



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1221311
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1221311

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 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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Droste 2-10
Doc ID	1221311

All Electric Logs Run

Dual Induction
Density-Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Droste 2-10
Doc ID	1221311

Tops

Name	Top	Datum
Heebner Shale	4266	(-1793)
Brown Limestone	4402	(-1929)
Lansing	4416	(-1943)
Stark Shale	4733	(-2260)
Pawnee	4933	(-2460)
Cherokee Shale	4984	(-2511)
Base Penn Limestone	5090	(-2617)
Morrow Sand	5124	(-2651)
RTD	5138	(-2665)

QUALITY WELL SERVICE, INC.

6146

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	05-07-14	Sec.	10	Twp.	28s	Range	23w	County	Ford	State	KS	On Location	8:30 AM	Finish	11:30 AM	
Lease	Droste		Well No.	2-10		Location Ford KS, 1/4 N, 3 W, 1 S, 3/4, 5/8 in to										
Contractor	Duke #1							Owner	Vincent							
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.	248 650												
Csg.	8 5/8 24#		Depth	248 649.		Charge To	Vincent									
Tbg. Size			Depth			Street										
Tool			Depth			City State										
Cement Left in Csg.	42'		Shoe Joint	42.23		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace	38 1/2 Bbls Fresh		Cement Amount Ordered	125sx MDC # 125sx class A									
EQUIPMENT						+ 2% gel + 3% cc 1/4 c.f.										
Pumptrk	8	No.	Mike B			Common	125									
Bulktrk	10	No.	Dave B			Roz Mix	MDC 125									
Bulktrk	9	No.	Dave F			Gel.	11									
Pickup		No.	Darin			Calcium	10									
JOB SERVICES & REMARKS						Hulls										
Rat Hole						Salt										
Mouse Hole						Flowseal	66.25									
Centralizers						Kol-Seal										
Baskets						Mud CLR 48										
D/V or Port Collar	Ran 15 jts 8 5/8 csg					CFL-117 or CD110 CAF 38										
Pipe on Btm, Break Circ., Pump 3 Bbls						Sand										
Spacer, Mix 125sx MDC, # 49.87 Bbls Slurry						Handling 271										
Mix 125sx A 3#2 cement, = 47.73 Bbls Slurry						Mileage 50										
Stop Pump, Release Plug, Start Disp. w/						FLOAT EQUIPMENT										
Fresh H2O, wash up on Plug, See Steady						Guide Shoe										
increase in PSI @ Bbls Slow Rate,						Centralizer										
Bump Plug, Shut in at 38 1/2 Bbls total						Baskets										
Disp. w/ 450# PSI, Cement Did Circ.						AFU Inserts										
						Float Shoe Secure Supervisor										
						Latch Down LMV 50										
						Baffle Plate 8 5/8										
						8 5/8 wooden Plug.										
						Pumptrk Charge Surface.										
						Mileage 50 x 2										
						Tax										
						Discount										
						Total Charge										
X Signature	Mike Adams															

QUALITY WELL SERVICE, INC.

6149

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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	05-16-14	Sec.	10	Twp.	28s	Range	23w	County	Ford	State	KS	On Location	1:30AM	Finish	7:15AM
Lease	Droste		Well No.		2-10		Location Ford KS, w to 122 nd , 1s, 3/4w, f into								
Contractor	Duke #1							Owner Vincent							
Type Job	Production							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.		5138										
Csg.	5 1/2		14 #		Depth		5137		Charge To Vincent						
Tbg. Size			Depth		Street										
Tool			Depth		City							State			
Cement Left in Csg.	42'		Shoe Joint		42		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		Bbls 2% KCL		Cement Amount Ordered 225sx Pro C + 5# Kol Seal								
EQUIPMENT								10% Salt							
Pumptrk	8	No.	David B				Common 225sx Pro C								
Bulktrk	5	No.	Mike B				Poz. Mix								
Bulktrk		No.					Gel.								
Pickup		No.	David F				Calcium								
JOB SERVICES & REMARKS								Hulls							
Rat Hole	30sx		8.4 Bbls				Salt 24								
Mouse Hole	20sx		5.6 Bbls				Flowseal								
Centralizers							Kol-Seal 1125 #								
Baskets							Mud CLR 48 500 gal								
D/V or Port Collar							CFL-117 or CD110 CAF 38 CC-1 12 Gal								
Pipe on Btm, Break Circ, - Pump Preflush								Sand							
18 Bbls, Plug rat & Mouse holes w/ 50sx								Handling 249							
cement = 14 Bbls, Mix 175sx Pro C								Mileage 50							
Cement = 48.93 Bbls, Stop-Wash Pump								FLOAT EQUIPMENT							
4 Lines, Release Plug; Start Disp. w/								Guide Shoe 1-5 1/2							
2% KCL Water, See Steady increase in								Centralizer 6-5 1/2							
PSI @ 84 Bbls, Slow Rate, Slow again								Baskets							
at 115, Bump Plug at 124 1/2 Bbls total								AFU Inserts 1-5 1/2							
Disp. from 800 PSI to 1100 PSI								Float Shoe							
Release PSI, Float Did Hold								Latch Down 1 Top Rubber Plug							
								Supervision							
								LMV 50							
								Pumptrk Charge Long string							
								Mileage 50 x 2							
								Tax							
								Discount							
X Signature								Total Charge							



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

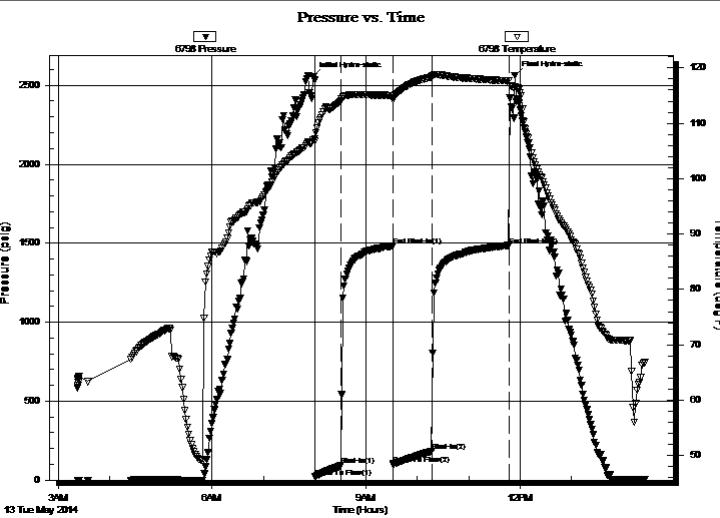
10-28S-23W Ford
Droste 2-10
Job Ticket: 58987 **DST#: 1**
Test Start: 2014.05.13 @ 03:22:56

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:59:56
Time Test Ended: 14:25:41
Interval: **4925.00 ft (KB) To 4955.00 ft (KB) (TVD)**
Total Depth: 4955.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2473.00 ft (KB)
2461.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6798 Inside
Press@RunDepth: 182.05 psig @ 4926.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.05.13 End Date: 2014.05.13 Last Calib.: 2014.05.13
Start Time: 03:22:57 End Time: 14:25:41 Time On Btm: 2014.05.13 @ 07:58:11
Time Off Btm: 2014.05.13 @ 11:53:41

TEST COMMENT: IF: Weak Blow , BOB in 29 minutes
IS: No Blow Back
FF: Weak Blow , Built to 8 inches
FS: No Blow Back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2552.80	107.07	Initial Hydro-static
2	21.09	106.79	Open To Flow (1)
33	91.99	114.08	Shut-In(1)
93	1482.54	114.95	End Shut-In(1)
94	99.95	114.65	Open To Flow (2)
139	182.05	118.37	Shut-In(2)
229	1485.83	117.70	End Shut-In(2)
236	2563.00	116.58	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
315.00	Water	4.42
30.00	SMCW 10%M 90%W	0.42

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

10-28S-23W Ford

155 N Market Ste 700
Wichita, KS 67202

Droste 2-10

Job Ticket: 58987

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2014.05.13 @ 03:22:56

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:

75000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	Water	4.419
30.00	SMCW 10%M 90%W	0.421

Total Length: 345.00 ft Total Volume: 4.840 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .12 @ 65 degrees

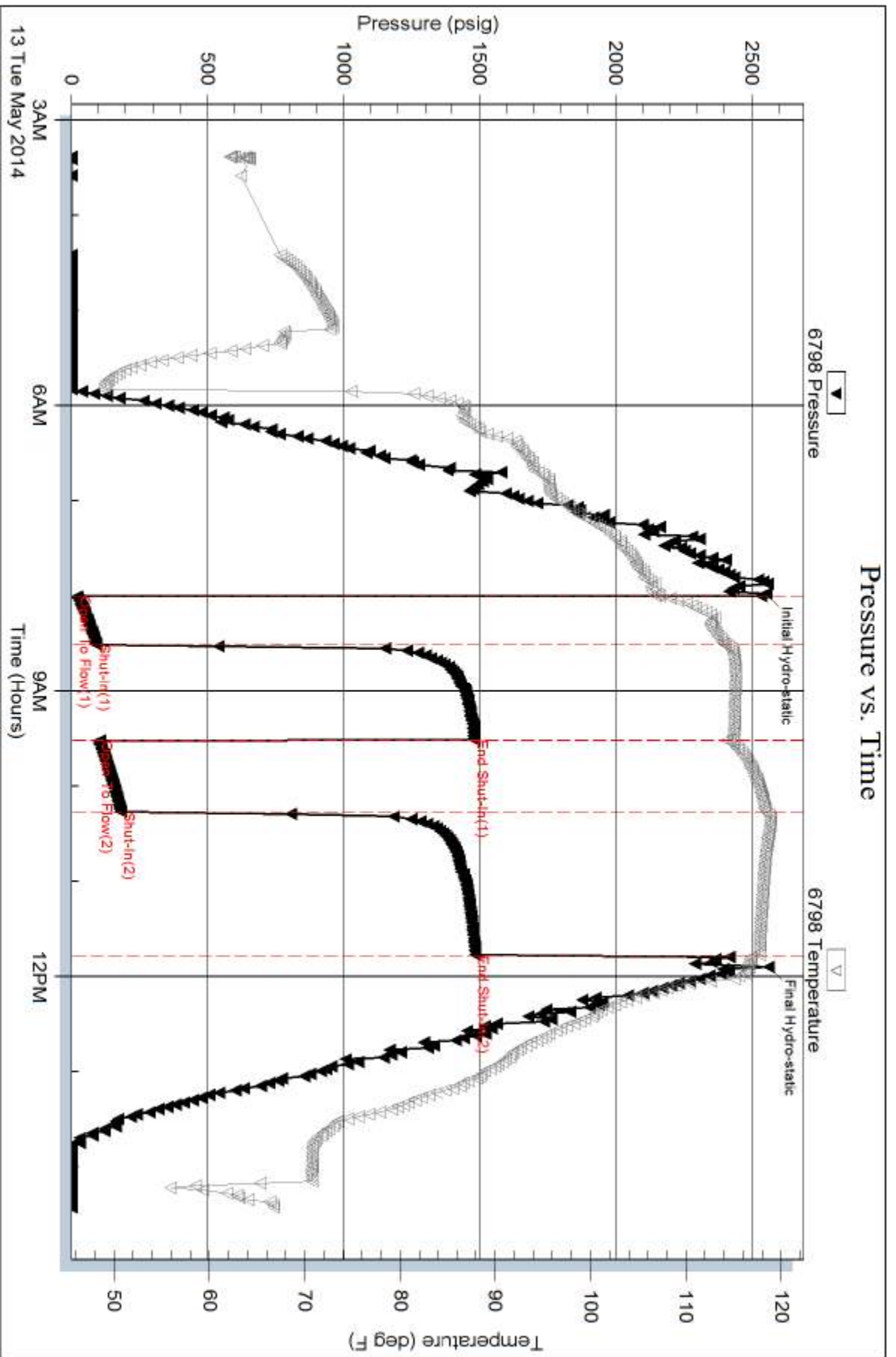
Serial #: 6798

Inside

Vincent Oil Corporation

Droste 2-10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58987

Printed: 2014.05.13 @ 14:58:57



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corporation

10-28S-23W Ford

155 N Market Ste 700
Wichita, KS 67202

Droste 2-10

Job Ticket: 58988

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2014.05.14 @ 14:41:34

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:14:34

Time Test Ended: 01:47:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 5082.00 ft (KB) To 5138.00 ft (KB) (TVD)

Reference Elevations: 2473.00 ft (KB)

Total Depth: 5138.00 ft (KB) (TVD)

2461.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 12.00 ft

Serial #: 6798

Inside

Press@RunDepth: 1050.44 psig @ 5083.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.14

End Date:

2014.05.15

Last Calib.:

2014.05.15

Start Time: 14:41:35

End Time:

01:47:34

Time On Btm:

2014.05.14 @ 17:13:49

Time Off Btm:

2014.05.14 @ 21:08:04

TEST COMMENT:

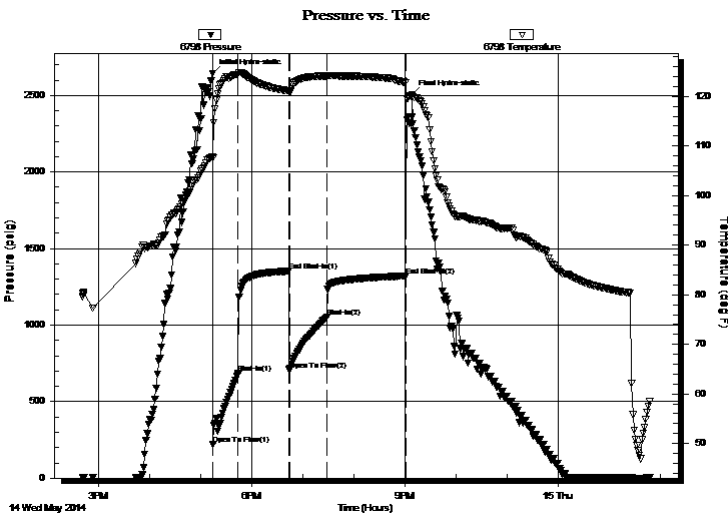
IF: Strong Blow , BOB in 90 seconds

IS: 4 inch Blow Back

FF: Strong Blow , BOB in 90 seconds, GTS in 25 minutes, TSTM, Caught Sample

FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2644.26	107.85	Initial Hydro-static
1	221.63	107.62	Open To Flow (1)
31	684.06	124.46	Shut-In(1)
90	1352.01	121.08	End Shut-In(1)
91	704.90	120.96	Open To Flow (2)
135	1050.44	124.11	Shut-In(2)
227	1319.30	122.81	End Shut-In(2)
235	2502.79	120.05	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00	2350 GIP	0.00
126.00	Water	1.77
1764.00	GWCO 10%G 10%W 80%O	24.74
630.00	GSY Oil 20%G 80%O	8.84
199.00	GMMCO 20%G 10%W 10%M 60%O	2.79

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

10-28S-23W Ford

155 N Market Ste 700
Wichita, KS 67202

Droste 2-10

Job Ticket: 58988

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2014.05.14 @ 14:41:34

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

75000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	2350 GIP	0.000
126.00	Water	1.767
1764.00	GWCO 10%G 10%W 80%O	24.744
630.00	GSY Oil 20%G 80%O	8.837
199.00	GMWCO 20%G 10%W 10%M 60%O	2.791

Total Length: 2719.00 ft Total Volume: 38.139 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 30.8 @ 70 degrees

RW w as .13 @ 62 degrees

Serial #: 6798

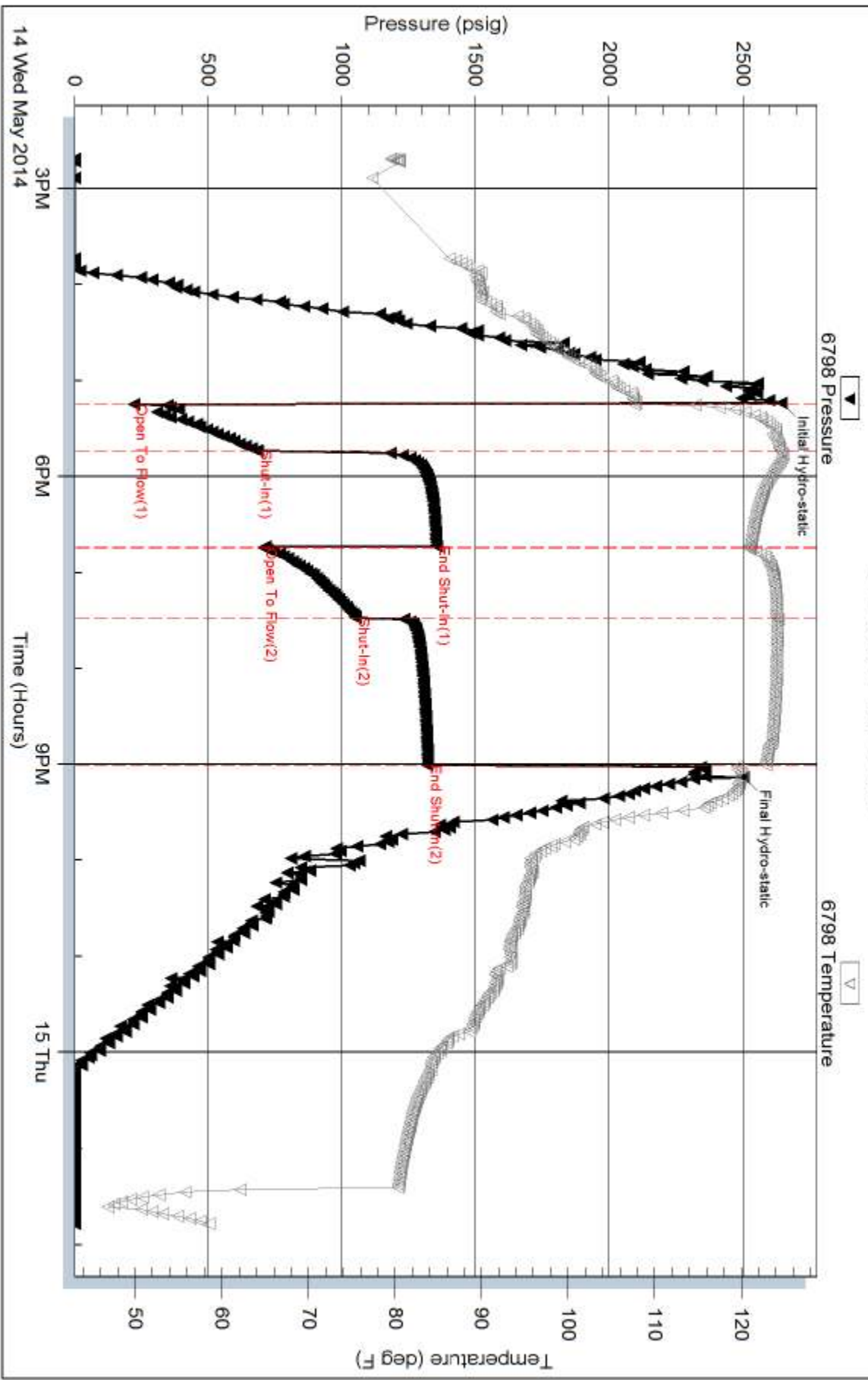
Inside

Vincent Oil Corporation

Droste 2-10

DST Test Number: 2

Pressure vs. Time





VINCENT OIL CORPORATION



Scale 1:240 Imperial

Well Name: Droste 2-10
 Surface Location: 1350 FNL 2105 FEL T28S R23W Sec. 10
 Bottom Location:
 API: 15-057-20932
 License Number:
 Spud Date: 5/6/2014 Time: 5:37 PM
 Region:
 Drilling Completed: 5/14/2014 Time: 12:00 PM
 Surface Coordinates: 1350 FNL & 2105 FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2461.00ft
 K.B. Elevation: 2473.00ft
 Logged Interval: 4150.00ft To: 5138.00ft
 Total Depth: 5138.00ft
 Formation: Morrow Sand
 Drilling Fluid Type: Chemical Mud

OPERATOR

Company: Vincent Oil Corporation
 Address: 155 N Market
 Ste 700
 Wichita, KS 67202
 Contact Geologist: Dick Jordan
 Contact Phone Nbr: 316-262-3573
 Well Name: Droste 2-10
 Location: 1350 FNL 2105 FEL T28S R23W Sec. 10 API: 15-057-20932
 Pool: Field:
 State: KANSAS Country: USA

CONTRACTOR

Contractor: Duke Drilling Co, Inc.
 Rig #: 1
 Rig Type: Rotary
 Spud Date: 5/6/2014 Time: 5:37 PM
 TD Date: 5/14/2014 Time: 12:00 PM
 Rig Release: 5/16/2014 Time: 6:00 PM

ELEVATIONS

ELEVATIONS

K.B. Elevation: 2473.00ft
K.B. to Ground: 12.00ft

Ground Elevation: 2461.00ft

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.8212454 Latitude: 37.6274497
N/S Co-ord: 1350 FNL
E/W Co-ord: 2105 FEL

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
Chemical Mud	5/15/2014	3800.00ft	5138.00ft

OPEN HOLE LOGS

Logging Company: Nabors Completion and Production Services Co.
Logging Engineer: Jeff Leubbers
Truck #:
Logging Date: 5/15/2014 Time Spent:
Logs Run: 0 # Logs Run Successful: 0

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5138.00ft	2.00		1
Comp. Den/Neu	4200.00ft	5138.00ft	2.00		1
Sonic	600.00ft	5138.00ft	3.00		2
Micro	4200.00ft	5138.00ft	1.00	Ran separate of Sonic to log bot	3

LOGGING OPERATION SUMMARY

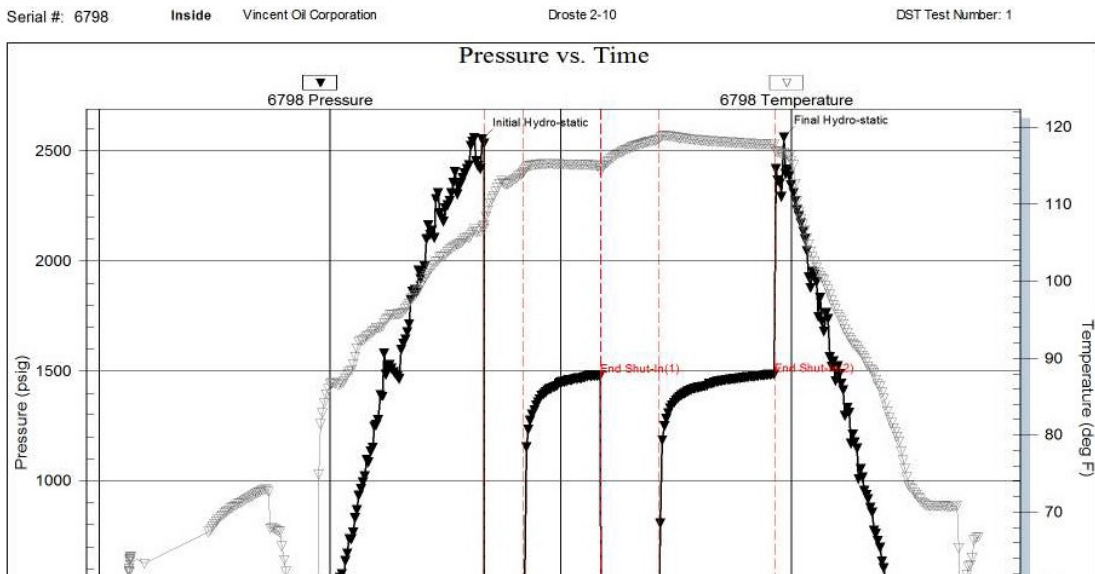
Date	From	To	Description Of Operation
5/15/2014	0.00ft	5138.00ft	Logs ran successfully

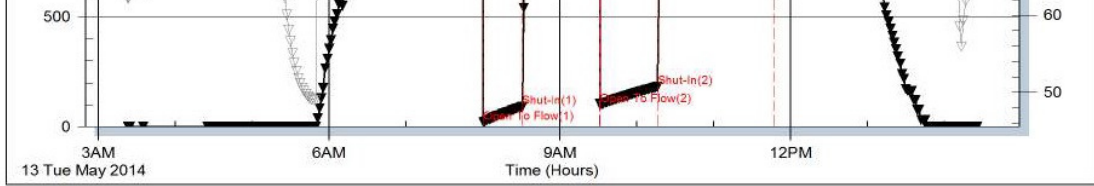
CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size	12.25 in				
Hole Size			7.88 in		
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8.625 in	646 ft	23#	18	5/7/2014 6:00 PM
Int Casing					
Prod Casing	5.5 in	5136 ft	14#	122	

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

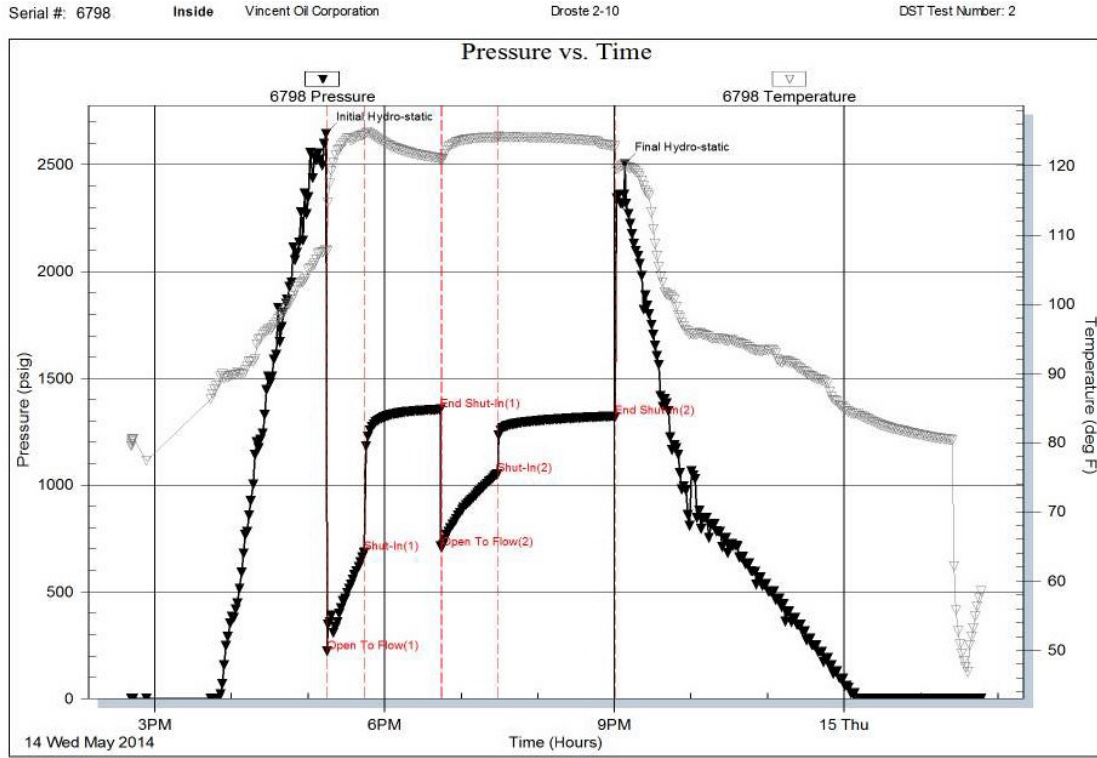




Trilobite Testing, Inc

Ref. No: 58987

Printed: 2014.05.13 @ 14:58:57



Trilobite Testing, Inc

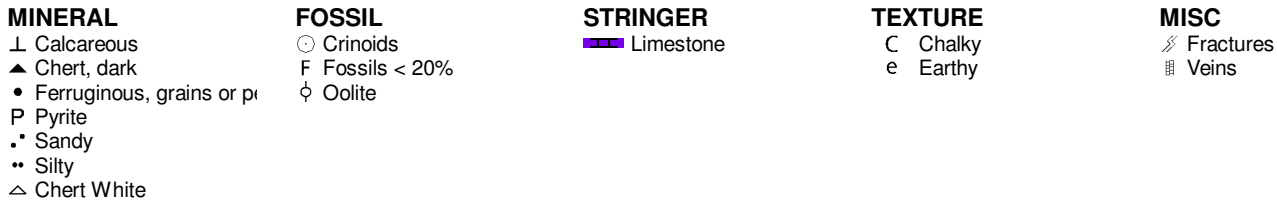
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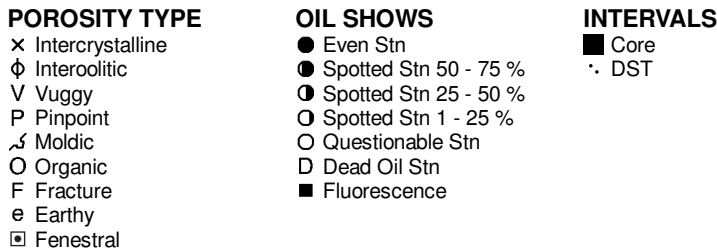
ROCK TYPES



ACCESSORIES



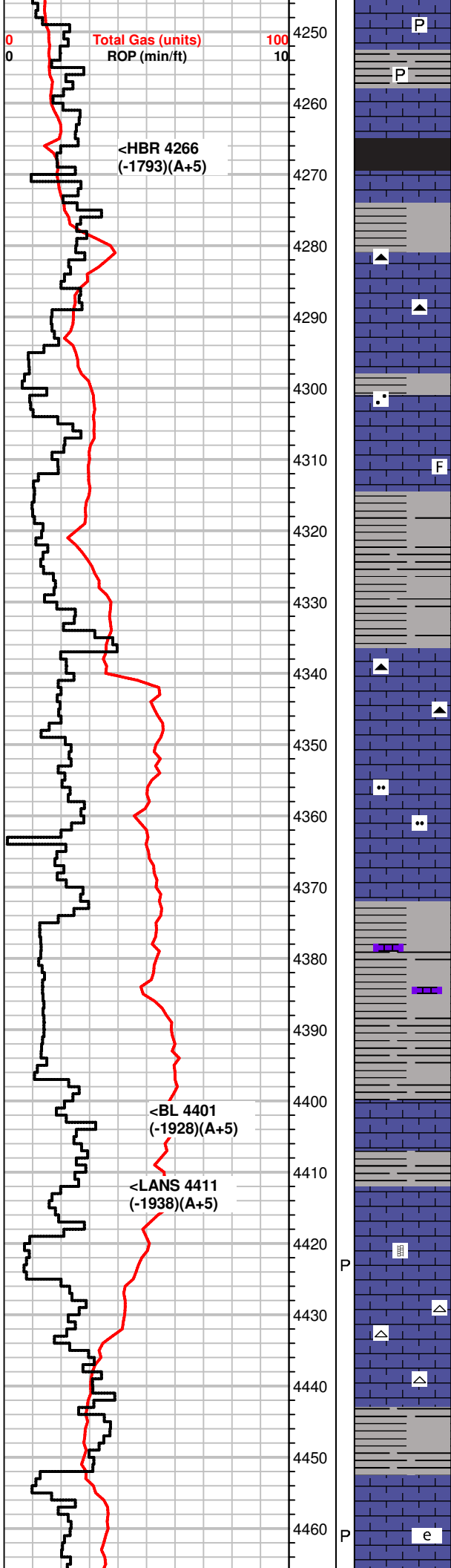
OTHER SYMBOLS



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

Curve Track #01								
Total Gas (units)	—							
ROP (min/ft)	—							
	Intervals	Types	Lithology					

	Cored Interval Depth Int DST Interval	Porosity (%)	Interpreted	Oil Shows	Geological Descriptions	Comment
1:240 Imperial Total Gas (units) ROP (min/ft)	0 100 0 10					
	4060					
	4070					
	4080				GEO ON LOCATION @ 1:00PM 5/11/2014 GAS DETECTOR by BLUESTEM LABS (BLOODHOUND UNIT)	
	4090					
	4100					
	4110					
	4120		F		MS, crm to off white, hard to firm, sparse fossils, some calcite veins	
	4130					
	4140				MS, A.A. some gray, NS	
	4150					
	4160		••	I	MS-WS, crm to gray, soft, some friable, gritty txt in part, calcite, crinoids, NS	
	4170					
	4180				MS, crm to gray, firm, dense, some friable, NS	
	4190			•	MS-WS, tan to crm, f-xln, dense, fossilif in part, sandy txt, calcite Some SH, gray	
	4200		F			
	4210					
	4220		△	△	MS-WS, tan to crm, some lt. gray, f-xln, firm, some pcs w/ co calcite pcs Chert, white	
	4230		△			
	4240				WS-MS, crm to tan, some gray A.A., rare fossils, some w/ oolitic txt.	



Some Sh, gray, green, pyrite

P

P

MS, crm to tan, vf-xln, dense, earthy in part

SH, blk, gray

MS, crm to tan, f-xln, some gray, dense, hard, fossils, few pcs tan w/ gray chert on edges, calcite pcs, Chert, gray
 Some SH, gray, green

▲

▲

MS, crm to tan, f-xln, firm, NS

■

SH, gray, green, sandy/silty in part

MS, crm to gray, some tan, f-xln, firm to hard, fossilif in part.

F

SH, blk to gray, some green

▲

MS, crm to gray, f-xln, hard, fusulinids, brachs, Chert, gray

▲

MS-WS, crm to tan, m-xln, gritty txt, firm to hard, dense, NS, some gray, silty txt in MS

■

■

MS, crm to tan, earthy, dense, hard, some chalky pcs, mottled in part, NS

SH, gray, green, some red

MS, brn, f-xln, hard, dense,

Sh, gray to brn

MS, crm f-xln, firm to hard, NS

P

MS, crm, A.A., calcite veins, NS

▲

▲

MS, crm to gray, micro oolitic, glauc specs, firm to hard pcs, NS
 Chert, white

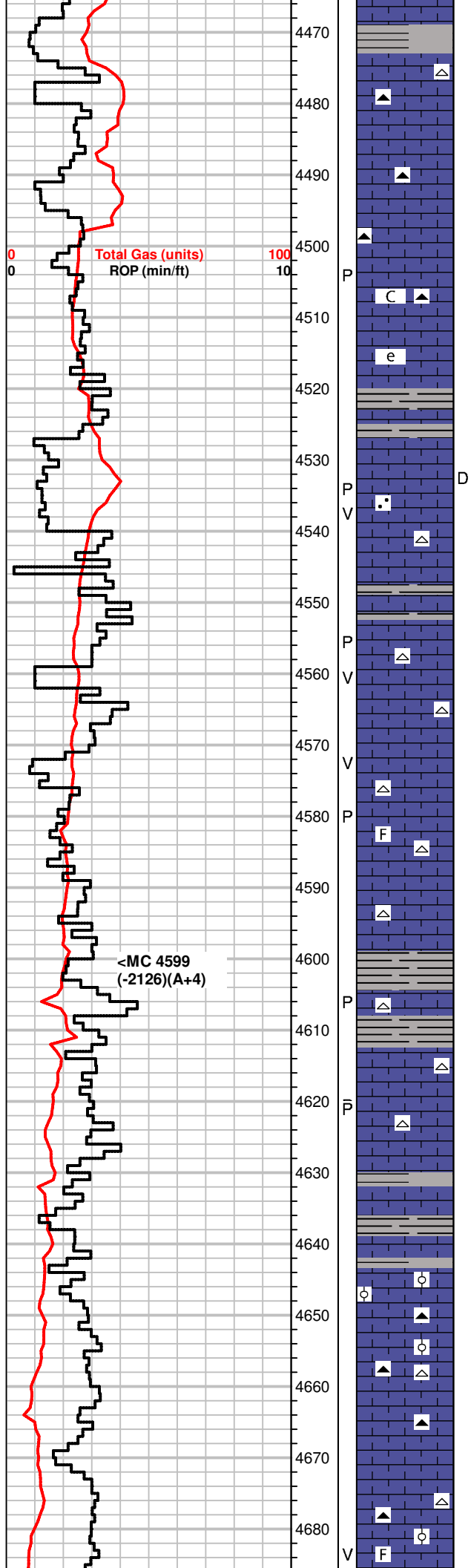
▲

SH, gray, brn, rare blk

P

e

MS, gray to crm, f-xln, earthy crm pcs, dense, NS



MS, crm, some gray, f-xln, some mottled pcs scatt., hard dense, rare fossilif pcs, Chert, opaque

MS-WS, crm to lt. brn, mottled pcs, gritty txt, firm, friable pcs, rare fossils, sub oolitic brn pcs
Chert, brn

MS, crm to gray, f to m-xln, earthy/chalky txt in part, soft, hard crm pcs, dense, fossilif (micro oolitic in part)
SH, gray, green

MS, influx gray, crm gritty/ sandy txt, hard, scatt dead brn stn, Chert, tan

MS, crm to tl. tan, mic to f-xln, dense, fossilif, rare calcite veins, partly oolitic, Chert, tan, white

MS, crm to lt. tan, mic to f-xln, dense, some fossils, influx in crm pcs, chalky pcs scatt, Chert, white some edges weathered, gray, micro oolitic pcs

SH, rare blk, gray

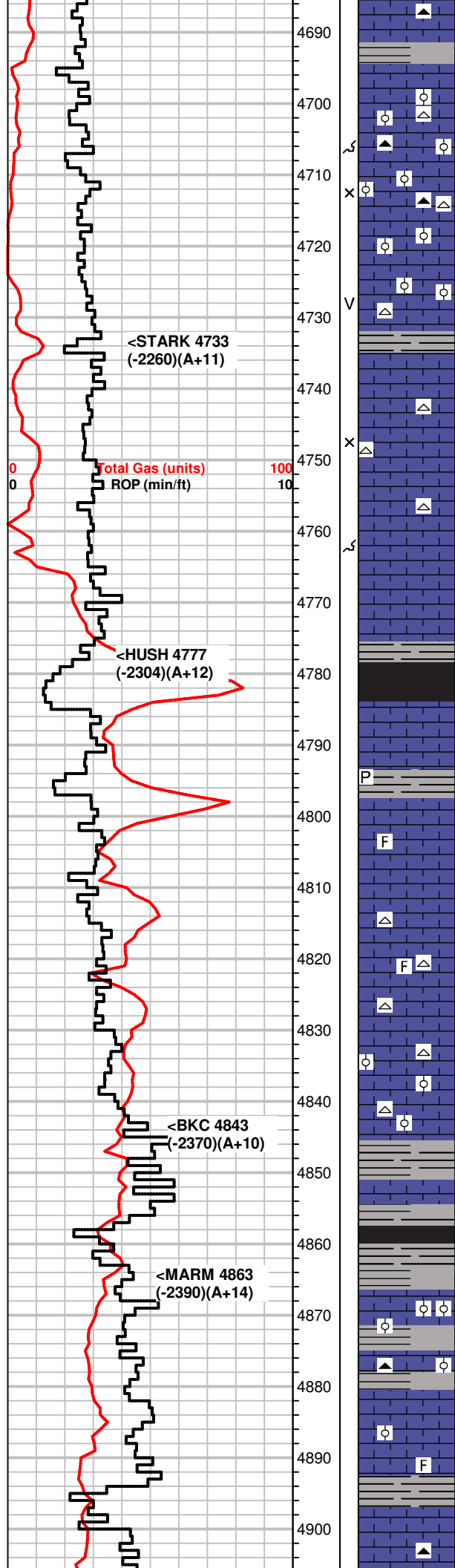
MS, crm, tan, gray, f to m-xln, hard, some pyrite, scatt. fossils. rare Chert, white
Some SH, gray

MS, gray to crm, f-xln, dense, NS, Chert, white
SH, gray, rare blk,

MS, crm to off white, earthy, some chalky pcs, scatt brn, suboolitic pcs, hard, NS
Chert, gray

MS, crm to gray, f-xln, dense, hard, barren, NS
Chert, brn, white

MS, crm to lt. gray, mic to f-xln, hard to frim, some fossils, calcite veins, scatt chalky pcs



Chert, white, gray

MS-WS, crm to lt. gray, f-xln, dense, some pcs w/ calcite nodules, rare brn oolitic pcs, m-gr ooids, Chert, white, gray

MS, crm to lt. gray, firm to hrad, some sli chalky, rare oolitic pcs, brn, m-gr ooids
Chert, white, gray

SH, gray, green, some silty pcs

SH, gray, green

MS, crm, f-xln, some earthy txt, cahly pcs throughout, rare gray MS, hard, crinoids, Chert, white,

MS, crm to scatt lt. brn, f-xln, firm to hard, dense, mineral fluor, NS

SH, blk, gray, green, some gas bubbles

SH, gray, rare blk, pyrite

MS, crm to brn, some gray, f-xln, hard, rare mottled pcs w/ fossils, NS

MS, crm to brn, f-xln, fossilif, oolitic in part, sli chalky pcs scatt. Chert, white

MS, crm, earthy, silty pcs throughout, scatt gray f-xln pcs, some silty, rare micro oolitic, Chert, white

SH, dk. gray

SH, blk, gray, some silty and striated pcs

MS-WS, crm to tan, f-xln some pcs oolitic in part, fossilif., hard, rare friable
Chert, brn, fossilif.

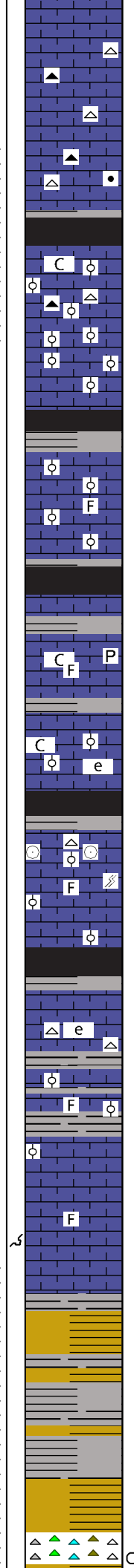
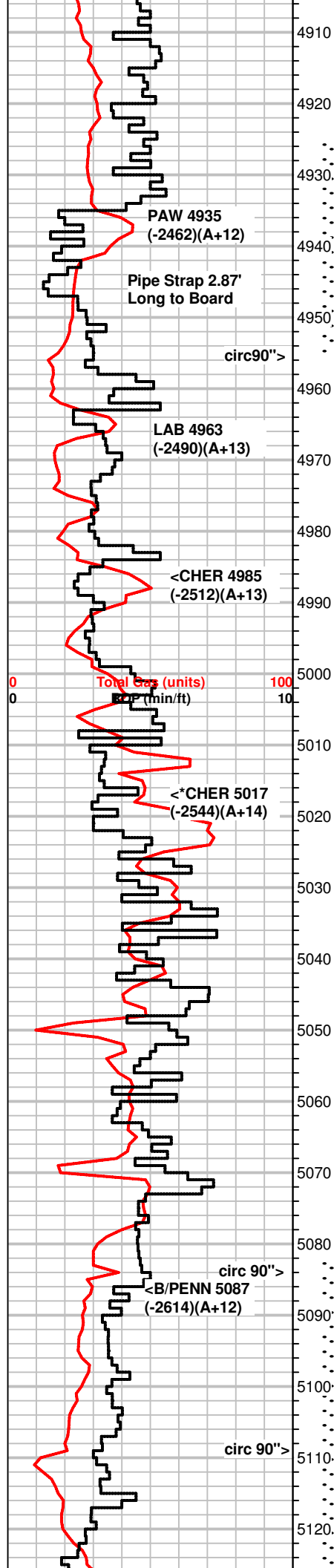
MS, crm chalky to f-xln, some dense, rare fossilif pcs, NS

SH, blk, gray, pyrite
MS, srm to brn, some gray, f-xln, hard, rare mottled pcs w/ fossils, barren, NS

+8 UGK, shale gas

+60 UGK, shale gas, 42 unit recycle

DST #1 4925'-4955'
30-60-45-90
WB, BOB/29"
NBB
WB BUILT TO 8 IN
NBB
REC:
20' SMCW



MS, crm to lt. tan, f-xln, firm, some fossils,
Chert, white, gray, fossilif.
Some SH, brn, gray

MS, gray to crm, f-xln, firm to hard, dense, NS
SH, gray, brn,

MS, crm, some chalky, mottled pcs, black specs, some sub oolitic pcs, Chert, white

SH, blk, gray, green,

MS-WS, crm, f-xln, some chalky, oolitic, m-gr., some dense, no odor, mineral fluor, NS
Chert, gray, tan, fossilif.

MS, crm to brn, f-xln to dense, some chalky, some m-gr oolitic w/ lt. edge stn in dry.

SH, blk, gray, some greenish

MS, crm to tan, f-xln to earthy, firm, some chalky pcs, rare fossilif/oolitic pcs, lt. edge stn in dry
Chert, white, fossilif, gray

SH, blk, carbonaceous, dk, gray, lt. green

MS, brn, m-xln, dense, some gray to crm pcs, f-xln, silty, NS

MS-WS, crm to tan, chalky txt to f-xln, firm to hard, pyrite, fossilif, NS
Some SH, blk, dk. gray

Sh, gray
MS, crm to gray, some earthy/chalky txt, fossilif, rare dense sub oolitic pcs, NS

SH, gray, green, rare blk pcs
MS, crm to brn, f-xln, firm to hard, fossilif in part(crinoids), some fracturing, Chert, tan

SH, blk, gray,
MS, crm to lt. gray, fossilif, some brn pcs, A.A., NS

MS, crm to gray, to brn, f-xln, A.A., fossils(brachs), dense, NS
SH, rare blk, gray

SH, dk. gray, to gray
MS, crm, f-xln to earthy, flash odor in bag, no stn no fluor,
Chert, white

SH, green, gray

MS, crm to brn, f to m-xln, hard to firm, oolitic pcs, m-gr ooids, dense, some fossils, NS
Some SH, gray to green

MS, crm to brn, A.A., rare oolitic pcs, barren, NS

MS, crm to some brn, f-xln, firm to hard, rare calcite veins, some fossils, no fluor, no odor, NS

MS, crm to brn, f-xln, hard, dense, fossils in brn pcs
Chert, white

SH, blk, gray, mustard yellow, varicolored

SH, varicolored, scatt SS clusters, f-gr, sorted, sub angular, magnetite specs, NS

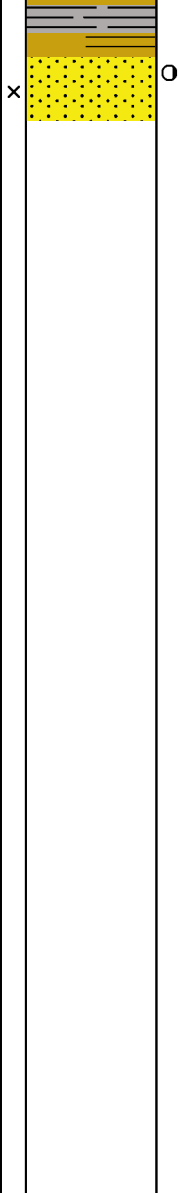
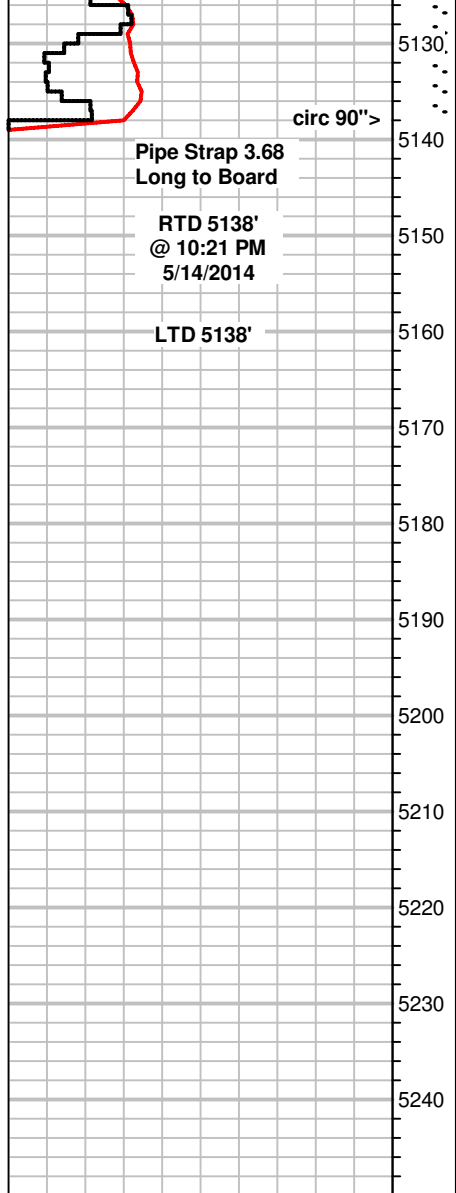
SH, varicolored A.A., rare (1pc) SS cluster

SH, varicolored, scatt chert, white, greenish white to gray, some tripolitic, rare spotty bright fluor, no odor, no cut

30' SMCW
315' WATER
IFP 21-92#
ISIP 1482#
FFP 100-182#
FSIP 1486#
Rw .12 @ 65°F
CL 75,000

+13 UGK, shale gas

DST #2 5082'-5138'
30-60-45-90
SB BOB/90 sec
4IN BB
SB BOB 90 sec GTS/25"
TSTM
NBB
REC:
2350' GIP
199' GMWCO (20g,
60o,10w,10m)
630' GSY OIL (20g,80o)
1764' GWCO
(10g,80o,10w)
126' WATER
IFP 222-684#
ISIP 1352#
FFP 705-1050#
FSIP 1319
#Rw .13 @ 63°F
CL 75,000
29.8 API Gravity



Flood Chert, white to clear, some oolitic w/ gray ooids, some yellowish white
SS clusters, co-gr, rounded, sorted, spotty fluor in pore spaces, strong odor in bag, slow milky cut

Gas Increase, 10-12 Units, continuous over the drilling break