

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	KEOUGH 8-34
Doc ID	1381884

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 8-34
Doc ID	1381884

Tops

Name	Top	Datum
Heebner Shale	4328	(-1822)
Brown Limestone	4465	(-1959)
Lansing	4480	(-1974)
Stark Shale	4804	(-2298)
Pawnee	5021	(-2515)
Cherokee Shale	5064	(-2558)
Base Penn Limestone	5164	(-2658)
Morrow Sand	5174	(-2668)
Mississippian	5197	(-2691)
RTD	5335	(-2829)
LTD	5338	(-2832)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 8-34
Doc ID	1381884

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
4	5230	5236			
4	5219	5226			
4	5200	5214			Ran tubing & packer and treated all perms with 2500 gal 15% MCA with perf balls. SDFN
					FL @1000', rigged up to swab, 1st hr 15 bbls wtr, 2nd hr 10 bbl wtr
					Well KO flowing, then died, swab 2 hrs, then well KO & flowed.
					7th hr well flowed 26 bbls (90% Oil), SWI, SDFN

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	KEOUGH 8-34
Doc ID	1381884

Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugType	BridgePlugSet At	Material Record
					SITP 600#, SICP450#, rigged up kill truck & killed with KCL wtr, ran DH equip with Rods & tubing, SI WO surface equip.
					Set surface equipment and turned well to production I.P: 63 BOPD

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6722

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	9-29-17 1-30-17	Sec.	28 34	Twp.	28	Range	23	County	Ford	State	KS	On Location	11:00 AM 9:00 PM	Finish	5
Lease	Keough		Well No.	8-34		Location									
Contractor	Duke 1							Owner							
Type Job	Surface/Conductor							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 / 17 1/2		T.D.	300		Charge To									
Csg.	8 5/8 / 13 3/8		Depth	299		VINCENT									
Tbg. Size			Depth	Street											
Tool			Depth	City State											
Cement Left in Csg.	20'		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line			Displace	43		Cement Amount Ordered 250 SK COMMON 3%									
EQUIPMENT													CC 2% Gel 1/4 C.F.		
Pumptrk	No.					Common 250									
Bulktrk	No.					Poz. Mix									
Bulktrk	No.					Gel. 5									
Pickup	No.					Calcium 9									
JOB SERVICES & REMARKS													Hulls		
Rat Hole													Salt		
Mouse Hole													Flowseal 62-50		
Centralizers													Kol-Seal		
Baskets													Mud CLR 48		
D/V or Port Collar	9-29-17												CFL-117 or CD110 CAF 38		
Incomplete Job on location @ 11:00 AM													Sand		
could not get 8 5/8 csg past 21' left													Handling 264		
location @ 9:00 PM													Mileage 50		
9/30/17													FLOAT EQUIPMENT		
1st Ran 13 3/8 csg to 299'													Guide Shoe		
mixed 250 SK Common 3% CC 2%													Centralizer		
Gel 1/4 C-F Displaced with 43 bbl													Baskets		
H 2/6 Cement did circulate to surface													AFU Inserts		
													Float Shoe		
													Latch-Down 4 hrs @ 250.00 wait time		
													LAW 50		
													Service Supervisor		
													Pumptrk Charge Conductor		
													Mileage 100		
													Tax		
													Discount		
													Total Charge		
X Signature															

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6723

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	10-1-17	Sec.	34	Twp.	28	Range	23	County	Ford	State	Ks	On Location	9:30	Finish	11:30
Lease	Krough		Well No.	8-34		Location									
Contractor	Duka 1					Owner									
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.	648											
Csg.	8 5/8		Depth	648											
Tbg. Size			Depth												
Tool			Depth												
Cement Left in Csg.	20'		Shoe Joint												
Meas Line			Displace	40 bbls											
EQUIPMENT				150 sx Common 3% CC 2% Gel 1/4 C.F.											
Pumptrk	8	No.		Common 150											
Bulktrk	7	No.		Roz Mix MDC 150											
Bulktrk		No.		Gel. 12											
Pickup		No.		Calcium 12											
JOB SERVICES & REMARKS				Hulls											
Rat Hole				Salt											
Mouse Hole				Flowseal 66.25											
Centralizers				Kol-Seal											
Baskets				Mud CLR 48											
D/V or Port Collar				CFL-117 or CD110 CAF 38											
Pron 8 5/8 csg broke circulation with rig pumped 150 sx MDC 3% cc 2% Gel 1/4 CF 150 sx Common 3% cc 2% Gel 1/4 C.F.				Sand											
Plug Displaced with 40 bbls 1 1/2 Cement + 210 circulation				Handling 224											
				Mileage 50											
				FLOAT EQUIPMENT											
				Guide Shoe											
				Centralizer											
				Baskets											
				AFU Inserts											
				Float Shoe 8 7/8 Ballin Plug											
				Latch Down 8 7/8 Wooden Plug											
				LMV 50											
				Service Supervision											
				Pumptrk Charge Surface											
				Mileage 100											
												Tax			
												Discount			
												Total Charge			
X Signature															

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6750

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
10-12-17	34	28	23	Ford	KS	2:45 PM	5:00 PM
Lease <u>Keough</u>		Well No. <u>8-34</u>		Location			
Contractor <u>Duke 1</u>				Owner			
Type Job <u>Long string</u>				To Quality Well Service, Inc.			
Hole Size <u>7 7/8</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <u>4.5 11.6</u>		T.D. <u>5335</u>		Charge To <u>Vincent</u>			
Tbg. Size		Depth <u>5334</u>		Street			
Tool		Depth		City		State	
Cement Left in Csg. <u>22"</u>		Shoe Joint <u>22.16</u>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <u>82.3</u>		Cement Amount Ordered <u>225 sx Pro C 10% Salt</u>			
EQUIPMENT				<u>5# Kolseal</u>			
Pumptrk <u>8</u> No.			Common <u>225 sx Pro C</u>				
Bulktrk <u>5</u> No.			Poz. Mix				
Bulktrk No.			Gel. <u>4</u>				
Pickup No.			Calcium				
JOB SERVICES & REMARKS				Hulls			
Rat Hole <u>30 sx</u>				Salt <u>24</u>			
Mouse Hole <u>20 sx</u>				Flowseal			
Centralizers				Kol-Seal <u>1125#</u>			
Baskets				Mud CLR 48 <u>500 Gall Mud Flush</u>			
D/V or Port Collar				CFL-117 or CD110 CAF 38 <u>cc-1 8 bbls</u>			
<u>Run 4.5 csg to 5334 broke</u>				Sand			
<u>circulation with rig circulated 1 hr</u>				Handling <u>252</u>			
<u>pumped for flush Plugged Rat & Mouse</u>				Mileage <u>50</u>			
<u>hole with 50 sx cement Mixed 175 sx</u>				FLOAT EQUIPMENT			
<u>Pro C cement washed up truck</u>				Guide Shoe <u>1 4.5</u>			
<u>released plug Displaced with 2% KCC</u>				Centralizer <u>6 4.5</u>			
<u>water with 82.3 bbls H3/8 Plug</u>				Baskets			
<u>landed @ 1200 ppi Float Held</u>				AFU Inserts <u>1 4.5</u>			
				Float Shoe			
				Latch Down <u>Rubber Plug 4.5</u>			
				<u>LMV 50</u>			
				<u>Service Supervisor</u>			
				Pumptrk Charge <u>Long string</u>			
				Mileage <u>50 x 2</u>			
						Tax	
						Discount	
						Total Charge	
Signature <u>[Signature]</u>							



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.
 200 W Douglas Ave #725 Wichita, KS 67202
 ATTN: Jim Hall

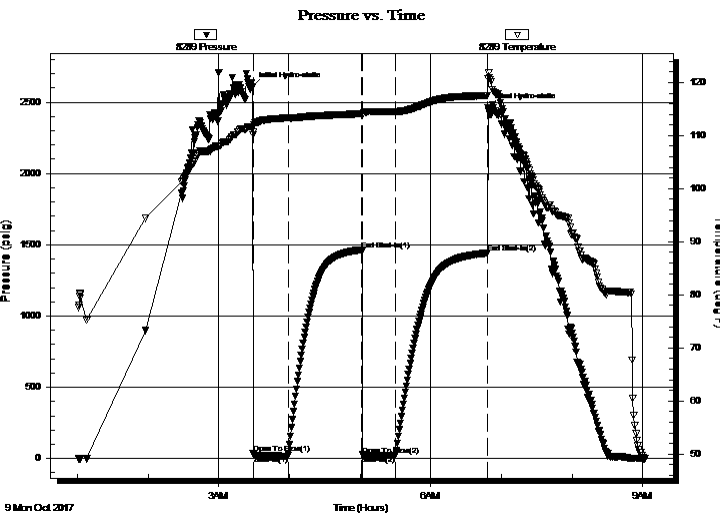
34/28/23
Keough 8-34
 Job Ticket: 59469 **DST#: 1**
 Test Start: 2017.10.09 @ 01:01:00

GENERAL INFORMATION:

Formation: **Base Penn.**
 Deviated: No Whipstock: 2506.00 ft (KB)
 Time Tool Opened: 03:29:15
 Time Test Ended: 09:01:50
 Interval: **5139.00 ft (KB) To 5162.00 ft (KB) (TVD)**
 Total Depth: 5162.00 ft (KB) (TVD)
 Hole Diameter: 7.78 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2506.00 ft (KB)
 2494.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
 Press@RunDepth: 22.10 psig @ 5159.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.10.09 End Date: 2017.10.09 Last Calib.: 1899.12.30
 Start Time: 01:01:02 End Time: 09:01:49 Time On Btm: 2017.10.09 @ 03:28:45
 Time Off Btm: 2017.10.09 @ 06:48:39

TEST COMMENT: IF: BOB 4 min., strong steady blow
 IS: No blow back
 FF: BOB ASAO, strong steady blow
 FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2605.59	111.62	Initial Hydro-static
1	35.49	110.62	Open To Flow (1)
31	22.98	113.36	Shut-In(1)
93	1464.29	114.13	End Shut-In(1)
94	25.32	113.93	Open To Flow (2)
122	22.10	114.51	Shut-In(2)
200	1441.79	117.49	End Shut-In(2)
200	2464.00	120.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy mud, 15%G, 85%M	0.42
0.00	248' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

34/28/23

200 W Douglas Ave #725 Wichita, KS 67202

Keough 8-34

Job Ticket: 59469

DST#: 1

ATTN: Jim Hall

Test Start: 2017.10.09 @ 01:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

4800 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gassy mud, 15%G, 85%M	0.421
0.00	248' GIP	0.000

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=1.42@64F=4800ppm

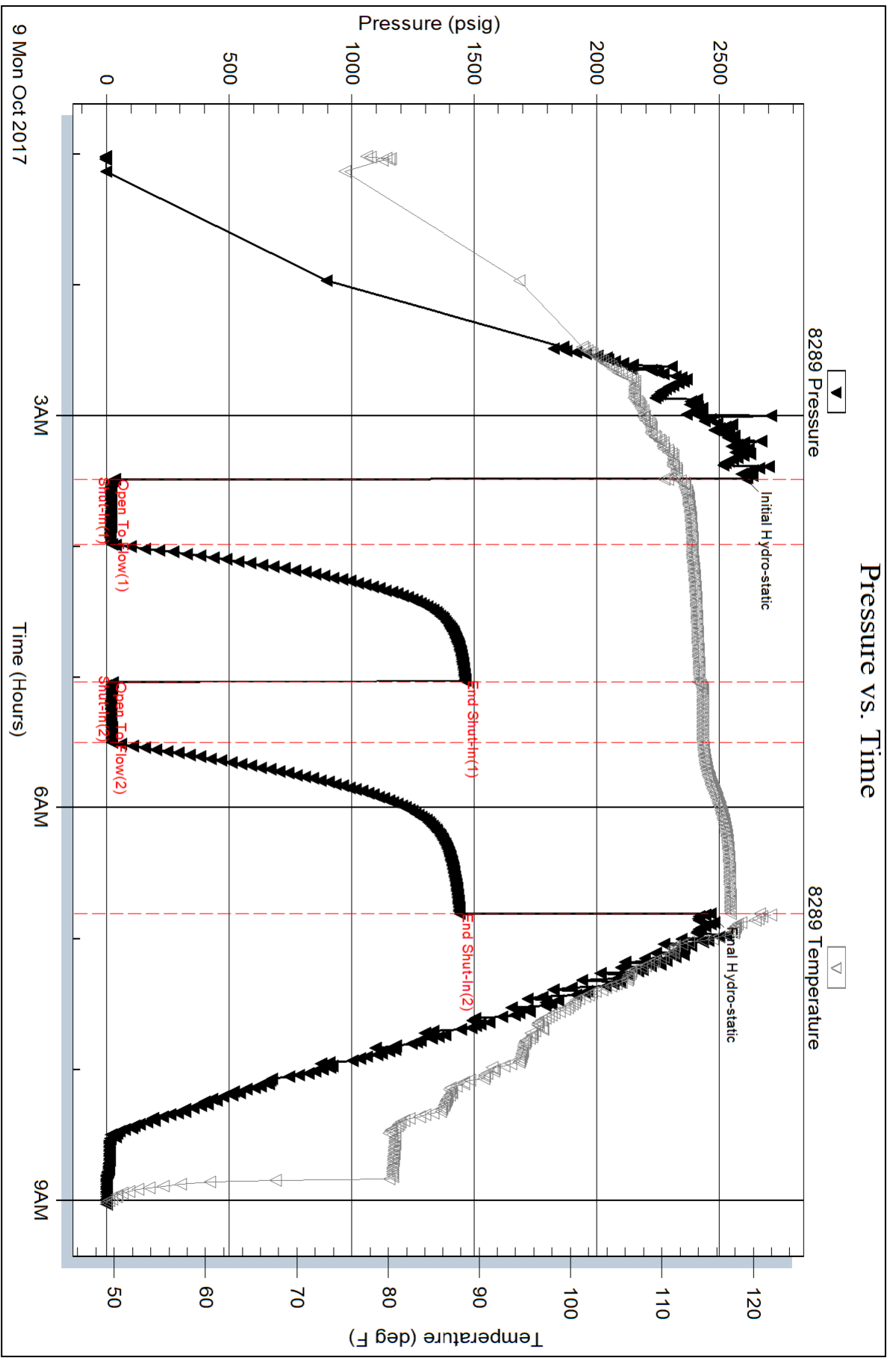
Serial #: 8289

Inside

Vincent Oil Corp.

Keough 8-34

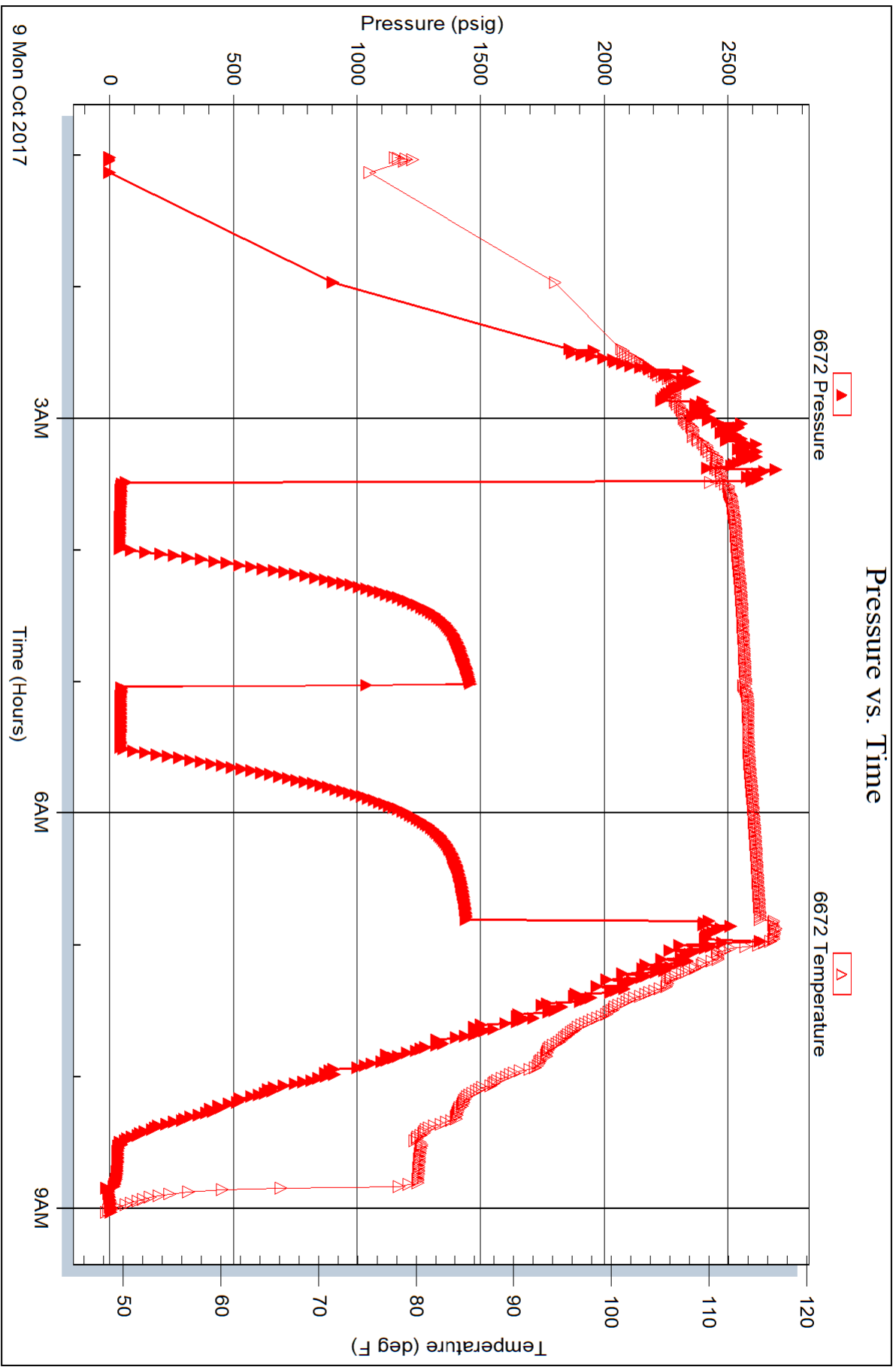
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59469

Printed: 2017.10.09 @ 09:56:07





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.
 200 W Douglas Ave #725 Wichita, KS 67202
 ATTN: Jim Hall

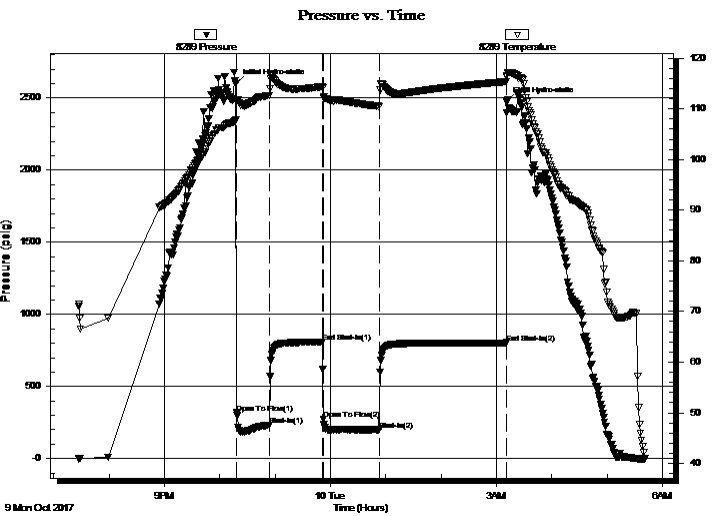
34/28/23
Keough 8-34
 Job Ticket: 59470 **DST#: 2**
 Test Start: 2017.10.09 @ 19:27:00

GENERAL INFORMATION:

Formation: **Morrow**
 Deviated: No Whipstock: 2506.00 ft (KB)
 Time Tool Opened: 22:18:35
 Time Test Ended: 05:41:04
 Interval: **5175.00 ft (KB) To 5189.00 ft (KB) (TVD)**
 Total Depth: 5189.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2506.00 ft (KB)
 2494.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
 Press@RunDepth: 198.42 psig @ 5186.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.10.09 End Date: 2017.10.10 Last Calib.: 1899.12.30
 Start Time: 19:27:02 End Time: 05:41:04 Time On Btm: 2017.10.09 @ 22:17:35
 Time Off Btm: 2017.10.10 @ 03:11:00

TEST COMMENT: IF: BOB ASAO, GTS 2 min, strong building blow
 IS: No blow back
 FF: BOB GTS ASAO, strong steady blow
 FS: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2601.28	107.78	Initial Hydro-static
1	318.02	111.39	Open To Flow (1)
37	230.81	112.57	Shut-In(1)
95	807.53	114.37	End Shut-In(1)
95	275.11	112.28	Open To Flow (2)
156	198.42	110.49	Shut-In(2)
294	804.71	115.37	End Shut-In(2)
294	2472.08	116.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	gassy mud, 5%G 95%M	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
First Gas Rate	0.38	89.00	0.38
Last Gas Rate	0.50	67.00	0.55
Max. Gas Rate	0.38	135.00	0.55



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.

34/28/23

200 W Douglas Ave #725 Wichita, KS 67202

Keough 8-34

Job Ticket: 59470

DST#: 2

ATTN: Jim Hall

Test Start: 2017.10.09 @ 19:27:00

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 2506.00 ft (KB)

Time Tool Opened: 22:18:35

Time Test Ended: 05:41:04

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 75

Interval: 5175.00 ft (KB) To 5189.00 ft (KB) (TVD)

Reference Elevations: 2506.00 ft (KB)

Total Depth: 5189.00 ft (KB) (TVD)

2494.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6672 Outside

Press@RunDepth: psig @ 5186.00 ft (KB)

Start Date: 2017.10.09

End Date: 2017.10.10

Capacity: 8000.00 psig

Start Time: 19:27:02

End Time: 05:41:19

Last Calib.: 1899.12.30

Time On Btm:

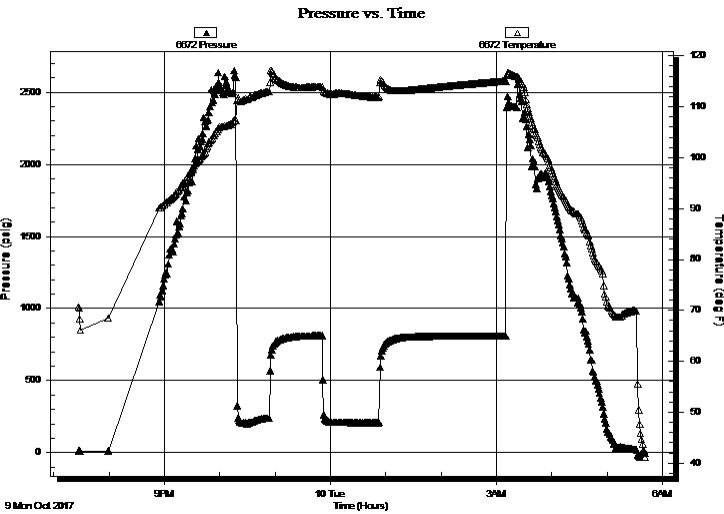
Time Off Btm:

TEST COMMENT: IF: BOB ASAO, GTS 2 min, strong building blow

IS: No blow back

FF: BOB GTS ASAO, strong steady blow

FS: No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	gassy mud, 5%G 95%M	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
First Gas Rate	0.38	89.00	0.38
Last Gas Rate	0.50	67.00	0.55
Max. Gas Rate	0.38	135.00	0.55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corp.

34/28/23

200 W Douglas Ave #725 Wichita, KS 67202

Keough 8-34

ATTN: Jim Hall

Job Ticket: 59470

DST#: 2

Test Start: 2017.10.09 @ 19:27:00

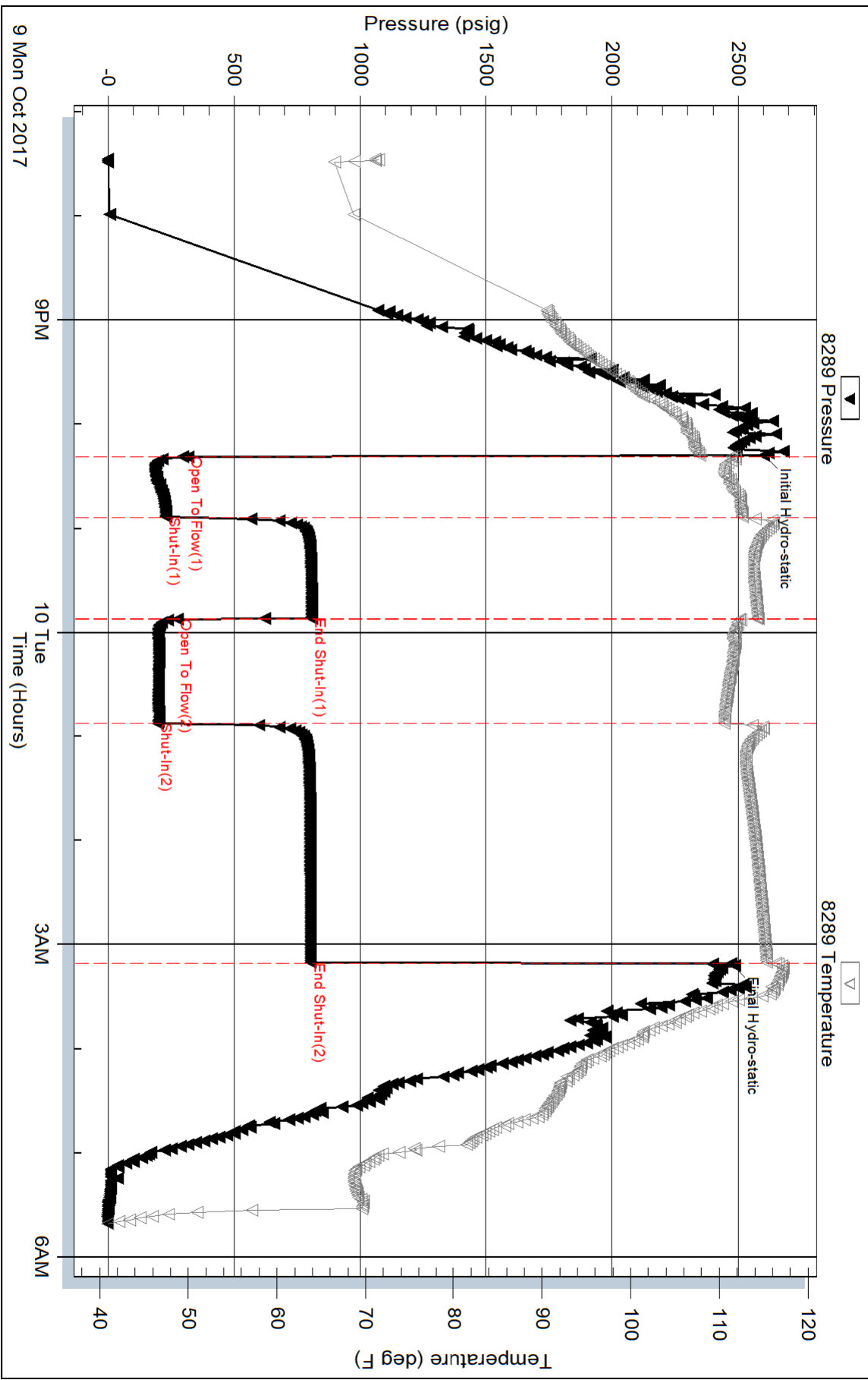
Gas Rates Information

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 (MMcf/d)
1	10	0.38	89.00	0.38
1	20	0.38	120.00	0.49
1	30	0.38	135.00	0.55
2	10	0.50	58.00	0.49
2	20	0.50	65.00	0.54
2	30	0.50	67.00	0.55
2	40	0.50	67.00	0.55
2	50	0.50	67.00	0.55
2	60	0.50	67.00	0.55

Pressure vs. Time

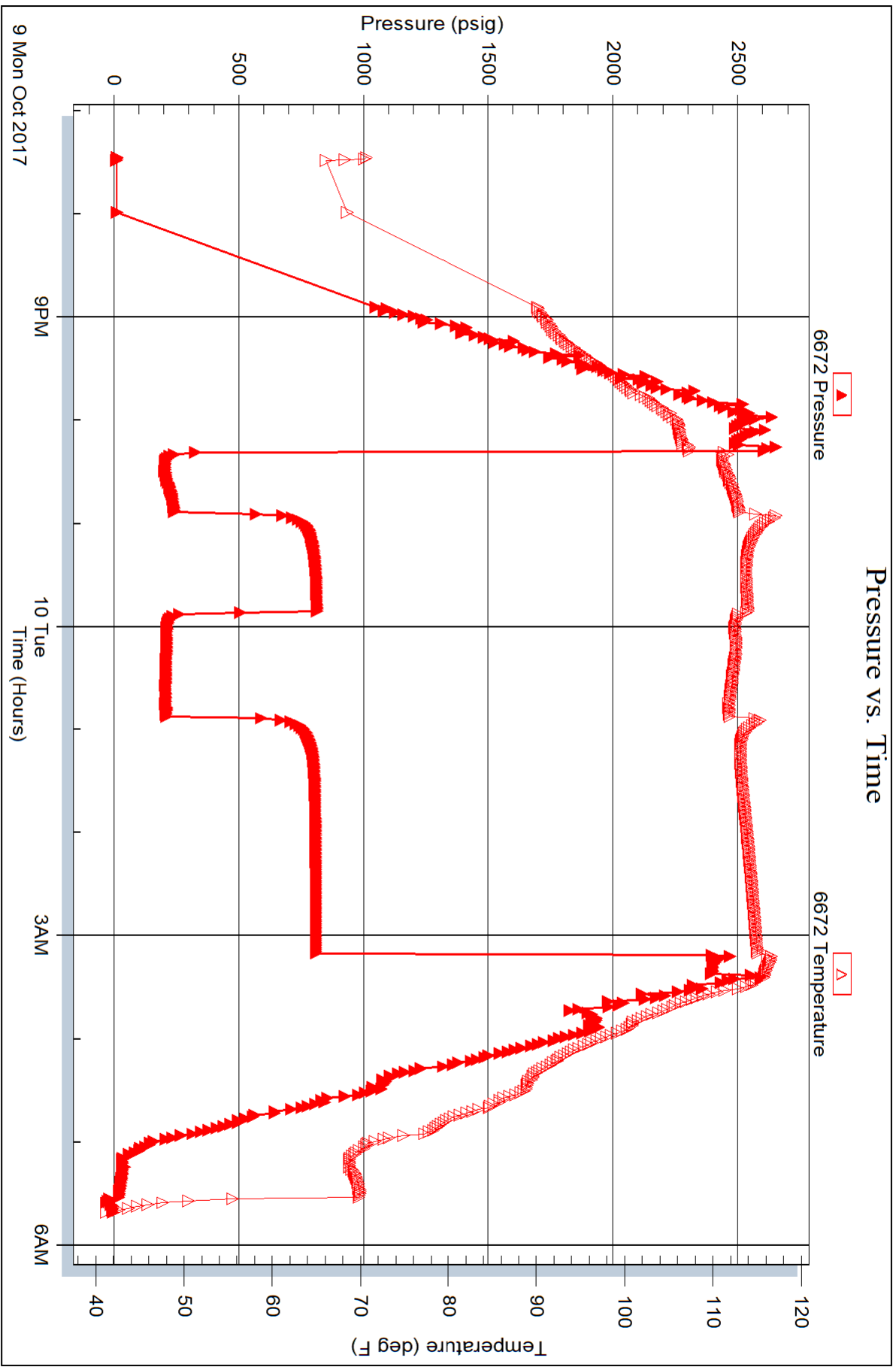


Serial #: 6672

Outside Vincent Oil Corp.

Keough 8-34

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vincent Oil Corp.
 200 W Douglas Ave #725 Wichita, KS 67202
 ATTN: Jim Hall

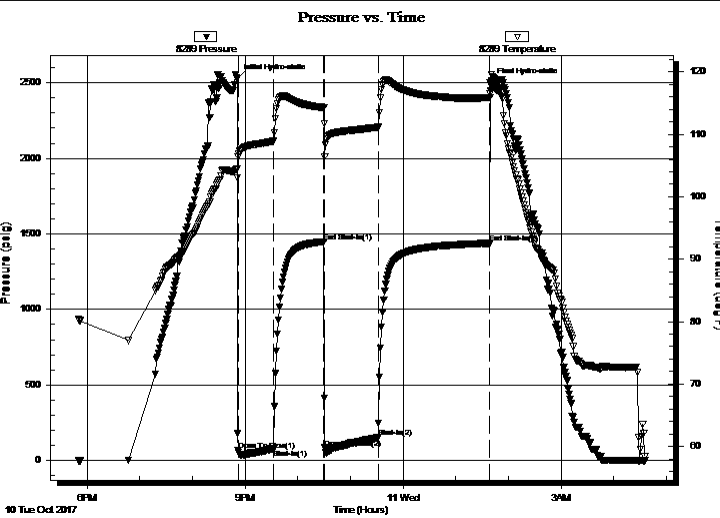
34/28/23
Keough 8-34
 Job Ticket: 59471 **DST#: 3**
 Test Start: 2017.10.10 @ 17:50:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: 2506.00 ft (KB)
 Time Tool Opened: 20:51:40
 Time Test Ended: 04:35:25
 Interval: **5199.00 ft (KB) To 5226.00 ft (KB) (TVD)**
 Total Depth: 5226.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 75
 Reference Elevations: 2506.00 ft (KB)
 2494.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8289 **Inside**
 Press@RunDepth: 154.15 psig @ 5223.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.10.10 End Date: 2017.10.11 Last Calib.: 1899.12.30
 Start Time: 17:50:02 End Time: 04:35:25 Time On Btm: 2017.10.10 @ 20:50:50
 Time Off Btm: 2017.10.11 @ 01:39:00

TEST COMMENT: IF: BOB 30 sec, GTS 20 min., strong steady blow
 IS: No blow back
 FF: BOB GTS ASAO, strong steady blow
 FS: blow back 30 sec., weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2527.92	104.47	Initial Hydro-static
1	66.50	106.37	Open To Flow (1)
41	72.53	108.88	Shut-In(1)
99	1448.95	114.29	End Shut-In(1)
101	84.30	106.46	Open To Flow (2)
161	154.15	111.14	Shut-In(2)
289	1437.59	115.86	End Shut-In(2)
289	2501.87	116.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy oily mud, 5%G,10%O,85%M	0.42
220.00	gassy oil 20%G,80%O	3.09

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (MMcf/d)
First Gas Rate	0.13	5.00	0.01
Last Gas Rate	0.13	35.00	0.02
Max. Gas Rate	0.13	35.00	0.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corp.

34/28/23

200 W Douglas Ave #725 Wichita, KS 67202

Keough 8-34

Job Ticket: 59471

DST#: 3

ATTN: Jim Hall

Test Start: 2017.10.10 @ 17:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: 9500.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gassy oily mud, 5%G,10%O,85%M	0.421
220.00	gassy oil 20%G,80%O	3.086

Total Length: 250.00 ft Total Volume: 3.507 bbl

Num Fluid Samples: 1

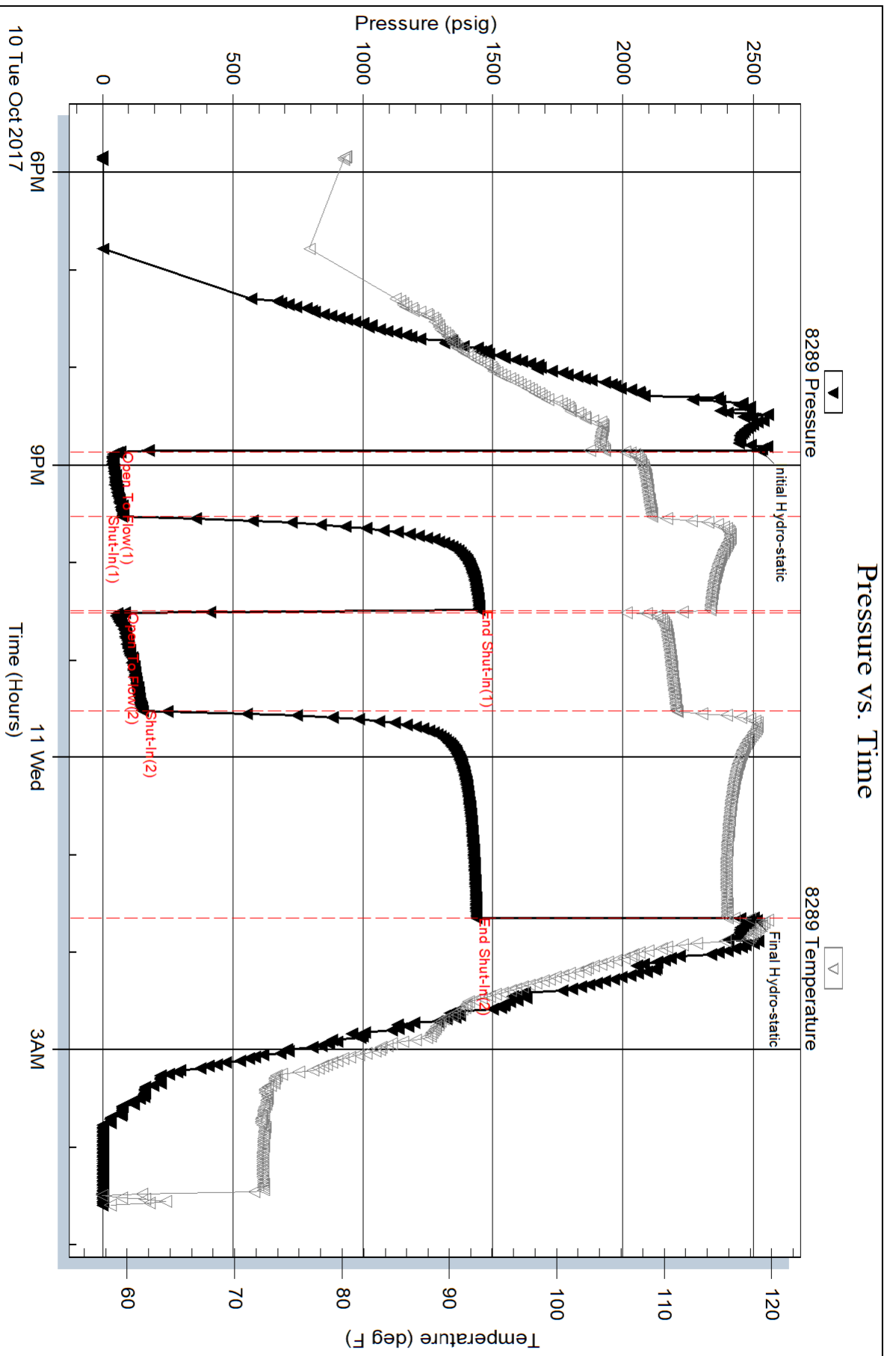
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments: API=33@70F=32

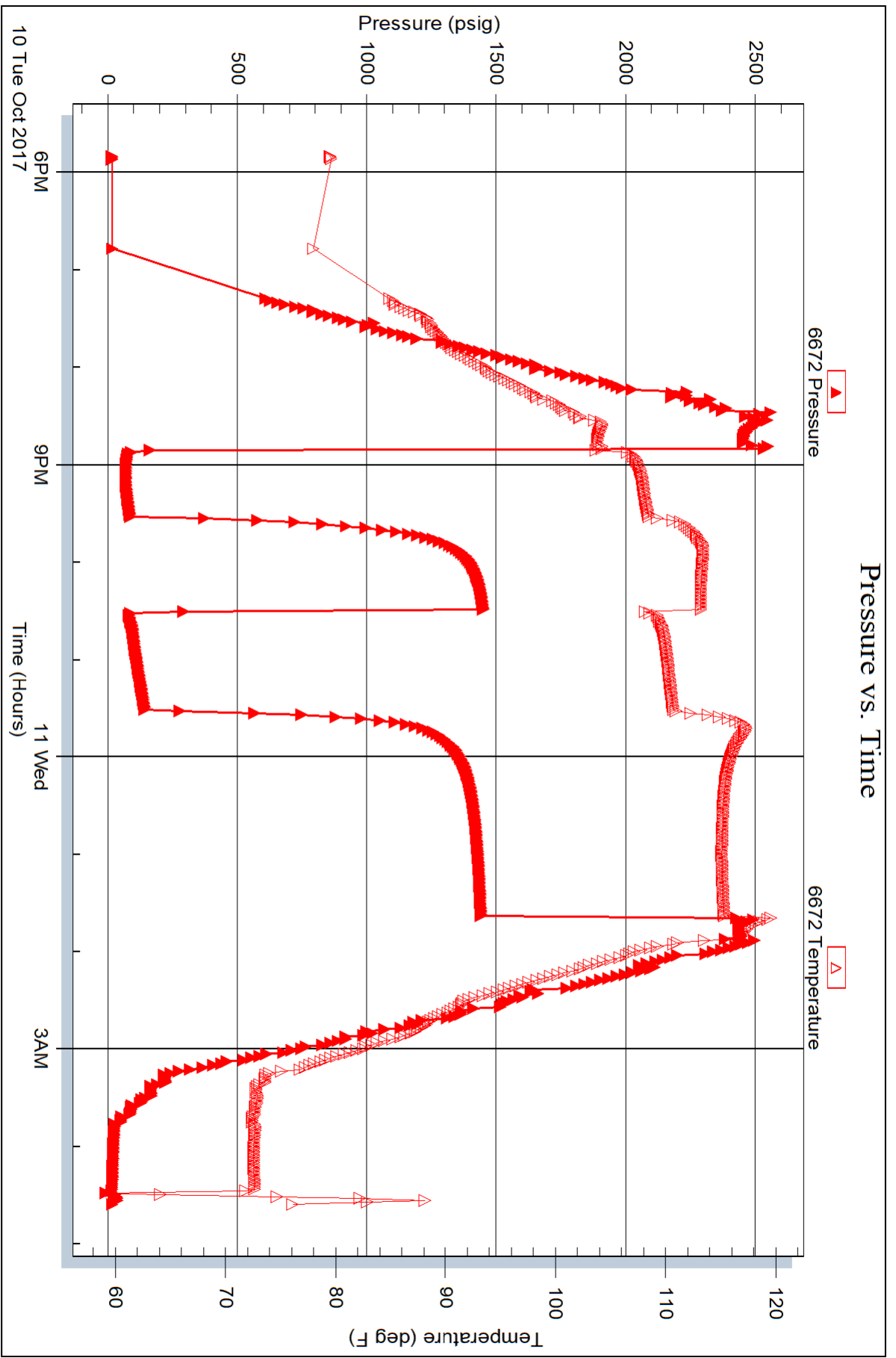


Serial #: 6672

Outside Vincent Oil Corp.

Keough 8-34

DST Test Number: 3



LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: VINCENT OIL CORP. KEOUGH #8-34 NE SW SE NE

API: 15-057-20986-00-00

Location: SEC 34, T28S, R23W, FORD CO. KANSAS

License Number: 5004

Region: Mulberry Creek

Spud Date: 9/28/17

Drilling Completed: 10/11/17

Surface Coordinates: 3,015' FSL, 865' FEL

Bottom Hole

Coordinates:

Ground Elevation (ft): 2,494'

K.B. Elevation (ft): 2,506'

Logged Interval (ft): 4,250' To: 5,335.

Total Depth (ft): 5,335'

Formation: Mississippi

Type of Drilling Fluid: NATIVE MUD TO 3,803'. CHEMICAL GEL TO RTD

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

OPERATOR

Company: VINCENT OIL CORP.

Address: 200 W. DOUGLAS AVE #725

WICHITA, KANSAS 67202-3013

OFFICE; 316-262-3573

GEOLOGIST

Name: Jame R. Hall (Well Site Supervision)

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

316-838-2574, 316-217-1223

Comments

Drilling contractor: Duke Drilling, Rig #1, Tool Pusher; Mike Godfrey.

Surface Casing: 13 3/8" set at 299' with 250sx. 8 5/8" 23# set at 648' with 300sx, cement, did circulate.

Daily Activity:

9/28/17; Move on and spud @22:00hrs.

9/29/17; 07:00 drilling 12 1/4" hole @ 589'.

9/30/17; 07:00 648' waiting on 17 1/2" bit. Drilled to 648' with 12 1/4" bit, ran 8 5/8" csg and hit bridge @ 211'. pulled 8 5/8" csg. to drill 17 1/2" hole and run 13 3/8" csg.

10/01/17; 07:00 648', drilled 17 1/2" hole to 300', ran 13 3/8" csg, set at 299', cmt with 250sx. Trip in drilled cmt and circulated to clean hole at 648'.

10/02/17; 07:00 1,225' drilling 7 7/8" hole. ran 8 5/8" csg, set at 648' with 300sx, cmt did circulate, wait on cmt 8 hrs, drilled out cmt than drilled ahead with native mud.

10/03/17; 07:00 2,590' drilling ahead with native mud.

10/04/17; 07:00 3,255' drilling ahead with native mud.

10/05/17; 07:00 3,803' drilling ahead displace native mud with chem gel @ 3,803'.

10/06/17; 07:00 4,417' drilling ahead. Cir @ 4,208' Topeka due to gas kick. No show drilled ahead.

10/07/17; 07:00 4,852' drilling.

10/08/17; 07:00 5,095 drilling. Circulated Pawnee @5,041', then made 25std short trip prior to drilling ahead.

10/09/17; 07:00 5,162' DST #1, @ 5,126 bit trip and svy, drilled to 5,162' and circulated. Condition hole trip out (pipe strap 1' deep) and commenced DST #1.

10/10/17; 07:00 drilled to 5,189 and circulate samples. Condition hole trip out and commenced DST #2.

10/11/17; 07:00 5,226' finishing DST #3, 5,216 CFS, 5,226 CFS, run DST #3 5,119' - 5,226' (27').

10/12/17; 07:00 5,335' (RTD), drilled to total depth and run open hole logs. make ready to run 4 1/2" production csg.

Deviation Surveys: 0.25 deg. @ 648', 0.50 deg. @ 2,698',
1.0 deg. @ 5,126', 0.75 deg. @ 5,335'.

Bit Record:

#1 12 1/4" DR16 out @ 648'.

#2 17 1/2" out @ 300'.

#3 7 7/8" HE-29 in @ 648' out @ 5,126' (4,478' in 132.25hrs.)

#4 7 7/8" HA-28 (RR) in @ 5,126' out @ 5,335' (109' in 12.5hrs.)

Drilling time commenced: @ 4,200'. Maximum 10' wet and dry samples commenced: @ 4,208' to RTD. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Blue Stem unit #5258. Digital Unit, commenced @ 4,200'.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 3,803', Mud Engineer: Justen Whiting (Dodge City Office).

Open Hole Testing; Trilobite Testing Chris Hagman.

Open Hole Logs: ELI Logging, Hays Kansas,

Logging Engineer: Jeff Luebbers.

DIL, CDL/CNL/PE, MEL/SON.

Sample tops are placed on this Plotted Geo. Report, with the reference wells "A" Vincent Oil Corp. Keough #1-34 SW NW NW 34-T28S-R23W, and "B" Vincent Oil Corp. Keough #7-34 NE NE NE SW 34-T28S-R23W, "C" Vincent Oil Corp. Hitz #1-35 35-T28S-R23W. E-log tops datum differences shown.

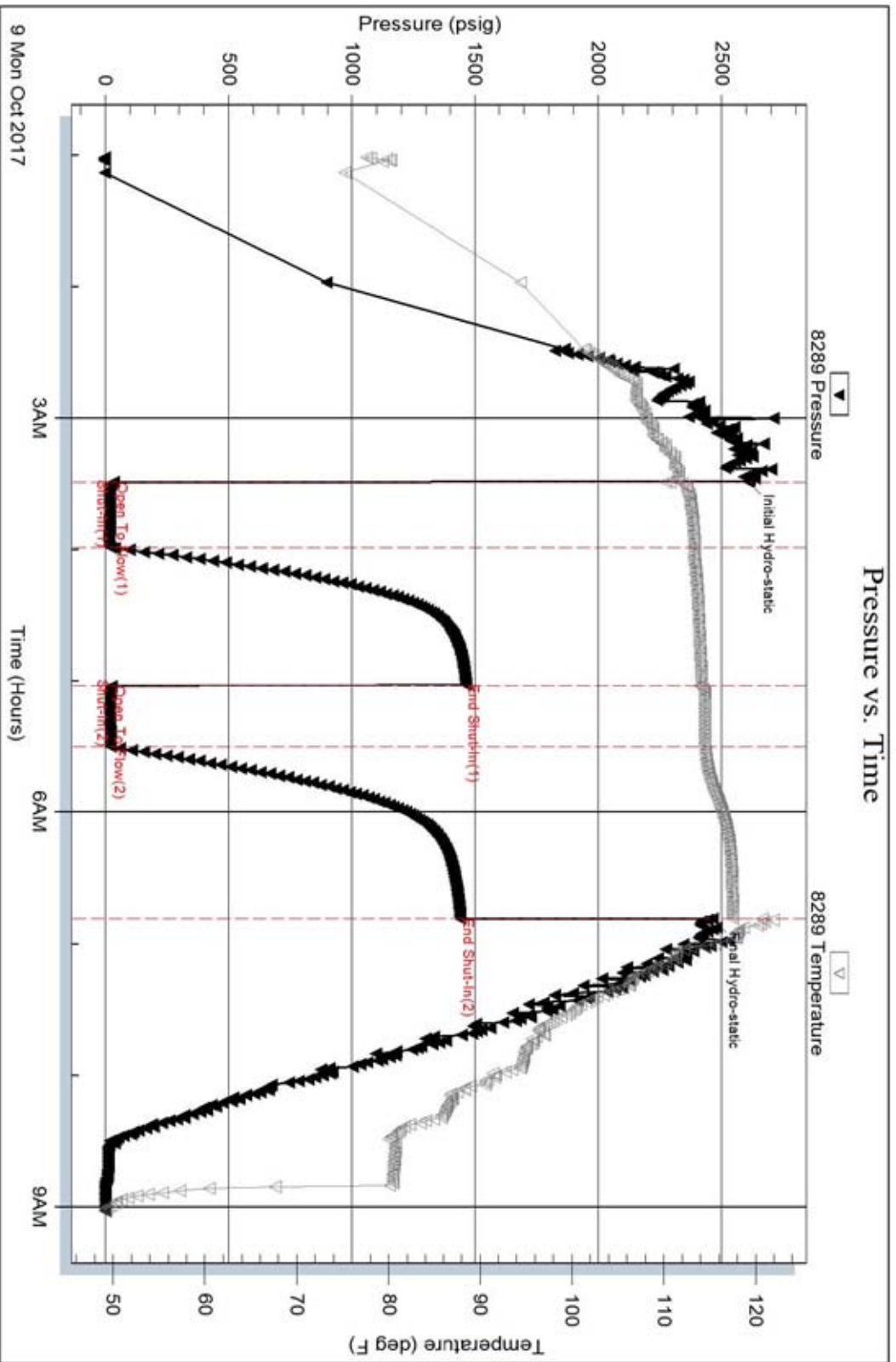
This log must be shifted by 1' to 2' for correlation purposes with the open hole E-logs. Open hole E-log depth was 5,338'.

Serial #: 8289

Inside Vincent Oil Corp.

Keough 8-34

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59469

Printed: 2017.10.09 @ 09:56:07

Serial #: 8289

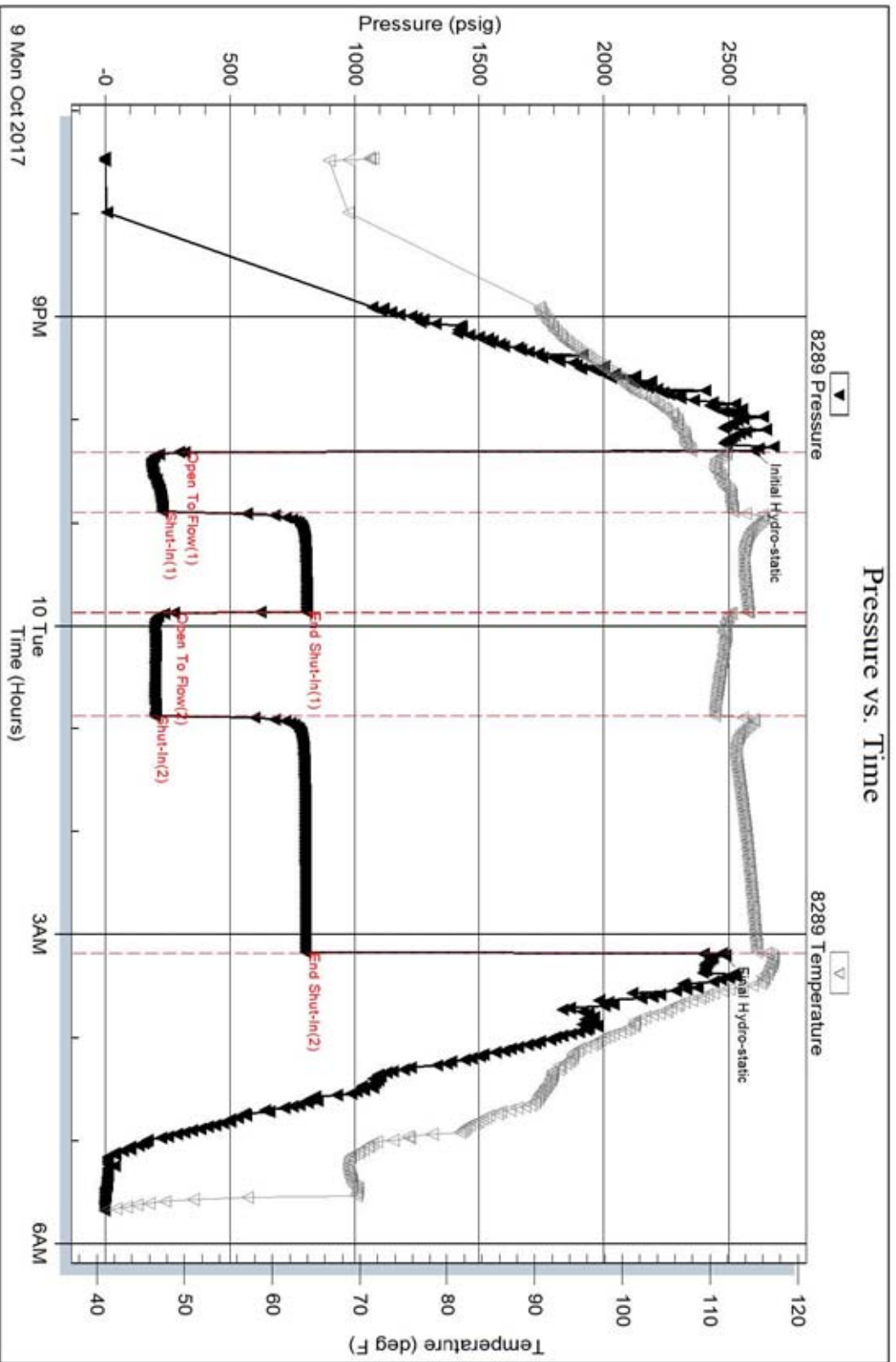
Inside

Vincent Oil Corp.

Keough 8-34

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59470

Printed: 2017.10.10 @ 07:32:20

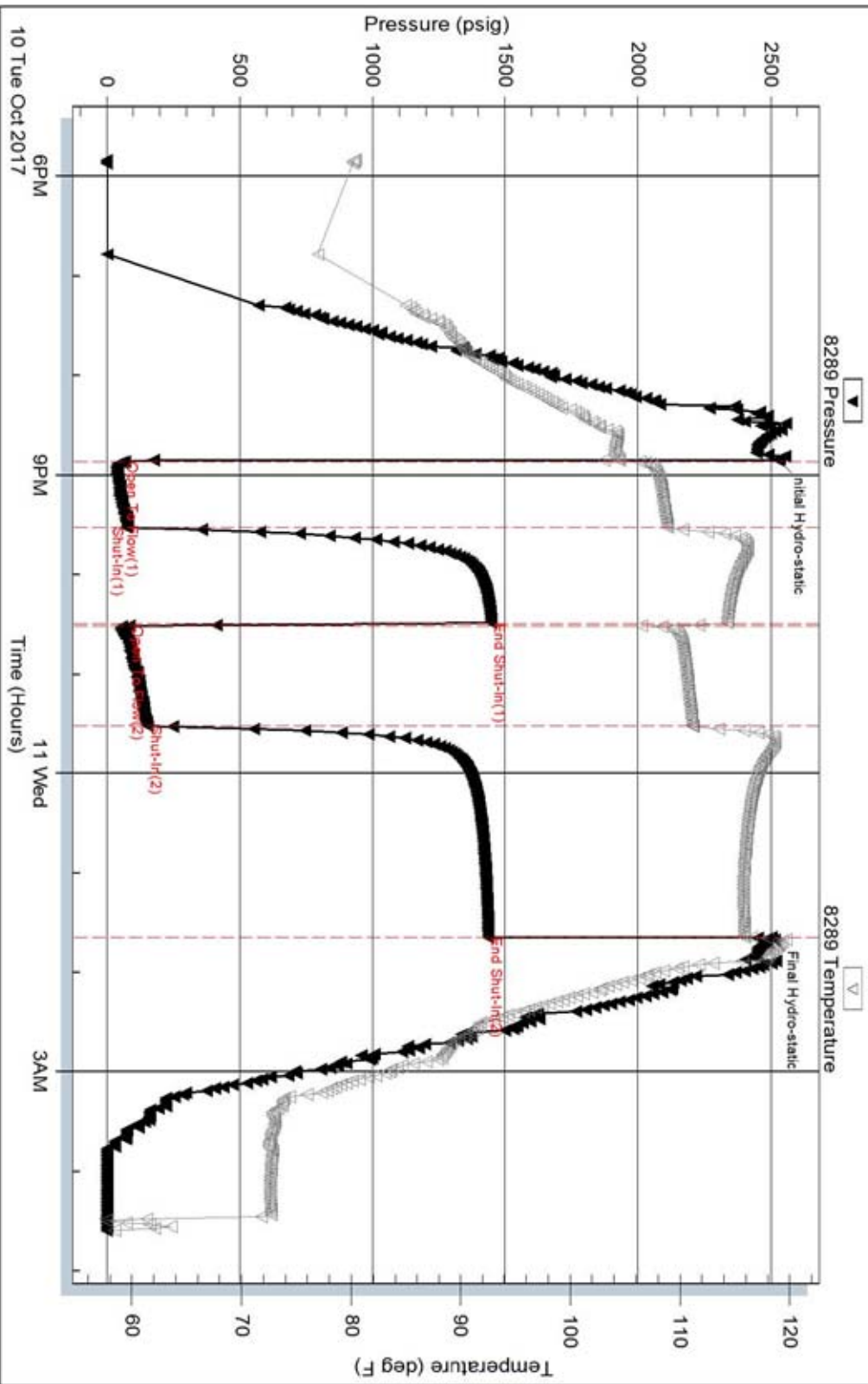
Serial #: 8289

Inside Vincent Oil Corp.

Keough 8-34

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 59471

Printed: 2017.10.11 @ 08:01:56

DSTs

DST #1 Base Penn 5,139' 5,162' (23'), 30-60-30-60, IH 2606#, IF 35-23# BOB 4min (strong steady) ISI 1464# (no blow), FF 25-22# BOB when open (strong steady), FSI 1442# (no blow), FH 2464#, Rec; 30' gassy mud (15%gas, 85%mud), 248' gas in pipe. BHT 11

DST #2 Morrow 5,175' - 5,189' (14'), 30-60-60-120, IH 2601#, IF 318-231# BOB GTS 2min, (10' 379mcf, 20' 492mcf, 30' 547mcf), ISI 808# (no blow), FF 275-198# BOB GTS imd, (10' 488mcf, 20' 536mcf, 30' 549mcf, 40' 549mcf, 50' 549mcf, 60' 549mcf), FSI 805# (no blow), FH 2472#, Rec; 15' gassy mud (5%gas, 95%mud), BHT 115F

DST #3 Miss. 5,199' - 5,226' (27'), 40-60-60-120, IH 2528#, IF 67-73# BOB 30sec, GTS 20min, (20' 7mcf 30' 11mcf, 40' 11mcf,) ISI 1449# no blow, FF 84-154#, BOB GTS imd, (10' 14mcf, 20' 15mcf, 30' 18mcf, 40' 18mcf, 50' 18mcf, 60' 18mcf), Rec; 30' gasy oily mud (5%gas, 15%oil, 80%mud), 220' gasy oil (20%gas, 80%oil), FSI 1438# blow back in 30sec, weak surface blow, FH 2502#, BHT 116F, Oil 32deg.


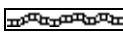
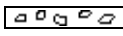
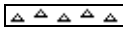
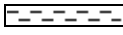

Qualifiers


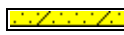




CARBONATE CLASSIFICATION:


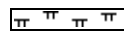

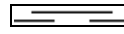


AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. MUDSTONE; muddy carbonate rocks containing less than 10% grains. WACKESTONE; mud supported carbonate rocks with more than 10% grains. PACKSTONE; grain supported muddy carbonate rocks. GRAINSTONE; mud 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
	Bent
	Brec
	Cht
	Clyst
	Coal

	Congl
	Sdy dolo
	Shy dolo
	Dol
	Gyp
	Sdy lmst

	Lmst
	Mrlst
	Salt
	Shale
	Sltst
	Ss

	Black sh
	Gry sh
	Shale
	Shyslts
	Slysh

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
- Silty

FOSSIL

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

- Pelec
- Peloidal
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

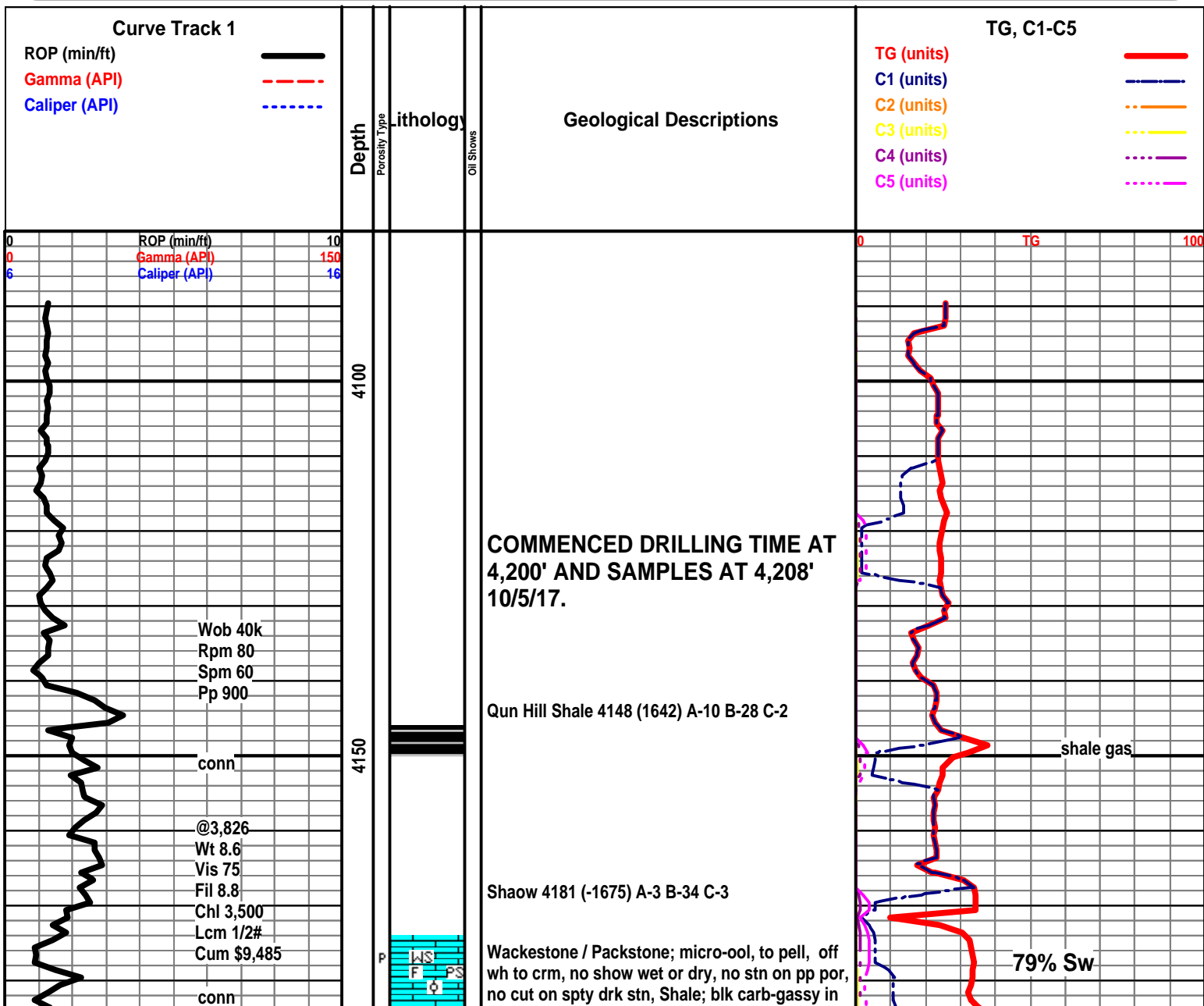
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

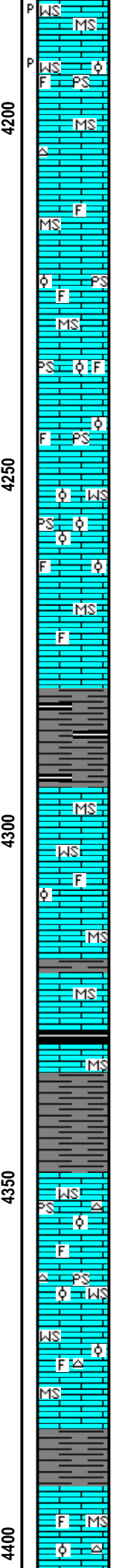
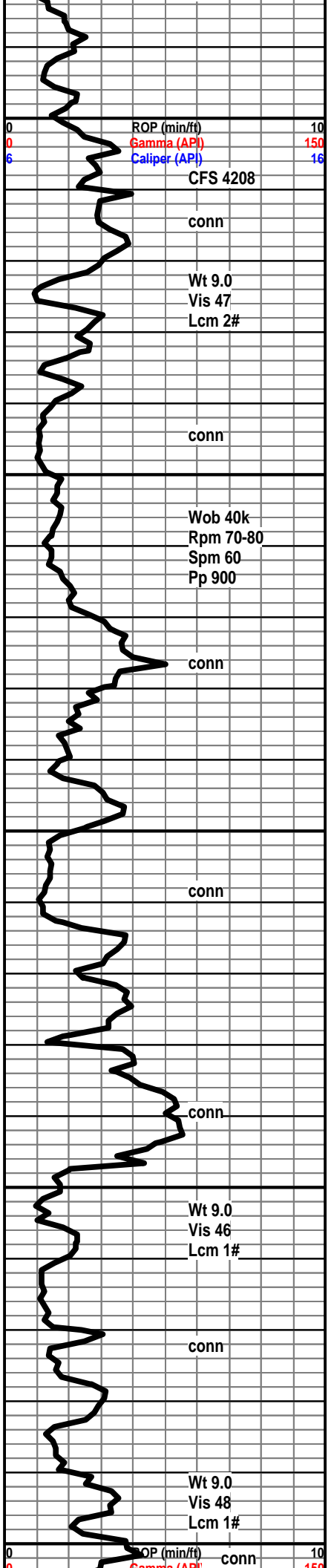
STRINGER

- 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





sample from above

Wackestone / Packstone; aa above chky to crystalline text. no show wet or dry, aa approx 15% por.

Mudstone; tan, gry, hrd, rare free pyr.

Mudstone / Wackestone; lt gry, crm, hrd, sm foss dense looking wet, slky-chky text, 10% shale red, blk-gssy cave.

Packstone; crm, off wh, mic-ool, pell, hrd to sft, vis por in dry, no show.

Mudstone; gry, hrd blk.

Packstone / Wackestone; off wh, crm, mic-ool hrd to sft, no cut or show in wet or dry sample, rare spty stn, no cut scat vis por in dry-no stn

AA

Mudstone; gry, buff to tan, hrd, sm foss frag.

Shale; gry, drk gry, 20% blk-carb, sft to frm no vis gas when broken

Mudstone; crm, tan, hrd, dns.

Wackestone; off wh, buff-crm, foss, mic-ool, most hard, rare 2nd calc, no show wet or dry, 10% - 20% shale aa-cave.

Heebner 4328 (-1822) A-5 B-8 C+1

Shale; blk-carb, most sft, no vis gas.

Shale; gry, gry-grn, blk.

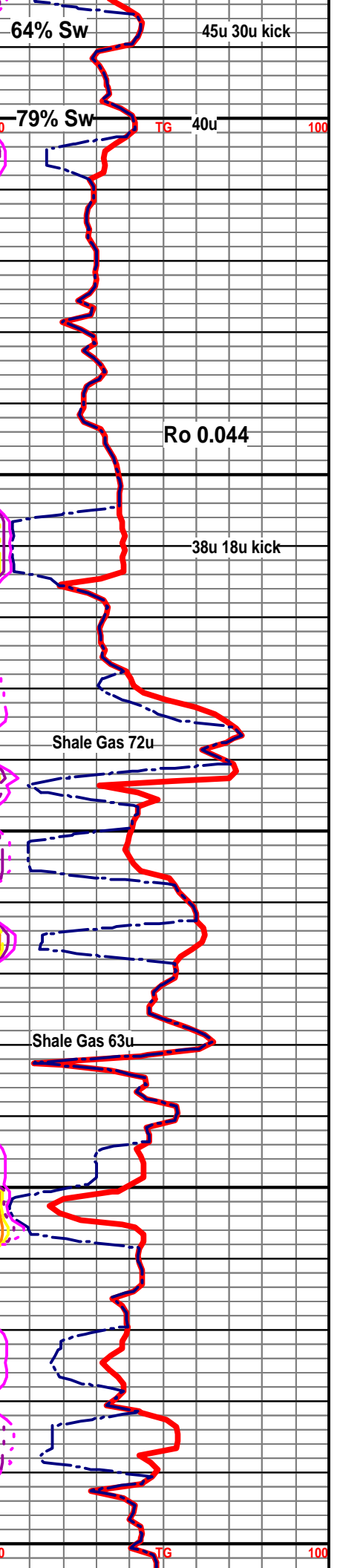
Wackestone / Packstone; crm, tan, hard-britt, foss to mic-ool, barren pp por in dry no stn, rare free chert.

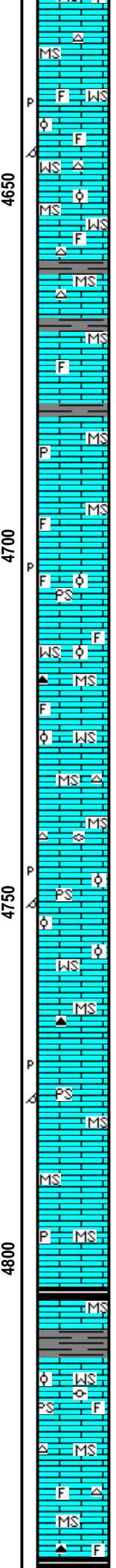
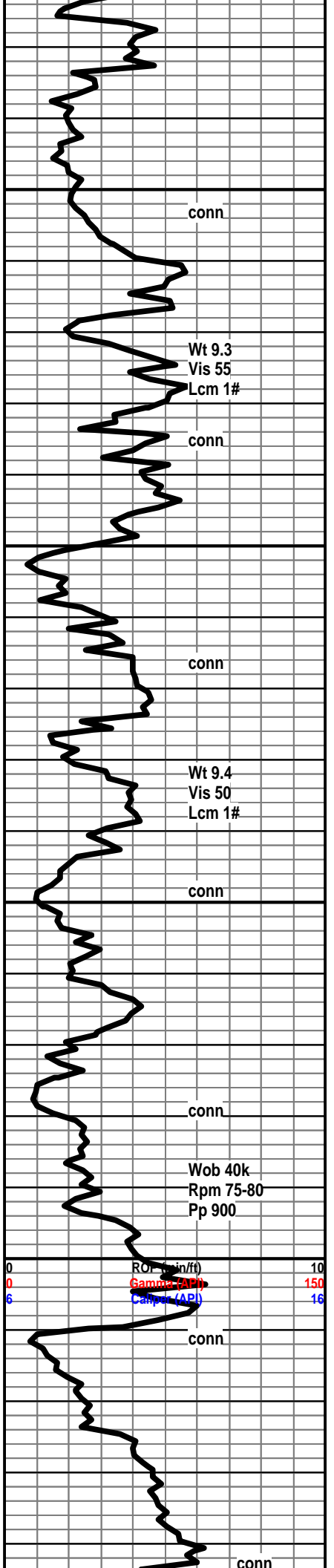
Wackestone / Packstone; off wh, hrd-britt, foss, mic-ool, rare pp and vgy por in dry, no show. rare free chert.

Mudstone; hrd, dnse, rare free wh chert.

Shale; gry-blk sft - hrd.

Mudstone; gry, tan, hrd, mic-ool some foss, no show.





por in dry, rare free chert

Mudstone; crm, brn, chky to silky text, dns.

Wackestone; crm, tan, hrd to sft, chky to silky tex mic-ool to mic-foss, rare brn mic-pp and mic-oom looking por, no show.

Mudstone / Wackestone; aa, min flour only, free gry chert, rare brk brn mdstn silky text.

Mudstone; crm tan, gry, hrd-sft, free lt gry chert.

Shale; sl increase in % here, gry gry-gry.

Mudstone; crm, tan, sm brn, sm mic-foss, rare 2nd calc.

Mudstone; crm tan to off wh, rare pyr inclusions, dns looking wet and dry.

Packstone; crm, off wh, mic-ool, to fine-ool, most in chky mtrx, no show

Mudstone; crm, gry, hrd, sm foss, rare dark free blk chert.

Wackestone / Packstone; crm, off wh, sm tan, mic-ool to mic-foss, no show as above mineral fluor only.

Mudstone; crm, gry, fus frag, free chert.

Packstone; crm, gry, britt to hrd, mic-ool to fine ool, occ med-ool, most silky mtrx, no show, no cut on sel samples, brn por in dry sample no show.

Mudstone; crm, tan, gry, rare free drk brn chert.

Packstone; tan, crm, britt, mic-ool to fine-ool, rare med foss frag, chky to silky mtrx, no show.

Mudstone; crm, tan, occ brn, chky-silky text, dns look wet, rare free pyrite in sample tray.

Stark Sh 4,806 (-2300) A-5 B-3 C+10

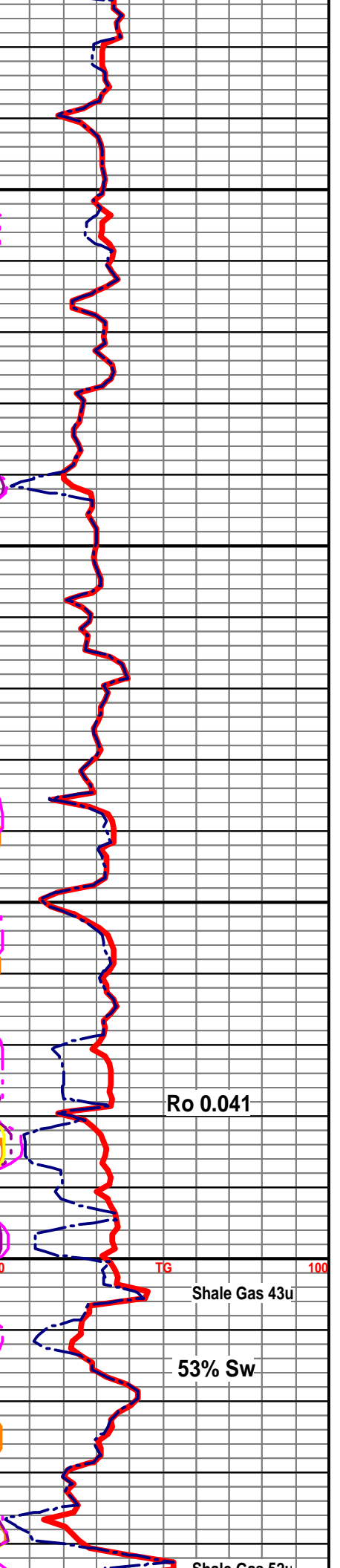
Shale; blk-gssy.

Shale; gry, gry-grn, blk, sm mott, plty-sft.

Wackestone / Packstone; off wh, tan, mic-ool, mic-foss, rare pell, sm fine-ool, no show.

Mudstone; off wh, gry, some brn, hrd, rare free colored chert, some spicular.

Hushp. Sh 4,844 (-2328) A-5 B+1 C+7

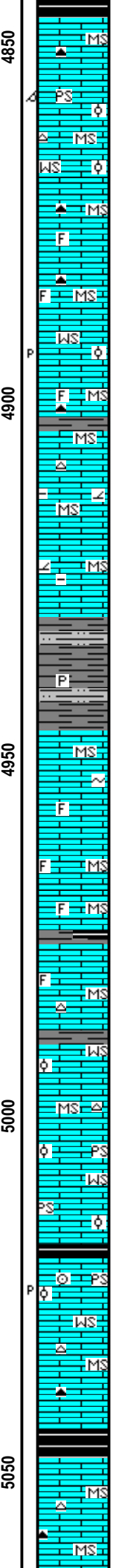
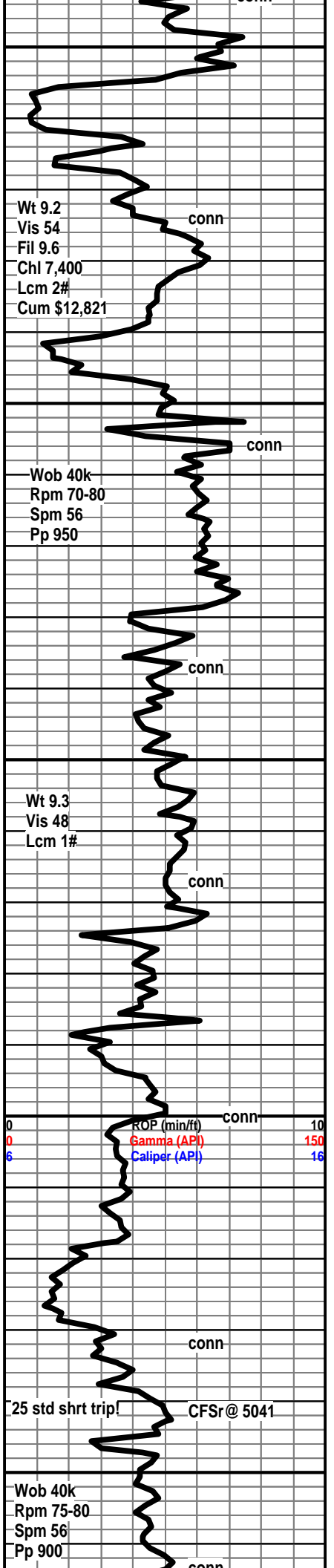


Ro 0.041

Shale Gas 43u

53% Sw

Shale Gas 52u



Shale; blk-carb, gsy when broken

Mudstone; crm, brn, rare free dk brn chert.

Packstone; crm tan, britt, fine-ool to lrg-ool, silky-luster mtrx, vis oom por, no cut, no odor, no show.

Wackestone; crm, tan, mic-ool, chky to silky luster, sm foss frag in mtrx, no show.

Mudstone; crm, buff, hrd, most silky luster, rare wh mott chert.

Mudstone; aa trace blk blkly chert, some foss.

Wackestone; crm, tan, mic-ool, chky to silky luster, sm foss frag in mtrx, no show.

Mudstone; crm gry, hrd, some foss, chert aa.

Mudstone; gry, drk gry, hrd, chky text, blkly, dolo to argil, some drk brn, silky text, dns, rare free chert.

Mudstone; most as above chky to mxln, samples starting to wash gry.

Shale; gry, drk gry, gry-grn, most plty, some rthy-very sft, rare vf-pyr inclusions, sm slty.

Marmaton 4946 (-2440) A-3 B-24 C even

Mudstone; crm, gry to tan, dns-hrd, silky-xln, some off wh, chky-sft to britt, rare glauc in mtrx, some are mic-foss.

Mudstone; crm, tan, xln-dns silky, sm chky, sme mic-foss, aa min-fluor only.

Shale; blk-carb, some mott grn, gry-grn, most sft.

Mudstone; crm, brn, xln-chky, dns, sm mic-foss, rare free tan chert.

Mudstone / Wackestone; crm, gry, hrd-britt, chky-xln mtrx, mic-ool, no show.

Wackestone / Packstone; crm, mic-ool to med-ool in xln mtrx, sm foss frag, no show.

Pawnee 5021 (-2515) A even B-10 C+2

Shale; blk-carb, gassy

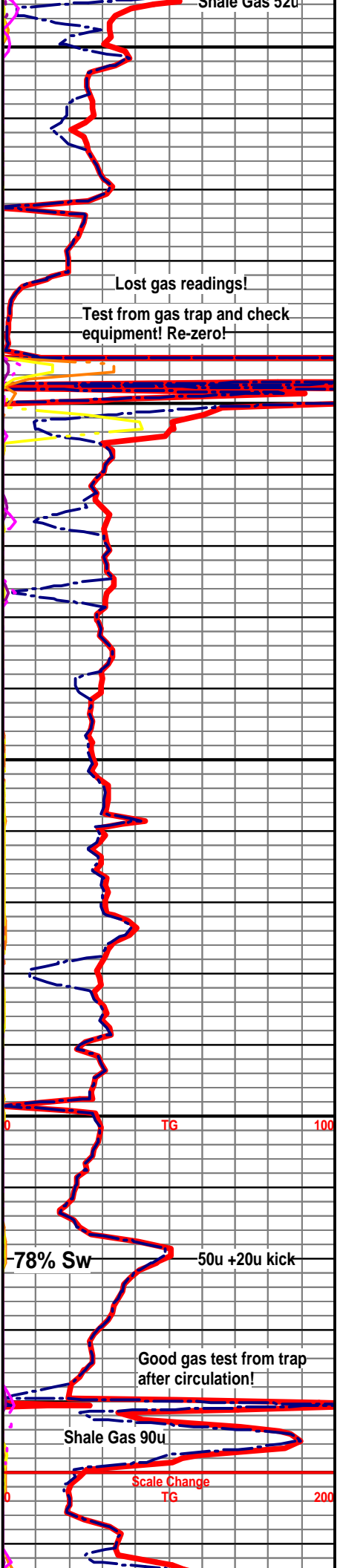
Wackestone / Packstone; crm, tan off off wh, mic-ool, to rare fine-ool, chky-xln mtrx, hrd-britt, no por or show in wet, rare brn pp por in dry-no stn, no odor, no cut.

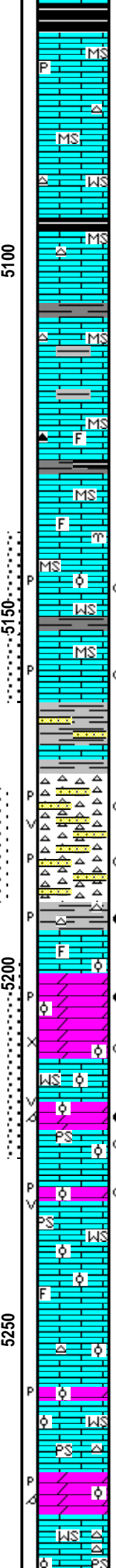
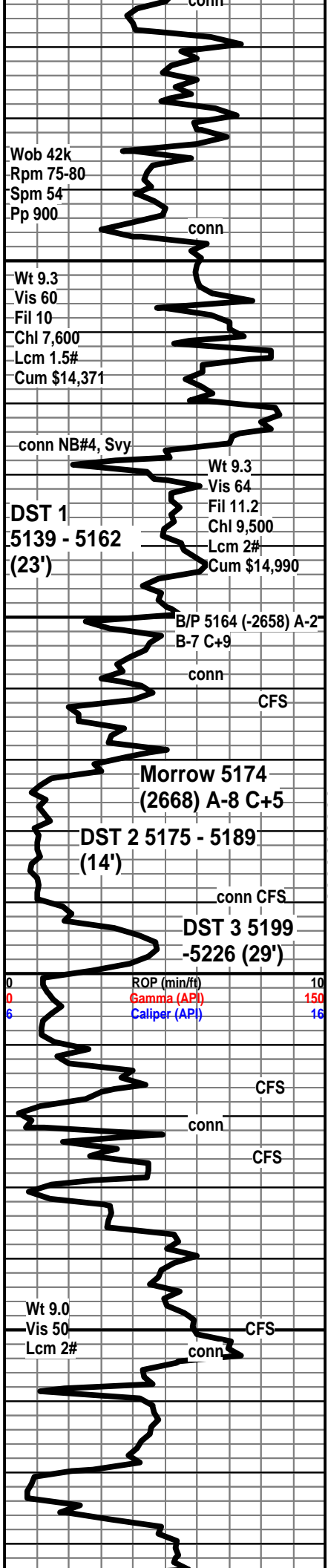
Mudstone; crm, tan sm off wh, rare free tan lt brn chert, sm foss.

Lab. SH 5045 (-2539) A even B-8 C+3

Mudstone; crm, tan, inc gry, most hrd, chky-xln, dns, rare free lt and drk chert, sample quality fair after short trip.

CKE 5005 (-2550) A-1 B-7 C





CKE 5065 (-2559) A+1 B-7 C+

Mudstone; crm, gry to buff, hrd, chky-xln, much blk gssy shale here, rare free pyr and wh to opq chert.

Mudstone; aa, small % inc Wackestone; tan, gry-buff, hrd, xln mtrx, mic-ool, tight, no show.

Mudstone; crm, tan, gry, hrd, rare mott free chert, influx of hrd blk carb shales.

Mix mudstones and some Wackestone as above, % inc in mouse gry sft shales cave?

Mudstone and some Wackestone as above crm, tan, gry, hrd, xln-chky, some mic-ool Wackestone aa, no show tight, shale aa.

Mudstone; crm, tan, gry, most hrd, chky-xln, sm Wkstn with mic-foss no show. shale 20% lt gry, drk gry, sm blk, sm mott, inc shale % with depth.

Mudstone; aa, sm off wh-chky, less% shale here, rare bryzo no cut, no show.

Mudstone; aa, trace Wackestone mic-ool, 1 sample w/spty stn on pp por, inst cut.

Mudstone; crm, gry, sm off wh, hrd-britt, xln - chky, trace to 5% brt fluor in cir samples, only 5 samples with fast to slow cut on rare vis pp & wormy por, rare poor stn, no odor, no oil.

Sh; vry color. SS; rare lt gry, drk spty stn, cut.

60 min 20% sample chert, vc, most fresh, blk, appr. 5% of chert has spty lt brn stn on wthrd edges and occ pp por, dull gold fluor, inst brt cut, no vis oil, no odor, SS; rare lt gry, fg, vfg, wlcons, wlsrtd, spty blk stn, inst cut on dull gold fluor, much shale in samples. 90min; 50% chert, 2% with show aa, rare sand clusters aa, 120min; aa with only rare show in tray.

Miss 5194 (-2688) Aevn B-19 C+14

Mudstone / Wackestone; crm, off wh, sm mic-ool, NS.

Dolomite; lt gry, buff, hrd to friable, sm grty text, sm vfsuc, chky mtrx, most brn of show, 2% sample w/show, bleed oil, sm rainbow wh/brkn, spty to even oil stn, fvln to pp por, por spty to even on some pcs, good odor, sm free oil in try, some mic-ool dolo.

Dolomite; 25% / 35% lt gry, tan, most hrd, mic-ool to med-ool look, vgy to oom por with bleeding brn oil, bld gas bub, fair odor,

Packstone / Wackestone; off wh, crm, chky-sft, frm-sft, mic-ool to fn-ool, fluor cut, no vis gas or oil, fair sample odor aa.

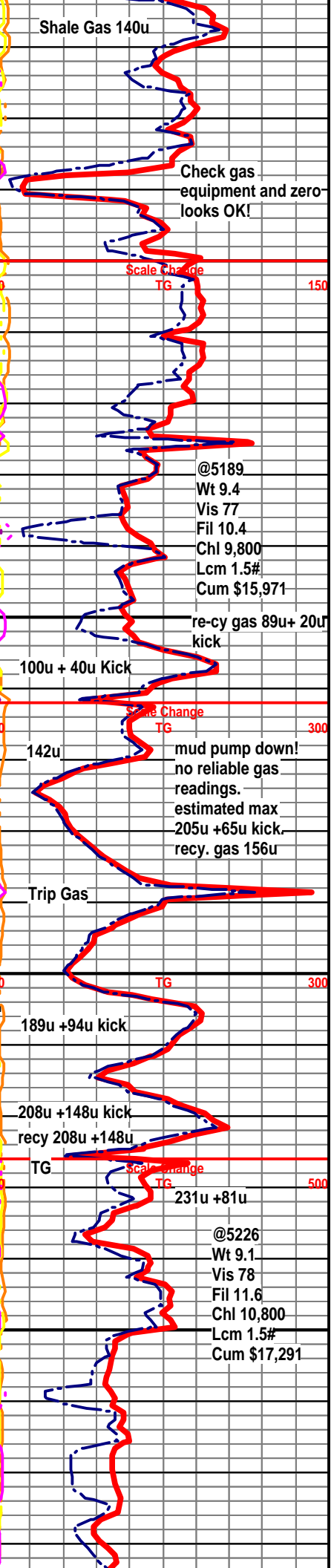
Dolomite; crm, tan gry, most hrd, suc, barren, rare vis spty small pp & vgy por with bleeding gas and rainbow to rare oil droplets, very faint odor.

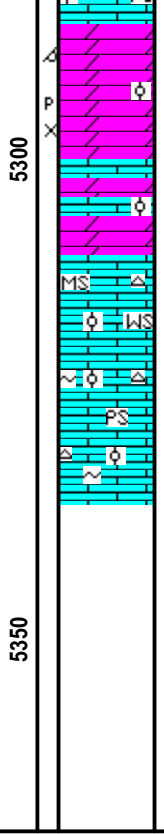
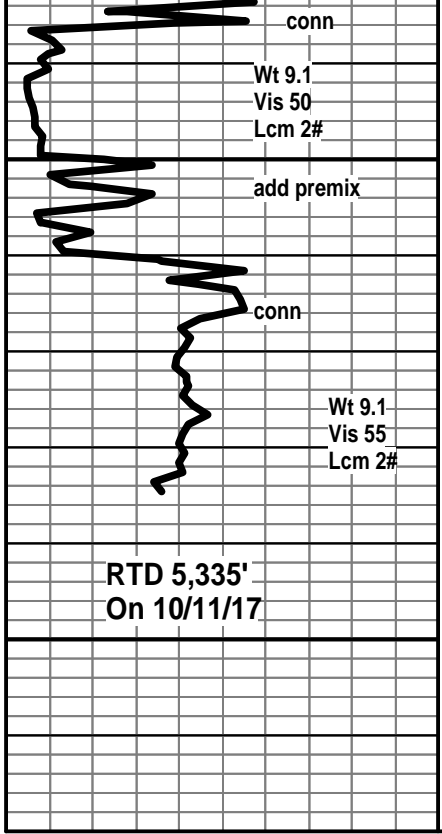
Wackestone / Packstone; crm-buff, sm off wh, hrd-britt, sm sft, mic-ool, med-ool in chky mtrx no show, free chert.

Wackestone / Packstone; crm, off wh, hrd-sft, mic-ool, med-ool in chky mtrx no show, free chert, some ool.

Dolomite; buff, gry, hrd, suc to mic-ool, vis pp an occ oom por, no show.

Wackestone / Packstone; crm, off wh, hrd to sft, mic ool to med ool, in chky mtrx, free chert





mic-ool to med-ool, in chky mtrx, free chert

Dolomite; buff gry, some tan, hrd to vry-hrd, sucrosic to vf-xln, some mic-ool, barren pp, occ vgy por.

Dolomite & Limestone aa no real change here.

Mudstone / Wackestone; crm, buff, hrd, most chky some xln-silky, dns, some mic-ool in chky mtrx, free off white to gry chert.

Wackestone / Packstone; most aa, increase in crm to off wh, mic-ool in a chky mtrx, 2pcs with rare glauconite, no show, rare free chert as above.

