Confidentiality Requested:
☑ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1232437

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 # 5004
Name: Vincent Oil Corporation
Address 1: 155 N MARKET STE 700
Address 2:
City: WICHITA State: KS Zip: 67202 + 1821
Contact Person: M.L. Korphage
Phone: (316) 262-3573
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Tom Dudgeon
Purchaser: DCP Midstream

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 #:

7/21/2014	8/1/2014	9/4/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-057-20937-00-00
Spot Description:
NW SE NE NE Sec. 8 Twp. 28 S. R. 23 ☐ East ☑ West
870 Feet from ☑ North / ☐ South Line of Section
335 Feet from ☑ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW

GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ford
Lease Name: Zimmerman Well #: 2-8
Field Name: Sanko NE
Producing Formation: Mississippian
Elevation: Ground: 2481 Kelly Bushing: 2493
Total Vertical Depth: 5219 Plug Back Total Depth: 5215
Amount of Surface Pipe Set and Cemented at: 646 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: 13700 ppm Fluid volume: 1100 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Edison Operationg Co., LLC
Lease Name: Williams #9-15 SWDW License #: 34434
Quarter SE Sec. 9 Twp. 29 S. R. 22 ☐ East ☑ West
County: Ford Permit #: D 31354

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: 11/18/2014
☑ **Confidential Release Date:** 11/21/2016
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 11/19/2014

[redacted] 1232437

Operator Name: Vincent Oil Corporation Lease Name: Zimmerman Well #: 2-8

Sec. 8 Twp. 28 S. R. 23 ☐ East ☑ West County: Ford

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 (Attach Additional Sheets)	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No

List All E. Logs Run: Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface Casing	12.25	8.6250	23	646	65/35 POZ & Class A	285	0-6% Gel, 3% CC & 1/4 # Flo-seal/sx
Production Casing	7.8750	4.5	11.6	5215	ASC	175	5# Kol-seal/sx

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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 *(Amount and Kind of Material Used)*	Depth
4	5104' to 5114'	Ran tubing, SDFN; Acidized with 1500 gal 15% MCA;	
		swab load w/ tr oil, SDFN; open tubing , KOF, flow stroing blow gas w/ 1 BW, SI;	
		Set surf equip, connect to pipeline; IP: 115 MCFG + 15 BWPD	

TUBING RECORD: Size: 2.3750 Set At: 5125 Packer At: Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR: 9/4/2014

Producing Method: ☑ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		115	15		

DISPOSITION OF GAS: ☐ Vented ☑ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL: 5104' to 5114'

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Zimmerman 2-8
Doc ID	1232437

All Electric Logs Run

Dual Induction
Density - Neutron
Micro-log
Sonic

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Zimmerman 2-8
Doc ID	1232437

Tops

Name	Top	Datum
Heebner Shale	4253	(-1760)
Brown Limestone	4384	(-1889)
Lansing	4392	(-1899)
Stark Shale	4700	(-2207)
Pawnee	4917	(-2424)
Cherokee Shale	4968	(-2475)
Base Penn Limestone	5068	(-2575)
Mississippian	5088	(-2595)
RTD	5219	(-2726)

Form	ACO1 - Well Completion
Operator	Vincent Oil Corporation
Well Name	Zimmerman 2-8
Doc ID	1232437

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface Casing	12.25	8.6250	23	646	65/35 POZ & Class A	285	0-6% Gel, 3% CC & 1/4 # Flo-seal/sx
Production Casing	7.8750	4.5	11.6	5215	ASC	175	5# Kol-seal/sx

ALLIED OIL & GAS SERVICES, LLC 062844

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
Medicine Lodge KS

DATE 7-22-14	SEC 8	TWP. 28S	RANGE 23W	CALLED OUT 230 AM	ON LOCATION 630 AM	JOB START 813 AM	JOB FINISH 900 AM
LEASE Zimmerman	WELL # 2-8		LOCATION Ford KS, North to Saddle Rd, 5mi West to Rd 120, South 1mi, West into			COUNTY Ford	STATE KS
OLD OR (NEW) (Circle one)							

CONTRACTOR Duke 1
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 647
CASING SIZE 8 3/8 DEPTH 648
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 500 MINIMUM
MEAS. LINE SHOE JOINT 42
CEMENT LEFT IN CSG. 42
PERFS.
DISPLACEMENT 39 BBL Fresh H2O

OWNER Vincent Oil

EQUIPMENT

PUMP TRUCK CEMENTER Jim Thiessen
894/265 HELPER Robert Johnson
BULK TRUCK
421/290 DRIVER Ken Jack
BULK TRUCK
DRIVER

REMARKS:

Did circ cement

CHARGE TO: Vincent Oil
STREET
CITY STATE ZIP

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Mike Godfrey
SIGNATURE Mike Godfrey

CEMENT

AMOUNT ORDERED 185sx 65:35:6%Gel + 3%cc + 1/4#Flosel, 100sx Class A+3%cc

COMMON A	100 sx	@ 17.90	1790.00
POZMIX		@	
GEL		@	
CHLORIDE	282#	@ 1.10	310.20
ASC		@	
ALW	185 sx	@ 19.88	3677.80
Floseal	47#	@ 2.97	139.59
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING		@	
MILEAGE			

33% = 1952.80 TOTAL 5917.59

SERVICE

DEPTH OF JOB 648
PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE	35	@ 4.40	154.00
MILEAGE	35	@ 7.70	269.50
MANIFOLD		@	275.00
Handling	319.32	@ 2.48	791.92
mileage	477.26	@ 2.75	1312.46

33% = 1423.99 TOTAL 4315.13

PLUG & FLOAT EQUIPMENT

8 5/8

Baffle Plate		@	146.00
Rubber Plug		@	131.00
		@	
		@	
		@	

33% = 91.41 TOTAL 277.00

SALES TAX (If Any)
TOTAL CHARGES 10,509.72
DISCOUNT IF PAID IN 30 DAYS
Net 7041.54

ALLIED OIL & GAS SERVICES, LLC 062850

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Medicine Lodge KS

DATE 8-1-14	SEC. 8	TWP. 28	RANGE 23	CALLED OUT 700AM	ON LOCATION 1100AM	JOB START 145PM	JOB FINISH 230PM
LEASE Zimmerman	WELL # 2-8		LOCATION Ford KS, North to Saddle Rd, West			COUNTY Ford	STATE KS
OLD OR (NEW) (Circle one)			to Rd 120, 1/4 mi South, West into				

CONTRACTOR Duke #1
TYPE OF JOB Production
HOLE SIZE 7 7/8 T.D. 5220
CASING SIZE 4 1/2 DEPTH 5215
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX 1300 MINIMUM
MEAS. LINE SHOE JOINT 44
CEMENT LEFT IN CSG. 44
PERFS.
DISPLACEMENT 80 BBLs Fresh H2O + 2% KCL

OWNER Vincent Oil

EQUIPMENT

PUMP TRUCK # 471/302 CEMENTER Jason Thiocah
HELPER Ron Gilley
BULK TRUCK #544/198 DRIVER Robert Johnson
BULK TRUCK # DRIVER

REMARKS:

CEMENT

AMOUNT ORDERED 175sx Class A ASC + 5# Kolseal + .5% FL-160, 60:40:4% Gel, 12 BBLs ASF, gals KCL Flo-Blok

COMMON		@		
POZMIX		@		
GEL		@		
CHLORIDE		@		
ASC	175 sx	@	23.50	4112.50
60:40:4	50 sx	@	18.43	921.50
KOLSEAL	375 #	@	.99	457.50
FL-160	82 #	@	18.90	1549.80
Flo-Blok	25 #	@	13.00	450.00
ASF	12 Gals	@	58.10	704.40
Clayco	2 Gals	@	34.80	309.60
		@		
		@		
HANDLING		@		
MILEAGE				

20% = 2493.48 TOTAL 8905.30

SERVICE

DEPTH OF JOB 5215			
PUMP TRUCK CHARGE			3099.25
EXTRA FOOTAGE	50 @	4.40	220.00
MILEAGE	50 @	7.70	385.00
MANIFOLD	@		275.00
Handling	286.81 @	2.48	711.23
Mileage	100/50/2.75 @	2.75	2482.50

20% = 2,007.88 TOTAL 7171.03

PLUG & FLOAT EQUIPMENT

4 1/2

centralizers	6 @	57.00	342.00
AFU insert	1 @		325.00
Reg Guide Shoe	1 @		225.00
Rubber Plug	1 @		83.00
	@		

20% = 273.00 TOTAL 975.00

CHARGE TO: Vincent Oil
STREET
CITY STATE ZIP

SALES TAX (If Any)
TOTAL CHARGES 17,051.33
DISCOUNT IF PAID IN 30 DAYS

Net 12,276.96

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Pat Livingston
SIGNATURE Pat Livingston

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51814 **DST#: 1**

Test Start: 2014.07.27 @ 22:33:21

GENERAL INFORMATION:

Formation: **Pawnee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:23:06
Time Test Ended: 08:37:21

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74

Interval: 4905.00 ft (KB) To 4935.00 ft (KB) (TVD)
Total Depth: 4935.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

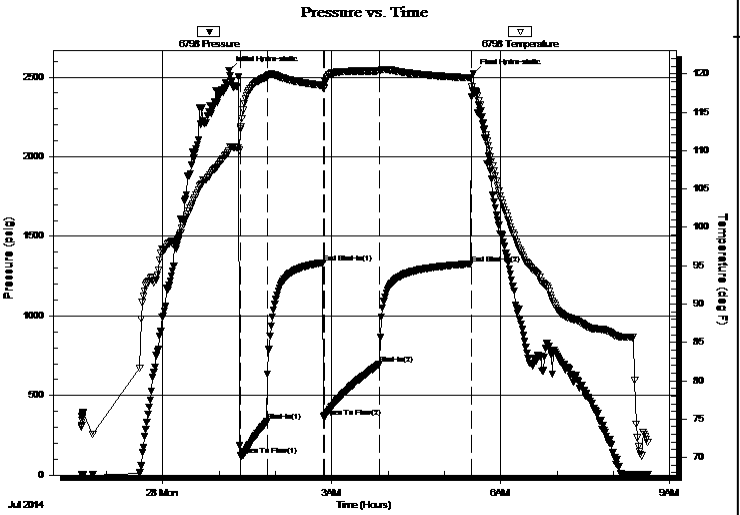
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 696.70 psig @ 4906.00 ft (KB)
Start Date: 2014.07.27 End Date: 2014.07.28
Start Time: 22:33:22 End Time: 08:37:21

Capacity: 8000.00 psig
Last Calib.: 2014.07.28
Time On Btm: 2014.07.28 @ 01:10:21
Time Off Btm: 2014.07.28 @ 05:30:51

TEST COMMENT: IF: Strong Blow , BOB in 90 seconds
ISI: 3 inch Blow Back
FF: Strong Blow , BOB in 4 minutes
FSI: 4 inch Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2542.87	109.93	Initial Hydro-static
13	121.79	113.07	Open To Flow (1)
41	337.24	119.58	Shut-In(1)
101	1334.56	118.49	End Shut-In(1)
102	366.39	118.19	Open To Flow (2)
161	696.70	120.38	Shut-In(2)
258	1327.16	119.46	End Shut-In(2)
261	2524.31	117.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 2294	0.00
1147.00	Water	16.09
124.00	GMOCW 20%G 10%O 14%M 56%W	1.74
155.00	GOMCW 30%G 20%O 20%M 30%W	2.17

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51814 **DST#: 1**

Test Start: 2014.07.27 @ 22:33:21

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:	71000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.79 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 2294	0.000
1147.00	Water	16.089
124.00	GMOCW 20%G 10%O 14%M 56%W	1.739
155.00	GOMCW 30%G 20%O 20%M 30%W	2.174

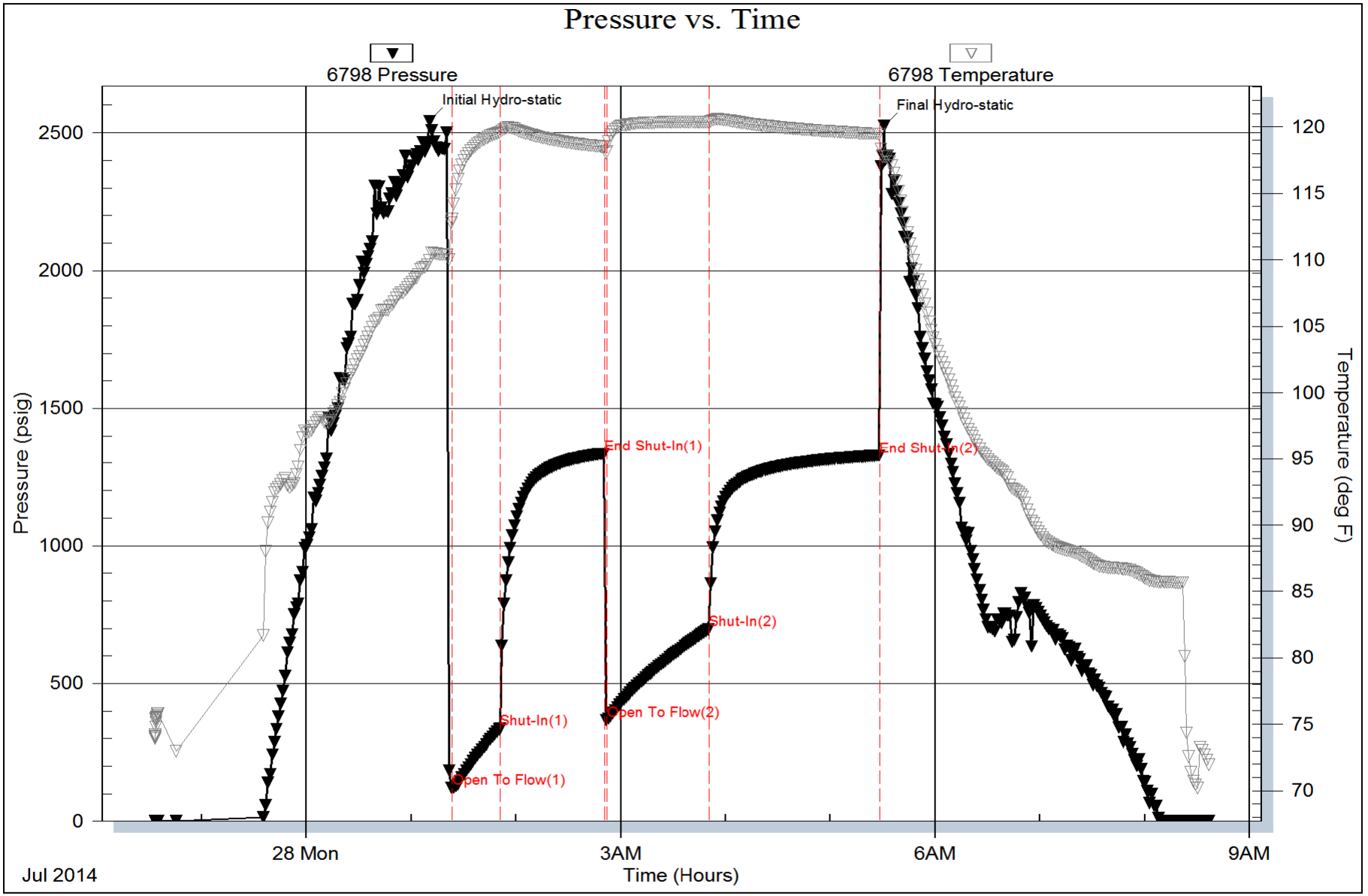
Total Length: 1426.00 ft Total Volume: 20.002 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .11 @ 70 degrees

Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman 2-8 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 51814 Printed: 2014.07.28 @ 08:54:30

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51816 **DST#: 2**

Test Start: 2014.07.29 @ 06:05:15

GENERAL INFORMATION:

Formation: **Penn Lime**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:33:30
Time Test Ended: 15:03:45

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5014.00 ft (KB) To 5100.00 ft (KB) (TVD)
Total Depth: 5100.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

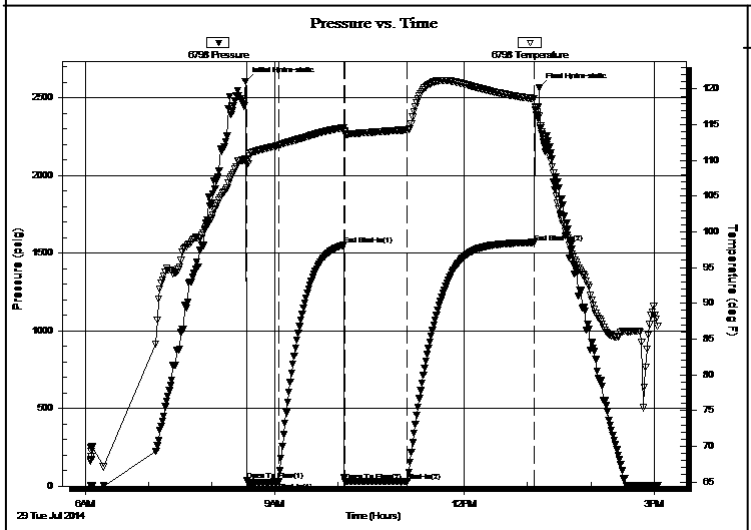
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 30.74 psig @ 5015.00 ft (KB)
Start Date: 2014.07.29 End Date: 2014.07.29
Start Time: 06:05:16 End Time: 15:03:45

Capacity: 8000.00 psig
Last Calib.: 2014.07.29
Time On Btm: 2014.07.29 @ 08:32:15
Time Off Btm: 2014.07.29 @ 13:11:00

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
ISI: No Blow Back
FF: Strong Blow , BOB in 30 seconds, GTS in 14 minutes, TSTM, Caught Sample
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2607.80	110.18	Initial Hydro-static
2	34.50	109.45	Open To Flow (1)
32	26.87	112.10	Shut-In(1)
94	1551.96	114.56	End Shut-In(1)
95	31.88	113.95	Open To Flow (2)
154	30.74	114.31	Shut-In(2)
274	1569.92	118.66	End Shut-In(2)
279	2564.35	116.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4957 GIP	0.00
50.00	GCM 10%G 90%M	0.70

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51816 **DST#: 2**

Test Start: 2014.07.29 @ 06:05:15

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

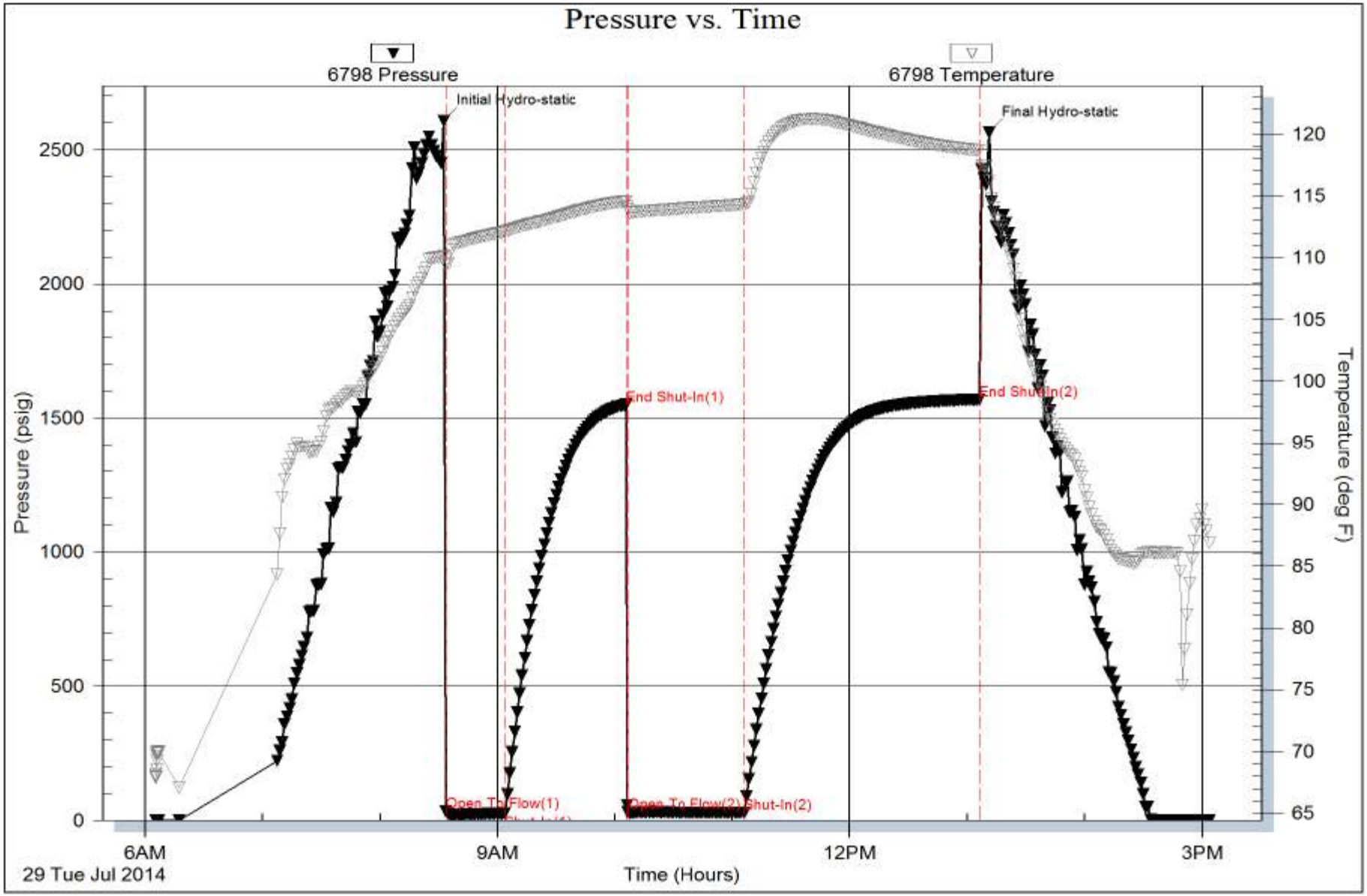
Recovery Table

Length ft	Description	Volume bbl
0.00	4957 GIP	0.000
50.00	GCM 10%G 90%M	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman 2-8 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 51816 Printed: 2014.07.29 @ 15:45:02

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51817 **DST#: 3**

Test Start: 2014.07.29 @ 23:28:19

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 02:32:49
Time Test Ended: 09:23:49

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5099.00 ft (KB) To 5111.00 ft (KB) (TVD)
Total Depth: 5111.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

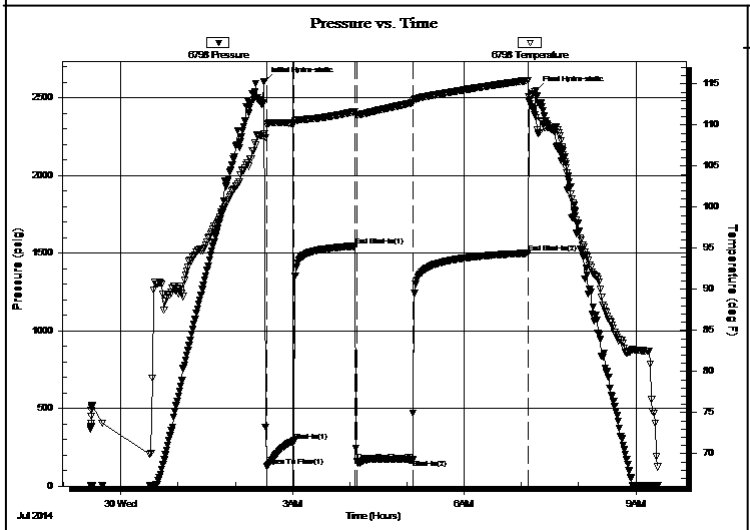
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 169.86 psig @ 5100.00 ft (KB)
Start Date: 2014.07.29 End Date: 2014.07.30
Start Time: 23:28:20 End Time: 09:23:49

Capacity: 8000.00 psig
Last Calib.: 2014.07.30
Time On Btm: 2014.07.30 @ 02:30:19
Time Off Btm: 2014.07.30 @ 07:15:19

TEST COMMENT: IF: Strong Blow , BOB in 10 seconds, GTS in 6 minutes, Gauged & Caught Sample
ISI: Would Not Bleed Off
FF: Strong Blow , BOB & GTS immediate, Gauged Gas
FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2605.86	108.95	Initial Hydro-static
3	128.53	110.05	Open To Flow (1)
32	291.38	110.24	Shut-In(1)
96	1545.25	111.65	End Shut-In(1)
98	158.00	111.29	Open To Flow (2)
156	169.86	112.71	Shut-In(2)
277	1499.61	115.44	End Shut-In(2)
285	2546.58	110.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	GTS	0.00
30.00	GCM 5%G 95%M	0.42

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	100.00	181.49
Last Gas Rate	0.50	66.00	542.35
Max. Gas Rate	0.25	200.00	340.13

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51817 **DST#: 3**

Test Start: 2014.07.29 @ 23:28:19

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GTS	0.000
30.00	GCM 5%G 95%M	0.421

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:

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51817 **DST#: 3**

Test Start: 2014.07.29 @ 23:28:19

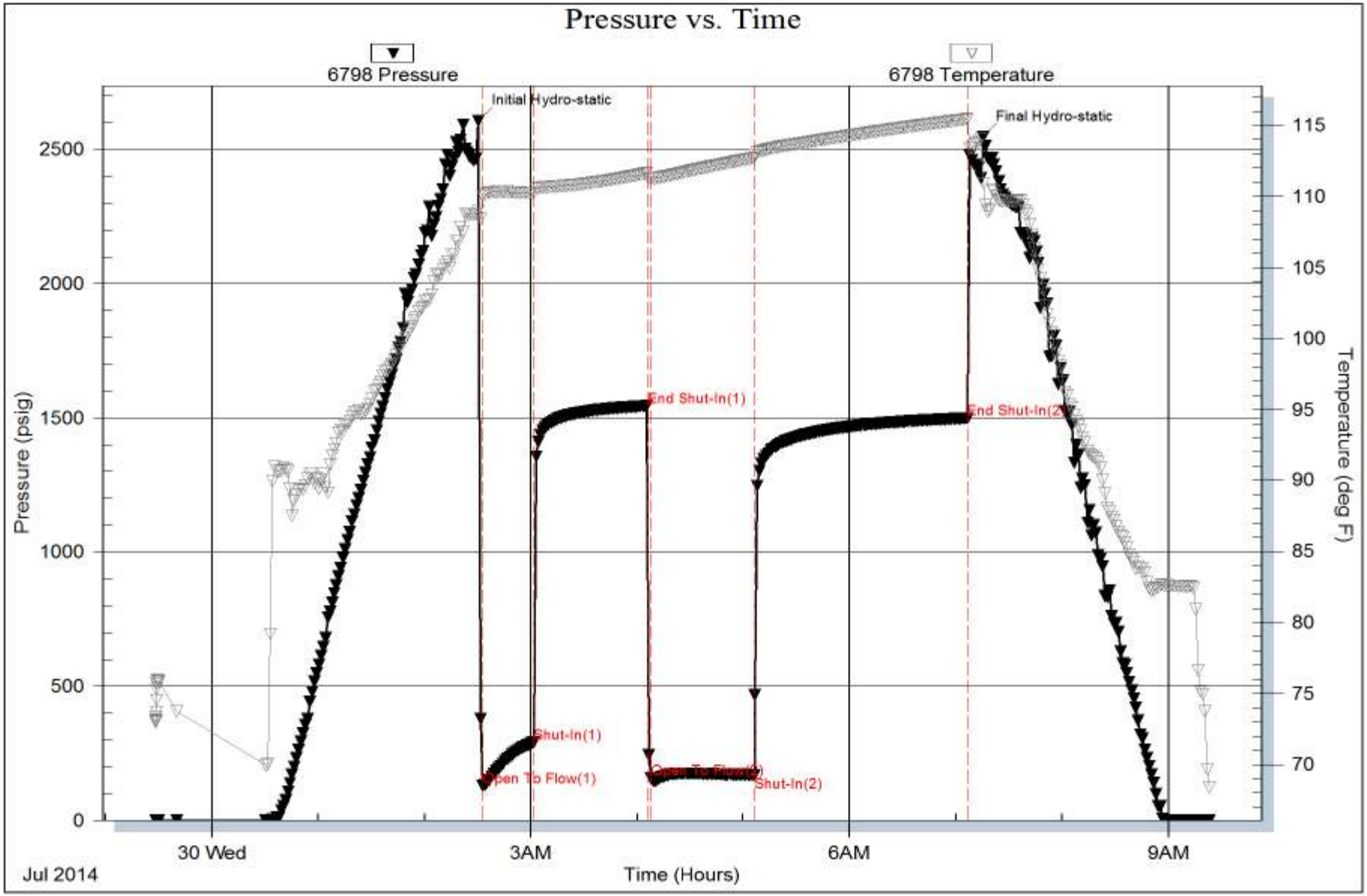
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	10	0.25	100.00	181.49
1	20	0.25	175.00	300.46
1	30	0.25	200.00	340.13
2	10	0.50	58.00	488.39
2	20	0.50	66.00	542.35
2	30	0.50	68.00	555.85
2	40	0.50	66.00	542.35
2	50	0.50	66.00	542.35
2	60	0.50	66.00	542.35

Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman 2-8 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 51817 Printed: 2014.07.30 @ 09:47:42

DRILL STEM TEST REPORT

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51818 **DST#: 4**

Test Start: 2014.07.30 @ 18:20:14

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 20:18:44
Time Test Ended: 04:26:59

Test Type: Conventional Bottom Hole (Reset)
Tester: Leal Cason
Unit No: 74

Interval: 5122.00 ft (KB) To 5142.00 ft (KB) (TVD)
Total Depth: 5142.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

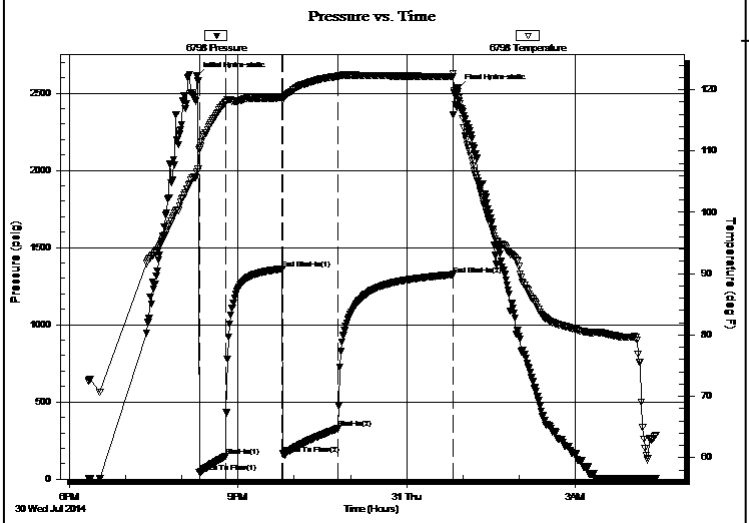
Reference Elevations: 2493.00 ft (KB)
2482.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 **Inside**

Press@RunDepth: 328.34 psig @ 5123.00 ft (KB)
Start Date: 2014.07.30 End Date: 2014.07.31
Start Time: 18:20:15 End Time: 04:26:59

Capacity: 8000.00 psig
Last Calib.: 2014.07.31
Time On Btm: 2014.07.30 @ 20:15:59
Time Off Btm: 2014.07.31 @ 00:54:29

TEST COMMENT: IF: Strong Blow , BOB in 30 seconds
ISI: GTS 8 minutes into Bleed Off , Blow Back Built to BOB in 8 minutes
FF: Strong Blow , BOB & GTS Immediate, Gauged & Caught Sample
FSI: BOB Blow Back in 10 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2609.41	106.60	Initial Hydro-static
3	45.06	110.43	Open To Flow (1)
31	149.91	117.92	Shut-In(1)
91	1361.89	118.69	End Shut-In(1)
92	163.50	118.29	Open To Flow (2)
151	328.34	122.18	Shut-In(2)
274	1324.55	122.16	End Shut-In(2)
279	2531.96	118.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4523 GIP	0.00
372.00	Water	5.22
62.00	GMCW 2%G 10%M 88%W	0.87
144.00	GOMCW 12%G 5%O 24%M 59%W	2.02

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	6.00	32.36
Max. Gas Rate	0.25	6.00	32.36

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51818 **DST#: 4**

Test Start: 2014.07.30 @ 18:20:14

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:	59000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7000.00 ppm				
Filter Cake:	0.02 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4523 GIP	0.000
372.00	Water	5.218
62.00	GMCW 2%G 10%M 88%W	0.870
144.00	GOMCW 12%G 5%O 24%M 59%W	2.020

Total Length: 578.00 ft Total Volume: 8.108 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: RW was .15 @ 60 degrees

DRILL STEM TEST REPORT

GAS RATES

Vincent Oil Corporation

155 N Market Ste 700
Wichita, KS 67202

ATTN: Tom Dudgeon

8-28S-23W Ford

Zimmerman 2-8

Job Ticket: 51818 **DST#: 4**

Test Start: 2014.07.30 @ 18:20:14

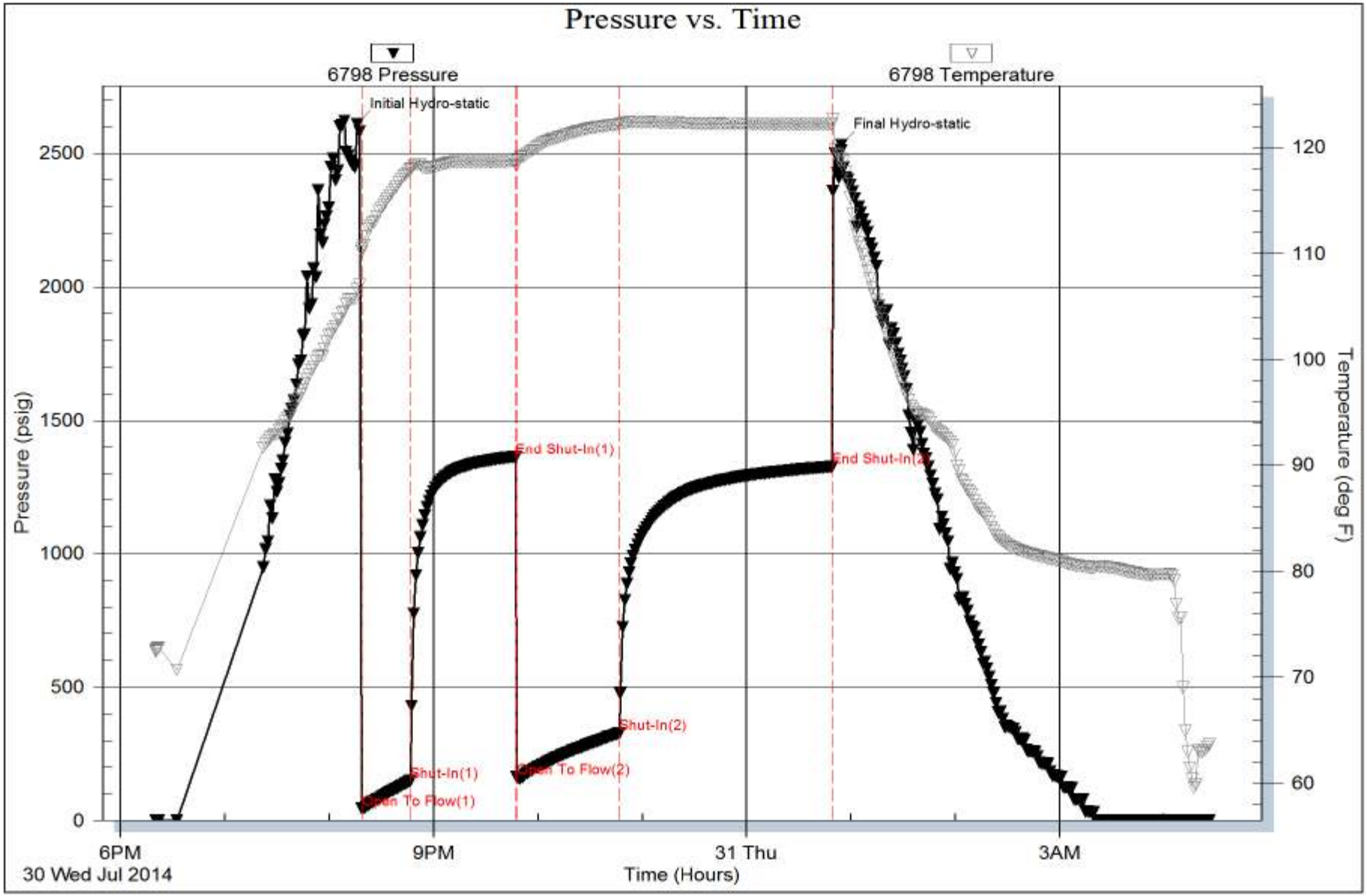
Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	5.00	30.78
2	20	0.25	5.00	30.78
2	30	0.25	6.00	32.36
2	40	0.25	6.00	32.36
2	50	0.25	6.00	32.36
2	60	0.25	6.00	32.36

Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman 2-8 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 51818 Printed: 2014.07.31 @ 08:25:39

Scale 1:240 Imperial

Well Name:	Zimmerman 2-8		
Surface Location:	8-28s-23w NW SE NE NE		
Bottom Location:			
API:	15-057-20937-00-00		
License Number:	5004		
Spud Date:	7/21/2014	Time:	7:30 PM
Region:			
Drilling Completed:	7/31/2014	Time:	12:47 PM
Surface Coordinates:	870 FNL & 335 FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2481.00ft		
K.B. Elevation:	2493.00ft		
Logged Interval:	4150.00ft	To:	5220.00ft
Total Depth:	5220.00ft		
Formation:	MISS		
Drilling Fluid Type:			

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:	Zimmerman 2-8		
Location:	8-28s-23w NW SE NE NE	API:	15-057-20937-00-00
Pool:		Field:	Sanko Northeast
State:	KS	Country:	USA

CONTRACTOR

Contractor:	Duke Drilling Co., Inc.		
Rig #:	1		
Rig Type:	Rotary		
Spud Date:	7/21/2014	Time:	7:30 PM
TD Date:	7/31/2014	Time:	12:47 PM
Rig Release:	8/4/2014	Time:	12:00 AM

LOGGED BY

Company:	Vincent Oil Corp.		
Address:	155 N Market Ste 700 Wichita, KS 67202		
Phone Nbr:	316-262-3573		
Logged By:	Geologist	Name:	Tom Dudgeon

ELEVATIONS

K.B. Elevation:	2493.00ft	Ground Elevation:	2481.00ft
K.B. to Ground:	12.00ft		

SURFACE CO-ORDINATES

Well Type:	Vertical		
Longitude:	-99.8520595	Latitude:	37.6292666
N/S Co-ord:	870 FNL		
E/W Co-ord:	335 FEL		

OPEN HOLE LOGS

Logging Company:	Nabors Completion and Production Services, Co.		
Logging Engineer:	Ian Mabb		
Truck #:	3802		
Logging Date:	7/31/2014	Time Spent:	5
# Logs Run:	4	# Logs Run Successful:	4

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
Dual Induction	0.00ft	5219.00ft	2.00		1
Comp Den/Neu	4100.00ft	5219.00ft	2.00		1
Micro	4100.00ft	5219.00ft	4.00		2
Sonic	0.00ft	5219.00ft	4.00		2

LOGGING OPERATION SUMMARY

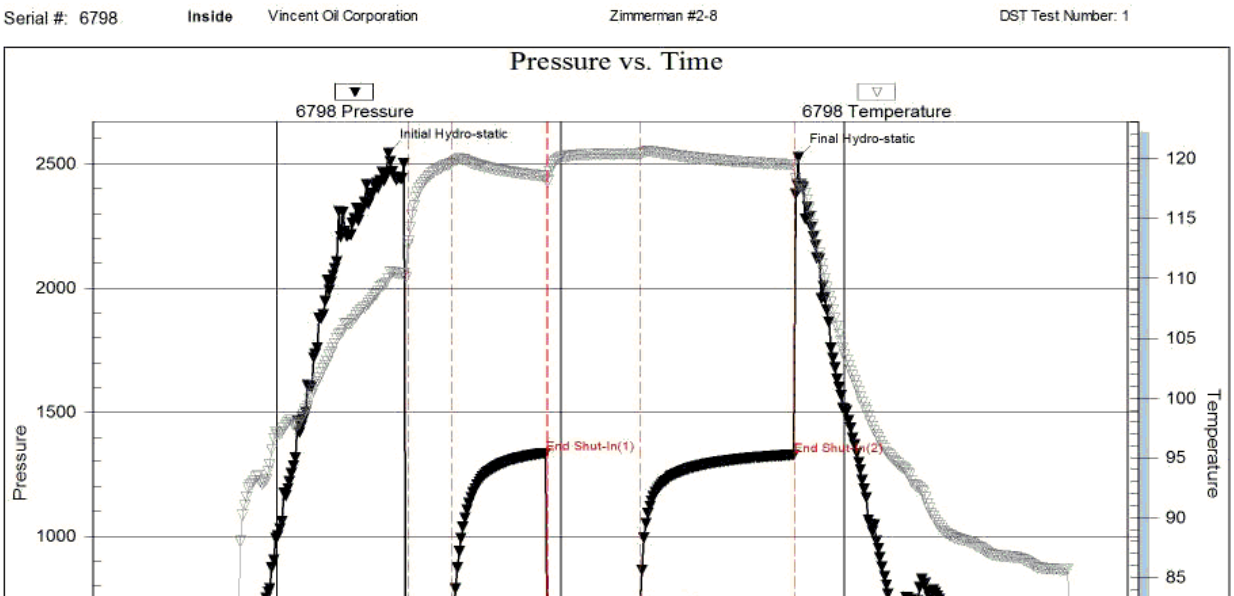
Date	From	To	Description Of Operation
8/4/2014	0.00ft	5219.00ft	Logs ran successfully

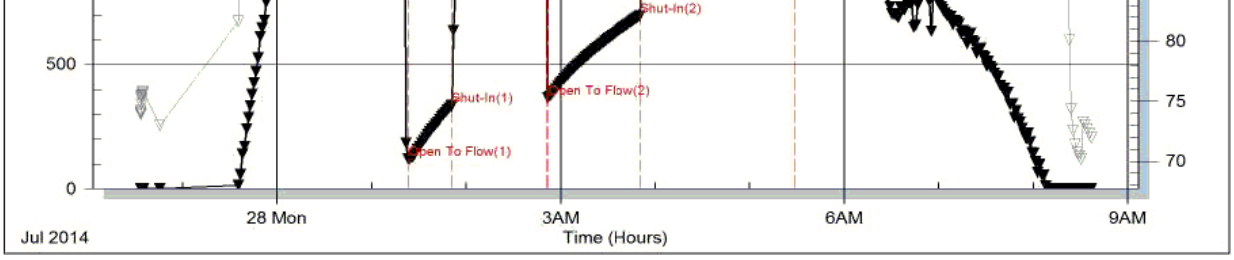
CASING SUMMARY

	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	647 ft	23#	15	12/30/1899 5:00 PM
Int Casing					
Prod Casing	4.5 in	5215 ft	11.6#	118	

CASING SEQUENCE

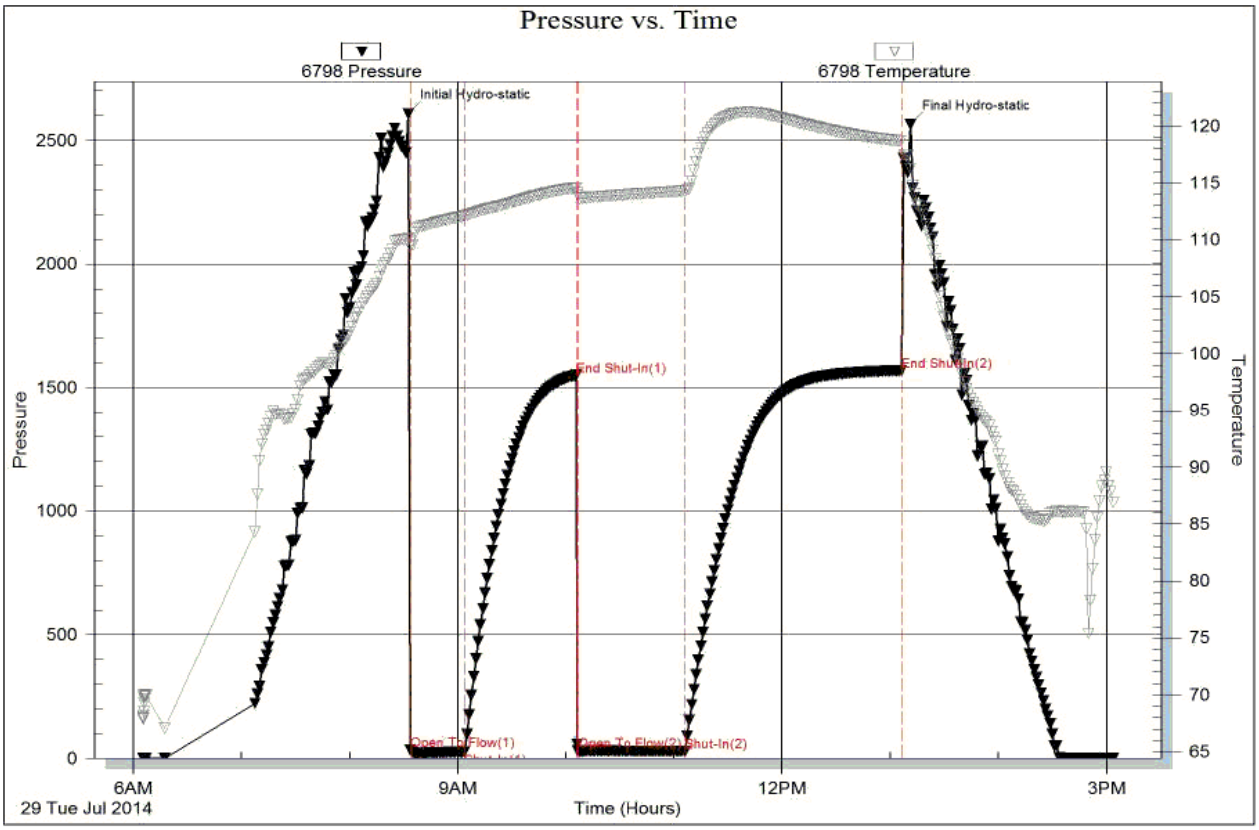
Type	Hole Size	Casing Size	At
Surface	12.25 in	8.63	647.00 ft
Production	7.88 in	4.50	5215.00 ft





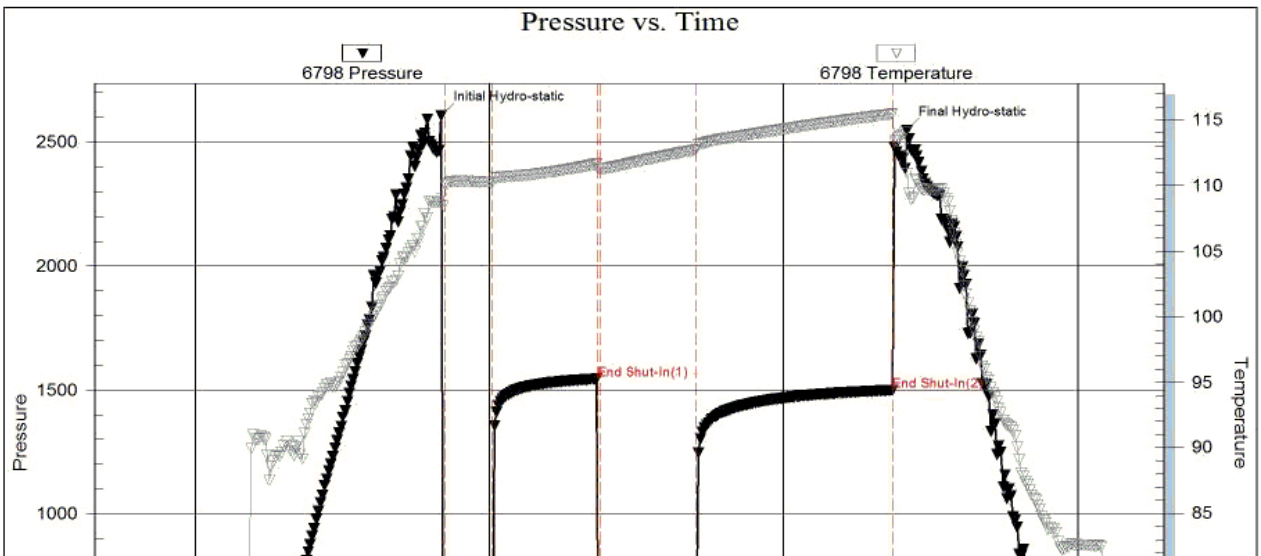
Trilobite Testing, Inc Ref. No: 51814 Printed: 2014.08.04 @ 14:07:45

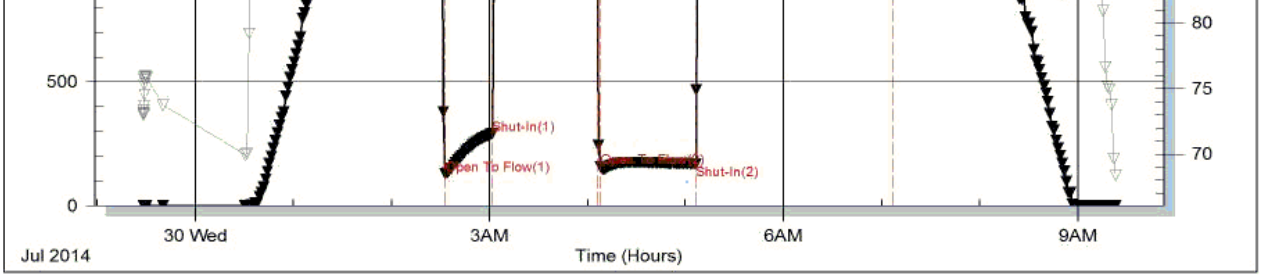
Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman #2-8 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 51816 Printed: 2014.08.04 @ 13:55:28

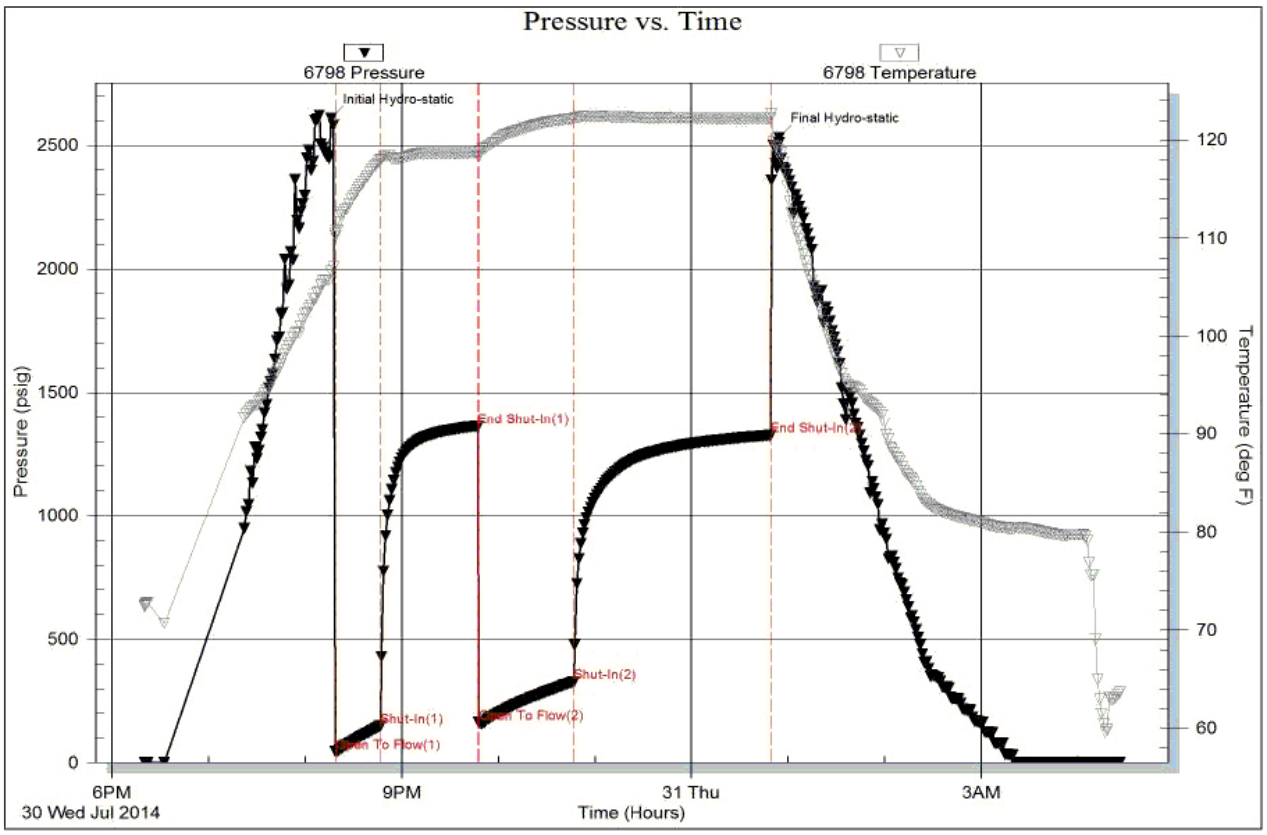
Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman #2-8 DST Test Number: 3





Trilobite Testing, Inc Ref. No: 51817 Printed: 2014.08.04 @ 13:54:56

Serial #: 6798 **Inside** Vincent Oil Corporation Zimmerman #2-8 DST Test Number: 4



Trilobite Testing, Inc Ref. No: 51818 Printed: 2014.08.04 @ 13:48:52

ROCK TYPES

Cht, Coal, Dolsec, Lmst fw<7, Lmst fw7>, Ss, Shgy, Shblck, Shcol, Dol Lime

ACCESSORIES

MINERAL
- Chert, dark
- Dolomitic
- Feldspar
- Ferruginous, grains or p
- Sandy
- Chert White

FOSSIL
- Bryozoa
- Crinoids
- Fossils < 20%
- Oolite
- Oolites

STRINGER
- Dolomite
- Shale
- Chert

TEXTURE
- C Chalky
- CX Cryptocrystalline
- e Earthy
- FX FinexIn
- MX MicroxIn

MISC
- Fractures

OTHER SYMBOLS

POROSITY TYPE
- Intercrystalline
- Interoolitic
- V Vuggy
- P Pinpoint
- Moldic

OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn

INTERVALS
- Core
- DST

O Organic
F Fracture
e Earthy
⊙ Fenestral

D Dead Oil Stn
■ Fluorescence

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

Curve Track #01
Total Gas (units)
ROP (min/ft)
1:240 Imperial

0 Total Gas (units) 100
0 ROP (min/ft) 10

Depth | Intervals
Cored Interval
DST Interval

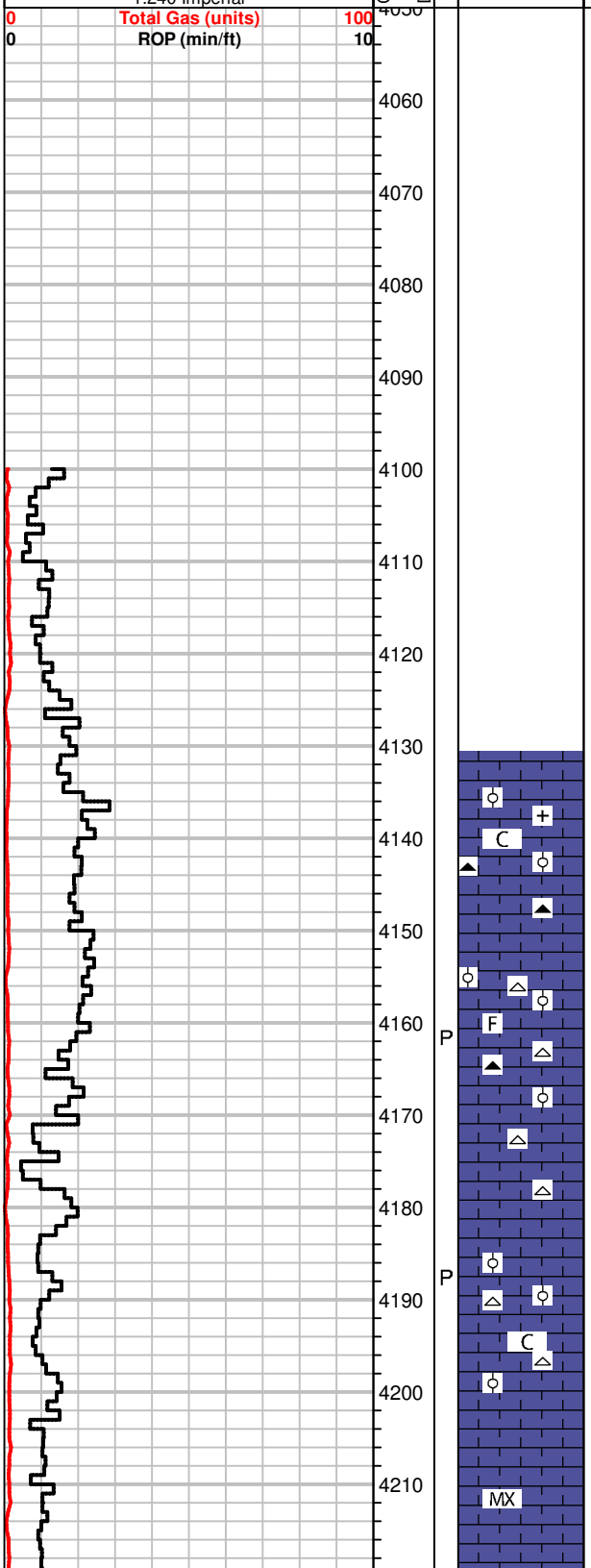
Porosity Types

Interpreted Lithology

Oil Shows

Geological Descriptions

Comment



Geologist on Loc @ 0930 7/26/2014
Gas detector - Bloodhound Unit 0779, Bluestem Labs

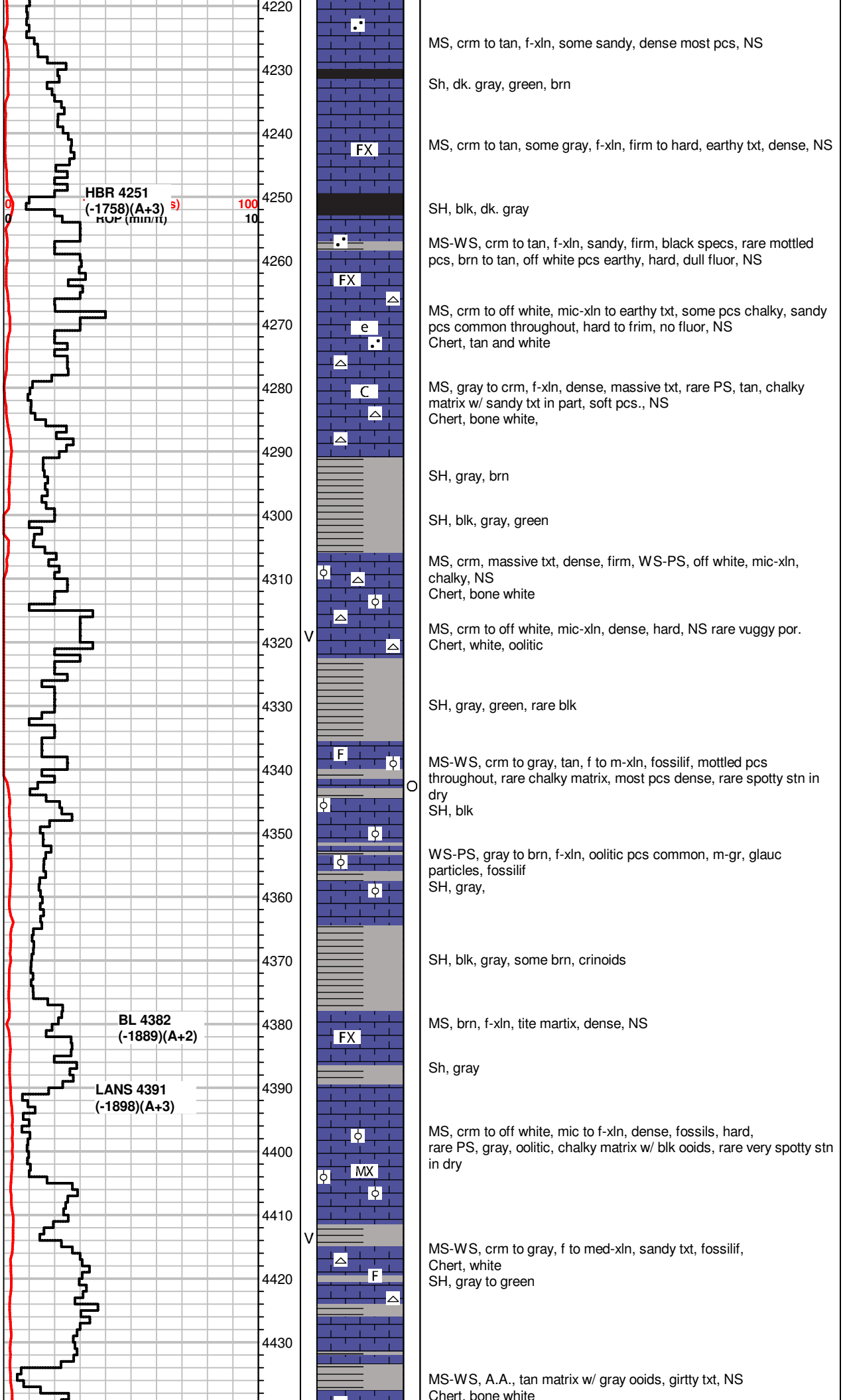
WS, crm, fn particulate, sandy in part, some with chalky matrix, firm to soft, feldspar frgmts visible, rare x-tal growth, dull fluor, barren dry, NS
Chert, gray, oolitic,

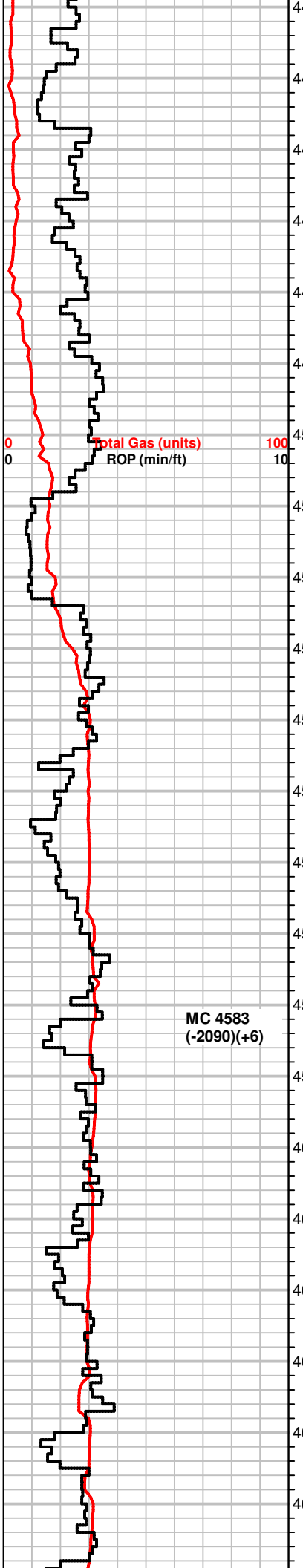
WS, A.A., some off white, tite matrix, dense, fossils, some MS, tan f-xln, fossilif, oolitic, NS
Chert, clear to gray, some interfingered w/ MS

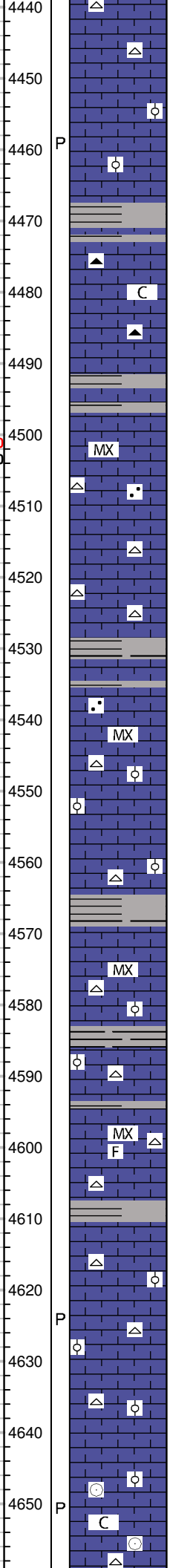
MS-WS, A.A., abundance of fossilif pcs, inc in crm pcs of MS, mic-xln, NS
Chert, white, blocky pcs, some tripolitic on edges
some SH, brn gray, red, rare green

MS, off white to crm, some lt. gray, mic-xln, firm, chalky in part, rare PS, off white, oolitic, x-taln,
Chert, white

WS-PS, A.A. crm to off white, mic-xln, hard, dense, NS
SH, dk. gray, gray


HBR 4251
(-1758)(A+3)
ROP (min/ft)
0
100
10
BL 4382
(-1889)(A+2)
LANS 4391
(-1898)(A+3)
4220
4230
4240
4250
4260
4270
4280
4290
4300
4310
4320
4330
4340
4350
4360
4370
4380
4390
4400
4410
4420
4430
FX
FX
e
C
V
F
O
MX
V
F
MS, crm to tan, f-xln, some sandy, dense most pcs, NS
Sh, dk. gray, green, brn
MS, crm to tan, some gray, f-xln, firm to hard, earthy txt, dense, NS
SH, blk, dk. gray
MS-WS, crm to tan, f-xln, sandy, firm, black specs, rare mottled pcs, brn to tan, off white pcs earthy, hard, dull fluor, NS
MS, crm to off white, mic-xln to earthy txt, some pcs chalky, sandy pcs common throughout, hard to frim, no fluor, NS
Chert, tan and white
MS, gray to crm, f-xln, dense, massive txt, rare PS, tan, chalky matrix w/ sandy txt in part, soft pcs., NS
Chert, bone white,
SH, gray, brn
SH, blk, gray, green
MS, crm, massive txt, dense, firm, WS-PS, off white, mic-xln, chalky, NS
Chert, bone white
MS, crm to off white, mic-xln, dense, hard, NS rare vuggy por.
Chert, white, oolitic
SH, gray, green, rare blk
MS-WS, crm to gray, tan, f to m-xln, fossilif, mottled pcs throughout, rare chalky matrix, most pcs dense, rare spotty stn in dry
SH, blk
WS-PS, gray to brn, f-xln, oolitic pcs common, m-gr, glauc particles, fossilif
SH, gray,
SH, blk, gray, some brn, crinoids
MS, brn, f-xln, tite martix, dense, NS
Sh, gray
MS, crm to off white, mic to f-xln, dense, fossils, hard,
rare PS, gray, oolitic, chalky matrix w/ blk ooids, rare very spotty stn in dry
MS-WS, crm to gray, f to med-xln, sandy txt, fossilif,
Chert, white
SH, gray to green
MS-WS, A.A., tan matrix w/ gray ooids, girtty txt, NS
Chert, bone white





MS, crm to tan, f-xln, dense, carrying SH from above

MS, crm f-xln to massive txt, dense, dull fluor, rare micro oolitic PS, crm, hard, NS, PP por.
SH, gray, green,

MS, crm, f-xln, dense, firm to hard, mottled pcs scatt, some chalky in part,
Chert, brn,

Some SH, blk to gray, silty

WS, crm to off white, mic-xln, massive txt, dense hard, rare sandy (calcitic sand), MS, brn to gray, some crm, dense, f-xln, dull fluor, lt. edge stn on rare pcs
Chert, white, tan, micro oolitic

MS-WS, crm to gray, mic-xln, A.A., some co-gr particle inclusions, NS

some SH, gray

MS-WS, crm to brn, mic-xln matrix, vf-gritty txt in part, hard pcs, fossilif, lt. edge stn on rare pcs
free Chert, white, smoky gray

MS, crm to gray, mic-xln, hard, some pcs w/ rare oolities, m-gr,
Chert, white, tan

SH, gray

WS-MS, crm to tan, some gray, f to mic-xln, firm to hard, rare chalky matrix in pcs, rare mirco oolitic pcs, NS
Chert, white

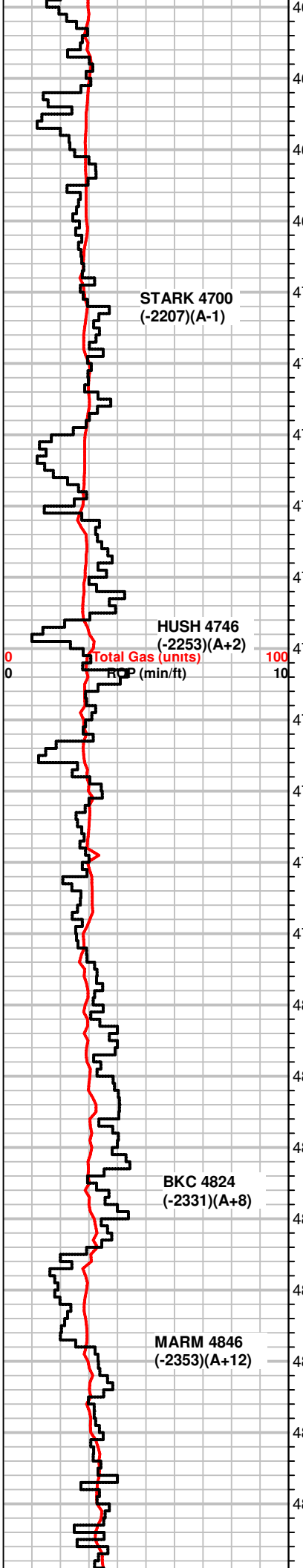
SH, blk, dk. gray, brn, striated

MS, crm, mic-xln, dense, tite matrix, gritty txt, rare fossils, dull fluor, lt. edge stn on rare pcs
Chert, white
some SH, gray

WS-PS, crm to off white, chalky matrix in part, mic to f-xln, hard, rare oolitic pcs, mottled, NS, rare PP por.
Chert, white

SH, blk, dk. gray, grays

MS, crm, mic-xln to chalky, crinoids, PP por.
Chert, white



4660
4670
4680
4690
4700
4710
4720
4730
4740
4750
4760
4770
4780
4790
4800
4810
4820
4830
4840
4850
4860
4870

O
P
V
D
CX
F
V
P
C
V
P
F
F
P

MS-WS, crm to tan, f--xln, hard, rare gritty pcs, fossilif, scatt lt. stn in dry, no cut, no odor
Chert, white, smoky
SH, gray, some silty

WS-PS, crm to sli. off white, mic-xln, gritty/sandy txt in pcs, micro oolitic pcs scatt, fossilif, PP por.
Chert, white, some blocky pcs
SH, gray

MS, some WS, crm, sandy txt in WS pcs, some sub oolitic pcs, dull fluor, dead wormy stn, vuggy por.
Chert, off white
SH, dk. gray

SH, grays

SH, gray to green, some shaly sand, green,

MS, crm A.A.

MS-WS, crm, A.A., mic-xln, to f-xln, hard, fossils, NS
Chert, white
SH, dk. gray brn, silty in part

MS, crm, cript-xln, dense, dull fluor, NS

SH, dk. brn, gray

WS, crm, mic-xln, some pcs chalky matrix, fossilif
influx Chert, white, some smoky w/ white lineations, some pcs edge stn dry, pp vuggy por.

MS, crm to lt. tan, mic-xln, to chalky, hard to frim pcs, some gritty txt,
Chert, white, some fresh w/ weathered edges

SH, blk, gray, green

WS-PS, crm to lt. brn and tan, f-xln, chalky matrix in crm pcs, frim, dense, massive txt in brn/tan pcs, hard, dull fluor, vuggy and PP por, NS
Chert, white, lt. gray

SH, gray, dk. gray, brn, green,
MS, brn, tan, gray, f-xln, dense, some mottled pcs, fossilif, moldic por.
Chert, white
SH, gray, dk. gray, brn, green,

some MS, crm, f-xln to mic-xln, firm, brittle, fossils, NS, Assoc
Chert, white

SH, gray, green, some red
MS, brn, f-xln, firm, black specs, some crm pcs, mic-xln, hard, dense, NS, Chert, white, fossilif.

MS, crm to brn, mic to vf-xln, firm, brittle, fossilif, rare sub oolitic brn pcs, m-gr black ooids in dense matrix, rare edge stn dry.

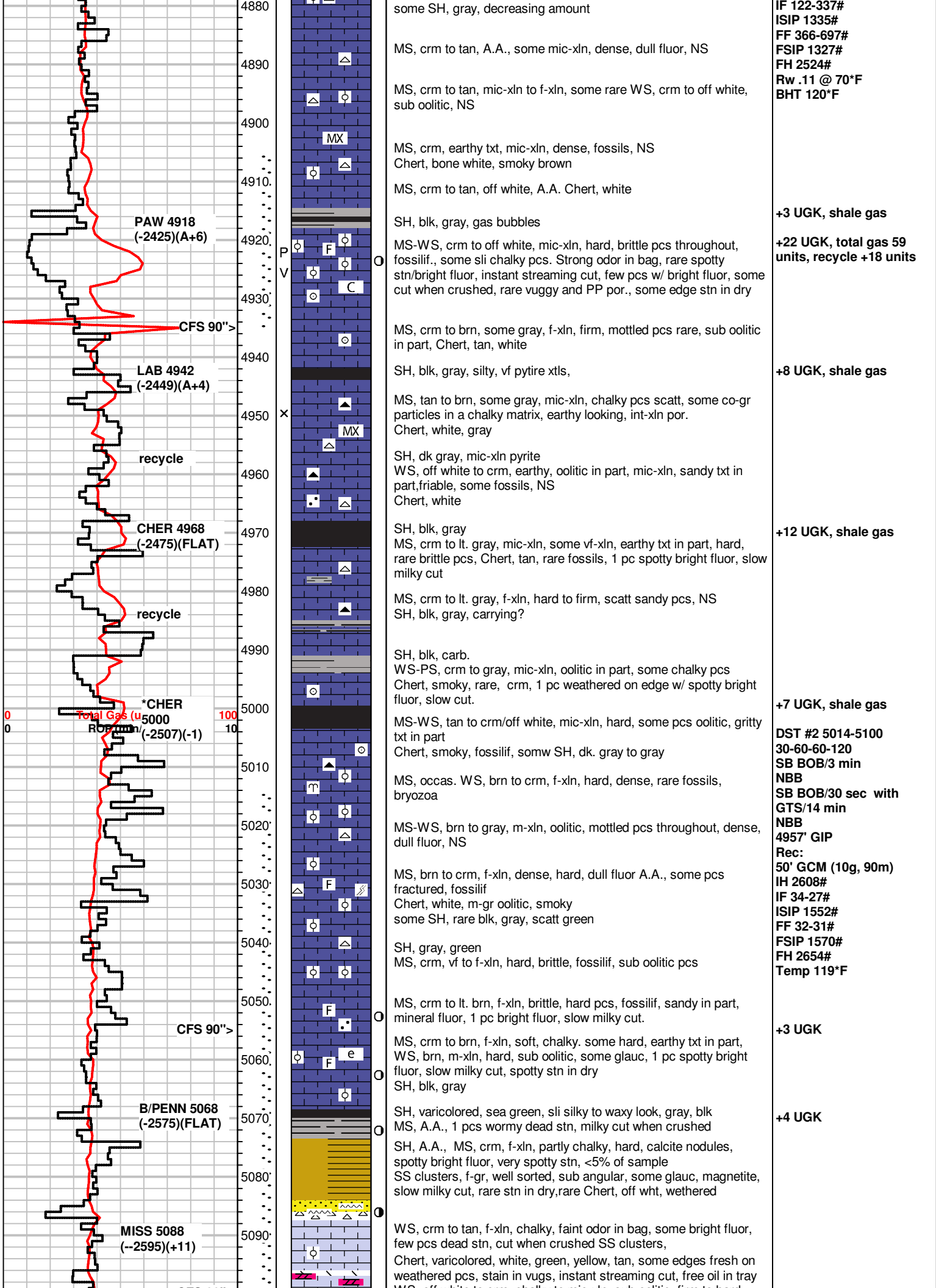
MS, A.A., some pcs chalky matric w/ sandy txt
some SH, lt. gray to green, PP por.

MS, crm to tan, f-xln, earthy, hard, fossilif, rare sli oolitic pcs,
Chert, white

+3 UGK

+5 UGK

DST #1 4905-4935
30-60-60-90
SB, BOB/90 sec
3 inch BB
SB BOB/3 min
4 inch BB
2294' GIP
REC: 1426' Total Fluid
155' GOMCW
(30g, 20o, 20m, 30w)
124' GOMCW
(20g, 10o, 14m, 56w)
1147' water
CL 71000ppm
IH 2543#


PAW 4918
(-2425)(A+6)
CFS 90">
LAB 4942
(-2449)(A+4)
recycle
CHER 4968
(-2475)(FLAT)
recycle
*CHER
5000
(-2507)(-1)
Total Gas (u
ROP, min/
0
0
100
10
CFS 90">
B/PENN 5068
(-2575)(FLAT)
MISS 5088
(--2595)(+11)
4880
4890
4900
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4920
4930
4940
4950
4960
4970
4980
4990
5000
5010
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5090
MX
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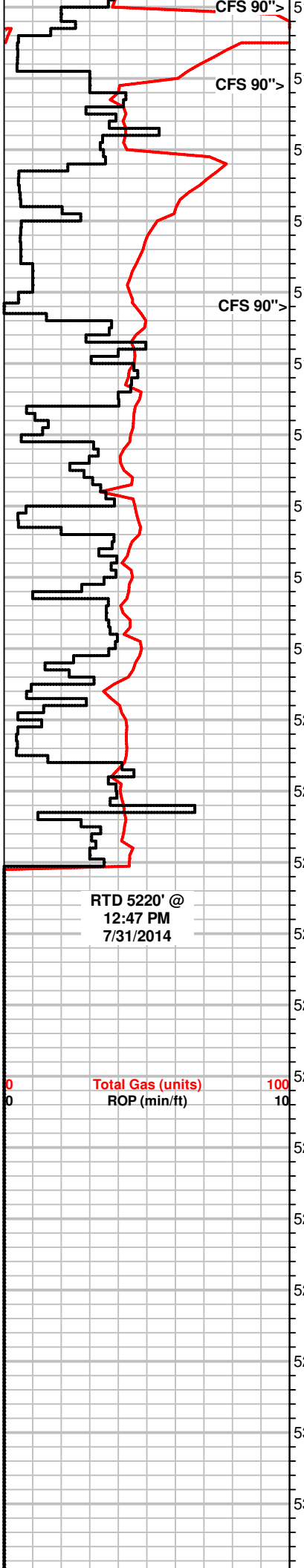
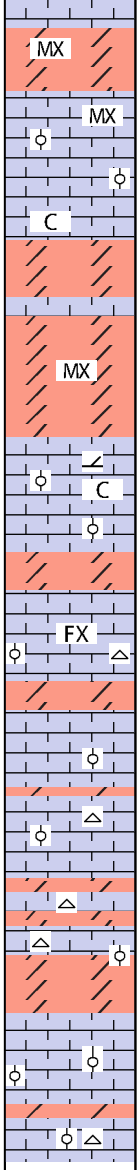
O
some SH, gray, decreasing amount
MS, crm to tan, A.A., some mic-xln, dense, dull fluor, NS
MS, crm to tan, mic-xln to f-xln, some rare WS, crm to off white, sub oolitic, NS
MS, crm, earthy txt, mic-xln, dense, fossils, NS
Chert, bone white, smoky brown
MS, crm to tan, off white, A.A. Chert, white
SH, blk, gray, gas bubbles
MS-WS, crm to off white, mic-xln, hard, brittle pcs throughout, fossilif., some sli chalky pcs. Strong odor in bag, rare spotty stn/bright fluor, instant streaming cut, few pcs w/ bright fluor, some cut when crushed, rare vuggy and PP por., some edge stn in dry
MS, crm to brn, some gray, f-xln, firm, mottled pcs rare, sub oolitic in part, Chert, tan, white
SH, blk, gray, silty, vf pytire xtls,
MS, tan to brn, some gray, mic-xln, chalky pcs scatt, some co-gr particles in a chalky matrix, earthy looking, int-xln por.
Chert, white, gray
SH, dk gray, mic-xln pyrite
WS, off white to crm, earthy, oolitic in part, mic-xln, sandy txt in part,friable, some fossils, NS
Chert, white
SH, blk, gray
MS, crm to lt. gray, mic-xln, some vf-xln, earthy txt in part, hard, rare brittle pcs, Chert, tan, rare fossils, 1 pc spotty bright fluor, slow milky cut
MS, crm to lt. gray, f-xln, hard to firm, scatt sandy pcs, NS
SH, blk, gray, carrying?
SH, blk, carb.
WS-PS, crm to gray, mic-xln, oolitic in part, some chalky pcs
Chert, smoky, rare, crm, 1 pc weathered on edge w/ spotty bright fluor, slow cut.
MS-WS, tan to crm/off white, mic-xln, hard, some pcs oolitic, gritty txt in part
Chert, smoky, fossilif, somw SH, dk. gray to gray
MS, occas. WS, brn to crm, f-xln, hard, dense, rare fossils, bryozoa
MS-WS, brn to gray, m-xln, oolitic, mottled pcs throughout, dense, dull fluor, NS
MS, brn to crm, f-xln, dense, hard, dull fluor A.A., some pcs fractured, fossilif
Chert, white, m-gr oolitic, smoky
some SH, rare blk, gray, scatt green
SH, gray, green
MS, crm, vf to f-xln, hard, brittle, fossilif, sub oolitic pcs
MS, crm to lt. brn, f-xln, brittle, hard pcs, fossilif, sandy in part, mineral fluor, 1 pc bright fluor, slow milky cut.
MS, crm to brn, f-xln, soft, chalky. some hard, earthy txt in part, WS, brn, m-xln, hard, sub oolitic, some glauc, 1 pc spotty bright fluor, slow milky cut, spotty stn in dry
SH, blk, gray
SH, varicolored, sea green, sli silky to waxy look, gray, blk
MS, A.A., 1 pcs wormy dead stn, milky cut when crushed
SH, A.A., MS, crm, f-xln, partly chalky, hard, calcite nodules, spotty bright fluor, very spotty stn, <5% of sample
SS clusters, f-gr, well sorted, sub angular, some glauc, magnetite, slow milky cut, rare stn in dry,rare Chert, off wht, wethered
WS, crm to tan, f-xln, chalky, faint odor in bag, some bright fluor, few pcs dead stn, cut when crushed SS clusters,
Chert, varicolored, white, green, yellow, tan, some edges fresh on weathered pcs, stain in vugs, instant streaming cut, free oil in tray
IF 122-337#
ISIP 1335#
FF 366-697#
FSIP 1327#
FH 2524#
Rw .11 @ 70*F
BHT 120*F
+3 UGK, shale gas
+22 UGK, total gas 59 units, recycle +18 units
+8 UGK, shale gas
+12 UGK, shale gas
+7 UGK, shale gas
DST #2 5014-5100
30-60-60-120
SB BOB/3 min
NBB
SB BOB/30 sec with
GTS/14 min
NBB
4957' GIP
Rec:
50' GCM (10g, 90m)
IH 2608#
IF 34-27#
ISIP 1552#
FF 32-31#
FSIP 1570#
FH 2654#
Temp 119*F
+3 UGK
+4 UGK





WS, off white to crm, chalky to mic-xln, sub oolitic, firm to hard

Dolo, lt. gray to off white, vf-sucrosic, soft to brittle, some pcs firm, stn on some pcs-30% of dolomite, very spotty bright fluor, bleeding gas, milky cut to residual ring cut,

WS, off white to crm some rare brn pcs, f-xln, hard, some pcs brittle, sli. chalky matrix in part, micro oolitic pcs, some dolomitic.

Dolo, brn to crm, f-suc, some pcs m-xln, bleeding gas, stain, streaming cut, PP and inter-xln por.

Dolo, brn, some crm, f-xln, f-sucrosic sugary txt, firm to friable, good odor in bag, stn, some saturation, rare free oil in tray, oil droplets in por spaces, inst. streaming cut **+37 UGK, 26 Unit recycle**

Dolo, brn, f-suc, firm, mineral fluor

WS-PS, off white to crm, f to m-xln matrix, pcs chalky, some oolitic, m-gr, NS

Dolo, brn to gray, f-suc,
PS-WS, crm to off wht, f to m-xln, hard, oolitic in part, chalky matrix in pcs, NS
Chert, white oolitic, scatt tan

Dolo, gray, f-suc, some w/ white edges, sugary txt, dull fluor, NS

PS, off white to crm, chalky matrix, some pcs mic-xln, co-gr oolitic, NS, Dolo, A.A. NS
Chert, white

PS, crm to off white, chalky matrix in pcs, mic-xln, oolitic, co-gr ooids, NS, Scatt dolo, gray to brn, f-suc.
Chert, white,

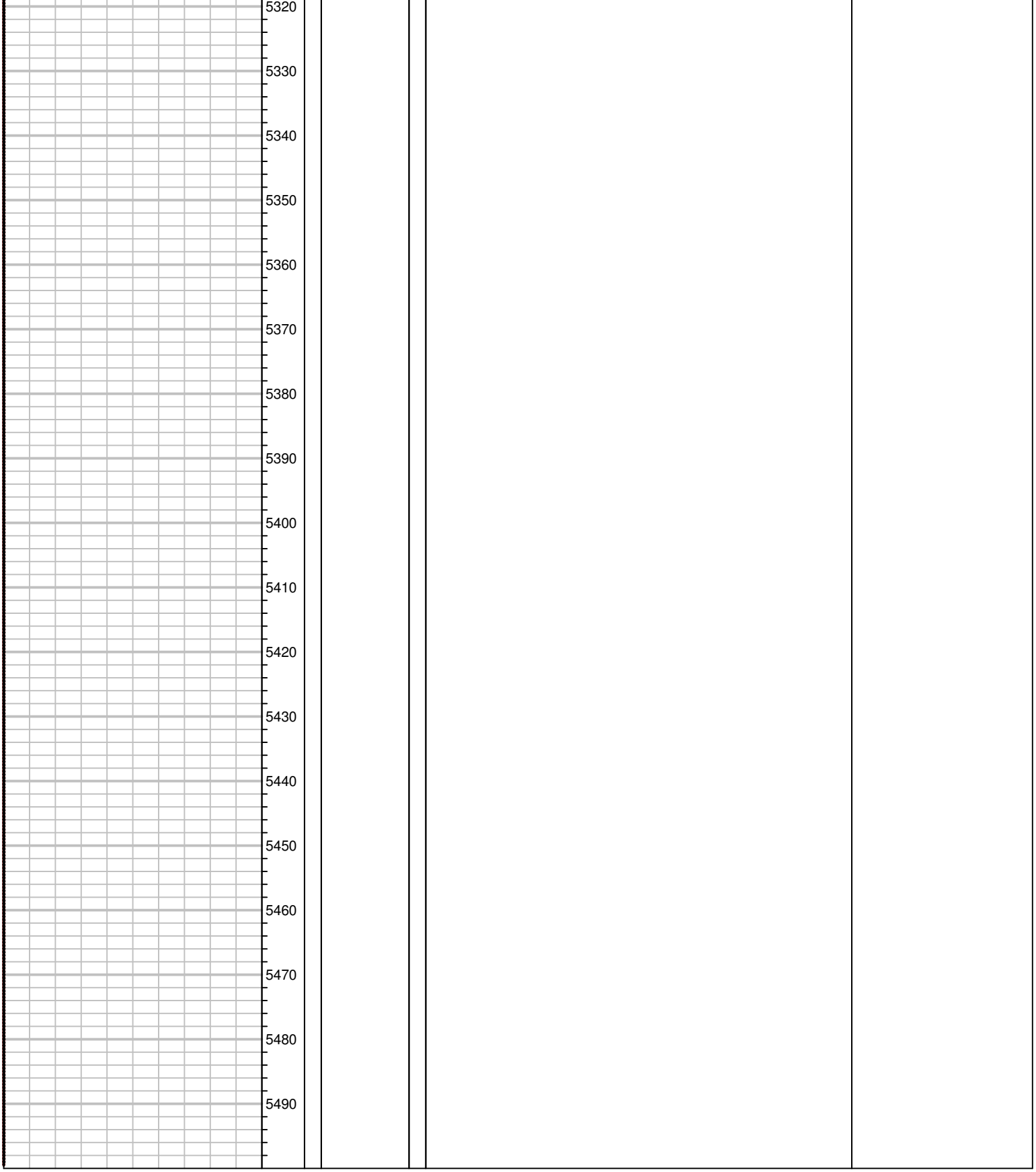
Dolo, gray to brn, f-suc, sugary txt, firm, dull mineral fluor, NS

WS-PS, off white to crm, mic-xln, oolitic pcs throughtout, hard, NS
Dolo, brn to lt. grayh, f-suc, firm, NS
WS, off white, crm, mic to f-xln, hard, oolitic, fossilif Chert, white

102 units total gas
+36 UGK
recycle +8 UGK

DST #2 5099-5111
30-60-60-120
SB BOB/10 sec,
GTS/6 min
GA on 1/4" choke
181 MCF/10min
300 MCF/20min
340 MCF/30min
Never bled off
SB BOB+GTS/immed
GA on 1/2" choke
488 MCF/10min
542 MCF/20min
555 MCF/30min
542 MCF/40min
542 MCF/50min
542 MCF/60min
NBB
5071' GIP
REC:
30 GCM (5g, 95m)
IH 2606#
IF 129-291#
ISIP 1545#
FF 158-170#
FSIP 1500#
FH 2547#
Temp 115*F

DST #4 5122-5142
30-60-60-120
SB BOB/30sec
GTS/8min into bleed off
BB built to BOB/8min
SB, BOB+GTS/immed
BB BOB/10min
4523' GIP
REC:
144' GOMCW
(12g, 5o, 59w, 24m)
62' GMCW
(2g, 88w, 10w)
372' W
IH 2609#
IF 45-156#
ISIP 1362#
FF 163-328#
FSIP 1324#
FH 2532#
Temp 119*F
Rw .15 @ 60*F
CL 59,000 ppm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