



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

Well Name: Love #1-1  
Location: 330' FSL & 2220 FEL Sec. 1 - T. 28 S. - R. 30 W.  
Licence Number: API # 15- 069-20329-0000  
Spud Date: 11/05/2010  
Surface Coordinates: 330' FSL & 2220 FEL Sec. 1 - T. 28 S. - R. 30 W.

Region: Wildcat  
Drilling Completed: 11/22/2010

Bottom Hole Coordinates:

Ground Elevation (ft): 2795' K.B. Elevation (ft): 2808'  
Logged Interval (ft): 1845' To: 5632' LTD Total Depth (ft): 5625' RTD  
Formation: Mississippian Warsaw Formation  
Type of Drilling Fluid: Chemical/Polymer/Gel

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OPERATOR

Company: Falcon Exploration, Inc.  
Address: 125 N. Market, Ste. 1252  
Wichita, Kansas 67202

GEOLOGIST

Name: Keith Reavis, KLG #136 & David P. Williams P.G., KLG # 88  
Company: Consulting Geologists  
Address: Keith Reavis  
3420 22nd Street  
Great Bend, KS 67530

COMMENTS

8 5/8" Surface Casing Set At 1845' Cemented With 675 Sx 65/35 POX (6% Gel; 3% cc; 1/4# Flo); Tailin 150 sx Class A (3% cc; 2% Gel). Allied Cementing. Cement Did Circulate.

5 1/2" Production Casing Will Be Run

# Falcon Exploration, Inc.

## WELL COMPARISON SHEET

DRILLING WELL Falcon Love 1-1 330' FSL & 2200' FEL Sec. 1 T28S R30W					COMPARISON WELL Falcon Exploration - #1 Galloway C NE SW Sec. 11 T28S R30W				COMPARISON WELL Falcon - #1 Nichols C SE SW Sec. 3 T28S R30W			
2808 KB					2807 KB		Structural Relationship		2812 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Chase	2646	162	2646	162	2655	152	10	10	2667	145	17	17
Winfield	2716	92	2718	90	2730	77	15	13	2740	72	20	18
Towanda	2760	48	2762	46	2776	31	17	15	2784	28	20	18
Ft. Riley	2810	-2	2816	-8	2828	-21	19	13	2833	-21	19	13
Cottonwood	3072	-264	3066	-258	3084	-277	13	19	3088	-276	12	18
Neva	3138	-330	3142	-334	3150	-343	13	9	3160	-348	18	14
Foraker	3250	-442	3250	-442	3267	-460	18	18	3270	-458	16	16
Stotler	3481	-673	3488	-680	3499	-692	19	12	3513	-701	28	21
Tarkio	3556	-748	3562	-754	3574	-767	19	13	3588	-776	28	22
Bern	3653	-845	3660	-852	3669	-862	17	10	3685	-873	28	21
Topeka	3758	-950	3759	-951	3772	-965	15	14	3784	-972	22	21
Lecompton	3932	-1124	3939	-1131	3938	-1131	7	0	3942	-1130	6	-1
Heebner	4113	-1305	4118	-1310	4124	-1317	12	7	4128	-1316	11	6
Lansing	4210	-1402	4216	-1408	4225	-1418	16	10	4226	-1414	12	6
Stark	4543	-1735	4549	-1741	4561	-1754	19	13	4572	-1760	25	19
Marmaton	4699	-1891	4710	-1902	4718	-1911	20	9	4724	-1912	21	10
Pawnee	4786	-1978	4792	-1984	4808	-2001	23	17	4807	-1995	17	11
Cherokee Sh.	4835	-2027	4845	-2037	4854	-2047	20	10	4855	-2043	16	6
Morrow Sh.	5019	-2211	5030	-2222	5044	-2237	26	15	5053	-2241	30	19
Miss St. Gen.	5035	-2227	5055	-2247	5133	-2326	99	79	5141	-2329	102	82
St. Louis	5174	-2366	5114	-2306	5233	-2426	60	120	5234	-2422	56	116
St. Louis Por	5192	-2384	5159	-2351					5244	-2432	48	81
Spergen	5328	-2520	5328	-2520	NDE				5368	-2556	36	36
Spergen Por	5339	-2531	5346	-2538					5402	-2590	59	52
Warsaw	5512	-2704	5521	-2713					NDE			
Total Depth	5625	-2817	5632	-2824	5516	-2709	-108	-115	5418	-2606	-211	-218

COMPARISON WELL Falcon - Goossen #1-14 1310' FSL & 880' FEL Sec. 14 T28S R30W					COMPARISON WELL Williams #1-13 1230' FSL & 730' FEL Sec. 13 T28S R30W				COMPARISON WELL Fry 1-23 850' FNL & 1850' FWL Sec. 23 T28S R30W			
2806 KB					2810 KB		Structural Relationship		2801 KB		Structural Relationship	
Formation	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Chase	2657	149	13	13	2674	136	26	26	2610	191	-29	-29
Winfield	2728	78	14	12	2746	64	28	26	2701	100	-8	-10
Towanda	2772	34	14	12	2790	20	28	26	2754	47	1	-1
Ft. Riley	2820	-14	12	6	2840	-30	28	22	2800	1	-3	-9
Cottonwood	3082	-276	12	18	3097	-287	23	29	3046	-245	-19	-13
Neva	3145	-339	9	5	3164	-354	24	20	3122	-321	-9	-13
Foraker	3254	-448	6	6	3273	-463	21	21	3234	-433	-9	-9
Stotler	3486	-680	7	0	3513	-703	30	23	3466	-665	-8	-15
Tarkio	3561	-755	7	1	3586	-776	28	22	3539	-738	-10	-16
Bern	3656	-850	5	-2	3683	-873	28	21	3634	-833	-12	-19
Topeka	3760	-954	4	3	3786	-976	26	25	3738	-937	-13	-14
Lecompton	3932	-1126	2	-5	3968	-1158	34	27	3920	-1119	-5	-12
Heebner	4112	-1306	1	-4	4138	-1328	23	18	4087	-1286	-19	-24
Lansing	4208	-1402	0	-6	4233	-1423	21	15	4185	-1384	-18	-24
Stark	4550	-1744	9	3	4576	-1766	31	25	4539	-1738	3	-3
Marmaton	4710	-1904	13	2	4737	-1927	36	25	4691	-1890	-1	-12
Pawnee	4796	-1990	12	6	4820	-2010	32	26	4777	-1976	-2	-8
Cherokee Sh.	4838	-2032	5	-5	4868	-2058	31	21	4823	-2022	-5	-15
Morrow Sh.	5032	-2226	15	4	5050	-2240	29	18	5017	-2216	5	-6
Miss St. Gen.	5090	-2284	57	37	5094	-2284	57	37	5078	-2277	50	30
St. Louis	5198	-2392	26	86	5183	-2373	7	67	5184	-2383	17	77
St. Louis Por.	5224	-2418	34	67	5188	-2378	-6	27	5196	-2395	11	44
Spergen	5376	-2570	50	50	5409	-2599	79	79	5367	-2566	46	46
Spergen Por	5390	-2584	53	46	5419	-2609	78	71	5381	-2580	49	42
Warsaw	5554	-2748	44	35	5578	-2768	64	55	5542	-2741	37	28
Osage	5844	-3038			5808	-2998			5808	-3007		
Viola	6100	-3294			6134	-3324			6134	-3333		
Arbuckle	6278	-3472			6279	-3469			6279	-3478		
Total Depth	6379	-3573	756	749	6351	-3541	724	717	6351	-3550	733	726

Company **Falcon Exploration, Inc.**  
 Address **125 N. Market, Ste. 1252**  
 CSZ **Wichita, KS 67202**  
 Attn. **Keith Reavis**

Comments **Legal Description: 330'FSL & 2220' FEL**

Lease Name **Love**  
 Lease # **1-1**  
 Legal Desc **See Comments** Job Ticket **2128**  
 Section **1** Range **30W**  
 Township **28S**  
 County **Gray** State **KS**  
 Drilling Cont **Sterling Drilling Co. Rig #5**

**GENERAL INFORMATION**

Test # **1** Test Date **11/10/2010**  
 Tester **Tim Venters**  
 Test Type **Conventional Bottom Hole Successful Test**  
 # of Packers **2.0** Packer Size **6 3/4**  
 Mud Type **Gel Chem**  
 Mud Weight **9.4** Viscosity **33.0**  
 Filtrate **0** Chlorides **34300**  
 Drill Collar Len **279.0**  
 Wght Pipe Len **0**

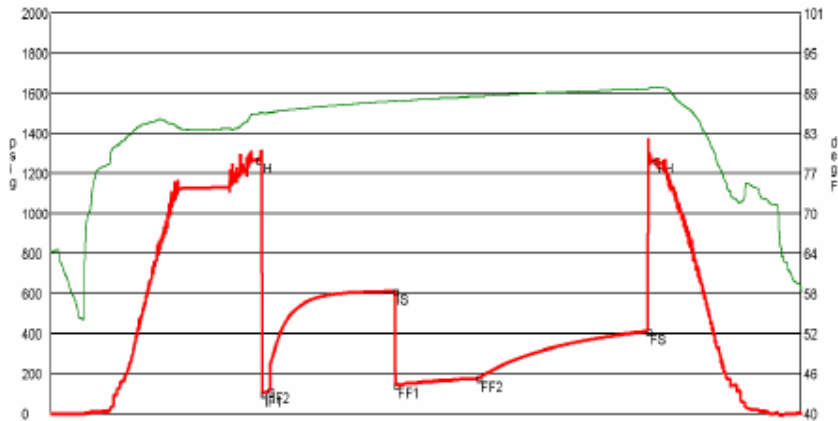
Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **W1119**  
 Mid Recorder # **W1022**  
 Bott Recorder # **13310**  
 Mileage **224** Approved By  
 Standby Time **0**  
 Extra Equipmt **Jars & Safety joint**  
 Time on Site **1:45 AM**  
 Tool Picked Up **3:05 AM**  
 Tool Layed Dwn **11:25 AM**  
 Elevation **2795.00** Kelley Bushings **2808.00**

Formation **Chase/Winfield**  
 Interval Top **2622.0** Bottom **2740.0**  
 Anchor Len Below **118.0** Between **0**  
 Total Depth **2740.0**  
 Blow Type **Fairly weak 1 1/2 inch blow at the start of the initial flow period, building to 7 inches. Fairly weak 1 1/2 inch blow at the start of the final flow period, building, reaching the bottom of the bucket in 12 minutes. It never did blow water out of the bucket. Weak surface blow back during the final shut-in period, lasting about 20 to 30 minutes. Times: 5, 90, 60, 120.**

Start Date/Time **11/10/2010 2:32 AM**  
 End Date/Time **11/10/2010 11:27 AM**

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
205	Mud	0% 0ft	0% 0ft	0% 0ft	100% 205ft



Date	Time	Pressure	Temp		
IH	11/10/2010 4:59:20 AM	2.455556	1267.428	85.743	Initial Hydro-static
IF1	11/10/2010 5:02:40 AM	2.511111	102.102	85.789	Initial Flow (1)
IF2	11/10/2010 5:07:50 AM	2.597222	117.939	85.836	Initial Flow (2)
IS	11/10/2010 6:37:10 AM	4.086111	611.353	87.653	Initial Shut-in
FF1	11/10/2010 6:38:00 AM	4.1	146.48	87.602	Final Flow (1)
FF2	11/10/2010 7:37:10 AM	5.086111	175.962	88.337	Final Flow (2)
FS	11/10/2010 9:37:50 AM	7.097222	412.562	89.461	Final Shut-in
FH	11/10/2010 9:43:10 AM	7.186111	1265.102	89.702	Final Hydro-static

Company **Falcon Exploration, Inc.**  
 Address **125 N. Market, Ste. 1252**  
 CSZ **Wichita, KS 67202**  
 Attn. **Keith Reavis**

Lease Name **Love**  
 Lease # **1-1**  
 Legal Desc **See Comments** Job Ticket **2128**  
 Section **1** Range **30W**  
 Township **28S**  
 County **Gray** State **KS**  
 Drilling Cont **Sterling Drilling Co. Rig #5**

Comments **Legal Description: 330'FSL & 2220' FEL**

**GENERAL INFORMATION**

Test # **2** Test Date **11/11/2010**  
 Tester **Tim Venters**  
 Test Type **Conventional Bottom Hole Successful Test**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **W1119**  
 Mid Recorder # **W1022**  
 Bott Recorder # **13310**

# of Packers **2.0** Packer Size **6 3/4**

Mileage **224** Approved By  
 Standby Time **0**  
 Extra Equipmnt **Jars & Safety joint**  
 Time on Site **9:30 AM**  
 Tool Picked Up **11:05 AM**  
 Tool Layed Dwn **6:30 PM**

Mud Type **Gel Chem**  
 Mud Weight **8.5** Viscosity **42.0**  
 Filtrate **9.2** Chlorides **800**

Elevation **2795.00** Kelley Bushings **2808.00**

Drill Collar Len **279.0**  
 Wght Pipe Len **0**

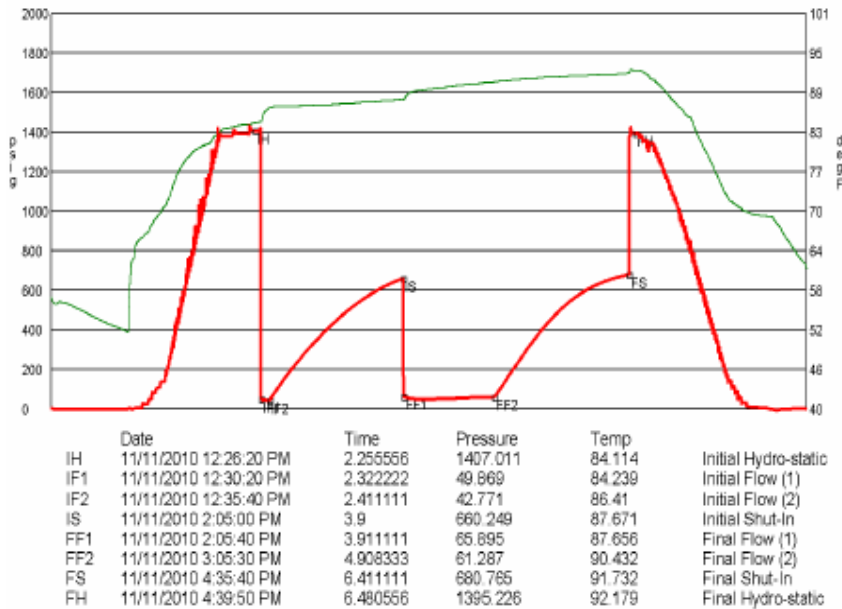
Formation **Red Eagle**  
 Interval Top **3150.0** Bottom **3200.0**  
 Anchor Len Below **50.0** Between **0**  
 Total Depth **3200.0**

Start Date/Time **11/11/2010 10:11 AM**  
 End Date/Time **11/11/2010 6:34 PM**

Blow Type **Fairly strong 2 inch blow at the start of the initial flow period, building, reaching the bottom of the bucket in 4 minutes. Very strong blow at the start of the final flow period, hitting the bottom of the bucket instantaneously. I bled the line off after 10 minutes and it took blow 9 minutes to make it back to the bottom of the bucket. Times: 5, 90, 60, 90.**

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
120	Mud	0% 0ft	0% 0ft	0% 0ft	100% 120ft



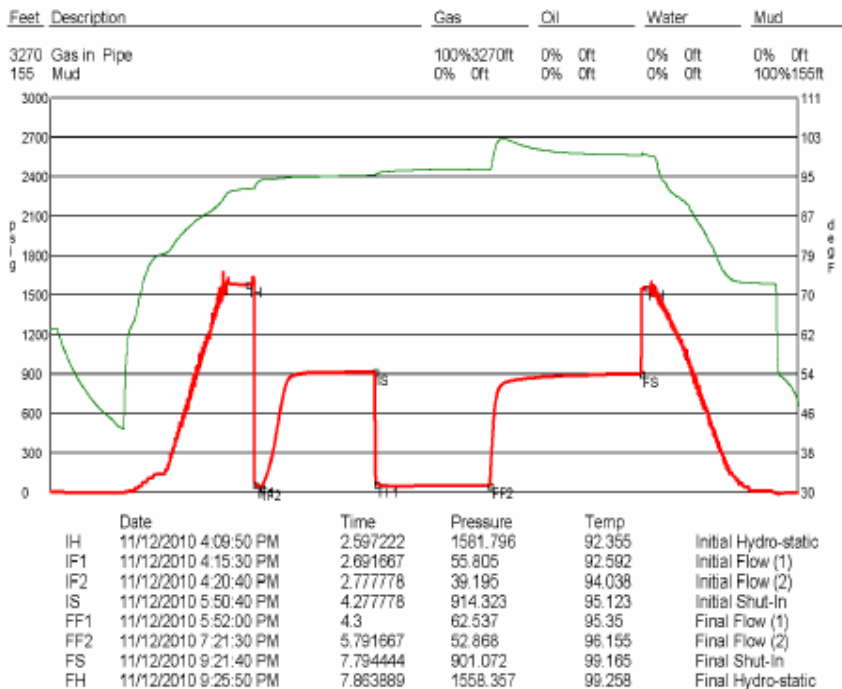
Company	<b>Falcon Exploration, Inc.</b>	Lease Name	<b>Love</b>
Address	<b>125 N. Market, Ste. 1252</b>	Lease #	<b>1-1</b>
CSZ	<b>Wichita, KS 67202</b>	Legal Desc	<b>See Comments</b>
Attn.	<b>Keith Reavis</b>	Section	<b>1</b>
		Township	<b>28S</b>
		County	<b>Gray</b>
		Drilling Cort	<b>Sterling Drilling Co. Rig #5</b>
Job Ticket	<b>2128</b>	State	<b>KS</b>
Range	<b>30W</b>		

Comments    **Legal Description: 330' FSL & 2220' FEL**

**GENERAL INFORMATION**

Test #	<b>3</b>	Test Date	<b>11/13/2010</b>	Chokes	<b>3/4</b>	Hole Size	<b>7 7/8</b>
Tester	<b>Tim Venters</b>	Top Recorder #	<b>W1119</b>	Mid Recorder #	<b>W1022</b>	Bott Recorder #	<b>13310</b>
Test Type	<b>Conventional Bottom Hole Successful Test</b>	Mileage	<b>224</b>	Approved By			
# of Packers	<b>2.0</b>	Packer Size	<b>6 3/4</b>	Standby Time	<b>0</b>	Extra Equipment	<b>Jars &amp; Safety joint</b>
Mud Type	<b>Gel Chem</b>	Time on Site	<b>11:00 AM</b>	Tool Picked Up	<b>2:35 PM</b>	Tool Layed Dwn	<b>11:25 PM</b>
Mud Weight	<b>8.7</b>	Viscosity	<b>56.0</b>	Elevation	<b>2795.00</b>	Kelley Bushings	<b>2808.00</b>
Filtrate	<b>7.2</b>	Chlorides	<b>1500</b>	Start Date/Time	<b>11/12/2010 1:34 PM</b>	End Date/Time	<b>11/12/2010 11:27 PM</b>
Drill Collar Len	<b>279.0</b>	Formation	<b>Stotler</b>	Interval Top	<b>3448.0</b>	Bottom	<b>3515.0</b>
Wght Pipe Len	<b>0</b>	Anchor Len Below	<b>67.0</b>	Total Depth	<b>3515.0</b>	Blow Type	<b>Fairly strong 2 inch blow at the start of the initial flow period, building, reaching the bottom of the bucket in 1 minute. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to surface in 9 minutes. Times: 5, 90, 91, 120.</b>

**RECOVERY**



**GAS FLOWS**

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	20.90 mcf	11.00 h2o	0.50 in
0	20	28.00 mcf	20.00 h2o	0.50 in
0	30	32.55 mcf	27.00 h2o	0.50 in
0	40	36.50 mcf	36.50 h2o	0.50 in
0	50	66.60 mcf	22.00 h2o	0.75 in
0	60	60.20 mcf	18.00 h2o	0.75 in
0	70	61.90 mcf	19.00 h2o	0.75 in
0	80	66.60 mcf	22.00 h2o	0.75 in
0	90	69.50 mcf	24.00 h2o	0.75 in

Company **Falcon Exploration, Inc.**  
 Address **125 N. Market, Ste. 1252**  
 CSZ **Wichita, KS 67202**  
 Attn. **Keith Reavis**

Lease Name **Love**  
 Lease # **1-1**  
 Legal Desc **See Comments** Job Ticket **2128**  
 Section **1** Range **30W**  
 Township **28S**  
 County **Gray** State **KS**  
 Drilling Cont **Sterling Drilling Co. Rig #5**

Comments **Legal Description: 330'FSL & 2220' FEL**

**GENERAL INFORMATION**

Test # **4** Test Date **11/13/2010**  
 Tester **Tim Venters**  
 Test Type **Conventional Bottom Hole Successful Test**

# of Packers **2.0** Packer Size **6 3/4**

Mud Type **Gel Chem**  
 Mud Weight **9.0** Viscosity **49.0**  
 Filtrate **7.6** Chlorides **2100**

Drill Collar Len **279.0**  
 Wght Pipe Len **0**

Formation **Tarkio**  
 Interval Top **3552.0** Bottom **3585.0**  
 Anchor Len Below **33.0** Between **0**  
 Total Depth **3585.0**  
 Blow Type **Strong 6 inch blow at the start of the initial flow period, building, reaching the bottom of the bucket in 1 minute. I had my 2 inch flow valve open about 1/4 inch and still blew off bottom. Weak surface blow back during the initial shut-in period. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to surface in 10 minutes. Times: 5, 90, 90, 120.**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **W1119**  
 Mid Recorder # **W1022**  
 Bott Recorder # **13310**

Mileage **64** Approved By

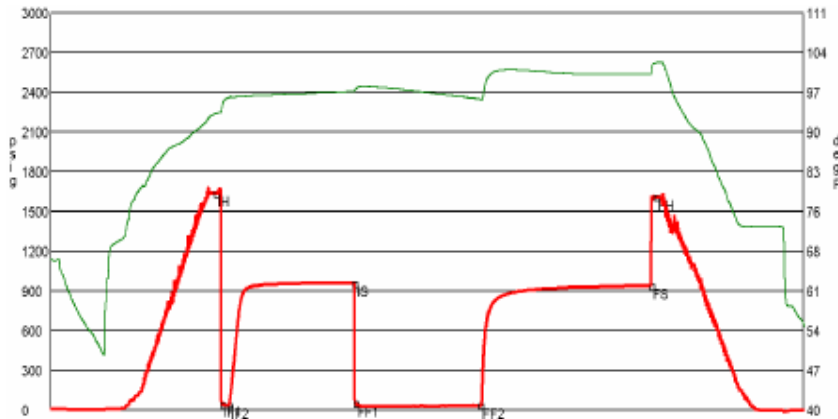
Standby Time **0**  
 Extra Equipment **Jars & Safety joint**  
 Time on Site **8:50 AM**  
 Tool Picked Up **10:05 AM**  
 Tool Layed Dwn **6:20 PM**

Elevation **2795.00** Kelley Bushings **2806.00**

Start Date/Time **11/13/2010 9:25 AM**  
 End Date/Time **11/13/2010 6:21 PM**

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
3450	Gas in Pipe	100% 3450ft	0% 0ft	0% 0ft	0% 0ft
80	Mud	0% 0ft	0% 0ft	0% 0ft	100% 80ft



	Date	Time	Pressure	Temp		
IH	11/13/2010	11:21:30 AM	1.941667	1638.174	92.96	Initial Hydro-static
IF1	11/13/2010	11:25:50 AM	2.013889	47.11	93.73	Initial Flow (1)
IF2	11/13/2010	11:31:00 AM	2.1	34.181	95.869	Initial Flow (2)
IS	11/13/2010	1:00:30 PM	3.591667	958.528	96.949	Initial Shut-in
FF1	11/13/2010	1:01:30 PM	3.608333	49.992	97.311	Final Flow (1)
FF2	11/13/2010	2:30:10 PM	5.086111	34.992	95.602	Final Flow (2)
FS	11/13/2010	4:31:50 PM	7.113889	939.035	100.041	Final Shut-in
FH	11/13/2010	4:35:20 PM	7.172222	1611.191	102.099	Final Hydro-static

**GAS FLOWS**

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	30.10 mcf	4.50 h2o	0.75 in
0	20	34.70 mcf	6.00 h2o	0.75 in
0	30	41.25 mcf	8.50 h2o	0.75 in
0	40	46.00 mcf	10.50 h2o	0.75 in
0	50	50.35 mcf	12.50 h2o	0.75 in
0	60	53.30 mcf	14.00 h2o	0.75 in
0	70	55.20 mcf	15.00 h2o	0.75 in
0	80	56.80 mcf	16.00 h2o	0.75 in
0	90	58.50 mcf	17.00 h2o	0.75 in

Company **Falcon Exploration, Inc.**  
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 Attn. **Keith Reavis**

Lease Name **Love**  
 Lease # **1-1**  
 Legal Desc **See Comments** Job Ticket **2128**  
 Section **1** Range **30W**  
 Township **28S**  
 County **Gray** State **KS**  
 Drilling Cont **Sterling Drilling Co. Rig #5**

Comments **Legal Description: 330'FSL & 2220' FEL**

**GENERAL INFORMATION**

Test # **5** Test Date **11/15/2010**  
 Tester **Tim Venters**  
 Test Type **Conventional Bottom Hole Successful Test**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **W1119**  
 Mid Recorder # **W1022**  
 Bott Recorder # **13310**

# of Packers **2.0** Packer Size **6 3/4**

Mileage **64** Approved By  
 Standby Time **0**  
 Extra Equipmnt **Jars & Safety joint**  
 Time on Site **11:50 PM**  
 Tool Picked Up **2:25 AM**  
 Tool Layed Dwn **11:50 AM**

Mud Type **Gel Chem**  
 Mud Weight **9.1** Viscosity **50.0**  
 Filtrate **8.8** Chlorides **3000**

Elevation **2795.00** Kelley Bushings **2808.00**

Drill Collar Len **279.0**  
 Wght Pipe Len **0**

Formation **Toronto**  
 Interval Top **4112.0** Bottom **4166.0**  
 Anchor Len Below **54.0** Between **0**  
 Total Depth **4166.0**

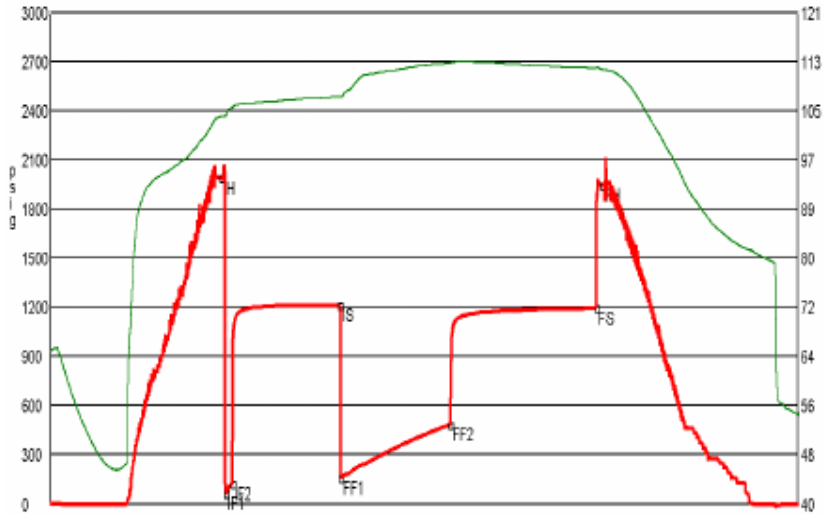
Start Date/Time **11/15/2010 1:37 AM**  
 End Date/Time **11/15/2010 11:55 AM**

Blow Type **Fairly weak 1 inch blow at the start of the initial flow period, building to 9 inches. Weak surface blow at the start of the final flow period, building, reaching the bottom of the bucket in 10 1/2 minutes. 1 bled line off 20 minutes into period and it took 11 minutes to get back to bottom. It never did blow water out of the bucket. Times: 5, 90, 91, 120.**

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
10	Water out mud	0% 0ft	0% 0ft	33% 3.3ft	67% 6.7ft
125	Very heavy mud out water	0% 0ft	0% 0ft	53% 66.2ft	47% 58.8ft
755	Very slight mud out water	0% 0ft	0% 0ft	91% 68.7ft	9% 6.8ft
60	Water out mud	0% 0ft	0% 0ft	23% 13.6ft	77% 46.2ft

D6T Fluids **113000**



	Date	Time	Pressure	Temp	
IH	11/15/2010	3:57:10 AM	2,336.111	103.833	Initial Hydro-static
IF1	11/15/2010	4:00:50 AM	2,397.222	103.875	Initial Flow (1)
IF2	11/15/2010	4:06:30 AM	2,491.667	105.287	Initial Flow (2)
IS	11/15/2010	5:35:40 AM	3,977.778	107.129	Initial Shut-In
FF1	11/15/2010	5:36:30 AM	3,991.667	107.055	Final Flow (1)
FF2	11/15/2010	7:07:20 AM	5,505.556	112.702	Final Flow (2)
FS	11/15/2010	9:07:30 AM	7,508.333	111.857	Final Shut-In
FH	11/15/2010	9:12:40 AM	7,594.444	111.63	Final Hydro-static

Company	<b>Falcon Exploration, Inc.</b>	Lease Name	<b>Love</b>
Address	<b>125 N. Market, Ste. 1252</b>	Lease #	<b>1-1</b>
CSZ	<b>Wichita, KS 67202</b>	Legal Desc	<b>See Comments</b>
Attn.	<b>Keith Reavis</b>	Section	<b>1</b>
		Township	<b>28S</b>
		County	<b>Gray</b>
		Drilling Cort	<b>Sterling Drilling Co. Rig #5</b>
Job Ticket	<b>2128</b>	State	<b>KS</b>
Range	<b>30W</b>		

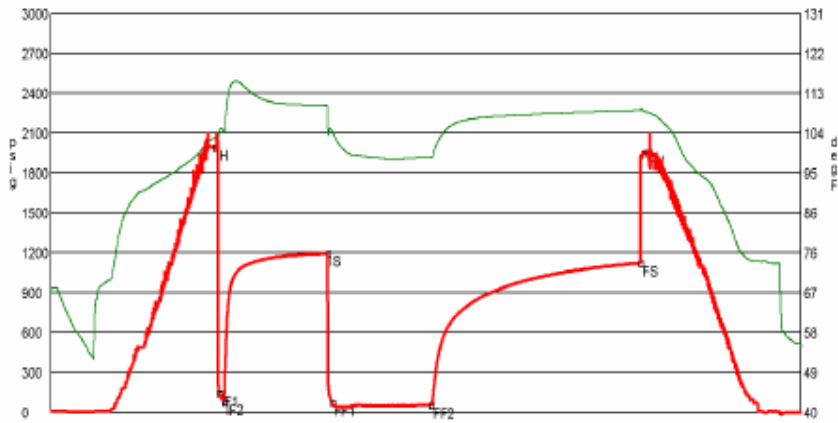
Comments **Legal Description: 330' FSL & 2220' FEL**

**GENERAL INFORMATION**

Test #	<b>6</b>	Test Date	<b>11/16/2010</b>	Chokes	<b>3/4</b>	Hole Size	<b>7 7/8</b>
Tester	<b>Tim Venters</b>			Top Recorder #	<b>W1119</b>		
Test Type	<b>Conventional Bottom Hole</b>			Mid Recorder #	<b>W1022</b>		
	<b>Successful Test</b>			Botl Recorder #	<b>13310</b>		
# of Packers	<b>2.0</b>	Packer Size	<b>6 3/4</b>	Mileage	<b>64</b>	Approved By	
Mud Type	<b>Gel Chem</b>			Standby Time	<b>0</b>		
Mud Weight	<b>9.2</b>	Viscosity	<b>51.0</b>	Extra Equipmnt	<b>Jars 7 Safety joint</b>		
Filtrate	<b>8.0</b>	Chlorides	<b>3200</b>	Time on Site	<b>10:40 PM</b>		
Drill Collar Len	<b>279.0</b>			Tool Picked Up	<b>12:00 AM</b>		
Wght Pipe Len	<b>0</b>			Tool Layed Dwn	<b>10:10 AM</b>		
				Elevation	<b>2795.00</b>	Kelley Bushings	<b>2808.00</b>
Formation	<b>Lansing "A"</b>			Start Date/Time	<b>11/15/2010 11:21 PM</b>		
Interval Top	<b>4182.0</b>	Bottom	<b>4240.0</b>	End Date/Time	<b>11/16/2010 10:13 AM</b>		
Anchor Len Below	<b>58.0</b>	Between	<b>0</b>				
Total Depth	<b>4240.0</b>						
Blow Type	<b>Very strong blow throughout the initial flow period, hitting the bottom of the bucket instantaneously. I had my 2 inch flow valve open all the way and still hit off bottom. Very strong blow throughout the final flow period, hitting the bot tom of the bucket instantaneously. Gas to surface instantaneously. Times: 5, 9 0, 90, 182.</b>						

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
3955	Gas in Pipe	100% 3955ft	0% 0ft	0% 0ft	0% 0ft
145	Mud	0% 0ft	0% 0ft	0% 0ft	100% 145ft
60	Gassy mud with a very slight trace of oil	7% 4.2ft	trace	0% 0ft	83% 55.8ft



Date	Time	Pressure	Temp	
11/16/2010	1:42:30 AM	2.358333	1993.365	102.543
11/16/2010	1:46:40 AM	2.427778	144.367	103.868
11/16/2010	1:51:00 AM	2.5	80.013	104.018
11/16/2010	3:21:10 AM	4.002778	1195.759	110.059
11/16/2010	3:25:00 AM	4.066667	73.796	104.188
11/16/2010	4:51:20 AM	5.505556	54.674	98.233
11/16/2010	7:53:10 AM	8.536111	1123.565	108.909
11/16/2010	7:58:30 AM	8.625	1953.443	108.45

**GAS FLOWS**

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	81.80 mcf	5.50 psig	0.50 in
0	20	47.70 mcf	2.00 psig	0.50 in
0	30	76.45 mcf	29.00 h2o	0.75 in
0	40	60.20 mcf	18.00 h2o	0.75 in
0	50	54.25 mcf	14.50 h2o	0.75 in
0	60	50.35 mcf	12.50 h2o	0.75 in
0	70	46.00 mcf	10.50 h2o	0.75 in
0	80	43.65 mcf	9.50 h2o	0.75 in
0	90	40.00 mcf	8.00 h2o	0.75 in



Company **Falcon Exploration, Inc.**  
 Address **125 N. Market, Ste. 1252**  
 CSZ **Wichita, KS 67202**  
 Attn. **Keith Reavis**

Lease Name **Love**  
 Lease # **1-1**  
 Legal Desc **See Comments** Job Ticket **2128**  
 Section **1** Range **30W**  
 Township **28S**  
 County **Gray** State **KS**  
 Drilling Cont **Sterling Drilling Co. Rig #5**

Comments **Legal Description: 330'FSL & 2220' FEL**

**GENERAL INFORMATION**

Test # **7** Test Date **11/17/2010**  
 Tester **Tim Venters**  
 Test Type **Conventional Bottom Hole Successful Test**  
 # of Packers **2.0** Packer Size **6 3/4**  
 Mud Type **Gel Chem**  
 Mud Weight **9.1** Viscosity **56.0**  
 Filtrate **7.2** Chlorides **2900**  
 Drill Collar Len **279.0**  
 Wght Pipe Len **0**

Chokes **3/4** Hole Size **7 7/8**  
 Top Recorder # **W1119**  
 Mid Recorder # **W1022**  
 Bott Recorder # **13310**  
 Mileage **64** Approved By  
 Standby Time **0**  
 Extra Equipment **Jars & Safety joint**  
 Time on Site **6:10 AM**  
 Tool Picked Up **10:35 AM**  
 Tool Layed Down **8:05 PM**  
 Elevation **2795.00** Kelley Bushings **2806.00**

Formation **Kansas City**  
 Interval Top **4390.0** Bottom **4417.0**  
 Anchor Len Below **27.0** Between **0**  
 Total Depth **4417.0**

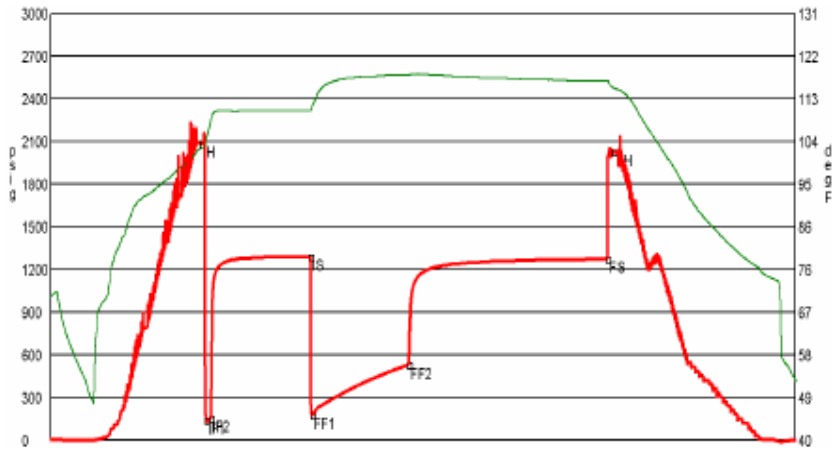
Start Date/Time **11/17/2010 9:53 AM**  
 End Date/Time **11/17/2010 9:09 PM**

Blow Type **Very strong blow throughout the initial flow period, hitting the bottom of the bucket instantaneously. I had my 2 inch flow valve open about half way and still blew off bottom. Weak surface blow back during the initial shut-in period, lasting about 15-20 minutes. Strong 6 inch blow at the start of the final flow period, building, reaching the bottom of the bucket in 1 minute. Gas to surface in 30 minutes, but it was too weak to measure. Times: 5, 90, 90, 180.**

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
3285	Gas in Pipe	100% 3285ft	0% 0ft	0% 0ft	0% 0ft
75	Mud with a very slight trace of oil	0% 0ft	trace	0% 0ft	100% 75ft
130	Water cut mud	0% 0ft	0% 0ft	23% 29.8ft	77% 100.1ft
315	Slight mud cut water	0% 0ft	0% 0ft	90% 283.5ft	10% 31.5ft
500	Water	0% 0ft	0% 0ft	100% 500ft	0% 0ft
55	Very slight mud cut water	0% 0ft	0% 0ft	99% 54.4ft	1% 0.6ft
5	Mud	0% 0ft	0% 0ft	0% 0ft	100% 5ft

D&T Fluids **99000**



Date	Time	Pressure	Temp	
11/17/2010 12:09:00 PM	2.266667	2086.408	102.236	Initial Hydro-static
11/17/2010 12:13:30 PM	2.341667	142.404	104.09	Initial Flow (1)
11/17/2010 12:17:30 PM	2.408333	156.709	108.078	Initial Flow (2)
11/17/2010 1:48:10 PM	3.919444	1291.727	110.302	Initial Shut-in
11/17/2010 1:49:30 PM	3.941667	178.647	110.859	Final Flow (1)
11/17/2010 3:17:30 PM	5.408333	530.923	117.893	Final Flow (2)
11/17/2010 6:17:40 PM	8.411111	1275.596	116.598	Final Shut-in
11/17/2010 6:23:40 PM	8.511111	2026.152	115.087	Final Hydro-static

Company	Falcon Exploration, Inc.	Lease Name	Love
Address	125 N. Market, Ste. 1252	Lease #	1-1
CSZ	Wichita, KS 67202	Legal Desc	See Comments
Attn.	Keith Reavis	Section	1
		Township	28S
		County	Gray
		Drilling Cont	Sterling Drilling Co. Rig #5
		Job Ticket	2128
		Range	30W
		State	KS

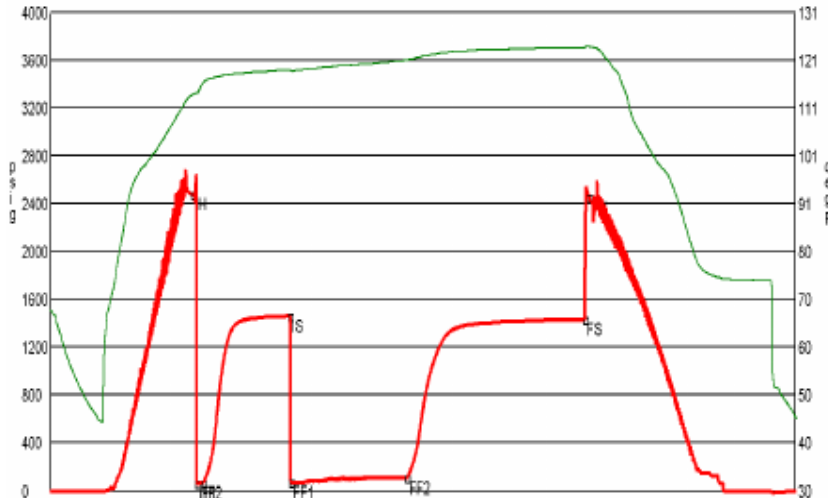
Comments    **Legal Description: 330'FSL & 2220' FEL**

**GENERAL INFORMATION**

Test # 8	Test Date 11/21/2010	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters	Top Recorder #	W1119		
Test Type	Conventional Bottom Hole	Mid Recorder #	W1022		
	Successful Test	Bot Recorder #	13310		
# of Packers	2.0	Packer Size	6 3/4	Mileage	64
				Approved By	
Mud Type	Gel Chem	Standby Time	0	Extra Equipmnt	Jars & Safety joint
Mud Weight	9.3	Viscosity	53.0	Time on Site	2:20 PM
Filtrate	6.4	Chlorides	2000	Tool Picked Up	6:40 PM
				Tool Layed Dwn	6:20 AM
Drill Collar Len	279.0	Elevation	2795.00	Kelley Bushings	2808.00
Wght Pipe Len	0				
Formation	Upper St. Louis	Start Date/Time	11/20/2010 5:44 PM		
Interval Top	5140.0	Bottom	5204.0	End Date/Time	11/21/2010 6:25 AM
Anchor Len Below	64.0	Between	0		
Total Depth	5204.0				
Blow Type	Weak surface blow at the start of the initial flow period, building to 9 inches. Weak surface blow back during the intial shut-in period, building to 1/4 inch. Very strong blow at the start of the final flow period, hitting the bottom of the bucket instantaneously. Weak surface blow back during the final shut-in period, building, reaching the bottom of the bucket in 48 1/2 minutes. Times: 5, 9 0, 120, 180. Oil Gravity: 31.				

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
3780	Gas in Pipe	100% 3780ft	0% 0ft	0% 0ft	0% 0ft
75	Clean oil	0% 0ft	100% 75ft	0% 0ft	0% 0ft
120	Gassy, slight oil cut mud	8% 9.6ft	21% 25.2ft	0% 0ft	71% 85.2ft
125	Gassy, very slight mud cut oil	3% 3.6ft	65% 106.2ft	0% 0ft	12% 15ft



	Date	Time	Pressure	Temp	
IH	11/20/2010	8:08:40 PM	2411111	113.669	Initial Hydro-static
IF1	11/20/2010	8:12:50 PM	2480556	62.002	Initial Flow (1)
IF2	11/20/2010	8:19:00 PM	2563333	61.576	Initial Flow (2)
IS	11/20/2010	9:48:00 PM	4066667	1455.655	Initial Shut-in
FF1	11/20/2010	9:49:00 PM	4063333	70.884	Final Flow (1)
FF2	11/20/2010	11:48:00 PM	6066667	104.921	Final Flow (2)
FS	11/21/2010	2:49:10 AM	9086111	1430.123	Final Shut-in
FH	11/21/2010	2:53:30 AM	9158333	2453.499	Final Hydro-static

# ROCK TYPES

## LITHOLOGY

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol
- Gyp
- Igne
- Lmst
- Meta
- Mrst
- Salt
- Shale
- Shcol
- Shgy
- Slstst
- Ss
- Till
- Slststn
- Shale
- Sandylms
- Lms
- Gry sh
- Dtd
- Dol
- Carb sh
- pipesymbol

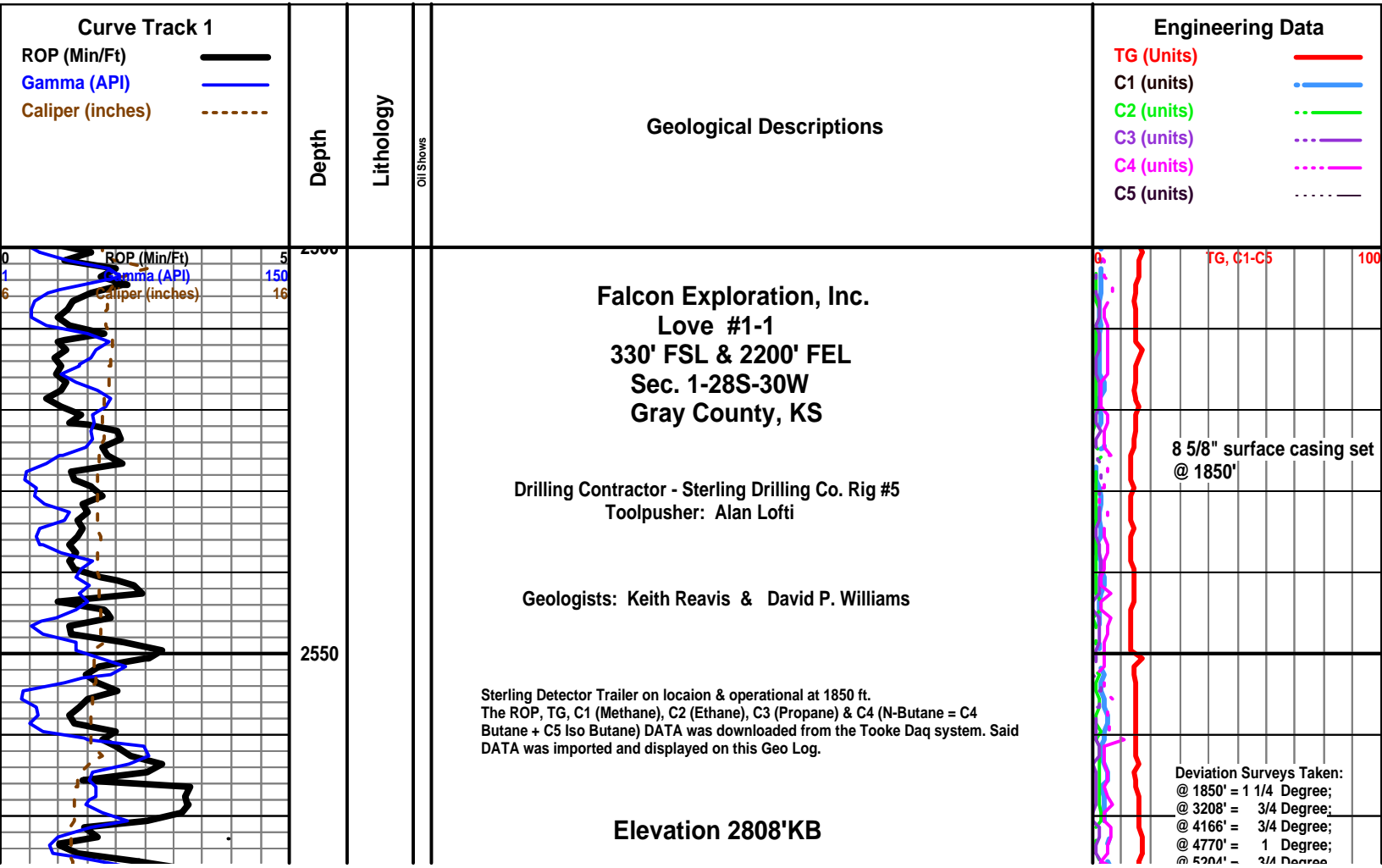
- unknown lith
  - Red shale
- ## FOSSIL
- Oomoldic
  - Fuss
  - Algae
  - Amph
  - Belm
  - Bioclst
  - Brach
  - Bryozoa
  - Cephal
  - Coral
  - Crin
  - Echin
  - Fish
  - Foram
  - Fossil
  - Gastro
  - Oolite
  - Ostra
  - Pelec
  - Pellet
  - Pisolite
  - Plant
  - Strom
- ## MINERAL
- Silty

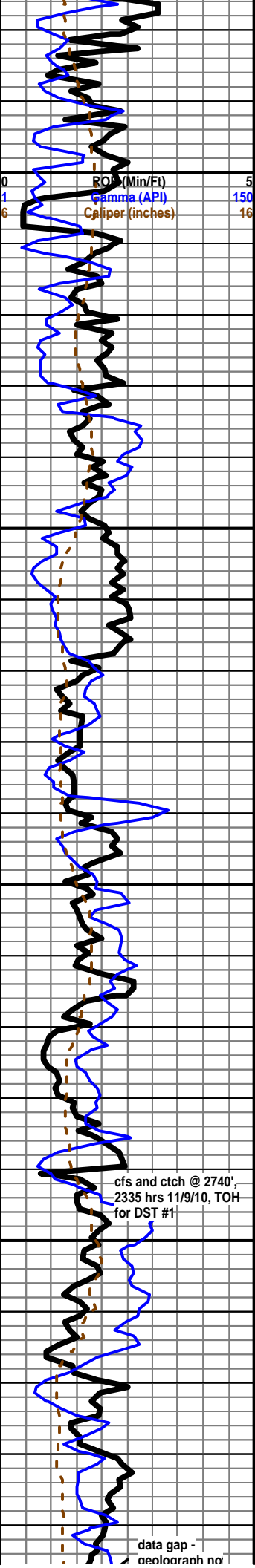
- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil

- ## STRINGER
- Red shale
  - Sh
  - Sandylms
  - Lms
  - Gryslt
  - Grysh
  - Dol
  - Clystn
  - Carbsh
  - Anhy
  - Arg
  - Bent
  - Coal
  - Dol
  - Gyp
  - Ls
  - Mrst
  - Slststrg
  - Ssstrg
- ## TEXTURE
- Boundst
  - Chalky
  - Cryxln
  - Earthy
  - Finexln

- Sulphur
  - Tuff
- ## OIL SHOW
- Gas show
  - Good
  - Fair
  - Poor
  - Dead
- ## INTERVAL
- Dst
  - Core
  - Dst
  - Straddle test t
- ## EVENT
- Rft
  - Sidewall
  - Dst
  - Open hole
  - Perforations

- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest





ROF (Min/Ft) 5  
Gamma (API) 150  
Caliper (inches) 16

2622

2650

2700

2740

2750

cfs and ctch @ 2740',  
2335 hrs 11/9/10, TOH  
for DST #1

data gap -  
geolograph no

### Chase Group 2646 +161

mostly red, green, gray shales and anhydrite in samples, some dolomite, gray to light gray, microcrystalline, soft, gritty-arenaceous, no visible porosity, some pale green fluorescence, no shows

poor samples, some dolomite as above, with dolomite, gray/green, microcrystalline, arenaceous, dense, poor fluorescence, few pieces cream, cherty, fossiliferous in part, fair bluish green fluorescence, no visible shows or odor

DST # 1 Time: 5"-90"-60"-120";  
BLOW: Fairly weak 1 1/2" blow building to 7". Fairly weak 1 1/2" blow building to BOB in 12" of FF. Weak surface blow back during FSIP.  
Recovery: 205' Mud.  
Pressures: IH = 1267#; FH= 1265 #; IF= 102-118#; FF=147-176#; ISIP = 611 #; FSIP = 413 #; T.=90 Degrees

### Winfield 2716 +91

dolomite, gray, microcrystalline, mottled, fossiliferous, pelletal to oolitic, grainy, cherty, some vugs and molds, no visible shows, faint green mineral fluorescence, no odor

Mud-Co Mud Ck @ 2740'  
0825 hrs 11/10/10  
Vis 33 Wt 9.4  
PV 3 YP 3  
WL nc  
Cake -  
PH 7.0  
CHL 34300 ppm  
Cal hvy  
Sol 5.9  
LCM: tr #/bbl  
DMC: \$2687.45  
CMC: \$8098.45

### Towanda 2760 +48

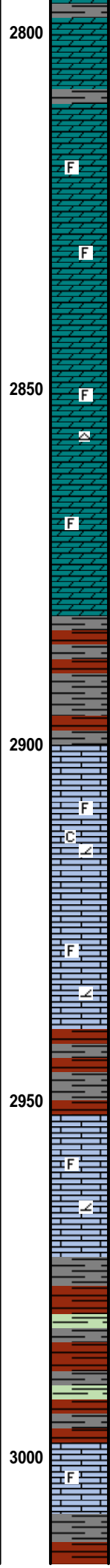
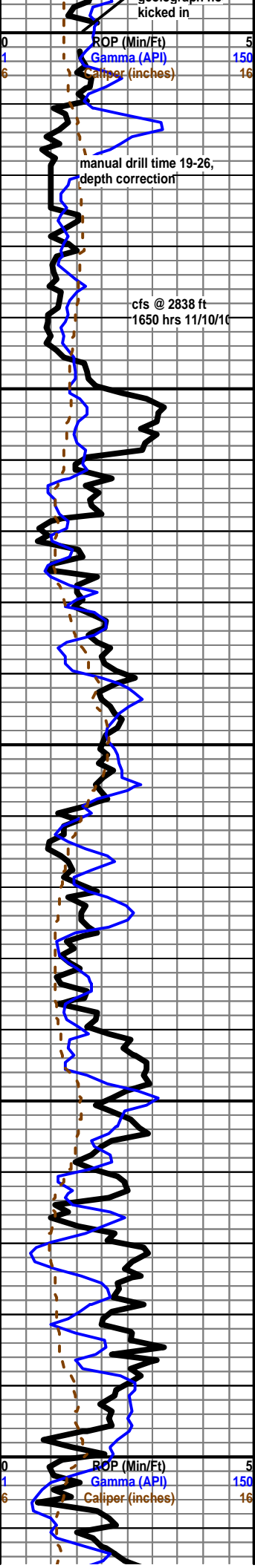
dolomite, gray to light gray, microcrystalline, mottled, arenaceous, dense, with dolomitic limestone dolomite, light gray to cream, mottled slightly fossiliferous, chert, light gray, fossiliferous, sharp, fresh, no shows, no fluorescence

extractor plugging sample box full

begin 20 ft wet and dry samples @ 2600 ft

TG, C1-C5

100



**Fort Riley 2810 -2**

dolomite, gray, mottled, microcrystalline, sub-sucrosic in part, dense, fossiliferous, poor visible porosity, no shows, some faint mineral fluorescence

**BEGIN 10 FT WET AND DRY SAMPLES**

as above, some soft gray silty shales and trace chert- fairly good sample quality

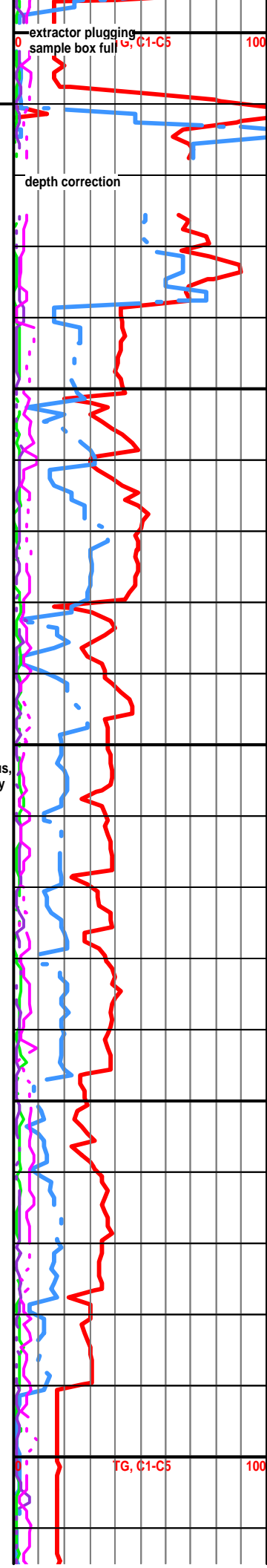
flood red and gray shales, samples wash red, with: limestone, cream to white, slightly fossiliferous, chalky in part, grainy in part, limestone, pale green/gray, dolomitic, arenaceous, some soft, mostly dense, no shows, pale bluish white fluorescence

as above

as above, some chalky very fossiliferous to oolitic, no shows, increasing shale in samples

flood soft red shales, some gray and green

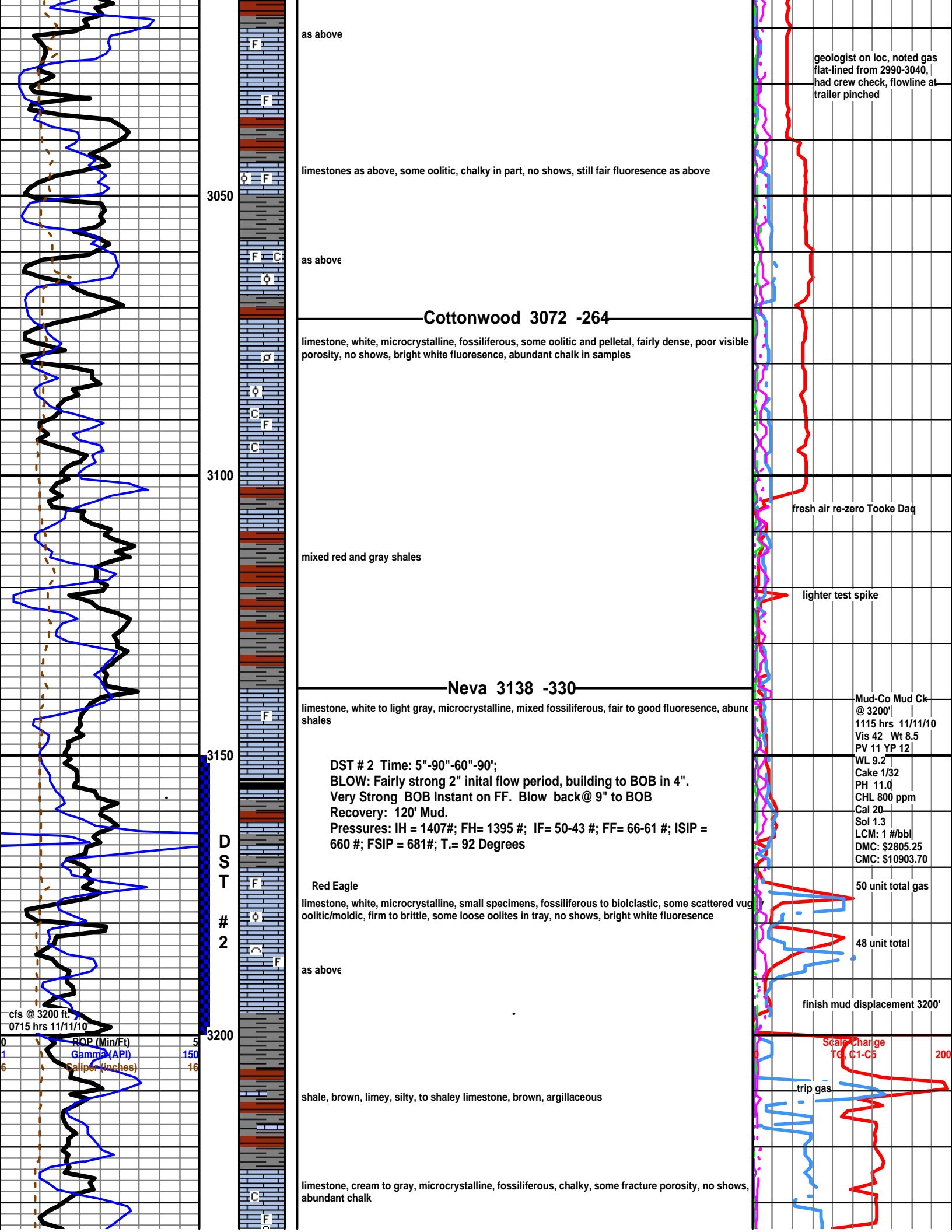
limestone, white to light gray, microcrystalline, some coarser secondary calcite, fossiliferous to grainy, cherty in part, poor visible porosity, no shows, fairly good blue/white mineral fluorescence



kicked in

manual drill time 19-26, depth correction

cfs @ 2838 ft 1650 hrs 11/10/10



geologist on loc, noted gas flat-lined from 2990-3040, had crew check, flowline at trailer pinched

3050

as above

limestones as above, some oolitic, chalky in part, no shows, still fair fluorescence as above

as above

**Cottonwood 3072 -264**

limestone, white, microcrystalline, fossiliferous, some oolitic and pelletal, fairly dense, poor visible porosity, no shows, bright white fluorescence, abundant chalk in samples

3100

mixed red and gray shales

fresh air re-zero Tooke Daq

lighter test spike

**Neva 3138 -330**

limestone, white to light gray, microcrystalline, mixed fossiliferous, fair to good fluorescence, abundant shales

**DST # 2** Time: 5"-90"-60"-90";  
 BLOW: Fairly strong 2" initial flow period, building to BOB in 4".  
 Very Strong BOB Instant on FF. Blow back @ 9" to BOB  
 Recovery: 120' Mud.  
 Pressures: IH = 1407#; FH= 1395 #; IF= 50-43 #; FF= 66-61 #; ISIP = 660 #; FSIP = 681#; T.= 92 Degrees

Mud-Co Mud Ck @ 3200'  
 1115 hrs 11/11/10  
 Vis 42 Wt 8.5  
 PV 11 YP 12  
 WL 9.2  
 Cake 1/32  
 PH 11.0  
 CHL 800 ppm  
 Cal 20  
 Sol 1.3  
 LCM: 1 #/bbl  
 DMC: \$2805.25  
 CMC: \$10903.70

D  
S  
T  
#  
2

Red Eagle

limestone, white, microcrystalline, small specimens, fossiliferous to bioclastic, some scattered vug oolitic/moldic, firm to brittle, some loose oolites in tray, no shows, bright white fluorescence

50 unit total gas  
 48 unit total

as above

finish mud displacement 3200'

cfs @ 3200 ft  
 0715 hrs 11/11/10

0	ROP (Min/Ft)	5
1	Gamma (API)	150
6	Caliper (inches)	16

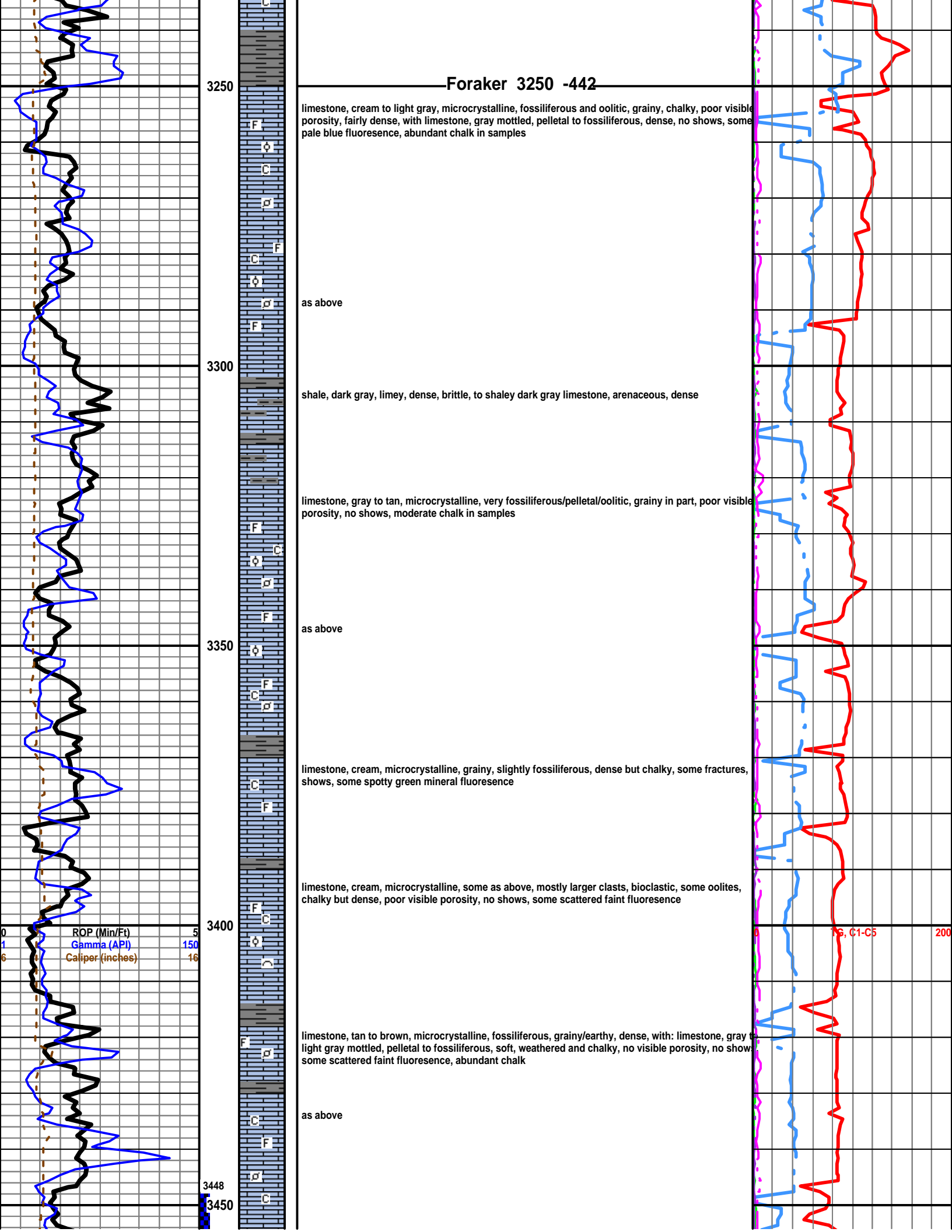
3200

shale, brown, limey, silty, to shaley limestone, brown, argillaceous

trip gas  
 Scale Change TC, C1-C5 200

limestone, cream to gray, microcrystalline, fossiliferous, chalky, some fracture porosity, no shows, abundant chalk

# Foraker 3250 -442



3250

limestone, cream to light gray, microcrystalline, fossiliferous and oolitic, grainy, chalky, poor visible porosity, fairly dense, with limestone, gray mottled, pelletal to fossiliferous, dense, no shows, some pale blue fluorescence, abundant chalk in samples

3300

as above

shale, dark gray, limey, dense, brittle, to shaley dark gray limestone, arenaceous, dense

3350

as above

limestone, gray to tan, microcrystalline, very fossiliferous/pelletal/oolitic, grainy in part, poor visible porosity, no shows, moderate chalk in samples

limestone, cream, microcrystalline, grainy, slightly fossiliferous, dense but chalky, some fractures, shows, some spotty green mineral fluorescence

3400

limestone, cream, microcrystalline, some as above, mostly larger clasts, bioclastic, some oolites, chalky but dense, poor visible porosity, no shows, some scattered faint fluorescence

3448

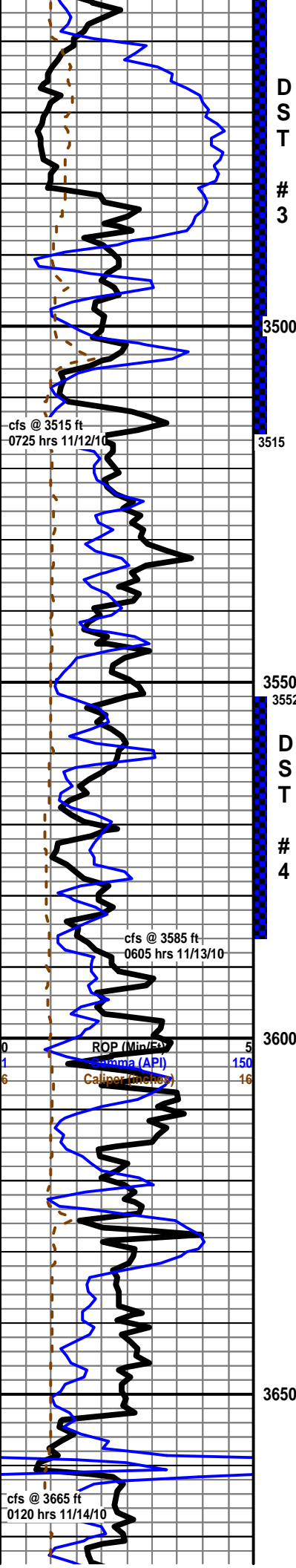
3450

as above

limestone, tan to brown, microcrystalline, fossiliferous, grainy/earthy, dense, with: limestone, gray to light gray mottled, pelletal to fossiliferous, soft, weathered and chalky, no visible porosity, no shows, some scattered faint fluorescence, abundant chalk

ROP (Min/Ft) 5  
Gamma (API) 150  
Caliper (inches) 16

8, C1-C5 200



soft mushy gray and green shales

DST # 3 Time: 5"-90"-91"-120';  
 BLOW: Fairly strong 2" building to BOB in 1". GTS/9" during FF.  
 Recovery: 155' Mud. Pressures: IH = 1407#; FH= 1395 #; IF= 50-43#; FF= 66-61 #; ISIP = 660 #; FSIP = 681 #; T.= 99 Degrees - Gas FF Flow Rates @ 10"= 21 Mcf @ 20"= 28 Mcf @ 30"= 33 Mcf @ 40"= 37 Mcf @ 50"= 67 Mcf @ 60"= 60 Mcf @ 70"= 62 Mcf @ 80"= 67 Mcf @ 90"= 70 Mcf

**Stotler 3481 -673**

limestones, mixed white to gray mottled and cream, micro to cryptocrystalline, fossiliferous, with some oolitic, some chalky/earthy, poor overall visible porosity, no show, good scattered fluorescence

limestone, white to cream, crypto-microcrystalline, fossiliferous, some oolitic, fairly dense, grainy, poor visible porosity, trace glauconite, no odor, no shows noted, bright green/white fluorescence

limestone, mixed gray to cream, fossiliferous to oolitic, with dark gray, dense, cherty fossiliferous, shows, mixed gray shales

as above, some dense pale green arenaceous limestone in 3580 sample

**Tarkio 3556 -748**

limestone, gray to cream, microcrystalline, fossiliferous, arenaceous/grainy, some chalky, poor visible porosity, good even green mineral fluorescence, no cut fluorescence, with: chert, light gray to cream, fossiliferous in part, mostly fresh and sharp, some scattered tripolitic edges, no shows, scattered faint green fluorescence, moderate chalk in samples

DST # 4 Time: 5"-90"-90-120'; BLOW: Strong 6" building to BOB in 1".  
 GTS/10" during FF Recovery: 80' Mud. Pressures: IH = 1638#; FH= 1611 #; IF= 47-34#; FF= 47-34 #; ISIP = 959 #; FSIP = 939 #; T.= 100 Degrees. Gas FF Flow Rates @ 10"= 30 Mcf @ 20"= 35 Mcf; @ 30"= 41 Mcf; @ 40"= 60 Mcf; @ 50"= 50 Mcf; @ 60"= 53 Mcf; @ 70"= 55 Mcf; @ 80"= 57 Mcf; @ 90"= 59 Mcf

poor samples, trip trash

limestone, cream, dense fossiliferous, with: brown to tan mottled limestone, chalky, fossiliferous, some gray mottled pelletal, no shows

soft gray and green shales, abundant in samples

limestone, cream to gray, microcrystalline, fossiliferous, mostly dense, cherty in part, trace glauconitic, some brown and gray grainy, chalky limestone

**Bern 3653 -1845**

limestone, cream to light gray, cryptocrystalline, fossiliferous to bioclastic, chalky in part, poor visible porosity, scattered chalk in samples, no shows, no fluorescence

limestones, mixed gray to cream and brown, dense mottled fossiliferous, some pelletal, grainy, poor visible porosity, no shows

strap 0.14 ft long to board

Mud-Co Mud Ck @ 3515'  
 1140 hrs 11/12/10  
 Vis 56 Wt 8.7  
 PV 22 YP 20  
 WL 7.2 |  
 Cake 1/32  
 PH 11.0  
 CHL 1500 ppm  
 Cal 20  
 Sol 2.7  
 LCM: 1 #/bbf  
 DMC: \$859.75  
 CMC: \$11763.45

Mud-Co Mud Ck @ 3585'  
 1135 hrs 11/13/10  
 Vis 49 Wt 8.9  
 PV 17 YP 17  
 WL 7.6 |  
 Cake 1/32  
 PH 9.5 |  
 CHL 2100 ppm  
 Cal 20  
 Sol 4.3  
 LCM: 2 #/bbf  
 DMC: \$1664.95  
 CMC: \$13428.40

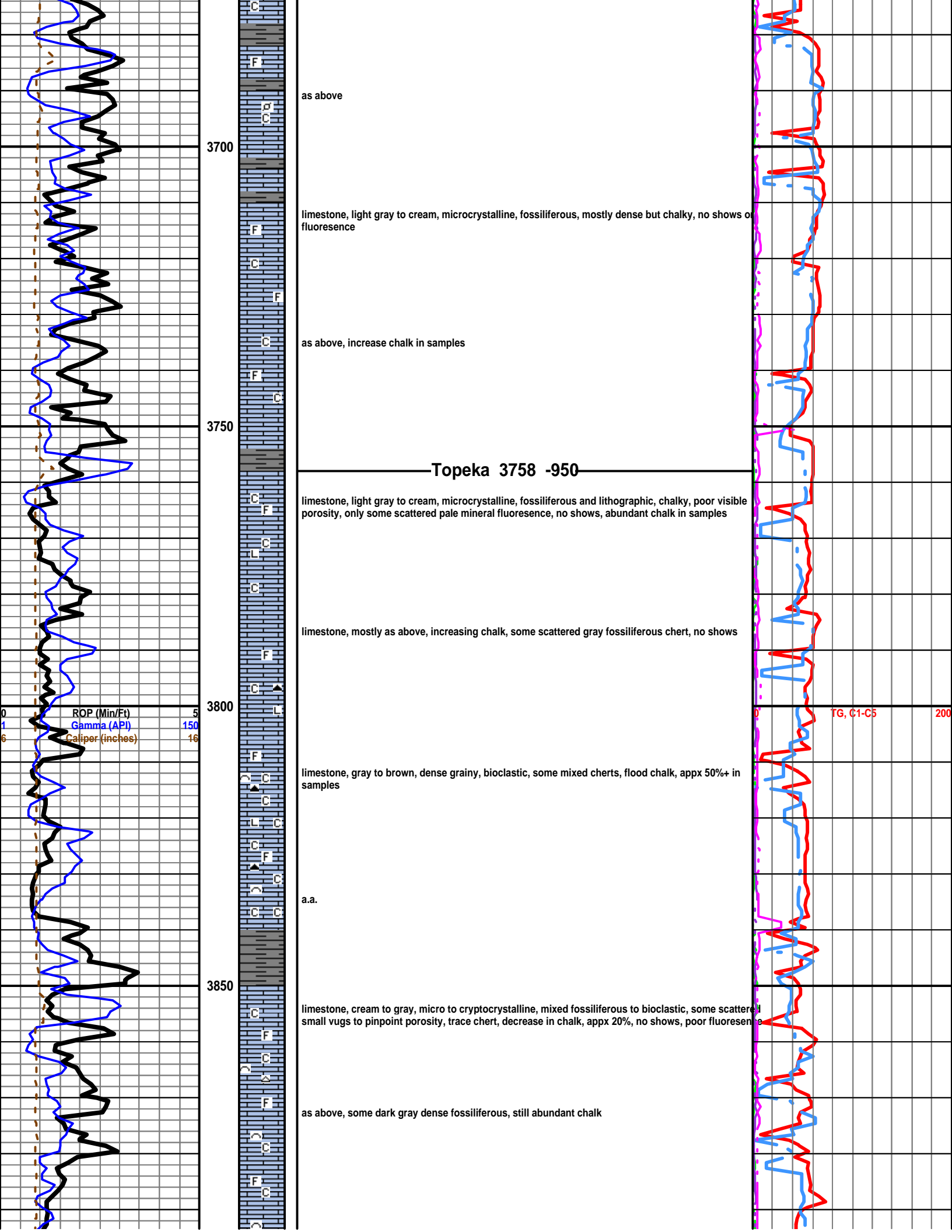
cfs @ 3515 ft  
 0725 hrs 11/12/10

cfs @ 3585 ft  
 0605 hrs 11/13/10

ROP (Min/Ex)  
 Gamma (API)  
 Caliper (inches)

cfs @ 3665 ft  
 0120 hrs 11/14/10





3700

3750

3800

3850

as above

limestone, light gray to cream, microcrystalline, fossiliferous, mostly dense but chalky, no shows of fluorescence

as above, increase chalk in samples

**Topeka 3758 -950**

limestone, light gray to cream, microcrystalline, fossiliferous and lithographic, chalky, poor visible porosity, only some scattered pale mineral fluorescence, no shows, abundant chalk in samples

limestone, mostly as above, increasing chalk, some scattered gray fossiliferous chert, no shows

limestone, gray to brown, dense grainy, bioclastic, some mixed cherts, flood chalk, appx 50%+ in samples

a.a.

limestone, cream to gray, micro to cryptocrystalline, mixed fossiliferous to bioclastic, some scattered small vugs to pinpoint porosity, trace chert, decrease in chalk, appx 20%, no shows, poor fluorescence

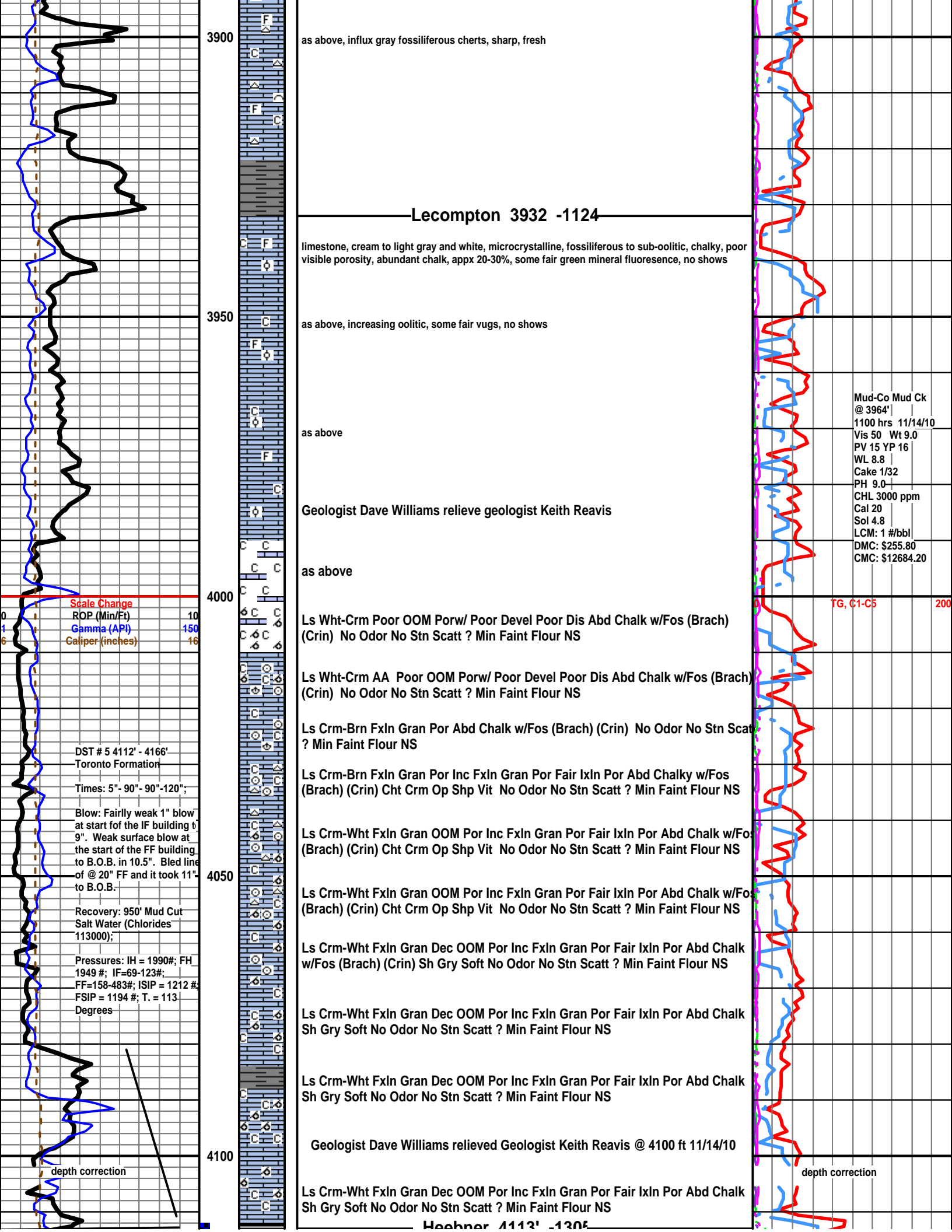
as above, some dark gray dense fossiliferous, still abundant chalk

ROP (Min/Ft)  
Gamma (API)  
Caliper (inches)

5  
150  
16

TG, C1-C5

200



3900

as above, influx gray fossiliferous cherts, sharp, fresh

**Lecompton 3932 -1124**

3950

as above, increasing oolitic, some fair vugs, no shows

as above

Geologist Dave Williams relieve geologist Keith Reavis

4000

Ls Wht-Crm Poor OOM Porw/ Poor Devel Poor Dis Abd Chalk w/Fos (Brach) (Crin) No Odor No Stn Scatt ? Min Faint Flour NS

Ls Wht-Crm AA Poor OOM Porw/ Poor Devel Poor Dis Abd Chalk w/Fos (Brach) (Crin) No Odor No Stn Scatt ? Min Faint Flour NS

Ls Crm-Brn FxIn Gran Por Abd Chalk w/Fos (Brach) (Crin) No Odor No Stn Scatt ? Min Faint Flour NS

Ls Crm-Brn FxIn Gran Por Inc FxIn Gran Por Fair IxIn Por Abd Chalky w/Fos (Brach) (Crin) Cht Crm Op Shp Vit No Odor No Stn Scatt ? Min Faint Flour NS

Ls Crm-Wht FxIn Gran OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk w/Fos (Brach) (Crin) Cht Crm Op Shp Vit No Odor No Stn Scatt ? Min Faint Flour NS

4050

Ls Crm-Wht FxIn Gran OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk w/Fos (Brach) (Crin) Cht Crm Op Shp Vit No Odor No Stn Scatt ? Min Faint Flour NS

Ls Crm-Wht FxIn Gran Dec OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk w/Fos (Brach) (Crin) Sh Gry Soft No Odor No Stn Scatt ? Min Faint Flour NS

Ls Crm-Wht FxIn Gran Dec OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk Sh Gry Soft No Odor No Stn Scatt ? Min Faint Flour NS

4100

Geologist Dave Williams relieved Geologist Keith Reavis @ 4100 ft 11/14/10

Ls Crm-Wht FxIn Gran Dec OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk Sh Gry Soft No Odor No Stn Scatt ? Min Faint Flour NS

Scale Change  
 ROP (Min/Ft) 10  
 Gamma (API) 150  
 Caliper (inches) 16

DST # 5 4112' - 4166'  
 Toronto Formation  
 Times: 5"- 90"- 90"-120";

Blow: Fairly weak 1" blow at start for the IF building to 9". Weak surface blow at the start of the FF building to B.O.B. in 10.5". Bled line of @ 20" FF and it took 11" to B.O.B.

Recovery: 950' Mud Cut Salt Water (Chlorides 113000);

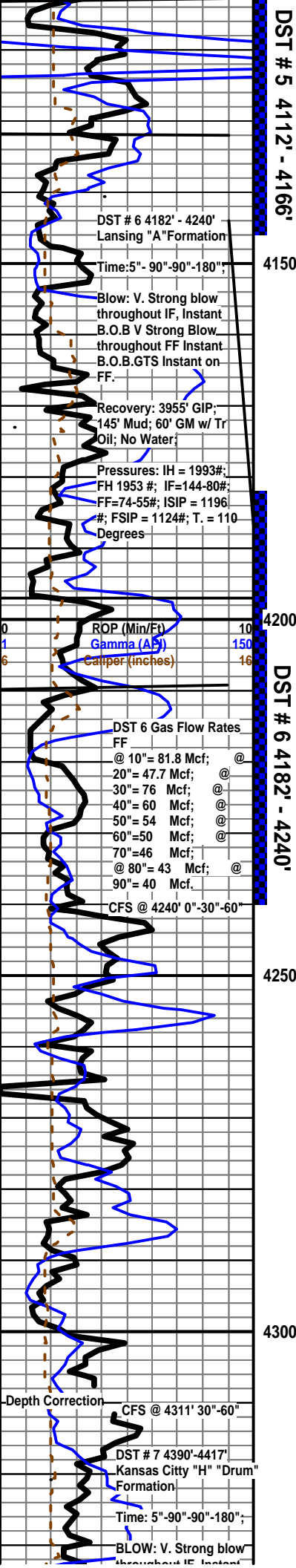
Pressures: IH = 1990#; FH 1949 #; IF=69-123#; FF=158-483#; ISIP = 1212 #; FSIP = 1194 #; T. = 113 Degrees

Mud-Co Mud Ck @ 3964'  
 1100 hrs 11/14/10  
 Vis 50 Wt 9.0  
 PV 15 YP 16  
 WL 8.8  
 Cake 1/32  
 PH 9.0  
 CHL 3000 ppm  
 Cal 20  
 Sol 4.8  
 LCM: 1 #/bbl  
 DMC: \$255.80  
 CMC: \$12684.20

TG, C1-C5 200

depth correction

depth correction



Sh Bk Carb Ls AA No Odor No Stn No Flour NS

Ls Crm-Wht FxIn Gran Dec OOM Por Inc FxIn Gran Por Fair IxIn Por Abd Chalk Fos (Bry) Sh Bk Carb AA Grad Gry Soft No Odor No Stn Scatt ? Min Faint Flour NS

**Toronto 4132' (- 1324)**

Ls Wht -Crm FxIn-VFxFIn Tr. V MicroXIn Grad Poor Vis Por Tr Chalky Sh Bk Carb Fissil AA Fair Flour Lt Grn No Odor No Show

Ls Wht -Crm FxIn-VFxFIn Tr. V MicroXIn Grad Poor Vis Por Tr Chalky Tr Sh Bk Fissil AA Grad Gry Fair Flour Lt Grn No Odor No Show

30" CFS Ls Wht -Crm FxIn-VFxFIn Tr. V MicroXIn Por Grad PoorVis Por Tr Chalky Fos (Pelec) Tr Pry Mass Sh Dec Bk Fissil Inc Gry Tr Pry Fair Flour Lt Grn No Odor No Show

60" CFS Ls Wht -Crm FxIn-VFxFIn Tr. V MicroXIn Por w/Tr Pin-Pt Gran Por Grad PoorVis Por Tr Chalky Fos (Pelec) Pry mass Sh Dec Bk Fissil Inc Gry Tr Pry Fair Flour Lt Grn No Odor No Show  
CFS @ 4166' 30" - 60"

Ls AA Crm-Brn FxIn Poor IxIn Por Sh Char Gry Fissil Abd No Odor Chalky No Flour NS

Ls AA Crm-Brn FxIn Poor IxIn Por Sh Char Gry Fissil Abd No Odor Chalky No Flour NS

Ls AA Crm-Brn FxIn to Tr OOM Por Poor Dis Poor Devel Sh Gry Abd No Odor Chalky No Flour NS

**IATAN 4197' (- 1389)**

Ls Crm-Brn FxIn Tr Poor Vug Por Poor Dis Tr Fos (Fussil)(Pelec) w/Pyr Inclus) S Tr Flour Lt Grn ? V Faint Odor ? Stn (Dead) Sh Gry Soft ? Sli-NS

**LANSING 4210' (-1402)**

Ls Wht FxIn w/ Pin-Pt Good IxIn Por Grad VFxFIn Soft Gran Por w/ Abd Good Show Gas (Few Pcs) Abd Lt Grn Flour Sli-Faint Odor Gas Doesn't App To Flour NSO

30" CFS Ls Crm VFxFIn Poor IxIn PorTr. Fos (Fussil) Sli Dec Flour Lt Grn Dec V Faint Odor Chalky Cht Wht Shp Op Vit NS

60" CFS Ls Wht-Crm VFxFIn Pin-Pt IxIn Por Grad Granular MicroXIn Por W/ Fair Show Gas Fair Flour Lt Grn w/ Some Sat Stn Chalk ? V Faint Odor V Sli Show Gas

Ls Crm Poor IxIn Por FxIn Por Poor IxIn Por Abd Chalk No Odor No Stn NS

Ls AA Crm Wht FxIn Por Poor IxIn Por Abd Chalk No Odor No Stn NS

Ls AA Crm Wht FxIn Por Poor IxIn Por Abd Chalk NS

Ls Crm FxIn Dns Th Ls AA Sli tr Flour Chalky Sh Gry Soft No Odor NS

Ls Crm- Wht FxIn Por Poor IxIn Por Abd Chalk No Odor No Stn Tr Sli Flou in Chalk NS

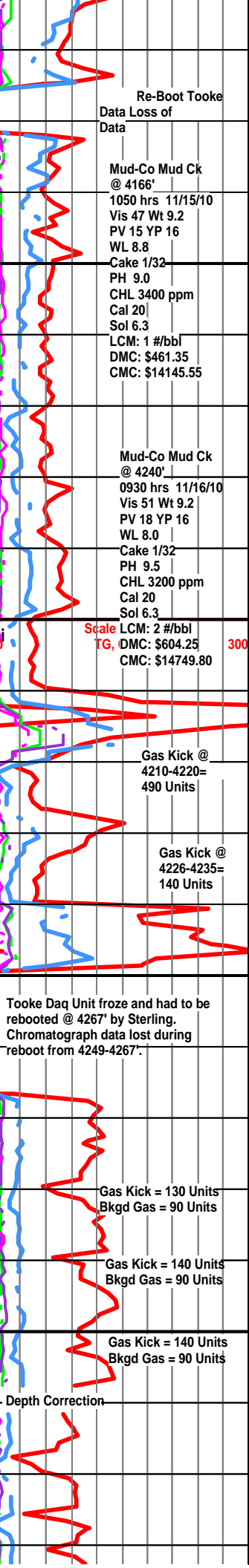
CFS 30" Ls Wht FxIn MicroXIn Por w/Tr OOM Por Poor Dis Poor Devel Fos Abd Sli Flour (Lt Grn) Faint Odor NSG NSO

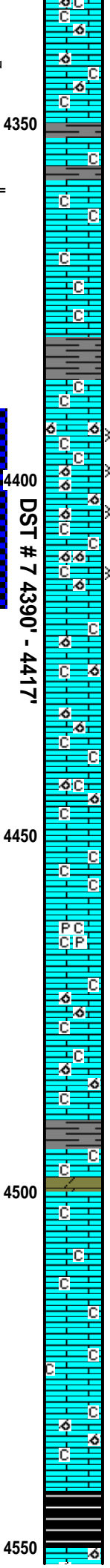
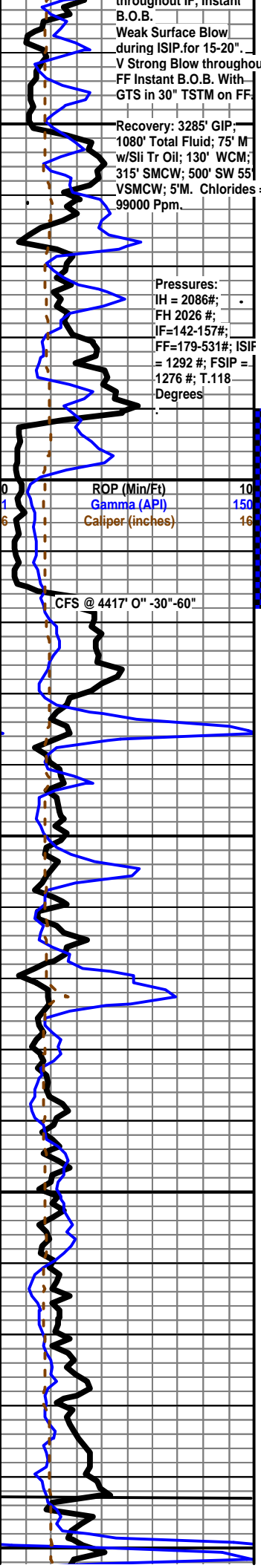
CFS 60" Ls Ls Wht FxIn MicroXIn w/Tr OOM Por Inc Poor InterOOM Por Dis Poor Devel Fos Abd Pyr Mass Sli Flour (Lt Grn) Faint Odor NSG NS

Ls Crm FxIn Dns Micrite Grat Fair OOM Por Poor Vug Leaching Dis Poor Devel No Apparent Inter OOM Por Abd Chalky V Sli Tr of Scatt Stn (Lt Grn) On Edges Few Pcs. Barren No Odor Tr Flour No Show

Ls Crm Fair OOM Por Fair Vug Leaching Dis Poor Devel No Apparent Inter OOM Por Abd Chalky V Sli Tr of Scatt Stn (Lt Grn) On Edges Few Pcs. Barren No Odor Tr Flour No Show

Ls Crm Good OOM Por Fair Good Vug Leaching Dis Poor Develop No Apparent





Inter OOM Por Abd Chalky V Sli Tr of Scatt Stn (lt Grn) On Edges Few Pcs. Barren No Odor No Flour No Show

Ls Crm Good OOM Por Good Vug Leaching Dis Poor Few OOI in PI No Apparent Inter OOM Por Chalky V Sli Tr of Scatt Stn (lt Grn) on edges of 3 Pcs. Barren No Odor No Flour No Show

Ls Crm Dns Fxln Micrite Poor lxn to no Vis Por Chalky AA Tr OOM Por AA No Odor No Stn Tr Flour Scatt NS

Ls Crm Dns Fxln Micrite Poor lxn to no Vis Por Chalky AA Tr OOM Por AA No Odor No Stn Tr Flour Scatt NS

Ls Crm Dns Fxln Micrite Poor lxn to no Vis Por Chalky AA Tr OOM Por AA No Odor No Stn Tr Flour Scatt NS

Ls Crm Dns Fxln Micrite Poor lxn to no Vis Por Chalky AA Tr OOM Por AA No Odor No Stn Tr Flour Scatt NS

0" CFS Ls Wht-Crm Lg OOM Por w/ Good Dis of OOL Tr Few Pcs OOI In PI Deep Vug Dis Good Leaching Por Sli Odor Tr Scattered Stn Flour (Lt Gn) Few Pcs NSFO

30" CFS Ls Wht-Crm Lg OOM Por w/ Good Dis of OOL Tr Few Pcs OOI In PI Deep Vug Dis Good Leaching Por Good-Strong Odor Good Scattered Stn Flour (Lt Grn) Fair-Good Show Gas in OOMolds Good SG When Broken Soft Fair-Good SG NSFO

60" CFS Ls Wht Med- Lg OOM Por w/ Good Dis of OOL Tr Few Pcs OOI In PI Deep Vug Dis Good Leaching Por Good-Strong Odor Good Scattered Stn Flour (Lt Grn) Fair-Good Show Gas in OOMolds Good SG When Broken Soft Fair-Good SG NSFO

Ls Crm-Wht Fxln Dns Micrite VFxln Gran Pin-Pt Por w/Tr. OOM Por AA Sli Odor AA Tr Sli Flour (Few Pcs) Sh Gry Soft Fos (Spic) Tr. Chalky No Vis Show

Ls Crm-Wht Fxln Dns Micrite VFxln Gran Pin-Pt Por w/ Dec Tr. OOM Por AA Sli Dec Odor AA No Flour Sh Blk Carb Fissil -Gry Soft Tr/Chalky NS

Ls Crm-Wht Fxln Dns Micrite VFxln Gran Pin-Pt Por w/ Dec Tr. OOM Por AA No Odor No Flour Abd Chalk Tr. Sh Blk Carb Fissil No Stn NS

Ls Crm-Wht Fxln Dns Micrite VFxln Gran Pin-Pt Por No Odor No Flour V Abd Chalk Tr Cht Wht Inclu in Ls Tr. Sh Blk Carb Fissil (1 Pc) No Stn NS

Ls Crm-Wht Fxln Dns Micrite VFxln Gran Pin-Pt Por No Odor Tr Scatt Flour (Lt Grn-V Few PCS) V Abd Chalk Tr Pyr Inclus in Ls Tr Sh Blk Carb Fissil No Stn NS

Ls Crm Fxkn Dns Micrite Chalky Tr Poor OOM Por Barren Abd Chalk No Odor Few Pcs Scatt Flour in Chalk Sli Odor No Stn NS

Ls Crm Fxkn AA Dns Micrite Chalky Tr Poor OOM Por Barren Abd Chalk No Odor Few Pcs Scatt Flour in Chalk Sli Odor No Stn NS

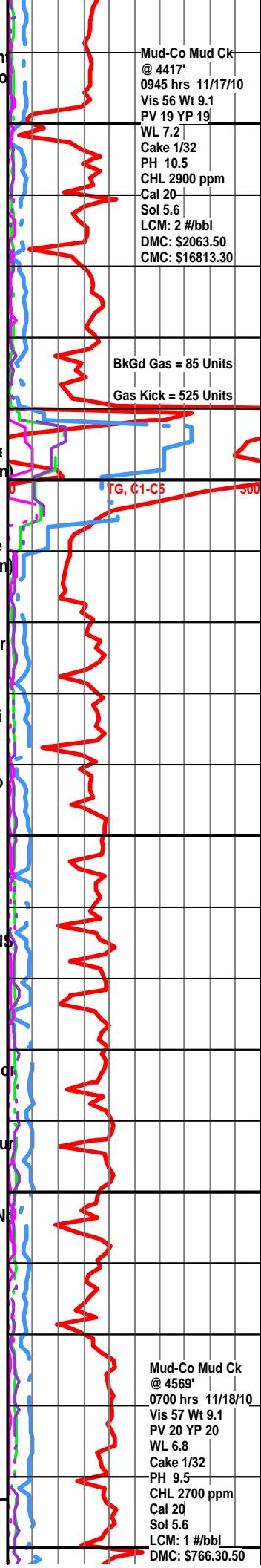
Ls Crm Fxkn Dns Micrite Chalky Barren Abd Chalk No Odor Few Pcs Scatt Flour in Chalk Sli Odor No Stn NS

Ls Crm Fxkn Dns Micrite Tr Fos (Crin) Cht Wht Op Vit Shp Abd Chalk Barren No Odor No Flour No Stn NS

Ls Crm Fxkn Dns Micrite Tr Fos (Crin) Cht Wht Op Vit Shp Chalky Barren No Odor No Flour No Stn NS

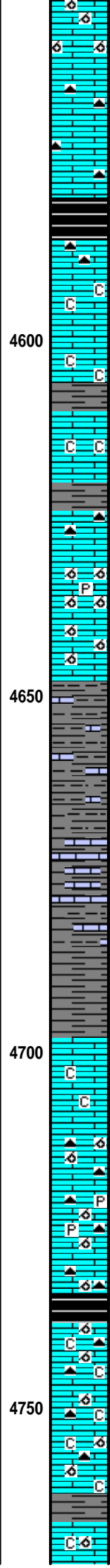
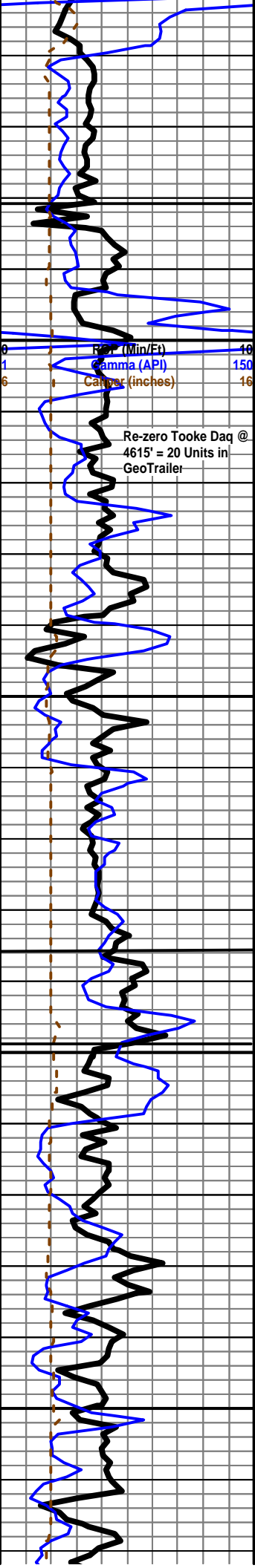
Ls Crm Fxkn Dns Micrite Tr Fos (Crin) Cht Wht Op Vit Shp Chalky Barren No Odor No Flour No Stn NS

Ls Crm Fxkn Dns Micrite Tr Fair Pin-Pt Leached Por Chalky Tr Poor OOM Por Barren Fos (Crin) No Odor No Flour No Stn NS

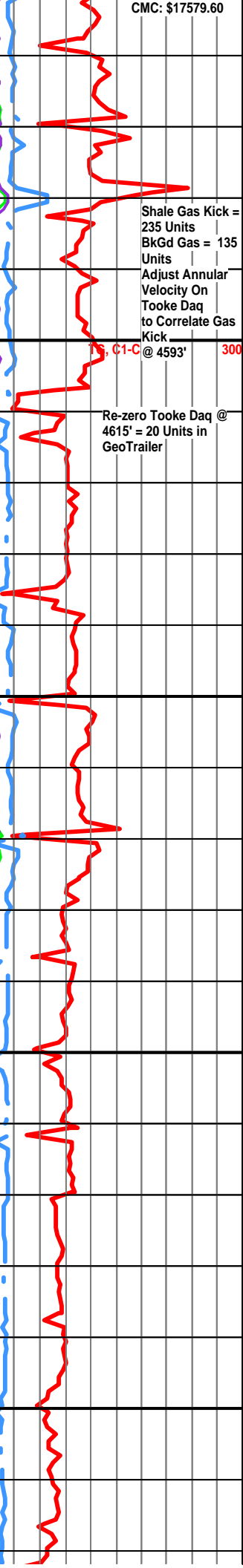


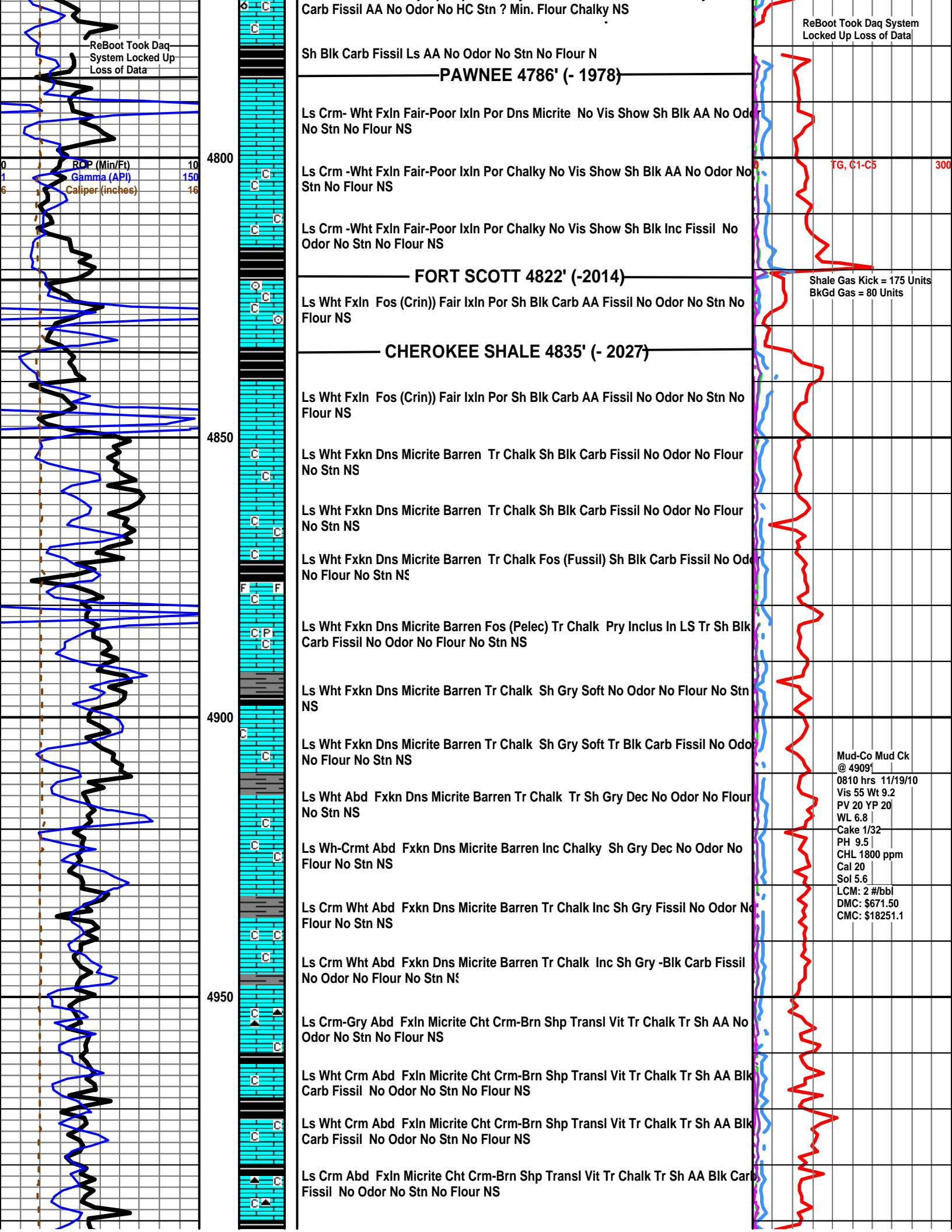
**STARK SHALE 4543' (-1735)**

Sh Blk Carb Fissil Ls Crm Fxln Poor lxn PorTr Poor OOM Por Poor Dis Poor InterOOM Por Fos (Crin) No Flour No Stn No Odor NS



Ls Wht-Crm Fxln Granular-Poor/Fair OOM Por Poor/Fair Inter OOM Granular  
 Pin-Pt Por Barren No Flour Stn No Odor Abd Chalk Sh Blk Carb Fissil AA NS  
  
 Ls Crm-Gry Dns Fxln Micrite No Vis Por Barren Tr Cht Smokey Gry Shp Op Vit  
 Shp Sh Gry-Grn Soft No Odor No Stn No Flour NS  
  
 Ls Crm-Gry Dns Fxln Micrite No Vis Por Barren Tr Cht Smokey Gry Shp Op Vit  
 Shp Sh Gry-Grn Soft No Odor No Stn No Flour NS  
  
**HUSHPUCKNEY 4581'(- 1773)**  
 Sh Blk Carb Fissi -Gry Soft "Gummy" Abd Ls AA Dns Fxln Micrite Tr Cht Gry AA  
 Chalky No Flour No Stn No Odor NS  
 Ls AA Dns Fxln Micrite Tr Cht Gry AA Sh Blk Carb Fissi (Few Pcs) Grad Gry Sof  
 "Gummy" Chalky No Flour No Stn No Odor N  
 Ls AA Dns Fxln Micrite Tr Cht Gry AA Sh Blk Carb Fissi (Few Pcs) Grad Gry Sof  
 "Gummy" Chalky No Flour No Stn No Odor NS  
 Ls Gry-Crm Fxln Dns Micrite Barren Dec ChalkTr Sh Blk Carb AA No Odor No  
 Flour Stn NS  
 Sh Blk Carb Fissil- Gry V ABD Dec Ls AA Fxln Micrite Cht Drk Gry-Blk Op Vit  
 Shp No Odor No Stn No Flour NS  
 Ls Crm-Gry Fxln Micrite Tr w/ OOM Fair Por W/ Tr Fair-Poor Vug Leaching Tr Py  
 Inclus in LS No Flour No Stn No Odor N'  
 Ls Crm-Gry Fxln Micrite Tr w/ OOM Por w/ OOL In PI No Dis Poor Develop Tr Ls  
 Crm Fair OOM Por W Tr Vug Leaching AA No Flour No Stn No Odor NS  
 Sh Char-Gry V Abd Fissil Ls Crm Wht Fxln Dns Dec No Odor No Flour No Stn  
 NS  
 Sh Char-Gry V Abd Fissil Ls Crm Wht Fxln Dns Dec No Odor No Flour No Stn  
 Ls Wht Fxln Dns Micrite Grad Fxln Grad OOM Por Sh Char Gry Fissil AA No Od  
 No HC Stn ? Min. Flour Chalky NS  
 Sh Char-Gry V Abd Fissil Ls Crm Wht Fxln Dns Inc No Odor No Flour No Stn N  
 Sh Char-Gry V Abd Fissil Ls Crm Wht Fxln Dns Inc No Odor No Flour No Stn N  
  
**BASE KANSAS CITY 4686 ( - 1878)**  
 Sh Char-Gry Ls AA No Odor No Stn No Flour NS  
  
**MARMATON 4699 (- 1891)**  
 Ls Wht Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Sh Char Gry Fissil AA No  
 Odor No HC Stn ? Min. Flour Chalky NS  
 Ls Wht Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching Grad  
 OOM Por Cht Drk Gry Op Shp Vit Sh Char Gry Fissil AA No Odor No HC Stn ?  
 Min. Flour Chalky NS  
 Ls Wht Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching Grad  
 OOM Por Cht Drk Gry Op Shp Vit Tr Pry Inclus in Ls Matrix Sh Char Gry Fissil /  
 No Odor No HC Stn ? Min. Flour Chalky N  
 Ls Wht-Crm Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching  
 Grad OOM Por Cht Drk Gry Op Shp Vit Tr Pry Inclus in Ls Matrix Sh Char Gry Blk  
 Carb Fissil AA No Odor No HC Stn ? Min. Flour Chalky NS  
 Ls Crm Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching Grad  
 OOM Por Cht Drk Gry Op Shp Vit Tr Pry Inclus in Ls Matrix Sh Char Gry Fissil /  
 No Odor No HC Stn ? Min. Flour Chalky NS  
 Ls Crm Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching Grad  
 OOM Por Cht Drk Gry Op Shp Vit Tr Pry Inclus in Ls Matrix Sh Char Gry bLK  
 Carb Fissil AA No Odor No HC Stn ? Min. Flour Chalky NS  
 Ls Crm Fxln Dns Micrite Grad Fxln w/ Poor Pin-Pt Por Tr Sli Vug Leaching Grad  
 OOM Por Cht Drk Gry Op Shp Vit Tr Pry Inclus in Ls Matrix Sh Char Gry bL





ReBoot Took Daq System Locked Up Loss of Data

ReBoot Took Daq System Locked Up Loss of Data

Carb Fissil AA No Odor No HC Stn ? Min. Flour Chalky NS

Sh Blk Carb Fissil Ls AA No Odor No Stn No Flour N

**PAWNEE 4786' (- 1978)**

Ls Crm- Wht FxIn Fair-Poor IxIn Por Dns Micrite No Vis Show Sh Blk AA No Odor No Stn No Flour NS

Ls Crm -Wht FxIn Fair-Poor IxIn Por Chalky No Vis Show Sh Blk AA No Odor No Stn No Flour NS

Ls Crm -Wht FxIn Fair-Poor IxIn Por Chalky No Vis Show Sh Blk Inc Fissil No Odor No Stn No Flour NS

**FORT SCOTT 4822' (-2014)**

Ls Wht FxIn Fos (Crim)) Fair IxIn Por Sh Blk Carb AA Fissil No Odor No Stn No Flour NS

**CHEROKEE SHALE 4835' (- 2027)**

Ls Wht FxIn Fos (Crim)) Fair IxIn Por Sh Blk Carb AA Fissil No Odor No Stn No Flour NS

Ls Wht Fxkn Dns Micrite Barren Tr Chalk Sh Blk Carb Fissil No Odor No Flour No Stn NS

Ls Wht Fxkn Dns Micrite Barren Tr Chalk Sh Blk Carb Fissil No Odor No Flour No Stn NS

Ls Wht Fxkn Dns Micrite Barren Tr Chalk Fos (Fussil) Sh Blk Carb Fissil No Odor No Flour No Stn NS

Ls Wht Fxkn Dns Micrite Barren Fos (Pelec) Tr Chalk Pry Includ In LS Tr Sh Blk Carb Fissil No Odor No Flour No Stn NS

Ls Wht Fxkn Dns Micrite Barren Tr Chalk Sh Gry Soft No Odor No Flour No Stn NS

Ls Wht Fxkn Dns Micrite Barren Tr Chalk Sh Gry Soft Tr Blk Carb Fissil No Odor No Flour No Stn NS

Ls Wht Abd Fxkn Dns Micrite Barren Tr Chalk Tr Sh Gry Dec No Odor No Flour No Stn NS

Ls Wh-Crmt Abd Fxkn Dns Micrite Barren Inc Chalky Sh Gry Dec No Odor No Flour No Stn NS

Ls Crm Wht Abd Fxkn Dns Micrite Barren Tr Chalk Inc Sh Gry Fissil No Odor No Flour No Stn NS

Ls Crm Wht Abd Fxkn Dns Micrite Barren Tr Chalk Inc Sh Gry -Blk Carb Fissil No Odor No Flour No Stn NS

Ls Crm-Gry Abd FxIn Micrite Cht Crm-Brn Shp Transl Vit Tr Chalk Tr Sh AA No Odor No Stn No Flour NS

Ls Wht Crm Abd FxIn Micrite Cht Crm-Brn Shp Transl Vit Tr Chalk Tr Sh AA Blk Carb Fissil No Odor No Stn No Flour NS

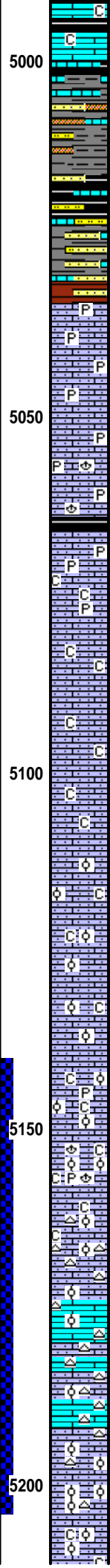
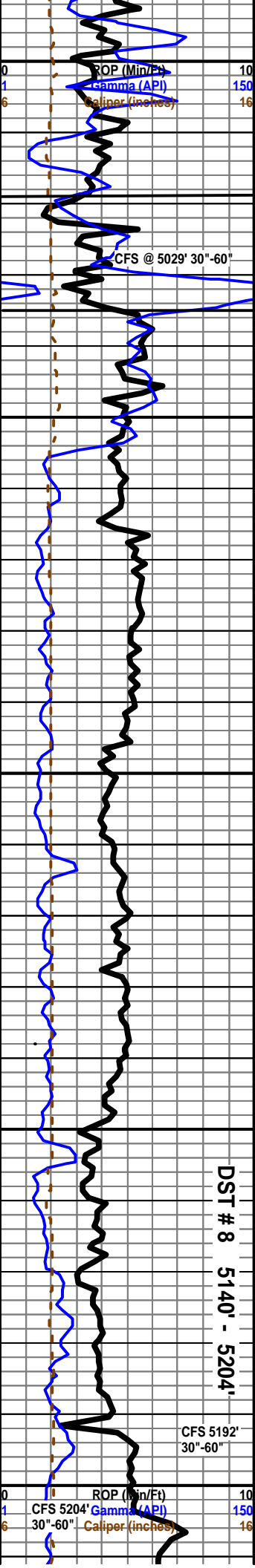
Ls Wht Crm Abd FxIn Micrite Cht Crm-Brn Shp Transl Vit Tr Chalk Tr Sh AA Blk Carb Fissil No Odor No Stn No Flour NS

Ls Crm Abd FxIn Micrite Cht Crm-Brn Shp Transl Vit Tr Chalk Tr Sh AA Blk Carb Fissil No Odor No Stn No Flour NS

TG, C1-C5 300

Shale Gas Kick = 175 Units  
BkGd Gas = 80 Units

Mud-Co Mud Ck @ 4909'  
0810 hrs 11/19/10  
Vis 55 Wt 9.2  
PV 20 YP 20  
WL 6.8  
Cake 1/32  
PH 9.5  
CHL 1800 ppm  
Cal 20  
Sol 5.6  
LCM: 2 #/bbl  
DMC: \$671.50  
CMC: \$18251.1



Ls Crm Abd Fxln Micrite Cht Crm-Brn Shp Transl Vit Tr Chalk Tr Sh AA Blk Car  
 Fissil No Odor No Stn No Flour NS

Sh Blk Carb Fissil -Char Gry Ls AA Tr Qtz Ss Drk Brn VFgrn Fair-Poor Sort Ang  
 Grns/VFgrns w/Pyr Inclus w/ Sli-FairSG Under Heat Faint Odor Sli Pin-Pt Gas  
 Flour

30" CFS Ls Crm Wht Fxln AA Tr Qtz Ss Drk Brn Vfgrn Poor Sorting Abd Sh Blk  
 Carb Fissil

**MORROW 5019' (- 2211)**

60" CFS Sh Blk Carb Fissil ABD Ls AA Barren Tr Qtz Ss Brn AA w/ Poor Sort VSli SG Faint Odor V  
 SG

Sh Char-Gry Fissil Grad Red-Blu "Wash Red" Ls Crm Wht Fxln Micrite Tr Qtz Ss VFgrn Well Sort  
 Poor-Fair Igran Por w/Pyr Inclu Pyr Mass No Odor No Stn No HC Flour NS

**MISSISSIPPIAN STE. GEN 5035' (-2227)**

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Soft w/tr/Pry Inclu (1 pcs Ls  
 "Dead Oil Stn w/Sli Scatt Floru" Sh Blk-Blu (Aqua) Fissil No Odor No Flour No  
 Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Soft Cht Gry Op Shp Vit  
 Sh Blk- Blu (Aqua) Fissil No Odor No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Chalk Fos (Brach) Sh Blk  
 Blu (Aqua) Fissil No Odor No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Chalk Fos (Brach) Sh Blk  
 Carb- Blu (Aqua) Fissil No Odor No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Tr "Dead  
 Gillsonitic Residue" Tr Chalk Sh Blk-Char Carb Fissil No Odor No Flour No Stn  
 No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Chalk Sh Blk- CharFissil  
 No Odor No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Chalk Sh Blk- Char-Blu  
 (Aqua) Fissil No Odor No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Chalk Sh Blk- Char-Blu (Aqua) Fissil No Odo  
 No Flour No Stn No Odor NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn w/ Poor OOL Por No Dis Poor InterOOL PorTr  
 Chalk Sh Blk- Char (Aqua) Fissil No Odor No Flour No Stn NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn w/ Poor OOL Por No Dis Poor InterOOL PorTr  
 Chalk Sh Blk- Char-Blu (Aqua) Fissil No Odor No Flour No Stn NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Poor OOL Por No Dis Poor  
 InterOOL PorTr Chalk Sh Blk- Char Fissil No Odor No Flour No Stn NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Poor OOL Por w/Tr Pry Inclus No  
 Dis Poor InterOOL PorTr Chalk Sh Blk-Char Fissil No Odor No Flour No Stn NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Poor OOL Por w/Tr Pry Inclus No  
 Dis Poor InterOOL PorTr Fos (Brach) Tr Chalk Sh Blk-Char Fissil No Odor No Flour No Stn NS

Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Poor OOL Por w/Tr Pry Inclus No  
 Dis Poor InterOOL Por Inc Cht Wht Op-Transp Vit Sht w/ Pin-Pt Frac Por Tr ? Trip w/ HC "Gillsonitic  
 Resdueln Cht w/ Sli SG" Tr Chalk Sh Blk-Char Fissil Faint Odor No Flour VSli Show

Ls Crm Fxln OOL Por w/OOL in PI Pin-pt InterOOL Por w/ Fair SG/SO Drk Brn FO & SG in Tray (Doze  
 Pcs) Friable Soft w/ Broken Good to Strong Odor Tr Lt Scatt Dull-Bright (Lt Grn) Flour (Few Pcs) Fa  
 SO/SG (Few Pcs)

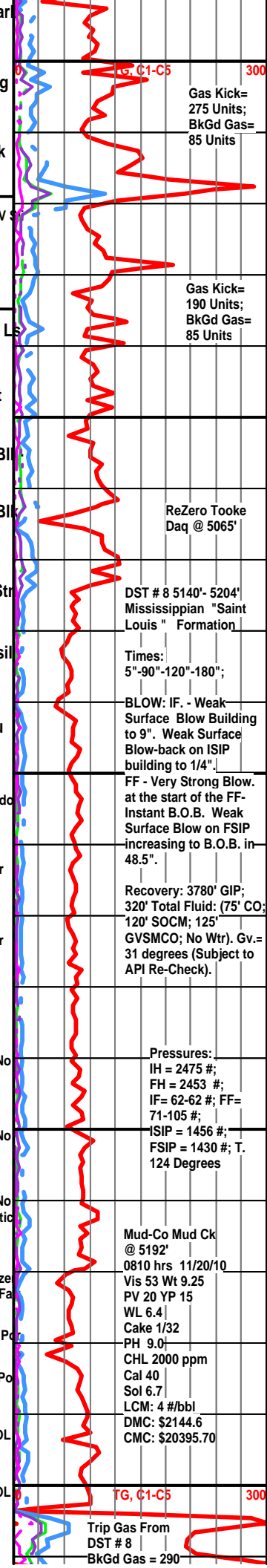
30" CFS Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Poor OOL Por Tr OOL Por  
 AA w/Scatt Stn Flour Fair Odor Cht AA Sli Show

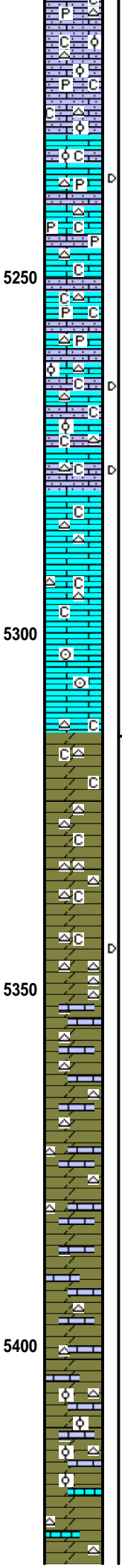
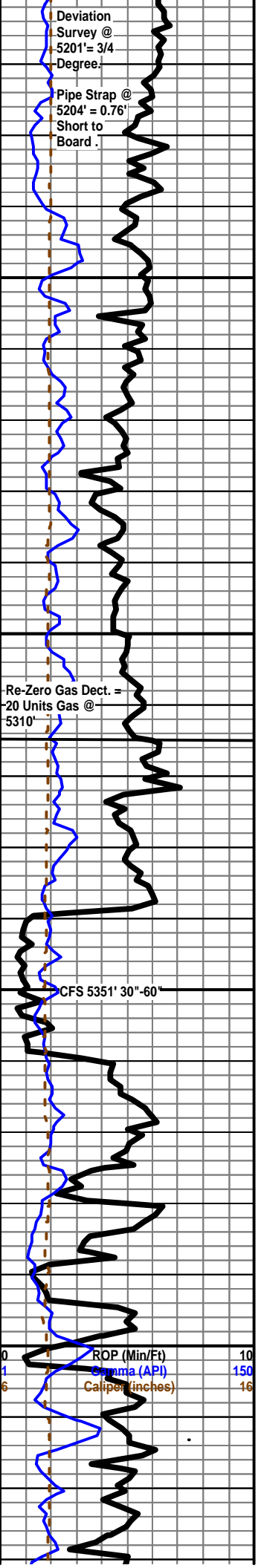
60" CFS Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ 1 Pcs Fair-Good OOL Po  
 Uniform OOL Size w/Scatt Stn Throughout Dull Flour Sli-FairOdor Cht AA Sli SO SG

30" CFS Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Few Pcs Fair-Good OOL  
 Por Uniform OOL Size w/Scatt Stn Throughout Dull Flour Sli-FairOdor Cht AA Sli SO SG

60" CFS Ls Wht Fxln Poor Igran Por "Sandy Gran Por" VFgrn Tr Ls Fxln w/ Few Pcs Fair-Good OOL  
 Por Uniform OOL Size w/Scatt Stn Throughout Dull Flour Sli-FairOdor Cht AA Sli SO SG

Ls Wht Fxln Grad Dns Poor Igran Por in "Sandy Gran Por" Tr OOL Por AA Cl





Wht Op-Trans Op Shp Vit Tr Pyr Inclus in LS Chalk Sh Blk Char-Blu (Aqua) Fissil No Flour No Stn No Odor NS

LS Wht Fxln Grad Dns Poor Igran Por in "Sandy Gran Por" Tr OOL Por AA Cht Wht Op-Trans Op Shp Vit Tr Pyr Inclus in LS Chalk Sh Blk Char-Blu (Aqua) Fissil No Flour No Stn No Odor NS

LS Wht Fxln Grad Dns Micrite Tr Dec Poor Igran Por in "Sandy Gran Por" Inc Mictite w/Poor VFxln Pir w/ Tr "Dead Stn" in Micrite Dec OOL Por AA Cht Wht Op-Trans Op Shp Vit Tr Pyr Mass Chalk Sh Blk Char Fissil No Flour No Stn to Tr "Dead Stm" No Cut" No Odor NS

LS Wht Fxln Grad Inc Dns Micrite Tr Dec Tr Poor Igran Por in "Sandy Gran Por" Inc Mictite w/Poor VFxln Pir w/ Cht Wht Op-Trans Op Shp Vit Tr Pyr Mass Chalk Sh Blk Char Fissil No Flour No Stn No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln w/ Ixln Por Tr Poor Igran Por in "Sandy Gran Por" Cht Wht Op-Trans Op Shp Vit Tr Chalk Sh Blk Char Fissil No Flour Tr Sli Flour (Lt Grn) ? Mineral Tr " Dead Stn (1 pc) " No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln w/ Ixln Por Dec Tr Poor Igran Por in "Sandy Gran Por" Tr OOL VFGRN Poor Por Cht Wht Op-Trans Op Shp Vit Tr Chalk Sh Blk Char Fissil No Flour Tr Sli Flour (Lt Grn) ? Mineral Tr " Dead Stn (1 pc) " No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln Cht Wht Op-Trans Op Shp Vit Tr Chalk Sh Blk Char Fissil No Flour No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln Cht Wht Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln Cht Wht-Red-Brn Op-Trans Op Shp Vit Fos (Crin) Tr Sh Blk Char Fissil No Flour No Odor NS

LS Wht Fxln Dns Micrite Mostly VFxln Cht Wht-Gry Op-Trans Op Shp Vit Chalk Tr Sh Blk Char Fissil No Flour No Odor NS

**SPERGEN 5315' (-2507)**

Dolo Wht Fxln Mostly VFxln Cht Wht-Gry Op-Trans Op Shp Vit Chalk Tr Sh Blk Char Fissil No Flour No Odor NS

30" CFS Dolo Wht-Crm Fxln Mostly VFxln Grad Poor OOL Por Poor InterOOL Por Barren Cht Wht-Gry Op-Trans Op Shp Vit Chalk Tr Sh Blk Char Fissil No Flour No Odor NS

60" CFS Dolo Wht-Crm Fxln w/ Tr Fair Ixln Por Tr "Dead Stn" Grad Poor OOL Por w/ InterOOL Poor Por Barren Cht Wht Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm Fxln w/ Tr Fair Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry w/ Tr "Drk Banded Lines " Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm AA Fxln w/ Tr Fair Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry w/ Tr "Drk Banded Lines " Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm AA Fxln w/ Tr Fair Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry w/ Tr "Drk Banded Lines " Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

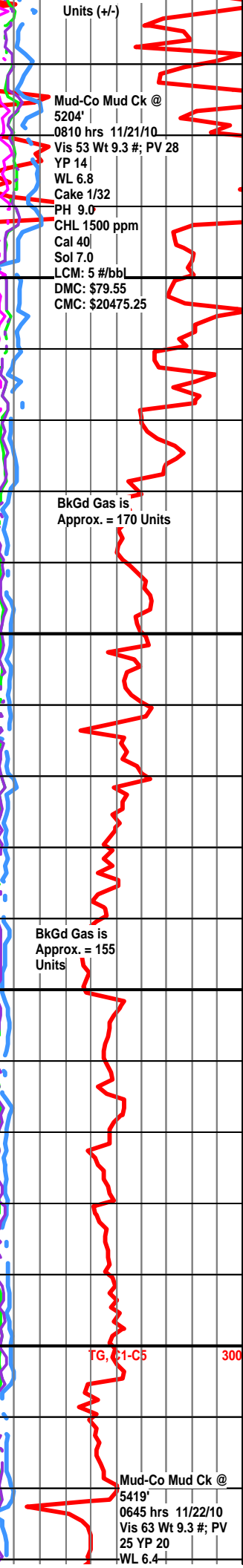
Dolo Wht-Crm AA Fxln w/ Tr Fair Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry w/ Tr "Drk Banded Lines " Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm AA Fxln w/ Tr Fair Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

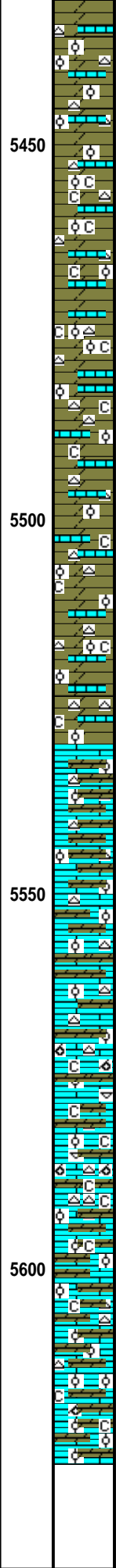
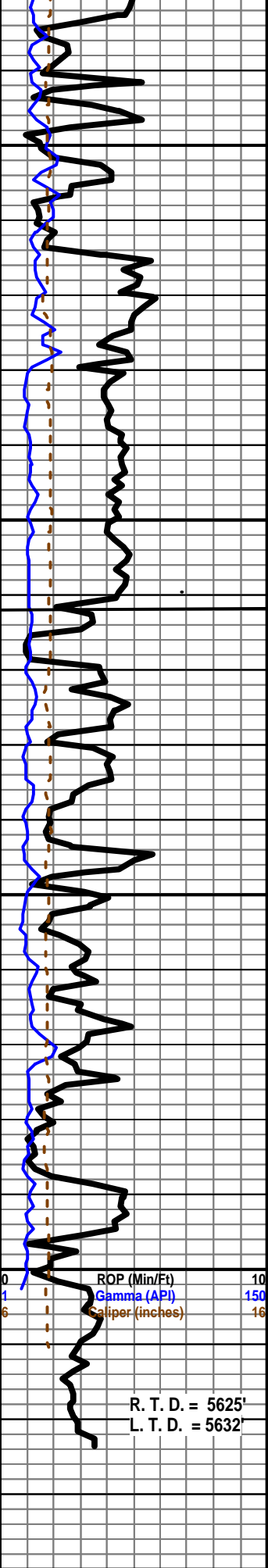
Dolo Wht-Crm AA Fxln w/ Tr Fair Ixln Por Tr Poor OOL Por Barren Dns Tr LS AA Poor Por Barren Cht Wht-Gry Op-Trans Op Shp Vit Abd Chalk Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm AA Fxln w/ Tr Poor Ixln Por Tr Poor OOL Por Barren Dns Tr LS AA Poor Por Barren Cht Wht-Gry w/ Tr "Drk Banded Lines " Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Poor Ixln Por Tr LS AA Poor Por Barren Cht Wht-Gry Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour No Odor NS







Dolo Wht-Crm-Tan AA Fxln w/ Tr Poor Ixln Por Tr Poor OOL Por Poor Dis Barren  
 Dns Tr Ls AA Cht Wht-Gry Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No Flour  
 No Odor NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Poor Ixln Por Tr Poor OOL Por Poor Dis Barren  
 Dns Dec Tr Ls AA Inc Cht Wht-Gry Op-Trans Op Shp Vit Tr Sh Blk Char Fissil No  
 Flour No Odor NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Fair OOL Por Fair Dis Barren  
 Dec Tr Ls AA Inc Abd Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk Char  
 Grn Fissil No Flour No Odor NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Fair OOL Por Fair. Dis Barren  
 Dec Tr Ls AA VAbd Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk Char Grn  
 Fissil No Flour No Odor NS

Dolo Wht-Crm-Tan AA Fxln Grad Dns Micrite Poor Ixln Por Tr Dec OOL Por Poor  
 Dis Barren Dec Tr Ls AA Dec Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk  
 Char Grn Fissil No Flour No Odor No Stn NS

Dolo Wht-Crm-Tan AA Fxln Grad Dns Micrite Poor Ixln Por VSli Tr Dec OOL Por  
 Poor rDis Barren Dec Tr Ls AA Dec Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk S  
 Blk Char Fissil No Flour No Odor No Stn NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Fair OOL Por Fair Dis Barren  
 Dec Tr Ls AA Inc Abd Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk Char  
 Grn Fissil No Flour No Odor No Stn NS

Dolo Wht-Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Fair OOL Por Fair Dis Barren  
 Dec Tr Ls AA Inc Abd Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk Char  
 Grn Fissil No Flour No Odor No Stn NS

**WARSAW 5512' (-2704)**

Dolo/Ls Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Poor OOL Por Fair Dis Barren Cht Wht-Gry Op-Trans  
 Op Shp Vit Tr Chalk Sh Blk Char Fissil No Flour No Odor No Stn NS

Dolo/Ls Crm-Tan AA Fxln w/ Tr Fair Ixln Por Tr Poor OOL Por Fair Dis Barren  
 Cht Wht-Gry Op-Trans Op Shp Vit Tr Chalk Sh Blk Char Fissil No Flour No Odor  
 No Stn NS

Dolo/Ls Wht Fxln Fair Ixln Por Tr OOL Por w/Poor/Fair InterOOL Por Barren Cht  
 Wht Op Shp Vit Tr Sh Char Fissil No Odor No Stn No Flour NS

Dolo/Ls Wht Fxln Fair Ixln Por Tr OOL Por w/Poor/Fair InterOOL Por Barren Cht  
 Wht Op Shp Vit Tr Sh Char Fissil No Odor No Stn No Flour NS

Dolo/Ls Wht Fxln Fair Ixln Por Tr OOL Por w/Poor/Fair InterOOL Por Barren Cht  
 Wht Op Shp Vit Tr Sh Aqua Fissil No Odor No Stn No Flour NS

Dolo/Ls Wht Fxln Fair Ixln Por Tr OOL Por w/Poor/Fair InterOOL Por Barren Cht  
 Wht Op Shp Vit Fissil No Odor No Stn No Flour NS

Dolo/Ls Wht Gry Fxln Grad Fair-Good OOL to OOM Por Fair to Good Dis Fair  
 Devel Tr. Leaching Por Barren Fos (Pelec) Chalk Cht AA Sh AA No Flour No Stn  
 No Odor NS

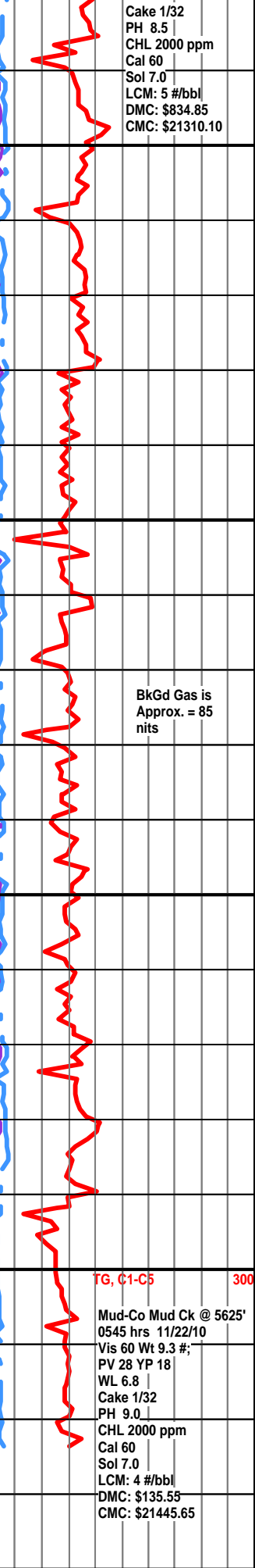
Dolo/Ls Wht Gry Fxln Grad Fair-Good OOL to OOM Por Fair to Good Dis Fair  
 Devel Tr. Leaching Por Barren Fos (Pelec) Chalk Cht AA Sh AA No Flour No Stn  
 No Odor NS

Dolo/Ls Wht Gry Fxln Grad Fair-Good OOL Fair to Good Dis Fair Devel Tr.  
 Leaching Por Barren Chalk Cht AA Sh AA No Flour No Stn No Odor NS

Dolo/Ls Wht Gry Fxln Grad Fair-Good OOL Fair to Good Dis Fair Devel Tr.  
 Leaching Por Barren Chalk Cht AA Sh AA No Flour No Stn No Odor NS

Dolo/Ls Wht Gry Fxln Grad Fair-Good OOL Good Dis Good Devel Tr. Leaching  
 Por Barren Chalk Cht AA Sh AA No Flour No Stn No Odor NS

Dolo/Ls Wht Gry Fxln Grad-Good OOL Por Good Dis Good Devel Good Leaching Por Barren Tr Pyr  
 Inclus Chalk Cht AA Sh AA No Flour No Stn No Odor NS



Cake 1/32  
 PH 8.5  
 CHL 2000 ppm  
 Cal 60  
 Sol 7.0  
 LCM: 5 #/bbl  
 DMC: \$834.85  
 CMC: \$21310.10

BkGd Gas is  
 Approx. = 85  
 nits

TG, C1-C5 300

Mud-Co Mud Ck @ 5625'  
 0545 hrs 11/22/10  
 Vis 60 Wt 9.3 #,  
 PV 28 YP 18  
 WL 6.8  
 Cake 1/32  
 PH 9.0  
 CHL 2000 ppm  
 Cal 60  
 Sol 7.0  
 LCM: 4 #/bbl  
 DMC: \$135.55  
 CMC: \$21445.65

R. T. D. = 5625'  
 L. T. D. = 5632'

ROP (Min/Ft) 10  
 Gamma (API) 150  
 Caliper (inches) 16