

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) (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	HITZ 3-35
Doc ID	1427804

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	HITZ 3-35
Doc ID	1427804

Tops

Name	Top	Datum
Heebner Shale	4347	(-1815)
Brown Limestone	4485	(-1953)
Lansing	4496	(-1964)
Stark Shale	4831	(-2299)
Base Kansas City	4941	(-2409)
Pawnee	5037	(-2505)
Cherokee Shale	5084	(-2552)
Base Penn Limestone	5179	(-2647)
Mississippian	5197	(-2665)
RTD	5154	(-2722)

QUALITY WELL SERVICE, INC.

6889

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

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
7-25-18	35	28S	23W	Foreo	KI		
Lease	Hitz		Well No.	3-35 Location Kingsdown N to Wilbur Rd			
Contractor	Duke Dalg #1			Owner	2 1/2 W N: Wilbur		
Type Job	Surface			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4	T.D.	698'	Charge To	Vincent DL Copp		
Csg.	8 7/8 23'	Depth	685'	Street			
Tbg. Size		Depth		City	State		
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	42.45	Shoe Joint	42.45	Cement Amount Ordered	1254 mac 31 1/4' cf		
Meas Line		Displace	41.12				
EQUIPMENT				1509 Common 2 1/3			
Pumptrk	8 No.	IS		Common	1509		
Bulktrk	9 No.	1000		Poz Mix	max 125 SK		
Bulktrk	10 No.	MKE		Gel.	11		
Pickup	No.			Calcium	10		
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 60.25			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Ran 16 H's 8 7/8 23" csg set 635'				Sand			
csg on Bottom				Handling 296			
Hook up to csg Break pipe w/cig				Mileage 60			
start Pumping 10 Bbls H2O				8 7/8 FLOAT EQUIPMENT			
START MIC 125 SK MAC				Guide Shoe 1 EA BUFFLE PLATE			
START Mix 150 SK Common 2 1/3				Centralizer 1 EA 8 7/8 Wooden Plug			
SHUT DOWN				Baskets			
RELEASE 8 7/8 Wooden Plug				AFU Inserts			
START DISP				Float Shoe			
Plug down 12:00 500'				Latch Down			
Good Circ thru Job				SERVICE SUPERVISOR			
Circ cut to Pit				LMV 60			
Thank You				Pumptrk Charge SURFACE			
PLEASE CALL AGAIN				Mileage 120			
TODD JS MKE							
Signature <i>[Signature]</i>							
				Tax			
				Discount			
				Total Charge			

QUALITY WELL SERVICE, INC.

6897

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

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				
3-4-13	35	23S	23W	FORO	KS						
Lease	H-12		Well No.	3-35				Location	Kingsdown KS N to Wilbourn KS 212 W		
Contractor	DUKE DELS #1			Owner	N.W. INTD						
Type Job	PTA			To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8		T.D.	5254'							
Csg.	4 1/2 O.P.		Depth	1550							
Tbg. Size			Depth	Charge To				Vincent Oil Corp			
Tool			Depth	Street							
Cement Left in Csg.			Shoe Joint	City				State			
Meas Line			Displace	The above was done to satisfaction and supervision of owner agent or contractor.				Cement Amount Ordered		130 x 60/40 4% FEL	
EQUIPMENT											
Pumptrk	9	No.	TJ		Common	102					
Bulktrk	10	No.	MIKE		Poz. Mix	6B					
Bulktrk		No.			Gel.	6					
Pickup		No.	TODD		Calcium						
JOB SERVICES & REMARKS											
Rat Hole	30 x 60/40 4% FEL			Hulls							
Mouse Hole	20 x 60/40 4% FEL			Salt							
Centralizers				Flowseal							
Baskets				Kol-Seal							
D/V or Port Collar				Mud CLR 48							
1st Plug	1550' 50% 60/40 4% FEL			CFL-117 or CD110 CAF 38							
Pump H2s				Sand							
Mix Pump	50% 60/40 4% FEL			Handling				176			
0.50 H2s	= M20			Mileage				(2)			
2nd Plug	720' 50% 60/40 4% FEL			FLOAT EQUIPMENT							
Pump H2s				Guide Shoe							
Mix Pump	50% 60/40 4% FEL			Centralizer							
0.50 H2s				Baskets							
3rd Plug	60' 20% 60/40 4% FEL			AFU Inserts							
Mix Pump	20% 60/40 4% FEL			Float Shoe							
				Latch Down							
				SERVICE SUPERVISOR							
				LMV 60'							
Thank you				Pumptrk Charge				PTA			
PLEASE CALL AGAIN				Mileage				120			
TODD TS MIKE								Tax			
								Discount			
								Total Charge			
X Signature	Mike Brady										



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 200 W Douglas Ave #725
 Wichita, KS 67202
 ATTN: Tom Dudgeon

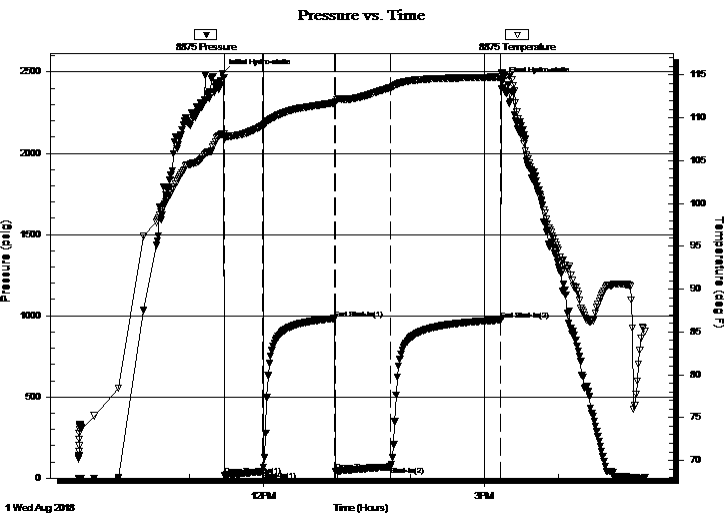
35-28S-23W Ford
Hitz 3-35
 Job Ticket: 63994 **DST#: 1**
 Test Start: 2018.08.01 @ 09:29:56

GENERAL INFORMATION:

Formation: **Pawnee**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:28:43
 Tester: Leal Cason
 Time Test Ended: 17:09:58
 Unit No: 74
 Interval: **5027.00 ft (KB) To 5052.00 ft (KB) (TVD)**
 Reference Elevations: 2532.00 ft (KB)
 Total Depth: 5052.00 ft (KB) (TVD)
 2520.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 12.00 ft

Serial #: 8875 **Inside**
 Press@RunDepth: 70.20 psig @ 5028.00 ft (KB) Capacity: psig
 Start Date: 2018.08.01 End Date: 2018.08.01 Last Calib.: 2018.08.01
 Start Time: 09:29:57 End Time: 17:09:58 Time On Btm: 2018.08.01 @ 11:26:58
 Time Off Btm: 2018.08.01 @ 15:14:28

TEST COMMENT: IF: Weak Blow , Built to 5.5 inches
 IS: No Blow Back
 FF: Weak Blow , Built to 4.75 inches
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2492.40	108.13	Initial Hydro-static
2	18.84	107.66	Open To Flow (1)
32	40.22	109.06	Shut-In(1)
92	982.28	111.72	End Shut-In(1)
92	42.75	111.92	Open To Flow (2)
137	70.20	113.53	Shut-In(2)
226	973.73	114.79	End Shut-In(2)
228	2443.74	115.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	MCW 10%M 90%W	0.91

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

35-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Hitz 3-35

Job Ticket: 63994

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2018.08.01 @ 09:29:56

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:

62000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
65.00	MCW 10%M 90%W	0.912

Total Length: 65.00 ft Total Volume: 0.912 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .1 @ 86 degrees

Serial #: 8875

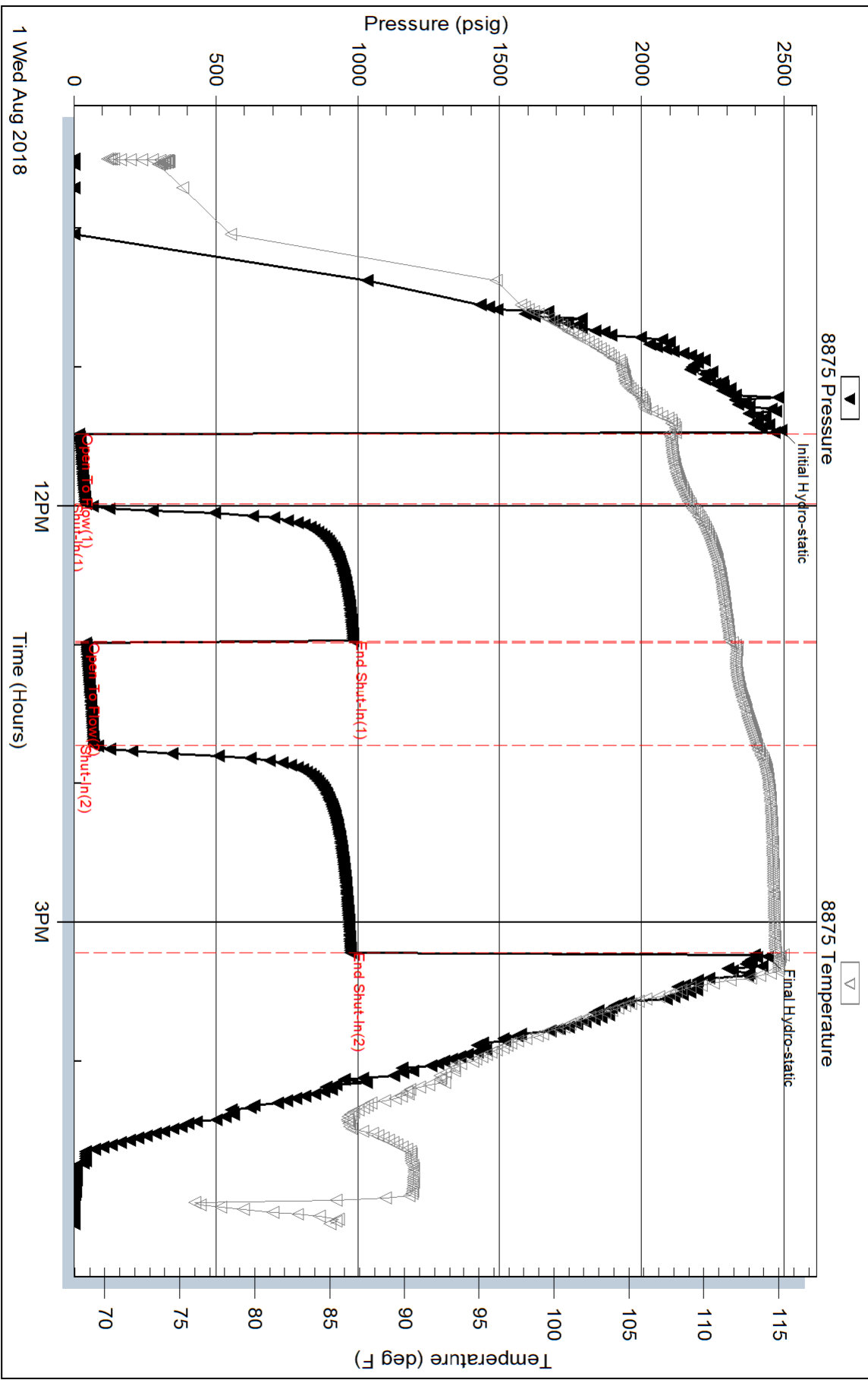
Inside

Vincent Oil Corporation

Hitz 3-35

DST Test Number: 1

Pressure vs. Time

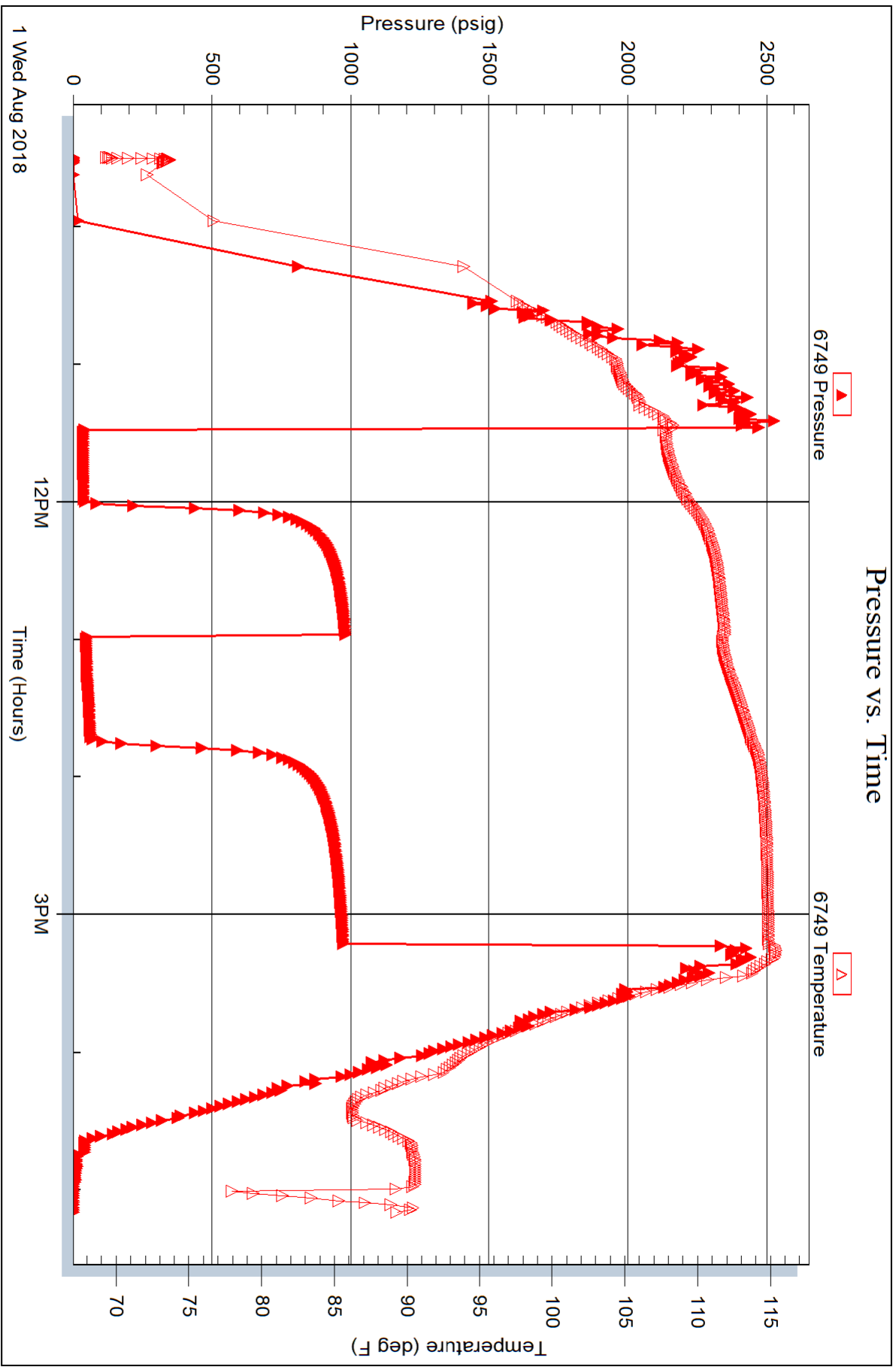


Serial #: 6749

Outside Vincent Oil Corporation

Hitz 3-35

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63994

Printed: 2018.08.01 @ 17:34:02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 200 W Douglas Ave #725
 Wichita, KS 67202
 ATTN: Tom Dudgeon

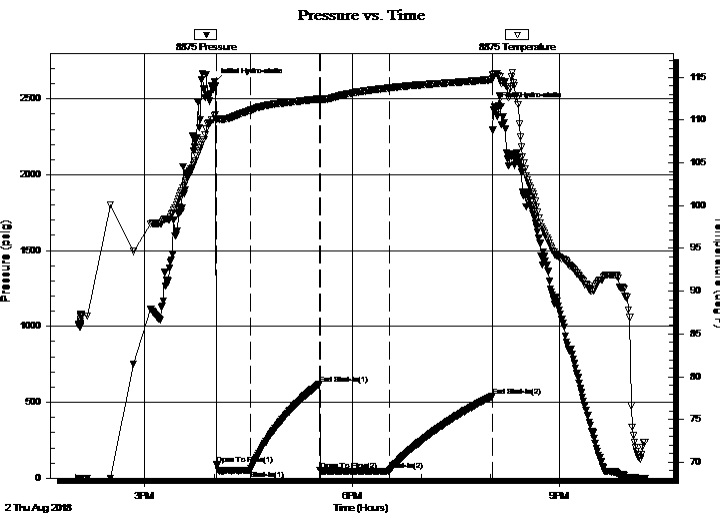
35-28S-23W Ford
Hitz 3-35
 Job Ticket: 63995 **DST#: 2**
 Test Start: 2018.08.02 @ 14:02:20

GENERAL INFORMATION:

Formation: **Basal Penn**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:01:52
 Time Test Ended: 22:14:22
 Interval: **5094.00 ft (KB) To 5197.00 ft (KB) (TVD)**
 Total Depth: 5197.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2532.00 ft (KB)
 2520.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875 **Inside**
 Press@RunDepth: 51.11 psig @ 5095.00 ft (KB) Capacity: psig
 Start Date: 2018.08.02 End Date: 2018.08.02 Last Calib.: 2018.08.02
 Start Time: 14:02:21 End Time: 22:14:22 Time On Btm: 2018.08.02 @ 16:00:07
 Time Off Btm: 2018.08.02 @ 20:03:37

TEST COMMENT: IF: Fair Blow , BOB in 10 minutes, Built to 30.5 inches
 IS: No Blow Back
 FF: Strong Blow , BOB Immediate, Built to 84.25 inches
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2609.32	110.46	Initial Hydro-static
2	89.92	110.06	Open To Flow (1)
32	50.01	111.13	Shut-In(1)
92	619.18	112.44	End Shut-In(1)
92	51.35	112.39	Open To Flow (2)
153	51.11	113.75	Shut-In(2)
242	540.93	114.78	End Shut-In(2)
244	2447.07	115.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	716 GIP	0.00
40.00	SGCM 5%G 95%M	0.56

* 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

35-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Hitz 3-35

Job Ticket: 63995

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2018.08.02 @ 14:02:20

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	716 GIP	0.000
40.00	SGCM 5%G 95%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8875

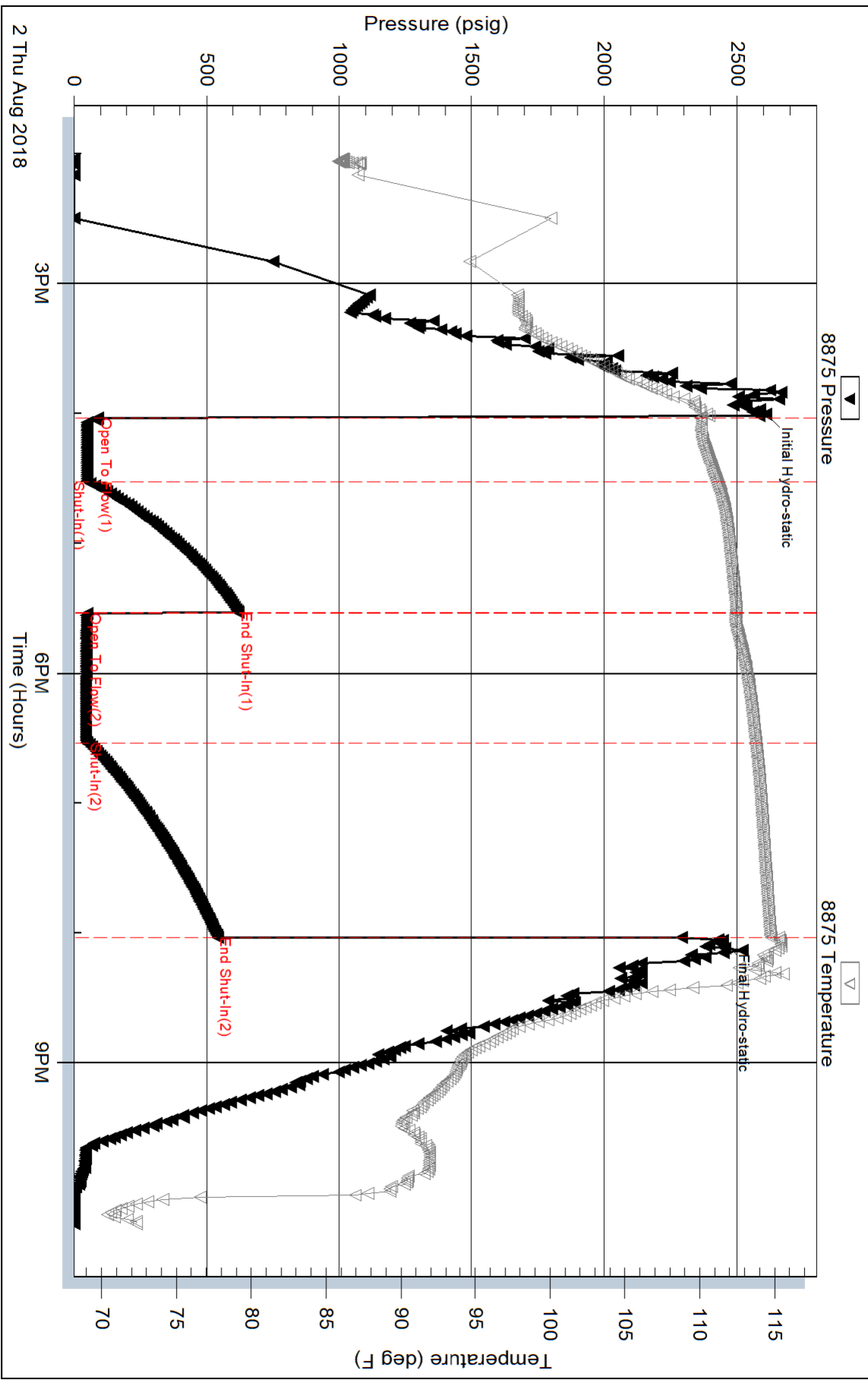
Inside

Vincent Oil Corporation

Hiltz 3-35

DST Test Number: 2

Pressure vs. Time

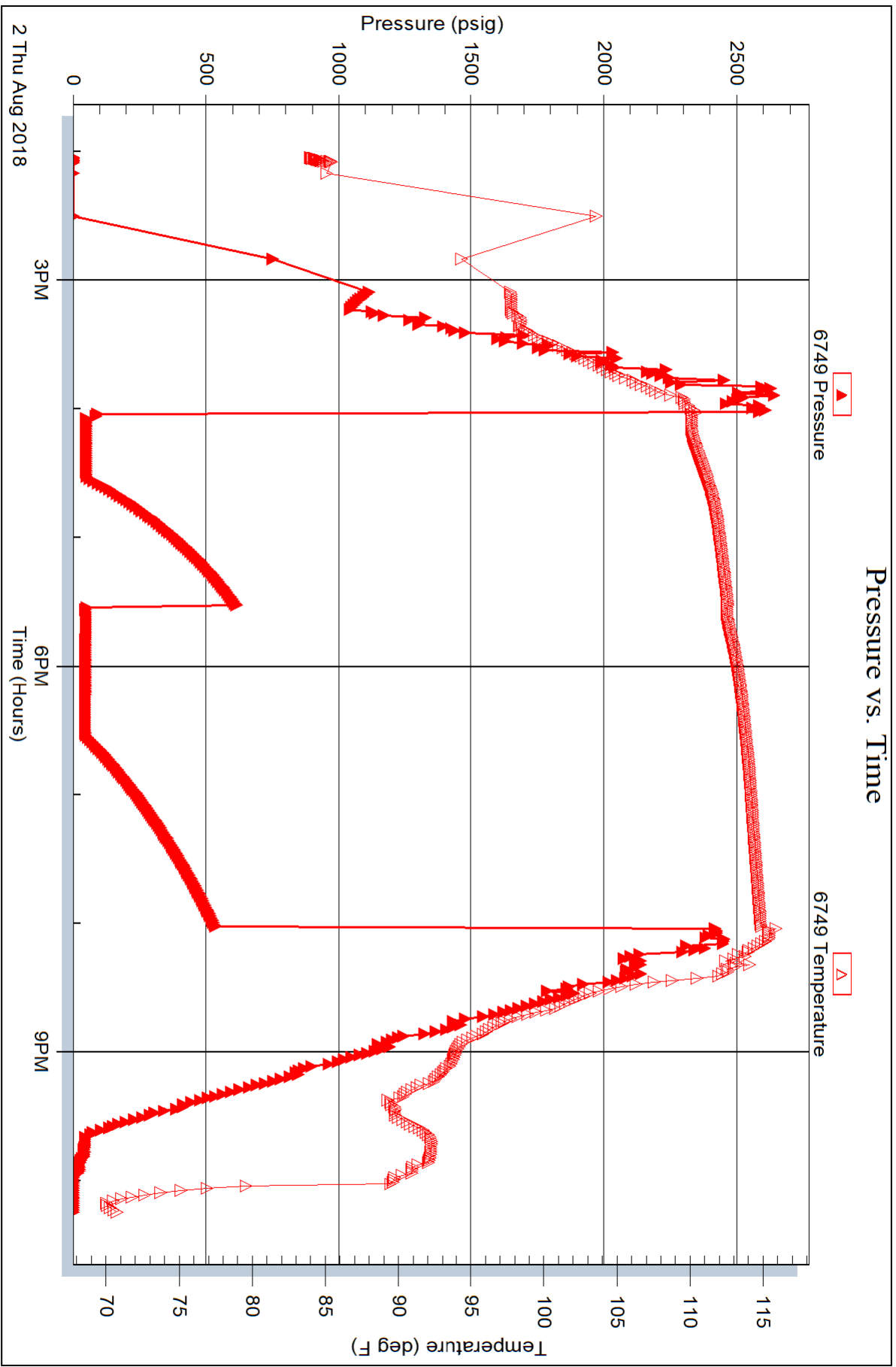


Serial #: 6749

Outside Vincent Oil Corporation

Hitz 3-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63995

Printed: 2018.08.02 @ 22:53:31



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 200 W Douglas Ave #725
 Wichita, KS 67202
 ATTN: Tom Dudgeon

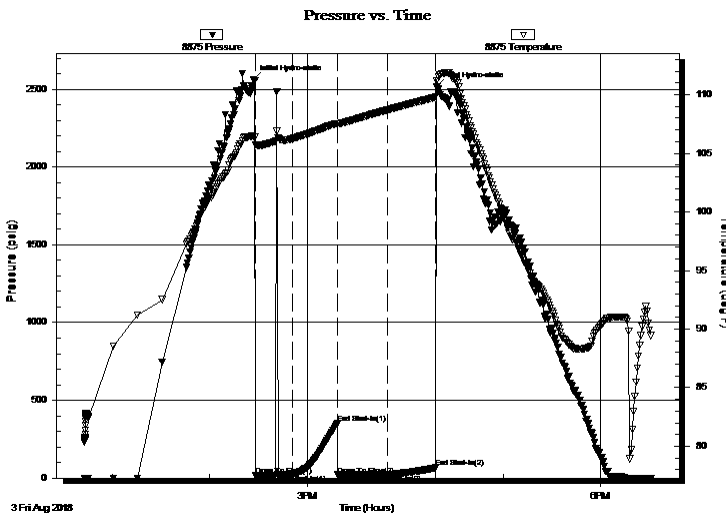
35-28S-23W Ford
Hitz 3-35
 Job Ticket: 63996 **DST#: 3**
 Test Start: 2018.08.03 @ 12:43:10

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:57
 Time Test Ended: 18:31:12
 Interval: **5205.00 ft (KB) To 5254.00 ft (KB) (TVD)**
 Total Depth: 5254.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2532.00 ft (KB)
 2520.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8875 Inside
 Press@RunDepth: 21.75 psig @ 5206.00 ft (KB) Capacity: psig
 Start Date: 2018.08.03 End Date: 2018.08.03 Last Calib.: 2018.08.03
 Start Time: 12:43:11 End Time: 18:31:12 Time On Btm: 2018.08.03 @ 14:26:57
 Time Off Btm: 2018.08.03 @ 16:19:27

TEST COMMENT: IF: Weak Blow, Built to 1.5 inche, Dead @ 8 minutes, Flushed Tool, No Blow
 IS: No Blow Back
 FF: No Blow
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2561.99	106.42	Initial Hydro-static
1	18.62	105.74	Open To Flow (1)
14	18.86	106.07	Flushed Tool
24	23.81	106.23	Shut-In(1)
52	350.25	107.53	End Shut-In(1)
52	21.17	107.53	Open To Flow (2)
82	21.75	108.69	Shut-In(2)
112	66.65	109.83	End Shut-In(2)
113	2514.24	111.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corporation
 200 W Douglas Ave #725
 Wichita, KS 67202
 ATTN: Tom Dudgeon

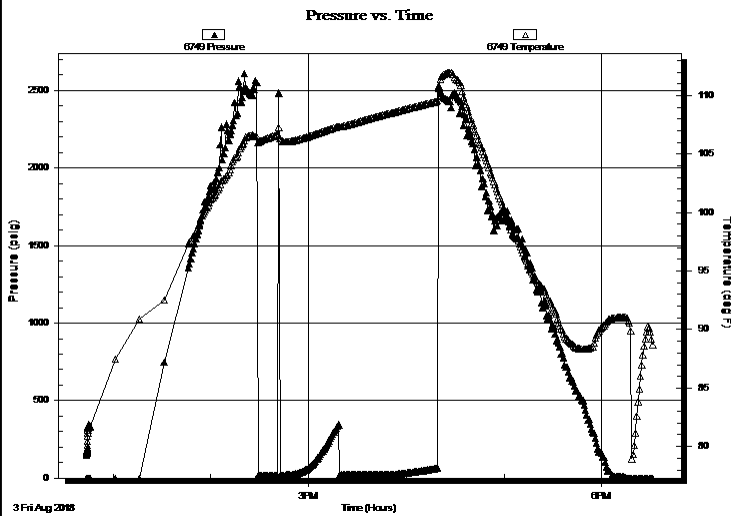
35-28S-23W Ford
Hitz 3-35
 Job Ticket: 63996 **DST#: 3**
 Test Start: 2018.08.03 @ 12:43:10

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:27:57
 Time Test Ended: 18:31:12
 Interval: **5205.00 ft (KB) To 5254.00 ft (KB) (TVD)**
 Total Depth: 5254.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2532.00 ft (KB)
 2520.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 6749 Outside
 Press@RunDepth: psig @ 5206.00 ft (KB) Capacity: psig
 Start Date: 2018.08.03 End Date: 2018.08.03 Last Calib.: 2018.08.03
 Start Time: 12:43:43 End Time: 18:31:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1.5 inche, Dead @ 8 minutes, Flushed Tool, No Blow
 IS: No Blow Back
 FF: No Blow
 FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

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

35-28S-23W Ford

200 W Douglas Ave #725
Wichita, KS 67202

Hitz 3-35

Job Ticket: 63996

DST#: 3

ATTN: Tom Dudgeon

Test Start: 2018.08.03 @ 12:43:10

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8875

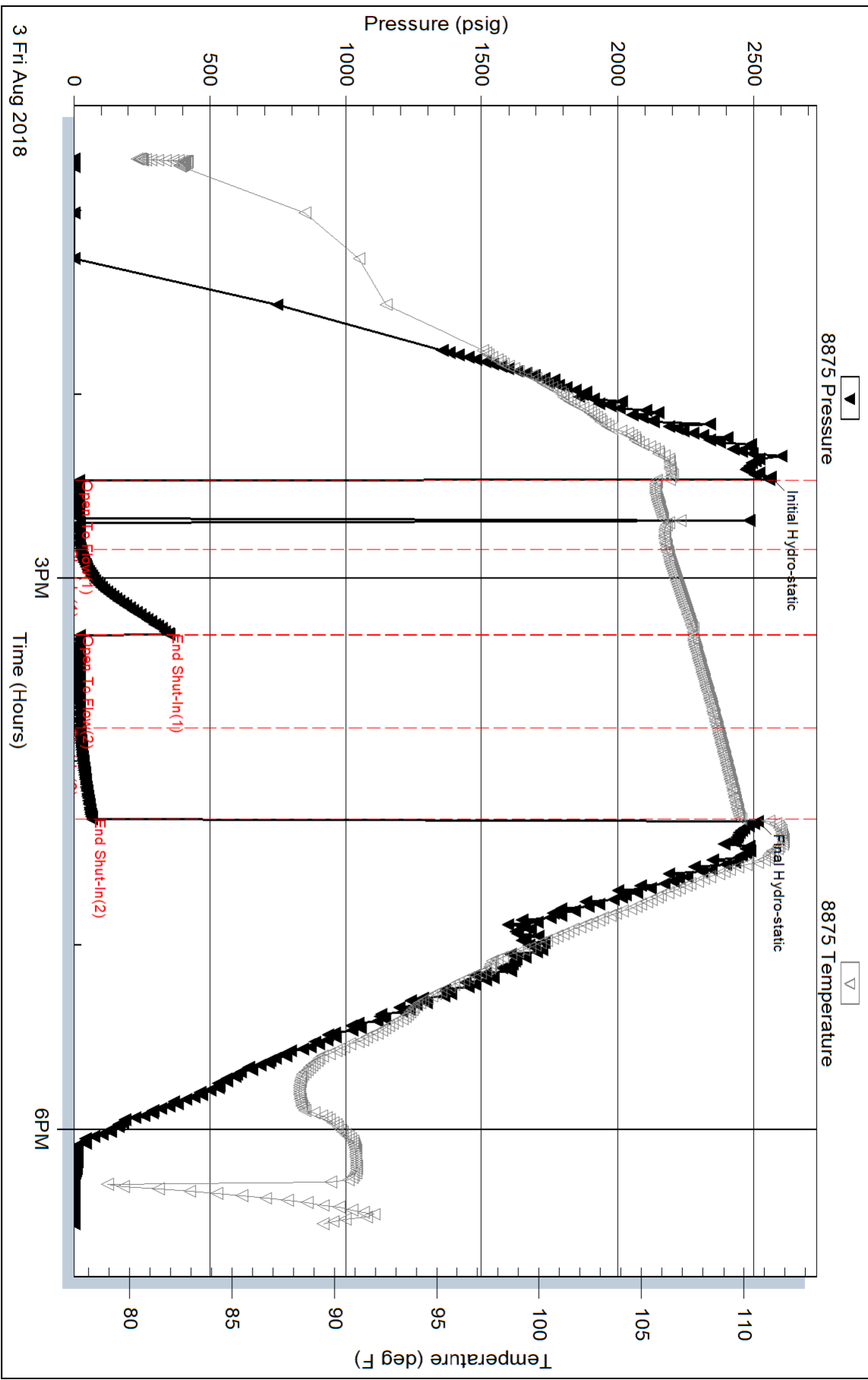
Inside

Vincent Oil Corporation

Hiltz 3-35

DST Test Number: 3

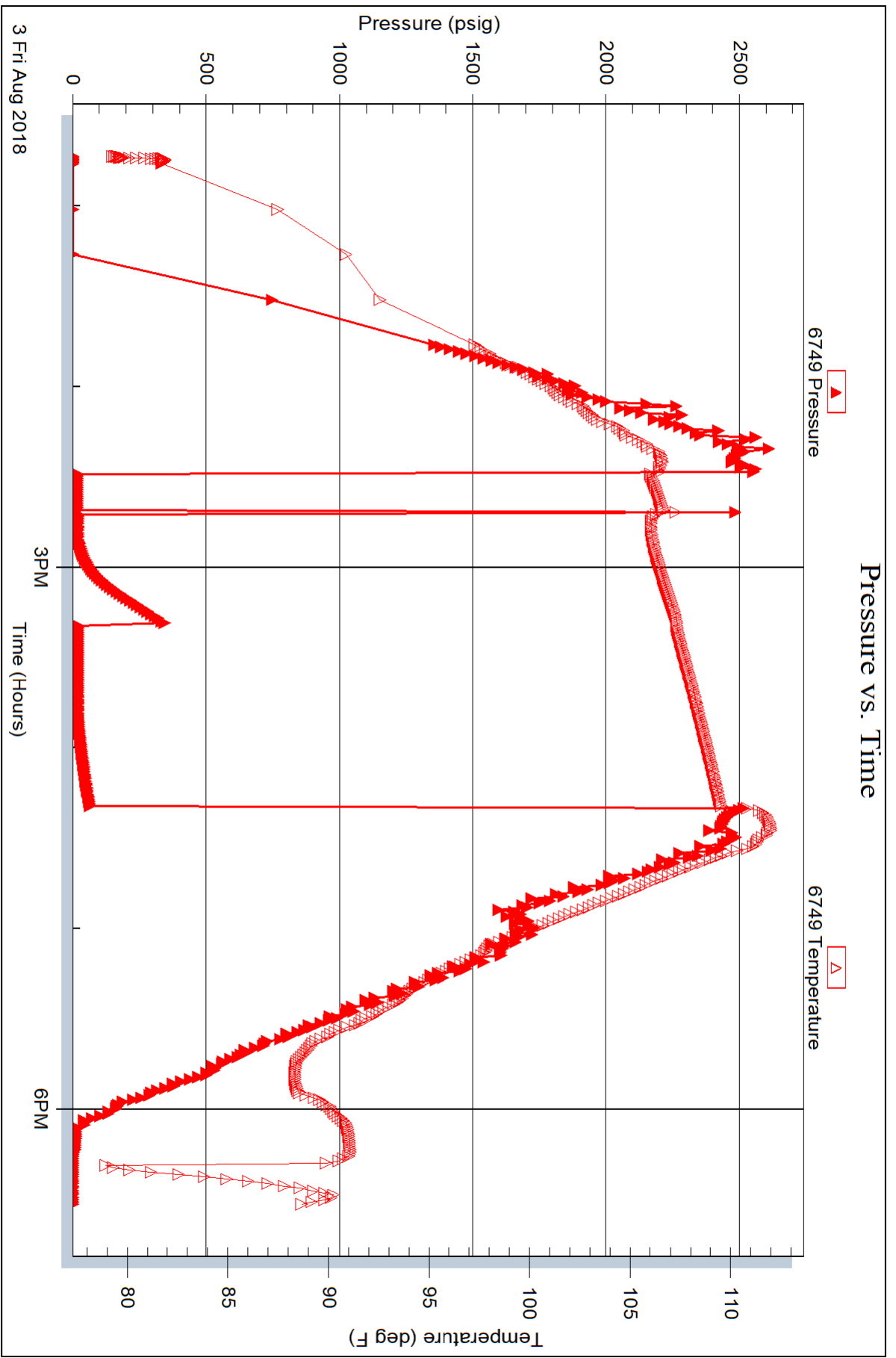
Pressure vs. Time

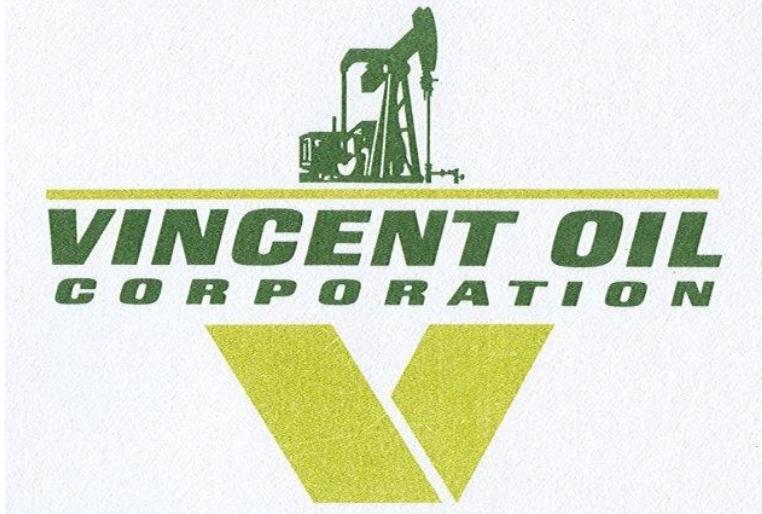


Triobite Testing, Inc

Ref. No: 63996

Printed: 2018.08.03 @ 19:48:43





Scale 1:240 Imperial

Well Name: Hitz #3-35
Surface Location: 532' FNL 445' FWL 35-28S-23W
Bottom Location:
API: 15-057-21000
License Number: 5004
Spud Date: 7/24/2018 Time: 7:30 PM
Region:
Drilling Completed: 8/3/2018 Time: 9:11 AM
Surface Coordinates: 532' FNL & 445' FWL
Bottom Hole Coordinates:
Ground Elevation: 2520.00ft
K.B. Elevation: 2532.00ft
Logged Interval: 4200.00ft To: 5500.00ft
Total Depth: 5254.00ft
Formation: Mississippian
Drilling Fluid Type: Chemical Mud

OPERATOR

Company: Vincent Oil Corporation
Address: 200 W Douglas Ave
Ste 725
Wichita, KS 67202
Contact Geologist: Dick Jordan
Contact Phone Nbr: 316.262.3573
Well Name: Hitz #3-35
Location: 532' FNL 445' FWL 35-28S-23W
API: 15-057-21000
Pool: Development
State: KS
Field: Sodville North
Country: USA

CONTRACTOR

Contractor: Duke Drilling Co., Inc.
Rig #: 1
Rig Type: Mud Rotary
Spud Date: 7/24/2018 Time: 7:30 PM
TD Date: 8/3/2018 Time: 9:11 AM
Rig Release: 8/4/2018 Time: 12:15 PM

LOGGED BY

Company: Vincent Oil Corp.
Address:
Phone Nbr: 316.262.3573
Logged By: Geologist
Name: Tom Dudgeon

SURFACE CO-ORDINATES

Well Type: Vertical

Well Type: Vertical
 Longitude: -99.8117996
 Latitude: 37.5703459
 N/S Co-ord: 532' FNL
 E/W Co-ord: 445' FWL

ELEVATIONS

K.B. Elevation: 2532.00ft Ground Elevation: 2520.00ft
 K.B. to Ground: 12.00ft

TOTAL DEPTH

Measurement Type:	Measurement Depth:	TVD:
RTD	5254.00	5255.00
LTD	5255.00	5255.00

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	7/29/2018	3792.00ft	5254.00ft

OPEN HOLE LOGS

Logging Company: ELI Wireline
 Logging Engineer: Jason Cappellucci
 Truck #: 3802
 Logging Date: 8/3/2018 Time Spent: 5
 # Logs Run: 4 # Logs Run Successful: 4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5255.00ft	2.00		1
Density/Neutron	4200.00ft	5255.00ft	2.00		1
Micro	4200.00ft	5255.00ft	3.00		2
Sonic	0.00ft	5255.00ft	3.00		2

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
7/29/2018	0.00ft	5255.00ft	Open Hole Logs Ran Successfully

CASING SUMMARY

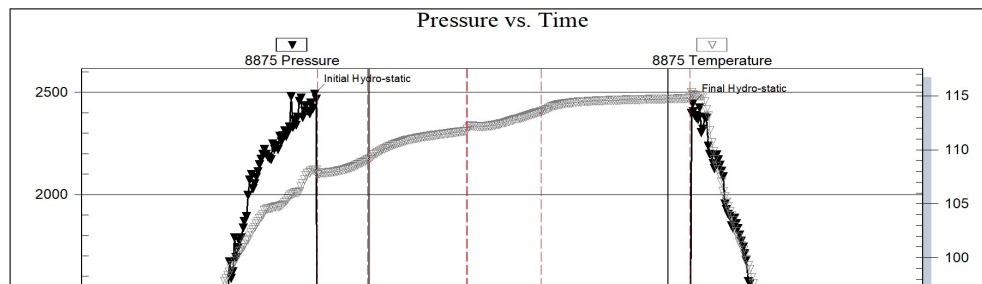
	Surface	Intermediate	Main		
Bit Size	12.25 in		7.88 in		
Hole Size	12.25 in		7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	685 ft	23#	16	7/25/2018 8:00 PM
Int Casing					
Prod Casing					

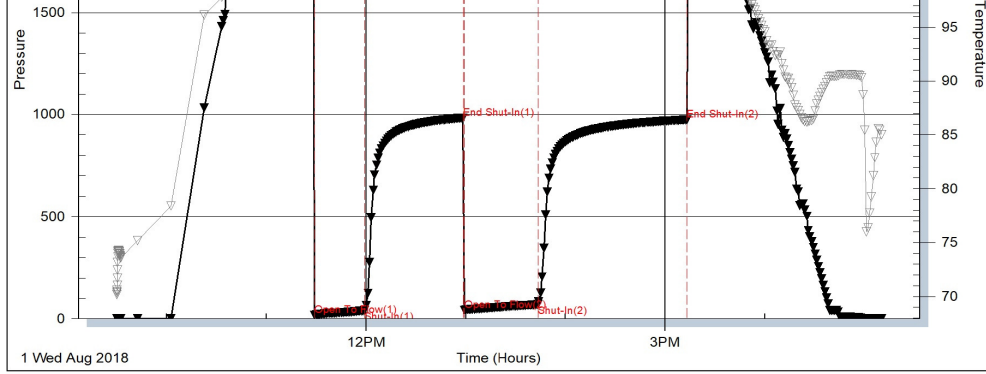
CASING SEQUENCE

Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	685.00 ft

DST #1

Serial #: 8875 Inside Vincent Oil Corporation Hitz #3-35 DST Test Number: 1





Trilobite Testing, Inc

Ref. No: 63994

Printed: 2018.08.06 @ 10:29:18

DST #2

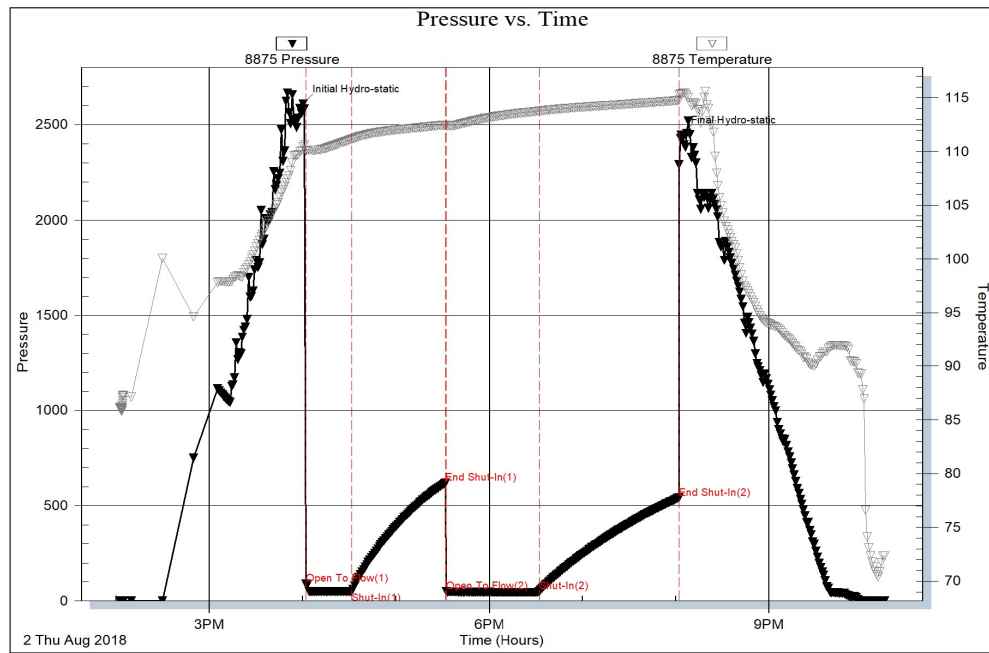
Serial #: 8875

Inside

Vincent Oil Corporation

Hitz #3-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63995

Printed: 2018.08.06 @ 10:28:53

DST #3

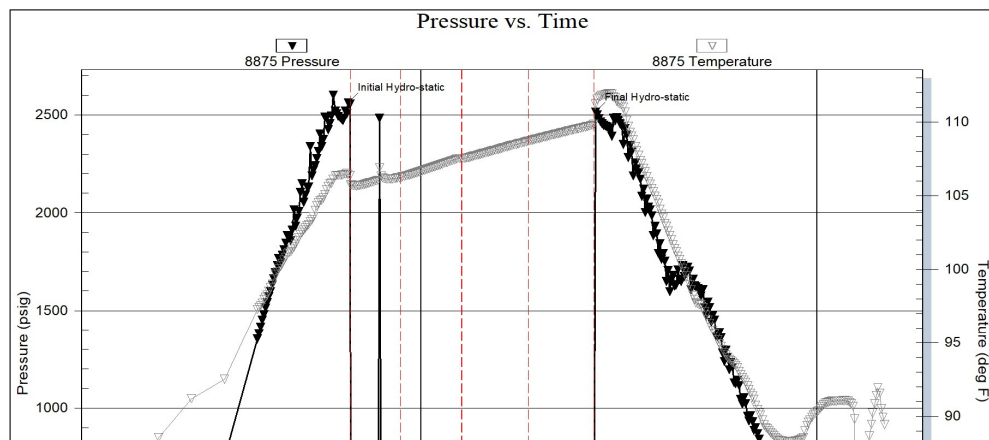
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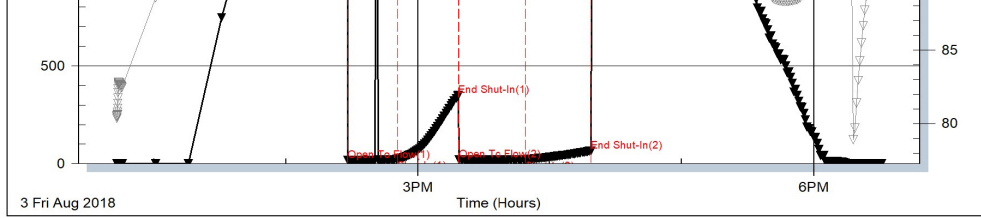
Inside

Vincent Oil Corporation

Hitz #3-35

DST Test Number: 3





TriLOBITE Testing, Inc

Ref. No: 63996

Printed: 2018.08.06 @ 10:28:30

NOTES

Rock descriptions based on Dunhams classification

- MS- Mudstone-less than 10% Grains
- WS- Wackestone-more than 10% Grains
- PS- Packstone-Grain Supported
- GS-Grainstone-Lacks Mud
- BS-Boundstone

REFERENCE WELLS

- A- Vincent Oil Corp. Keough #1-34 1243' FNL & 1414' FEL
- B- Vincent Oil Corp. Hitz #2-35 363' FNL & 2337' FWL

Pipe Strap was 1.6' Short to board @ 4688' -- No correction was made

- Bit #1 12.25"
- Bit #2 7.875" HF-21 Ser. # 1581884 HOB 82.5 @ 4688'
- Bit Trip @ 4688' for Bit #3
- Bit #3 7.875" HE-29 Ser. # 1577438 HOB 34.75 @ 5254'









Cement- @ 688', circulated to condition wellbore prior to running surface casing. Ran 16 joints of new 8.6250", 23 # surface casing, set at 685' and cemented with 125 sx MDC (2% Gel, 3% CC & ¼# Cel-Flake /sx) and 150 sx Common (4% Gel, 3% CC & ¼# Cel-Flake /sx), plug down at 12:00 PM 7/25/2018. Cement did circulate to surface.

@ 5255', Tripped in wellbore with plugging stands, loaded wellbore with heavy mud & set cement plugs through drill pipe as follows: 50 sx plug at 1550', 50 sx plug at 720' and 20 sx plug at 60' to surface. Plugged the rathole with 30 sx and plugged the mousehole with 20 sx. Plug down at 10:15 AM 8/4/2018. Used a total of 170 sx 60 / 40 POZ (4% Gel). Cleared the pits and released the rig at 12:15 PM 8/4/2018.

STRAIGHT HOLE SURVEY

Degree	Depth
3/4°	688'
1°	1678'
1°	2698'
1/2°	4688'
3/4°	5053'

ROCK TYPES

	Coal		Lmst fw<7		Shgy		Shcol
	Dolsec		Lmst fw>7		Shblk		Cht vari

ACCESSORIES

MINERAL

- Carbonaceous Flakes
- ▲ Chert, dark
- ∩ Glauconite
- Heavy, dark minerals
- × Mineral Crystals

FOSSIL

- ∩ Bioclastic or Fragmental
- Crinoids
- ∩ Foraminifera
- F Fossils < 20%
- Oolite

STRINGER

- ▨ Dolomite

TEXTURE

- C Chalky
- CX Cryptocrystalline
- e Earthy
- FX Finexin

- P Pyrite
- Sandy
- Silty
- ∕ Euhed rhombs of dol or
- △ Chert White
- ⊗ Bioclast Fragment
- Oolites

OTHER SYMBOLS

POROSITY TYPE

- x Intercrystalline
- φ Interoolitic
- V Vuggy
- P Pinpoint
- ∩ Moldic
- O Organic
- F Fracture
- e Earthy
- Fenestral

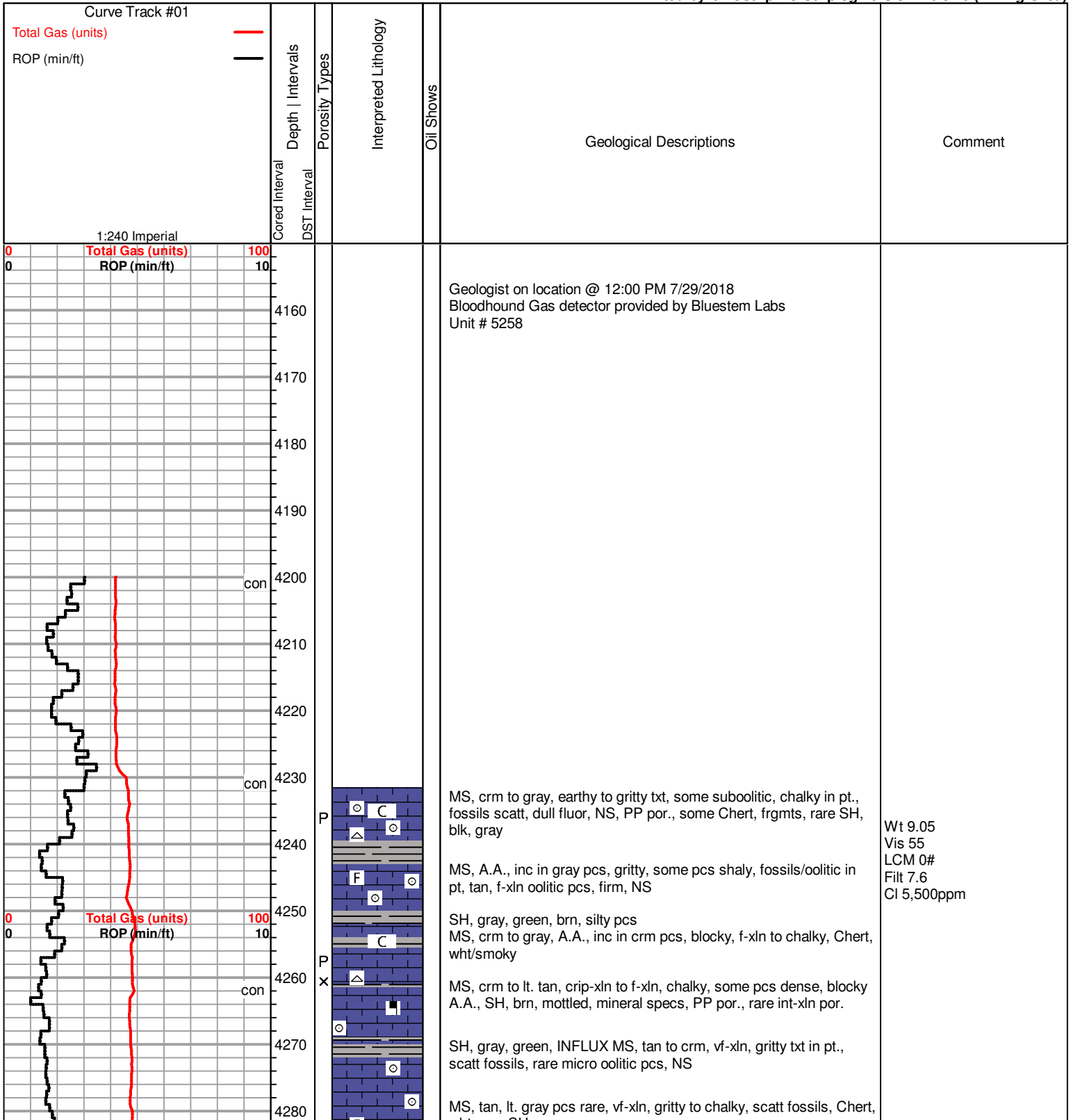
OIL SHOWS

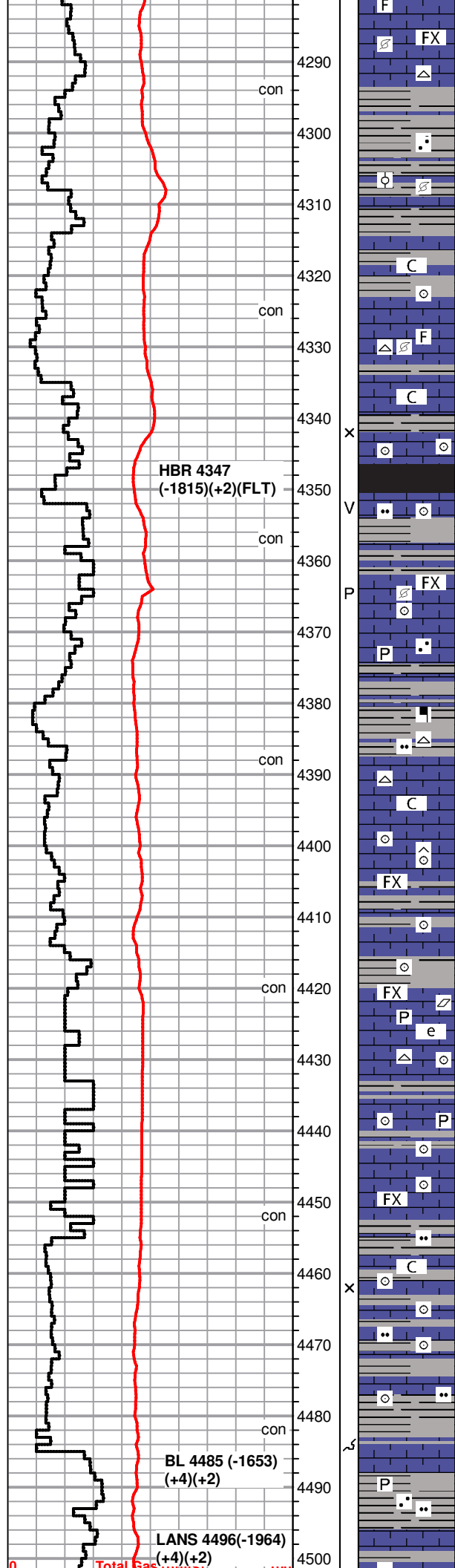
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





wht, rare SH, gray

MS, tan to crm, A.A., some pcs mottled, rare scatt Chert frgmts, rare SH, blk to gray, green

Inc in SH, blk, dk. gray, gray, silty pcs, scatt Chert, wht, MS, scatt, tan, cr, mottled to silty pcs, some shaly in pt., NS

Influx SH, blk, dk. gray/ brn-ish gray, gassy pcs scatt MS, green, crm, oolitic to sandy/silty pcs, friable, NS

SH, blk to dk. gray
MS, tan to crm, some mottled, vf-xln to chalky pcs, scatt fossils, NS

fresh SH, blk, to brn-ish gray
Influx MS, crm to gray, chalky to dense, fossilif. pcs, rare Chert, wht, NS

SH, blk, brn, slity in pt
MS-WS, crm to tan, gray/brn, f-xln to chalky, m-gr oolitic to suboolitic pcs, rare micro-oolitic, mottled pcs rare, NS, int-xln por.

Lesser SH, blk, to grayish brn, silty in pt, rare gas bubbles inc. in MS, gray to crm, mottles, some vf-xln, mineral specs, NS, rare vuggy por.

scatt SH, grays, blk, pyrite layers, MS, crm to gray, mottled to f-xln, fossils, brn blocky pcs, dense, NS, rare PP por.

MS, crn to tan, lt. gray, gritty to f-xln, mottled pcs, some sandy, dense to chalky, NS
SH, gray, green, pyrite

SH, blk, gray, pyrite
MS, crm to lt. gray, f-xln, fossils/minerals, gritty pcs, dense to f-xln, Chert, tan

WS-MS, crm, tan, vf-xln to crip-xln, dense to friable pcs, sub oolitic in pt. some chalky, Chert, wht, SH, blk, green

MS-WS, crm to tan, f-xlnk, chalky, fossil frgmts, Chert, wht(rare), some SH, grays

SH, gray, rare blk
MS-WS, offwht/crm to gray, gritty to chalky, some pcs vf-xln, dense, fossilif. in pt., NS

some /SH, gray, scatt blk, MS, gray to crm, f-xln, earthy in pt., sub oolitic, mineral specs/pyrite, scatt calcite rhombs, mottled pcs, Chert, wht, NS

WS-MS, gray to brn, vf-xln, crip-xln, dense, oolitic(m-gr) to sub oolitic, fossils, SH, grays, green, striated

MS-WS, crm to gray, chalky to oolitic/fossilif. A.A., sandy to silty in pt., SH, gray, pyrite

MS, tan to lt. gray, f-xln, firm, chalky pcs, soft, fossils scatt, NS dull fluor, scatt SH, lt. gray

SH, blk to gray
MS, crm to off wht, f-xln to gritty txt, chalky pcs scatt, some fossils, rare sub oolitic pcs, dull fluor NS, int-xln por.

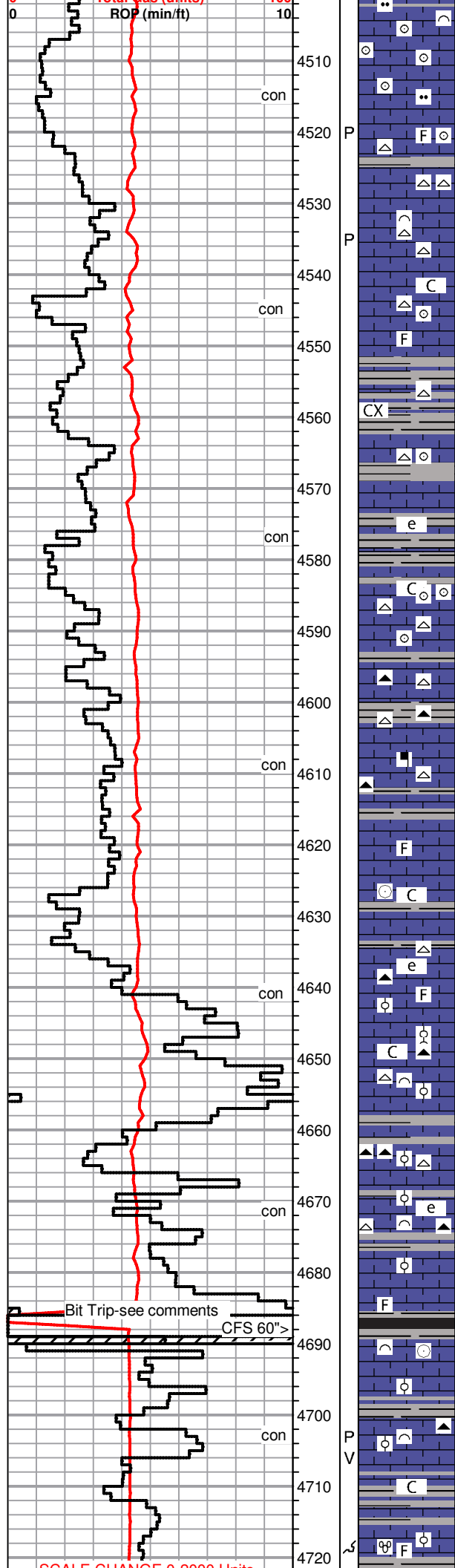
MS-WS, crm, vf-xln, gritty/micro oolitic, firm, NS, some SH, green, grays

SH, grays, green
MS, crm to gray, f-xln, hard to firm, fossils, oolitic to gritty pcs, NS, rare pcs chalky, rare moldic por.

MS-WS, brn/gray to crm, f-xln, frim/hard, scatt gritty pcs, fossils common, arg. in pt., NS
SH, gray, green, pyrite, striated pcs

SH, grays, gritty/silty pcs, MS, crm, lt. gray, vf-xln to gritty txt, scatt

Geolograph not registering on computer



Inc in MS, crm to lt. gray, vf-xln. gritty/sugary txt, firm, friable, scatt oolitic pcs,

INFLUX MS, crm to tan, lt. gray, chalky matrix in pt, firm to soft, fossils common, frmngts in soft mtrx, NS, scatt PP por.

MS, crm to lt. tan, vf-xln, gritty txt, dense, fossils, NS, rare PP por. Chert, wht, tan

MS-WS, crm to gray, brn, f-xln, becoming chalky, dense to firm pcs, fossilif., Chert, wht, fossils, NS
SH, grays, silty

MS-WS, crm to brn, rare gray pcs, vf to crip-xln, dense to friable pcs., some gritty, sli. chalky mtrx, fossilif., Chert, tan
SH, gray to brn

MS-WS, A.A., inc in tan/crm pcs, soft, chalky, Chert, wht, fossils, NS, scatt SH, blk to gray

MS, crm to tan, f-xln to earthy/chalky pcs, gritty to fossilif in chalky mtrx, NS, SH, grays, brn/yellow striated pcs

scatt SH, grays
MS-WS, crm, brn, grays, f-xln, chalky, gritty to m-gr oolitic, friable to hard, some pcs mottled, NS, Chert, wht, fossils

MS-WS, gray to tan, f-xln, gritty txt in pt, some pcs shaly, fossilif common, Chert, tan wht
some SH, brn, gray

MS, crm to gray, mostly A.A., hard, dense, minerals, fossils, Chert, blk, wht, fossils
SH, blk, gray

SH, scatt gray to blk pcs
MS, gray to crm, chalky to gritty txt, soft to hard pcs, rare fossils, NS

MS, crm to lt. gray, f-xln to gritty txt, chalky txt in pcs, hard to soft, fossil frmngts(crinoids), NS, dull fluor

MS, crm to gray, girty, most f-xln to earthy, fossils, scatt Chert, wht, blk
SH, grays

MS, crm to brn, vf-xln to massive txt, dense to chalky/soft pcs, fossils, dull fluor, NS, Chert, brn, wht fossils

SH, gray, blocky
MS, brn to crm, A.A., Chert, blk, wht, brn, fossils

MS, crm, vf-xln, earthy, firm, gritty to scatt fossils, NS
Chert, wht, fossils
SH, brn, green, gray

POOR SAMPLES DUE TO BIT TRIP AND STICKING DRILL
SH, gray to blk, scatt
MS, crm to tan, some gray(mottled), vf to m-xln, partly chalky, fossils, crinoids, bioclastic frmngts, Chert, tan

MS, crm to off wht, chalky, f-xln/dense to chalky txt, scatt minerals/fossils, pp to vuggy por., Chert, wht, gray, spines
SH, gray to dk. gray, rare blk pcs, carb in pt.

MS-WS, crm to gray, shaly in pt. mottled pcs, chalky, fossils, gritty pcs, some dense, scatt SH, gray to rare blk.

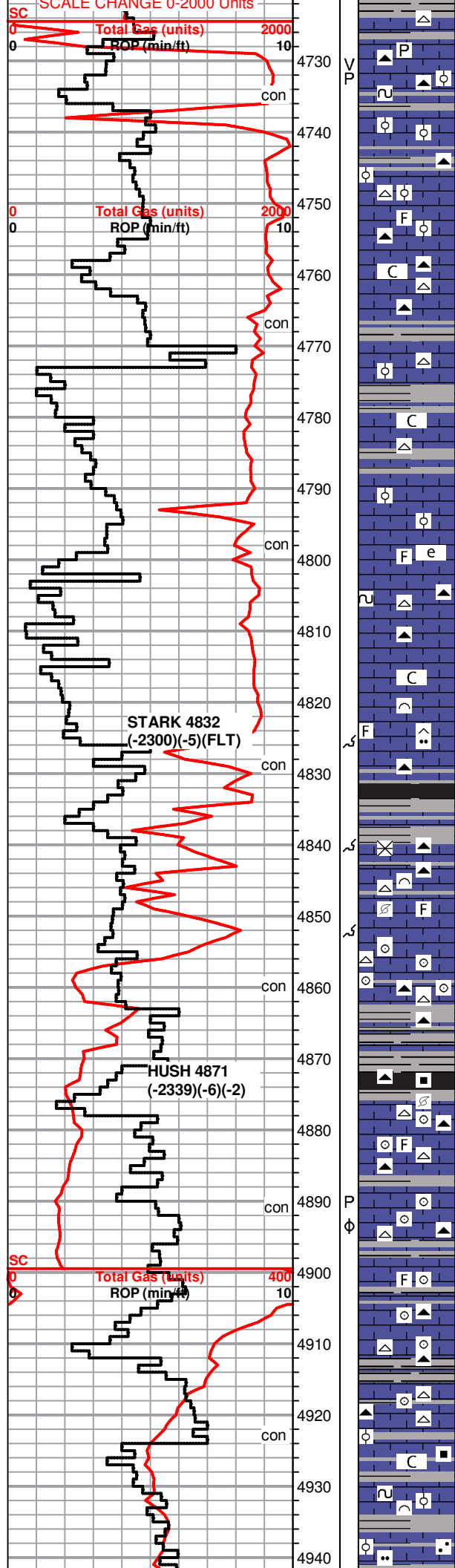
MS, crm , vf-xln, dense, rare chalky, forams, scatt fossil frmngts, forams, scatt bright spotty flour, moldic por.

Mud @ 4688'
Vis 66
Wt 9.4
LCM 2#
Filt 9.2
CI 7,500

Bit trip @ 4686'-Stuck 21 stands out, spotted 78bbls crude, waited 5 hrs, free after 11.75 hrs Drop Survey Pipe Strap 1.6 Short

Vis 55
Wt 9.3
LCM 0#

Cleared Gas detector



Inc in fresh SH, gray to dk. gray

MS-WS, crm to brn, crip-xln, dense, fossilif. in tite calc. mtrx, some pcs sli chalky, pyrite/glauc specs, pp to vuggy por. Chert, gray, brn SH, gray, striated pcs scatt.

MS, crm to tan, vf-xln, dense, fossils, m-gr oolitic, some gray oods in chalky mtrx, NS, Chert, wht, gray, inc in SH, fresh, grays

MS, A.A., lesser oolitic pcs, some sub oolitic, becoming chalky, scatt fossils, some brn MS, dense, mottled, Chert, brn

MS, tan to crm, f-xln, firm friable, fossils, brn pcs appear mottled, fossils, barren to blocky, some Chert, brn, wht, fossils some SH, grays, brn

MS-WS, brn to crm, dense, chalky to soft, fossils, scatt, mottled, Chert inclusions, NS

MS, tan to crm, gray, vf-xln, chalky in pt. friable/dense looking pcs, NS
SH, grays, green

MS, crm to tan, blocky, dense, fossils, scatt chalky to friable pcs, rare earthy txt, NS, Chert, tan
scatt SH, grays

MS-WS, crm to tan, f-xln, earthy in pt. chalky pcs common, some pcs dense, gray mineral inclusions, fossils, scatt mottled pcs, NS, Chert, gray
SH, scatt gray to blk pcs

MS, crm to brn, vf-xln, massive to dense, chalky pcs rare, hard, scatt fossils, NS
SH, blk to green

MS, brn to tan, vf-xln, dense, sandy in pt. fossils scatt, moldic por. Chert, wht/gray, fossilif

MS, tan to gray, lt. brn, gritty to vf-sucrosic txt, hard, friable, some fossils, mottle pcs scatt, shaly in pt., Chert, brn
SH, lt. gray to blk, carb. sli. gassy pcs

MS-WS, brn, crm, lt. gray, f-xln, dense to friable. A.A., inc in mottled pcs, fossils, Chert, lt. gray, fossils

MS-WS, crm, some brn, most f-xln, dense, sli. chalky, suboolitic pcs scatt, some gritty, shaly brn pcs, dull fluor, NS

MS, crm to lt. tan, f-xln, gritty, micro oolitic pcs scatt, chalky mtrx, Chert, wht, gray, fossils, some SH, gray, blk, brn

SH, blk, gray, carb. pcs, rare gas bubbles, sli. limey.
MS, crm to gray, gritty to vf-xln, dense, most hard, some chalky pcs rare, fossils scatt., NS, dull fluor, Chert, wht, blk

SH, blk, dk. gray, WS-MS, crm to gray, f-xln, silty to crip-xln, dense, fossils, sub oolitic in pt., Chert, wht, blk

Lesser SH, A.A., MS-WS, crm to off wht, f-xln to chalky, oolitic to fossilif., some pcs hard/dense, A.A., most friable calcite, pp to int-oolitic por., Chert, wht, gray, brn

MS, crm to gray, shaly in pt., f-xln, dense pcs, fossil frgmts, NS, Chert, blk, tan, wht, fossils, SH, blk, grays, striated

WS-MS, crm to tan, scatt gray A.A., earthy to gritty, fossils, chalky pcs common, Chert, tan, wht
SH, dk. grays, gray

MS, crm, gray, brn, f-xln, gritty, sub oolitic pcs, hard, some shaly, A.A., scatt fossils, Chert, dk. gray, wht, fossils, SH, gray, green, rare blk(sli. carb pcs)

influx SH, gray to green, dk. gray, carb. pcs
MS, tan/crm to gray, A.A., fossils, chalky in pt., glauc specs, NS

SH, grays, striated, blocky, rare sli. sandy pcs

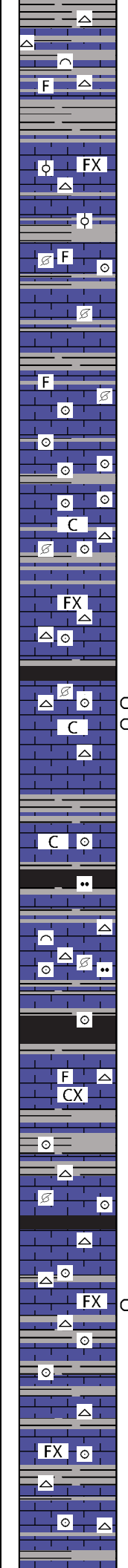
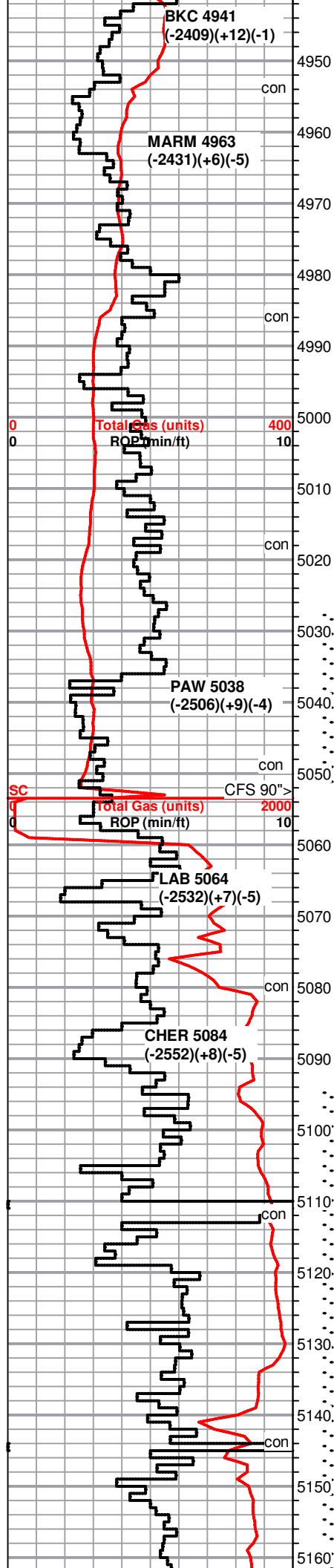
lines and reset in trap. Reading high due to 78bbbls crude in mud system

Clean out suction, run Premix

MUD @ 4796'
Vis 62
Wt 9.0
LCM 2#
Filt 6.8
CI 6,600

Shale gas muted by spotted oil in mud.

Vis 55
Wt 9.0
LCM 2#



scatt MS, crm to tan, f-xln, dense, silty pcs, fossil frgmts, NS, scatt Chert, wht

MS, crm to tan, f-xln, firm to dense, gritty/shaly pcs, fossil/sub oolitic, NS, SH, gray, blk

Lesser SH, gray to blk, MS, crm to tan, f-xln, dense, friable, firm, NS

SH, blk, influx MS, crm to tan, chalky(rare), most dense, vf-xln, rare fossils, dull fluor, NS

SH, blk to gray
MS, crm to gray, f-xln, firm to dense, some fossils, rare blocky pcs, hard, dull fluor NS

lesser MS, A.A.,
SH, gray to green, platy, sandy pcs scatt

SH, dk. gray to gray, green pcs, MS, crm, tan, gray, massive to vf-xln, chalky in pt., scatt fossils, most pcs barren, NS

lesser SH, A.A., MS, crm to tan, f-xln, sub oolitic pcs, scatt sandy, most dense, NS, scatt bri. mineral fluor

MS, brn to crm, vf-xln, earthy to waxy, dense, sli. chalky in pt., pyrite, scatt sub oolitic pcs, Chert, opaque, wht
SH, dk. gray to green

MS, crm to brn, f to vf-xln, dense, NS
Chert, wht, fossil scatt, some SH, grays

SH, dk. gray to blk, no vis gas bubbles, sli. carb, green, waxy
MS-WS, crm to tan, vf-xln earthy to chalky, dense to firm/friable pcs, fossilif/bioclastic frgmts, forams, **fair odor in bag, rare spty bri. fluor, v. rare spty stn, 5 of 12 pcs w/ milky to streaming cut, other pcs cut on break, partial stn dry, fair to poor PP/moldic por.** Chert, wht, fresh to withrd looking, fossils

MS-WS, crm, f-xln, hard to brittle, some pcs sli. chalky, scatt fossils, NS

SH, blk, gassy, gray, mottled pcs, some silty

MS, tan to gray, vf-xln to crip-xln, dense, some fossils scatt, tite mtrx, NS, rare Chert, wht

MS, crm to tan, f-xln, gritty to earthy txt, sub oolitic pcs, chalky, soft mtrx

SH, blk, gassy
MS, tan to crm, vf-xln, chalky pcs common, dense pcs scatt, fossilif in tite calc mtrx, NS, Chert, wht, fossils

some SH, blk, gray, green, MS, crm to lt. gray, vf to crip-xln, brittle, sub oolitic to fossilif, some pcs sli. chalky, Chert, wht, fossils

SH, some A.A., most pcs blk
MS-WS, crm to tan, f-xln to earthy, sli. chalky in pt., firm to hard, fossilif., Chert, wht fossils

MS-WS, crm to tan, f-xln, earthy, A.A., some gray, slity, fossils, **1 pc w/ spty bright fluor, Inst cut**, Chert, wht, frosted, fossils

SH, blk, gray, sandy, MS, brn to tan, vf-xln, dense, some fossils, sandy in pt., sub oolitic pcs scatt(dark m-gr ooids in chalky mtrx), NS

MS-WS, brn to crm, vf-xln to crip-xln, dense, fossils, some pcs barren/massive, rare chalky pcs, NS, Chert, wht
SH, blk, grays

MS-WS, mostly A.A., NS, Chert, wht to opaque
SH, blk to gray

MS, crm, f-xln to chalky, earthy pcs, rare sandy to fossilif., some

DST #1 5027-5052
Pawnee 30-60-45-90
WB bit to 5.5 inches
NBB
WB bit to 4.75 inches
NBB
Rec: 65' MCW
(10m,90w)
IH 2492#
IF 19-40#
ISIP 982#
FF 43-70#
FSIP 974#
FH 2444#
Temp 115°F
API Rw .1 @ 86°F
CI 62,000ppm

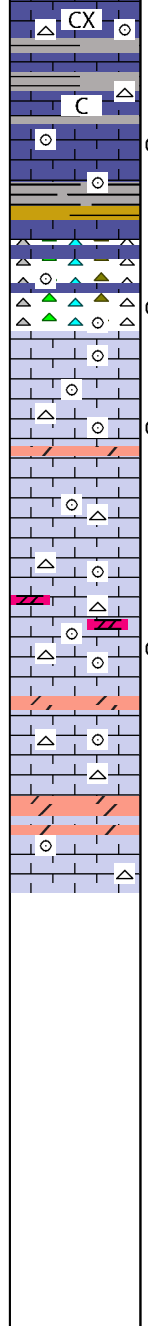
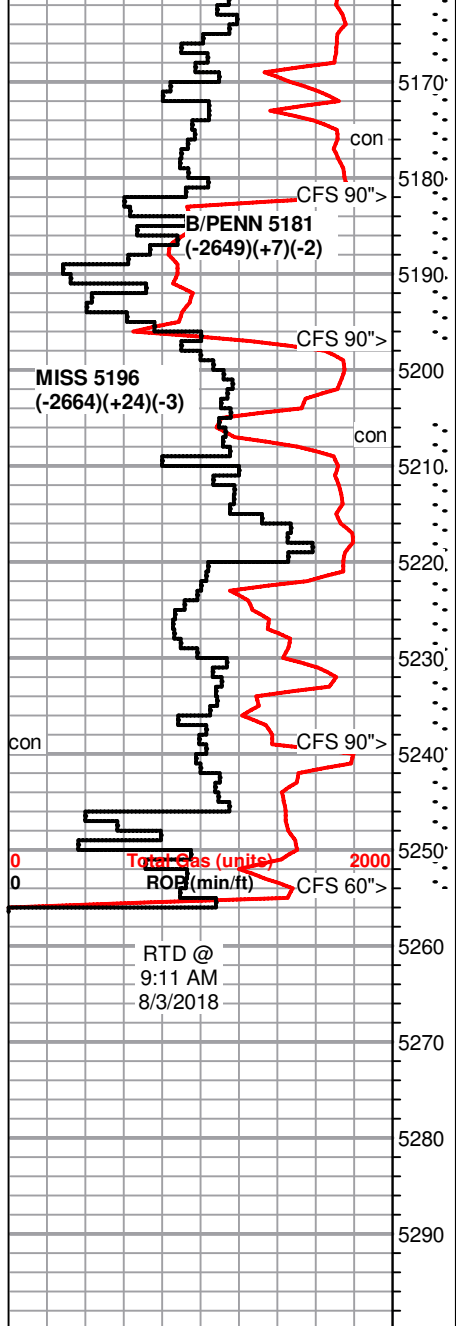
+20 UGK?, shale gas

+28 UGK?

Mud pump down
GAS SCALE CHANGE!
0-2000 Units
Line blown out and free flowing again.

MUD @ 5053'
Vis 60
Wt 9.2
LCM 2#
Filt 8.0
CI 7,800

DST #2 5094-5197
B/Penn-Cong
30-60-60-90
FB, BOB/10min
blt to 30.5 inches
NBB
SB BOB/immed,
blt to 84.25 inches
NBB
716' GIP
Rec: 40' SGCM
IH 2609#
IF 89-50#
ISIP 619#
FF 51-51#
FSIP 541#
FH 2447#
Temp 115°F



brn, dense, fossils, NS, SH, scatt blk, grays, silty in pt.

MS-WS, crm, brn, tan, f-xln to crip-xln, dense to chalky, scatt sandy pcs, fossils, Chert, opaque

MS-WS, crm to brn, f-xln to chalky, fossils, scatt pyrite, **spty strn on few pcs, spty bright fluor on 5% of samples, slow milky cut from few selected pcs, fair to good odor in bag, SH, blk, gray, sea green, rare sandy pcs, co-gr qtz gr's, NS**

Chert, varicolored, orange, sea green, white, some pcs blocky, **spty bright fluor, inst. streaming cut, scatt spotty strn, dead strn in vugs, vuggy to pp por.,**

WS-PS, off wht, f-xln to sli. chalky, sub oolitic/fossils, dull fluor NS

WS-PS, crm to brn, off wht, f-xn, sli. chalky, fossilif/m-gr oolitic, rare Dolo, brn to gray, vf-xln, **v. faint spotty bright fluor on 1 pc, most dull mineral fluor, v. faint yellow ring cut, Chert, wht**

PS-WS, off wht to crm, f to m-xln, hard, fossilif/oolitic, some Chert, wht, brn, rare Dolo, crm, vf-sucrosic, firm to brittle, dull min. fluor, limey in pt., NS

WS-PS, off wht to crm, A.A., oolitic to fossilif., Chert, wht rare Dolo, brn to gray, vf to f-suc txt, firm to brittle, **V. faint odor in bag, dull fluor, NS**

influx SH, blk to gray, WS-PS, crm to off wht, A.A., NS, Chert, wht, fossils, rare Dolo, gray to brn, firm to hard, vf-suc., **v. spty bright flour(1 pc), no cut, v. faint odor in bag**

PS-WS, crm to off wht, f-xln, oolitic to fossilif., dull mineral fluor, rare Dolo, crm to tan, vf-suc txt, limey, dull fluor, **rare faint spoty bri. fluor, light yellow ring cut, very faint odor in bag**

WS-PS, of wht to crm, hard to firm, fossilif/oolitic, dull fluor, NS

MUD @ 5182'
Vis 54
Wt 9.25
LCM 2#
Filt 8.8
CI 8,800

+50 UGK

+40 UGK

Vis 55
Wt 9.0
LCM 2#

DST #3 5205-5254
Miississippian
20-30-30-30
WB blt to 1.5 inches,
dead @ 8 min.
Flushed tool, NB
NBB
NB
NBB
Rec: 2' Mud
IH 2562#
IF 18-24#
ISIP 350#
FF 21-22#
FSIP 67#
FH 2514#
Temp 111°F

MUD @ 5220'
Vis 55
Wt 8.8
LCM 2#

MUD @ 5239'
Vis 49
Wt 9.1
LCM 2#
Filt 8.8
CI 8,800