

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1267686
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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: _____

1267686

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) (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	Frink-Brown #1-28
Doc ID	1267686

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Frink-Brown #1-28
Doc ID	1267686

Tops

Name	Top	Datum
Heebner Shale	4265	(-1789)
Brown Limestone	4400	(-1924)
Lansing	4410	(-1934)
Stark Shale	4749	(-2273)
Pawnee	4967	(-2491)
Cherokee Shale	5012	(-2536)
Base Penn Limestone	5111	(-2635)
Mississippian	5140	(-2664)
LTD	5298	(-2822)
RTD	5300	(-2824)

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6353

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
06/19/15	28	28S	23W	Ford	KS	4:30 AM	7:00 AM
Lease	Well No.		Location				
Frank Brown	1-28		Kingsdown KS 2N, 5W, 1N, 1/2E 4N/into				
Contractor				Owner			
Duke #9				Vincent			
Type Job				To: Quality Well Service, Inc.			
Surface				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size		T.D.		Charge To			
12 1/4		670		Vincent			
Csg.		Depth		Street			
8 5/8		669		City			
Tbg. Size		Depth		State			
Tool		Depth		City			
Cement Left in Csg.		Shoe Joint		State			
20'		NA		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace		Cement Amount Ordered			
		41 Bbls Fresh		1255x MDC + 1/4" Flo Seal & 1205x class A + 2% gel + 3% w + 1/4" Flo Seal			
EQUIPMENT							
Pumptrk	No.			Common			
8		David F		150			
Bulktrk	No.			Poz. Mix			
9		David B		MDC 125			
Bulktrk	No.			Gel.			
10		Derek B		11			
Pickup	No.			Calcium			
		Mike B		10			
JOB SERVICES & REMARKS							
Rat Hole				Hulls			
Mouse Hole				Salt			
Centralizers				Flowseal 66.25-			
Baskets				K&K Seal			
D/V or Port Collar				Mud CLR 48			
Pipe on Bttm, Break Circ, Pump Spacer				CFL-117 or CD110 CAF 38			
Mix 125 5x Lite weight cement, Mix				Sand			
120 5x tail cement, Stop Release Plug				Handling 296			
Start Displacement w/ Fresh H ² O, Wash				Mileage 50			
up on Plug, See Steady increase in P.S.T				FLOAT EQUIPMENT			
Slow Rate, stop Pump at 41 Bbls total				Guide Shoe			
Disp., Shu + in, Cement Did Circ				Bid for 620' drilled 670			
				Centralizer			
				Ran extra 255x common.			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down LMV 50			
				1 - Wooden Cup Plug 8 5/8			
				Service Supervisor			
				Pumptrk Charge Surface			
				Mileage 50 X 2			
				Tax			
				Discount			
				Total Charge			
Signature							
Eugene Vojta							

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067289

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

SERVICE POINT:
Liberal, KS

DATE <u>6-30-15</u>	SEC. <u>28</u>	TWP. <u>28 S</u>	RANGE <u>23 W</u>	CALLED OUT	ON LOCATION <u>11:20 am</u>	JOB START <u>1:18 pm</u>	JOB FINISH <u>2:40 pm</u>
FROM <u>W. Brown</u> LEASE	WELL# <u>1-28</u>	LOCATION <u>Kingsdown, KS</u>	COUNTY <u>Parish</u>	STATE <u>KS</u>			

CONTRACTOR Duke 9
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5310
CASING SIZE 4 1/2 11.6# DEPTH 5306.47
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 2500 PSI MINIMUM
MEAS. LINE SHOE JOINT 42.16
CEMENT LEFT IN CSG. 42.10 ft
PERFS.
DISPLACEMENT 82 bbls

EQUIPMENT
PUMP TRUCK CEMENTER Edgar Rodriguez
531-541 HELPER Alex Ayala
BULK TRUCK
956-841 DRIVER Jose Andres Zubia
BULK TRUCK
DRIVER

REMARKS:

OWNER Vincent O'J
CEMENT
AMOUNT ORDERED 50 sks Col/40 Per Class A
175 sks ASBC Class A
COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC @
Hivis Sump 12 bbls @ 25.00 300.00
ASBC - Class A 175 sks @ 23.50 4112.50
CPL-216 83# @ 18.90 1568.70
Rot Seal 875# @ 0.98 857.50
Col/40 Per Class A 50 sks @ 18.92 946.00
KLL Liquid 2 gal @ 26.90 242.10
@
@
TOTAL 8026.80

DISCOUNT 50% 4013.40

SERVICE

HANDLING 284.00 273 @ 2.48 704.32
MILEAGE 484.00 100 @ 2.75 1331.00
DEPTH OF JOB
PUMP TRUCK CHARGE 1 @ 2765.75 2765.75
Head & Man Hold
EXTRA FOOTAGE 1 @ 275.00 275.00
HV MILEAGE 40 mile @ 7.70 308.00
LV MILEAGE 40 mile @ 4.40 176.00
@
@

TOTAL 5560.07

DISCOUNT 50% 2780.04

PLUG & FLOAT EQUIPMENT

Grade Shop 1 @ 225.00 225.00
APU Insert Float Valve 1 @ 291.00 291.00
Centralizer 6 @ 57.00 342.00
Top Rubber Plug 1 @ 83.00 83.00
@
TOTAL 941.00

DISCOUNT 50% 470.50

SALES TAX (If Any)
TOTAL CHARGES 14,527.87
DISCOUNT 7263.94 / 50% IF PAID IN 30 DAYS
NET TOTAL 7263.93 IF PAID IN 30 DAYS

CHARGE TO: Vincent O'J
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 Pat Livingston
SIGNATURE Pat Livingston



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

28-28s-23w Ford, Co. Ks.

Frink-Brown 1-28

Job Ticket: 59802

DST#: 1

Test Start: 2015.06.25 @ 09:22:59

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 12:21:59

Time Test Ended: 20:11:44

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 53

Interval: 4953.00 ft (KB) To 4989.00 ft (KB) (TVD)

Reference Elevations: 2476.00 ft (KB)

Total Depth: 4989.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8931

Inside

Press@RunDepth: 89.74 psig @ 4954.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.25

End Date:

2015.06.25

Last Calib.:

2015.06.25

Start Time: 09:23:04

End Time:

20:11:44

Time On Btm:

2015.06.25 @ 12:19:59

Time Off Btm:

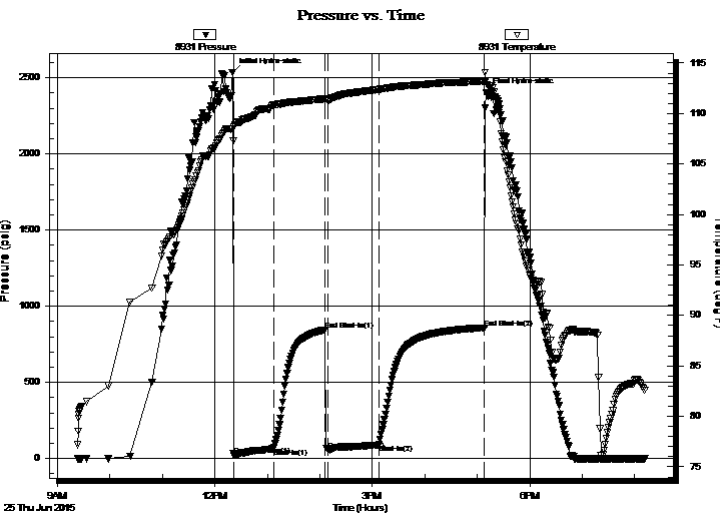
2015.06.25 @ 17:09:59

TEST COMMENT: IF: Fair - Strong blow . B.O.B. in 29 mins.

IS: No blow .

FF: Fair - Strong blow . B.O.B. in 4 1/2 mins.

FS: Weak blow . Surf., - 1/2". Blow back in 35 mins. Dead in 1 hr 15 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2536.17	108.51	Initial Hydro-static
2	21.26	108.68	Open To Flow (1)
48	64.99	110.86	Shut-In(1)
106	844.99	111.44	End Shut-In(1)
110	56.28	111.30	Open To Flow (2)
168	89.74	112.38	Shut-In(2)
289	858.84	113.20	End Shut-In(2)
290	2402.93	113.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MWOCG 3% _m 17% _w 25% _o 55% _g	0.30
60.00	MWOCG 3% _m 7% _w 27% _o 63% _g	0.30
60.00	MWOCG 5% _m 6% _w 15% _o 74% _g	0.31
20.00	GOCM 10% _g 10% _o 80% _m	0.28
0.00	1,728' G.I.P. 100% _g	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59802

DST#: 1

ATTN: Jim Hall

Test Start: 2015.06.25 @ 09:22:59

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:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8900.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MWOCG 3%m 17%w 25%o 55%g	0.295
60.00	MWOCG 3%m 7%w 27%o 63%g	0.295
60.00	MWOCG 5%m 6%w 15%o 74%g	0.313
20.00	GOCM 10%g 10%o 80%m	0.281
0.00	1,728' G.I.P. 100%g	0.000

Total Length: 200.00 ft

Total Volume: 1.184 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8931

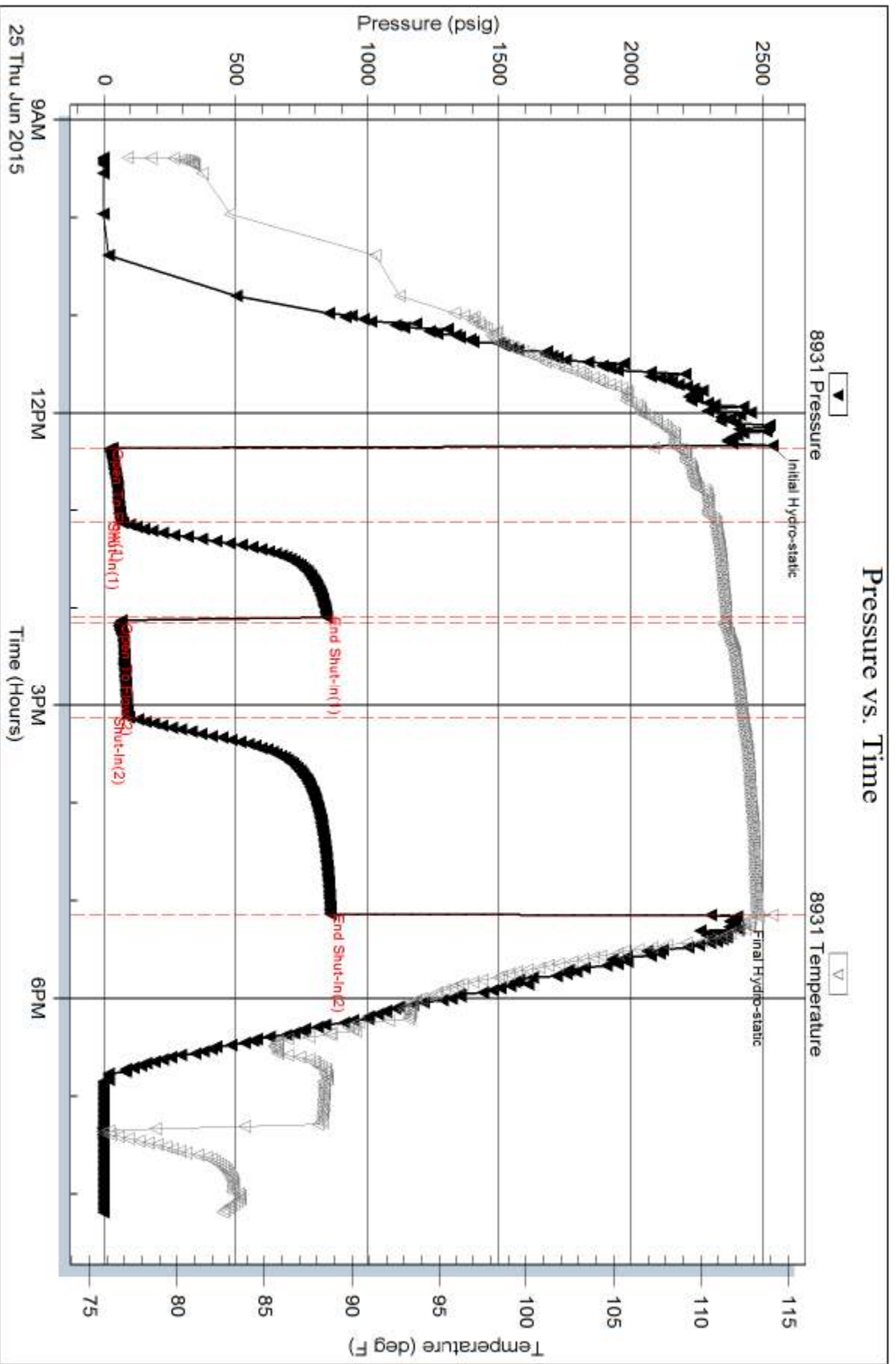
Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59802

Printed: 2015.06.25 @ 21:22:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59803

DST#: 2

ATTN: Jim Hall

Test Start: 2015.06.26 @ 12:01:52

GENERAL INFORMATION:

Formation: **Base Penn**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 14:55:37

Time Test Ended: 22:17:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 5034.00 ft (KB) To 5118.00 ft (KB) (TVD)

Reference Elevations: 2476.00 ft (KB)

Total Depth: 5118.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8931

Inside

Press @ Run Depth: 134.56 psig @ 5035.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.26

End Date:

2015.06.26

Last Calib.:

2015.06.26

Start Time: 12:01:57

End Time:

22:17:52

Time On Btm:

2015.06.26 @ 14:52:37

Time Off Btm:

2015.06.26 @ 19:15:07

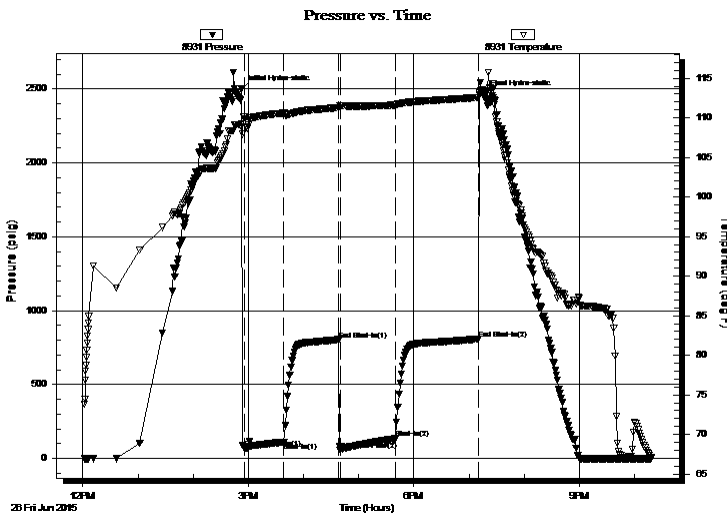
TEST COMMENT: IF: Fair - Strong blow . B.O.B. in 1 1/2 mins. G.T.S. in 42 mins.

IS: No blow .

FF: Strong blow . B.O.B. & G.T.S., immediately. Gauged gas, see gas report.

FS: No blow . Bled off in 25 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2498.75	109.26	Initial Hydro-static
3	65.70	110.11	Open To Flow (1)
46	110.78	110.60	Shut-In(1)
106	803.77	111.30	End Shut-In(1)
107	56.02	111.54	Open To Flow (2)
168	134.56	111.62	Shut-In(2)
258	807.99	112.60	End Shut-In(2)
263	2463.31	113.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil Spec GM 3%g 97%m	0.30
20.00	Oil Spec GM 3%g 97%m	0.10
0.00	G.I.P. G.T.S. 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	10.00	9.13
Last Gas Rate	0.13	54.00	25.60
Max. Gas Rate	0.13	54.00	25.60



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

28-28s-23w Ford, Co. Ks.
Frink-Brown 1-28
Job Ticket: 59803 **DST#: 2**
Test Start: 2015.06.26 @ 12:01:52

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:	8000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Oil Spec GM 3%g 97%m	0.295
20.00	Oil Spec GM 3%g 97%m	0.098
0.00	G.I.P. G.T.S. 100%g	0.000

Total Length: 80.00 ft Total Volume: 0.393 bbl

Num Fluid Samples: 2 Num Gas Bombs: 0 Serial #: MAS Pratt

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments: Took a gas sample from both opens.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59803

DST#: 2

ATTN: Jim Hall

Test Start: 2015.06.26 @ 12:01:52

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)
2	10	0.13	10.00	9.13
2	20	0.13	21.00	13.25
2	30	0.13	30.00	16.62
2	40	0.13	39.00	19.99
2	50	0.13	45.00	22.23
2	60	0.13	54.00	25.60

Serial #: 8931

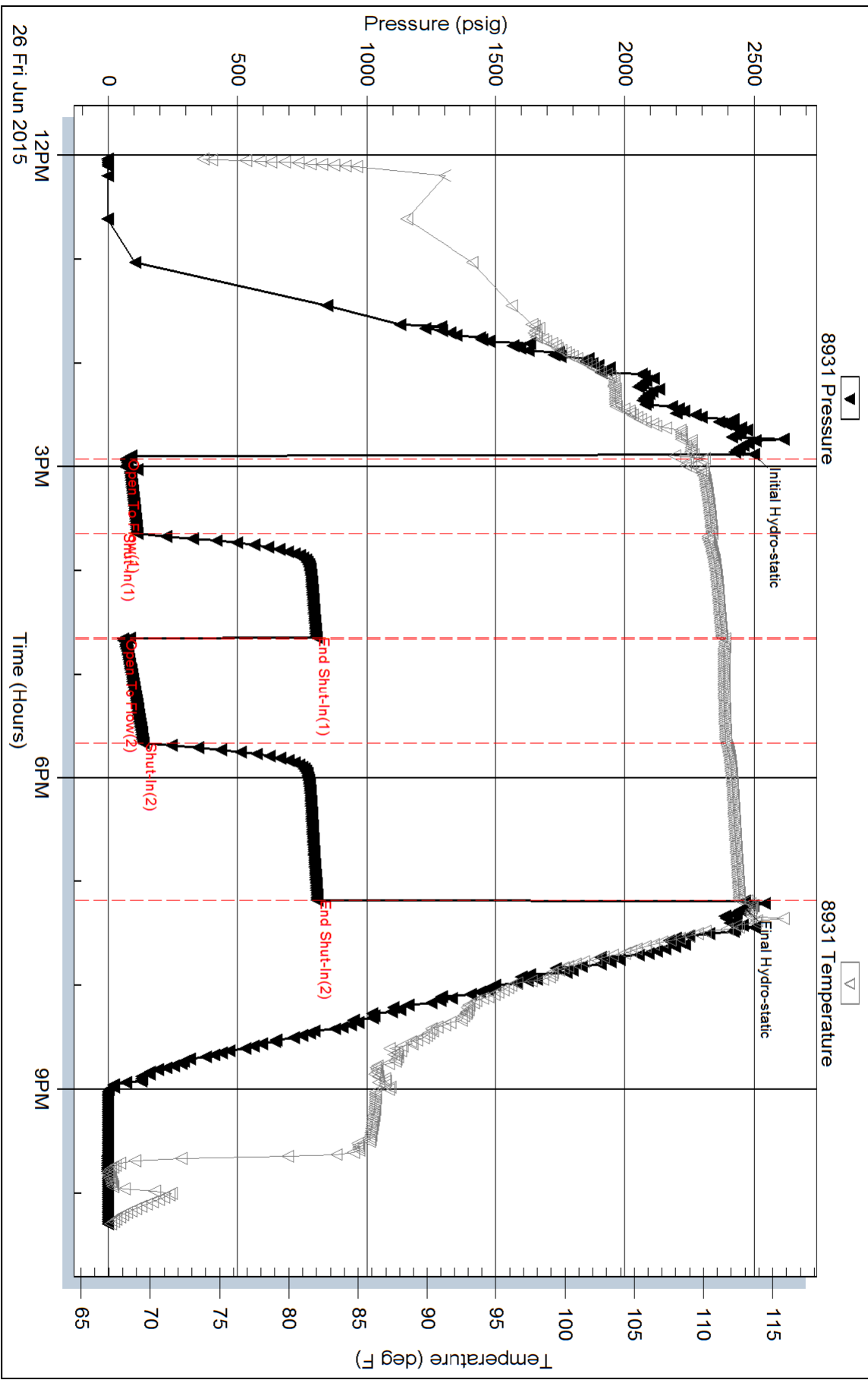
Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59803

Printed: 2015.06.26 @ 22:55:00



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

28-28s-23w Ford, Co. Ks.

Frink-Brown 1-28

Job Ticket: 59804

DST#: 3

Test Start: 2015.06.27 @ 06:48:47

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 09:24:17

Time Test Ended: 18:15:17

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 5113.00 ft (KB) To 5146.00 ft (KB) (TVD)

Reference Elevations: 2476.00 ft (KB)

Total Depth: 5146.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8931

Inside

Press @ Run Depth: 91.48 psig @ 5114.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.27

End Date: 2015.06.27

Last Calib.: 2015.06.27

Start Time: 06:48:52

End Time: 18:15:17

Time On Btm: 2015.06.27 @ 09:19:32

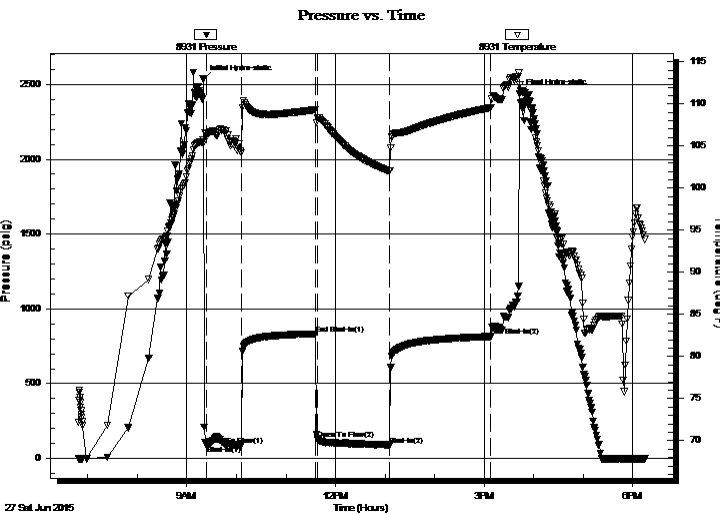
Time Off Btm: 2015.06.27 @ 15:43:17

TEST COMMENT: IF: Strong blow . B.O.B. in 30 secs. G.T.S. in 15 mins. Gauged gas, see gas report.

IS: No blow . Bled off in 20 mins.

FF: Strong blow . B.O.B. & G.T.S. immediately. Gauged gas, see gas report.

FS: No blow . Bled off in 20 mins.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2535.09	105.79	Initial Hydro-static
5	88.15	106.42	Open To Flow (1)
47	88.13	104.17	Shut-In(1)
137	832.48	109.32	End Shut-In(1)
139	130.19	108.37	Open To Flow (2)
227	91.48	102.02	Shut-In(2)
349	815.81	109.56	End Shut-In(2)
384	2438.22	112.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GM 2%g 98%m	0.30
5.00	Drig Mud 100%m	0.02
0.00	G.T.S. G.I.P. 100%g	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	28.00	662.28
Last Gas Rate	0.75	11.00	396.74
Max. Gas Rate	0.75	28.00	662.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

28-28s-23w Ford, Co. Ks.
Frink-Brown 1-28
Job Ticket: 59804 **DST#: 3**
Test Start: 2015.06.27 @ 06:48:47

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:	8000 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.19 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: 0.20 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GM 2%g 98%m	0.295
5.00	Drig Mud 100%m	0.025
0.00	G.T.S. G.I.P. 100%g	0.000

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #: MAS Pratt
 Laboratory Name: Caraway Laboratory Location: Liberal, KS
 Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59804

DST#: 3

ATTN: Jim Hall

Test Start: 2015.06.27 @ 06:48:47

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.75	28.00	662.28
1	30	0.75	13.00	427.98
1	40	0.75	11.00	396.74
1	45	0.75	10.00	381.12
2	10	0.75	14.00	443.60
2	20	0.75	13.00	427.98
2	30	0.75	12.00	412.36
2	40	0.75	12.00	412.36
2	50	0.75	11.00	396.74
2	60	0.75	11.00	396.74
2	70	0.75	11.00	396.74
2	80	0.75	11.00	396.74
2	90	0.75	11.00	396.74

Serial #: 8931

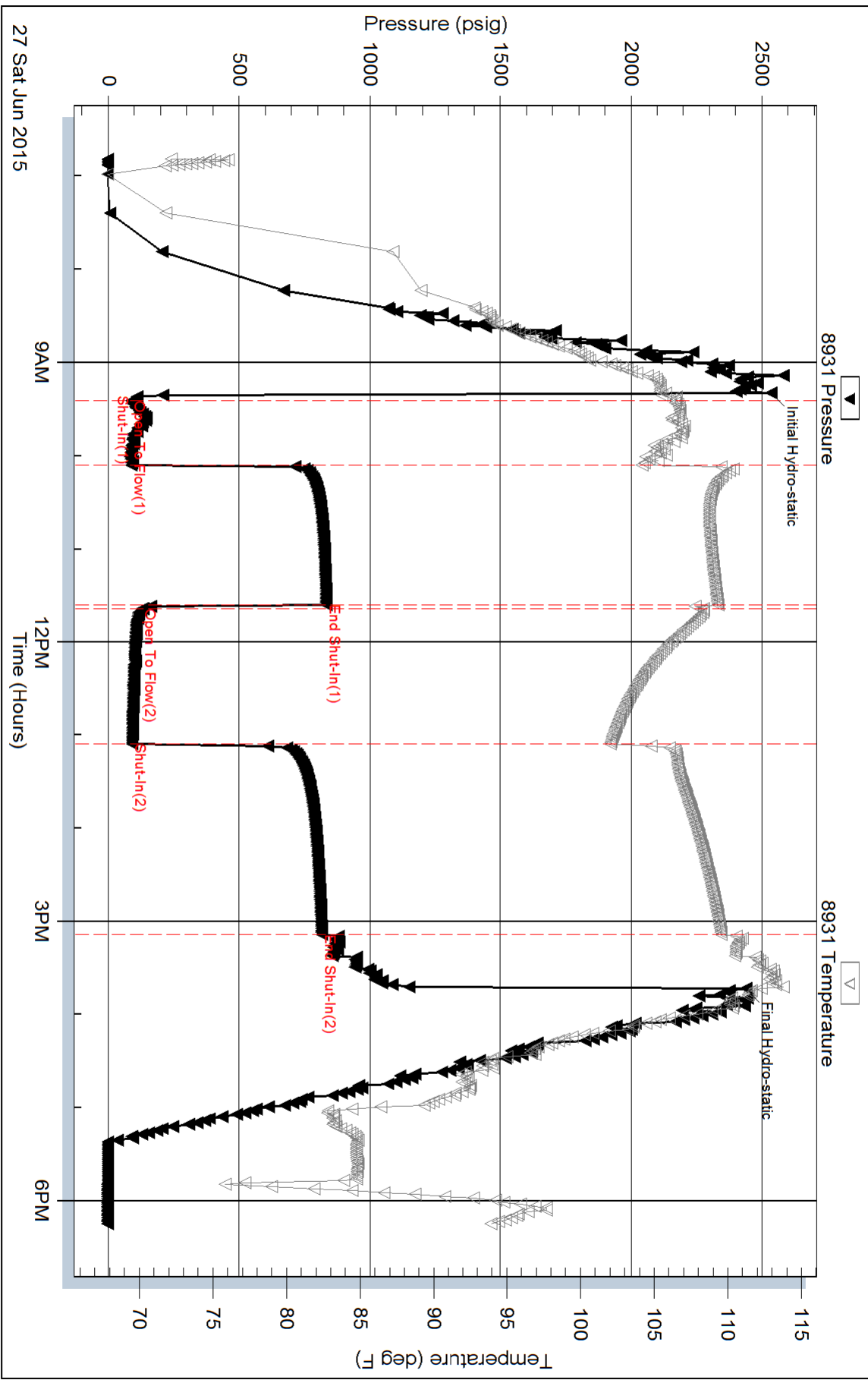
Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 3

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

28-28s-23w Ford, Co. Ks.

Frink-Brown 1-28

Job Ticket: 59805 **DST#: 4**

Test Start: 2015.06.28 @ 02:28:03

GENERAL INFORMATION:

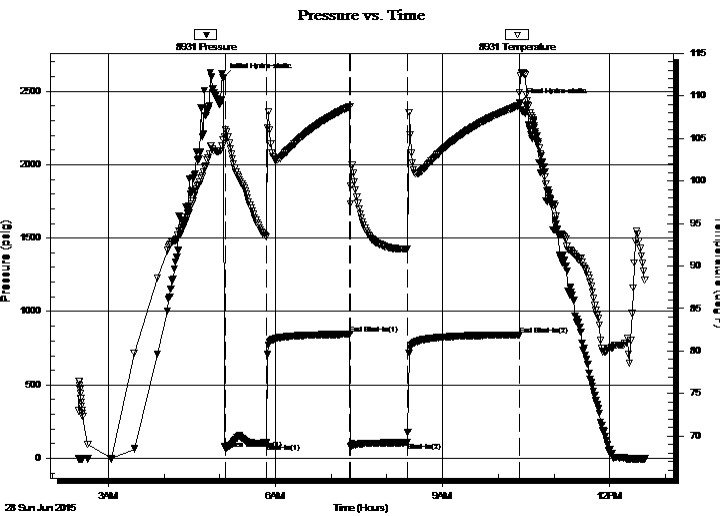
Formation: **Mississippi**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 05:06:03
 Time Test Ended: 12:38:33
 Interval: **5150.00 ft (KB) To 5165.00 ft (KB) (TVD)**
 Total Depth: 5165.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 53
 Reference Elevations: 2476.00 ft (KB)
 2463.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 8931

Inside

Press @ Run Depth: 108.80 psig @ 5151.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.06.28 End Date: 2015.06.28 Last Calib.: 2015.06.28
 Start Time: 02:28:08 End Time: 12:38:33 Time On Btm: 2015.06.28 @ 05:03:48
 Time Off Btm: 2015.06.28 @ 10:22:33

TEST COMMENT: IF: Strong blow . B.O.B. in 20 secs., G.T.S. in 16 mins. Gauged gas, see gas report.
 IS: No blow .
 FF: Strong blow . B.O.B. & G.T.S., immediately. Gauged gas, see gas report.
 FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2590.00	104.83	Initial Hydro-static
3	65.19	106.05	Open To Flow (1)
47	105.65	93.38	Shut-In(1)
137	844.67	108.74	End Shut-In(1)
138	79.30	97.30	Open To Flow (2)
199	108.80	92.02	Shut-In(2)
319	841.20	108.85	End Shut-In(2)
319	2418.88	110.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWCM 5%g 15%w 80%m	0.30
10.00	GM 2%g 98%m	0.05
0.00	RW .24 @ 97 = 20000 Chlorides	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	35.00	771.62
Last Gas Rate	0.75	22.00	568.56
Max. Gas Rate	0.75	35.00	771.62



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59805

DST#: 4

ATTN: Jim Hall

Test Start: 2015.06.28 @ 02:28:03

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:

80000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GWCM 5%g 15%w 80%m	0.295
10.00	GM 2%g 98%m	0.049
0.00	RW .24 @ 97 = 20000 Chlorides	0.000

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 1

Num Gas Bombs: 3

Serial #: MAS PRATT

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: RW is .24 @ 97 degrees = Chlorides 20,000.



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59805

DST#: 4

ATTN: Jim Hall

Test Start: 2015.06.28 @ 02:28:03

Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	20	0.75	35.00	771.62
1	20	0.75	35.00	771.62
1	30	0.75	18.00	506.08
1	40	0.75	17.00	490.46
1	45	0.75	17.00	490.46
2	10	0.75	18.00	506.08
2	20	0.75	20.00	537.32
2	30	0.75	21.00	552.94
2	40	0.75	21.50	560.75
2	50	0.75	22.00	568.56

Serial #: 8931

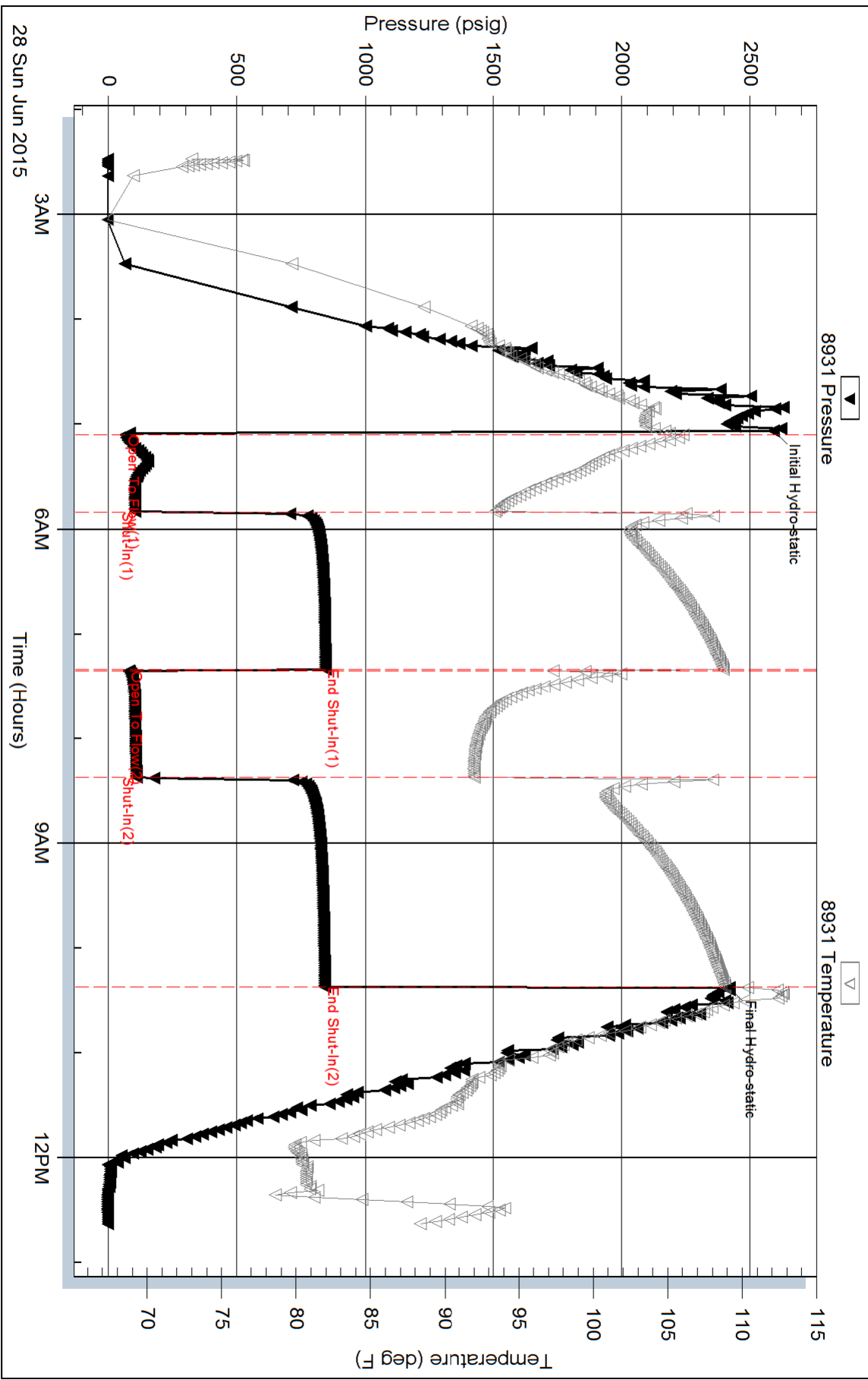
Inside

Vincent Oil Corporation

Fink-Brown 1-28

DST Test Number: 4

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

28-28s-23w Ford, Co. Ks.

Frink-Brown 1-28

Job Ticket: 59806

DST#: 5

Test Start: 2015.06.29 @ 00:04:18

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:16:48

Time Test Ended: 09:44:18

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 53

Interval: 5172.00 ft (KB) To 5200.00 ft (KB) (TVD)

Reference Elevations: 2476.00 ft (KB)

Total Depth: 5200.00 ft (KB) (TVD)

2463.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

Serial #: 8931 Inside

Press@RunDepth: 47.52 psig @ 5173.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.06.29 End Date: 2015.06.29

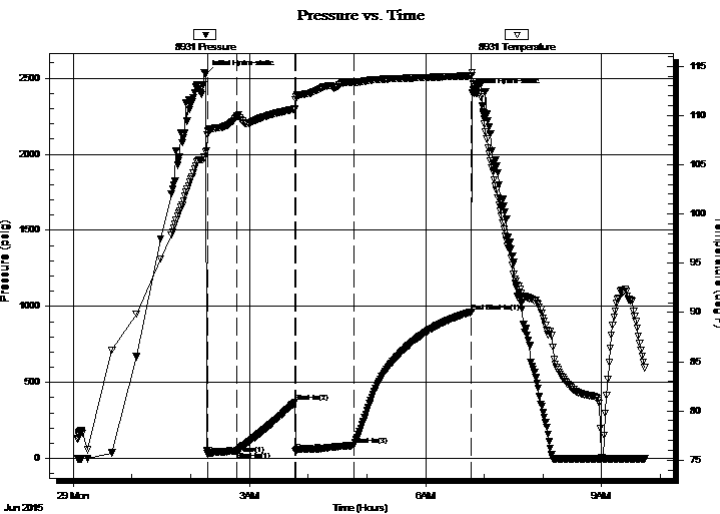
Last Calib.: 2015.06.29

Start Time: 00:04:23 End Time: 09:44:18

Time On Btm: 2015.06.29 @ 02:15:03

Time Off Btm: 2015.06.29 @ 06:47:33

TEST COMMENT: IF: Weak - Strong blow . B.O.B. in 22 mins.
IS: No blow .
FF: Weak - Strong blow . B.O.B. in 12 mins.
FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2524.68	106.28	Initial Hydro-static
2	29.78	108.03	Open To Flow (1)
32	47.52	109.86	Shut-In(1)
92	368.31	110.66	Shut-In(2)
92	48.32	111.59	Open To Flow (2)
152	88.42	113.36	Shut-In(3)
272	963.34	114.04	End Shut-In(1)
273	2404.01	114.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OWCGM 7%o 12%w 17%g 64%m	0.30
60.00	WOCGM 1%w 7%o 14%g 80%m	0.30
10.00	Mud w / oil scum 100%m	0.05
0.00	448' G.I.P. 100%g	0.00

* 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

28-28s-23w Ford, Co. Ks.

155 N Market STE 700
Wichita, Ks. 67202

Frink-Brown 1-28

Job Ticket: 59806

DST#: 5

ATTN: Jim Hall

Test Start: 2015.06.29 @ 00:04:18

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:

36000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OWCGM 7%o 12%w 17%g 64%m	0.295
60.00	WOCGM 1%w 7%o 14%g 80%m	0.295
10.00	Mud w / oil scum 100%m	0.049
0.00	448' G.I.P. 100%g	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .18 @ 79 degrees = 36,000 Chlorides.

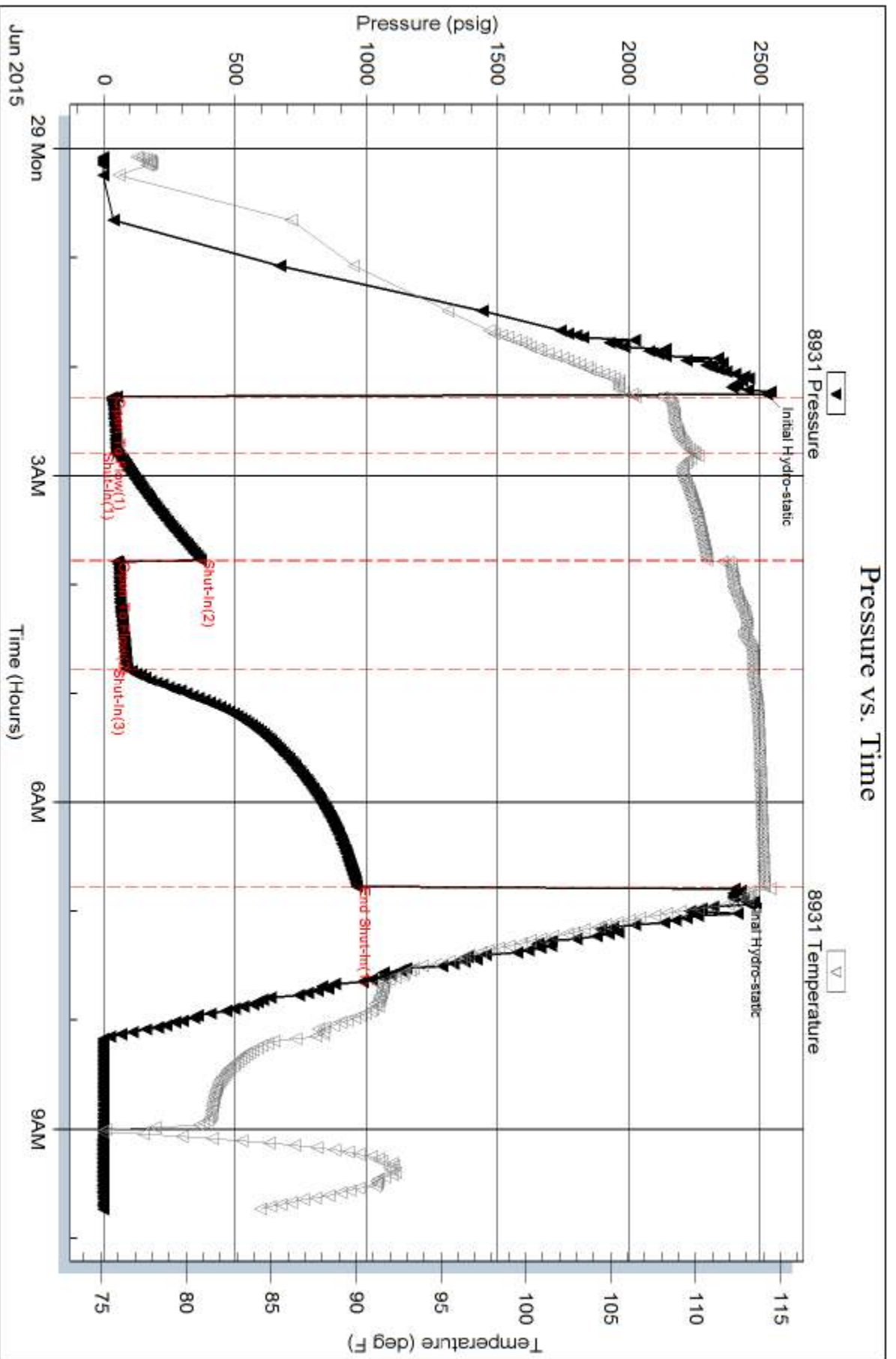
Serial #: 8931

Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 5



LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: VINCENT OIL CORP. FRINK-BROWN #1-28
API: 15-057-20963-00-00
Location: SE NE SE SW SEC. 28, T28 S, R 23 W, FORD CO. KANSAS
License Number: 5004
Spud Date: JUNE 18th, 2015
Surface Coordinates: 760' FSL, 2,610' FWL
Region: MULBERRY CRK.
Drilling Completed: JUNE 29th, 2015

Bottom Hole
Coordinates:
Ground Elevation (ft): 2,463' K.B. Elevation (ft): 2,476'
Logged Interval (ft): 4,100' To: 5,300' Total Depth (ft): 5,300'
Formation: MISSISSIPPI
Type of Drilling Fluid: NATIVE MUD TO 3,787'. CHEMICAL GEL TO RTD

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

OPERATOR

Company: VINCENT OIL CORP.
Address: 155 N. MARKET STE 700
WICHITA, KANSAS 67202-1821
OFFICE; 316-262-3573

GEOLOGIST

Name: Jame R. Hall (Well Site Supervision)
Company: Black Gold Petroleum
Address: 5530 N. Sedgwick
Wichita, Kansas 67204-1828
Office: 316-838-2574, cell: 316-217-1223

Comments

Drilling contractor: DUKE, Rig #9, Tool Pusher; Emigdio Rojas.

Surface Casing: 8 5/8" 23# set at 666' w/250sx, cement, did circulate.

Daily Activity @ 06:00

6/18/15; Moved on location, rig up and spud.

6/19/15; Drilled to 670' with 12 1/4" bit, ran 8 5/8" csg. and preparing to run cement.

6/20/15; Drilling @ 1,740', with native mud, ran survey @ 1,671'.

6/21/15; Drilling @ 2,828', with native mud.

6/22/15; Drilling @ 3,540', with native mud.

6/23/15; Drilling @ 4,230', mud up @ 3,787' with chemical-gel fresh water system.

6/24/15; Drilling @ 4,630', trip for new bit @ 4,568', pipe strap 1.48' short, ran survey 1 deg., trip back in with junk basket prior to drilling ahead.

6/25/15; @ 4,989' short trip prior to DST #1 4,953 - 4,989' (36').

6/26/15; Drilling Lower Penn. @ 5,090'. After DST #1 removed junk basket from drilling string.

6/27/15; @5,146' tripping out for DST #3 5,113' - 5,146' (33'). Ran DST #2 5,034' - 5,118' (84').

6/28/15; 5,165' Ran DST #3. Running DST #4 5,150' - 5,165' (15').

6/29/15; 5,200' running DST #5 5,172' - 5,200' (28').

6/30/15; 5,300 RTD, 5,298' E-LOG TD, ran open hole logs, and rig is making ready to run 4.5" production casing.

Deviation Surveys: 1deg. @ 670', 1.25 deg. @ 1,671', 1.5 deg. @ 3,661', 1 deg. @ 4,568', 1 deg. @ 4,989', 1 deg. @ 5,146', 1 deg. @ 5,200'.

Bit Record:

#1 12 1/4" out @ 670'.

#2 7 7/8" JZ HA20-Q in @ 670', out @ 4,568', made 3,898',

#3 7 7/8" JZ QX 28 in @ 4,568', out @ 5,300', made 732'.

Drilling time commenced: @ 4,100'. Maximum 10' wet and dry samples commenced: @ 4,150' to RTD (5,300'). Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem Lab, unit #5992. Digital Unit, (commenced @ 4,100' and finished @ 5,300').

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,787', Mud Engineer: Justen Whitin (Dodge City Office).

DST's: Trilobite Testing Hays, Kansas. Tester; Matt Smith (Pratt Office).

Open Hole Logs: , Casedhole Solutions, Hays, Kansas,

Logging Engineer: Blake Waggoner.

DIL, CDL/CNL/PE (TD to 4,150'), Mico Log (TD to 4,150), SONIC (TD to base of surface casing).

Sample tops are placed on this Plotted Geo. Report, with the reference wells "A" Vincent Oil Corp. Frink #1-28, 40'FSL, 1,620' FWL 28-T28S-R23W, and "B" Vincent Oil Corp. Brown #2-28 SE SE NW SE 28-T28S-R23W. Tops datum differences shown.

This Strip Log has to be shifted 4' shallow to match the Open Hole Log.

DSTs

DST #1 4,953'-4,989' (36'), 30-60-60-120, IH 2536, IF 21-65, fair building to BOB in 29mins, ISI 845, no blow, FF 56-90, fair building to BOB 4.5mins. FSI 859, weak blow in 35min building to 1/2", then dead at 1hr 15mins., FH 2403, Rec; 1728'GIP, 20' GOCM (10%gas,10%oil, 80%mud), 60' MWOCG (74%gas,15%oil, 6%water, 5%mud), 60' MWOCG (63%gas,27%oil, 7%water, 3%mud), 60' MWOCG (55%gas, 25%oil, 17%water, 3%mud). (200' total fluid recovered), BHT 113deg F, Rw 0.16 @ 84 F (Rwa 0.1189 @ 113 F), chl 38,000ppm, chl mud 8,600ppm.

DST #2 5,034' - 5,118' (84'), 45-60-60-90, IH 2499, IF 66-111, fair to strong BOB 1.5min (GTS 42min-orange flame), ISI 804, no blow, FF 56-135, BOB, (GTS immd.-orange flame), Gauged; 30min 9.1mcf, 20min 13.3mcf, 30min 16.6mcf, 40min 20.0mcf, 50min 22.2mcf, 60min 25.6mcf, (gas sample taken), FSI 808, no blow, FH 2463, Rec: 4,781' GIP, 80' oil specked Gsy Mud (3%gas, 97%mud), BHT 113 F.

DST #3 5,113' - 5,146' (33'), 45-90-90-120, IH 2535, IF 88-88, BOB 30sec, GTS 15min, Gauged; 20min 662.3mcf, 30min 428mcf, 40min 396.7mcf,45min 381.1mcf, ISI 832 no blow, FF 130-91, BOB immd, GTS immd, Gauged; 10min 443.6mcf, 20min 428mcf, 30min 412.4mcf, 40min 412.4mcf, 50min 396.7mcf, 60min 396.7mcf, 70min 396.7mcf, 80min 396.7mcf, 90min 396.7mcf (orange flame, sample taken), FSI 816 no blow, FH 2438, Rec; 4,860' GIP, 5' mud, 60' gas cut mud, (2%gas, 98%mud), BHT 112 F.

DST #4 5,150' - 5,165' (15'), 45-90-60-120, IH 2590, IF 65-106, BOB 20sec. GTS 16min, Gauged 20min 771.6mcf, 30min 506.1mcf, 40min 490.5mcf, 45min 490.5mcf, ISI 845 no blow, FF 80-109, BOB & GTS immd., Gauged 10min 506.1mcf, 20min 537.3mcf, 30min 552.9mcf, 40min 560.8mcf, 50min 568.6mcf, 60min 568.6mcf, (gas sample taken, blue yellow flame), FH 2419, Rec; 4,887' GIP, 10' gas cut mud (2%gas, 98%mud), 60' gsy water cut mud (5%gas,15%water, 80%mud), BHT 109 F, Rw 0.24 @97F (Rwa @ BHT 0.213), chl 20,000ppm, chl mud 10,000ppm.

DST #5 5,172' - 5,200' (28'), 30-60-60-120, IH 2525, IF 29-47 BOB 22min, FSI 368 no blow, FF 48-88 BOB 12min, FSI 963 no blow, FH 2404, Rec; 448' gas in pipe, 10 oil spected mud (trace oil, 100% mud), 60' watery oil cut gassy mud (14%gas, 5%oil, 1% water, 80%mud), 60' oil water cut gassy mud (17%gas, 7%oil, 12%water, 64%mud), Total fluid recovered 130', BHT 114 F, Rw 0.18 @ 79 F (Rwa 0.125 @ BHT), chl 36,000ppm, drilling mud 10,000 ppm.

Serial #: 8931

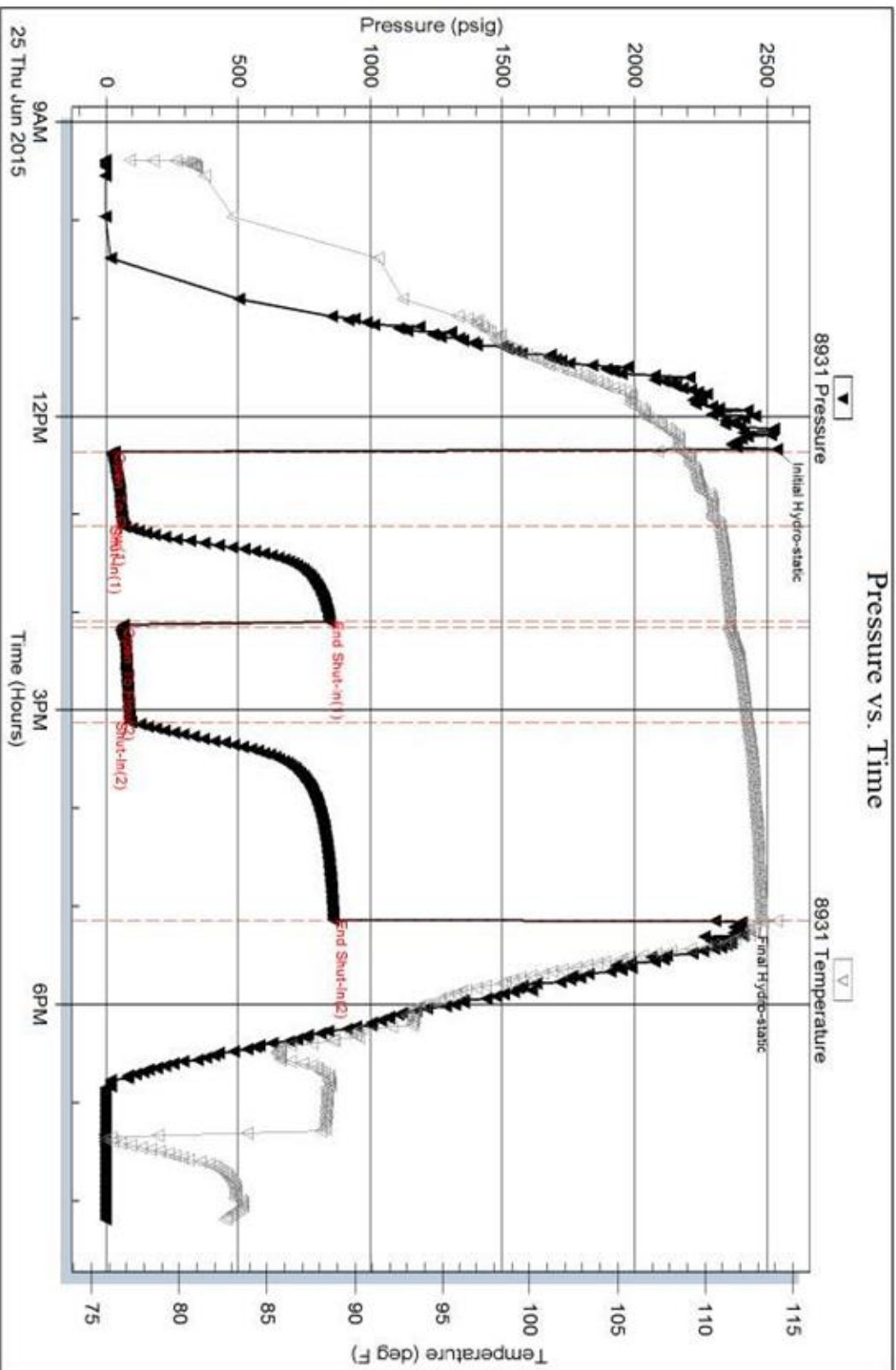
Inside

Vincent Oil Corporation

Frnk-Bow n-1-28

DST Test Number: 1

Pressure vs. Time



Serial #: 8931

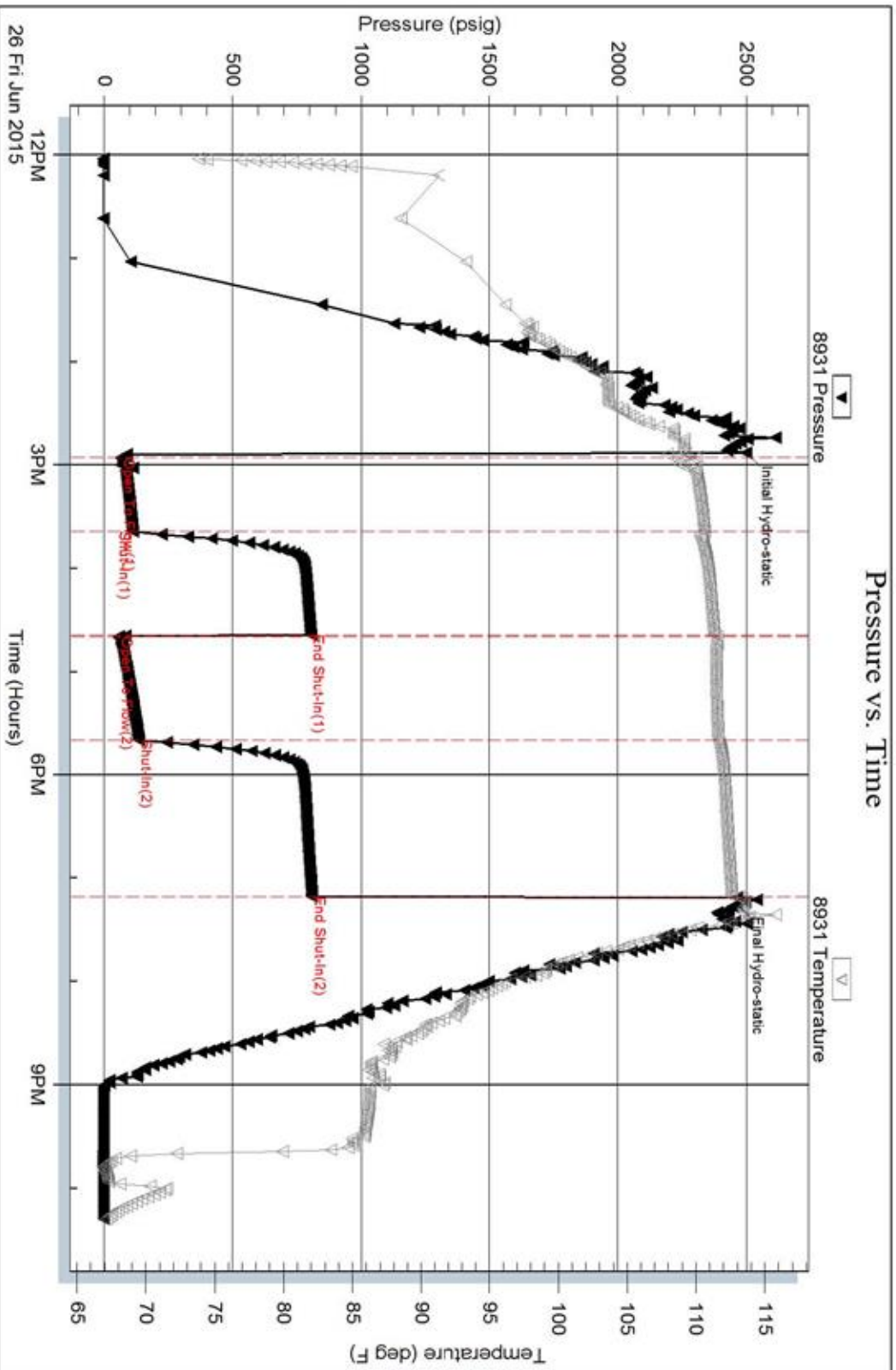
Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59803

Printed: 2015.06.26 @ 22:55:00

Serial #: 8931

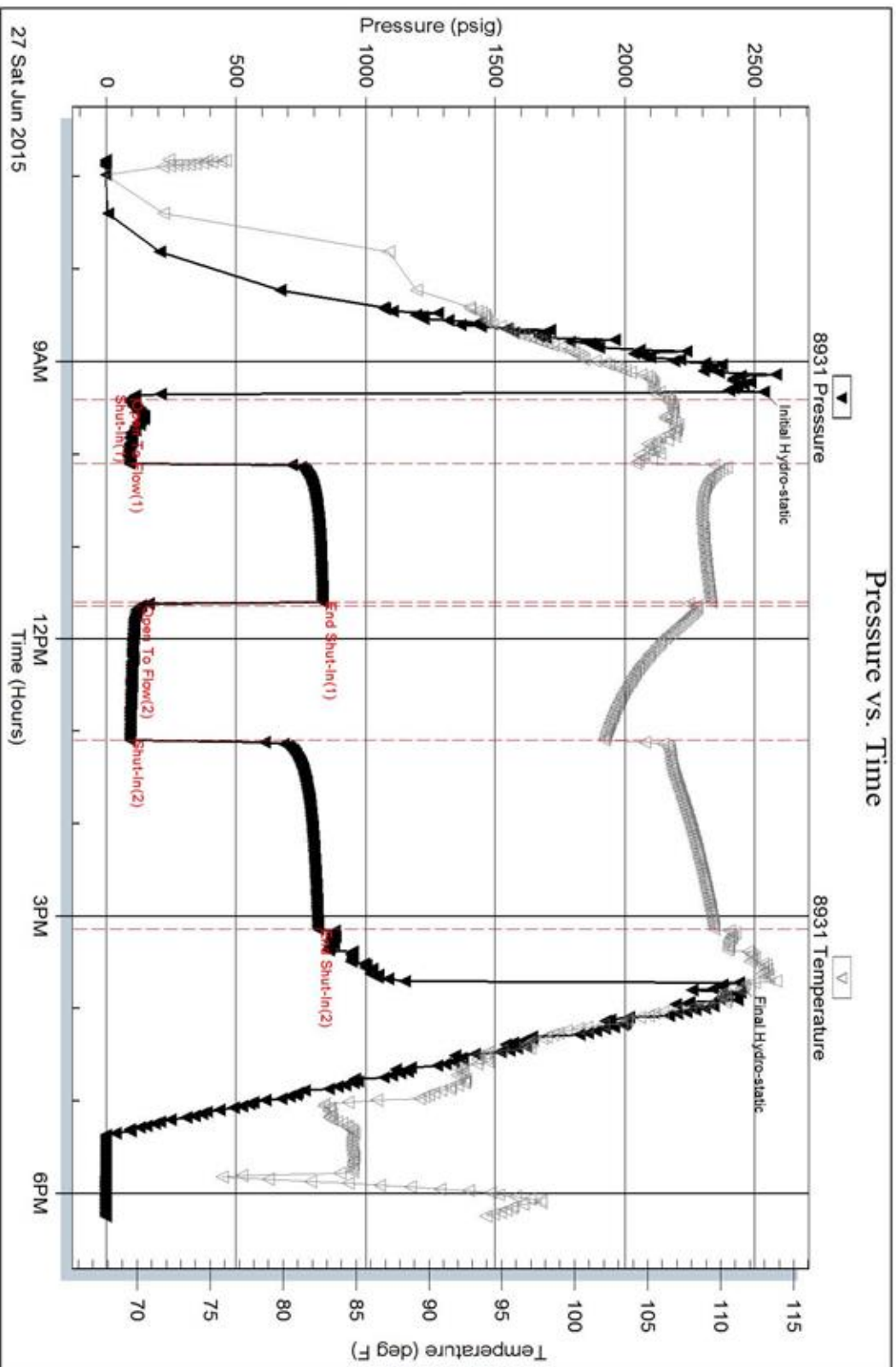
Inside

Vincent Oil Corporation

Frink-Brown 1-28

DST Test Number: 3

Pressure vs. Time



Serial #: 8931

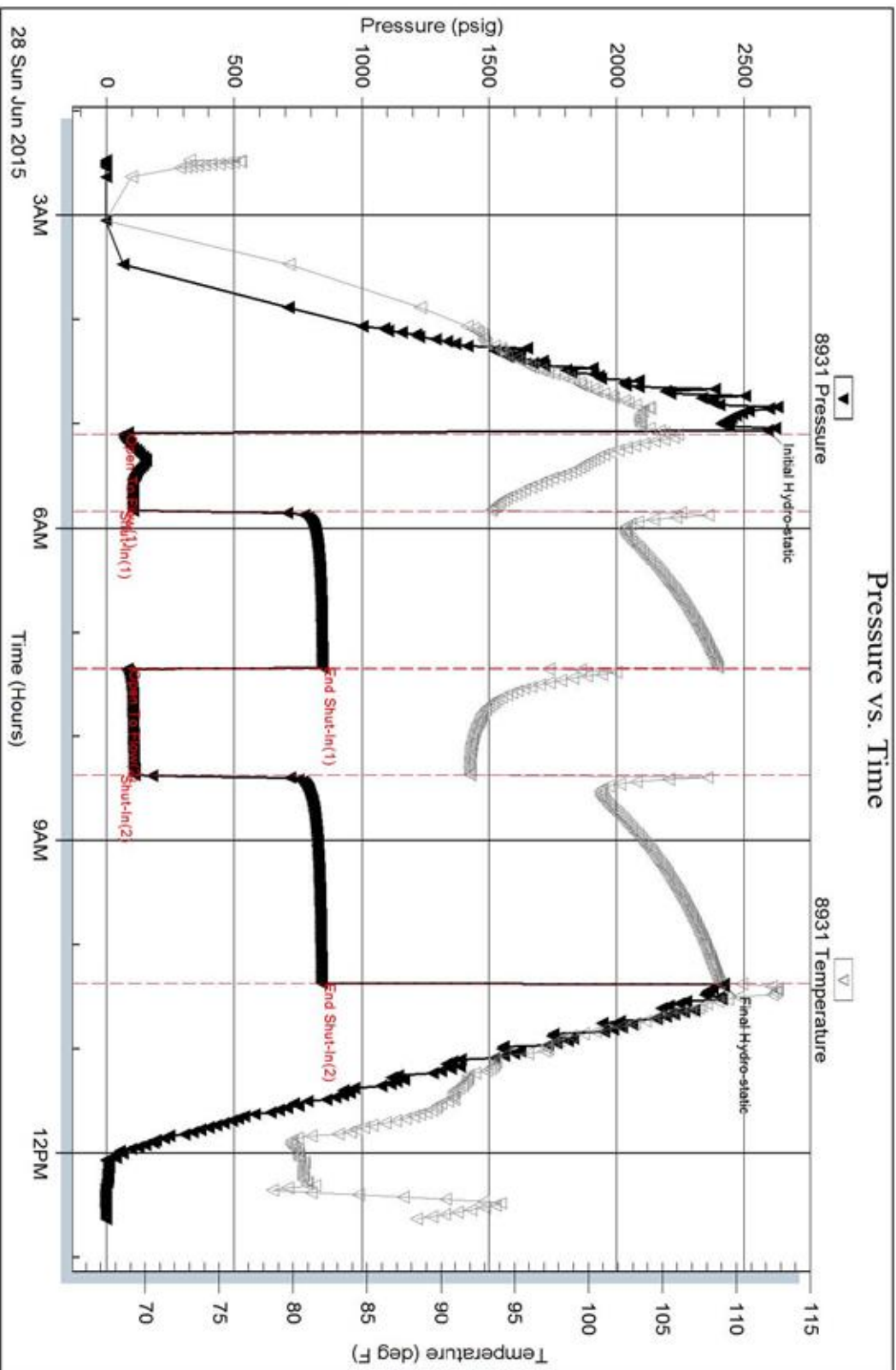
Inside

Vincent Oil Corporation

Frink-Bow n 1-28

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59805

Printed: 2015.06.28 @ 22:49:23

Serial #: 8931

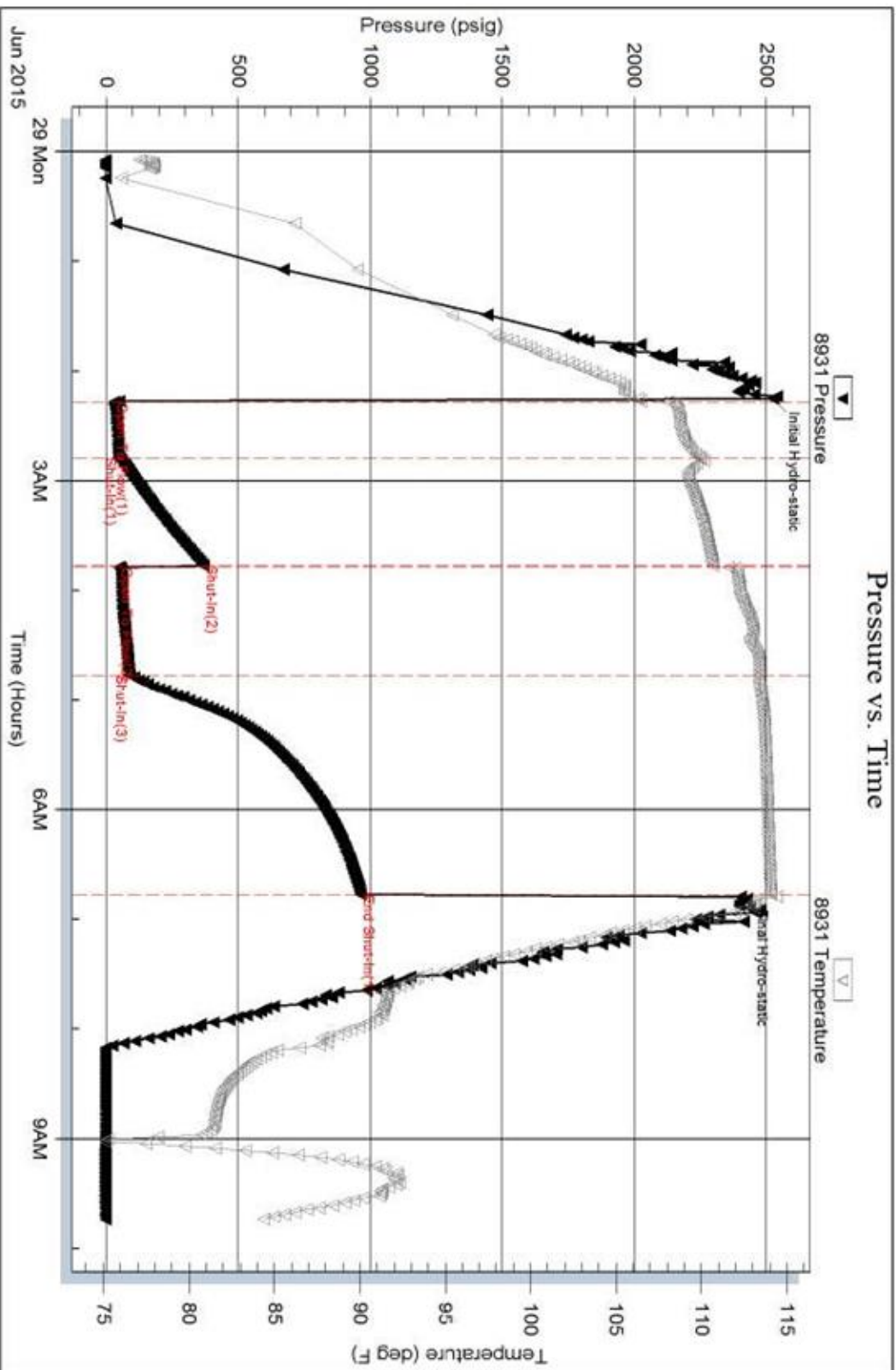
Inside

Vincent Oil Corporation

Frick-Bow n 1-28

DST Test Number: 5

Pressure vs. Time



WELL SITE OPERATIONS / JIM HALL SUPERVISOR

OPERATOR:

Vincent Oil Corp.

WELL REFERENCE SHEET

SUBJECT WELL:

Frink-Brown #1-28

SUBJECT WELL LOCATION:

SE NE SE SW Sec 28-T28S-R23W

SUBJECT WELL DATUM:

2,476

REF. WELL 'A'

Frink #1-28 40'FSL, 1620'FWL 28-28S-23W

DATUM:

2,526

REF. WELL 'B'

Brown #2-28 SE-SE-NW-SE 28-28S-23W

DATUM:

2,483

E-LOG TOPS

**SUBJECT WELL:
ZONE**

WELL 'A'

WELL 'B'

	DEPTH	DATUM	DEPTH	DATUM	REF.	DEPTH	DATUM	REF.	
HEEB.	4,267	-1,791	4,322	-1,796		5	4,292	-1,809	18
Brown Ls.	4,403	-1,927	4,459	-1,933		6	4,428	-1,945	18
Lansing	4,412	-1,936	4,469	-1,943		7	4,437	-1,954	18
Stark Sh	4,753	-2,277	4,808	-2,282		5	4,772	-2,289	12
Hushp. Sh	4,794	-2,318	4,847	-2,321		3	4,811	-2,328	10
Marmaton	4,900	-2,424	4,954	-2,428		4	4,921	-2,438	14
PAWNEE	4,971	-2,495	5,025	-2,499		4	4,987	-2,504	9
Labette Sh	4,996	-2,520	5,051	-2,525		5	5,014	-2,531	11
CKE Sh	5,016	-2,540	5,075	-2,549		9	5,033	-2,550	10
2nd CKE	5,042	-2,566	5,103	-2,577		11	5,061	-2,578	12
B/Penn.	5,117	-2,641	5,172	-2,646		5	5,128	-2,645	4
Sd / Chrt	5,235	-2,759	5,192	-2,666		7	5,143	-2,660	1
MISS.	5,143	-2,667	5,196	-2,670		3	5,157	-2,674	7
RTD	5,300	-2,824							
LTD	5,298	-2,822							





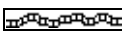

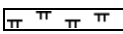

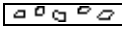

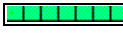

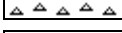

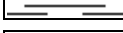




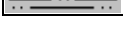

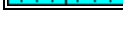

Qualifiers

CARBONATE CLASSIFICATION:

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

Qualifiers; (Fossils, Minerals, Shows, Porosity, etc.) Rare = less than 1% of sample total, Trace = less than 5% of sample total, Greater than 5% an estimate of total percentage.

ROCK TYPES

 Anhy	 Congl	 Lmst	 Black sh
 Bent	 Sdy dolo	 Mrlst	 Gry sh
 Brec	 Shy dolo	 Salt	 Shale
 Cht	 Dol	 Shale	 Shysltst
 Clyst	 Gyp	 Sltst	 Sltysht
 Coal	 Sdy lmst	 Ss	

ACCESSORIES

MINERAL

- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt

- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

- Pelec
- Pelloidal
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

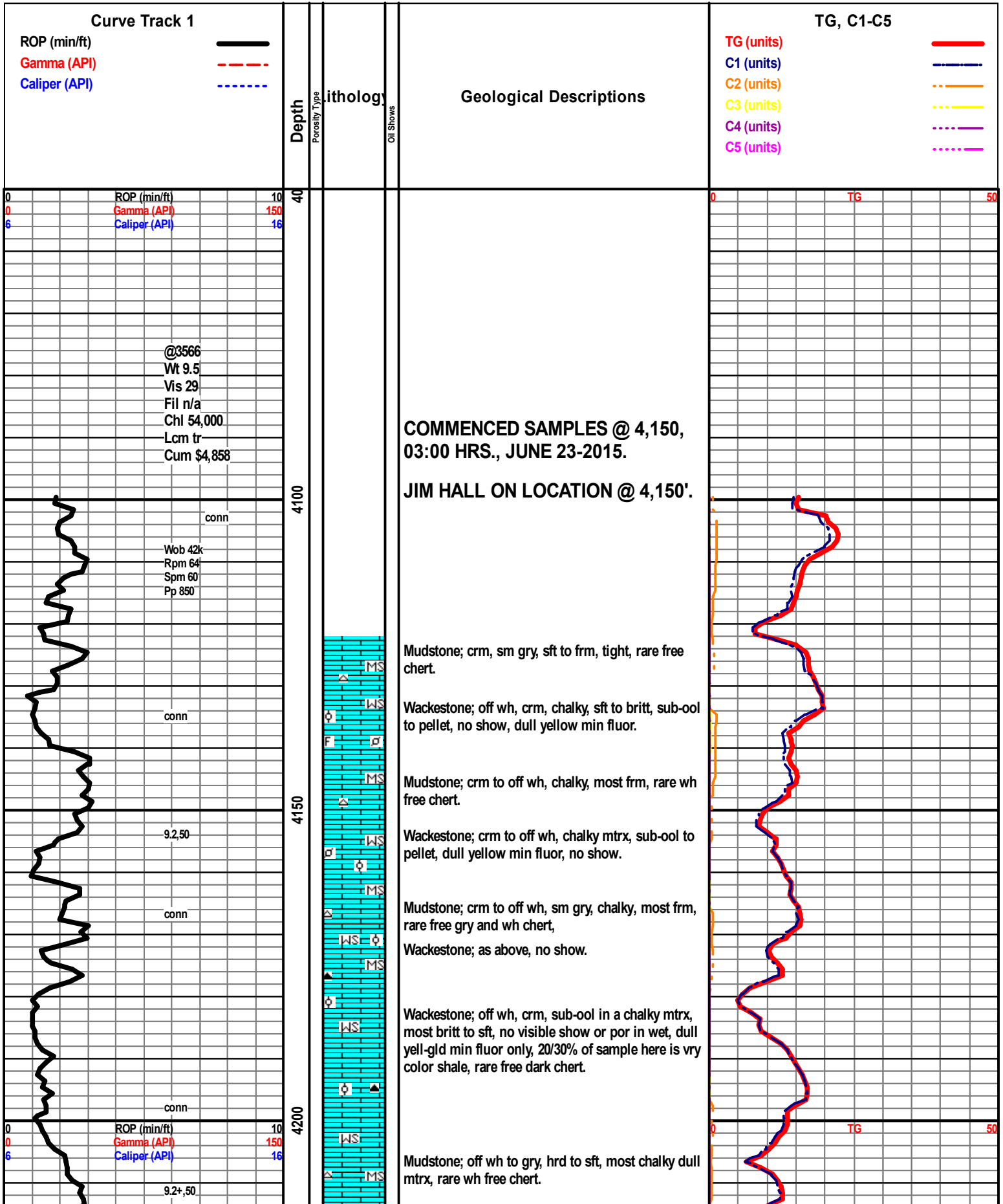
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

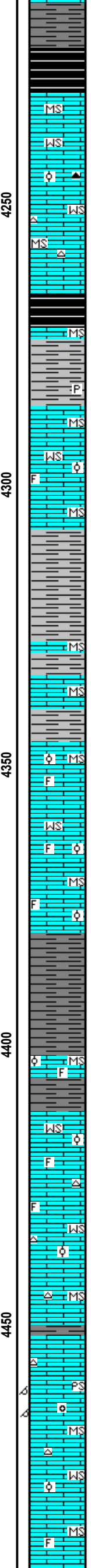
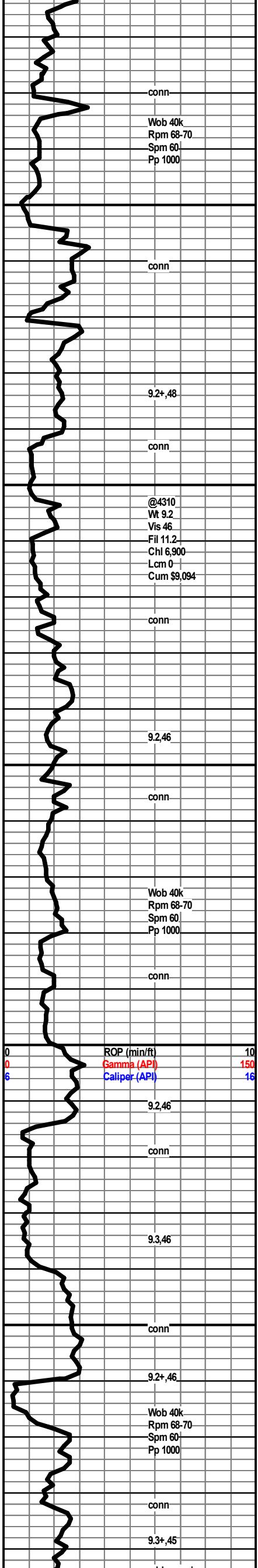
STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest





Shale; >30% gry, gry-grn, to blk, sft to hrd, grng to 10/20% blk hard to sft carb, sm with visable gas bubbles.

Shale; more hrd, gassy blk-carb here.

Wackestone; off wh, crm, sub-ool in chalky mtrx, most britt, no visible por or show in wet, dull yell-gld min fluor only, rare free brn and wh chert, still 40/50% shales as above here.

Mudstone; buff, gry, hrd to frm, chalky to xln-silky luster and dense, dull min fluor only, rare free chert.

Heebner 4267 (-1791) A +5 B +18

Shale; 20/30% blk, carb, hrd-gsy, sft-gsy when broken.

Shale; > 40% brick-red, red-brn, and pale grn, sft to hrd, rare pyrite laminations.

Mudstone; crm to gry, most chalky hrd, some with drk inculsions.

Wackestone; crm to off wh and buff, sub-ool to vf-ool, chalky mtrx, some foss frag, no show dull yell min fluor, no vis por in wet sample

Shale; 10% of samples, gry, gry-grn, occ red, most sft.

Mudstone; crm to brn, hrd, chalky to xln-silky luster, tight.

Mudstone; as above, no real change here.

Shale; as above, no real large increase in percentage.

Mudstone; gry, brn, hrd, chalky to xln, frm to britt, some ool-Wackestone here, tight, no show, Shale 20% of sample.

Wackestone; off wh, crm, vf-ool to sub-ool, sm foss frag, most in chalky mtrx, occ xln mtrx, no show, no vis por or show in wet.

Mudstone; gry, tan, hrd, chalky to xln, dnese, Shale 5-10% of sample.

Shale; gry, drk gry, sft, some red, rthy to silky texture.

Brown LS 4403 (-1927) A +6 B +18

Mudstone; brn, slky, xln-dense, some foss frag.

Lansing 4412 (-1936) A +7 B +18

Wackestone; crm, tan, sub-ool to fine-ool and rare med-ool, some foss frag in the chalky tight looking mtrx in wet, no show, dull yell-gold min fluor

Wackestone; aa, increase vf-ool to some med-ool, scatt foss frag in chalky to xln mtrx, no show, rare wh free blk chert.

Mudstone; tan, hrd, dense, rare foss-chert.

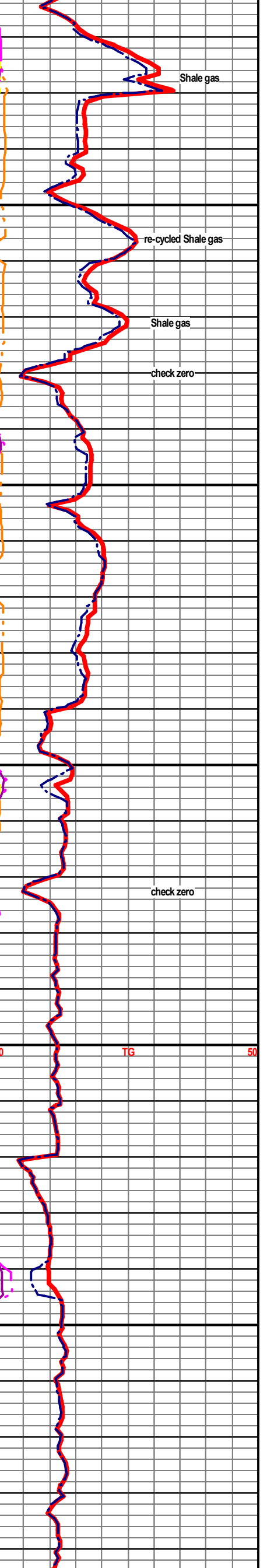
Shale; increase in very colored.

Packstone; tan, brn, hrd to britt, fine-oom to crs-oom, silky xln mtrx, barren oom por, min fluor only, no show.

Mudstone; off wh, crm and brn, hrd to britt, rare pale gry free foss chert here.

Wackestone; sub-ool to vf-ool, no show.

Mudstone; gry to pale gry, chalky dense, rare foss frag.



add pre-mix

Wob 40K
Rpm 68-70
Spm 60
Pp 1000

conn

conn

@ 4568 Trip NB #3

Wob 40k
Rpm 65
Spm 60
Pp 1000

ROP (min/ft)
Gamma (API)
Caliper (API)

conn

@4644
Wt 9.2
Vis 49
Fil 11.6
Chl 8,400
Lcm 0#1
Cum \$10,064

conn

conn, mud pump!

9.2,49

conn

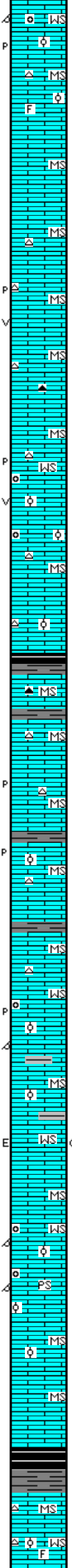
Wob 40k
Rpm 65
Spm 60
Pp 1000

conn

cir@4760"

conn, add premix, Lcm...

4500
4550
4600
4650
4700
4750



Wackestone / Packstone; crm, tan, vf-ool to prly-oom, no show tight look wet, rare barren por in dry sample.

Mudstone / Wackestone; most crm to gry, hrd to britt, sub-ool to foss frag, no show, min fluor only, rare blk wh free chert, Shale approx 20% of samples.

Mudstone; tan to brn, some inc in gry, hrd to britt, chalky to xln mtrx.

Mudstone; as above, sly inc brn as above, Shale approx 20%, rare free wh chert.

Mudstone; crm to tan hrd-britt, sm sub-ool, dense chalky mtrx, sm gry to brn, hrd-chalky, to xln, rare free wh to light gry spculr chert, dry rare very small pp & vgy por.

4568 sample; as above, rare blk light gry spculr chert.

Mudstone; gry, brn, hrd-britt, chalky-xln mtrx, dull min fluor, rare free brn spculr chert, sample quality very poor after trip.

Wackestone; off wh, sub-ool, and rare sub-oom in chalky mtrx, tight look wet, rare free lt gry chert w/wh inclusions, rare very small pp & vgy barren por in dry.

Mudstone; crm, off wh, most chalky mtrx, scatt sub-ool, very dull min fluor, rare free wh chert.

Shale; slight influx, gry, blk-carb-rare gas wh/broken, sample wash gry here.

Mudstone; off wh, crm, chalky, brn & gry silky-xln, rare gry blk free chert.

Mudstone; aa, rare brn-gry sharp to blk free chert, rare vry small por in dry, no stn.

Shale; gry to drk gry.

Mudstone; crm to off wh, chalky, brn xln, some sub-ool, rare light gry chert, very small por in dry, no stn.

Shale; gray to drk gry, sm blk.

Mudstone; slight inc brn and gry, silky xln, dense, rare chert aa some spulr.

Wackestone; off wh, crm, f-ool to sub-ool, tr oom, chalky to xln mtrx, no show, vry dull min fluor, no vis por wet, rare vry small pp and oom por in dry, no stn

Mudstone; off wh, crm, chalky, some sub-ool, tight no show.

Wackestone; scatt, crm-off wh, sub-ool, chalky mtrx, (1) sample with weathered edge, lit brn stn, fluor, inst cut, no odor, no free oil, no other show samples.

Wackestone / Packstone; vf-ool to f-ool, and f-oom, chalky to xln mtrx, very hrd to britt, some fluor, no cut on selected samples,

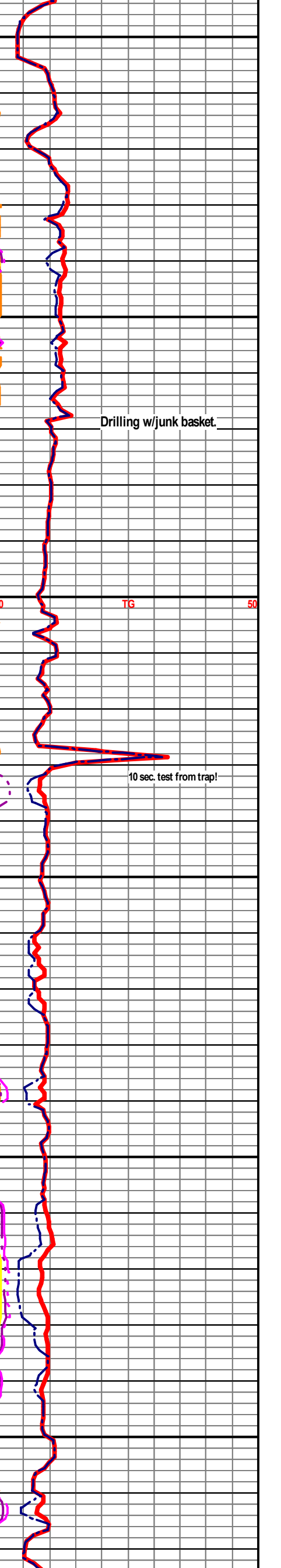
Mudstone / Wackestone; crm, off wh, sub-ool, some foss-frag, tight look wet, no show.

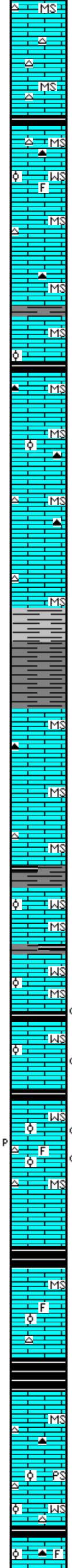
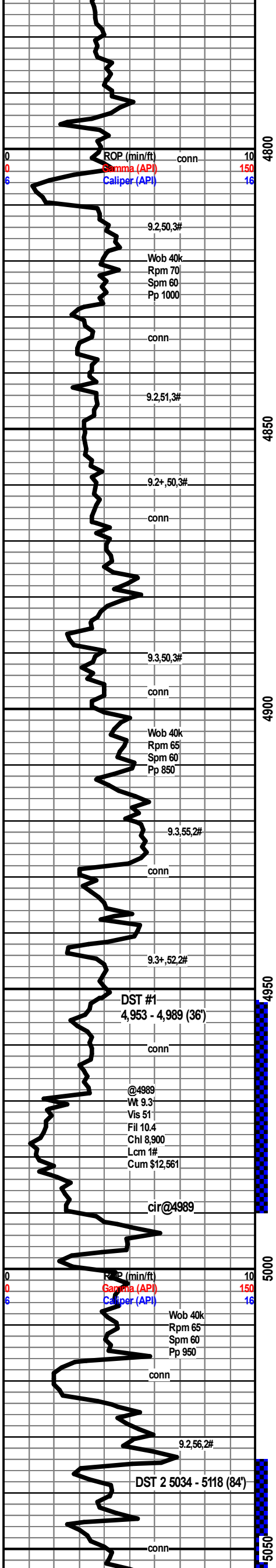
Mudstone; inc tan to brn, hrd, dense xln silky texture.

Stark Shale 4753 (-2277) A+5 B +12

Shale; blk, carb, sft, rare hrd with rare vis gas when broken.

Wackestone; off wh, sub-ool, sm foss frag, tigh look, no show, rare lt gry foss chert.





Mudstone; tan, brn, hrd, silky-xln mtrx, dense, rare mott free chert.

Hush. Shale 4794 (-2318) A +3 B +10
Shale; blk-carb, sft, hrd-some w/vis gas.

Mudstone; buff, gry and brn, rare tan & blk chert.

Wackestone; brn, tan to off wh, vf to f ool in xln to chlky mtrx, tr foss frag, tight look wet, no show, poor sample quality after adding LCM.

Mudstone; off wh, crm, chlky, brn xln-silky textrue, some sub ool look, tight looking, rare free light and dark brn chert, sm foss, still much carbonaceous shale in samples.

Shale; blk, carb, sft to hrd, no vis gas.

Mudstone; inc, brn, hrd, xln-silky textrue, dense, rare blk and tan free cherts.

Mudstone; off wh, crm, chky, britt, sm sub-ool, rare free blk and gry chert, still 20% of samples are shale.

Mudstone; crm, gry, hrd to britt, some crm sub-ool look, some with scatt foss frag, some gry-xln dense no show, trace free blk chert.

Mudstone/ Wackestone; brn, britt to hrd, xln, scatt foss frag and sub-ool in the mtrx, no show, 25% shale here, vry colored, sft to britt, some mott.

Shale; incre in gry, drk gry, pale grn, some mott, some w/carb inclusions, 35% of sample.

Marmaton 4900 (-2424) A +4 B +14
Mudston; crm, lt gry, hrd to britt, chlky to xln, some crm to off wh sub-ool, chlky, rare drk brn free chert, samples wash gry.

Mudstone; crm, tan, most britt, chlky to xln, no show, rare free wh to opq chert, shale 20%, samples wash gry.

Shale; drk gry to blk sft-carb.

Wackestone; crm, off wh, su b-ool, sft to britt, chlky to xln mtrx, no show.

Wackestone; as above, slight incr in hrd, gry mudstone-dense.

Wackestone; crm chlky, sub-ool, rare brt fluor, rare residual ring cut, no odor, no vis oil, poor spty stn.

Pawnee 4971 (-2495) A +4 B +9
Shale; blk-carb, gassy

Wackestone; most off wh, sm crm, hrd to britt, chlky to xln mtrx, vf-ool to sub-ool, rare foss frag, rare free foss frag, most tight, rare barren por in dry, rare spoty stn, no vis gas bubbles, rare vis free oil when broken, rare sample with rainbow when broken, rare to 5% brt fluor, most min, rare resid ring cut, very faint odor, rare chert inclusions, very poor sample show.

Labette Shale; 4996 (-2520) A +5 B +11
Mudstone; crm, gry, hrd-britt, most chky, sm sug-ool, tr foss frag, dense, dull min fluor, sm rare chert inclusions.

CKE Shale 5016 (-2540) A +5 B +10
Shale; blk-carb, hrd-britt, blkly gasy

Mudstone; crm, off wh, hrd-britt, most chky, scatt brn-xln, rare free, drk-lt chert.

Mudstone; aa, rare tan f-med ool Packstone; hrd-fri, no show, rare free blkly vry colored ool chert.

Wackestone; crm, vf-ool to sub-ool, chky to xln mtrx, dense, rare vry colored cherts, rare free foss, no vis show.

