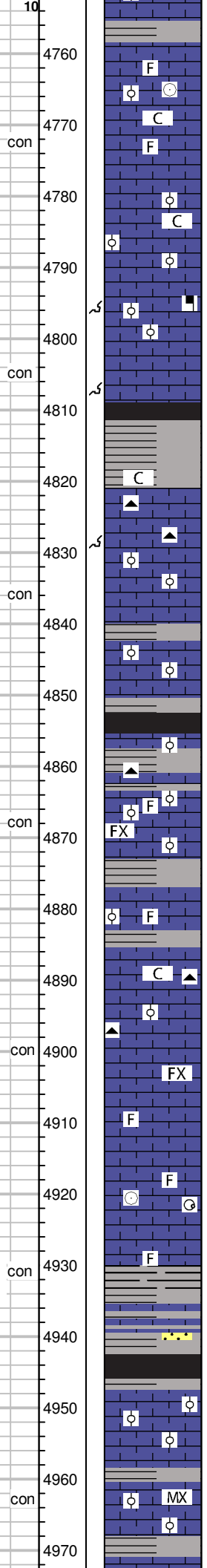
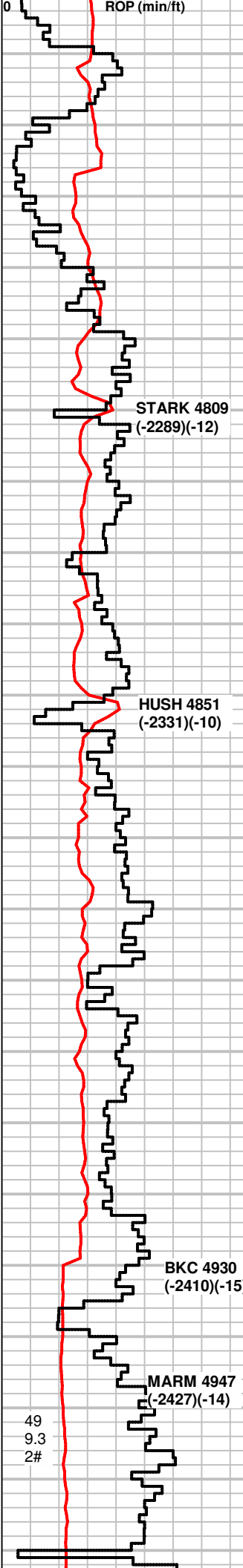
WS, A.A., chalky pcs scattered, oolitic, f to m-gr ooids, dense
SH gray, platy

WS-MS, off white, f-xln, firm, some dense pcs, chalky matrix in
part, pyrite replaced fossil frgmts, brachs Chert, blk

MS-WS, crm to tan, some off white, mic-xln, dense, some pcs
friable, lime clasts, scatt micro to f-gr oolitic pcs, Chert, opaque,
gray,
scatt SH, varicolored

MS, crm to gray, dense, WS, A.A.

MC 4696
(-2176)(-10)



SH, gray to green

WS, crm to off white, some lt. gray, chalky, friable, some f-xln, dense massive txt in part, fossilif.

WS, crm to off white, some lt. gray, chalky, some f-xln, dense/massive txt in part, friable, fossilif. Scatt SH, varicolored

MS, scatt WS, tan, crm to gray, f-xln, some chalky, m-gr oolitic pcs, dense looking, friable, dull fluor, NS

MS-WS, crm to tan, f-xln, some oolitic, m-gr ooids, gritty to silty txt, some heavy minerals, rare SH, gray, red

SH, blk, gray, red, gas bubbles

SH, gray, green
MS, crm to tan, some brn, f-xln, chalky, firm, scatt WS, A.A., Chert, brn

MS-WS, crm to brn, f-xln, some pcs oolitic, m-gr ooids, soft, scatt dense pcs, NS

MS, scatt WS, crm to brn, fossilif, A.A.
Scatt SH, gray

SH, blk, gray, flaky

MS, crm, mic-xln, some micro oolitic, hard
Chert, white, blk, blue, gray, some fossils

Scatt SH, gray, blk, carb.
MS, brn to crm, f-xln, massive txt, some shaly pcs, soft to firm, sub oolitic, fossilif., NS

MS-WS, crm to tan, f-xln, partially chalky, sub oolitic, dense, some pcs soft
Chert, white
Scatt SH, brn, gray, red

MS, crm to off white, f-xln to chalky, firm to friable, rare fossils
Chert, brn, white, fossilif., some SH, gray, green-waxy

MS, crm to brn, f-xln, some WS, fossilif, chalky matrix, friable, NS, Chert, white, brn

MS, crm, brn, gray, A.A., some dense, crinoid sections, fossilif, NS, Chert, white

MS, crm to gray, f-xln, firm to hard, scatt fossils, massive txt, Chert, brn, white
SH, gray, sea green, waxy

SH, gray, green, brn, MS, A.A., Chert, white

SH, blk, gray, brn, rare qtz-SS cluster, f-gr, well sorted, friable, NS

MS, crm to tan, f-xln to mic-xln, some chalky pcs, rare WS, m-gr oolitic, some pcs dense

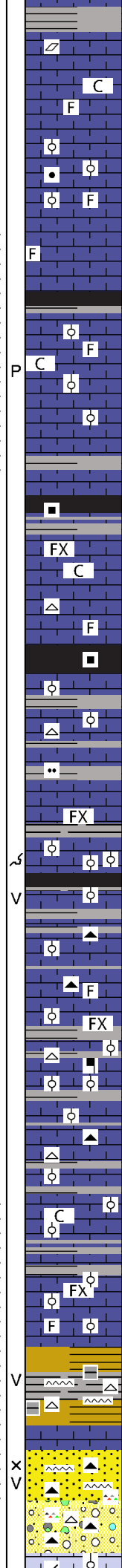
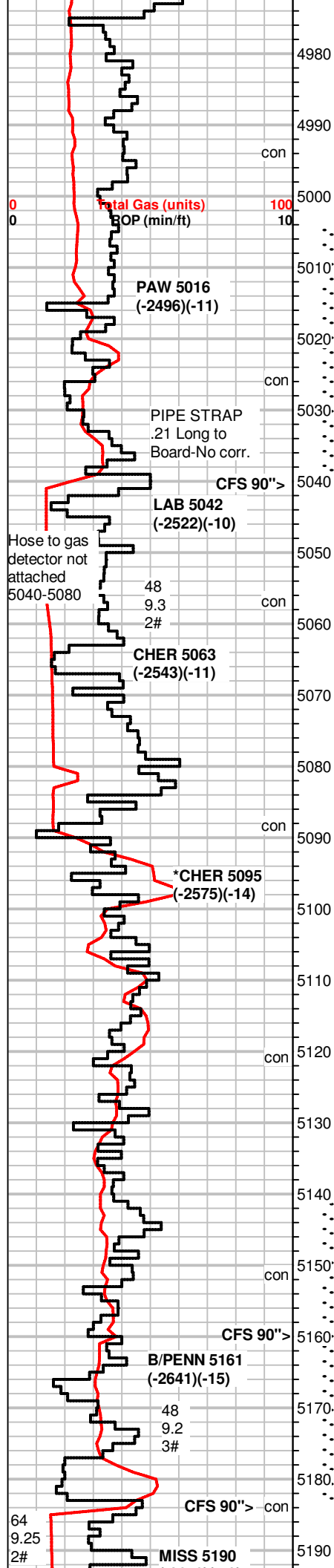
MS, crm to lt. gray, mic-xln, chalky in part, sandy, silty, sub oolitic in part, NS

SH, gray, green

+12 UGK, shale gas

+13 UGK, shale gas

DST #1 5004-5040
Pawnee
 30-60-45-90
 WB BOB 20"
 NBB
 WB BOB 44"
 NBB
 133' GIP
 Rec:182' Total Fluid
 62' SOCM (2o,98m)
 120' MCW (70w,30m)
 11.25284



MS, crm to gray, f-xln, firm to hard, most pcs dense, scatt calcite rhombs, dull fluor, NS, Chert, tan

MS-WS, crm to gray, A.A., some chalky pcs

MS, crm to tan, f-xln to chalky in part, some fossilis, barren, NS scatt SH, gray, green

MS-WS, crm to tan, f-xln, gritty txt, some minerals, dense, sub oolitic, fossilif. mineral fluor, NS

MS, crm, chalky, firm, fossilif pcs, Chert, white, tan, fossilif.

SH, rare blk, gray

WS-MS, crm, chalky, some pcs f-xln, firm to soft, some fossilis, chert, white, rare bright fluor, some pcs slow milky cut, faint odor in bag, rare lt edge stn in dry

MS-WS, A.A., inc in bright fluor, 1 pc inst. streaming cut, some pcs residual ring cut.

SH, blk, gray, carbonaceous, some gas bubbles

WS, crm to tan, f-xln, sub oolitic, some chalky, firm to soft, rare glauc specs, NS

MS-WS, crm to brn, gray, f-xln, hard, some pcs dense, Chert, white, fossilis

SH, blk, dk. gray, gas bubbles

MS, crm to off white, chalky, f-xln, sub oolitic pcs, dense Chert, white

WS, crm to brn, f-xln, sub oolitic in part, fossilif., gritty txt, some chalky pcs, scatt SH, gray, green, blk

SH, blk, gray

MS-WS, rare PS, crm to gray, f-xln, soft, rare oolitic PS, some dense, dull fluor, NS

MS-WS, crm to brn, f-xln, oolitic, firm, some pcs dense, Chert, brn. scatt SH, blk, gray

MS-WS, A.A., some gray, fossilif, dense, some minerals present, some pcs waxy

WS, crm to tan, f-xln, sub oolitic, some pcs chalky txt, heavy mineral specs, calcite rhombs, Chert, white scatt SH, gray, blk, carb.

WS-MS, brn to crm, f-xln, sub oolitic, hard, some shaly pcs, Chert, brn, white scatt SH, dk. gray, gray

WS, rare PS, brn to crm, A.A, some dense, chalky pcs scatt, rare spotty bright flour(1pc), slow milky cut, no odor scatt SH, gray

MS-WS, crm to brn, f-xln to chalky, scatt f-gr oolitic PS, firm, rare bright fluor(2pcs), 1 pcs slow milky cut.

WS, crm to brn, A.A., rare brn f-gr oolitic to sub oolitic pcs, rare bright flour in tray, instant cut(2 pcs), few pcs w/ slow milky cut, no odor, no gas inc., wormy dead stn, spotty stn in dry

SH, blk, sea green, gray, yellow, maroon, Chert, varicolored, some fossilif. stn in vugs,

MS, some WS, crm to brn, mic-xln, dense, oolitic in part, carrying shows A.A.

Chert, varicolored, some weathered, partial stain, rare oil in vugs, SS clusters, f-gn, well sorted, some tite pcs, friable, dark stn on pcs, milky cut, faint odor in bag, 60"-Chert, varicolored A.A., SS clusters, bleeding gas, free oil in tray, instant cut, odor when broken

SH & Chert. varicolored. MS. crm. chalky to f-xln. suboolitic.

IH 2528#
 IF 30-70#
 ISIP 740#
 FF 76-99#
 FSIP 733#
 FH 2417#
 Temp 115°F
 Rw .15 @ 60°F
 CI 58,000ppm

+3 UGK, shale gas

+16 UGK, w/ +9 UGK recycle

DST #2 5140-5184
 B/Penn-Morrow
 30-60-60-120
 SB, BOB 4min
 NBB
 SB, BOB immed GTS
 18min TSTM
 NBB
 5125' GIP
 Rec: 10' GCM (10g,90m)
 IH 2614#
 IF 32-41#
 ISIP 1273#
 FF 24-22#
 FSIP 1300#
 FH 2432#
 Temp 120°F

+20 UGK, w/ 11 UGK recycle

(-2670)(-19)

CFS 90"> 5200

5210

CFS 90"> 5220

con 5230

CFS 90"> 5240

5240

con 5250

CFS 90"> 5260

5270

con 5280

5290

5300

con 5310

5320

5330

con 5340

5350

CFS 90"> 5360

5370

5380

5390

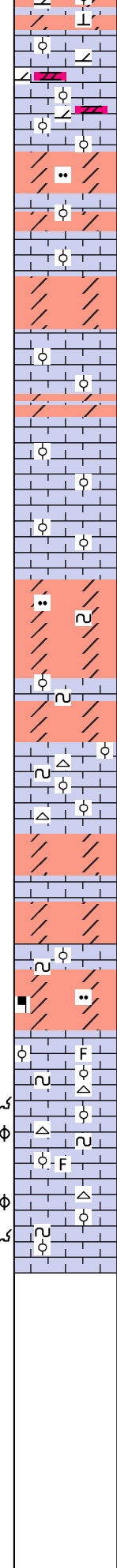
trip gas
trip gas recycle
Total Gas (units)
ROP (min/ft)

60
9.2
2#

Gas Detector
quit lagging @
5279-
Trip gas was
recycling
through
system

Trip gas
decreasing to
20 units
background
@ RTD

RTD 5360
@ 4:58 AM
10/16/2015
LTD 5362



fossilif. NS
MS-WS, rare PS, crm to brn, mic to f-xln, m-gr oolitic to suboolitic, some pcs dolomitic, Scatt Dolo, crm to lt. gray, vf-sucrosic, gritty txt, some pcs limey, mineral fluor, NS

Scatt dolomitic lime, greenish crm, f-suc, firm, dul fluor, NS
WS, crm to brn, f-xln, firm to dense, some off white chalky pcs, most sub oolitic, dull fluor, NS

Dolo, brn to crm, f-suc, firm, **bright fluor, good odor, some pcs partial stain in wet, free oil droplets in tray and on break, inst. cut 1/2 of select pcs, spty to even stn dry**

WS, brn to crm, f-xln, dense, sub oolitic

Dolo, crm to brn, vf-suc, friable, **good odor, bright fluor, spotty stn on some pcs, instant to milky cut on select pcs**

WS-PS, crm to of white, f-xln, m-gr oolitic, firm to hard, some dense, dull fluor, NS

Rare Dolo, Brn, to crm, vf- suc, gritty txt, hard, dull fluor, no odor, no cut, NS

PS, off white, f-xln, m-gr oolitic, soft to firm, some pcs sli. dolomitic, dull fluor, NS scatt dolo, A.A,

WS-PS, crm to off white, f-xln, sub oolitic to m-gr oolitic, firm to hard, NS

Dolo, brn to crm, vf-xln, f-suc sugary txt, firm, dull fluor, no cut, NS

WS, off white to crm, chalky to f-xln, soft, scatt dense pcs, sub oolitic pcs, glauc specs, Chert, white

Dolo, gray to brn, vf-suc, m-gr sugary txt, firm, dull mineral fluor, NS

WS, off white to crm, f-xln, firm to hard, some chalky pcs, sub oolitic, NS
Chert, white, crm, gray

Dolo, brn to gray, some crm, f-xln, vf suc txt, hard to firm, dull fluor, NS

WS-PS, off white, f-xln sub oolitic, glauc, Assoc Chert, white

Dolo, brn to crm, A.A., some mineral spec inclusions, dull fluor, NS

WS-PS, crm to off white, f-xln, friable, m-gr oolitic pcs, glauc specs, A.A., dull fluor, NS

PS-WS, off white to crm, f-xln, m-gr oolitic, to sub oolitic in part, some pcs chalky, glauc specs, Chert, white, fossilif. scatt Dolo, crm to brn, vf-xln, f-suc, firm to hard, NS

WS-PS, off white, f-xln, m-gr oolitic, glauc, scatt chalky pcs A.A.

+45 UGK, +24 UGK recycle

DST #3 5198-5232
MISS
30-60-60-120
WB 1/2inch
NBB
SB BOB 5min
NBB
1195' GIP
Rec: 65' OCM (10o,90m)
IH 2621#
IF 18-33#
ISIP 893#
FF 36-52#
FSIP 1099#
FH 2470#
Temp 116°F

DST #4 5197-5260
MISS
30-60-45-60
WB
NBB
WB
NBB
Rec: 120' Mud
IH 2731#
IF 41-70#
ISIP 391#
FF 88-109#
FSIP 262#
FH 2564#
Temp 112°F