

OPERATOR

Company: Murfin Drilling Company
 Address: 250 N. Water
 Suite 300
 Wichita, KS 67020
 Contact Geologist: Shauna Gunzelman
 Contact Phone Nbr: 316-267-3241
 Well Name: Erickson 'A' #1-36
 Location: Sec. 36 - T4S - R31W
 API: 15-153-21054-0000
 Pool: _____ Field: Wildcat
 State: Kansas Country: USA



Scale 1:240 Imperial

Well Name: Erickson 'A' #1-36
 Surface Location: Sec. 36 - T4S - R31W
 Bottom Location: _____
 API: 15-153-21054-0000
 License Number: 30606
 Spud Date: 9/19/2014 Time: 11:15 AM
 Region: Rawlins County
 Drilling Completed: 9/26/2014 Time: 5:50 PM
 Surface Coordinates: 1950' FSL & 1950' FWL
 Bottom Hole Coordinates: _____
 Ground Elevation: 2840.00ft
 K.B. Elevation: 2845.00ft
 Logged Interval: 3580.00ft To: 4470.00ft
 Total Depth: 4470.00ft
 Formation: Mississippian
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: _____
 Latitude: _____
 N/S Co-ord: 1950' FSL
 E/W Co-ord: 1950' FWL

LOGGED BY

Keith Reavis
Consulting Geologist

Company: Keith Reavis, Inc.
 Address: 3420 22nd Street
 Great Bend, KS 67530
 Phone Nbr: 620-617-4091
 Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Contractor: Murfin Drilling Company
 Rig #: 7
 Rig Type: mud rotary
 Spud Date: 9/19/2014 Time: 11:15 AM
 TD Date: 9/26/2014 Time: 5:50 PM
 Rig Release: _____ Time: _____

ELEVATIONS

K.B. Elevation: 2845.00ft Ground Elevation: 2840.00ft
 K.B. to Ground: 5.00ft

NOTES

Due to negative drill stem tests results and electrical log evaluation, it was determined that the Erickson 'A' #1-36 was non-commercial and was therefore plugged as a dry test.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,
 Keith Reavis

Murfin Drilling Company
daily drilling report

DATE	7:00 AM DEPTH	REMARKS
09/21/2014		geologist Keith Reavis on duty @ 3545 ft 1900 hrs 9/21/14, complete bit trip, resume drilling
09/22/2014	3798	drilling ahead, Topeka, Heebner, Toronto, Lansing, shows in Toronto and Lansing A & B warrant test, short trip, TOH, conducting DST #1
09/23/2014	3900	complete DST #1, successful test, TIH w/bit, show in F & G warrant test, TOH for DST #2, conducting DST #2
09/24/2014	3992	complete DST #2, successful test, TIH w/bit, resume drilling, show in H and J warrant test, conduct and complete DST #3, TIH w/bit
09/25/2014	4139	resume drilling, Stark, BKC, Pawnee, Cherokee, run condemnation test on Pawnee and Cherokee, mis-run, packer failure, TOH
09/26/2014	4304	reset packer seat, TIH w/tools, conducting DST #5, complete DST #5, successful test, TIH w/PDC bit, rathole ahead to TD, TD @ 4500', 1750 hrs, TOH for logs, conducting logging operations
09/27/2014	4470	complete logging operations, geologist off location 0245 hrs


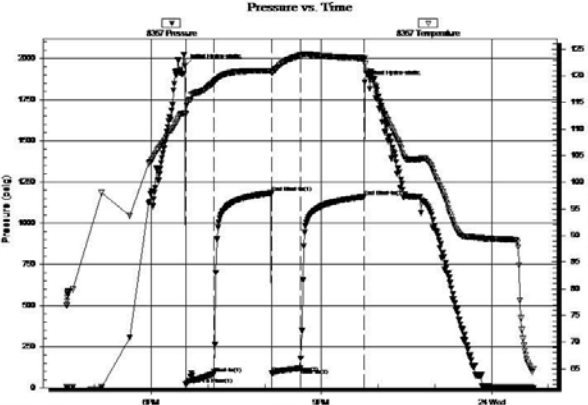
Murfin Drilling Company
well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
MDC - Erickson #1-36					MDC - MB 'A' #1-35				MDC - Zola #1-1			
1950' FSL & 1950' FWL					1560' FNL' & 1560' FWL				1400' FNL & 1200' FEL			
Sec 36-T4S-R31W					Sec 35-T4S-R31W				Sec 1-T5S-R31W			
2845 KB					2906 KB				2871 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topeka	3651	-806	3653	-808	3719	-813	7	5	3688	-817	11	9
Heebner	3817	-972	3823	-978	3884	-978	6	0	3858	-987	15	9
Lansing	3865	-1020	3870	-1025	3933	-1027	7	2	3906	-1035	15	10
Lansing G	3947	-1102	3949	-1104	4012	-1106	4	2	3985	-1114	12	10
Stark	4026	-1181	4036	-1191	4098	-1192	11	1	4070	-1199	18	8
BKC	4076	-1231	4092	-1247	4153	-1247	16	0	4122	-1251	20	4
Pawnee	4190	-1345	4200	-1355	4259	-1353	8	-2	4233	-1362	17	7
Cherokee	4272	-1427	4282	-1437	4344	-1438	11	1	4317	-1446	19	9
Mississippian	4390	-1545	4404	-1559	4460	-1554	9	-5	4430	-1559	14	0
Total Depth	4470	-1625	4472	-1627	4546	-1640	15	13	4492	-1621	-4	-6


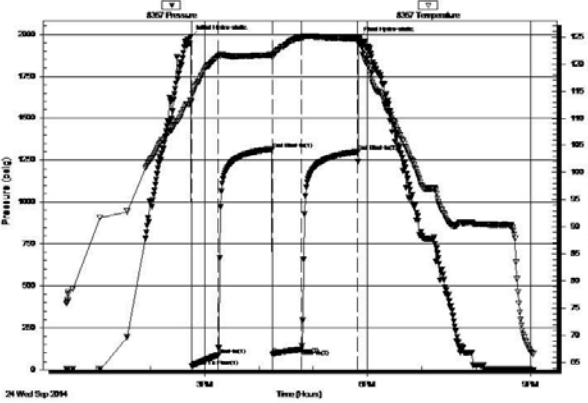
Drill Stem Test #1

TRILOBITE TESTING, INC.		DRILL STEM TEST REPORT	
		Murfin drilling company INC	36-4s-31w Rawling
250 N Water STE 300 Wichita Ks 67202		Erickson A #1-36	Job Ticket: 57467 DST#: 1
ATTN: Keith Reavis		Test Start: 2014.09.22 @ 16:34:00	
GENERAL INFORMATION:			
Formation: Toranto- Lansing	Deviated: No Whipstock: 0.00 ft (KB)	Test Type: Conventional Bottom Hole (Initial)	Tester: Justin Harris
Time Tool Opened: 20:56:30	Time Test Ended: 04:28:19	Unit No: 61	Reference Elevations: 2845.00 ft (KB)
Interval: 3810.00 ft (KB) To 3900.00 ft (KB) (TVD)	Total Depth: 3900.00 ft (KB) (TVD)	Hole Diameter: 7.88 inches-Hole Condition: Poor	KB to GR/CF: 4.00 ft
Serial #: 8357 Inside	Press@RunDepth: 453.92 psig @ 3811.00 ft (KB)	Capacity: 8000.00 psig	Last Callb.: 2014.09.23
Start Date: 2014.09.22	End Date: 2014.09.23	Time On Btm: 04:28:19	Time Off Btm: 2014.09.22 @ 20:56:10
Start Time: 16:34:02	End Time: 04:28:19	Time On Btm: 2014.09.22 @ 20:56:10	Time Off Btm: 2014.09.23 @ 00:58:10
TEST COMMENT: 30: B.O.B in 8 mins. 60: No Return. 60: B.O.B in 12 min. 90: No Return.			
		PRESSURE SUMMARY	
		Time (Min.)	Pressure (psig) Temp (deg F) Annotation
		0	1924.63 114.86 Initial Hydro-static
		1	64.59 114.58 Open To Flow (1)
		31	239.87 118.64 Shut-In(1)
		91	1269.01 123.73 End Shut-In(1)
		91	236.38 122.50 Open To Flow (2)
		151	453.92 126.54 Shut-In(2)
		242	1258.01 125.75 End Shut-In(2)
		242	1769.08 125.22 Final Hydro-static
Recovery		Gas Rates	
Length (ft)	Description	Volume (bbl)	Choke (inches) Pressure (psig) Gas Rate (Mcfd)
187.00	MCW 40% M 60% WV	0.92	
703.00	MCW 20% M 80% WV	9.86	


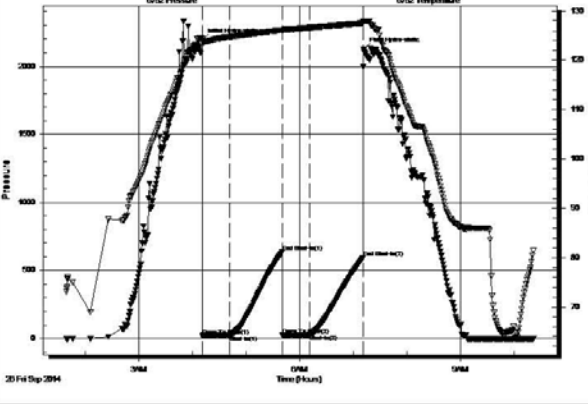
Drill Stem Test #2

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																																				
	Murfin Drilling Co., Inc. 250 N Water STE 300 Wichita Ks 67202 ATTN: Keith Reavis	S36-4s-31w Rawling, KS Erickson A #1-36 Job Ticket: 57390 DST#: 2 Test Start: 2014.09.23 @ 16:30:00																																																			
GENERAL INFORMATION: Formation: Lansing 'D-G' Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 18:36:10 Time Test Ended: 00:44:20 Interval: 3909.00 ft (KB) To 3954.00 ft (KB) (TVD) Total Depth: 3954.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good Test Type: Conventional Bottom Hole (Reset) Tester: Chuck Smith Unit No: 61 Reference Elevations: 2845.00 ft (KB) 2841.00 ft (CF) KB to GR/CF: 4.00 ft																																																					
Serial #: 8357 Inside Press@RunDepth: 118.57 psig @ 3910.00 ft (KB) Start Date: 2014.09.23 End Date: 2014.09.24 Start Time: 16:30:02 End Time: 00:44:20 Capacity: 8000.00 psig Last Calib.: 2014.09.24 Time On Btm: 2014.09.23 @ 18:35:10 Time Off Btm: 2014.09.23 @ 21:46:00																																																					
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Drill Stem Test #3

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																																							
	Murfin Drilling Co., Inc. 250 N Water STE 300 Wichita Ks 67202 ATTN: Keith Reavis	S36-4s-31w Rawling, KS Erickson A #1-36 Job Ticket: 57391 DST#: 3 Test Start: 2014.09.24 @ 12:27:00																																																						
GENERAL INFORMATION: Formation: Lansing 'H-J' Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 14:45:20 Time Test Ended: 21:03:30 Interval: 3985.00 ft (KB) To 4027.00 ft (KB) (TVD) Total Depth: 4027.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good Test Type: Conventional Bottom Hole (Reset) Tester: Chuck Smith Unit No: 61 Reference Elevations: 2845.00 ft (KB) 2841.00 ft (CF) KB to GR/CF: 4.00 ft																																																								
Serial #: 8357 Inside Press@RunDepth: 122.42 psig @ 3986.00 ft (KB) Start Date: 2014.09.24 End Date: 2014.09.24 Start Time: 12:27:02 End Time: 21:03:30 Capacity: 8000.00 psig Last Calib.: 2014.09.24 Time On Btm: 2014.09.24 @ 14:44:10 Time Off Btm: 2014.09.24 @ 17:50:00																																																								
TEST COMMENT: 30- 7" Blow. 60- No return. 30- 7" Blow 60 Weak return died @ 10 min.																																																								
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Trilobite Testing, Inc. Ref. No: 57391 Printed: 2014.09.25 @ 08:01:07																																																								

Drill Stem Test #5

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																											
	Murfin Drilling Co., Inc. 250 N Water STE 300 Wichita Ks 67202 ATTN: Keith Reavis	S36-4s-31w Rawling, KS Erickson A #1-36 Job Ticket: 60021 DST#: 5 Test Start: 2014.09.26 @ 01:39:00																																										
GENERAL INFORMATION: Formation: Pawne/Cherokee Deviated: No Whipstock: 0.00 ft (KB) Time Tool Opened: 04:11:15 Time Test Ended: 10:21:30 Interval: 4208.00 ft (KB) To 4304.00 ft (KB) (TVD) Total Depth: 4304.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Good Test Type: Conventional Bottom Hole (Reset) Tester: Ryan Nichols Unit No: 61 Reference Elevations: 2845.00 ft (KB) 2841.00 ft (CF) KB to GR/CF: 4.00 ft																																												
Serial #: 6752 Inside Press@RunDepth: 27.30 psig @ 4209.00 ft (KB) Start Date: 2014.09.26 End Date: 2014.09.26 Start Time: 01:39:05 End Time: 10:21:30 Capacity: 8000.00 psig Last Calib.: 2014.09.26 Time On Btm: 2014.09.26 @ 04:11:00 Time Off Btm: 2014.09.26 @ 07:11:30																																												
TEST COMMENT: 30 IF - Surface blow built to 1/4" 60 ISI - No return 30 FF - No blow 60 FSI - No return																																												
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">Recovery</th> <th colspan="3">Gas Rates</th> </tr> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			Recovery			Gas Rates			Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																														
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Trilobite Testing, Inc. Ref. No: 60021 Printed: 2014.09.26 @ 10:30:59																																												

ROCK TYPES

	Cht		Dolsec		Lmst fw>		Carbon Sh		Sltst
	Chtcong		sdylmst		shale, gm		shale, red		Ss
	Dolprim		Lmst fw<7		shale, gry				

ACCESSORIES

MINERAL
 G Glauconite
 P Pyrite
 S Silty
 CW Chert White

FOSSIL
 B Bioclastic or Fragmental
 F Fossils < 20%
 O Oolite

STRINGER
 S Siltstone

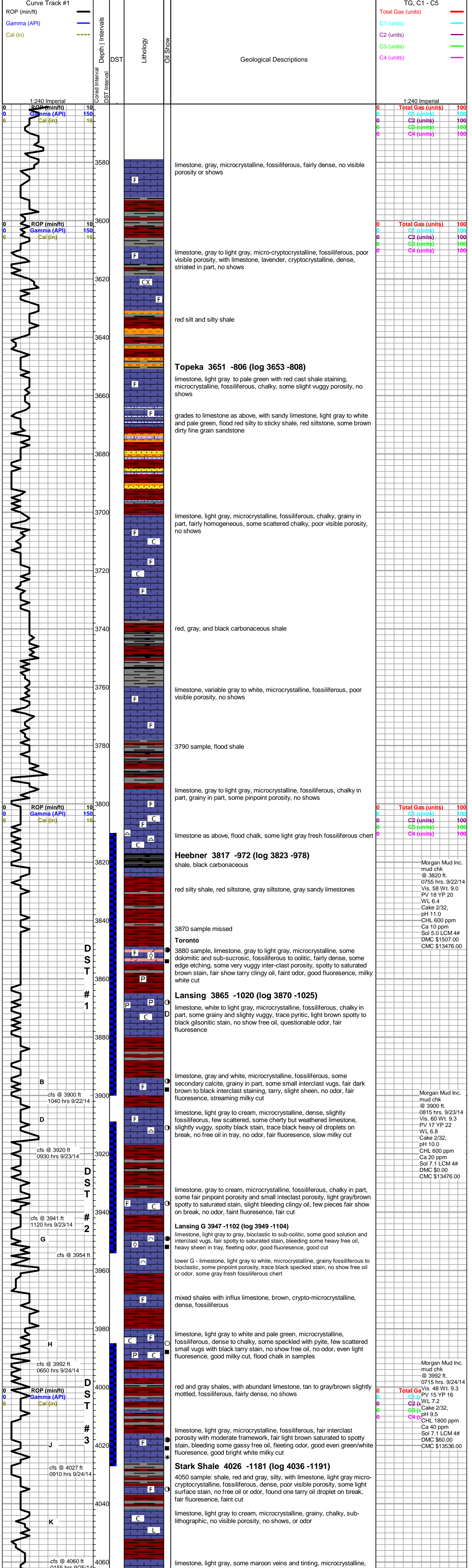
TEXTURE
 C Chalky
 CX Cryptocrystalline
 L Lithogr

OTHER SYMBOLS

Oil Show
 G Good Show
 F Fair Show
 P Poor Show
 S Spotted or Trace
 Q Questionable Strn
 D Dead Oil Strn
 F Fluorescence
 * Gas

DST
 DST Int
 DST alt
 Core
 tail pipe

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visible porosity, no shows or odor

Base KC 4076 -1231 (4092 -1247)

limestone, gray to light gray, slightly fossiliferous to lithographic, some arenaceous, some lavender tinted, dense, no shows

limestone, white, bioclastic, chalky, some pinpoint porosity, barren, abundant chalk with samples

limestone, gray to light gray, slightly fossiliferous to lithographic, some arenaceous, some lavender tinted, dense, no shows, with limestone, cream, cryptocrystalline, fossiliferous, large clasts, dense, no shows, some scattered siltstones

4130 sample flood shales, gray, red, brick red and maroon shales, some silty, trace maroon and gray siltstones

shales as above, with influx limestone, white with yellow tint and mottling, bioclastic, chalky in part, poor visible porosity, no shows

shales as above

Morgan Mud Inc.
mud chk
@ 4149 ft.
0730 hrs. 9/25/14
Vis. 50 Wt. 9.3
PV 16 YP 17
WL 6.8
Cake 2/32,
pH 11.5
CHL 1500 ppm
Ca 10 ppm
Sol 7.1 LCM 4#
DMC \$1928.00
CMC \$15464.00

Pawnee 4190 -1345 (log 4200 -1355)

4210 limestone, cream to white and light gray, microcrystalline, fossiliferous, some lithographic, mostly dense, abundant chalk, no shows

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

limestone, light gray to cream, microcrystalline, flattened oolitic to bioclastic, chalky, poor visible porosity, no shows, abundant chalk in samples, poor fluorescence

4270 sample - flood black carbonaceous shale, almost entire sample, minor gray shales

limestone, light gray, micro-cryptocrystalline, fossiliferous to sub-lithographic, dense, no shows, abundant chalk

Cherokee 4272 -1427 (log 4282 -1437)

limestone, light gray to white, chalky bioclastic to fossiliferous, some very chalky, some pinpoint interclast and fracture porosity, some dense, no visible show, no odor, good fluorescence, no cut

grades to limestone, variable gray, some maroon hues, lithographic to fossiliferous, some gray dirty sandy limestone, dense, glauconitic in part, some small black spec inclusions, no shows

BACK IN HOLE AFTER DST WITH PDC BIT FOR RATHOLE TO TD

mixed shales, gray, red, maroon, some green

sandstone, dirty quartz, medium to very fin grain, fair to poor sorting, angular to rounded, glauconitic in part, calcareous, some limestone and shale inclusions, poor visible porosity, no shows

mixed shales as above, abundant pyrite

4410 sample, picking up abundant yellow shale, silty, weathered, with yellow weathered chert, some white fossiliferous chert

Mississippian 4390 -1545 (log 4404 -1559)

4430 sample - carrying mostly shales as above, but influx white fossiliferous chert, tripolitic to sub-tripolitic, with sharp/fresh fossiliferous, no shows

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

abundant shales as above, with chert, mixed white to gray and yellow, fossiliferous, sharp and fresh to leached tripolitic, scattered gray dense fossiliferous limestone, some dolomitic, no shows, scattered fair fluorescence

as above

in 60 min cfs sample @ TD, dolomite, microcrystalline, recrystallized sub-rhombic, dense, no shows, fair fluorescence

Rotary TD @ 4470' 1750 hrs 9/26/14
Pioneer Log TD 4472'
Complete Logging Operations @ 0230 hrs 9/27/14

cfs @ 4080 ft
0335 hrs 9/25/14

cfs @ 4240 ft
1135 hrs 9/25/14

cfs @ 4304 ft
1400 hrs 9/15/14

cfs @ 4400 ft
1750 hrs 9/26/14

ROP (min/ft)

Gamma (API)

Cal (in)

D M D

S I S

T R T

U

4 N 5

ROP (min/ft)

Gamma (API)

Cal (in)

ROP (min/ft)

Gamma (API)

Cal (in)

ROP (min/ft)

Gamma (API)

Cal (in)

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Cal (in)