**OPERATOR** 

Company: Gulf Exploration, LLC

Address: 9701 N. Broadway Extension

Oklahoma City, OK 73114

Contact Geologist: Frank Thompson
Contact Phone Nbr: 405-840-3371
Well Name: Skolout Trust #1-15
Location: Sec. 7 - T7S - R35W

API: 15-193-20986-0000

Pool: Field: Wildcat

State: Kansas Country: USA

Scale 1:240 Imperial

Well Name: Skolout Trust #1-15 Surface Location: Sec. 7 - T7S - R35W

Bottom Location:

API: 15-193-20986-0000

License Number: 35147

Spud Date: 2/9/2017 Time: 8:30 PM

Region: Thomas County

Drilling Completed: 2/17/2017 Time: 9:10 PM

Surface Coordinates: 2436' FSL & 330' FWL

**Bottom Hole Coordinates:** 

Ground Elevation: 3304.00ft
K.B. Elevation: 3309.00ft
Logged Interval: 3600.00ft

Logged Interval: 3600.00ft To: 5406.00ft

Total Depth: 5406.00ft
Formation: Pre-Cambrian

Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude:

Latitude:

N/S Co-ord: 2436' FSL E/W Co-ord: 330' 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: 2/9/2017 Time: 8:30 PM TD Date: 2/17/2017 Time: 9:10 PM

Rig Release: Time:

**ELEVATIONS** 

K.B. Elevation: 3309.00ft Ground Elevation: 3304.00ft

K.B. to Ground: 5.00ft

#### **NOTES**

Due to negative results of drill stem testing and electrical log evaluation, it was determined by the operator that the Skolout Trust #1-15 be plugged and abandoned as a dry test.

Samples were saved and will be available for review at the Kansas Geological Survey Well Sample library located in

# Gulf Exploration, LLC daily drilling report

DATE	7:00 AM DEPTH	REMARKS
02/11/2017	3635	Geologist Keith Reavis on location @ 0600 hrs, 3572 ft, drilling ahead cfs @ 3947', show (Bern or Howard) warrants test, short trip, ctch, TOH for DST #1
02/12/2017	3970	complete DST #1, successful test, TIH w/bit (replace PDC with button), resume drilling, Topeka, Oread, Heebner, Toronto, Lansing, show in E zone warrants test, short trip and TOH for DST #2
02/13/2017	4275	trip out, conduct and complete DST #2, successful test, show in H zone, no shows I & J zones, set up straddle test for H zone, TOH w/bit in w/tools
02/14/2017	4381	conducting DST #3, complete DST #3, successful test, TIH w/bit, resume drilling, Stark, BKC, Marmaton, show in Pawnee warrants test, pulled tight coming out of hole, short trip, TOH w/bit
02/15/2017	4565	TOH w/bit, TIH w/tools, conduct and complete DST #4, successful test, back in hole w/bit, resume drilling, Ft. Scott, Cherokee
02/16/2017	4861	drilling ahead, Cherokee, Mississippian, Arbuckle
02/17/2017	5246	drilling ahead, Arbuckle, Pre-Cambrian, TD @ 5406' @ 2110 hrs, short trip
02/18/2017	5406	ctch, TOH for logs, logging tools quit working going in hole, re-heading and waiting on another truck en-route, new truck on loc, conduct and complete logging. Decision made to straddle upper Pawnee and isolate top porosity zone, make up tools, TIH, conduct DST #5 straddle, TOH
02/19/2017	5406	finish TOH w/tools, successful test, decision to plug, geologist off Location @ 0300 hrs

# **Gulf Exploration, LLC**

# well comparison sheet

	DRILLING WELL Skolout Trust #1-15 2436' FSL & 330' FWL Sec 15-T7S-R35W				COMPARISON WELL Gulf - Miller #1-20 C SE NE Sec 20-T7S-R35W				COMPARISON WELL  Dark Horse Bellamy #1-21  2290' FSL & 2285' FWL  Sec 21-T7S-R35W			
					Structural			Structur			ural	
	3309 KB			3320 KB		Relationship		3309 KB		Relationship		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Howard	3898	-589	3900	-591	3901	-581	-8	-10	3920	-611	22	20
Topeka	3956	-647	3959	-650	3963	-643	-4	-7	3977	-668	21	18
Oread	4118	-809	4098	-789	4126	-806	-3	17	4136	-816	7	27
Heebner	4136	-827	4136	-827	4144	-824	-3	-3	4160	-840	13	13
Lansing	4184	-875	4180	-871	4188	-868	-7	-3	4207	-887	12	16
Muncie Creek	4298	-989	4300	-991	4312	-992	3	1	4328	-1008	19	17
Stark Shale	4381	-1072	4378	-1069	4394	-1074	2	5	4411	-1091	19	22
Base KC	4460	-1151	4459	-1150	4474	-1154	3	4	4493	-1173	22	23
Marmaton	4477	-1168	4474	-1165	4486	-1166	-2	1	4508	-1188	20	23
Pawnee	4545	-1236	4553	-1244	4576	-1256	20	12	4600	-1280	44	36
Cherokee	4613	-1304	4616	-1307	4634	-1314	10	7	4654	-1334	30	27
Mississippian	4760	-1451	4764	-1455	4814	-1494	43	39	4862	-1542	91	87
Arbuckle	5066	-1757	5068	-1759	5100	-1780	23	21	nr		30	
Reagan (equiv)	5320	-2011	5323	-2014	5345	-2025	14	11	nr			
Pre-Cambrian	5343	-2034	5346	-2037	5369	-2049	15	12	nr		6 HI	
Total Depth	5406	-2097	5410	-2101	5443	-2123	26	22	4911	-1591	-506	-510







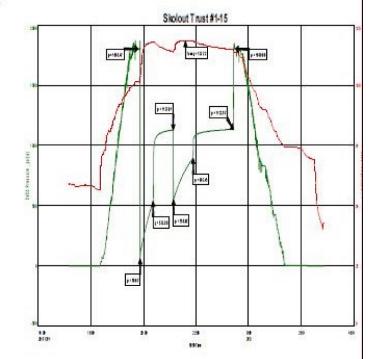
### Hoisington, Kansas

#### General Information

Company Name Gulf Exploration LLC

Contact Pat McGraw
Well Name Skolout Trust #1-15
Unique Well ID Dst #1 Howard 3866-3947'
Surface Location Sec 15-7s-35w Thomas County
Field Wildcat
Well Type Vertical
Test Type Drill Stem Test
Well Operator Gulf Exploration LLC

Dst #1 Howard 3866-3947' Formation 06 Water Well Fluid Type **Test Purpose** Initial Test Start Test Date 2017/02/11 Start Test Time 17:10:00 **Final Test Time** 02:53:00 Job Number P0160 2017/02/11 Report Date Prepared By Michael Carroll



#### TEST RECOVERY

Remarks Recovery: 184' OCMW 4%O 66%W 30%M

1699' SLOCMCW 1%O 96%W 3%M

Total Fluid: 1883\*

Sampler Recovery: 4000ML Water

PSI: 50

Chlorides 58000 PPM RW .18 @ 55 Degrees PH 7

**Drill Stem Test #2** 



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

# Hoisington, Kansas

#### General Information

Company Name Gulf Exploration LLC

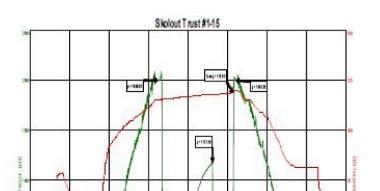
 Contact
 Pat McGraw

 Well Name
 Skolout Trust #1-15

 Unique Well ID
 Dst #2 Lans E&F 4243-4275'

 Surface Location
 Sec 15-7s-35w Thomas County

 Field
 Wildcat



Test Type Well Operator

Gulf Exploration LLC
Dst #2 Lans E&F 4243-4275

Formation
Well Fluid Type
Test Purpose
Start Test Date
Start Test Time
Final Test Time
Job Number
Report Date

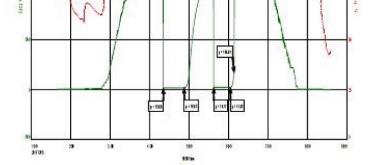
Prepared By

S E&F 4243-4275' 01 Oil Initial Test 2017/02/13 01:40:00 08:35:00 P0161 2017/02/13

Michael Carroll

**Drill Stem Test** 

verucar



#### TEST RECOVERY

Remarks Recovery: 15' OSWCM 30%W 70%M >1% OII

Total Fluid: 15'

Sampler Recovery: 4000 ML Mud With Oil Specks

PSI: 20

Chlorides 55000 PPM Rw .15 @ 55 Degrees

PH 8

#### **Drill Stem Test #3**



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

# Hoisington, Kansas

#### **General Information**

Company Name Gulf Exploration LLC

 Contact
 Pat McGraw

 Well Name
 Slotout Trust #1-15

 Unique Well ID
 Dst #3 Lans 'H' 4303-4328' Rtd 4381

 Surface Location
 Sec 15-7s-35w Thomas County

 Field
 Wildcat

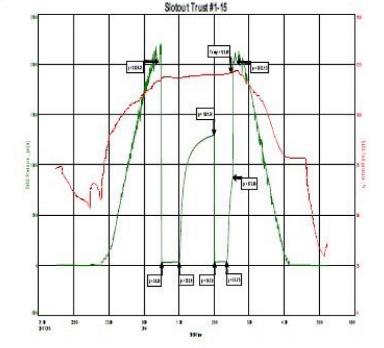
 Well Type
 Vertical

 Test Type
 Drill Stem Test

 Well Operator
 Gulf Exploration LLC

Formation Dst #3 Lans 'H' 4303-4328' Rtd 4381

Well Fluid Type 01 Oil **Test Purpose** Initial Test Start Test Date 2017/02/13 Start Test Time 21:30:00 **Final Test Time** 05:15:00 Job Number P0162 2017/02/13 Report Date Prepared By Michael Carroll



#### TEST RECOVERY

Remarks Recovery: 40' Mud 100%M

Total Fluid: 40°

Sampler Recovery: 4000 ML Mud

PSI: 100



Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

# Hoisington, Kansas

#### **General Information**

Company Name Gulf Exploration LLC

 Contact
 Pat McGraw

 Well Name
 Skolout Trust #1-15

 Unique Well ID
 Dst #4 Pawnee 4527-4565'

 Surface Location
 Sec 15-7s-35w Thomas County

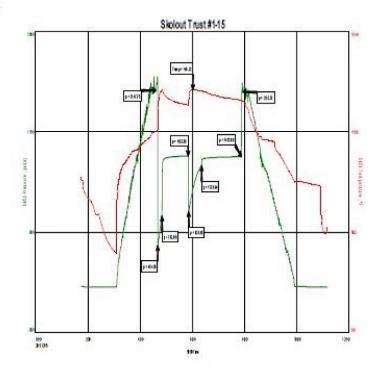
 Field
 Wildcat

 Well Type
 Vertical

 Test Type
 Drill Stem Test

 Well Operator
 Gulf Exploration LLC

Dst #4 Pawnee 4527-4565' Formation Well Fluid Type 06 Water **Test Purpose** Initial Test Start Test Date 2017/02/15 Start Test Time 01:45:00 **Final Test Time** 11:10:00 Job Number P0163 Report Date 2017/02/15 Prepared By Michael Carroll



#### TEST RECOVERY

Remarks Recovery: 365' MW 51%W 49%M

252' SLOCMW 2%O 68%W 30%M 1008' OCMCW 5%O 88%W 7%M 1134' SLOCSLMCW 2%O 96%W 2%M

Total Fluid: 2759'

Sampler Recovery: 4000ML Water

PSI: 180

Chlorides 60000 PPM RW .1 @ 79 Degrees

PH 7

#### **Drill Stem Test #5**

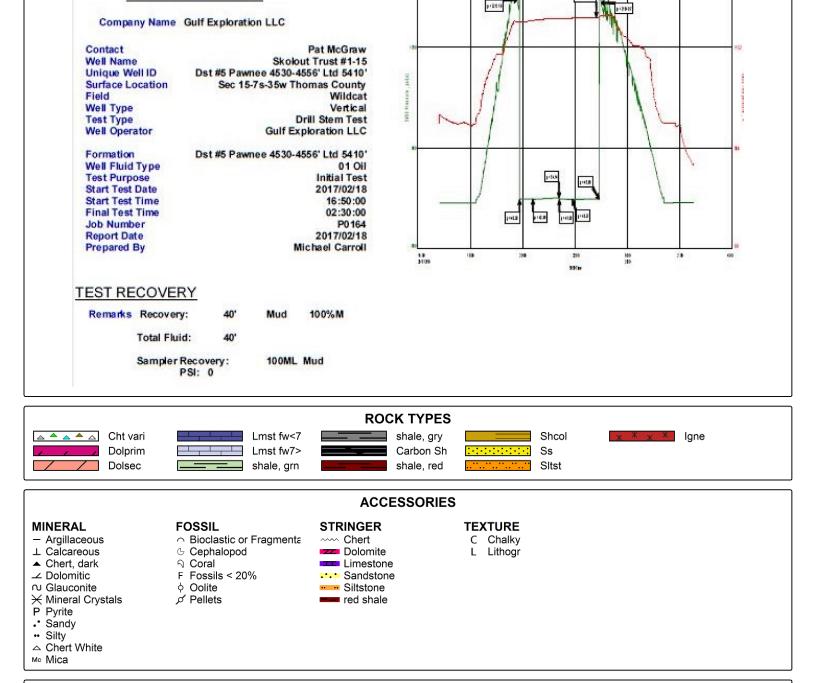


Michael Carroll 620-617-0368 carroll.dtllc@gmail.com

## Hoisington, Kansas

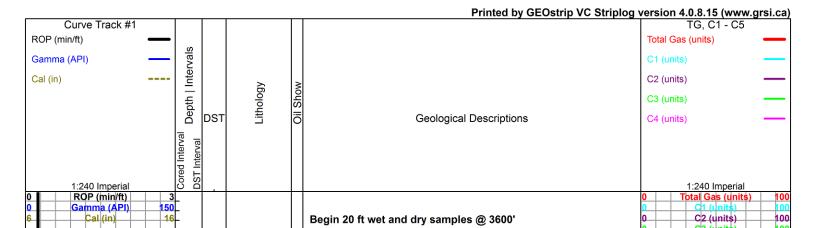
Skolout Trust #1-15

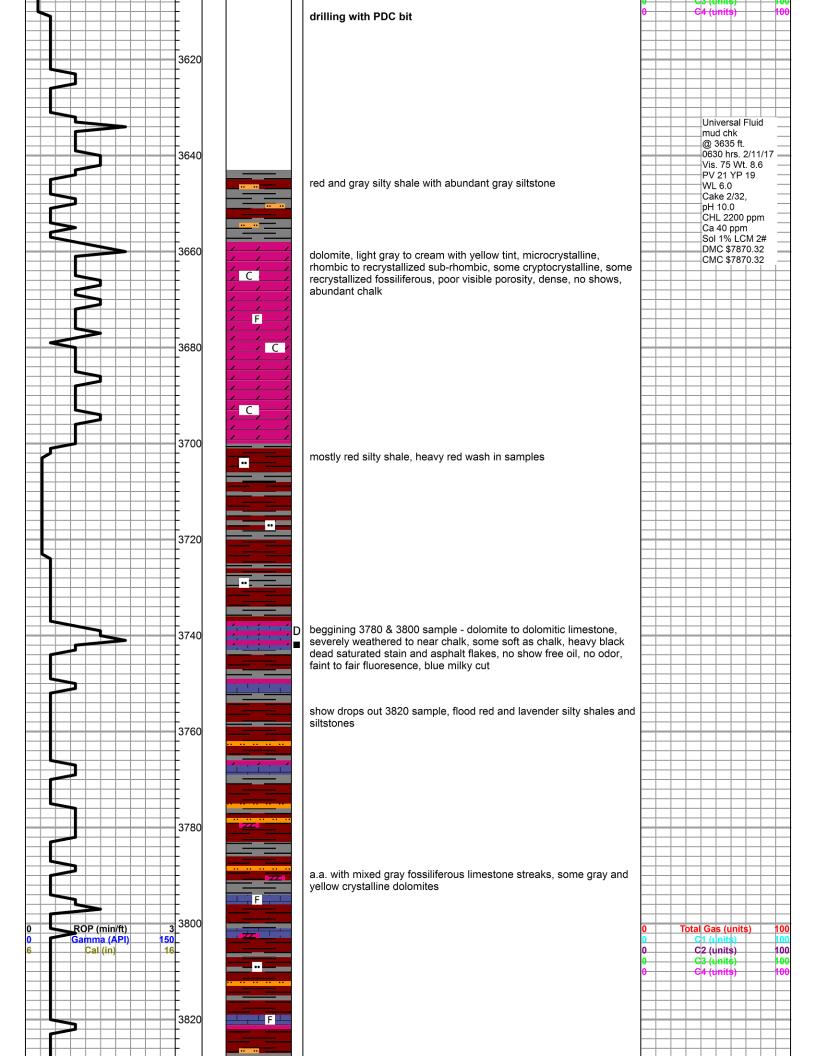
**General Information** 

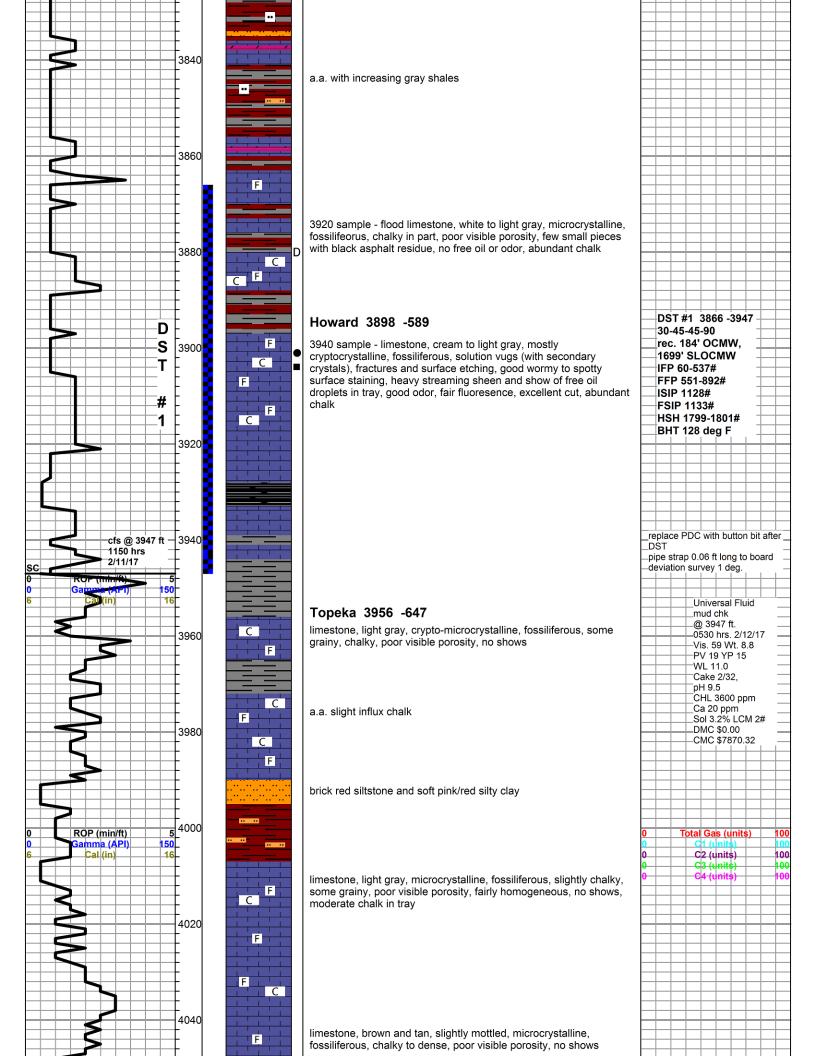


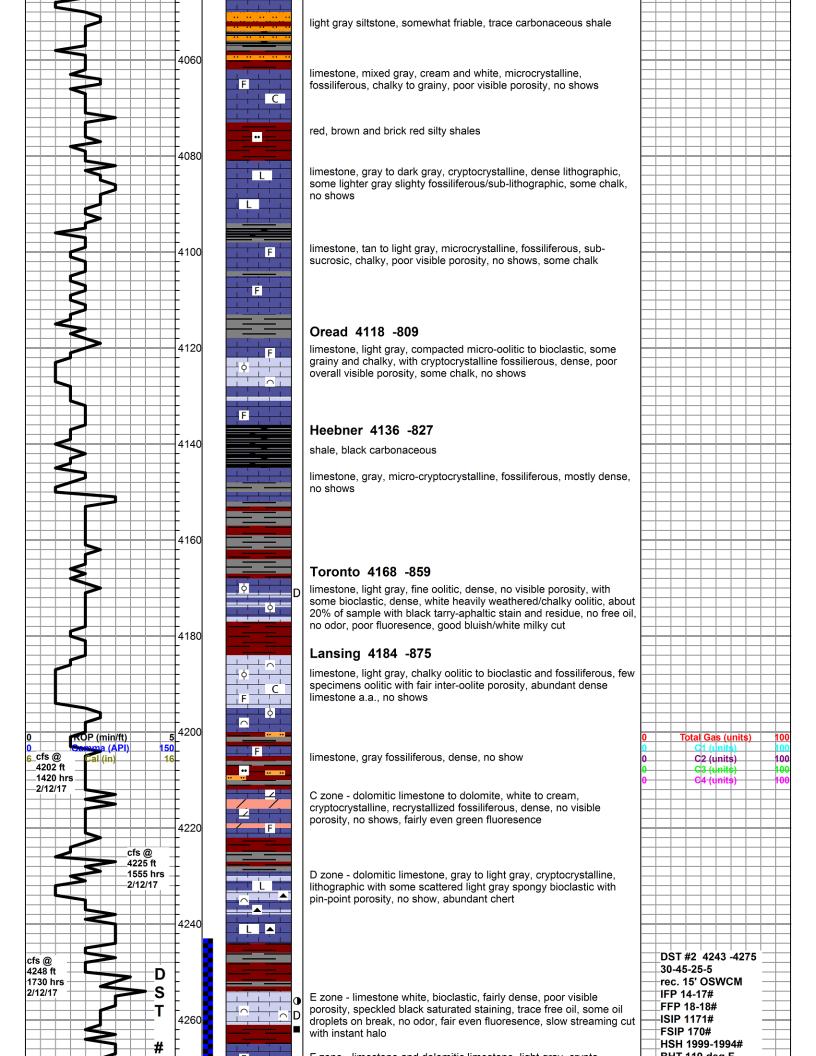
# OTHER SYMBOLS Oil Show Ogod Show Fair Show Poor Show Spotted or Trace Questionable Stn D Dead Oil Stn Fluorescence

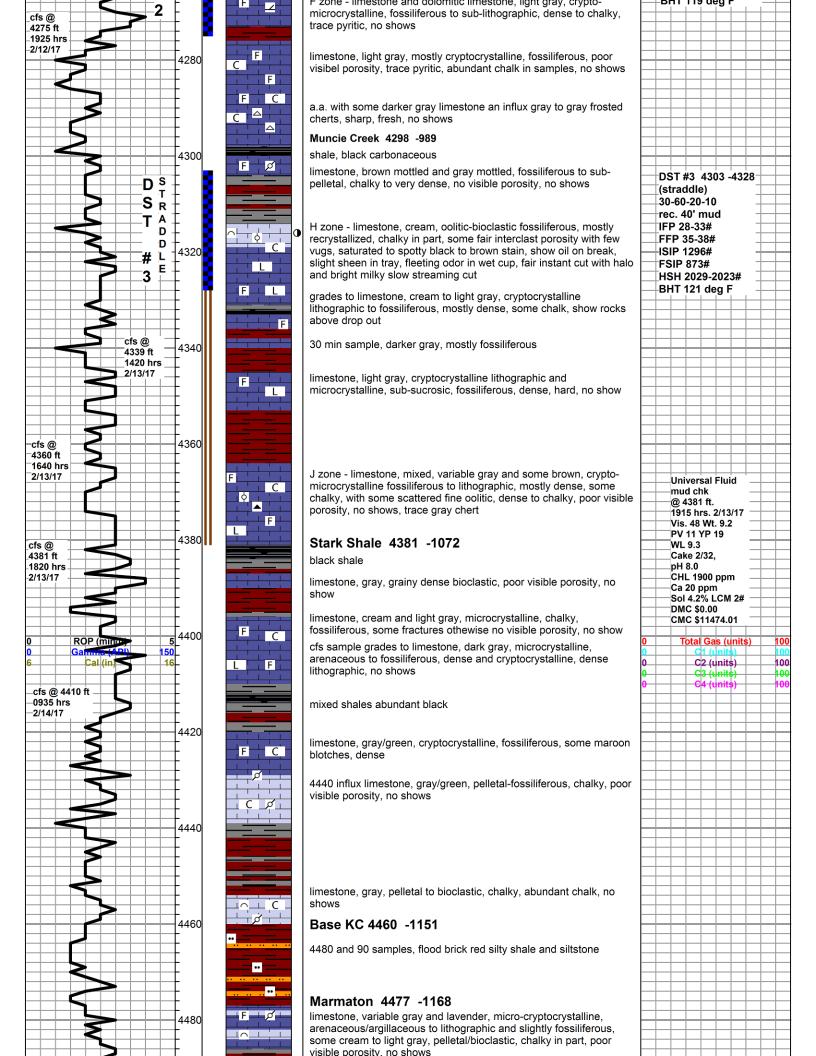
\* Gas





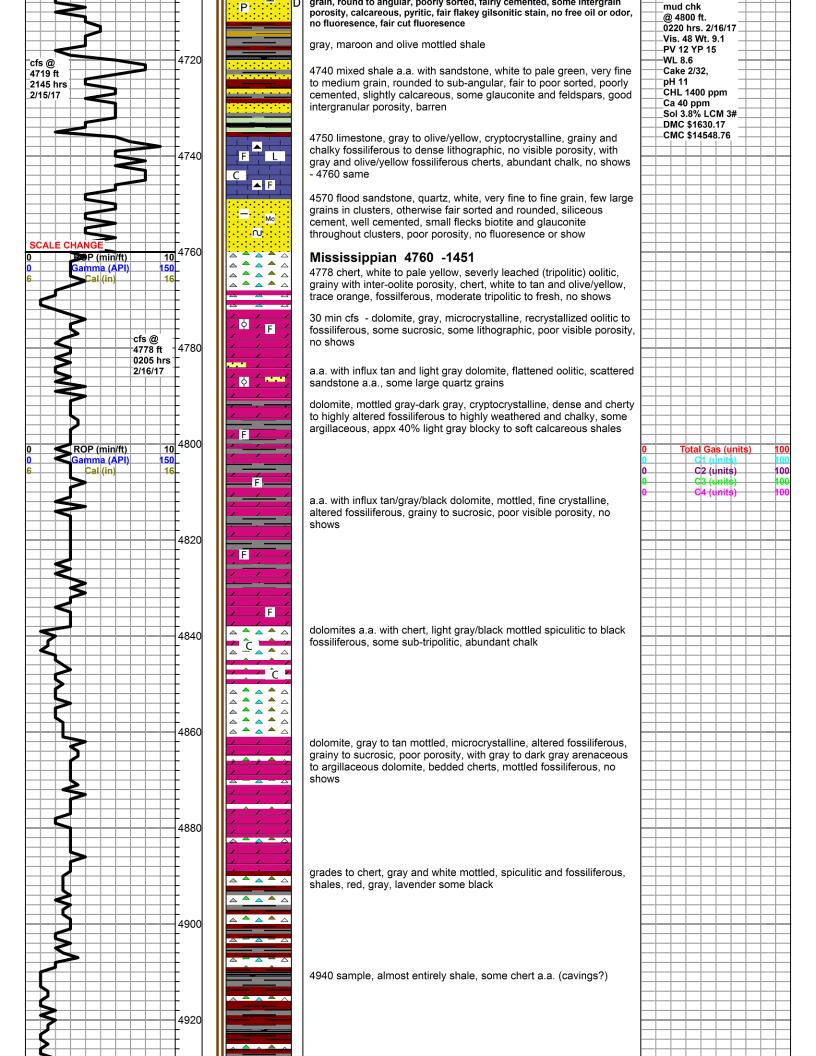


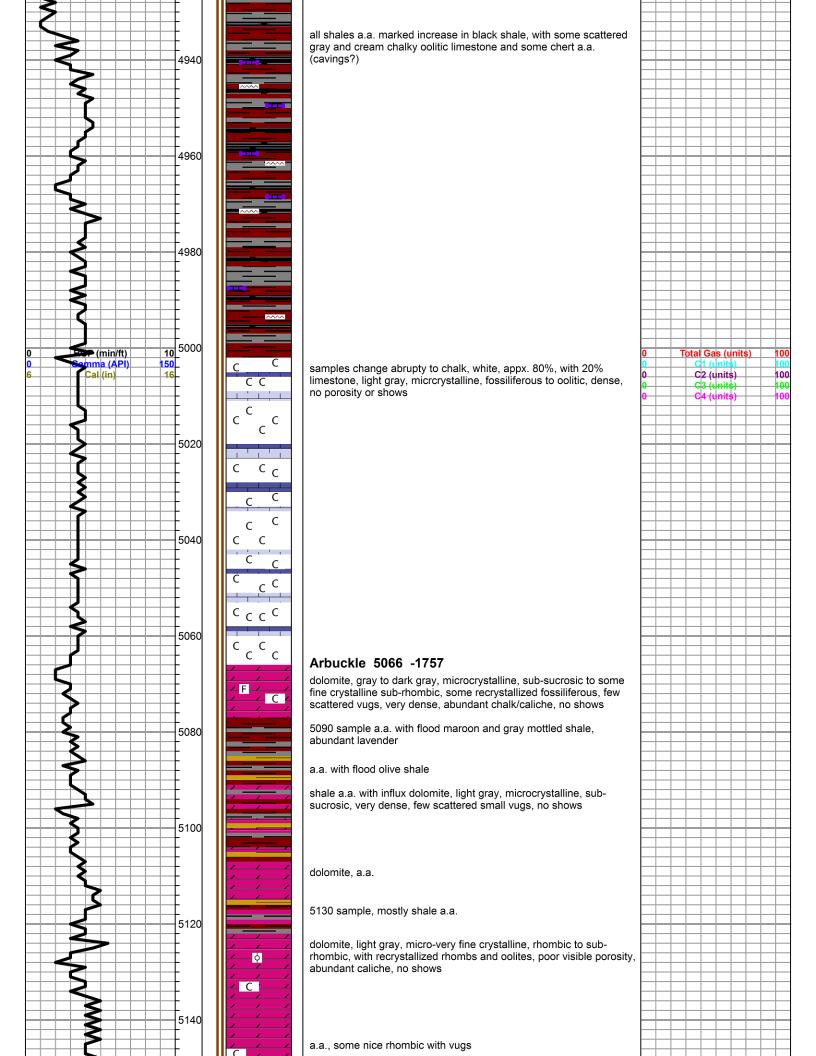


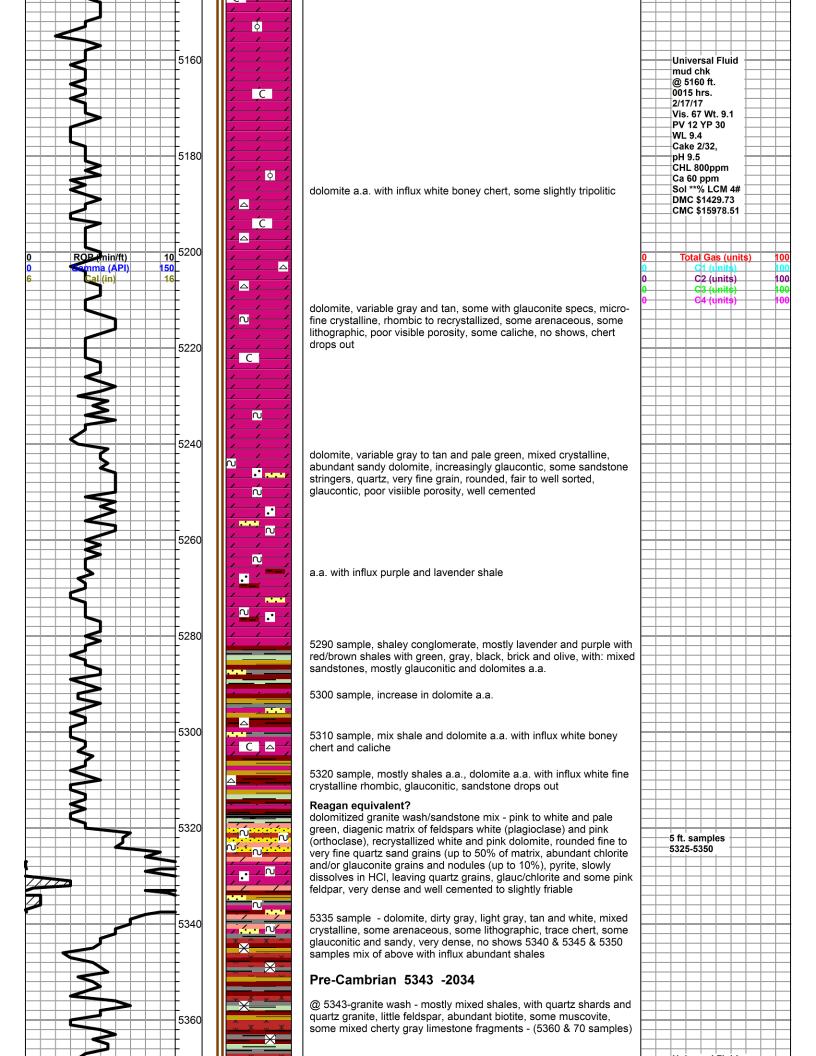


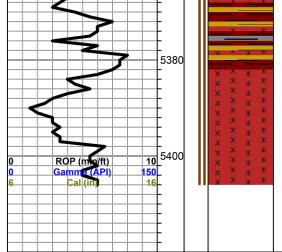
cfs @ 4490 ft DST #5 4530-4556 1425 hrs limestone, cream, bioclast of primarily coral fragments, some large (straddle) 2/14/17 loose frags and coral fans, some good porosity, barren, flood chalk 30-60-30-60 4500 in samples, cfs sample influx cream to light gray and tan pelletal, no rec. 40 ft mud IFP 40-43# FFP 41-41# ISIP 54# cfs@ FSIP 45# 4512 ft HSH 2213-2184# limestone, light gray to cream, dense bioclastic, with cream and light -1630 hrs BHT 130 deg F 2/14/17 gray chert, limestone, light gray to gray, cryptocrystalline, 4520 lithographic to sub-lithographic, some gray arenaceous limestone, no shows DST #4 4527-4565 15-60-30-90 4550 sample, flood black and dark gray shale rec. 365' MW, 252' D D **SLOCMW, 1008'** S Pawnee 4545 -1236 OCMW, 1134' SLOCSLMCW 4560 sample, shale a.a. with limestone, dolomitic, cream to light gray, 4540 crypto-microcrystalline, recrystallized fossiliferous and oolitic to sub-IFP 455-783# D lithographic, very cherty, some small solution vugs, fair interclast FFP 829-1329# porosity, appx 50% sample with varying degrees of staining, slight show ח ISIP 1433# þ free oil, good odor, fair show on break, fair to light fluoresence, good to FSIP 1426# excellent cut, abundant boney to smokey gray chert, sharp, fresh HSH 2148-2134# -BHT 141 dea F 4565 sample, a.a. decrease in shale and slight decrease in show 4565 30 min, limestone, light gray, fine oolitic to sub-oomoldic, fairly 4560 mature oolites, good interoolite porosity, saturated stain, fair show free oil and good sheen, good odor, fair fluoresence, excellent cut, decrease in cherts, 60 min sample, same as previous limestone, sample trashy, cfs@ abundant mixed limestones and shales 4565 ft Universal Fluid F 📤 2040 hrs Ġ mud chk 2/14/17 limestone, gray to dark gray and light brown, mottled, very @ 4525 ft. fossiliferous and partly re-crystallized with ammonites, very dense, 1930 hrs. 2/14/17 dark gray chert, spiculitic with ammonites, no shows Vis. 57 Wt. 9.0 4580 PV 11 YP 15 WL 7.7 limestone, cream, chalky fossiliferous, poor visible porosity, Cake 2/32, FC abundant chalk in samples, with black carbonaceous shale, no pH 11.0 shows . CHL 1200 ppm Ca 40 ppm Sol 3.8% LCM 4# a.a. with mixed fossiliferous limestone, gray/black/brown shale, DMC \$1444.58 ▲ some with small clastic layers, trace smokey-frosted light gray CMC \$12918.59 fossiliferous chert, no shows 4620 sample - grades to limestone, 4600 С **Total Gas (units)** cream to light gray, micro-cryptocrystalline, chalky but dense, fossiliferous, no visible porosity, flood frosted light gray fossiliferous F▲ C2 (units) chert, no shows C3 (units) Cherokee (field pick) 4613 -1304 rough, chatter flood black carbonaceous shale with: limestone, cream to tan, cryptcrystalline with secondary calcite, 4620 F fossiliferous, chalky texture, dense and very cherty to brittle C F a.a. carrying abun variable shales with influx cream to light gray sub-C lithographic dense limestone L limestone, dark gray, slightly mottled cryptocrystalline, sub-F lithographic to fossiliferous, cherty and dense, no shows 4640 True Cherokee shale, black carbonaceous limestone, light gray, mostly cryptocrystalline, fossiliferous, some F secondary calcite and calcite seams, fairly dense and cherty, some chalk with scattered black, gray and red/brown shale, no shows 4660 F F 4680 4700 sample, primarily limestones a.a. with abundant light gray cherts, sharp, fresh ▲ 4710 sample, conglomerate? mixed gray fossiliferous limestones, some weathered, few pieces with black tarry residue, slow milky cut, mixed gray, green and lavender shales, sandstone, dirty gray/brown, very fine to fine grain, angular to rounded, poorly sorted, glauconitic, micaceous, well cemented, calcareous, barren, poor visible porosity, 4700 some orange chert and pyrite, no show free oil and no odor in samples 4719 sample, sandstone, quartz, frosted to white, very fine to medium Universal Fluid

100









5380 sample, a.a., mostly shales, cavings? 99%, shale primarily red/brown platey, brittle, and olive, blocky

#### granite top 5382

5390 sample, increase in feldspar rich vs. quartz granite, total granite content increase, shales decreases to appx 60% granite, pink feldspar, quartz, biotite,

TD and cfs sample, switched back to more quartz dominant granite, very little feldspar, still carrying abundant shale from above

Rotary Total Depth 5406 ft @ 2110 hrs 2/17/17 Pioneer Wireling TD 5410 ft complete logging operations 1530 hrs 2/18/17

	Universal Fluid								
$\dashv$	mud chk	-							
$\neg$	@ 5406 ft.								
$\neg$	2115 hrs. 2/17/17								
	Vis. 58 Wt. 9.1								
	PV 15 YP 23								
$\Box$	WL 8.8								
$\rightarrow$	Cake 2/32.								
$\rightarrow$	pH 9.5								
$\rightarrow$	CHL 900 ppm								
$\rightarrow$	Ca 60 ppm	_							
$\dashv$	Sol **% LCM 4#								
$\neg$	DMC \$1074.20								
$\neg$	CMC \$17052.71								
$\Box$									
0	Total Gas (units)	100							
0	C1 (units)	100							
0—	C2 (units)	100							
<del>0</del> →	C3 (units)	100							
<del>0  </del>	C4 (units)	100							
		1							