



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1230319
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: _____

1230319

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	Marfam 2-32
Doc ID	1230319

Tops

Name	Top	Datum
Heebner Shale	4374	(-1800)
Brown Limestone	4511	(-1937)
Lansing	4522	(-1948)
Stark Shale	4877	(-2303)
Pawnee	5106	(-2532)
Cherokee Shale	5154	(-2580)
Base Penn Limestone	5267	(-2693)
Mississippian	5301	(-2727)
RTD	5430	(-2856)

QUALITY WELL SERVICE, INC.

6156

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	Sec.	Twp.	Range	County	State	On Location	Finish
07-06-14	32	29S	24W	Ford	KS	10:00 AM	12:15 PM
Lease <i>Marfam</i>		Well No. <i>2-32</i>		Location <i>Bloom 4 West 3/4 S East into</i>			
Contractor <i>Val #</i>				Owner <i>Vincent</i>			
Type Job <i>Surface</i>				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 <i>12 1/4</i>		T.D. <i>648</i>		Charge To <i>Vincent</i>			
Csg. <i>8 5/8</i>		<i>24"</i> Depth <i>644</i>		Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg. <i>42'</i>		Shoe Joint <i>42.16</i>		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace <i>BBls Fresh</i>		Cement Amount Ordered <i>125sx MDC 1/4" 125sx "A"</i>			
EQUIPMENT				<i>+ 3% ace + 2% gel + 1/4" Flo Seal</i>			
Pumptrk <i>8</i>	No. <i>David F.</i>			Common <i>125</i>			
Bulktrk <i>10</i>	No. <i>David B</i>			Roz-Mix <i>MDC 125</i>			
Bulktrk <i>7</i>	No. <i>Mike B</i>			Gel. <i>11</i>			
Pickup	No.			Calcium <i>10</i>			
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal <i>66.25</i>			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar <i>Ron 15 jts 8 5/8 csg</i>				CFL-117 or CD110 CAF 38			
<i>Pipe on Btm, Break Circ, Pump 3 BBls Space</i>				Sand			
<i>Mix Light + Weigh + Cement, Mix tail Cement</i>				*Handling <i>271</i>			
<i>Stop Pump, Release Plug - Start Disp. w/</i>				Mileage <i>50</i>			
<i>Fresh H₂O, See steady increase in PSI,</i>				FLOAT EQUIPMENT			
<i>Slow Rate, Bump Plug at 39 BBls</i>				Guide Shoe			
<i>total Disp., Shut in, Cement Did Not</i>				Centralizer			
<i>Circ.</i>				Baskets			
				AFU Inserts <i>-Baffle Plate</i>			
				Float Shoe			
				Latch Down <i>Service Supervisor</i>			
				<i>Warden Cap - ERP Warden Cap Plug</i>			
				<i>LMV 50</i>			
				Pumptrk Charge <i>Surface</i>			
				Mileage <i>50 x 2</i>			
				Tax			
				Discount			
				Total Charge			
X Signature <i>Buck Smith</i>							

QUALITY WELL SERVICE, INC.

6211

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	7-16-14	Sec.	32	Twp.	29	Range	24	County	Ford	State	Ks	On Location	6:15 AM	Finish	9:00 AM
Lease	Marfan	Well No.	2-32		Location Bloom 4W 1/2 South East 1st										
Contractor	Val				Owner										
Type Job	Rotary Plug				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	T.D.				Charge To Vincent										
Csg.	Depth				Street										
Tbg. Size	Depth				City State										
Tool	Depth				The above was done to satisfaction and supervision of owner agent or contractor.										
Cement Left in Csg.	Shoe Joint				Cement Amount Ordered 170sx 60/40 4% Gel										
Meas Line	Displace				14 C.F.										
EQUIPMENT															
Pumptrk	6	No.	David		Common 105										
Bulktrk	4	No.	mike		Poz. Mix 65										
Bulktrk		No.			Gel. 6										
Pickup		No.			Calcium										
JOB SERVICES & REMARKS												Hulls			
Rat Hole	305x				Salt										
Mouse Hole	705x				Flowseal 42.50										
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
												Sand			
1st Pumped 505x 60/40 4% Gel @ 1530.												Handling 176			
												Mileage 50			
												FLOAT EQUIPMENT			
2nd Pumped 505x 60/40 4% Gel @ 690'												Guide Shoe			
												Centralizer			
												Baskets			
3rd Pumped 705x 60/40 4% Gel @ 60' to surface.												AFU Inserts			
												Float Shoe			
												Latch Down			
												Service supervisor			
												LMV 50			
												Pumptrk Charge Rotary Plug			
												Mileage 50 x 2			
												Tax			
												Discount			
												Total Charge			
Signature <i>Scott</i>															



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Vincent Oil Corporation

32-29S-24W Ford

155 N Marke Ste 700
Wichita, KS 67202

Marfam 2-32

Job Ticket: 51809

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2014.07.13 @ 22:02:15

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:26:30

Time Test Ended: 08:07:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 5277.00 ft (KB) To 5302.00 ft (KB) (TVD)

Reference Elevations: 2574.00 ft (KB)

Total Depth: 5302.00 ft (KB) (TVD)

2564.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6798 Inside

Press@RunDepth: 458.13 psig @ 5278.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.13

End Date:

2014.07.14

Last Calib.:

2014.07.14

Start Time: 22:02:16

End Time:

08:07:00

Time On Btm:

2014.07.14 @ 01:08:00

Time Off Btm:

2014.07.14 @ 05:22:00

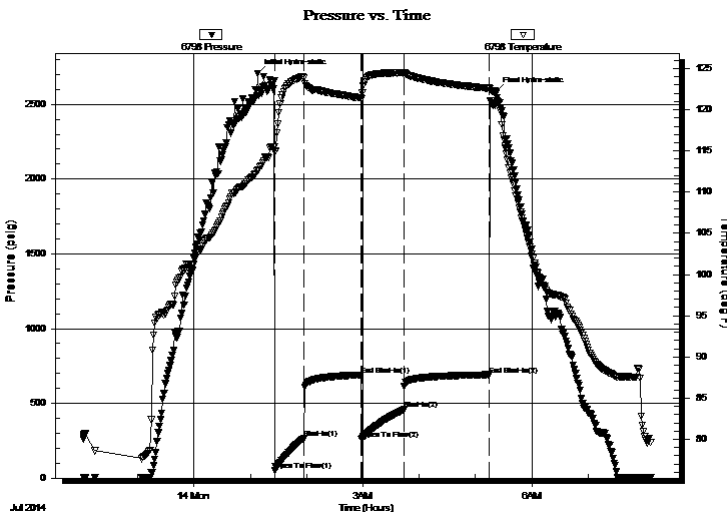
TEST COMMENT: IF: Fair Blow , BOB in 8 minutes

IS: No Blow Back

FF: Weak Blow , BOB in 19 minutes

FS: 1 inch Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2707.63	112.65	Initial Hydro-static
19	52.22	114.89	Open To Flow (1)
49	264.28	123.86	Shut-In(1)
110	689.84	121.44	End Shut-In(1)
111	260.26	121.32	Open To Flow (2)
156	458.13	124.48	Shut-In(2)
247	691.54	122.61	End Shut-In(2)
254	2586.88	122.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	350 GIP	0.00
744.00	Water	10.44
62.00	GOMCW 5%G 5%O 10%M 80%W	0.87
40.00	GOMCW 5%G 12%O 14%M 69%W	0.56

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

32-29S-24W Ford

155 N Marke Ste 700
Wichita, KS 67202

Marfam 2-32

Job Ticket: 51809

DST#: 1

ATTN: Tom Dudgeon

Test Start: 2014.07.13 @ 22:02:15

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:

56000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 11.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
0.00	350 GIP	0.000
744.00	Water	10.436
62.00	GOMCW 5%G 5%O 10%M 80%W	0.870
40.00	GOMCW 5%G 12%O 14%M 69%W	0.561

Total Length: 846.00 ft Total Volume: 11.867 bbf

Num Fluid Samples: 0

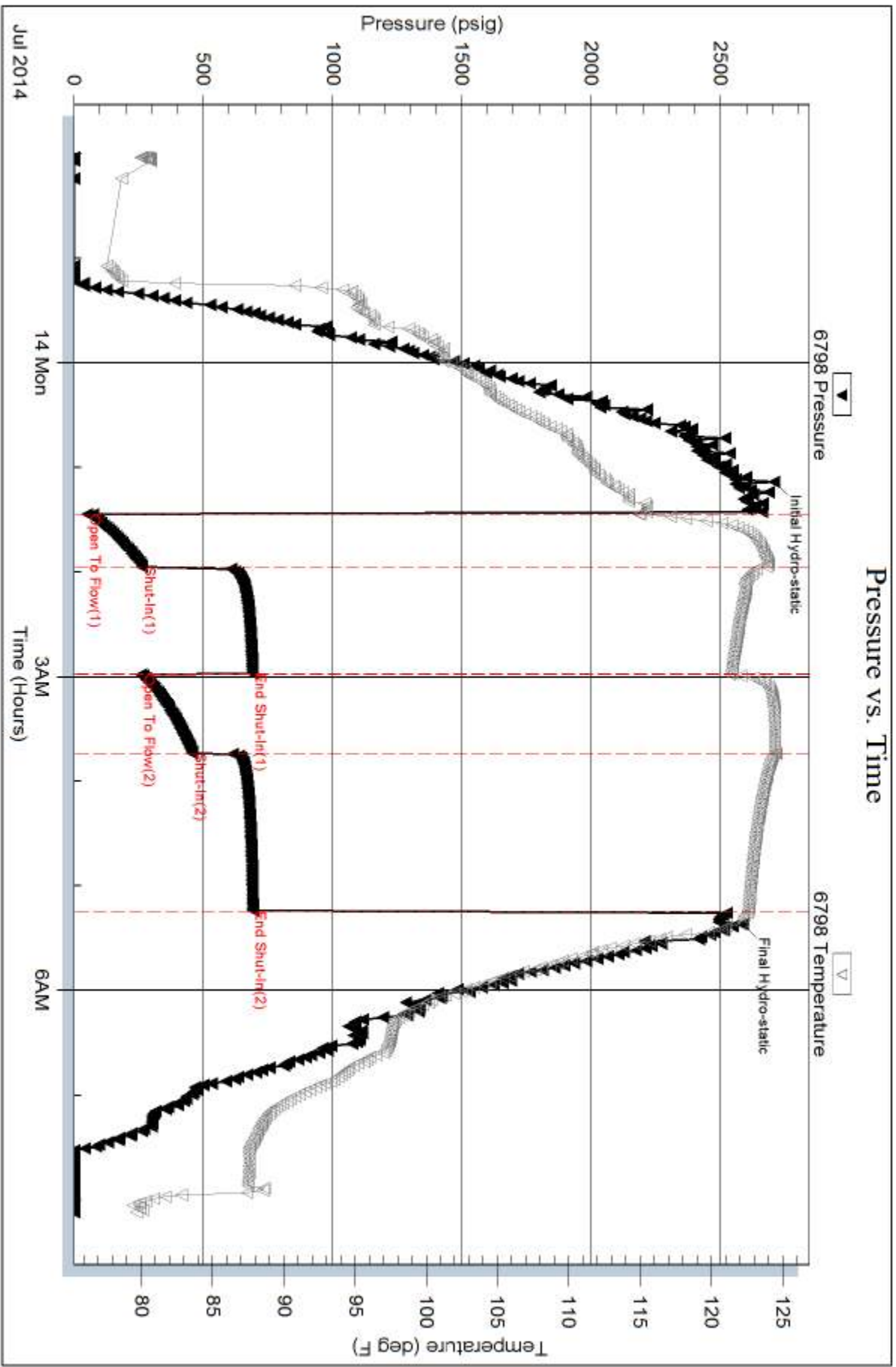
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .15 @ 62 degree





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Vincent Oil Corporation

32-29S-24W Ford

155 N Marke Ste 700
Wichita, KS 67202

Marfam 2-32

Job Ticket: 51810

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2014.07.14 @ 18:53:45

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:00

Time Test Ended: 03:32:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 5321.00 ft (KB) To 5337.00 ft (KB) (TVD)

Reference Elevations: 2574.00 ft (KB)

Total Depth: 5337.00 ft (KB) (TVD)

2564.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 39.91 psig @ 5322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.14

End Date:

2014.07.15

Last Calib.:

2014.07.15

Start Time: 18:53:46

End Time:

03:32:00

Time On Btm:

2014.07.14 @ 21:02:30

Time Off Btm:

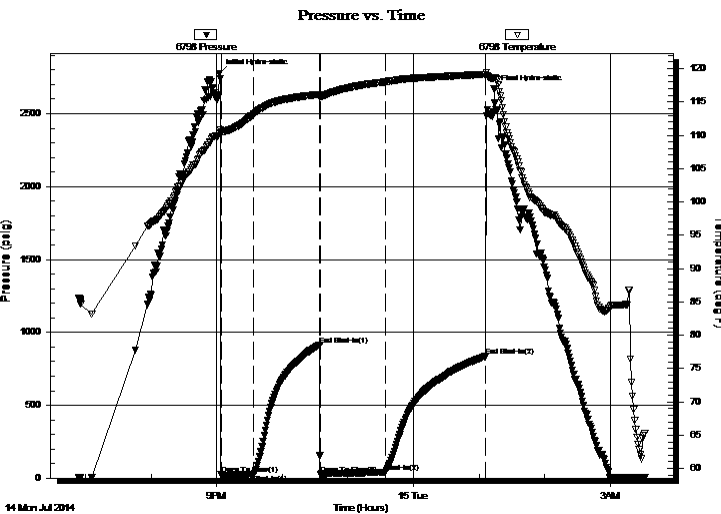
2014.07.15 @ 01:13:45

TEST COMMENT: IF: Fair Blow, BOB in 7 minutes

IS: No Blow Back

FF: Weak Blow, BOB in 40 minutes

FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2776.56	110.28	Initial Hydro-static
2	26.02	110.39	Open To Flow (1)
32	27.22	113.16	Shut-In(1)
92	914.73	116.13	End Shut-In(1)
93	26.97	115.85	Open To Flow (2)
153	39.91	118.01	Shut-In(2)
244	835.04	119.12	End Shut-In(2)
252	2667.77	118.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	332 GIP	0.00
40.00	SOCM 2%O 98%M	0.56

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vincent Oil Corporation

32-29S-24W Ford

155 N Marke Ste 700
Wichita, KS 67202

Marfam 2-32

Job Ticket: 51810

DST#: 2

ATTN: Tom Dudgeon

Test Start: 2014.07.14 @ 18:53:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 9900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	332 GIP	0.000
40.00	SOCM 2%O 98%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

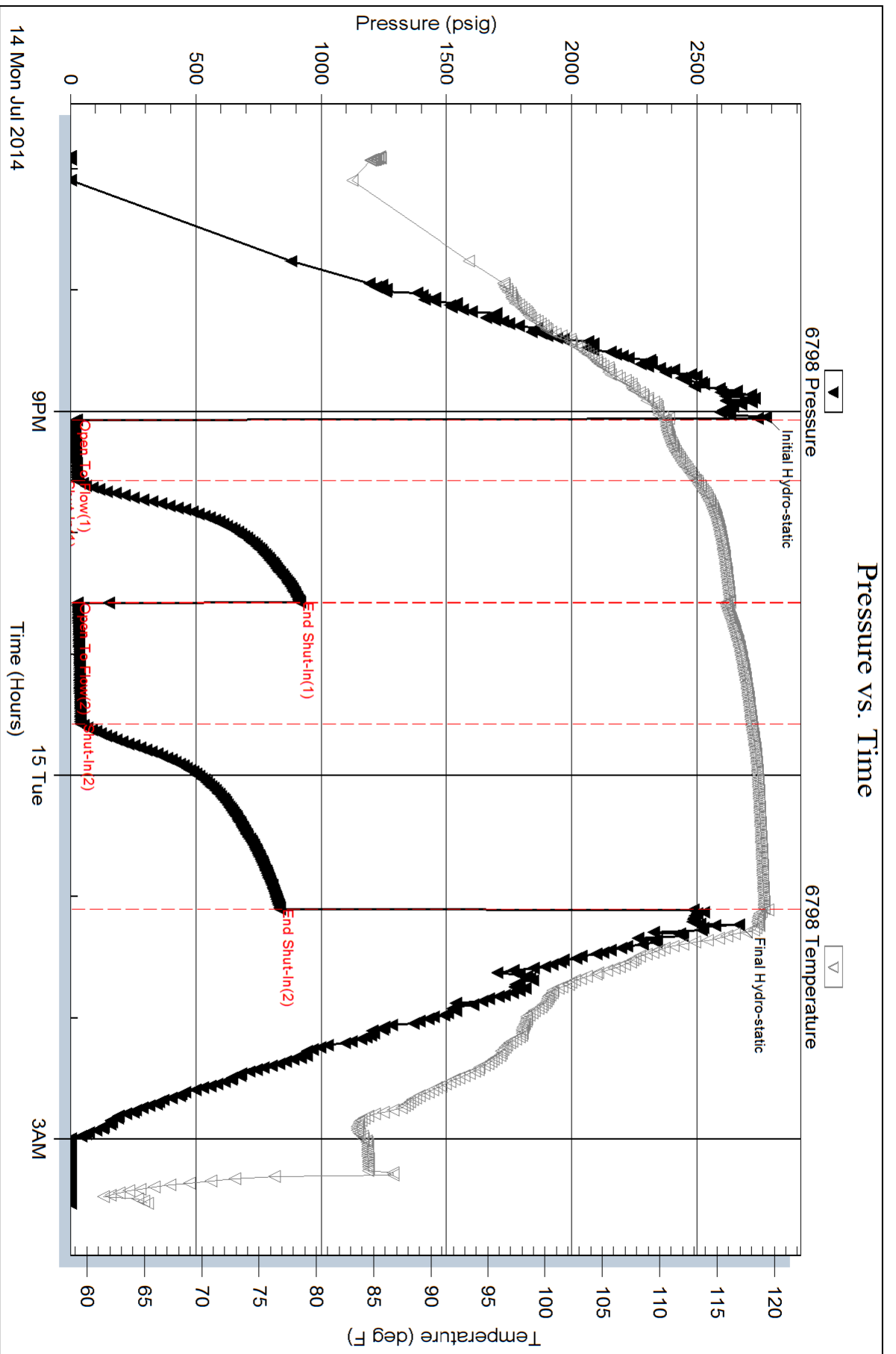
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





VINCENT OIL CORPORATION



Scale 1:240 Imperial

Well Name: Marfam 2-32
Surface Location: 32-29S-24W NE SW SW SW
Bottom Location:
API: 15-057-20933-00-00
License Number:
Spud Date: 7/5/2014 Time: 10:45 PM
Region:
Drilling Completed: 7/15/2014 Time: 2:55 PM
Surface Coordinates: 421 FSL & 371 FWL
Bottom Hole Coordinates:
Ground Elevation: 2564.00ft
K.B. Elevation: 2574.00ft
Logged Interval: 4250.00ft To: 5434.00ft
Total Depth: 5430.00ft
Formation: MISS
Drilling Fluid Type: Chemical

OPERATOR

Company: Vincent Oil Corporation
Address: 155 N. Market St.
Ste 700
Wichita, KS 67202
Contact Geologist: Dick Jordan
Contact Phone Nbr: 316-262-3573
Well Name: Marfam 2-32
Location: 32-29S-24W NE SW SW SW
Pool: API: 15-057-20933-00-00
State: KS Field: FAGER EAST
Country: USA

CONTRACTOR

Contractor: Val Drilling
Rig #: 2
Rig Type: Rotary
Spud Date: 7/5/2014 Time: 10:45 PM
TD Date: 7/15/2014 Time: 2:55 PM
Rig Release: 7/16/2014 Time: 12:00 AM

LOGGED BY

Company: Vincent Oil Corporation

Address: 155 N Market St
 Ste 700
 Wichita, KS
 Phone Nbr: 67202
 Logged By: Geologist

Name: Tom Dudgeon

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.9779599 Latitude: 37.4735086
 N/S Co-ord: 421 FSL
 E/W Co-ord: 371 FWL

ELEVATIONS

K.B. Elevation: 2574.00ft Ground Elevation: 2564.00ft
 K.B. to Ground: 10.00ft

TOTAL DEPTH

Measurement Type: Measurement Depth: TVD:
 Logger 5419.00 5419.00
 Geograph 5130.00 5419.00

OPEN HOLE LOGS

Logging Company: Nabors Completion _Production Services Co.
 Logging Engineer: Jason Cappellucci
 Truck #: 3802
 Logging Date: 7/15/2014 Time Spent: 3
 # Logs Run: 2 # Logs Run Successful: 2

LOGS RUN

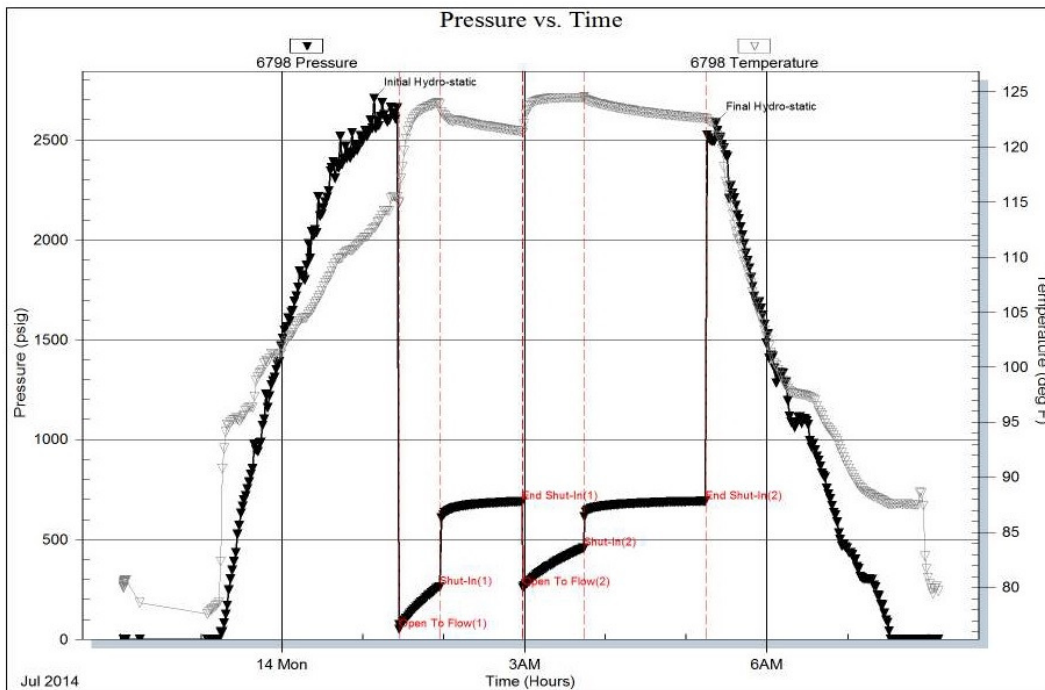
Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
COMP DEN/NEI	4300.00ft	5419.00ft	2.00		1
DUAL INDUCTIK	0.00ft	5419.00ft	2.00		1

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
7/16/2014	0.00ft	5419.00ft	LOGS SUCCESSFUL

DST #1

Serial #: 6798 Inside Vincent Oil Corporation Marfam 2-32 DST Test Number: 1



DST #2

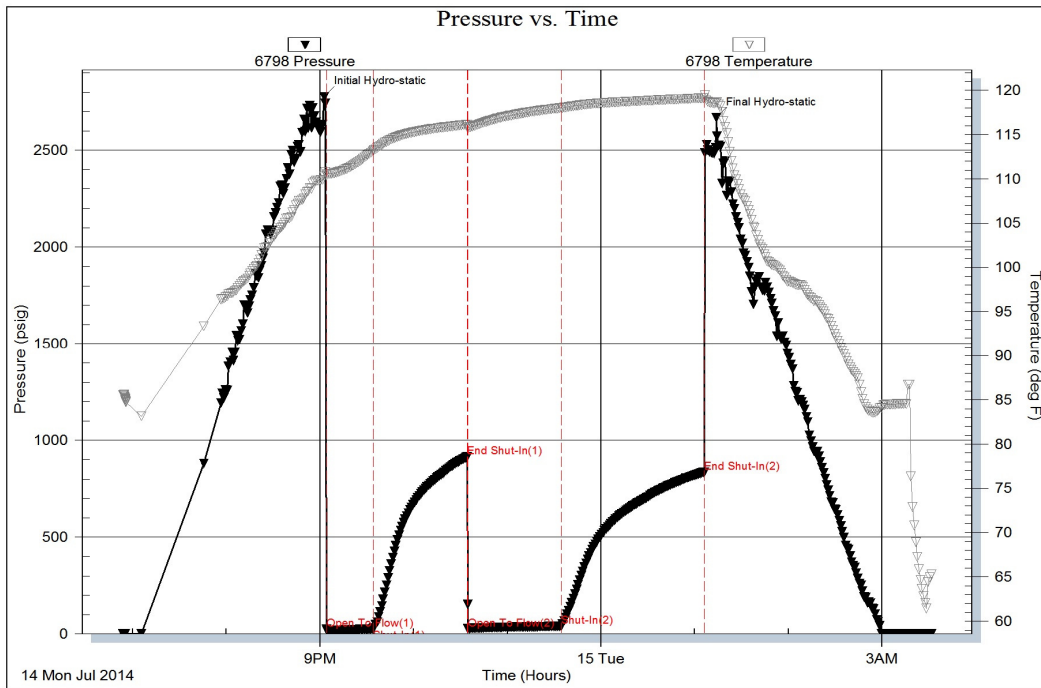
Serial #: 6798

Inside

Vincent Oil Corporation

Marfam 2-32

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 51810

Printed: 2014.07.15 @ 06:46:18

ROCK TYPES

- Coal
- Lmst fw>7
- Shgy
- Shcol
- Lmst fw<7
- Ss
- Shblk

ACCESSORIES

MINERAL

- ⊥ Calcareous
- ▲ Chert, dark
- Ferruginous, grains or p...
- ∩ Glauconite
- Sandy
- Silty
- △ Chert White

FOSSIL

- ∩ Bioclastic or Fragmental
- ◇ Brachiopod
- Crinoids
- F Fossils < 20%
- ⊕ Oolite

STRINGER

- Shale

TEXTURE

- C Chalky
- e Earthy
- FX Finexln
- MX Microxln

DUNHAM

- MS Mudst
- WS Wackstone

OTHER SYMBOLS

POROSITY TYPE

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

OIL SHOWS

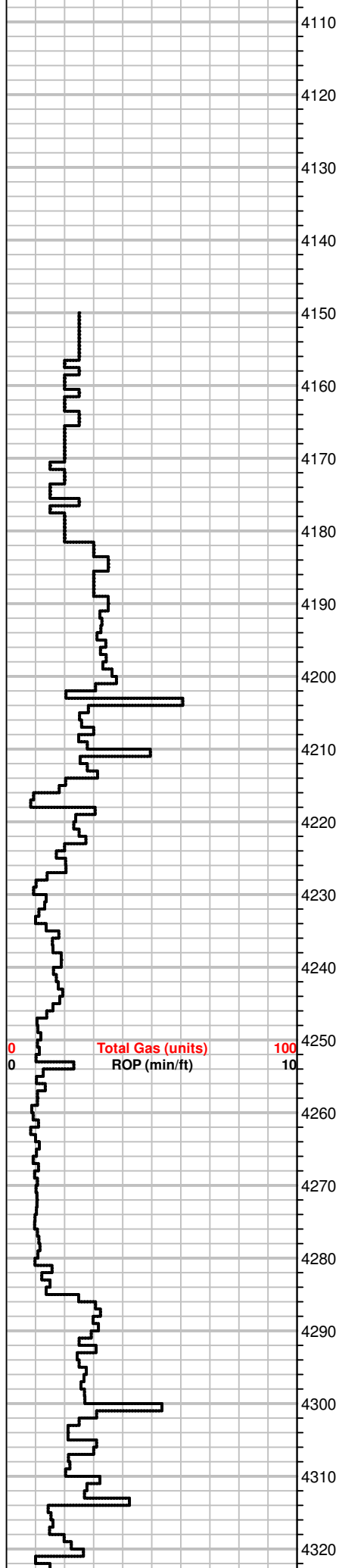
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

INTERVALS

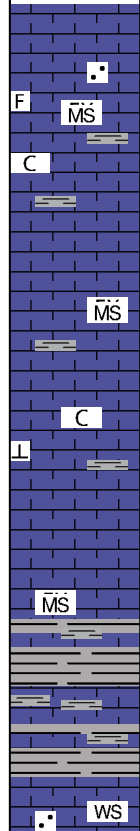
- Core
- DST

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

Curve Track #01		Depth Intervals	Porosity Types	Interpreted Lithology	Oil Shows	Geological Descriptions	Comment
Total Gas (units)	—						
ROP (min/ft)	—						
1:240 Imperial							
0	Total Gas (units)	100					
0	ROP (min/ft)	10					



GEOLOGIST ON LOC @ 2:00PM 7/11/14, DRILLING @ 4590'
GAS DETECTOR UNIT: MBC TRAILER M14

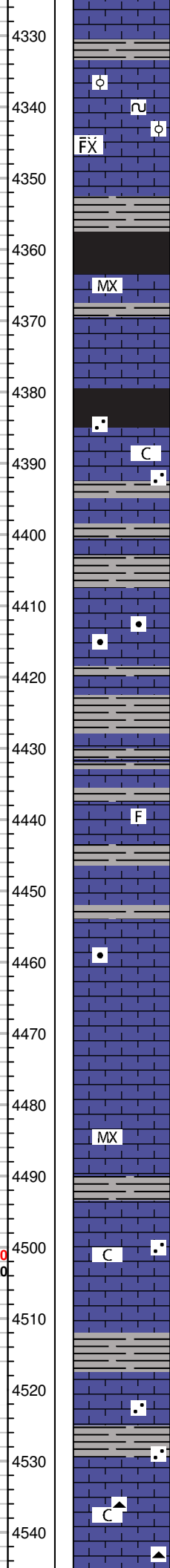
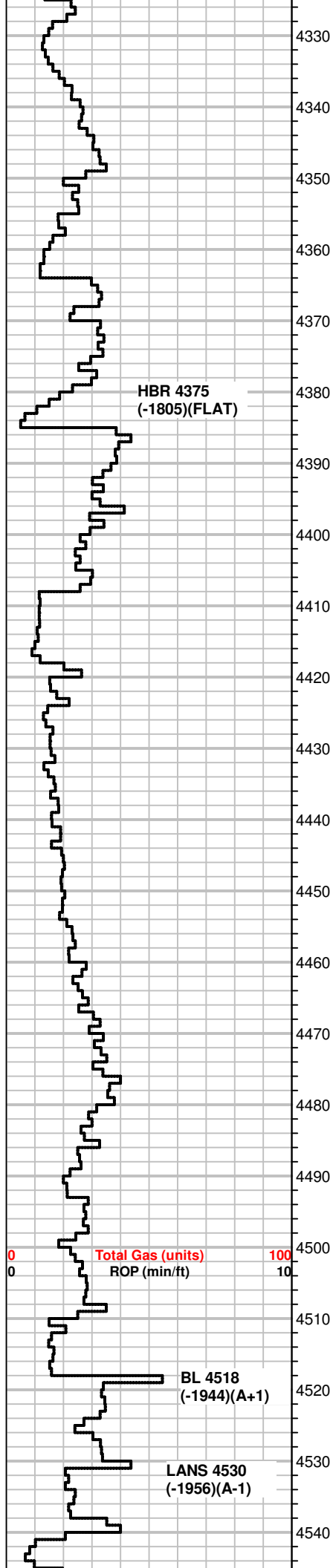


MS, crm to gray, f-xln, some mottled pcs, gritty txt., chalky pcs
scatt., calcite, fossilif.
Some SH, gray, green

MS-WS, lt. gray to pale gray, off white, chalky, most f-xln, brittle,
some calcite,
SH, dk gray to gray

WS, lt. gray, vf to f-xln, some micro-oolitic in txt, hard, brittle, some
Chert, tan

SH, blk, brn
MS-WS, A.A., some pcs gritty txt, firm, dead stn 1 pc



MS, crm to lt. gray, vf to f-xln, mirco-oolitic, some glauc, some SH, blk

MS-Shaly MS, crm to brn, carrying lt. gray MS, massive txt, dense, SH, gray, brn, blk

SH, Blk

MS-WS, crm to gray, m-xln, dense pcs, some gritty, hard, some mottled and chalky pcs scatt

MS-WS, A.A, some SH, blk

MS-WS, crm to gray, mottled brn, some blk specs, f-xln, dense, chalky in part, dull fluor, NS

SH, blk to gray

MS-WS, crm WS, gray MS, hard, fossilif, dense, NS

SH, gray, some blk

MS, crm to lt. tan, f-xln, dense, crinoids, dark gray inclusions, Chert, gray

Rare SH, dk. gray, brn

SH, dk, gray to gray, rare blk

MS, A.A., some brn, mic-xln, dense, NS

Some SH, gray, brn,

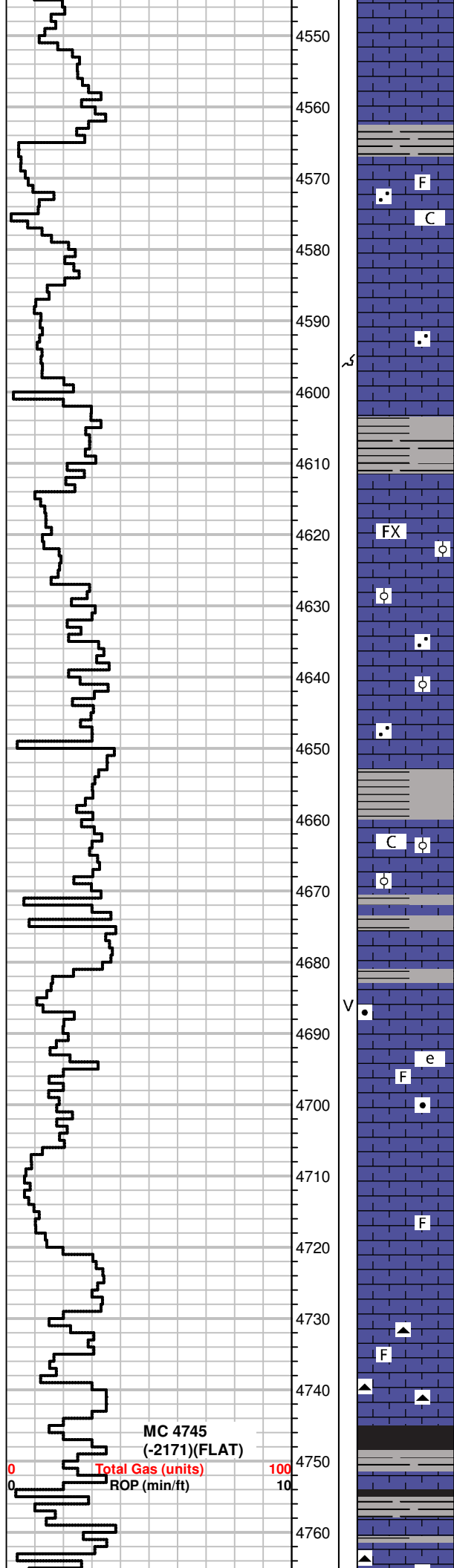
MS, crm to gray, f-xln, hard, rare chalky pcs, scatt brn MS pcs, dull fluor, NS

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

SH, gray, green, specs, sandy

MS. crm to lt. gray, f-xln, firm to hard, some partially chalky, Chert inclusions, gray, brn chert pcs,

SH, gray



MS, A.A., some sandy pcs, firm, rare bright fluor, NS
SH, gray, green,

MS, crm to gray, f-xln, some pcs gritty txt, chalky pcs common, fossilif.

WS-PS, crm to off white, oolitic, sandy txt, co to fn-gr particles, hard, rare brn, f-xln, dense, some dull fluor, NS

SH, blk, gray

MS, crm, f-xln, earthy txt, firm to hrad, mostly dense, rare oolitic pcs, m-gr, tan to crm.

MS, crm to tan, A.A, some gritty/sandy txt,

SH, gray

MS, crm to lt. gray, f-xln, firm to hard, some f-gr oolitic pcs scatt., rare chalky matrix

MS, crm, A.A., rare motled mpcs, calcite
SH, gray, green/brn striated pcs

MS, some rare WS, crm to off white/tan, f-xln, to earthy txt, sli. gritty in part, hard, scatt chalky pcs, rare fossilif gray pcs w/ black inclusions
Chert, white, opaque, fossils

MS, A.A., some fossil fragments, mineral fluor, NS
SH, gray, green, red

MS, gray to crm, f-xln, fossils
Chert, blk, brn, fossilif.

SH, blk, dk gray, green,

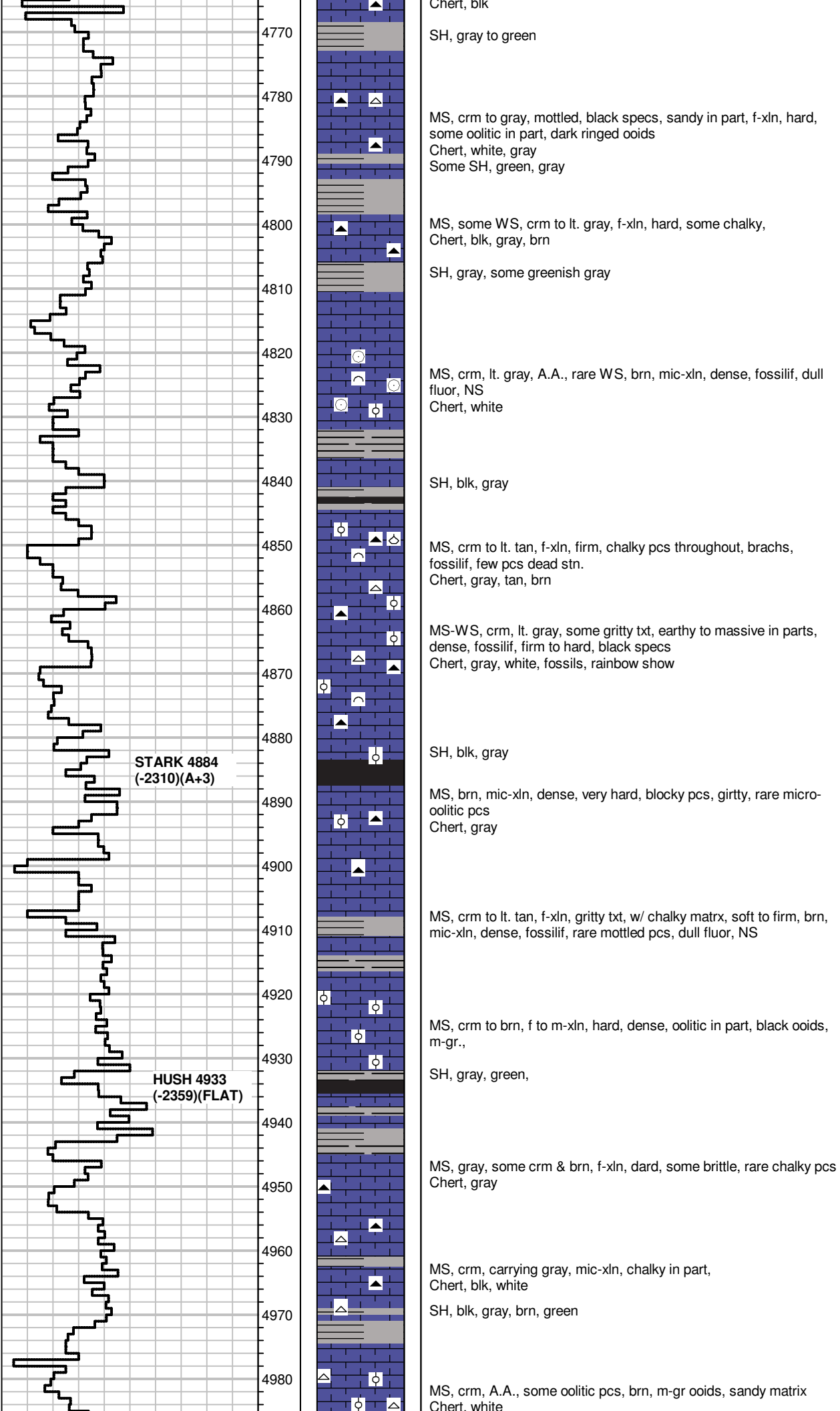
MS, crm to lt. gray, f-xln, firm to hard, some chalky

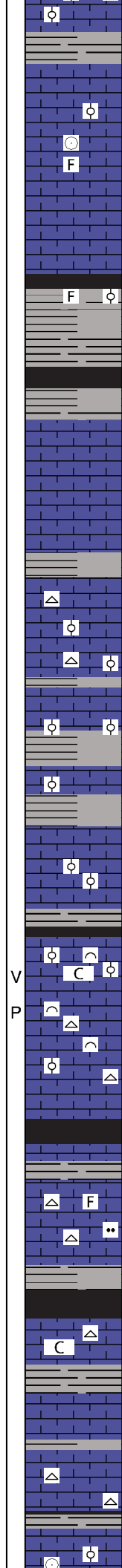
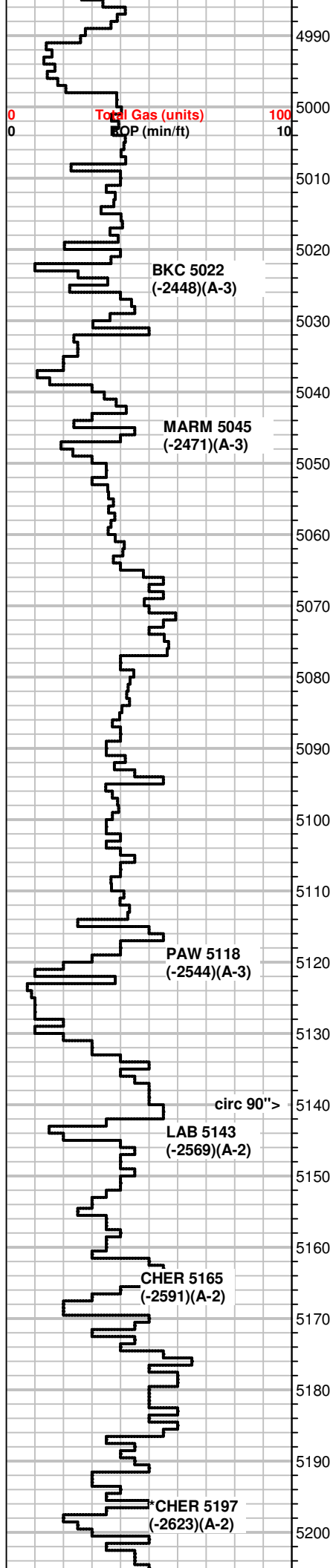
+16 Unit Gas Kick

+17 Unit Gas Kick

MC 4745
(-2171)(FLAT)
Total Gas (units)
ROP (min/ft)

0 100
0 10





SH, gray, blk, brn
MS, crm to off white, chalky, oolitic in part, some pyrite

MS, crm to gray, shaly, mottled, gritty txt, some f-xln, dense, rare fossils, calcite pcs

MS, gray to lt. brn, A.A.,
SH, gray to dk. gray

MS, gray to crm, f-xln, some m-xln, silty txt, hard
Chert, gray, blk, fossils
Some SH, gray, dk. gray

MS, A.A., Influx SH, gray, dk. gray, blk

SH, gray
MS, crm to gray, f-xln, firm, silty, rare oolitic pcs, dark f to m-gr ooids

MS, crm, vf-xln, dense, NS

MS, crm to lt. gray, f-xln, sli. silty in part, m-xln, dense, sub-oolitic pcs scatt., rare min fluor, NS
Chert, white,

MS, brn to tan, some crm, f-xln, mostly dense, crm pcs chalky matrix
SH, blk, green, gray, silty, striated

WS-PS, crm to off white, co-gr, ringed ooids, fossils, MS, crm f-xln, A.A.
SH, gray, green

MS, crm, f-xln, firm, sli. chalky matrix, fossilif, brachs, coral
Some SH, gray

WS-PS, crm to tan, f-xln, some chalky, rare gritty pcs

SH, rare blk, gray, green, some pyrite

MS, crm to tan, f-xln, hard, vuggy por visible, scatt mirco oolitic particles in chalky matrix,
MS-WS, crm to brn, f-xln, mottled pcs, fossil fragments, faint odor in bag, mineral fluor, 2 pcs dead stn, no cut, pp, vuggy por.
Chert, white

MS-WS, crm to brn, mottled pcs, oolitic to micro oolitic pcs, chalky matrix, rare mineral fluor, NS

SH, blk, gray, green
MS, brn to crm, massive txt, dense, Chert, white

MS, crm to tan, some lt. gray, f-xln, hard, fossils, silty txt in gray pcs, Chert, white, fossilif.

SH, blk, dk. gray

MS-WS, brn to crm, silty to chalky matrix, sub oolitic pcs, calcite, Chert, white, micro-oolitic
SS clusters, white, green, fn-gr, well sorted, friable, some gas bubbles, no stain, very faint cut(1pc), bright fluor in matrix
some SH, blk, gray
MS-WS, A.A., rare mineral fluor, NS

WS-PS, crm to brn, co-gr oolitic, some pcs fossilif, hard, Chert, tan, white, oolitic

SH, brn, gray

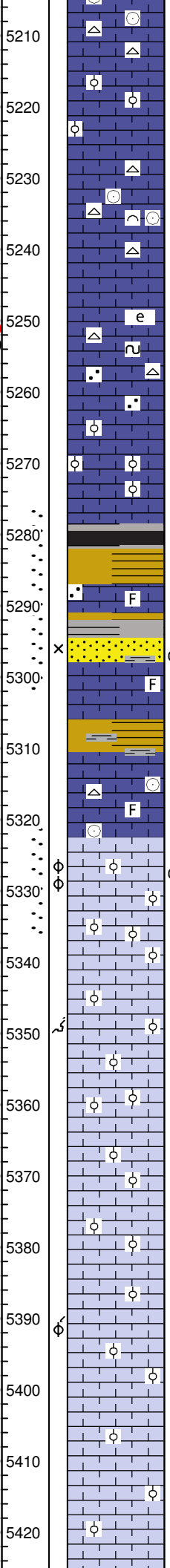
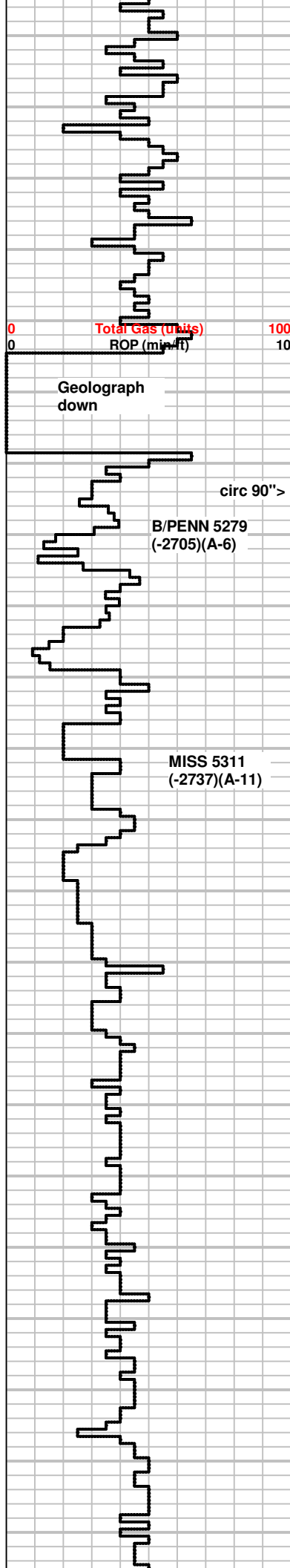
MS-WS, tan to brn, some gray, mostly w/ xln matrix, dense, hard, fossilif

**+29 Unit Gas Kick
Shale gas**

**+18 Unit Gas Kick
Shale gas**

Gas detector down

Detector Working



crinoids
 MS-WS, A.A., some sub oolitic to micro oolitic pcs, Chert, white, tan, oolitic, SH, gray
 MS, brn to crm, f-xln, firm, dense, some partially oolitic, gritty txt, fossilif pcs throughout. SH, blk, gray, green
 MS-WS, crm to brn, xln matrix, m-gr oolitic pcs, dense, hard, Chert, white, fossilif SH, blk, brn, gray
 MS-WS, brn to tan, m-xln to gritty txt, some pcs oolitic, dense in part.
 MS-WS, brn to crm, f-xln, to earthy, firm to hard, barren, Dull fluor, NS, Chert, tan, oolitic
 MS, brn, gray, crm, mottled, sandy txt, fossilif, glauc, Chert, white, tan
 Some SH, dk, gray
 MS, crm to brn, f-xln, dense, fossilif, some sub oolitic pcs scatt, barren, NS
 SH, sea green to blk and gray, some sandy
 MS, crm to gray, f-xln to gritty txt, dense, barren, some oolitic in part, fossilif.
 SS Clusters, green, gray, white, f-gr, sell sorted, friable, bleeding gas(2 pcs), faint odor, no stain
 MS, crm to brn, f-xln, dense, firm to hard, some fossils, poor samples
 MS, crm to brn, A.A, dense, xln, matrix, some calcite
 Some SH, vari colored, sandy/silty pcs throughout, poor samples!
 MS, crm to off white, f-xln, firm, flaky, brittle pcs, some dense, mottled pcs scatt, fossils(crinoids), dull fluor, NS, Chert, white, fray, fossilif., poor samples!
 WS-PS, off white, some rare brn, oolitic, m-co.oolites in gritty to chalky matrix. some pcs bright fluor in matrix, stn in pore space only(spotty), slow milky cut out of few pcs, fair odor in bag, Rare Chert, brn, gray, blocky, fossilif.,
 WS-PS, crm to brn, some xln matrix, tite, oolitic/fossilif. hard, dull fluor, NS
 Chert, oolitic
 WS, crm to off white, some gray-ish white, m to f-gr oolitic, glauc, chalky matrix, some hard
 Chert, oolitic, fossilif.
 WS, crm to off white, mic to f-cr oolitic, firm, glauc, some pcs w/ chalky matrix, gray pcs w/ micro oolitic txt, some co gr ooid inclusions
 PS, crm, off white, micro oolitic w/ chalky matrix, rare brn m oolitic pcs, dense, dull fluor, NS
 WS, crm to off white, f to m-oolitic, black specs(magnetite), rare glauc, firm to hard, some pcs friable, dull fluor, 1 pc streaming cut when broke.
 Chert, white, fossilif.
 WS, crm to off white, f to m-gr oolitic A.A, some ringed ooids, m-gr, hard, xln matrix, rare chalky pcs, dull fluor, NS
 scatt Chert, opaque, oolitic
 WS-PS, off white to crm, micro oolitic, co gr ooids, fossil fragments, hard to firm, dull fluor, NS
 Chert, gray, brn, orange on pcs on PS
 WS, off white, m to co-gr oolitic pcs, xln matrix, hard, some rare chalky matrix, fossil frgments,

DST #1 5277-5302
 30-60-45-90
 FB, BOB/8"
 NBB
 WB BOB/19"
 1" BB
 350' GIP
 REC:
 62' GOMCW
 (5g,5o,10m,80w)
 40' GOMCW
 (5g,12o,14m,69w)
 744' Water
 IH 2708#
 IF 52-264#
 ISIP 690#
 FF 260-458#
 FSIP 692#
 FH 2587#
 CL 55000
 Rw .15 @ 62°F
 Temp 122°F

+46 Unit Gas Kick

+112 UGK, no recycle, Trip gas??

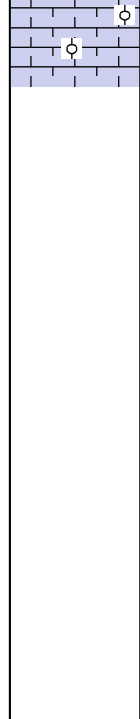
+70 UGK, 35 Unit recycle
DST #2 5321-5337
 30-60-60-90
 FB, BOB/8" NBB
 WB, BOB/40" NBB
 332' GIP
 REC: 40' SOCM
 IH 2777#
 IF 26-27# ISIP 915#
 FF 27-40# FSIP 835#
 FH 2668#
 TEMP 118°F

+36 Units, no recycle

Geolograph not marking

RTD 5430
2:55 PM
July 15, 2014

5430
5440
5450
5460
5470
5480
5490



WS-PS, predominately off white, crm to lt. tan, some brn, f-xln matrix, oolitic A.A, some partially broken ooids, ringed texture in x-section, NS, Chert, tan, gray, lots of SH coming in...cavings

feet correctly near bottom of hole!
Geologist read 5430 but drill time had marks for 4 extra feet