

LITHOLOGY STRIP LOG

WellSight Systems

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

Well Name: JF ALBERS #1
Location: NE NE SW NE
License Number: API: 15-193-20,913-00-00
Spud Date: February 24, 2014
Surface Coordinates: 1450' FNL, 1620' FEL Section 26-Twp 10 South - Rge 32 West
Wildcat
Bottom Hole Vertical Hole
Coordinates:
Ground Elevation (ft): 3038 K.B. Elevation (ft): 3048
Logged Interval (ft): 3500 To: 4710 Total Depth (ft): 4710
Formation: Mississippi
Type of Drilling Fluid: Chemical Mud, Displace at 3518'
Region: Thomas County, Kansas
Drilling Completed: March 7, 2014
Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Eternity Exploration, LLC
Address: 338 SPYGLASS Dr
COPPELL, TEXAS 75019+5430

GEOLOGIST

Name: W. Scott Alberg
Company: Alberg Petroleum, LLC
Address: 609 Meadowlark Lane
Pratt, Kansas 67124

FORMATION TOPS

	SAMPLE TOPS	LOG TOPS
ANHYDRITE	2590(+458)	2591(+457)
B/ANHYDRITE	2620(+428)	2620(+428)
TOPEKA	3662(-614)	3664(-616)
HEEBNER	4018(-970)	4019(-971)
TORONTO	4042(-994)	4042(-994)
LANSING	4056(-1008)	4056(-1008)
B/KC	4332(-1284)	4332(-1284)
LENENPAH	4364(-1316)	4365(-1317)
PAWNEE	4456(-1408)	4457(-1409)
MYRIC STATION	4500(-1452)	4502(-1454)
FT SCOTT	4518(-1470)	4521(-1473)
JOHNSON	4592(-1544)	4592(-1544)
MISSISSIPPIAN	4663(-1615)	4664(-1616)
RTD	4710(-1662)	
LTD		4712(-1664)

COMMENTS

Surface Casing: Set 6 joints new 24#, 8 5/8" at 265', 200 sks common, 3% cc, 2% gel, plug down 10:30 am on Feb 25, 2014. Cement did circulate.

Production Casing: None

Deviation Surveys: 266' 1/2, 3/4 - 4174',

Contractor Bit Record: 1- 12 1/4 out @ 266'.

2- 7 7/8" out @ 4380'.

3- 7 7/8" out @ 4710'.

Gas Detector: None

Mud System: Mud Co, Reid Atkins, Engineer

DSTs: by Trilobite Testing

Logged By Nabors Services.

LTD 4712'.

DSTs

DST #1 Lansing D & E

Interval 4114 to 4142', Times 30-60-30-60

1st opening - BOB 12 minutes, no blow back

2nd opening - BOB 10 minutes, no blow back.

Recovery 202' WCM (20% W, 80% M), 248' MCW (80% W, 20% Mud), 310' W with few oil spots on tool (100% W)

Temp 127

IHP 2044# FHP 2012#

IFP 67-227# FFP 232-376#

ISIP 1218# FSIP 1215#

DST #2 H, I, J

4185 to 4274' Times 30-60-30-60

1 st opening - 1/4" blow built to 10", no blow back

2nd opening - weak blow, built to 8", no blow back

Recovery: 263' Mud

IHP 2092# FHP 2068#

IFP 46-106# FFP 105-163#

ISIP 1256# FSIP 1249#

Temp 119

DST #3 4273 to 4380' K, L & Lenepah

Times 30-60-15-60

1st Opening - BOB 2 minutes, no blow back

2nd Opening - BOB 4 minutes, no blow back

Recovery: 253' Mud 315' MCW(50%W, 50% M), 567' W, Chlorides 55,000

IHP 2184# FHP 2139#

IFP 93-449# FFP 466-582#

ISIP 1178# FSIP 1131#

Temp 125

DST #4 4448 to 4544' Pawnee, Myric Station, Ft. Scott

Times 30-60-30-60

1st Opening - Built to 10", no blow back

2nd Opening - Built to BOB in 24 minutes, no blow back.

Recovery : 315' GIP

55' GOCM (30% G, 30% O, 40% M)

IHP 2284# FHP 2177#

IFP 22-31# FFP 28-44#

ISIP 1160# FSIP 1148#

Temp 117

DST # 5 Cherokee & Johnson Zones

Times 30-30-5-pulled.

1st Opening - 3/4 " died to 1/2". no blow back.

2nd Opening - no blow, pulled.

Recovery 15' Mud with oil scum.

IFP 21-25# FFP 25-26#

ISIP 1066# FSIP pulled

IHP2285# FHP 2234#


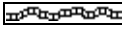
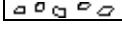
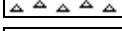
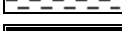








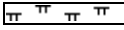

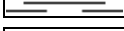

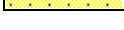



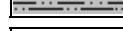

RECOMMENDATIONS

BASED ON SAMPLES SHOWS, DST RESULTS AND LOG CALCULATIONS, IT WAS RECOMMENDED BY ALL PARTIES THAT THIS TEST WELL BE PLUGGED AND ABANDONED.





























































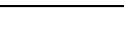








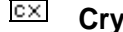








RESPECTFULLY,

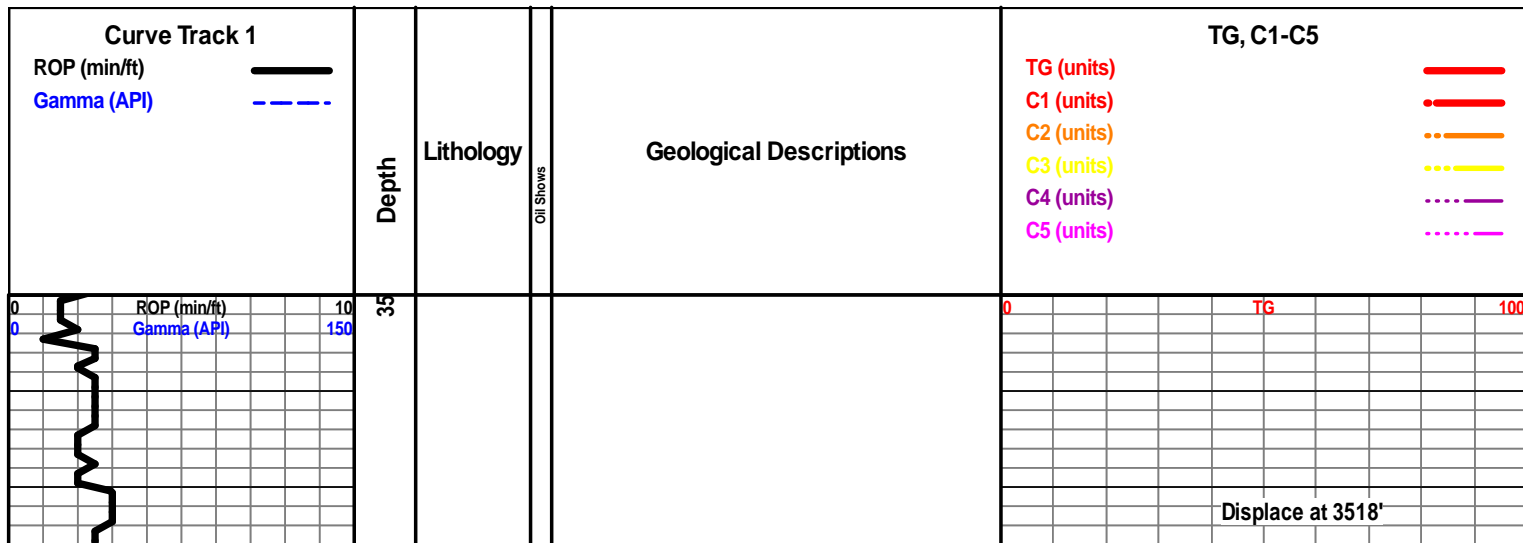
SCOTT ALBERG
PG #54

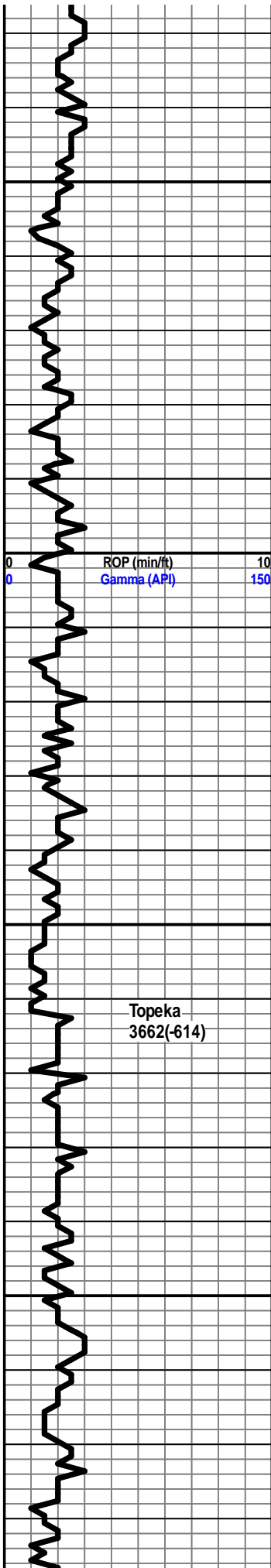
ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst  Coal	 Congl  Sdy dolo  Shy dolo  Dol  Gyp  Sdy lmst	 Lmst  Mrlst  Salt  Shale  Sltst  Ss	 Black sh  Gry sh  Shale  Shyslstst  Sltysh
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ACCESSORIES

MINERAL  Anhy  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Ferrpel  Ferr  Glau  Gyp  Marl  Nodule  Phos  Pyr  Salt  Sandy  Silt	 Chlorite  Dol  Sand  Sltly FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral  Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra	 Pelec  Pellet  Pisolite  Plant  Strom  Fuss  Oomoldic STRINGER  Anhy  Arg  Bent  Coal  Dol  Gyp  Ls  Mrst  Sltstrg  Ssstrg  Carbsh  Clystn  Dol	 Grysh  Gryslt  Lms  Sandylms  Sh  Sltstn TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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3550

3600

3650

3700

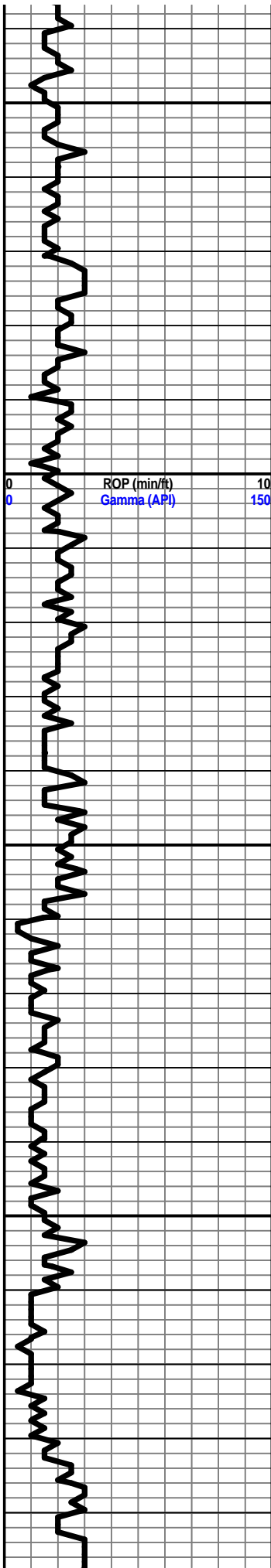
Topeka
3662(-614)

Vis 60
Wt 8.6
LCM 2#

TG

100

Mud Co Mud
Check
March 1 2014
3653' @ 9:05 am
Vis 60
Wt 8.6
pH 10.5
WL 6.6
Chl 1200 ppm
LCM 3#

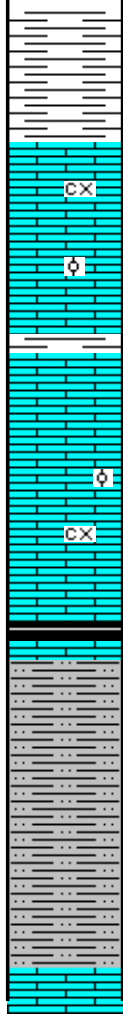


3750

3800

3850

3900



Shale, brick red, calcitic.

Limestone, cream-white, crystalline, oolitic, good oolitic porosity, chalky, no shows.

Limestone, cream-white, crystalline, partly dense, chalky.

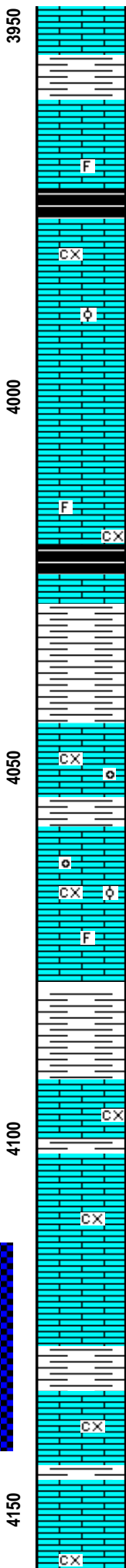
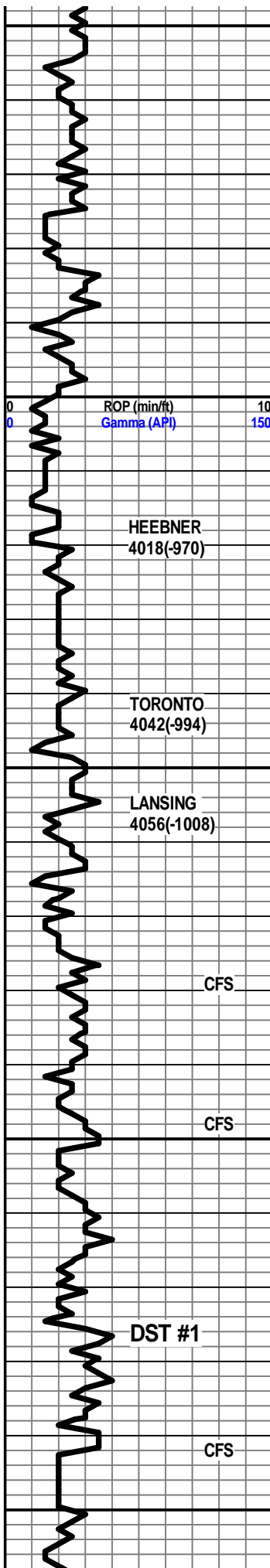
Limestone, cream-white, crystalline, chalky.

Shale, grey-black.

Shale, grey, red, soft, calcitic, trace of tan sands.

Limestone, buff-tan, crystalline, dense, slightly fossiliferous.

0 TG 100



Shale, grey, red-brown.

Limestone tan-white, crystalline, fossiliferous, partly dense.

Shale, grey-black.

Limestone, buff-tan crystalline slightly oolitic, trace chalky.

Limestone, buff, cream, crystalline, oolitic, oolimoldic porosity.

Limestone, cream-tan, crystalline, fossils.

Shale, grey-black.

Limestone, grey-white, finely crystalline dense.

Shale, reddish-brown.

Limestone, cream-buff, finely crystalline, oolitic, trace oolimoldic porosity, some fossils, no visible shows, no odor.

Limestone, tan, buff, crystalline, slightly oolitic, trace fossiliferous porosity, no visible shows.

Limestone, cream-white, white, crystalline, chalky, no visible shows, no odor.

Shale, reddish brown.

Shale as above, traces buff limestone,

Limestone, cream-white, finely crystalline, trace crystalline porosity, chalky, no visible shows, no odor.

Limestone, buff, white, crystalline, dense in part, trace pyritic, trace fossils, no visible shows.

Limestone, tan, buff, crystalline, trace crystalline porosity, light show heavy oil, faint odor.

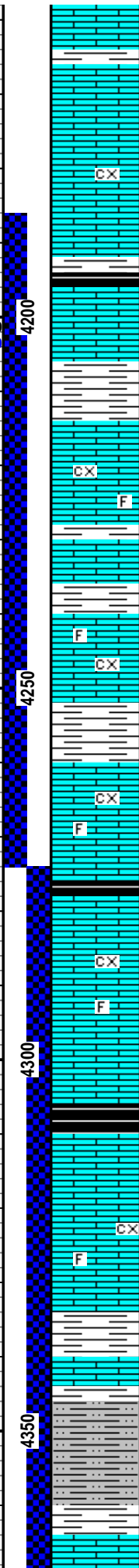
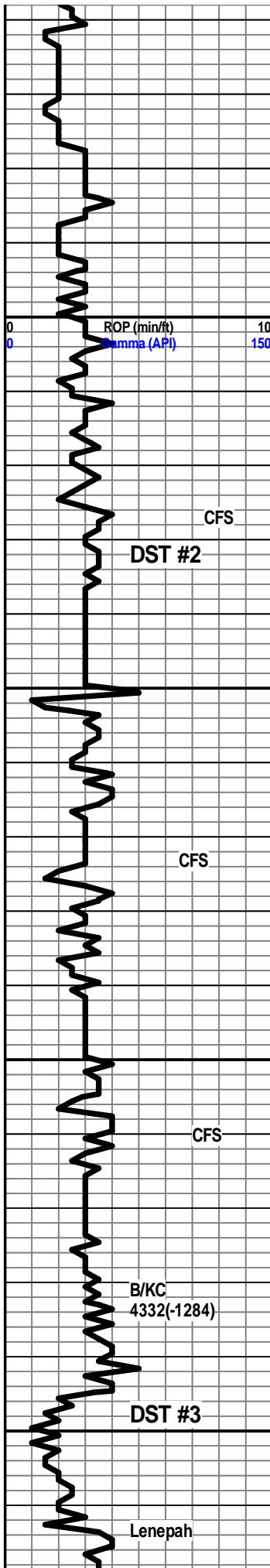
Shale, reddish brown.

Limestone, off-white, tan-white, finely crystalline, trace crystalline porosity, light show of oil, trace free oil, fair odor.

Shale, grey-red.

Limestone tan, crystalline, trace crystalline porosity, no visible shows, no odor.

0	TG	100
DST #1 4114 to 4142' Times 30-60-30-60 1st Opening - BOB in 12 minutes, no blow back 2nd Opening - BOB 10 minutes, no blow back. Recovery: 202' WCM(20% W, 80% M) 248' MCW(80% W, 20% M) 310' Water w/ few oil specks in tool(100% W) IFP 67-227# FFP 232-376# ISIP 1218# FHP 1215# IHP/FHP 2044/2012#		
Mud Co Mud Check March 2,2014 4142' @ 1:50 pm Vis 54 Wt 9.3 Ph 9.0 WL 6.8 Chl 1500 ppm LCM 2#		
DST #2 4185 to 4274'		



Shale, reddish brown, grey.

Limestone, cream-white, finely crystalline, dense, trace crystalline porosity, chalky, no odor.

Limestone, buff-white, crystalline, slightly chalky, trace crystalline porosity, very faint staining, no visible free oil.

Shale, grey-black.

Limestone, cream-white, finely crystalline, trace crystalline porosity, poor overall porosity, fair odor, very faint show of oil, slightly chalky.

Shale, reddish-brown.

Limestone tan-white crystalline, crystalline porosity, poor to fair odor, light show of oil, fossils in part, trace few vugs,

Limestone, as above, faint odor, very light show of oil.

Shale red-grey.

Limestone, cream-white, tan, crystalline, slightly fossiliferous, very faint odor, trace oil, trace crystalline porosity, trace fossiliferous porosity.

Shale, reddish-brown.

Limestone, cream-tan-white, crystalline, trace fossils, trace fossiliferous porosity, trace crystalline porosity, slight show of oil, poor to fair odor.

Shale grey-black.

Limestone, white, tan grey-white, crystalline, trace fossil fragments, trace oolites, trace crystalline, porosity, slight show of oil, fair odor.

Limestone, cream-white, crystalline, trace crystalline porosity, slightly fossiliferous, poor to fair odor.

Shale, grey-black.

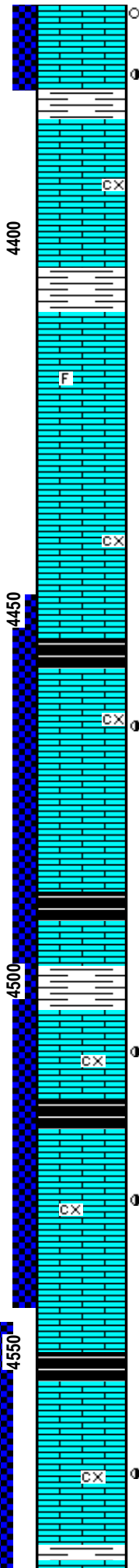
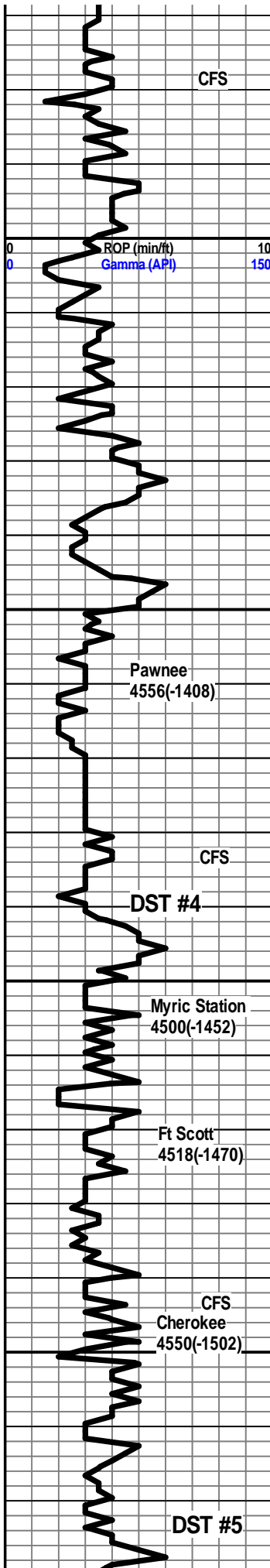
Limestone, cream, tan, some grey, crystalline, trace fossils, poor porosity, chalky, no odor, no visible shows.

Shales, grey, reddish brown, green.

Shale, grey-green, red, some clear to tan fine grained sand, no odor, no visible shows.

Limestone, tan cream, finely crystalline, trace crystalline porosity light snotty stain no

			Times 30-60-30-60
			1st Opening - 10"
			blow. no blow back.
			2nd opening - 8"
			blow no blow back.
			Recovery:
			263' Mud
			IFP 46-106#
			FFP 105-163#
			ISIP 1256#
			FSIP 1249#
			IHP/FHP
			2092/2068#
0	TG	100	
			Vis 58
			Wt 9.2
			LCM 2#
			Mud Co Mud
			Check
			March 3, 2014
			4274' @ 12:15 am
			Vis 58
			Wt 9.2
			WL 6.8
			pH 9.5
			Chl 1500 ppm
			LCM 2#
			Vis 53
			Wt 9.1
			LCM 1#
			Mud Co Mud
			Check
			March 4, 2014
			4313' @ 9:00 am
			Vis 49
			Wt 9.3
			WL 7.2
			pH 9.5
			Chl 2200 ppm
			LCM 2#
			DST #3 4273 to
			4380
			Times 30-60-15-60
			1st Opening - BOB
			in 2 minutes, no
			blow back.
			2nd Opening



crystalline porosity, light spotty stain, no visible show free oil.
Limestone a/a, slight odor, very faint show oil in few samples, light spotty stain, no fluorescence.
Shale, reddish-brown.

Limestone, cream, tan, finely crystalline, dense, trace fossils, no visible shows.

Shale, grey, reddish-brown.

Limestone, tan-white, crystalline, dense, trace fossils.

Shale, grey, red-grey, green.

Limestone tan, finely crystalline, dense.

Limestone, cream, tan, finely crystalline, fossil fragments, very slight stain, fossiliferous porosity, no odor.

Limestone, cream, tan, crystalline, dense.

Shale, grey-black.

Limestone, cream, tan finely crystalline, trace few scattered vugs, trace crystalline porosity, light show of oil, strong odor, spotty fluorescence.

Limestone, grey-tan-white, dense, trace fossils, poor porosity, trace shaley.

Shale, grey-black.

Limestone, tan, crystalline, dense.

Shale, grey, dark grey.

Limestone, cream grey-white, finely crystalline, partly dense trace few scattered small vugs, trace crystalline porosity, faint odor, slight show of oil.

Shale, grey-black.

Limestone, cream, tan, finely crystalline, partly dense, traces of crystalline porosity, very slight show of oil, faint odor.

Limestone, tan-white, crystalline, dense, trace fossils, trace tan chert, very faint odor, very poor show.

Shale, grey-black.

Limestone tan, grey-white crystalline, dense, trace fossils, no visible shows.

Limestone tan, crystalline trace few small vugs, very slight show heavy oil, spotty staining, trace free oil, very faint odor.

	2nd Opening - BOB 4 minutes, no blow back. Recovery: 253' Mud- 315' MCW (50% M, 50% W) 567' W IFP 93-449# FFP 466-582# ISIP 1178# FSIP 1131# IHP/FHP 2184/2139# Temp 125	
	Mud Co Mud Check March 5, 2014 4431' @ 8:30 am Vis 48 Wt 9.2 pH 10.5 WL 8.0 Chl 2000 LCM 2#	
	DST #4 4448 to 4544 Times 30-60-30-60 1st Opening - Built to 10" blow, no blow back. 2nd Opening - BOB 24 minutes, no blow back. Recovery: 315' GIP 55' GOCM(30% G, 30% O, 40% M) IFP 22-31# FFP 28-44# ISIP 1160# FSIP 1148# IHP/FHP 2284/2177# Temp 117	
	Mud Co Mud Check March 6, 2014 4575' @ 9:00 am Vis 49 Wt 9.3 WL 6.8 pH 10.5 Chl 2700 LCM 2#	
	DST #5 4546 to 4614 Time 30-30-5-pulled 1st Opening - 3/4", died to 1/2", no blow back. 2nd Opening - No blow, pulled tool. Recovery 15' Mud	

