

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	PETERSON 1
Doc ID	1348436

All Electric Logs Run

Density/Neutron Log
Dual Induction Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	White Exploration, Inc.
Well Name	PETERSON 1
Doc ID	1348436

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	5468 - 5474	See attachment	5468 - 5474

Attached to ACO-1 Form for

WHITE EXPLORATION, INC.
PETERSON #1
2140' FNL and 1990' FEL
Section 7-29S-40W
Stanton County, Kansas
API# 15-187-21335-00-00

Surface Casing Cement

Cemented with 595 sacks 65/35 Cement with 6% gel and 3% CC and ¼#/sack Pheno-seal. Followed by 200 sacks of Common Cement with 2% CC and ¼#/sack of Pheno-seal. Cement circulated to surface. Cement fell 21' from top, fill up with 30 sacks of Cement from top.

Production Casing Cement

Cemented with 60 sacks of H-Con Cement with 3% CC, and ¼# Pheno Seal/sack , and 200 sacks of H-Long Cement with 10% salt, 5# Kol-Seal/sack, .25% Defoamer and .6% Fluid Loss additive.

Cemented thru DV Tool @ 3186' with 315 sacks of H-Con Cement with 3% CC, and ¼# Pheno-Seal/sack followed by 100 sacks of Common Cement with 2% CC and ¼# Pheno-Seal/sack.

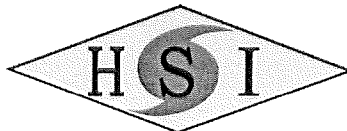
Plug Mouse Hole with 20 sacks and Rat Hole with 30 sacks of Common Cement with 2 % CC and ¼# Pheno-Seal/sack. Job by Hurricane Services.

Acid/Fracture

Acidize with 1200 gallons of 7-1/2% MCA Acid
Acidize with 500 gallons of 12% MCA Acid

Frac with 14,000# of 16/30 Sand, 3000# of 16/30 Resin Coated sand with 18.500 gallons of 25# Crosslinked gel

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: White Exploration Inc.	Date: 1/26/2017	Ticket No.: 100716
Field Rep: Terry Baird		
Address:		
City, State:		
County, Zip:		

Field Order No.: 100716	Open Hole:	Perf Depths (ft)	Perfs
Well Name: Peterson #1	Casing Depth: 1720'		
Location: Johnson City	Casing Size: 8 5/8 24#		
Formation:	Tubing Depth:		
Type of Service: Surface	Tubing Size:		
Well Type: Oil	Liner Depth:		
Age of Well: New	Liner Size:		
Packer Type:	Liner Top:		
Packer Depth:	Liner Bottom:		
Treatment Via: Casing	Total Depth: 1733'		
		Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
3:30 PM					Called Out			
8:00 PM					On Location W/ FE			
8:30 PM					On Location W/ Trucks			
					Hold Safety Meeting Spot & Set Up Trucks			
					Run 41 Joints 8 5/8 24# Casing Set @ 1720'			
					Reg Guide Shoe & AFU Insert First Jt=42.17'			
					Centralizers on Jt's 1/2 way First Jt 30-31			
					Cement Basket On Jt Pin 31			
2:30 AM					Start Casing			
4:30 AM					Casing On Bottom Drop Ball			
4:45 AM					Hook Up To Casing & Break Circulation W Rig			
6:13 AM	4.0		100.0		Start Pumping H2O			10.00
6:15 AM	5.0		100.0		Start Mix Lead 400 Sx H-Con 3%C.C. 1/4#/Sx Pheno-Seal			
					11.6 #/Gal			
6:52 AM	6.0		150.0		Start Mix Tail 200 Sx Common 2%C.C. 1/4#/Sx Pheno-Seal			201.00
					14.8 #/Gal			
7:03 AM					Shut Down Release 8 5/8 Top Rubber Plug			49.00
7:05 AM	3.0		100.0		Start Displacement H2O			
TOTAL:						-	-	368.00

Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
6.0	4.0	800.0	250.0

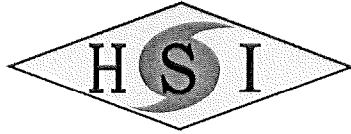
PRODUCTS USED

400 sx H-Con 3% Calcium Chloride 1/4#/Sx Pheno-Seal
 200 Sx Common 2% Calcium Chloride 1/4#/Sx Pheno-Seal

Treater: Todd Seba

Customer: Terry Baird

TREATMENT REPORT

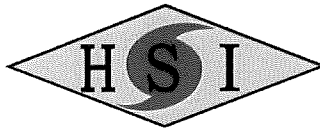


HURRICANE SERVICES INC

TIME	INJECTION RATE FLUID	INJECTION RATE N2/CO2	PRESSURE STP	PRESSURE ANNULUS	REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbbls)
					75 Out Circulate Cement To Pit			
7:42 AM	2.0		800.0		Plug Landed			108.00
7:50 AM					Release Psi & Held			
					WOC Cement Fell 21'+-			
9:45 AM					Top Off 30 Sx Common 2%CC1/4#Pheno-Seal			
					Wash Up & Rack Up Pump Truck			
10:30 AM					Off Location			
					Thank You			
					Please Call Again			
					Todd Jake Chuck Brady			
					Circulate 60 Sacks Lead To Pit			

Activity provided on this page is calculated in the summary and totals on page 1

TREATMENT REPORT



HURRICANE SERVICES INC

Customer: White Exploration Inc.	Date: 2/2/2017	Ticket No.: 100718
Field Rep:		
Address:		
City, State:		
County, Zip:		

Field Order No.: 100718	Open Hole:	Perf Depths (ft)	Perfs
Well Name: Peterson #1	Casing Depth: 5700'		
Location: Johnson City	Casing Size: 5.5 15.5 #		
Formation:	Tubing Depth:		
Type of Service: 2 Stage Longstring	Tubing Size:		
Well Type: Oil	Liner Depth:		
Age of Well: New	Liner Size:		
Packer Type:	Liner Top:		
Packer Depth:	Liner Bottom:		
Treatment Via: Casing	Total Depth: 5702'		
		Total Perfs	0

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbbls)
	FLUID	N2/CO2	STP	ANNULUS				
10:30 PM					Called Out			
5:15 AM					On Location W/FE			
					Run 129 JI's 5 1/2 15.5 # Casing Set @ 5700'			
					1 JI=20.95' AFU Float Shoe & Latch Down Baffle			
					Centralizers on JI's 2-4-5-6-7-8-10-12-16-20-24-28			
					Cement Basket JI's 2-57 14 Scratchers On JI's 6-7			
					Dv Tool JI' 57=3186'			
5:45 AM					Start Casing			
9:00 AM					Casing on Bottom & Drop Ball			
9:15 AM					Hook Up To Casing & Break Circulation W/Rlg			
11:12 AM	4.6		250.0		Start Pumping Preflushes			
					5 BBL's H2O			5.00
					12 BBL's Mud Flush			12.00
					3 BBI's H2O			3.00
11:19 AM	5.8		450.0		Start Mix Lead 60 Sx H-Con 3% C.C. 1/4#Sx PS @ 12.1 #/Gal			27.36
11:26 AM	5.5		400.0		Start Mix Tail 200 Sx H-Long 10% Salt 5#Sx Kolseal			51.29
					1%Gel >6% CFL-160 .25% CAF-38 @ 15.0 #/Gal			
11:40 AM					Shut Down Clear Pump & Lines Release LD Plug			
TOTAL:						-	-	717.65

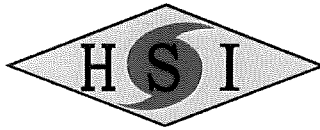
Max Fl. Rate	Avg Fl. Rate	Max PSI	Avg PSI
7.0	4.0	1,500.0	517.0

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Treater: Todd Seba

Customer: Terry Baird

TREATMENT REPORT



HURRICANE SERVICES INC

TIME	INJECTION RATE		PRESSURE		REMARKS	PROP (lbs)	HCL (gls)	FLUID (bbls)
	FLUID	N2/CO2	STP	ANNULUS				
11:50 AM	2.0		-		Start Displacement 2% KCL			2.00
	7.0		250.0		Inc Rate			
			550.0		90 Out Lift Psi			90.00
	5.0		800.0		127 Out Slow Rate Stop Rotating			37.00
12:12 PM	3.0		1,000.0		Plug Down			136.00
			1,500.0		Psi Up Let Set 5 Min			
					Release Psi & Float Held			
12:20 PM					Drop Open Tool Load Close Plug			
12:36 PM	2.0		800.0		Open DV Tool W/Pump Truck			2.00
					Pump Total 5 BBI's			
12:45 PM					Shut Down Hook up To Rig Circulate 2 Hours			
2:30 PM					Hook Up to Casing			
2:33 PM	3.2		80.0		Start Pumping H2O			10.00
2:38 PM	3.0		50.0		Plug Rat & Mouse holes			8.00
2:45 PM	5.0		200.0		Start Mix Lead 315 Sx H-Con 3% C.C. 1/4 #/sx PS @12#/Gal			144.00
3:18 PM	4.0		110.0		Start Mix Tail Common 2% C.C. 1/4 #/sx PS @ 14.8#/Gal			25.00
3:26 PM					Shut Down Wash Up Truck & Release Closing Plug			15.00
3:34 PM	2.0		100.0		Start Displacement			
	5.0		100.0		Inc Rate			2.00
	5.0		550.0		Lift Psi 45 Out			43.00
	3.0		650.0		73 Slow Rate			28.00
	2.5		1,000.0		77 out Land Closing Plug			77.00
			1,500.0		Psi Up 1500 Let Set 5 Min			
					Release & Held 1/2 //bbl /back			
					Rack Up Truck			
					Off Location			
					Thank You			
					Please Call Again			
					Todd Jake Chuck Brady Mark			
					Circulate 55 Sacks H-Con To Pit On Top Stage			
					Bottom Stage Lead 60 Sacks H-Con 3 % C.C. 1/4#/Sx PS			
					200 Sacks H-long 10 % Salt 5 #/Sx Kolseal .6 % CFL-160			
					.25 % CAF-38 1% Gel			
					Top Stage Lead 315 Sacks H-Con 3% C.C. 1/4 #/Sx PS			
					Tail 100 Sacks Common 2% C.C. 1/4 #/sx PS			
					Plug Rat & Mouse Hole			
					50 Sacks Common 2% C.C. 1/4 #/SxPS			

Activity provided on this page is calculated in the summary and totals on page 1



DRILL STEM TEST REPORT

Prepared For: **White Exploration**

1635 N Waterfront Pkwy
Suite 100
Wichita KS 67206

ATTN: Andy White

Peterson #1

7-29-40w Stanton,KS

Start Date: 2017.01.31 @ 02:02:15

End Date: 2017.01.31 @ 11:51:30

Job Ticket #: 65697 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.02.01 @ 14:24:39



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

White Exploration
1635 N Waterfront Pkw y
Suite 100
Wichita KS 67206
ATTN: Andy White

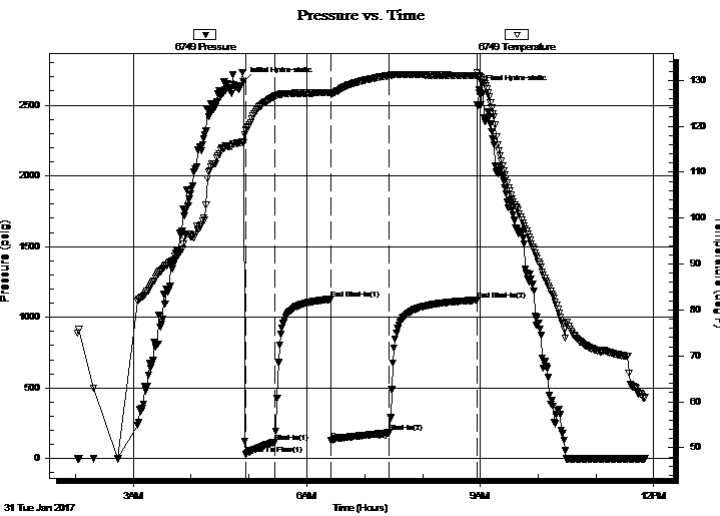
7-29-40w Stanton,KS
Peterson #1
Job Ticket: 65697 **DST#: 1**
Test Start: 2017.01.31 @ 02:02:15

GENERAL INFORMATION:

Formation: **Keys Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:56:45
Time Test Ended: 11:51:30
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Roberts
Unit No: 81
Interval: **5420.00 ft (KB) To 5445.00 ft (KB) (TVD)**
Reference Elevations: 3322.00 ft (KB)
Total Depth: 5455.00 ft (KB) (TVD) 3312.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 6749 Outside
Press@RunDepth: 183.44 psig @ 5421.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.01.31 End Date: 2017.01.31 Last Calib.: 2017.01.31
Start Time: 02:02:15 End Time: 11:51:30 Time On Btm: 2017.01.31 @ 04:54:30
Time Off Btm: 2017.01.31 @ 08:58:30

TEST COMMENT: IF:BOB in 24 min.
IS:Built to 1/8" blow
FF:Built to 9" blow
FS:Built to weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2666.29	116.49	Initial Hydro-static
3	31.94	119.13	Open To Flow (1)
33	117.55	126.58	Shut-In(1)
91	1127.43	127.35	End Shut-In(1)
91	128.01	127.02	Open To Flow (2)
151	183.44	131.05	Shut-In(2)
242	1121.23	131.06	End Shut-In(2)
244	2607.13	130.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	sw 100%sw (collars)	0.61
124.00	gcmw 2%g 3%m 95%w (collars)	0.61
124.00	gcom 2%g 3%o 95%m	1.21
0.00	GIP= 186 ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

White Exploration
1635 N Waterfront Pkwy
Suite 100
Wichita KS 67206
ATTN: Andy White

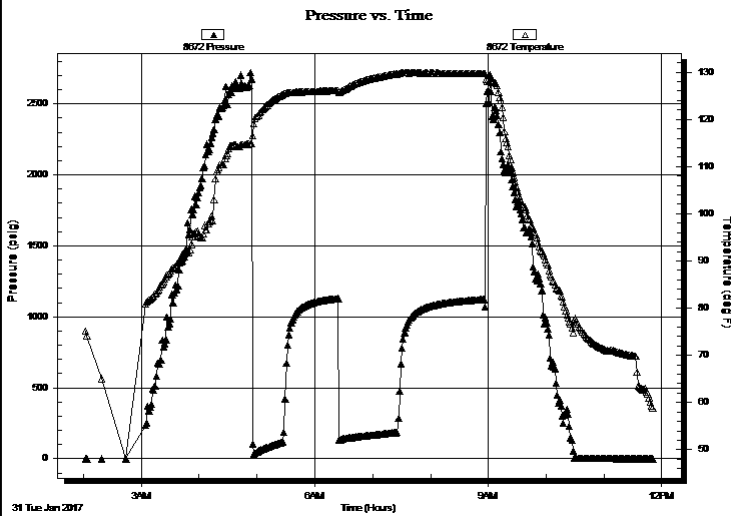
7-29-40w Stanton,KS
Peterson #1
Job Ticket: 65697 **DST#: 1**
Test Start: 2017.01.31 @ 02:02:15

GENERAL INFORMATION:

Formation: **Keys Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 04:56:45 Tester: Mike Roberts
Time Test Ended: 11:51:30 Unit No: 81
Interval: 5420.00 ft (KB) To 5445.00 ft (KB) (TVD) Reference Elevations: 3322.00 ft (KB)
Total Depth: 5455.00 ft (KB) (TVD) 3312.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
Press@RunDepth: psig @ 5421.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.01.31 End Date: 2017.01.31 Last Calib.: 2017.01.31
Start Time: 02:02:15 End Time: 11:51:30 Time On Btm:
Time Off Btm:

TEST COMMENT: IF:BOB in 24 min.
IS:Built to 1/8" blow
FF:Built to 9" blow
FS:Built to weak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
124.00	sw 100%sw (collars)	0.61
124.00	gcmw 2%g 3%m 95%w (collars)	0.61
124.00	gcom 2%g 3%o 95%m	1.21
0.00	GIP= 186 ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

White Exploration

7-29-40w Stanton,KS

1635 N Waterfront Pkwy
Suite 100
Wichita KS 67206
ATTN: Andy White

Peterson #1

Job Ticket: 65697

DST#: 1

Test Start: 2017.01.31 @ 02:02:15

Tool Information

Drill Pipe:	Length: 5092.00 ft	Diameter: 3.80 inches	Volume: 71.43 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 306.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 72.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	5420.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			5390.00	
Sampler	3.00			5393.00	
Shut In Tool	5.00			5398.00	
Hydraulic tool	5.00			5403.00	
Jars	5.00			5408.00	
Safety Joint	3.00			5411.00	
Packer	5.00			5416.00	31.00 Bottom Of Top Packer
Packer	4.00			5420.00	
Stubb	1.00			5421.00	
Recorder	0.00	8672	Inside	5421.00	
Recorder	0.00	6749	Outside	5421.00	
Perforations	19.00			5440.00	
Bullnose	5.00			5445.00	25.00 Bottom Packers & Anchor

Total Tool Length: 56.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

White Exploration

7-29-40w Stanton,KS

1635 N Waterfront Pkw y
Suite 100
Wichita KS 67206
ATTN: Andy White

Peterson #1

Job Ticket: 65697

DST#: 1

Test Start: 2017.01.31 @ 02:02:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

14300 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	sw 100%sw (collars)	0.610
124.00	gcmw 2%g 3%m 95%w (collars)	0.610
124.00	gcom 2%g 3%o 95%m	1.211
0.00	GIP= 186 ft	0.000

Total Length: 372.00 ft

Total Volume: 2.431 bbl

Num Fluid Samples: 0

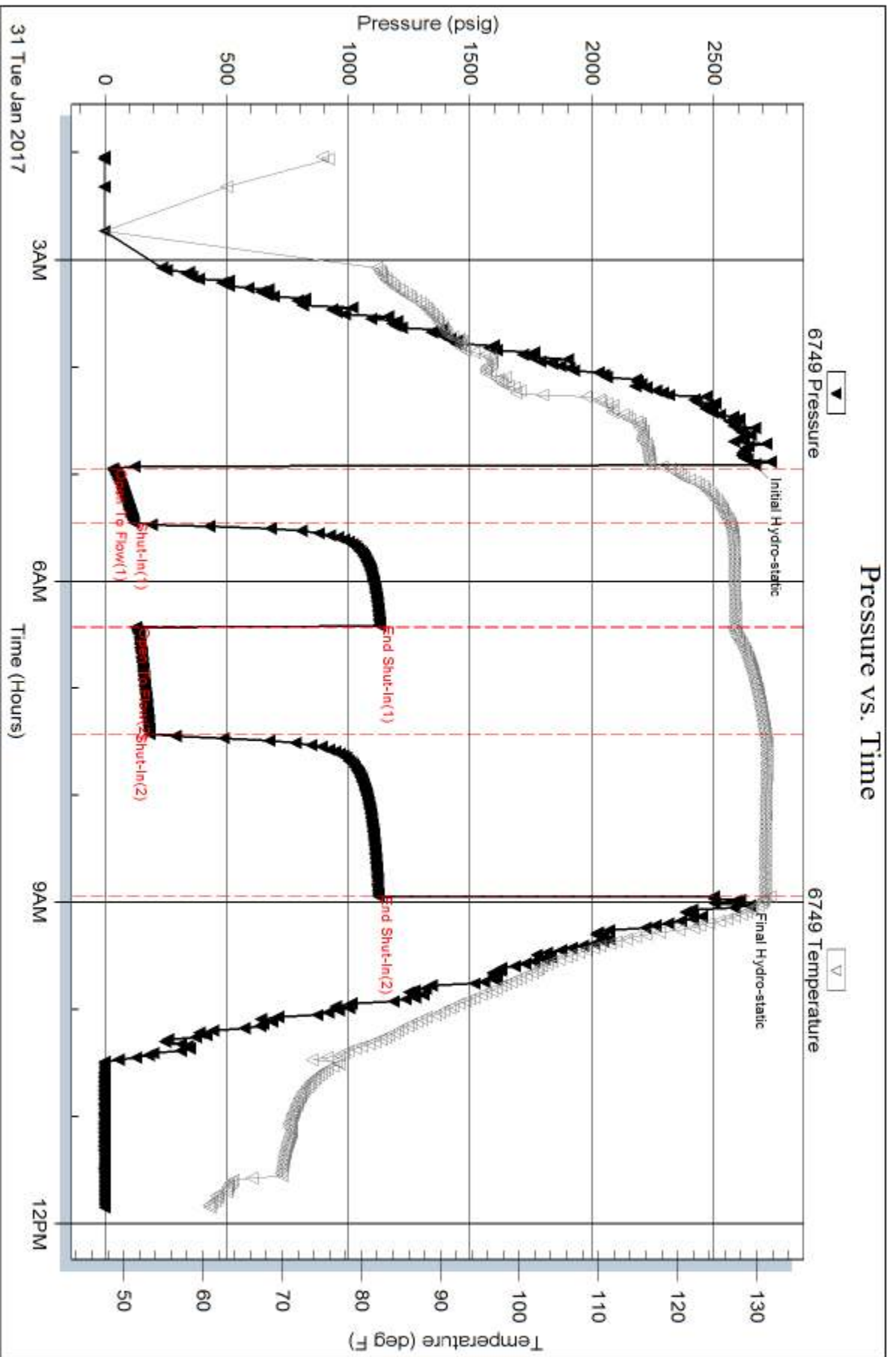
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .625@53.5= 14,300 ppm



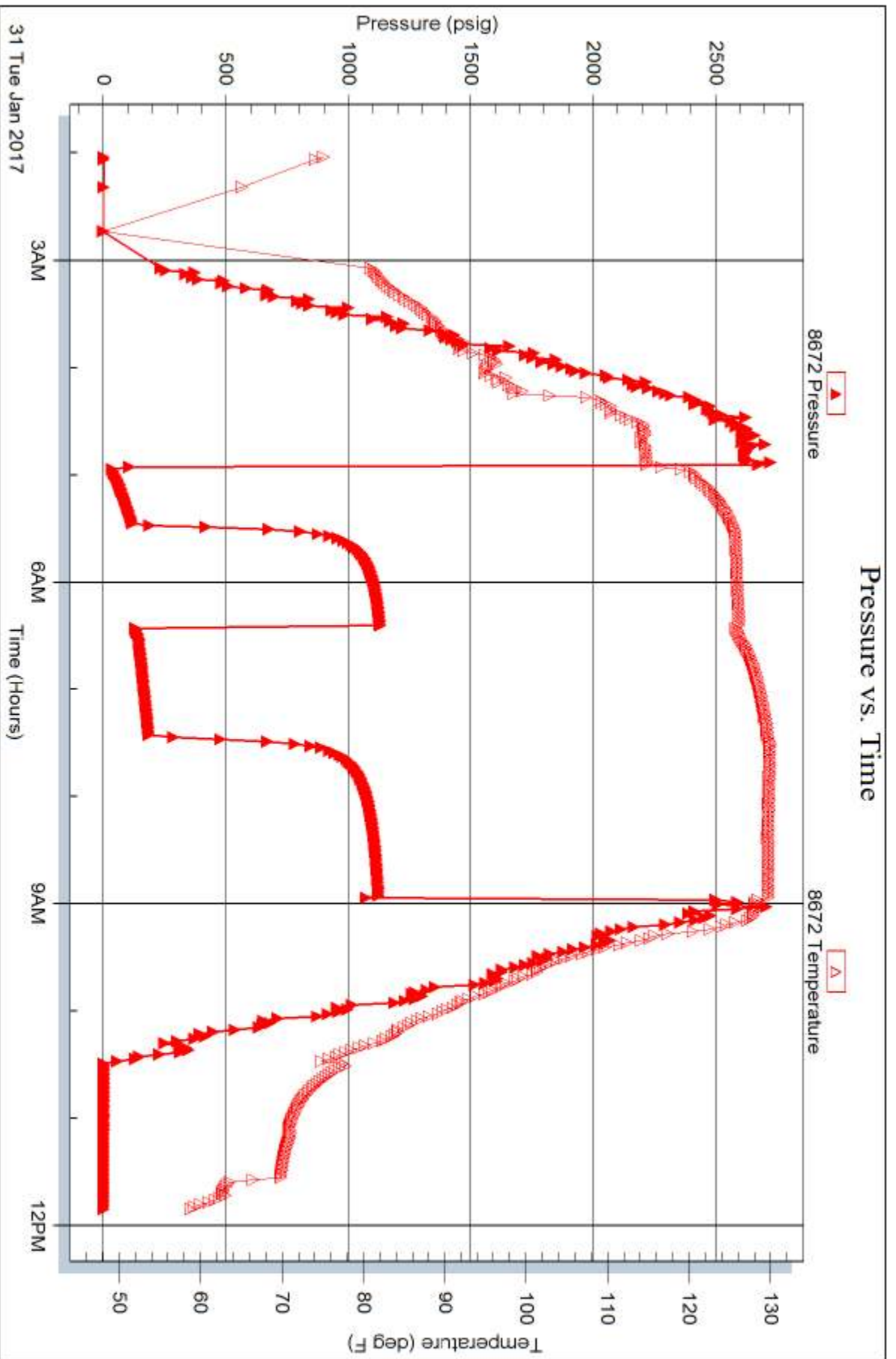
Serial #: 8672

Inside

White Exploration

Peterson #1

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65697**

Well Name & No. Peterson #1 Test No. 1 Date 1-30-17
 Company White Exploration Elevation _____ KB _____ GL _____
 Address 1635 N Waterfront Pkwy Suite 100 Wichita KS 67206
 Co. Rep / Geo. Andy White Rig _____
 Location: Sec. 7 Twp. 29 Rge. 40w Co. Stanton State KS

Interval Tested 5420-5445 Zone Tested Keys Sand
 Anchor Length 25 Drill Pipe Run 5092 Mud Wt. 9.3
 Top Packer Depth 5415 Drill Collars Run 306 Vis 63
 Bottom Packer Depth 5420 Wt. Pipe Run Ø WL 6.4
 Total Depth 5445 Chlorides 400 ppm System LCM 16 - Pumped Pill
 Blow Description IF: BOB in 24 Min
IS: Built to 1/8" Blow
FF: Built to 9" Blow
FS: Built to weak surface Blow

Rec	Feet of		%gas	%oil	%water	%mud
120	Feet of <u>GIP =</u>	186	100			
124	Feet of <u>gcom</u>		2	3	95	
124	Feet of <u>gcmw</u>	(collars)	2	95	3	
124	Feet of <u>SW</u>	(collars)		100		
Rec Total	<u>372</u>	BHT <u>130</u>	Gravity _____	API RW <u>625 @ 53.5</u>	F Chlorides <u>14300</u>	ppm

(A) Initial Hydrostatic 2666
 (B) First Initial Flow 31
 (C) First Final Flow 117
 (D) Initial Shut-In 1127
 (E) Second Initial Flow 128
 (F) Second Final Flow 183
 (G) Final Shut-In 1121
 (H) Final Hydrostatic 2607

Test \$1250.00/-
 Jars \$250.00/-
 Safety Joint \$75.00/-
 Circ Sub NC
 Hourly Standby _____
 Mileage 242RT \$181.50/-
 Sampler \$250.00/-
 Straddle _____
 Shale Packer \$250.00/-
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$2256.50/-

T-On Location 10:12
 T-Started 02:02
 T-Open 04:55
 T-Pulled 08:55
 T-Out 11:51
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2256.50
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 60
 Final Flow 60
 Final Shut-In 90

Approved By [Signature] Our Representative Mike Roberts

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING, INC.

1515 Commerce Parkway • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 65697 Date 1-30-17
 Company Name White Exploration
 Lease Peterson #1 Test No. 1
 County Stanton Sec. 7 Twp. 29 Rng. 40w

SAMPLER RECOVERY

Gas / ML
 Oil 1 ML
 Mud 1 ML
 Water ~~748~~ 748 ML
 Other / ML
 Pressure / ML
 Total 750 ML

PIT MUD ANALYSIS

Chlorides 400 ppm.
 Resistivity Ø ohms @ _____ F
 Viscosity 63
 Mud Weight 9.3
 Filtrate 6.4
 LCM 16# Pumped
 Other Bill at Test

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
 Chlorides 14,300 ppm.
 Gravity / corrected @60F

PIPE RECOVERY

~~TOP
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 MIDDLE
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.
 BOTTOM
 Resistivity _____ ohms @ _____ F
 Chlorides _____ ppm.~~



**Scale 1:240 (5"=100') Imperial
Measured Depth Log**

Well Name: Peterson #1
Location: 7-29S-40W
License Number: API: 15-187-21335
Spud Date: 01/25/16
Surface Coordinates: 2140' FNL, 1990' FEL

Region: Stanton Co., KS
Drilling Completed: 02/01/16

**Bottom Hole
Coordinates:**
Ground Elevation (ft): 3308 **K.B. Elevation (ft):** 3319
Logged Interval (ft): 4200 **To:** 5700 **Total Depth (ft):** 5700
Formation: Mississippian
Type of Drilling Fluid: Chemical

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

OPERATOR

Company: White Exploration, Inc.
Address: 1635 N. Waterfront Pkwy
St. 100
Wichita, KS, 67206

GEOLOGIST

Name: Andrew White
Company: White-Exploration
Address:

Remarks

Due to log evaluation, production casing was decided to be run on the Peterson #1 to evaluate the Keyes

General Info

Drilling Contractor: Murfin Rig 21

Logs: ELI Wireline Services
Compensated Density/Neutron, Dual, Micro, Sonic

Drilling Mud: Mudco/Service Mud, Inc.

Surveys: 652'-.25, 1001'-.25, 1733'-.5, 2588'-.5, 3603'-.25, 5700',1.25

Daily Status

01/25/17: Spud Well @ 1:45 p.m.

01/26/17: Drilling ahead @ 1065'

01/27/17: Cementing Surface Casing @ 1733', cemented with 595 sacks 65/35 cement with 6% gel, and 3% CC and 1/4# sack Pheno-seal. Followed by 200 sacks Common Cement with 2% CC and 1/4# sack of Pheno-seal. Cement fell 21' from top, fill up with 30 sacks

01/28/17: Drilling ahead @ 2336'

01/29/17: Drilling ahead @ 3949'

01/30/17: Drilling ahead @ 5124'

01/31/17: Coming out of hole after DST #1 @ 5445'

02/01/17: Circulating for logs @ 5700'

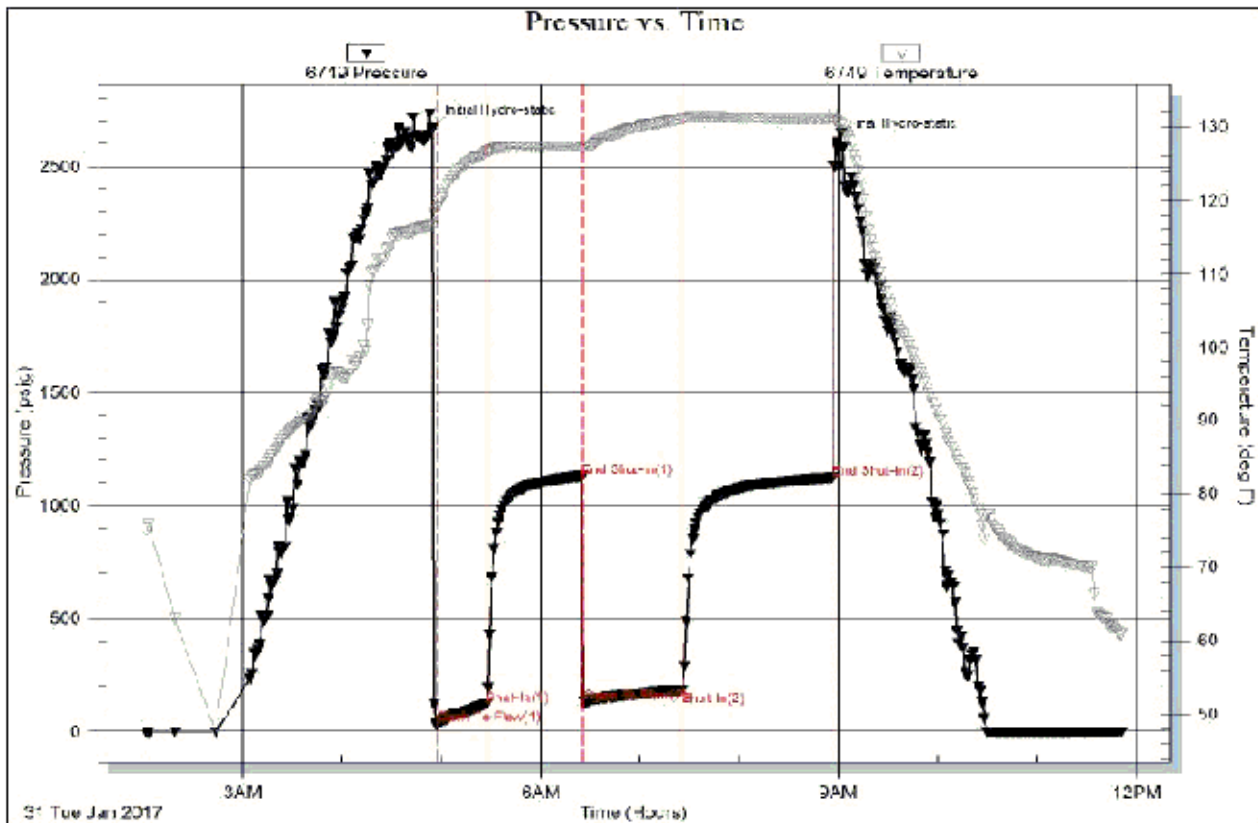
White Ex				White		Huber	
Peterson #1				Out of Sight #1		Pearl Bennett 7-1	
7-29S-40W				7-29S-40W		7-29S-40W	
2140' FNL, 1990' FEL				330' FNL, 1905' FEL		2050' FSL, 1600' FWL	
KB: 3319				KB: 3325		KB: 3326	
Sample	Log	Datum	Relationship		Relationship		
Heebner		3684	+12		+15		
Lansing		3747	+8		+16		
Cherokee	4546	4546	-4		0		
Morrow	5024	5022	-9		-6		
LMM	5343	5342	1		-2		
Miss	5562	5560	-44		+5		

Serial #: 6740

Outside White Exploration


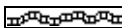
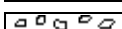
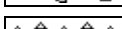
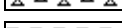


Peterson #1





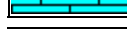

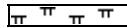

DST Test Number: 1

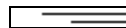
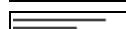





ROCK TYPES









LITHOLOGY

-  Anhy
-  Bent
-  Brec
-  Cht
-  Clyst
-  Coal
-  Congl

-  Dol
-  Gyp
-  Igne
-  Lmst
-  Meta
-  Mrlst
-  Salt
-  Shale


-  Shcol
-  Shgy
-  Sltst
-  Ss
-  Till

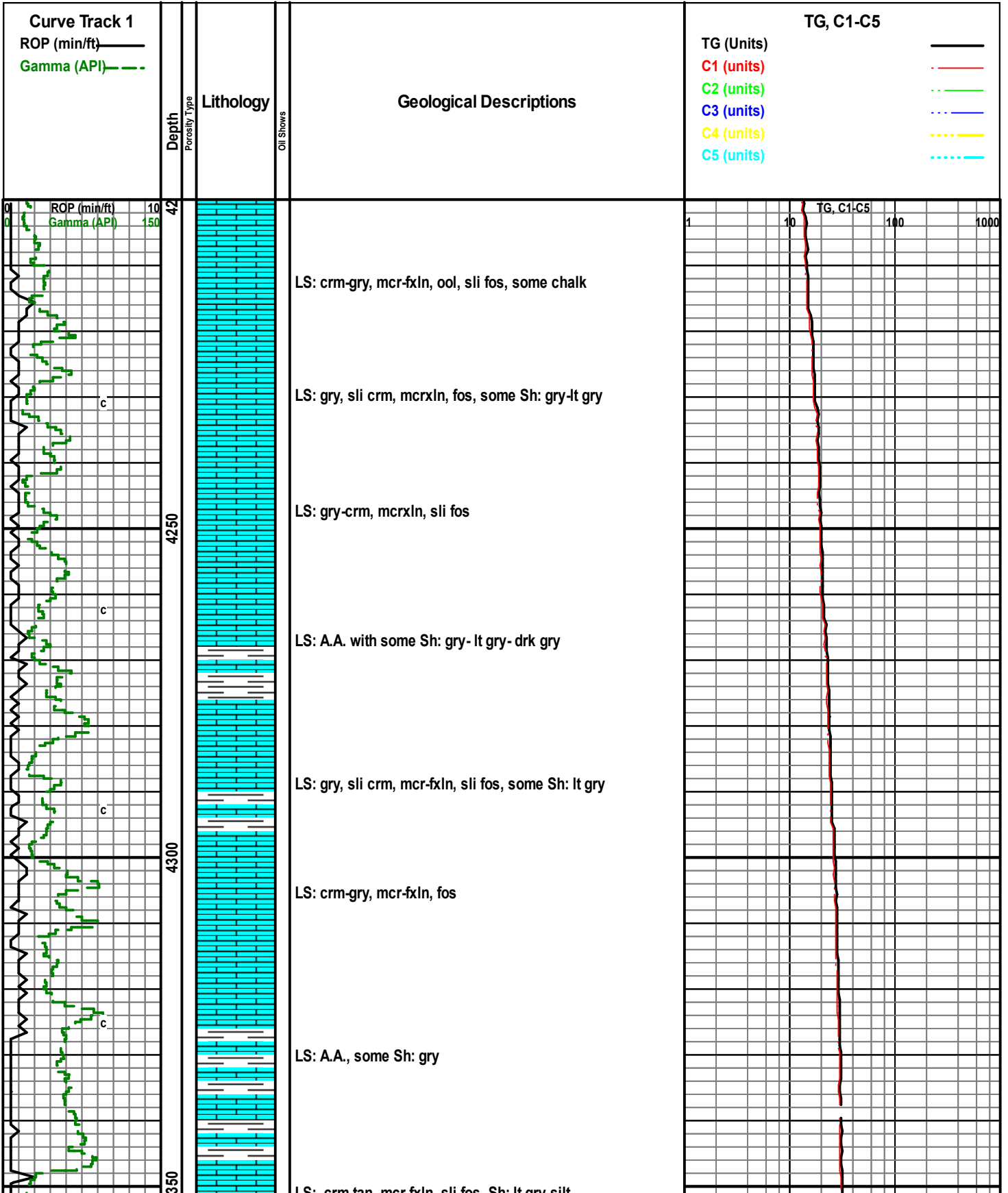
- STRINGER**
-  Anhy

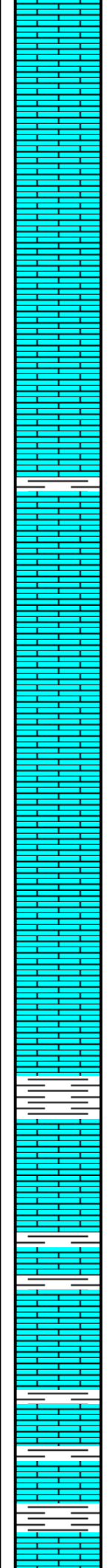
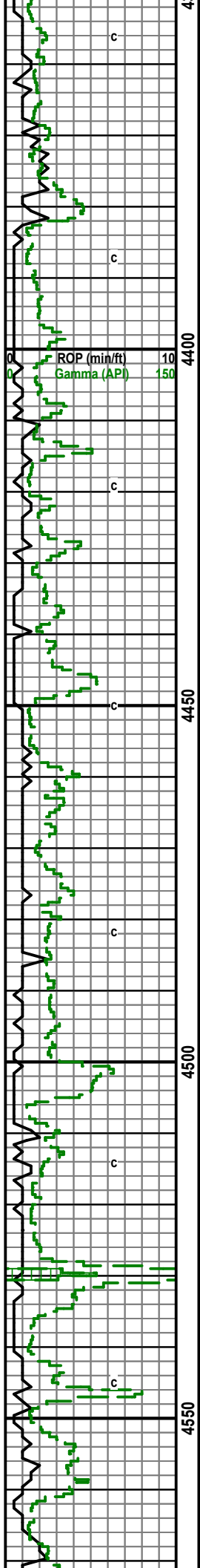
-  Arg
-  Bent
-  Coal
-  Dol
-  Gyp
-  Ls
-  Mrst
-  Sltstrg

-  Ssstrg

OIL SHOW

-  Even
-  Spotted
-  Ques
-  Dead





LS: crm-tan, mcrfxln, sli fos, Sh: lt gry silt

LS: crm, mcrxln

LS: tan-crm, ool, fxln, some white mcrxln, sli chalky

LS: crm, mcrxln, some pieces ool, some Sh: lt gry

LS: crm-tan, mcrxln, some fxln, sli fos, very chalky

LS: crm-gry, mcrxln, some fxln, sli fos, chalky

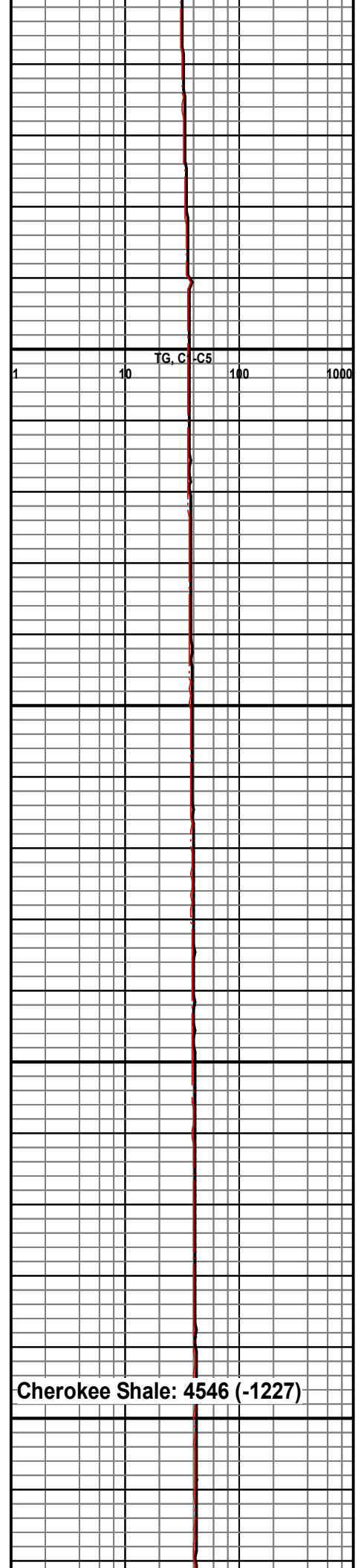
LS: A.A.

LS: gry, mcrxln, some fxln, sli fos, some Sh: gry

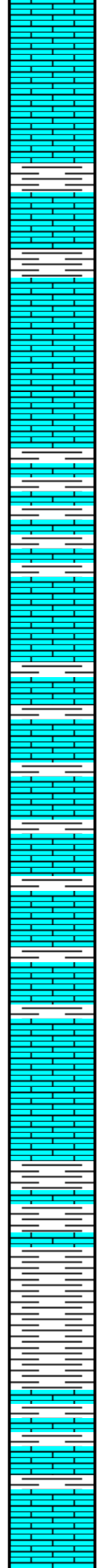
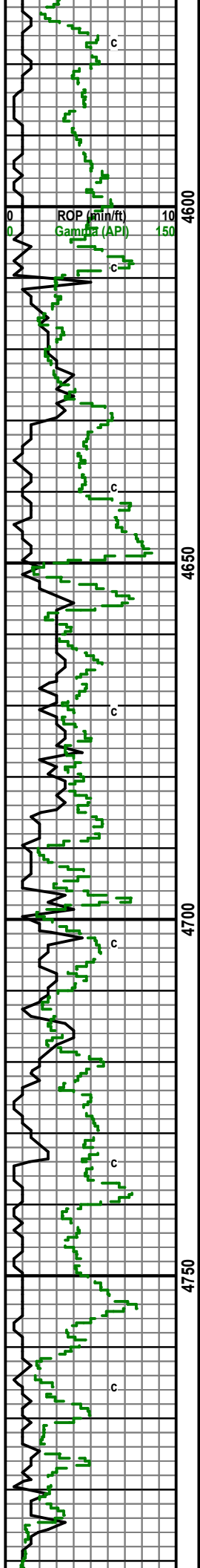
LS: gry-crm, mcrxln, Sh: drk gry, some blk (pr)

LS: crm, sli tan, mcr-fxln, sli chalky (pr)

LS: crm-tan, sli gry, fxln, some mcrxln, sli chalky some Sh: gry-drk gry (pr)



Cherokee Shale: 4546 (-1227)



LS: tan-crm, sli gry, mcrxln, sli fos

Sh: gry-drk gry, some LS: A.A.

LS: crm-gry, mcrxln, sli fos, Sh: gry-drk gry

LS: A.A. with fxln-mxln, Sh: A.A.

A.A.

A.A.

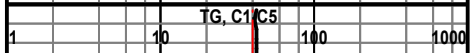
LS: crm, sli tan, mcrxln, sli fos, chalky, Sh: gry- lt gry- drk gry

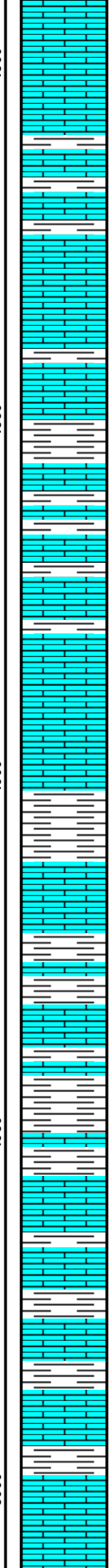
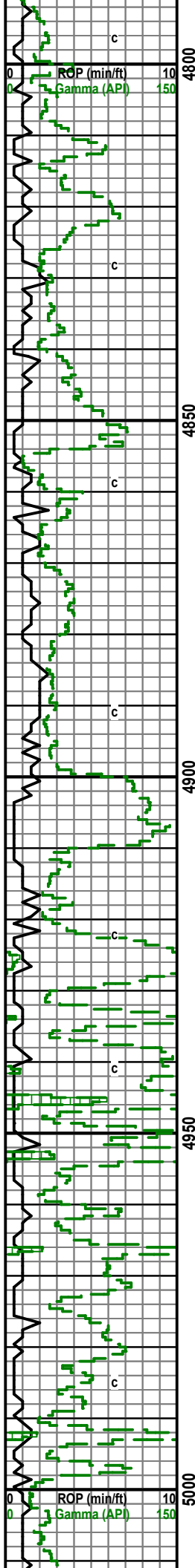
LS: crm-gry, mcrxln, sli fos, Sh: gry- lt gry

Sh: gry-drk gry, some LS: A.A.

Sh: gry -drk gry

LS: crm-sli tan, mcrxln some fxln, sli chalky, Sh: A.A.





c
 LS: crm-tan, f-mcrxln, fos, sli chalky

 LS: A.A. with Sh: gry-drk gry

 LS and Sh: A.A.

 Sh: gry- drk gry- lt gry, LS: crm-gry, mcr-fxln, sli fos

 LS: crm-tan, sli gry, Sh: A.A.

 LS: gry, mcrxln, Sh: gry-drk gry

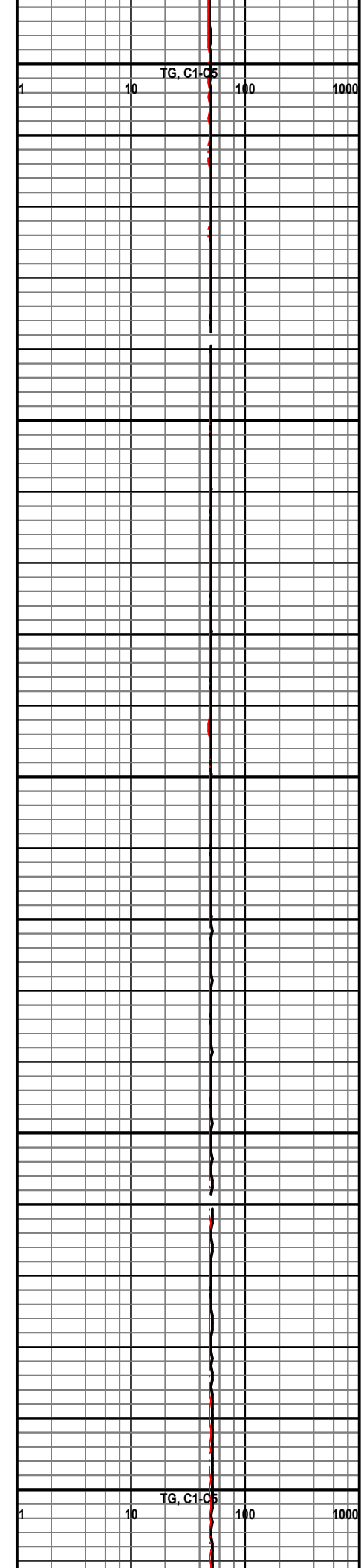
 LS: tan-crm, sli gry mcrxln, Sh: drk gry-gry

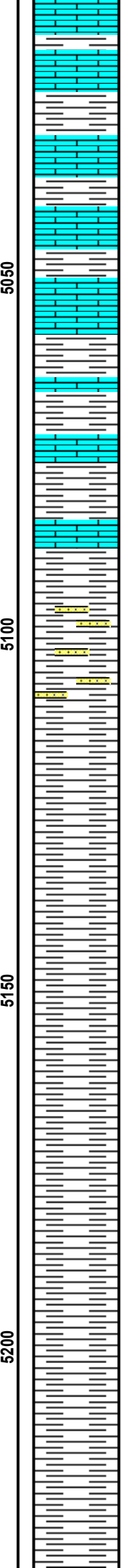
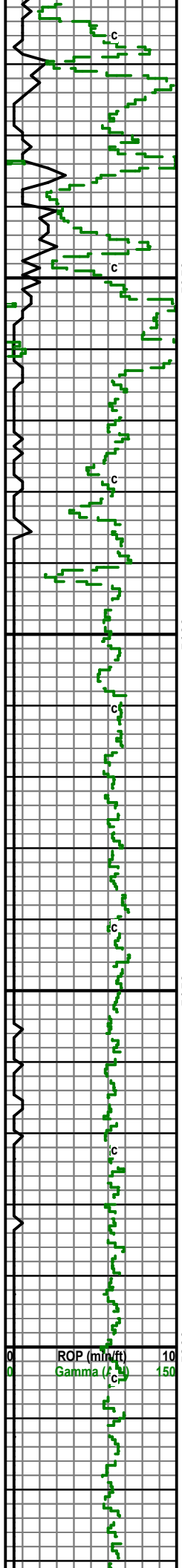
 A.A.

 A.A.

 LS: gry, sli crm, mcrxln, Sh: drk gry-gry

 Sh: gry-drk gry- lt gry, some LS: A.A.





Sh: drk gry-gry, LS: gry, sli crm, mcrxln

Sh: A.A., LS: gry-crm, mcr-fxln, sli fos

Sh: A.A. some LS: gry, sli crm-tan, f-mcrxln, sli fos, sli sandy

Sh: A.A., LS: gry, sli tan, f-mcrxln

Sh: A.A., some LS gry-crm-tan, f-mcrxln, sli sandy, few pieces SS: f-vfgrn, well sort, sub round, poss, vvsli gas bubble

Sh: gry-lt gry-drk gry, some silty

Sh: A.A.

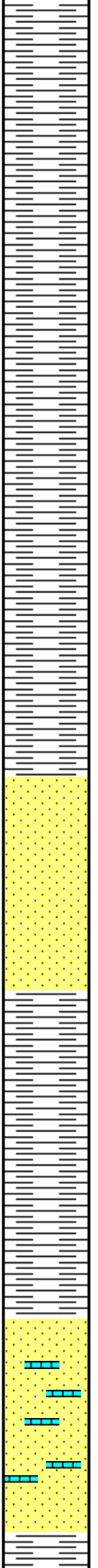
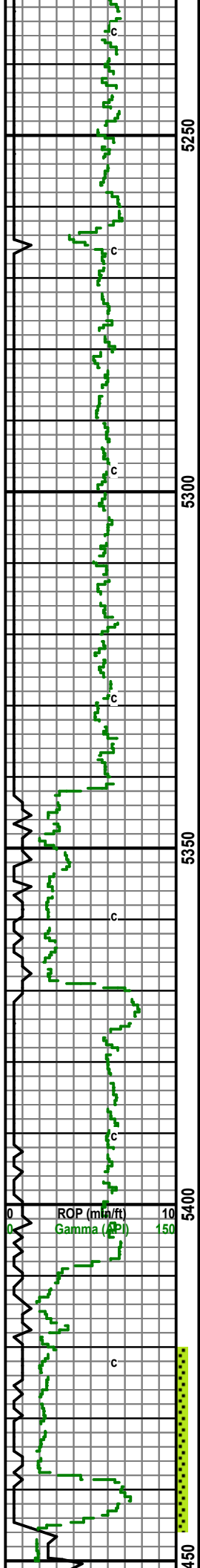
Sh: A.A.

Morrow: 5024 (-1705)

Mudco mdchk
Wt: 9.3 Vis: 63
ph: 11.0 Fil: 6.4
LCM: 16#

ROP (min/ft) 10
Gamma (C) 150

TG, C1-05
1 10 100 1000



Sh: A.A.

Sh: A.A.

SS: clear-opaque, limey, pr sort, ang, no vis por, no show

SS: A.A. with Sh: gry-drk gry

Sh: gry-drk gry- lt gry, some SS: from above

Sh: A.A.

Sh: A.A. with SS: opaque, sli clear, f grn, some mgrn, pr srt, sub ang, glauc, sli pyritie, vssso and gas, pr to dull yellow fluor, no odor, pr-no vis por, sli int por, some dead oil some LS: tan-crm, fxln, some mcrxln, sli sandy in part,

SS: A.A. one piece had frso, LS: and Sh: A.A.

SS: A.A. with more pieces fr SO

Lower Morrow Marker: 5343 (-2024)

Slow RPM from 115-95 TG, C1-C5

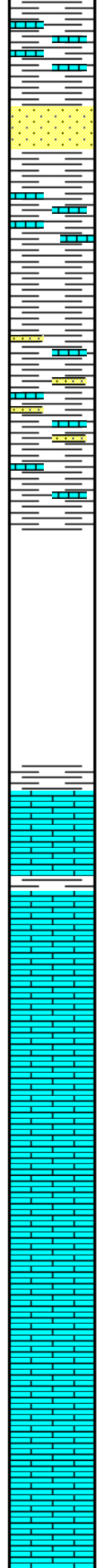
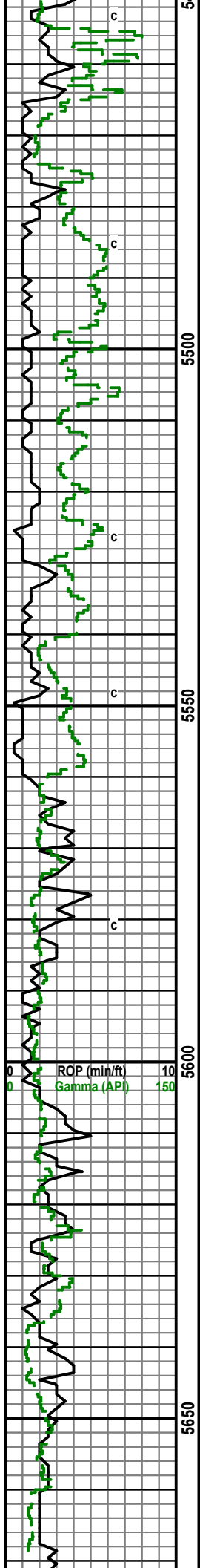
CFS 60 min

CFS 60 min

CFS 60 min

Mudco mdchk
Wt: 9.1 Vis: 64
ph: 11.0 Fil: 6.4

Lost returns on trip in



Sh: gry-drk gry, some lt gry, some LS: gry-crm, mcrxln, dense

sample mostly Sh: A.A. with some red/orange LS: A.A. some sandy with redish hue, few SS clusters, clear-opaque, fgrn, well sort, sub ang-sub round, no show

Sample mostly Sh: gry-drk gry-lt gry, some LS: crm-tan, mcrxln, few pieces SS: clear-part opaque, pr sort, ang

Sh: gry-lt gry, some redish/orange, SS: white, vf-fgrn, well sort, round-sub round, no show

Sh: gry-drk gry-lt gry, some greenish silty,, SS: A.A., LS: crm-tan, mcrxln, sli fos, dense

No Sample

Sh: gry-drk gry-lt gry-red/orange, some SS:white, fgrn, LS: tan-crm-gry, mcrxln,

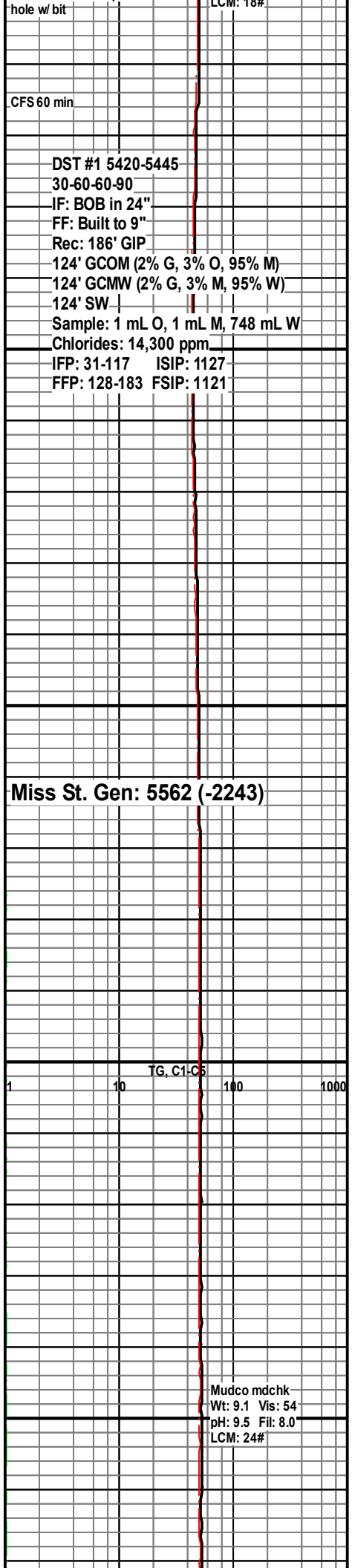
Sh: A.A., some SS and LS: A.A.

Sample A.A. with some LS: crm-tan, fxln, ool,

Sample mostly Sh, more LS: crm-tan, fxln, ool,

Sample A.A.

LS: crm-tan, fxln, sandy in part, very friable, no show



hole w/ bit

LCM: 16#

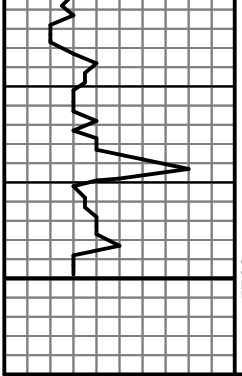
CFS 60 min

DST #1 5420-5445
 30-60-60-90
 IF: BOB in 24"
 FF: Built to 9"
 Rec: 186' GIP
 124' GCOM (2% G, 3% O, 95% M)
 124' GCMW (2% G, 3% M, 95% W)
 124' SW
 Sample: 1 mL O, 1 mL M, 748 mL W
 Chlorides: 14,300 ppm
 IFP: 31-117 ISIP: 1127
 FFP: 128-183 FSIP: 1121

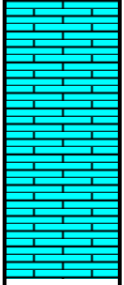
Miss St. Gen: 5562 (-2243)

TG, C1-C5

Mudco mdchk
 Wt: 9.1 Vis: 54
 pH: 9.5 Fil: 8.0
 LCM: 24#



5700



LS: crm-tan, mcrxln, dense

RTD: 5700

LTD: 5701

