



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1059981

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

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

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

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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	JOHN KOEHN 1-18(SE)
Doc ID	1059981

All Electric Logs Run

DIL
CNL/CDL
MEL
BHCS

Form	ACO1 - Well Completion
Operator	Falcon Exploration, Inc.
Well Name	JOHN KOEHN 1-18(SE)
Doc ID	1059981

Tops

Name	Top	Datum
STOTLER	3522	-710
TARKIO	3598	-786
HEEBNER	4153	-1341
LANSING	4245	-1433
STARK	4587	-1775
BKC	4676	-1864
PAWNEE	4838	-2026
MORROW SH	5062	-2250
MISS ST GEN	5105	-2293
ST LOUIS	5186	-2374
WARSAW	5568	-2756

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 21, 2011

CYNTHIA WOLF
Falcon Exploration, Inc.
125 N MARKET STE 1252
WICHITA, KS 67202-1719

Re: ACO1
API 15-069-20341-00-00
JOHN KOEHN 1-18(SE)
SE/4 Sec.18-28S-29W
Gray County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
CYNTHIA WOLF

ALLIED CEMENTING CO., LLC. 30916

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Liberal KS

DATE <u>4-07-11</u>	SEC. <u>18</u>	TWP. <u>28S</u>	RANGE <u>29W</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>1:30 PM</u>
LEASE <u>John Koehn SE</u>		WELL# <u>1-18</u>	LOCATION <u>Vec Copeland KS</u>			COUNTY <u>Osage</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Sterling

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>1877</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>1877.26</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42.24</u>
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT <u>116.8</u>	

OWNER

CEMENT

AMOUNT ORDERED 675 SK 65135/674
3% CC V4 # Flo Seal
150 SK Class A 3% CC 2% gel

COMMON	<u>150</u>	@	<u>16.25</u>	<u>2437.50</u>
POZMLX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>27</u>	@	<u>58.20</u>	<u>1571.40</u>
ASC		@		
Liteweight	<u>675</u>	@	<u>15.00</u>	<u>10125.00</u>
Flo Seal	<u>169</u>	@	<u>2.70</u>	<u>456.30</u>
Suger	<u>125</u>	@	<u>1.27</u>	<u>158.75</u>
		@		
		@		
		@		
HANDLING	<u>855</u>	@	<u>2.25</u>	<u>1923.75</u>
MILEAGE				<u>4702.50</u>
				TOTAL <u>21438.10</u>

EQUIPMENT

PUMP TRUCK # <u>422</u>	CEMENTER <u>Kenny</u>
BULK TRUCK # <u>457-251</u>	HELPER <u>Bob & Wayne</u>
BULK TRUCK # <u>470-467</u>	DRIVER <u>Lenny</u>
	DRIVER <u>Jose</u>

REMARKS:

THANK YOU!!!

CHARGE TO: FALCON EXPLORATION

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE _____

SERVICE

DEPTH OF JOB	<u>1850</u>	\$	<u>4</u>	
PUMP TRUCK CHARGE	<u>1925</u>			<u>0</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>100</u>	@	<u>7.00</u>	<u>700.00</u>
MANIFOLD	<u>1</u>	@	<u>200.00</u>	<u>200.00</u>
L V Mileage	<u>100</u>	@	<u>4.00</u>	<u>400.00</u>
				TOTAL <u>3225.00</u>

PLUG & FLOAT EQUIPMENT

Basket	<u>4</u>	@	<u>314.00</u>	<u>1256.00</u>
Centralizer	<u>4</u>	@	<u>67.00</u>	<u>268.00</u>
AFU Float Valve	<u>1</u>	@	<u>238.00</u>	<u>238.00</u>
Guide Shoe	<u>1</u>	@	<u>404.00</u>	<u>404.00</u>
Top Rubber Plug	<u>1</u>	@	<u>101.00</u>	<u>101.00</u>
				TOTAL <u>2267.00</u>

SALES TAX (If Any) _____

TOTAL CHARGES ~~21438.10~~

DISCOUNT _____ IF PAID IN 30 DAYS

~~15600.00~~

Cement Report

Customer <i>Falcon Exploration</i>	Lease No.	Date <i>4-17-11</i>
Lease <i>John Koehn</i>	Well # <i>1-18</i>	Service Receipt <i>01594</i>
Casing <i>4 1/2 10.5</i>	Depth <i>3600</i>	County <i>Gray</i>
Job Type <i>2 1/2 L.S.</i>	Formation	State <i>KS</i>
Legal Description <i>18-28-29</i>		

Pipe Data		Perforating Data		Cement Data
Casing size <i>4 1/2 10.5</i>	Tubing Size	Shots/Ft		Lead
Depth <i>3652</i>	Depth	From	To	Tail in <i>2655K AAD</i> <i>1.54F 3.5K</i> <i>6.64 Gal/stk 14.8#/'s</i>
Volume <i>58615</i>	Volume	From	To	
Max Press <i>2000</i>	Max Press	From	To	
Well Connection <i>4 1/2</i>	Annulus Vol.	From	To	
Plug Depth <i>3640</i>	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1800</i>					<i>Arrive On Location</i>
<i>1830</i>					<i>Safety Meeting - Rig Up</i>
<i>2000</i>					<i>Rig Run: Casing</i>
<i>100</i>					<i>Circulate w/Rig</i>
<i>130</i>					<i>Hook up To BES</i>
<i>145</i>					<i>Pressure Test</i>
<i>150</i>	<i>400</i>		<i>5</i>	<i>4.0</i>	<i>Pump Water Spacer</i>
<i>155</i>	<i>375</i>		<i>12</i>	<i>4.0</i>	<i>Pump Super Flush</i>
<i>200</i>	<i>350</i>		<i>5</i>	<i>4.0</i>	<i>Pump Water Spacer</i>
<i>205</i>	<i>300</i>		<i>58</i>	<i>4.5</i>	<i>Pump cement @ 14.8#/'s</i>
<i>225</i>					<i>Drop - Plug - Wash Up</i>
<i>230</i>	<i>600</i>		<i>48</i>	<i>6.0</i>	<i>Displace</i>
<i>245</i>	<i>1200</i>		<i>10</i>	<i>2.5</i>	<i>Slow Pump - Land Plug</i>
					<i>Plug - Held</i>
					<i>Plug - Seat & Mouse Hog</i>
					<i>Job Complete</i>
					<i>THANKS For Using Basic Energy Services</i>

Service Units	<i>19816</i>	<i>19828-19919</i>	<i>14354-19578</i>	<i>X-TRA</i>	
Driver Names	<i>I. Chavez</i>	<i>Walter M.</i>	<i>David C.</i>	<i>Heter</i>	

Leon

Customer Representative

Jerry Bennett

Station Manager

Ignacio Chavez

Cementer

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)
Address	125 N. Market, Ste. 1252	Lease #	1-18
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE
Attn.	Dave Williams	Section	18
		Township	28S
		County	Gray
		Drilling Cont	Sterling Drilling Co. Rig #5
Job Ticket		State	KS
Range			29W

Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

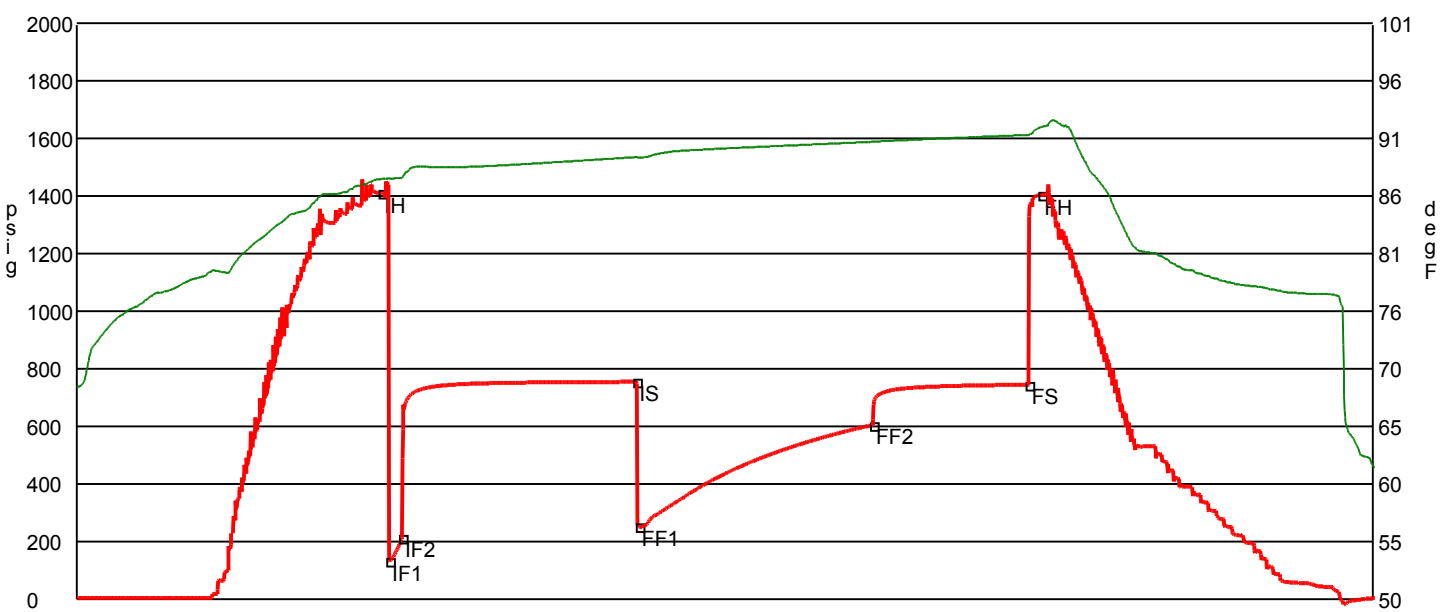
GENERAL INFORMATION

Test # 1	Test Date	4/5/2011	Chokes	3/4	Hole Size	7 7/8
Tester	Tim Venters		Top Recorder #	W1119		
Test Type	Conventional Bottom Hole		Mid Recorder #	W1022		
	Successful Test		Bott Recorder #	13310		
# of Packers	2.0	Packer Size	6 3/4	Mileage	216	Approved By
				Standby Time	0	
Mud Type	Gel Chem			Extra Equipmnt	Jars & Safety joint	
Mud Weight	8.6	Viscosity	47.0	Time on Site	11:40 AM	
Filtrate	7.6	Chlorides	2000	Tool Picked Up	1:05 PM	
				Tool Layed Dwn	8:45 PM	
Drill Collar Len	335.0			Elevation	2799.00	Kelley Bushings
Wght Pipe Len	0					2812.00
Formation	Cottonwood/Neva			Start Date/Time	4/5/2011 12:31 PM	
Interval Top	3061.0	Bottom	3192.0	End Date/Time	4/5/2011 8:47 PM	
Anchor Len Below	131.0	Between	0			
Total Depth	3192.0					
Blow Type	Fairly strong 2 inch blow at the start of the intial flow period, building, reac hing the bottom of the bucket in 3 minutes. Weak surface blow back during the i ntial shut-in period. Fairly strong 1 1/2 inch blow at the start of the final flow period, building, reaching the bottom of the bucket in 4 minutes. I bled l ine off at the 10 minute mark and it took 4 minutes to reach the bottom again. Times: 5, 90, 90, 60.					

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
250	Mud	0% 0ft	0% 0ft	0% 0ft	100% 250ft
130	Heavy water cut mud	0% 0ft	0% 0ft	40% 52ft	60% 78ft
755	Very slight mud cut water	0% 0ft	0% 0ft	94% 709.7ft	6% 45.3ft

DST Fluids **146000**



	Date	Time	Pressure	Temp	
IH	4/5/2011 2:26:40 PM	1.927778	1411.055	87.222	Initial Hydro-static
IF1	4/5/2011 2:29:40 PM	1.977778	134.288	87.253	Initial Flow (1)
IF2	4/5/2011 2:34:40 PM	2.061111	214.927	87.348	Initial Flow (2)
IS	4/5/2011 4:04:30 PM	3.558333	755.706	89.167	Initial Shut-In
FF1	4/5/2011 4:05:20 PM	3.572222	253.783	89.119	Final Flow (1)
FF2	4/5/2011 5:35:10 PM	5.069444	605.829	90.529	Final Flow (2)
FS	4/5/2011 6:35:00 PM	6.066667	745.871	91.136	Final Shut-In
FH	4/5/2011 6:39:50 PM	6.147222	1405.092	91.83	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)	
Address	125 N. Market, Ste. 1252	Lease #	1-18	
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE	Job Ticket 2147
Attn.	Dave Williams	Section	18	Range 29W
		Township	28S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

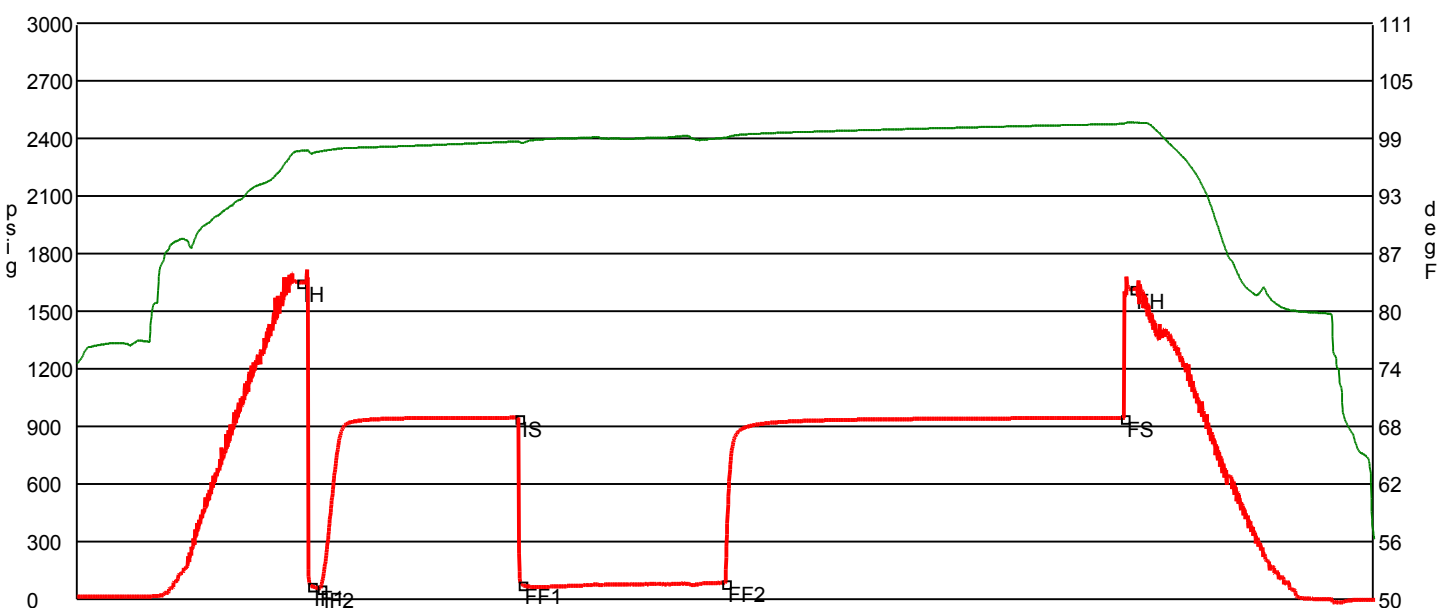
Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

GENERAL INFORMATION

Test # 2	Test Date 4/7/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
		Bott Recorder # 13310	
# of Packers 2.0	Packer Size 6 3/4	Mileage 68	Approved By
		Standby Time 0	
Mud Type Gel Chem		Extra Equipmnt Jars & Safety joint	
Mud Weight 8.7	Viscosity 50.0	Time on Site 4:00 PM	
Filtrate 8.4	Chlorides 4400	Tool Picked Up 5:00 PM	
		Tool Layed Dwn 2:05 AM	
Drill Collar Len 335.0		Elevation 2799.00	Kelley Bushings 2812.00
Wght Pipe Len 0			
Formation Stotler		Start Date/Time 4/6/2011 4:25 PM	
Interval Top 3497.0	Bottom 3560.0	End Date/Time 4/7/2011 2:11 AM	
Anchor Len Below 63.0	Between 0		
Total Depth 3560.0			
Blow Type Strong blow throughout the intial flow period, 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. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to surface in 9 minutes. Times: 5, 90, 93, 180.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
3280	Gas in Pipe	100%	0% 0ft	0% 0ft	0% 0ft
190	Mud	0% 0ft	0% 0ft	0% 0ft	100% 190ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	4/6/2011 6:05:00 PM	1.666667	1651.207	97.508	Initial Hydro-static
IF1	4/6/2011 6:09:50 PM	1.747222	70.939	97.2	Initial Flow (1)
IF2	4/6/2011 6:14:10 PM	1.819444	58.249	97.459	Initial Flow (2)
IS	4/6/2011 7:44:00 PM	3.316667	946.425	98.513	Initial Shut-In
FF1	4/6/2011 7:45:20 PM	3.338889	77.96	98.379	Final Flow (1)
FF2	4/6/2011 9:17:30 PM	4.875	86.225	98.898	Final Flow (2)
FS	4/7/2011 12:18:10 AM	7.886111	945.291	100.375	Final Shut-In
FH	4/7/2011 12:22:30 AM	7.958333	1617.398	100.494	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	19.90 mcf	10.00 h2o	0.50 in
0	20	30.05 mcf	23.50 h2o	0.50 in
0	30	33.75 mcf	29.00 h2o	0.50 in
0	40	34.90 mcf	31.00 h2o	0.50 in
0	50	36.50 mcf	34.00 h2o	0.50 in
0	60	36.78 mcf	34.50 h2o	0.50 in
0	70	69.50 mcf	24.00 h2o	0.75 in
0	80	72.40 mcf	26.00 h2o	0.75 in
0	90	74.43 mcf	27.50 h2o	0.75 in

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)	
Address	125 N. Market, Ste. 1252	Lease #	1-18	
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE	Job Ticket 2147
Attn.	Dave Williams	Section	18	Range 29W
		Township	28S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

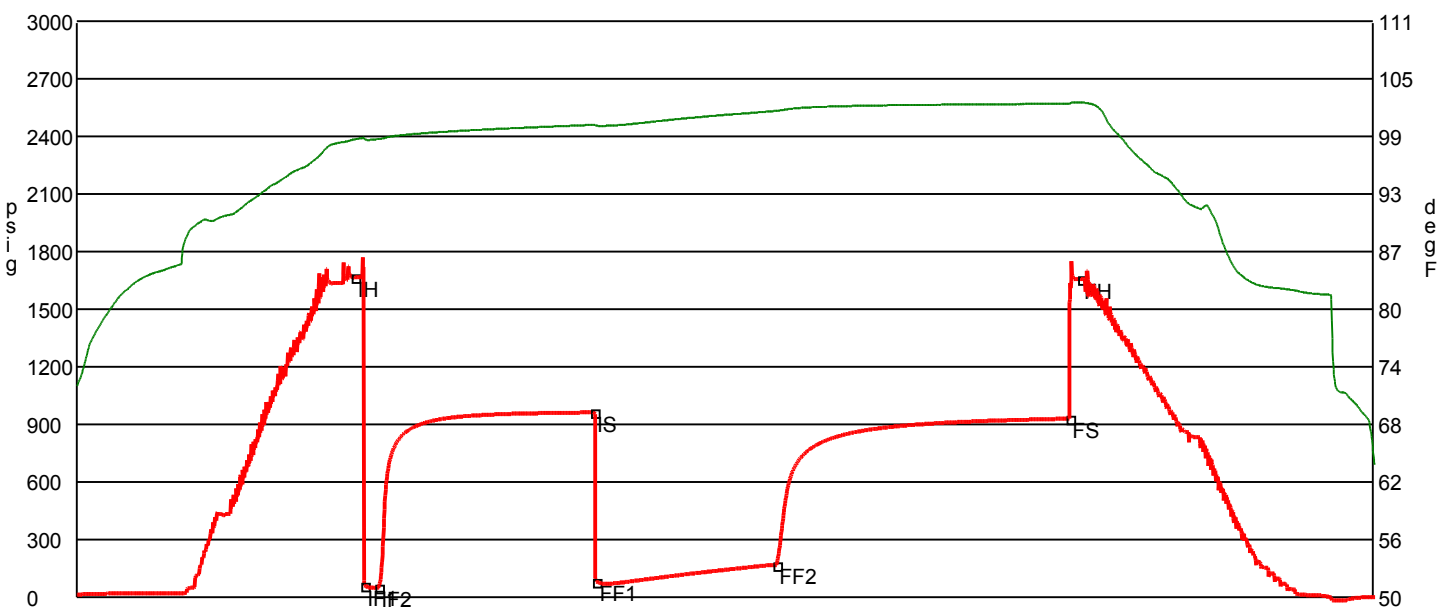
GENERAL INFORMATION

Test # 3	Test Date 4/8/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
		Bott Recorder # 13310	
# of Packers 2.0	Packer Size 6 3/4	Mileage 68	Approved By
		Standby Time 0	
Mud Type Gel Chem		Extra Equipmnt Jars & Safety joint	
Mud Weight 8.9	Viscosity 49.0	Time on Site 1:30 PM	
Filtrate 9.2	Chlorides 4800	Tool Picked Up 3:50 PM	
		Tool Layed Dwn 12:10 AM	
Drill Collar Len 335.0		Elevation 2799.00	Kelley Bushings 2812.00
Wght Pipe Len 0			
Formation Tarkio		Start Date/Time 4/7/2011 3:17 PM	
Interval Top 3588.0	Bottom 3618.0	End Date/Time 4/8/2011 12:12 AM	
Anchor Len Below 30.0	Between 0		
Total Depth 3618.0			
Blow Type Weak 1/2 inch blow at the start of the initial flow period, building to 3 inches . Very weak surface blow at the start of the final flow period, building, reaching the bottom of the bucket in 30 minutes. It never did blow water out of the bucket. Weak surface blow back at the start of the final shut-in period building to 1/2 inch in 10 minutes. It held there at least 30 minutes, but depleted to nothing by the end of the period. Times: 5, 90, 75, 122.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
155	Mud	0% 0ft	0% 0ft	0% 0ft	100% 155ft
180	Slight mud cut water	0% 0ft	0% 0ft	85% 153ft	15% 27ft

DST Fluids **115000**



	Date	Time	Pressure	Temp	
IH	4/7/2011 5:10:50 PM	1.897222	1667.164	98.525	Initial Hydro-static
IF1	4/7/2011 5:14:50 PM	1.963889	61.322	98.541	Initial Flow (1)
IF2	4/7/2011 5:20:30 PM	2.058333	50.885	98.546	Initial Flow (2)
IS	4/7/2011 6:49:50 PM	3.547222	964.054	100.058	Initial Shut-In
FF1	4/7/2011 6:50:40 PM	3.561111	82.698	99.973	Final Flow (1)
FF2	4/7/2011 8:05:10 PM	4.802778	169.516	101.538	Final Flow (2)
FS	4/7/2011 10:06:20 PM	6.822222	931.412	102.289	Final Shut-In
FH	4/7/2011 10:11:10 PM	6.902778	1656.858	102.405	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)	
Address	125 N. Market, Ste. 1252	Lease #	1-18	
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE	Job Ticket 2147
Attn.	Dave Williams	Section	18	Range 29W
		Township	28S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

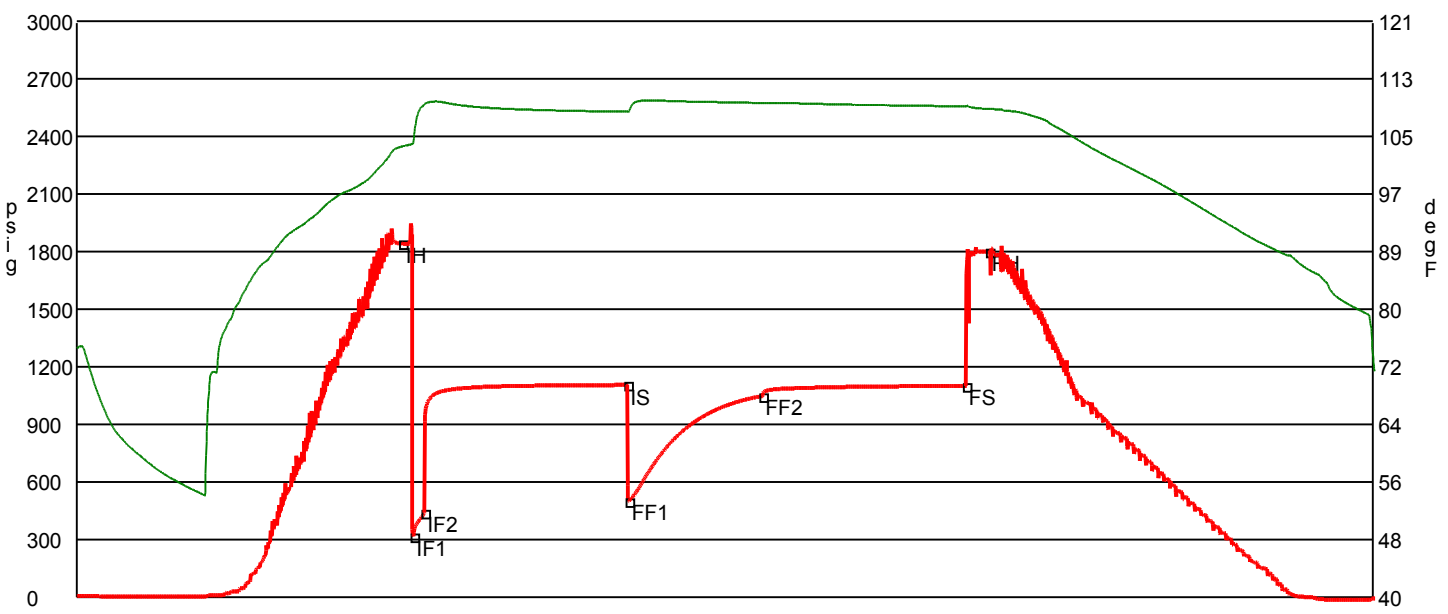
GENERAL INFORMATION

Test # 4	Test Date 4/9/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Straddle		Mid Recorder # 13310	
		Bott Recorder # W1022	
# of Packers 3.0	Packer Size 6 3/4	Mileage 216	Approved By
Mud Type Gel Chem		Standby Time 0	
Mud Weight 9.2	Viscosity 49.0	Extra Equipmnt Jars & Safety joint	
Filtrate 9.6	Chlorides 4000	Time on Site 9:40 PM	
Drill Collar Len 335.0		Tool Picked Up 1:15 AM	
Wght Pipe Len 0		Tool Layed Dwn 9:40 AM	
Formation Lower Topeka		Elevation 2799.00	Kelley Bushings 2812.00
Interval Top 3887.0	Bottom 3910.0	Start Date/Time 4/9/2011 12:14 AM	
Anchor Len Below 31.0	Between 23.0	End Date/Time 4/9/2011 9:48 AM	
Total Depth 3941.0			
Blow Type Strong blow throughout the intial flow period, building, reaching the bottom of t he bucket in 1 minute. Weak surface blow back at the start of the initial shut-in period, building to 1 1/2 inches. Strong blow throughout the final flow period, building, reaching the bottom of the bucket in 1 minute. Weak surface blow back at the start of the final shut-in period, bulding to 1/2 inch. Times; 5, 90, 60, 90.			

RECOVERY

Feet	Description	Gas		Oil		Water		Mud	
140	Very heavy water cut mud	0%	0ft	0%	0ft	40%	56ft	60%	84ft
130	Very slight mud cut water	0%	0ft	0%	0ft	93%	120.9ft	7%	9.1ft
1840	Water	0%	0ft	0%	0ft	100%	1840ft	0%	0ft

DST Fluids **150000**



	Date	Time	Pressure	Temp	
IH	4/9/2011 2:37:10 AM	2.386111	1843.438	103.438	Initial Hydro-static
IF1	4/9/2011 2:42:00 AM	2.466667	319.191	103.957	Initial Flow (1)
IF2	4/9/2011 2:47:00 AM	2.55	442.606	109.3	Initial Flow (2)
IS	4/9/2011 4:17:00 AM	4.05	1106.915	108.321	Initial Shut-In
FF1	4/9/2011 4:17:30 AM	4.058333	502.994	108.244	Final Flow (1)
FF2	4/9/2011 5:16:50 AM	5.047222	1049.554	109.55	Final Flow (2)
FS	4/9/2011 6:47:00 AM	6.55	1102.342	109.064	Final Shut-In
FH	4/9/2011 6:57:20 AM	6.722222	1801.68	108.712	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)	
Address	125 N. Market, Ste. 1252	Lease #	1-18	
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE	Job Ticket 2147
Attn.	Dave Williams	Section	18	Range 29W
		Township	28S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

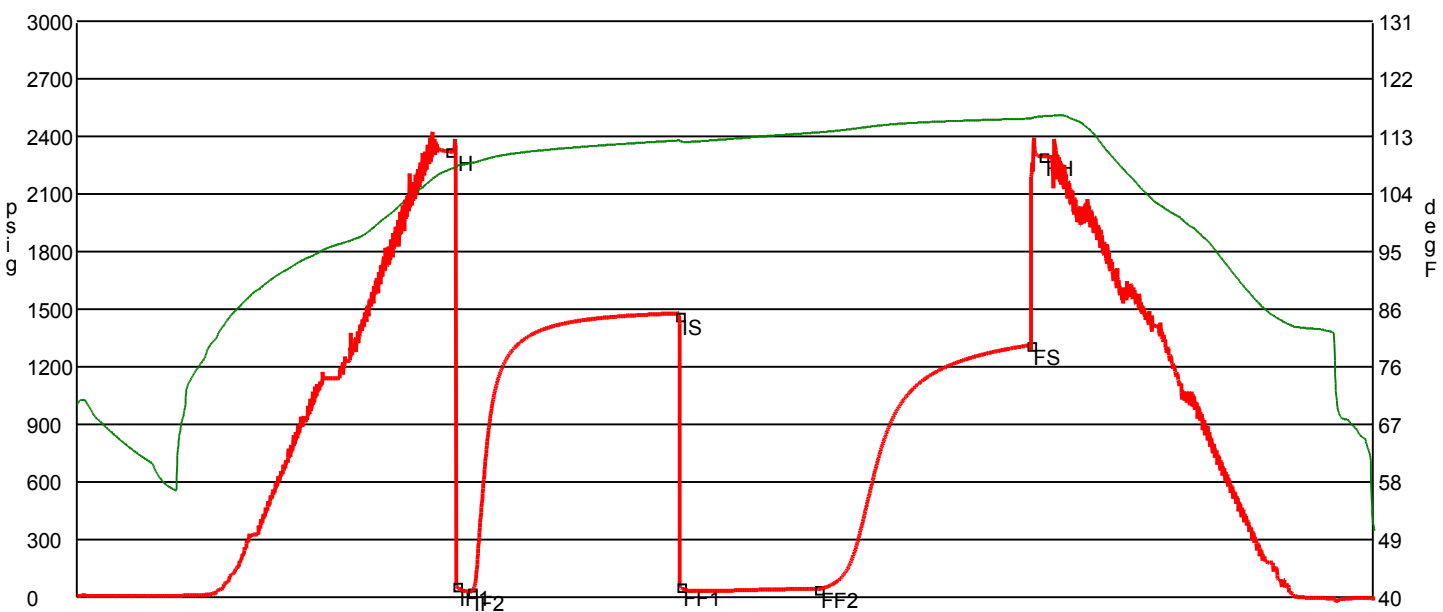
Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

GENERAL INFORMATION

Test # 5	Test Date 4/12/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
		Bott Recorder # 13310	
# of Packers 2.0	Packer Size 6 3/4	Mileage 68	Approved By
Mud Type Gel Chem		Standby Time 13.33	
Mud Weight 9.3	Viscosity 47.0	Extra Equipmnt Jars & Safety joint	
Filtrate 8.8	Chlorides 2000	Time on Site 6:40 PM	
		Tool Picked Up 9:55 PM	
		Tool Layed Dwn 6:15 AM	
Drill Collar Len 335.0		Elevation 2799.00	Kelley Bushings 2812.00
Wght Pipe Len 0			
Formation Pawnee		Start Date/Time 4/11/2011 9:06 PM	
Interval Top 4830.0	Bottom 4857.0	End Date/Time 4/12/2011 6:18 AM	
Anchor Len Below 27.0	Between 0		
Total Depth 4857.0			
Blow Type Weak surface blow at the start of the intial flow period, building to 1/4 inch. No blow for the first 4 minutes of the final flow period, but then we got a very weak surface blow that built to 1/2 inch. Times: 5, 90, 60, 90.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
60	Mud with a trace of oil	0% 0ft	trace	0% 0ft	100%60ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	4/11/2011 11:43:40 PM	2.627778	2323.246	107.61	Initial Hydro-static
IF1	4/11/2011 11:46:40 PM	2.677778	60.993	107.876	Initial Flow (1)
IF2	4/11/2011 11:53:00 PM	2.783333	31.175	108.633	Initial Flow (2)
IS	4/12/2011 1:21:50 AM	4.263889	1468.909	112.213	Initial Shut-In
FF1	4/12/2011 1:22:20 AM	4.272222	58.625	112.065	Final Flow (1)
FF2	4/12/2011 2:21:00 AM	5.25	45.888	113.482	Final Flow (2)
FS	4/12/2011 3:51:40 AM	6.761111	1314.613	115.66	Final Shut-In
FH	4/12/2011 3:56:50 AM	6.847222	2297.388	116.019	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke

Company	Falcon Exploration, Inc.	Lease Name	John Koehn (SE)	
Address	125 N. Market, Ste. 1252	Lease #	1-18	
CSZ	Wichita, KS 67202	Legal Desc	S/2-SW-NW-NE	Job Ticket 2147
Attn.	Dave Williams	Section	18	Range 29W
		Township	28S	
		County	Gray	State KS
		Drilling Cont	Sterling Drilling Co. Rig #5	

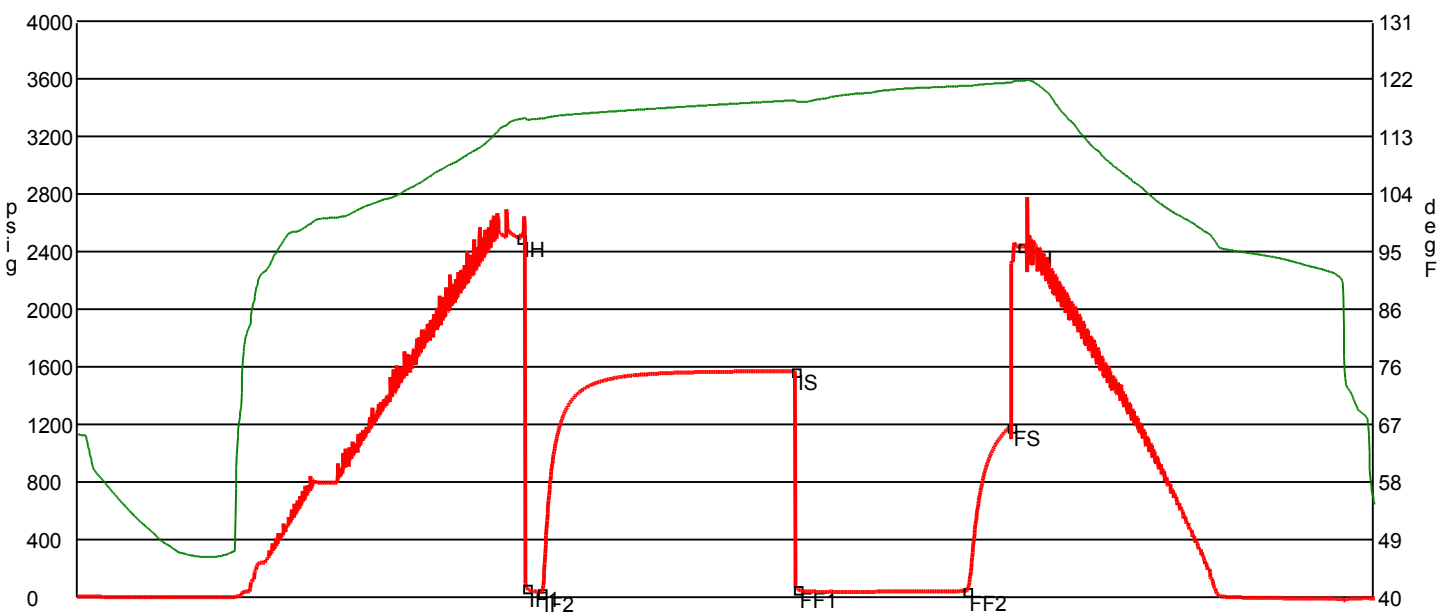
Comments **Legal Description Feet: 1560' FSL & 2310' FEL**

GENERAL INFORMATION

Test # 6	Test Date 4/14/2011	Chokes 3/4	Hole Size 7 7/8
Tester Tim Venters		Top Recorder # W1119	
Test Type Conventional Bottom Hole Successful Test		Mid Recorder # W1022	
# of Packers 2.0	Packer Size 6 3/4	Bott Recorder # 13310	
Mud Type Gel Chem		Mileage 68	Approved By
Mud Weight 9.3	Viscosity 62.0	Standby Time 0	
Filtrate 7.2	Chlorides 2000	Extra Equipmnt Jars & Safety joint	
Drill Collar Len 335.0		Time on Site 4:30 AM	
Wght Pipe Len 0		Tool Picked Up 6:10 AM	
		Tool Layed Dwn 1:00 PM	
Formation St. Louis		Elevation 2799.00	Kelley Bushings 2812.00
Interval Top 5220.0	Bottom 5259.0	Start Date/Time 4/14/2011 5:30 AM	
Anchor Len Below 39.0	Between 0	End Date/Time 4/14/2011 1:06 PM	
Total Depth 5259.0			
Blow Type Very weak surface blow at the start of the intial flow period, building to 1/4 i nch. No blow until 2 1/2 minutes into the final flow period, where we got a ver y weak surface blow that built to a little over a 1/4 inch. Times: 5, 90, 60, 1 6.			

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
40	Mud	0% 0ft	0% 0ft	0% 0ft	100% 40ft
DST Fluids	0				



	Date	Time	Pressure	Temp	
IH	4/14/2011 8:05:20 AM	2.588889	2497.399	115.613	Initial Hydro-static
IF1	4/14/2011 8:07:10 AM	2.619444	69.816	115.597	Initial Flow (1)
IF2	4/14/2011 8:12:30 AM	2.708333	37.371	115.66	Initial Flow (2)
IS	4/14/2011 9:42:00 AM	4.2	1571.407	118.559	Initial Shut-In
FF1	4/14/2011 9:42:40 AM	4.211111	60.722	118.341	Final Flow (1)
FF2	4/14/2011 10:42:30 AM	5.208333	45.954	120.808	Final Flow (2)
FS	4/14/2011 10:58:00 AM	5.466667	1186.13	121.333	Final Shut-In
FH	4/14/2011 11:01:50 AM	5.530556	2438.488	121.677	Final Hydro-static

GAS FLOWS

Min Into IFP Min Into FFP Gas Flows Pressure Choke



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

Well Name: John Koehn #1-18 (Se)
Location: S/2-Sw-Nw-Se Sec. 18 - Tsp. 28 S. - Rng. 29 W.
License Number: 15-069-20,341-00-00
Spud Date: 3/31/11
Surface Coordinates: 1500' FSL - 2310' FEL

Region: Gray Co., KS
Drilling Completed: 4/16/11

Bottom Hole Coordinates:

Ground Elevation (ft): 2799' **K.B. Elevation (ft):** 2812'
Logged Interval (ft): Surface To: 5658' **Total Depth (ft):** 5658'
Formation: Mississippian "Warsaw" Formation
Type of Drilling Fluid: Chemical

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Falcon Exploration, Inc.
Address: 125 N. Market Street, Suite # 1252
Wichita, Kansas 67202

GEOLOGIST

Name: David P. Williams
Company: DW Energy. LLC
Address: 225 N. Market Street, Ste. # 230
Wichita, Kansas 67202

Casing Information:

Surface Casing Set: 8 5/8"/24# Cemented In Pkace @ 1877' w/ 675 Sx 65/45 POZ, 6% Gel, 3% cc, 1/4# Floseal & Tail In w/ 150 Sx Class A, 2% Gel, 3% cc. Cement Did Circulat To Pit.

DST's

DST #1 = 3061'-3192'. Times: 5"-90"-90"-60"

Blow: IF Fair 2" Surface Blow Inc. to B.O.B. in 3"; FF Fair 1.5" Blow Inc. to B.O.B./4".

Recovery: 1250 TF;' (250' M. & 130' HWCM & 755' VSMCW).

Pressures: IH 1411#; FH 1405#; IF 134-215#; FF 254-606#; ISIP 756#; FSIP 746#; Temp = 92 Degrees F. CHL=146,000

DST # 2 3497'-3560" Times: 5"-90"- 93"-180" Blow; IF Strong Blow B.O.B./1". FF Strong Blow GTS/9". See Gauge Report Recovery: 3280' G.I.P. & 190' M.

Pressures: IH 1651#; FH 1617#; IF 71-58 #; FF 78-86#; ISIP 946#; FSIP 945#; Temp = 100 Degrees F.

Gas Flow: FF @ 10" = 19.9 Mcf; @ 20" = 23.5 Mcf;

@ 30" = 33.75 Mcf; @ 40" = 34.9 Mcf; @ 50" = 36.5 Mcf;

@ 60" = 36.8 Mcf Chg. Orifice Plate From 1/2" fo 3/4";

@ 70" = 69.5 Mcf; @ 80" = 72.4 Mcf; @ 90"= 74.43 Mcf.

DST # 3 3497'-3560" Times: 5"-90"-75"-120" Blow:

IF Weak Blow Inc. to 3"; FF Weak Inc. to Strong Blow BOB. @ 30". Recovery: TF= 335'. (150' M. & 185' SMCW).

Pressures: IH 1667#; FH 1657#; IIF 61-51#; FF 83-170#; ISIP 964#; FSIP 931#; Temp = 102 Degrees F. Chlor=115,000 Ppm.

DST #4 3887'-3910' Straddle (All Packers Held)

Times: 5"-90"-60"-90" Blow: IF Strong Blow BOB/1"; FF

Strong Blow BOB/ 1".

Recovery: TF= 2045': (140' VHWCM; 130' VSMCW & 1840' WTR).

Pressures: IH 1843#; FH 1802#; IF 319-443#; FF 503-1050#; ISIP 1107#; FSIP 1102#; Temp = 109 Degrees F.

Chl=150,000 Ppm.

DST # 5 4830'-4857' Times: 5"-90"-60"-90" Blow: IF Weak 1/4" Blow; FF Weak Blow Building to 1/2". Recovery: TF= 60' Mud w/Tr Oil.

Pressures: IH 2323#; FH 2297#; IF 61-31#; FF 59-46#;

ISIP 1469#; FSIP 1315#; Temp =116 Degrees F.

DST # 6 5220'-5259' Times: 5"-90"-60"-16" Blow: IF Weak 1/4" Blow; FF Weak Blow Building to 1/4".

Recovery: TF= 40' Mud.

Pressures: IH 2479#; FH 2435 #; IF 70-37#; FF 61-46#; ISIP 1571#; FSIP 1186#; Temp= 122 Degrees F.

Comments

After review of all of the pertinent geological and structural data, drill test test recoveries and reservoir pressures including electric logs analyses it was recommended by all parties to run production casing and to attempt to complete this well as a commercial producer.



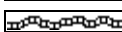
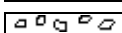
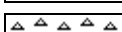
Respectfully submitted,

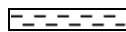




David P. Williams, P. G.






Deviation Survey's

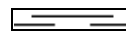
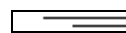
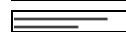

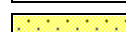
@ 1877'=3/4 degree; @ 3192'=3/4 degree; @ 3941'=1/2 degree; @ 4857'=1 degree; @ 5259'=1 degree; @ 5655'= 1/2 degree.

ROCK TYPES

	Lms
	Anhy
	Bent
	Brec
	Cht

	Clyst
	Coal
	Congl
	Dol
	Gyp

	Igne
	Lmst
	Meta
	Mrlst
	Salt

	Shale
	Shcol
	Shgy
	Sltst
	Ss

	Till
	Grn sh
	Gry shale
	Red shale
	Carb sh

ACCESSORIES

- MINERAL**
- Anhy
 - Arggrn
 - Arg
 - Bent
 - Bit
 - Breclfrag
 - Calc
 - Carb
 - Chtdk
 - Chtlt
 - Dol
 - Feldspar
 - Ferrpel
 - Ferr
 - Glau
 - Gyp

- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Dol

- FOSSIL**
- Fuss

- Oomold
- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

- Pelec
- Pellet
- Pisolite
- Plant
- Strom

- STRINGER**
- Sltstn
 - Sandylms
 - Gryslt
 - Carbsh
 - Anhy
 - Arg
 - Bent
 - Coal
 - Dol
 - Gyp

- Ls
- Mrst
- Sltstrg
- Ssstrg

- TEXTURE**
- Boundst
 - Chalky
 - Cryxln
 - Earthy
 - Finexln
 - Grainst
 - Lithogr
 - Microxln
 - Mudst
 - Packst
 - Wackest

OTHER SYMBOLS

- POROSITY**
- Earthy
 - Fenest
 - Fracture
 - Inter
 - Moldic
 - Organic
 - Pinpoint

- Vuggy
- SORTING**
- Well
 - Moderate
 - Poor

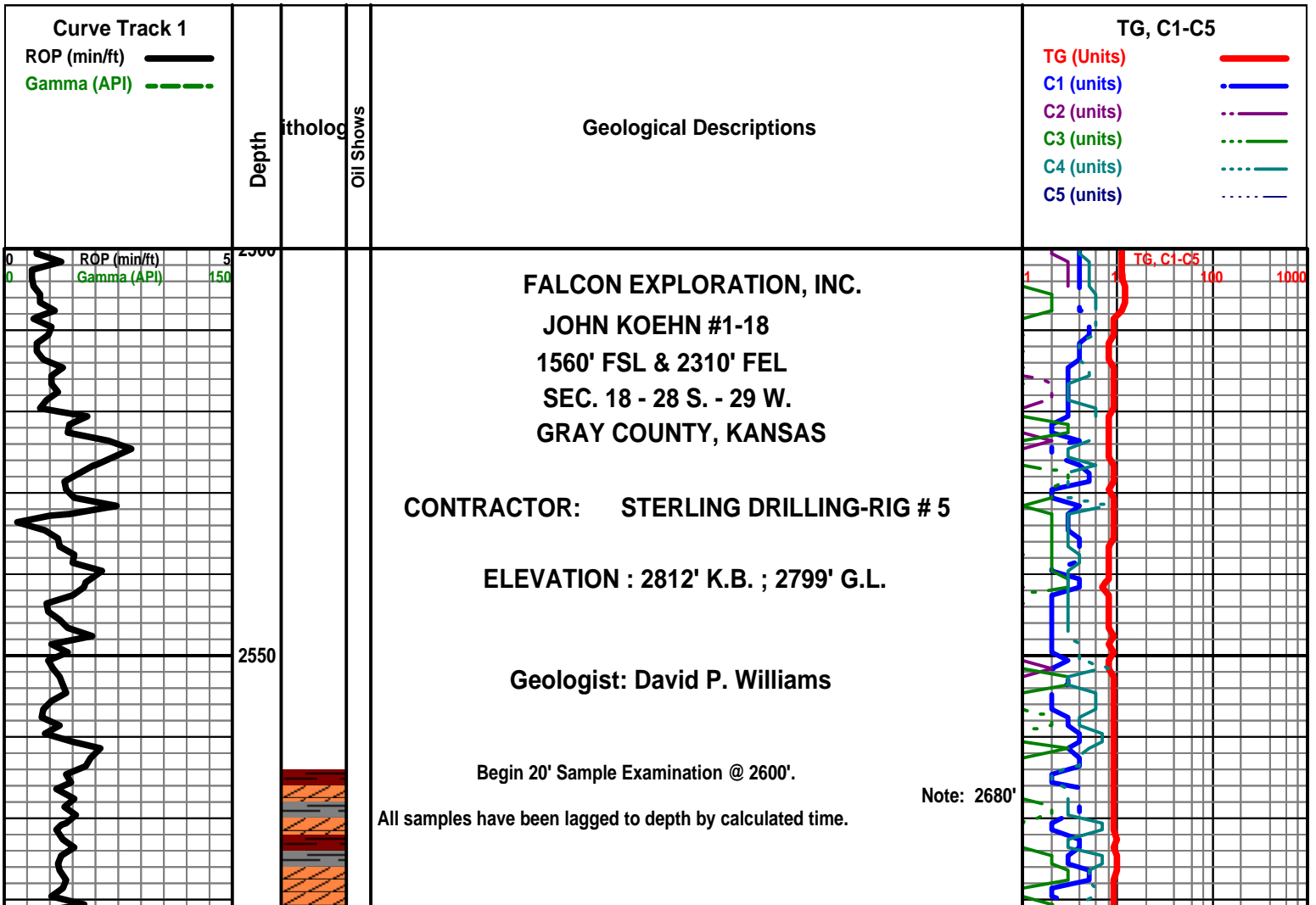
- ROUNDING**
- Rounded
 - Subrnd
 - Subang
 - Angular

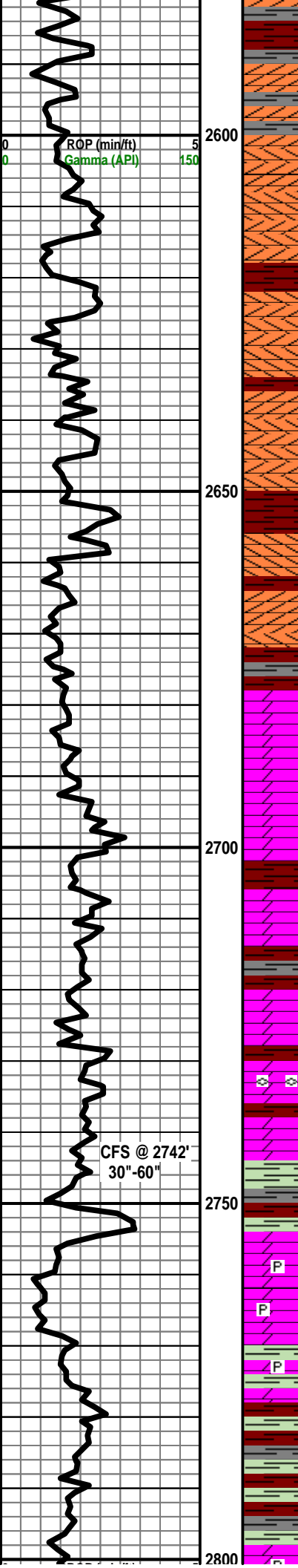
- OIL SHOW**
- Gas show

- Even
- Spotted
- Ques
- Dead

- INTERVAL**
- Dst
 - Core

- Dst
- EVENT**
- Rft
 - Sidewall





Anhy/Gyp Sh Red Soft No Odor No Stn No Flor NS

Anhy/Gyp AA Sh Red Soft AA No Odor No Stn No Flor NS

Anhy/Gyp AA Sh Red Soft AA No Odor No Stn No Flor NS

Anhy/Gyp AA Sh Red Soft AA No Odor No Stn No Flor NS

Geologist On Location @ 2650' : 08:45 A.M. on 4/4/11

Anhy/Gyp AA Sh Red Soft AA No Odor No Stn No Flor N

CHASE GROUP 2680' (+ 132)

Dolo Crm-Gry FxIn Poor IxIn Por Sh Red-Char Fissil-Soft AA No Odor No Stn No Flor NS

KRIDER 2706' (+106)

Dolo Crm-Gry FxIn Poor IxIn Por Sh Red Soft AA No Odor No Stn No Flor NS

Dolo Crm-Gry FxIn Poor IxIn Por Sh Red -Char Fissil-Soft AA No Odor No Stn No Flor NS

30" CFS Dolo Crm-Gry FxIn Poor IxIn Por Tr Fos (Fuss) Sh Red-Char Fissil- Soft AA No Odor No Stn No Flor NS

60" CFS Dolo Crm-Gry FxIn Poor IxIn Por Sh Red-Char-Grn Fissil- Soft AA No Odor No Stn No Flor NS

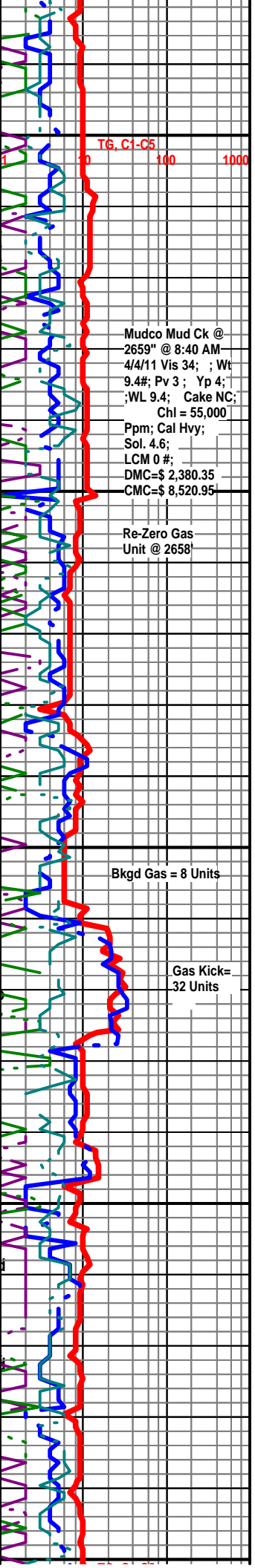
WINFIELD 2754' (+ 58)

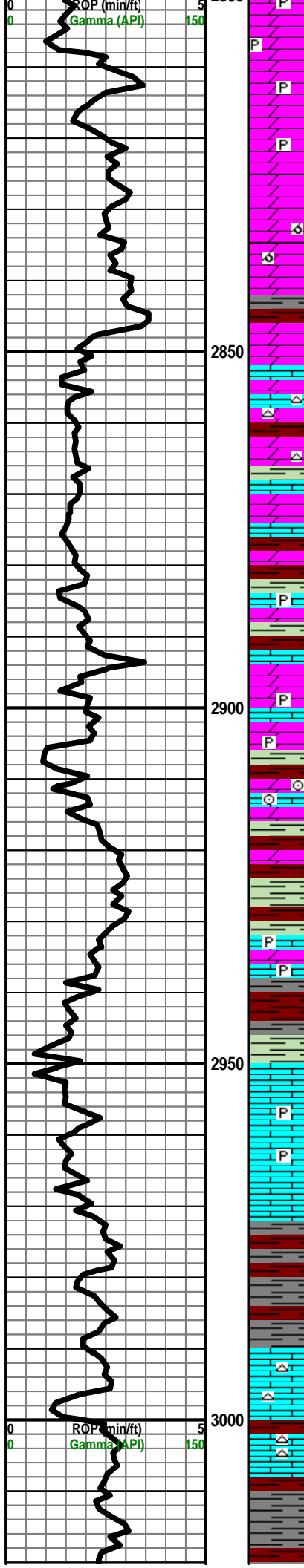
Dolo Wht-Gry FxIn Grad Sucrosic Fair-Med IxIn Por V Soft w/tr Pyr Inklus Sh Red (w/Pyr Inklus)-Char-Gry-Grn Fissil-Soft No Odor No Stn No Flor NS

Dolo Wht-Gry FxIn Grad Sucrosic Fair-Med IxIn Por V Soft w/tr Pyr Inklus Sh Red (w/Pyr Inklus)-Char-Gry-Grn Fissil-Soft No Odor No Stn No Flor NS

Sh Red (w/Pyr Inklus)-Char-Gry-Grn Fissil-Soft V Abd Dolo Wht-Gry FxIn Grad Sucrosic Fair-Med IxIn Por V Soft w/tr Pyr Inklus No Odor No Stn No Flor NS

TOWANDA 2798' (+ 14)





Dolo Wht-Gry Fxln Grad Sucrosic Fair-Med Ixln Por V Soft w/tr Pyr Inclus Ls/Dolo
 Gry V Fxln Por Cht Wht Op Vit Shp Sh Red Abd-Char-Gry-Grn Fissil-Soft No
 Odor No Stn No Flor NS

Dolo Gry-Wht Fxln Grad Tr/Sucrosic Poor-Fair Ixln Por V Soft w/tr Pyr Inclus
 Ls/Dolo Gry V Fxln Por Tr/Cht Wht Op Vit Shp Sh Red Abd-Char-Gry-Grn
 Fissil-Soft No Odor No Stn Tr/ ? Min Flor NS

Sh Red V Abd-Char-Gry-Grn V Soft (Wash Red) Dolo Wht-Gry Fxln Grad
 Sucrosic AA Poor-Fair Ixln Por Tr/ Ls/Dolo Poor OOM por (OOMolds Replaced
 w/Clay Inclus No Odor No Stn No Flor NS

FORT RILEY 2847' (- 35)

Dolo Gry-Wht Fxln Grad Tr/Sucrosic Poor-Fair Ixln Por V Soft w/tr Pyr Inclus
 Ls/Dolo Gry V Fxln Por Tr/Cht Wht Op Vit Shp Sh Red Abd-Char-Gry-Grn
 Fissil-Soft No Odor No Stn Tr/ ? Min Flor NS

Dolo Gry-Wht Fxln Grad Tr/Sucrosic Poor-Fair Ixln Por Ls/Dolo Gry V Fxln Por Sh
 Red Abd-Char-Gry-Grn Fissil-Soft No Odor No Stn No Flor NS

Dolo Gry-Wht Fxln Grad Tr/Sucrosic Poor-Fair Ixln Por Ls/Dolo Gry V Fxln Por
 Tr/Sli Pyr Inclus Sh Red Abd-Char-Gry-Grn Fissil-Soft No Odor No Stn Tr/ ? Min
 Flor NS

Dolo Gry-Wht Fxln Grad Tr/Sucrosic Fair-Med Ixln Por AA Ls/Dolo Gry V Fxln Por
 AA Fos (Crin) Sh Red Abd-Char-Gry-Grn Fissil-Soft No Odor No Stn Tr/ ? Min
 Flor NS

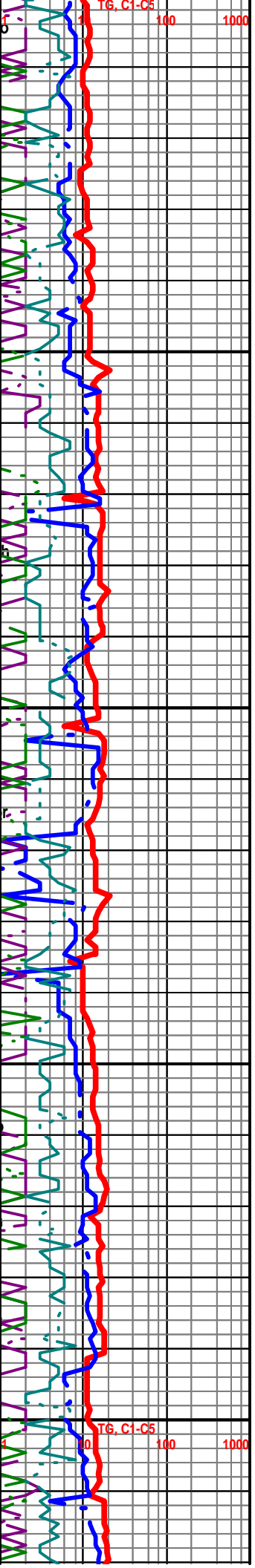
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 Ixlnn Por Pyr Mass Sh Red Abd-Char-Gry-Grn Fissil-Soft No Odor No Stn No
 Flor NS

Ls/Dolo Gry V Fxln Por Ixln Por Dolo Gry-Wht Fxln Grad Tr/Sucrosic Poor-Fair
 Ixlnn Por Pyr Mass Sh AA Red Abd-Char-Gry-Grn Fissil-Soft No Odor No Stn No
 Flor NS

Sh Red V Abd-Char-Gry-Grn V Soft (Wash Red) Tr LS/Dolo Wht-Gry Fxln Tr Fxln
 Sucrosic PorAA Poor-Fair Ixln Por No Odor No Stn No Flor NS

Sh Red V Abd-Char-Gry-Grn V Soft (Wash Red) Tr LS/Dolo Wht-Gry Fxln Tr Fxln
 Sucrosic PorAA Poor-Fair Ixln Por Cht Wht Op Shp Vit No Odor No Stn No Flor
 NS

LS Wht-Gry Fxln Poor-Fair Ixln Por Cht Wht Op Shp Vit Sh AA Red V
 Abd-Char-Gry-Grn V Soft (Wash Red) Tr No Odor No Stn No Flor NS



Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash Red) Tr LS Wht-Gry FxIn A
Poor-Fair IxIn Por Cht Wht Op Shp Vit No Odor No Stn No Flor NS

Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash Red) Tr LS Wht-Gry FxIn A
Poor-Fair IxIn Por Cht Wht Op Shp Vit No Odor No Stn No Flor NS

LS Wht-Gry FxIn Poor-Fair IxIn Por Cht Wht Op Shp Vit Sh AA Red V
Abd-Char-Gry-Grn V Soft (Wash Red) No Odor No Stn No Flor NS

LS Wht-Crm-Gry FxIn Inc Poor-Fair IxIn OOM Por w/ OOL in pl Poor Dis Poor
Develop Chalky Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash Red) No Odor
Scatt Stn Flor (Lt Grn) N^c

BADER 3090' (- 278)

LS Wht-Crrm- Gry FxIn Inc Poor-Fair IxIn Por Chalky Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash
Red) No Odor Scatt Stn Flor (Lt Grn) NS

COTTONWOOD 3105' (-293)

LS Wht-Tan FxIn Inc Poor-Fair IxIn OOM Por w/ OOL in pl Poor Dis Poor Develop
Poor-Fair Leaching Chalky Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash Red)
No Odor Scatt Stn Flor (Lt Grn) NS

Sh AA Red V Abd-Char-Gry-Grn V Soft (Wash Red) LS Wht-Gry FxIn Grad Dns
Micritic No Odor No Stn No Flor Nⁱ

LS Wht-Tan FxIn Inc Poor-Fair IxIn OOM Por w/ OOL in pl Poor Dis Poor Develop
Poor-Fair Leaching ABD Chalk Sh ABD Red V Abd-Char-Gry-Grn V Soft (Wash
Red) No Odor Scatt Stn Flor (Lt Grn) Nⁱ

NEVA 3171' (- 359)

30" CFS LS Wht F-Med OOM Por w/OOL in PI Fair IXLN Por w/ Tr Poor-Fair
InterOOM Por w/Fair-Good Scat Flor (Lt Grn) Tr Chalk Sh AA No Odor Nⁱ

60" CFS LS Wht F-Med OOM Por w/OOL in PI Fair IXLN Por w/ Tr Poor-Fair
InterOOM Por w/Fair-Good Scat Flor (Lt Grn) Tr ChalkSh AA No Odor NS

DISPLACE MUD SYSTEM @ 3192'

RED EAGLE 3198' (- 386)

LS Wht-Crm FxIn Poor IxIn Micritic Por Cht Tan-Gry Op Shp Vit Chalk Abd Sh
Char-Gry-Tr Red Dec No Odor No Stn No Flor NS

LS Crm-Gry FxIn Poor IxIn Micritic Por Cht Wht-Tan-Gry Op Shp Vit Chalk Abd
Sh Char-Gry-Tr Red Dec No Odor No Stn No Flor NS

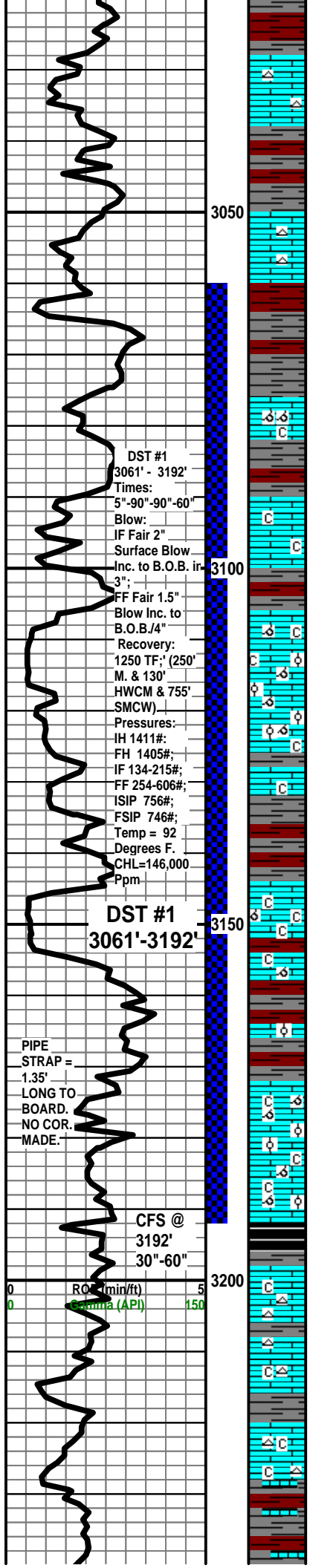
Sh Red-Char-Gry Soft-Fissil LS Wht-Crm-Gry FxIn Poor Pin-Pt IxIn Micritic Por
Chalk No Odor No Stn No Flor NS

Mudco Mud Ck @
3192" @ 8:050 AM
4/5/11 Vis 47; Wt
8.55#; Pv 14 Yp 15;
WL 7.6; Cake 1;
Chl = 2,000 Ppm;
Cal 20; Sol. 2.1;
LCM 3#;
DMC=\$ 1,155.85
CMC=\$ 9,155.85

GAS Kick @
3182' = 56
Units

GAS Kick
@ 3192' =
64 Units

Re-Zero
Tooke Daq @
3204' Bkgd
Gas = 12
Units) 1000



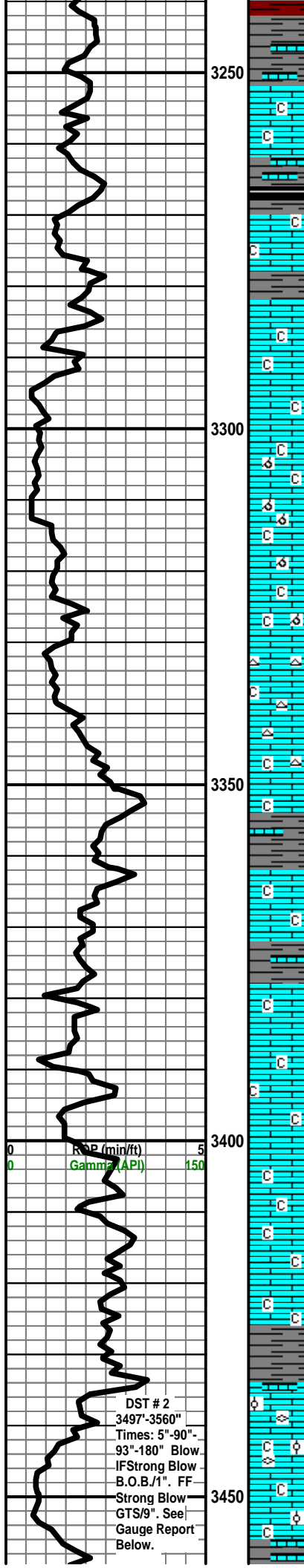
DST #1
3061' - 3192'
Times:
5"-90"-90"-60"
Blow:
IF Fair 2"
Surface Blow
Inc. to B.O.B. in
3";
FF Fair 1.5"
Blow Inc. to
B.O.B./4"
Recovery:
1250 TF; (250'
M. & 130'
HWCM & 755'
SMCW)
Pressures:
IH 1411#;
FH 1405#;
IF 134-215#;
FF 254-606#;
ISIP 756#;
FSIP 746#;
Temp = 92
Degrees F.
CHL=146,000
Ppm

DST #1
3061'-3192'

PIPE
STRAP =
1.35'
LONG TO
BOARD.
NO COR.
MADE.

CFS @
3192'
30"-60"

RO (min/ft) 5
Gamma (API) 150



LS Wht-Crm-Gry FxIn Poor IxIn Micritic Por Chalk Abd Sh Char-Gry-Tr Red Dec
No Odor No Stn No Flor NS

LS Wht-Crm-Gry FxIn Poor-Fair Pin-Pt IxIn Por Chalk V Abd Sh Char-Gry-Tr Red
Dec No Odor No Stn No Flor NS

FORAKER 3282' (- 470)

LS AA Wht-Crm-Gry FxIn Poor-Fair-Med Pin-Pt IxIn Por Chalk V Abd Sh
Char-Gry-Tr Red (1 Pc) Dec No Odor No Stn No Flor NS

LS AA Wht-Crm-Gry FxIn Poor-Fair-Med Pin-Pt IxIn w/ Tr OOM Por w/ Small OOL
in PI Poor-Fair Dis Poor-Fair Develop Tr Leaching Por Chalk V Abd Sh
Char-Gry-Tr Red (1 Pc) Dec No Odor No Stn No Flor NS

LS Crm-Gry FxIn Poor-Fair-Med Pin-Pt IxIn Grad Micritic Chalk Abd Cht Wht-Tan
Op Vit Shp Sh Char-Gry No Odor No Stn No Flor NS

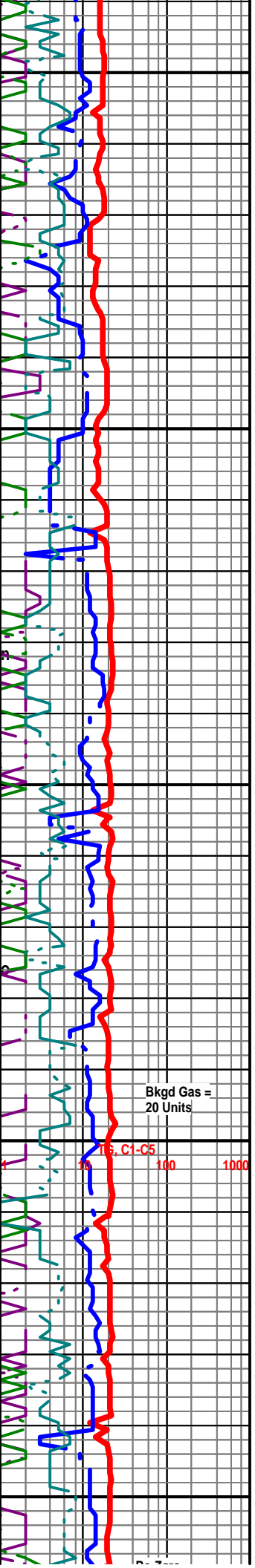
LS Gry FxIn Tr Poor Pin-Pt IxIn Grad Chalk V. Abd Sh Char-Gry No Odor No
Stn No Flor NS

LS AA Gry FxIn Tr Poor Pin-Pt IxIn Grad Chalk V. Abd Sh Char-Gry No Odor No
Stn No Flor NS

LS Crm- Gry FxIn Tr Poor Pin-Pt IxIn Grad Chalk V. Abd Sh Char-Gry No Odor
No Stn No Flor NS

LS Wht- Crm FxIn Micritic Chalk V. Abd Sh Char-Gry No Odor No Stn No Flor
NS

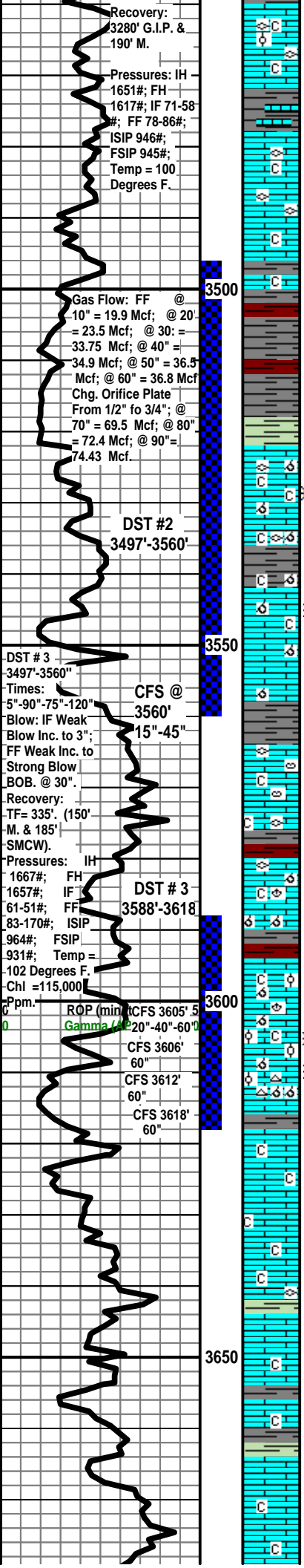
LS Wht Crm FxIn Tr Poor Small Pin-Pt OOL Por Poor-Fair Leaching Poor Devel
Fos (Fuss) Chalk V. Abd Sh Char-Gry Tr Only No Odor No Stn No Flor NS



Bkgd Gas =
20 Units

T6, C1-C5
10 100 1000

DST # 2
3497'-3560"
Times: 5"-90"
93"-180" Blow
IF Strong Blow
B.O.B./1". FF
Strong Blow
GTS/9". See
Gauge Report
Below.



LS Crm-Wht-FxIn Tr Poor Small Pin-Pt OOL Por Poor-Fair Leaching Dec Por Devel Grad Micritic Fos (Fuss) Chalk V. Abd Sh Char-Gry No Odor No Stn No Flor NS

Note: Start 10' Sample Examination @ 3480'.

LS Crm-Wht-Gry FxIn Micritic Fos (Fuss) Chalk V. Abd Sh Tr Only Char-Gry No Odor No Stn No Flor NS

LS Crm-Wht-Gry FxIn Micritic Fos (Fuss) Chalk V. Abd Sh Tr Only Char-Gry No Odor No Stn No Flor NS

Sh Char-Gry-Olive-Red V Soft- Fissil LS AA Wht-Crm-Gry FxIn Poor Pin-Pt Ixln Micritic Dec Chalk AA No Odor No Stn No Flor N

Sh Char-Gry-Olive-Red V Soft- Fissil LS AA Wht-Crm-Gry FxIn Poor Pin-Pt Ixln Micritic Dec Chalk AA No Odor No Stn No Flor NS

STOTLER 3522' (- 710)

Sh Red-Char-Gry-Olive V Soft- Fissil LS AA Wht-Crm-Gry FxIn Poor Pin-Pt Ixln Micritic Dec Chalk AA No Odor No Stn No Flor NS

15" 3560 CFS LS Wht-Crm FxIn V- FxIn Pin-Pt Por w/SSG W/Brokrn Poor-Fair Small-Med Pin-Pt OOL Por Poor-Fair Leaching Dec Poor InterOOM Devel Fos (Fuss) Chalk Sh Tr Char-Gry No Odor ? Scat Stn (Lt Grn) Flor SSG

3560' 45" CFS LS Wht-Crm FxIn V- FxIn Pin-Pt Por w/ SSG Poor-Fair Small-Med Pin-Pt OOL Por Poor-Fair Leaching Dec Poor InterOOM Devel Fos (Crim, Fuss) Chalk Sh Tr Char-Gry No Odor Sli Stn Flor SSG

Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por w/ Abd Fos (Fuss, Spic) Poor Ixln P Dns Sh Char Fissil No Odor Scat Stn Flour (Lt Grn) N

Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por w/ Abd Fos (Fuss, Spic) Poor Ixln P Dns Sh Char Fissil No Odor Scat Stn Flour (Lt Grn) NS

3605' 20" CFS Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por w/ Abd Fos (Fuss, Spic) Poor Ixln Por Dns Tr Chalk Sh Char-Red Fissil No Odor Scat Stn Flour (Lt Grn) NS

3605' 40" CFS Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por Tr OOM Por Poor InterOOL Por w/Small OOL in pl Fos (Brach) Poor Ixln Por Dns Tr Chalk Sh Char-Red Fissil No Odor Scat Stn Flour (Lt Grn) NS

TARKIO 3595' (- 783)

3605' 60" CFS Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por Tr OOM Por Poor InterOOL Por w/Small OOL in pl Fos (Brach) Poor Ixln Por Dns Tr Chalk Sh Char-Red Fissil No Odor Scat Stn Flour (V Lt Grn) NS

3506' CFS- 60" Ls Wht-Crm FxIn Micritic Tr/ Vfg Pin-Pt Por Tr OOM Por w/OOL in pl Poor-Fair InterOOL/OOM Por w/Small OOL in pl Fos (Brach) Poor Ixln Por Dns Tr Chalk Sh Char-Red Fissil No Odor Sli Scat Stn Flour (V Lt Grn) NS

3512' CFS-60" Ls Wht-Crm FxIn Tr/ Vfg Pin-Pt Por Tr OOM Por w/OOL in pl Poor-Fair InterOOL/OOM Por w/Small OOL in pl Cht Wht Abd Op Shp Vit Tr Chalk Sh Char Fissil No Odor Sli Scat Stn Flour (V Lt Grn) SSG

3618' CFS 60" Ls Wht-Crm FxIn Tr/ Vfg Pin-Pt Por Tr OOM Por w/OOL in pl Poor-Fair InterOOL/OOM Por w/Small OOL in pl Fos (Fuss) Cht Wht-Gry-Tan Abd Op Shp Vit Tr Chalk Sh Char Fissil No Odor Sli Scat Stn Flour (V Lt Grn) SSG

Ls Wht-Crm-Gry FxIn Micritic Tr Poor Ixln Gran Por Mostly Dns Chalk Sh Tr Char-Red Fissil No Odor No Stn Flour NS

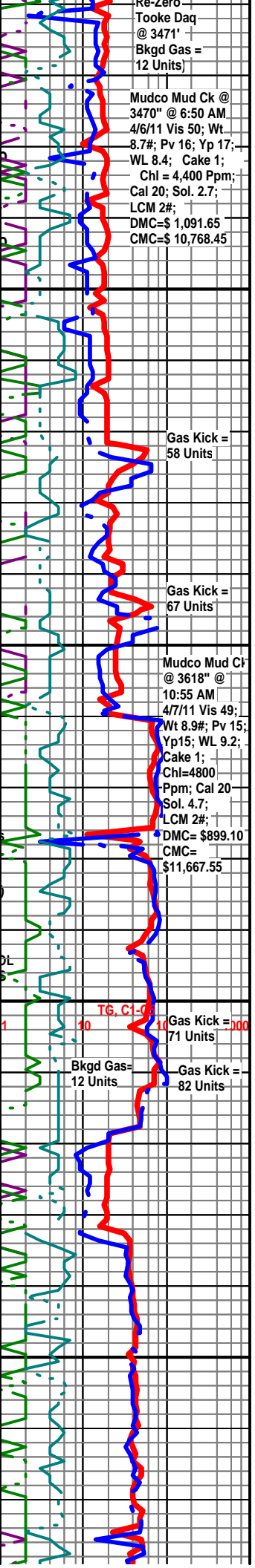
Ls Wht-Crm-Gry FxIn Micritic Tr Poor Ixln Gran Por Mostly Dns Chalk Sh Tr Char-Red Fissil No Odor No Stn Flour NS

Ls Wht-Crm-Gry FxIn AA Micritic Tr Poor Ixln Gran Por Mostly Dns Fos (Fuss) Chalk Sh Tr Char-Red Fissil No Odor No Stn Flour NS

Ls Wht-Crm-Gry FxIn Micritic Tr Poor Ixln Gran Por Mostly Dns Chalk Sh Tr Char-Red Fissil No Odor No Stn Flour NS

Ls Crm-Gry FxIn Micritic Tr Poor Ixln Gran Por Mostly Dns Chalk Sh Tr Char-Red-Olive Fissil No Odor No Stn Flour NS

Ls Crm-Gry AA FxIn Micritic Tr Poor Ixln Gran Por Mostly Dns Chalk Sh Tr Char-Red Fissil No Odor No Stn Flour NS



Ls Crm-Gry AA FxIn Micritic Tr Poor IxIn Gran Por Mostly Dns Chalk Cht
Wht-Gry Op Shp Vit Sh Tr Char-Red Fissil No Odor No Stn Flour NS

BERN 3692' (-880)

Ls Wht-Crm FxIn Tr/Poor OOM Por Tr/Pin-Pt Por Tr OOM Por w/OOL in pl Poor-Fair InterOOL/OOM Por
w/Small OOL in pl Poor InterOOM Por Fos (Fuss) Chalk Sh Char Fissil No Odor Sli Scat Stn Flour (Y
Lt Grn) SSG

Ls Crm-Gry-Wht FxIn Tr/Pin-Pt Por Poor-Fair IxIn Gran Por Fos V Abd(Fuss) Tr
Chalk Sh Char Fissil No Odor No Stn No Flour NS

Ls Wht-Crm FxIn Poor IxIn Por Mostly Mricrite Tr Poor Dns OOM Por w/ OOL in pl
No Dis Poor-No Leaching Tr Fos V Abd (Fuss) AA Chalk Inc Sh Char Fissil No
Odor No Stn No Flour NS

Ls Wht FxIn Poor IxIn Por Mostly Mricrite Dns Chalk AA Sh Char Fissil No Odor
No Stn No Flour NS

Ls Wht FxIn Poor IxIn Por Mostly Mricrite Dns Chalk AA Sh Char Fissil No Odor
No Stn No Flour NS

Ls Wht-Crm FxIn Poor IxIn Por Mostly Mricrite Tr Poor Dns OOM Por w/ OOL in pl
No Dis Poor-No Leaching Tr Fos (Fuss, Crin) Chalk Inc Sh Char-Red Fissil No
Odor No Stn No Flour NS

Ls Crm FxIn Poor-Fair OOM Por w/ OOL in pl Poor Dis Poor Develop Poor
Leaching Chalk Abd Sh Char-Red Fissil No Odor No Stn No Flour NS

Ls Crm FxIn Gran Poor IxIn Por Cht Wht Op Shp Vit Chalk AA Fos (Fuss) Sh
Char-Red-Grn Fissil No Odor No Stn No Flour N

Ls Crm FxIn Gran Poor IxIn Por Cht Wht Op Shp Vit Abd Chalk Inc AA Fos
(Fuss) Sh Char-Red-Grn Fissil No Odor No Stn No Flour NS

Ls Crm FxIn Gran Poor IxIn Por Abd Chalk Inc AA Fos (Fuss) Sh Char-Red-Grn
Fissil No Odor No Stn No Flour NS

TOPEKA 3794' (- 982)

Ls Wht- Crm FxIn Gran Poor IxIn Por Cht Wht-Gry Abd Inc Op Shp Vit Chalk AA
Pyr Includ Sh Char-Blk Carb Fissil No Odor No Stn No Flour NS

Ls Wht FxIn Gran Poor IxIn Por Micrite Cht Wht-Gry Abd Inc Op Shp Vit Chalk
AA Pyr Includ Sh Char-Red-Grn Fissil No Odor No Stn No Flour NS

Ls Wht FxIn Gran Poor IxIn Por Micrite Cht Wht-Gry Dec Op Shp Vit Chalk Inc Sh
Char-Red Fissil No Odor No Stn No Flour NS

Ls Wht-Crm FxIn Poor IxIn Por Mricrite AA w/Tr Poor Gran FxIn Por Fos (Fuss)
Chalk Inc Sh Char Fissil No Odor No Stn No Flour N

Ls Wht-Crm FxIn Poor IxIn Por Mricrite AA w/Tr Poor Gran FxIn Por Cht Wht Op
Shp Vit Fos (Fuss) Chalk AA Sh Char Fissil No Odor No Stn No Flour NS

Ls Wht-Crm FxIn Poor Gran FxIn Por Cht Wht Op Shp Vit Fos (Fuss) Chalk AA
Sh Char Inc Fissil No Odor No Stn No Flour N

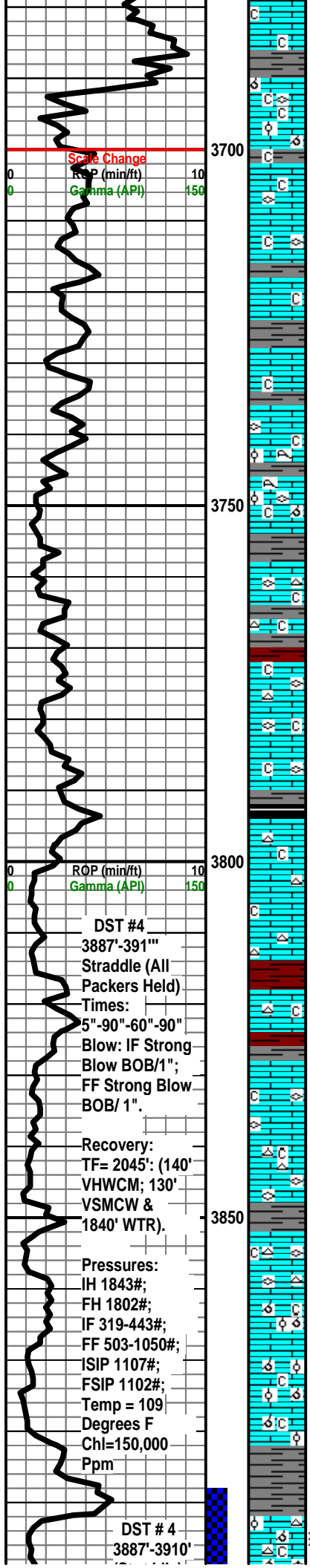
Ls Wht-Crm FxIn OOM Por w/ OOL in pl Poor Dis Poor Leaching Fos (Brac)
Chalk AA Sh Char Fissil No Odor No Stn No Flour NS

Ls Wht-Crm FxIn OOM Por w/ OOL in pl Poor Dis Poor Leaching Chalk AA Fos
(Fuss) Sh Char Fissil No Odor No Stn No Flour NS

Sh Char-Gry Fissil Ls Wht-Crm FxIn OOM Por w/ OOL in pl Poor Dis Poor
Leaching Grad Dns Micrite Chalk AA No Odor No Stn No Flour NS

Lower Topeka 3892' (- 1080)

Ls Wht-Crm FxIn Poor-Fair-Med OOM Por w/ OOL in pl Poor-Fair Dis Poor-Fair Leaching w/ VSSG (w/Broken w/Heat) Cht Wht Op Shp Vit Chalk Abd AA Fos (Brach) Sh Char Fissil No Odor ? V Sli Fk



Scale Change
ROP (min/ft) 10
Gamma (API) 150

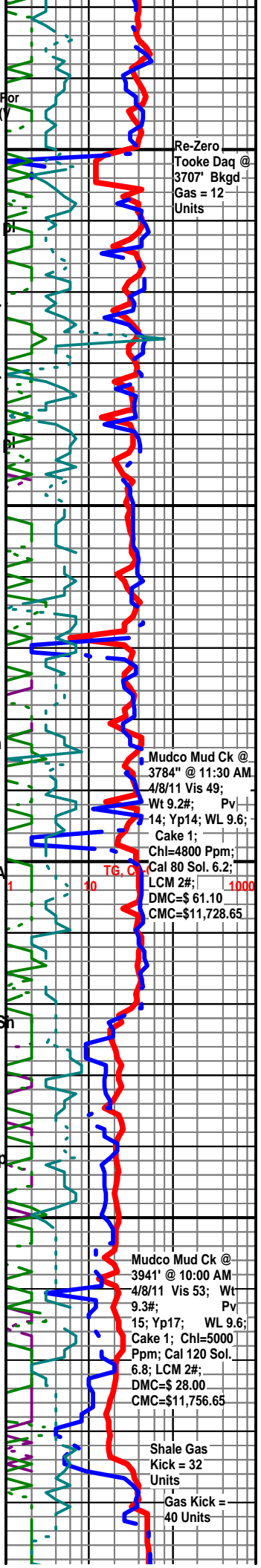
ROP (min/ft) 10
Gamma (API) 150

DST #4
3887'-391"
Straddle (All
Packers Held)
Times:
5"-90"-60"-90"
Blow: IF Strong
Blow BOB/1";
FF Strong Blow
BOB/1".

Recovery:
TF= 2045': (140'
VHWCW; 130'
VSMCW &
1840' WTR).

Pressures:
IH 1843#;
FH 1802#;
IF 319-443#;
FF 503-1050#;
ISIP 1107#;
FSIP 1102#;
Temp = 109
Degrees F
Chl=150,000
Ppm

DST # 4
3887'-3910'



Re-Zero
Tooke Daq @
3707' Bkgd
Gas = 12
Units

Mudco Mud Ck @
3784" @ 11:30 AM
4/8/11 Vis 49;
Wt 9.2#; Pv
14; Yp14; WL 9.6;
Cake 1;
Chl=4800 Ppm;
Cal 80 Sol. 6.2;
LCM 2#; 1000
DMC=\$ 61.10
CMC=\$11,728.65

Mudco Mud Ck @
3941" @ 10:00 AM
4/8/11 Vis 53; Wt
9.3#; Pv
15; Yp17; WL 9.6;
Cake 1; Chl=5000
Ppm; Cal 120 Sol.
6.8; LCM 2#;
DMC=\$ 28.00
CMC=\$11,756.65

Shale Gas
Kick = 32
Units
Gas Kick =
40 Units

(Straddle) 3900

VSSG

Ls Wht-Crm FxIn Poor-Fair-Med OOM Por w/ OOL in pl Poor-Fair Dis Poor-Fair Leaching ? VSSG w/Broken Cht Wht Op Shp Vit Chalk Abd Sh Char Fissil Tr No Odor ? V Sli Flour NS

Ls Wht-Crm FxIn Poor-Fair OOM Por w/ OOL in pl Poor-Fair Dis Poor-Fair Leaching Fos (Brach) Cht Wht Op Shp Vit Chalk Abd Sh Tr Char Fissil No Odor ? V Sli Flour NS

45" CFS @ 3941' Ls Wht-Crm AA FxIn Poor-Fair OOM Por w/ OOL in pl Poor-Fair Dis Poor-Fair Leaching Grad FxIn Dns Micrite Fos (Fuss) Cht Wht Op Shp Vit Chalk Abd Sh Tr Char Fissil No Odor ? V Sli Flour NS

60" CFS @ 3941' Ls Wht-Crm FxIn Poor-Fair OOM Por w/ OOL in pl Poor-Fair Dissol Poor-Fair Leaching Fos (Fuss) Cht Wht-Gry Op Shp Vit Chalk Abd Sh Tr Char Fissil No Odor ? V Sli Flour NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Fos (Crin) Cht Wht-Gry AA Op Shp Vit Chalk Abd Sh Tr Char Fissil No Odor No Flour NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Fos (Crin) Cht Wht-Gry AA Op Shp Vit Chalk Abd Sh Tr Char Fissil No Odor No Flour NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Cht Wht-Gry AA Op Shp Vit Chalk AA Sh Tr Char Fissil No Odor ? Scat min Flor NS

LeCompton 3976' (- 1164)

Ls Crm-Wht FxIn Poor IxIn Por Micritic Grad FxIn Poor Pin-Pt Por Cht Wht-Gry AA Op Shp Vit Chalk AA Sh Tr Char Fissil No Odor ? Scat min Flor NS

Ls Gry-Crm-Wht FxIn Poor IxIn Por Micritic Grad Tr FxIn Poor Pin-Pt Por AA Cht Wht-Gry AA Op Shp Vit Chalk AA Sh Tr Char Fissil No Odor ? Scat min Flor NS

Ls Gry-Crm-Wht FxIn Poor IxIn Por Micritic Grad Tr FxIn Poor Pin-Pt Por AA Cht Wht-Gry AA Op Shp Vit Chalk AA Sh Tr Char Fissil No Odor ? Scat min Flor NS

Ls Gry-Crm FxIn Micritic AA Grad Poor-Fair OOM Por w/ OOL in pl Poor-Fair Dis Poor-Fair Leaching Fos (Fuss) Chalk AA Sh Tr Char Fissil No Odor ? V Sli Flour NS

Ls Wht-Crm FxIn Poor Micritic Tr Poor Pin-Pt Gran Por Grad Tr OOM Por Poor Dis Poor Leaching Chalk AA Sh Tr Char Fissil No Odor ? V Sli Flour NS

Ls Wht-Crm FxIn Poor Micritic Tr Poor Pin-Pt Gran Por Grad Tr OOM Por Poor Dis Poor Leaching Chalk AA Sh Tr Char-Red-Blk ? Carb Fissil No Odor No Flour NS

Ls Wht-Crm FxIn Poor Micritic Tr Poor Pin-Pt Gran Por Grad Tr OOM Por Poor Dis Poor Leaching Chalk AA Sh Tr Char-Red-Blk ? Carb Fissil No Odor No Flour NS

Ls Wht-Gry FxIn Poor IxIn Por Micritic Cht Wht-Gry Op Shp Vit Chalk AA Sh Tr Char Fissil No Odor No Flour NS

Ls Wht-Crm FxIn Micritic AA Grad Poor Gran OOL Por w/small OOL in pl Poor Dis Poor Leaching Fos (Fuss) Chalk AA Sh Tr Char-Red Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic AA Grad FxIn Gran Poor Pin-Pt IxIn Por w/Poor OOL Por w/small OOL in pl Poor Dis Poor Leaching Fos (Fuss) Chalk Inc Abd Sh Tr Char-Red Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic AA Grad FxIn Gran Poor Pin-Pt IxIn Por w/Poor OOL Por w/small OOL in pl Poor Dis Poor Leaching Fos (Fuss) Chalk Wht Inc Abd Sh Tr Char-Red Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic AA Grad FxIn Gran Poor Pin-Pt IxIn Por w/Poor OOL Por w/small OOL in pl Poor Dis Poor Leaching Fos (Fuss) Chalk Wht Inc Abd Sh Tr Char-Red Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic AA Grad FxIn Gran Poor Pin-Pt IxIn Por w/Poor OOL Por w/small OOL in pl Poor Dis Poor Leaching Fos (Fuss) Chalk Wht Inc Abd Sh Tr Char-Red Fissil No Odor No Flour NS

Ls Wht-Crm FxIn Micritic AA Grad Poor Gran OOL Por w/small OOL in pl Poor Dis Poor Leaching Cht Wht Op Shp Vit Fos (Fuss) Chalk AA Sh Tr Char-Blk ? Carb Fissil No Odor No Flour NS

Ls Wht-Crm FxIn Micritic AA Grad Poor Gran OOL Por w/small OOL in pl Poor Dis Poor Leaching Cht Wht Op Shp Vit Fos (Spic) Chalk AA Sh Tr Char-Red

Gas Kick = 62 Units

Re-Zero Tooke Daq @ 3938'. Zero Set @ 12 Units Bkgd Gas = 52 Units

CFS @ 3941' 45"=60"

Pipe Strap = 3.02' Long to Board (No Correction Made)

3950

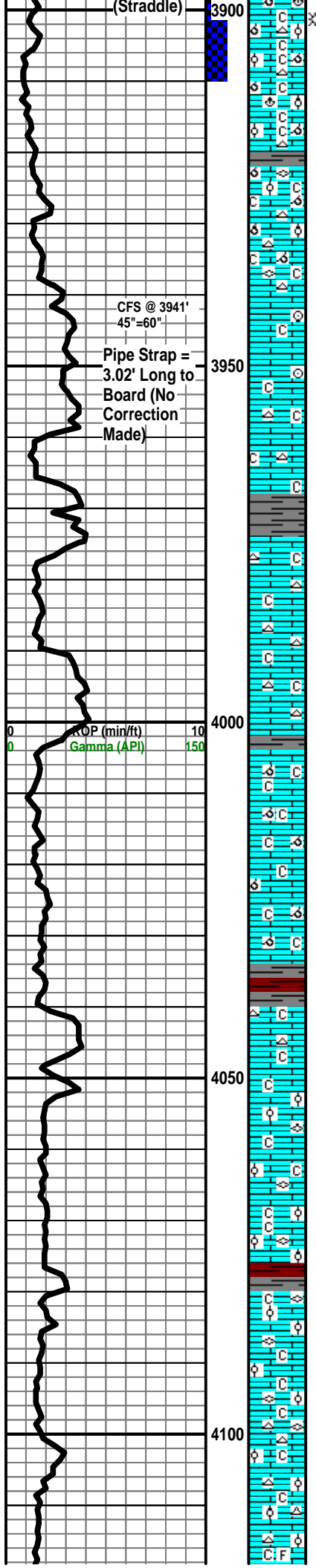
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4050

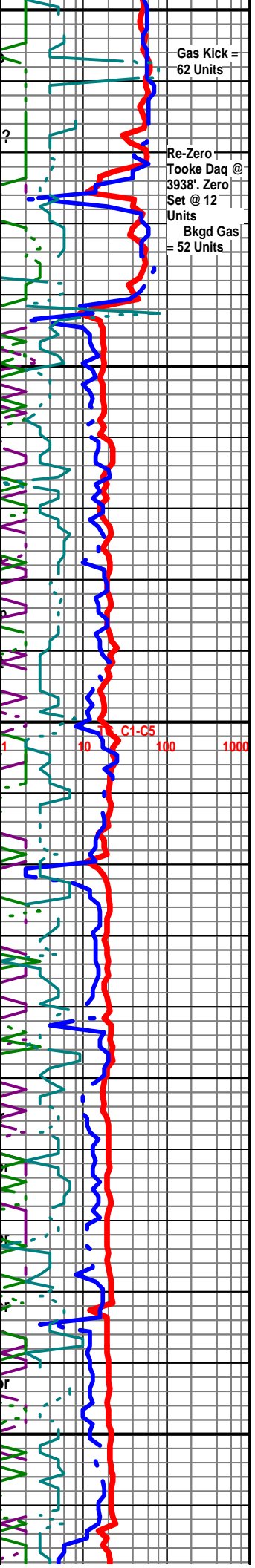
4100

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

C1-C5 1 10 100 1000



Vertical column of text describing geological and operational data for each depth interval.



Fissil No Odor No Flour N

Sk Blk Carb-Char Fissil Ls Wht-Gry FxIn AA Grad Dns Micritic AA Fos (Spic) Cht Tr Wht Op Shp Vit Fos (Spic) Chalk No Odor No Flour N

Sk Blk Carb-Char AA Fissil Ls Wht-Gry FxIn AA Grad Dns Micritic AA Cht Tr Wht Op Shp Vit Fos (Spic) Chalk No Odor No Flour NS

Ls Wht-Gry FxIn AA Grad Dns Micritic AA Fos (Brach) Cht Tr Wht Op Vit Shp Sh Blk Carb-Char AA Fissi Chalk No Odor No Flour N

HEEBNER 4153' (- 1341)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry FxIn AA Grad Dns Micritic AA Fos (Fuss) Cht Wht Op Vit Shp No Odor No Flour NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry FxIn Dns Micritic AA Fos (Fuss) Cht Wht Op Vit Shp No Odor No Flour NS

TORONTO 4171' (- 1359)

Ls Wht-Gry FxIn Dns Micritic AA Grad FxIn Fair IxIn Por Fos (Fuss) Cht Wht Op Vit Shp Sh Blk Carb-Char-Gry-Red Fissil No Odor No Flour NS

Ls Wht-Gry FxIn Dns Micritic Grad FxIn Fair IxIn Por Fos (Fuss) Cht Wht Abd Op Vit Shp Sh Dec Char-Gry Fissil No Odor No Flour N

DOUGLAS 4192' (- 1380)

Sh Blk Char-Gry-Grn Fissil Ls Wht-Gry AA FxIn Dns Micritic Grad OOL Por Poor-Fair InterOOL Por Poor Develop Poor Leaching Chalk Cht Wht Op Vit Shp No Odor No Flour NS

Sh Blk Char-Gry-Grn Fissil Ls Wht-Gry AA FxIn Dns Micritic Grad OOL Por Poor-Fair InterOOL Por Poor Develop Poor Leaching Cht Wht Op Vit Shp Chalk No Odor No Flour NS

Ls Wht-Gry FxIn Dns Micritic Tr Grad OOL Por AA Poor Develop Poor Leaching Fos (Brach) Cht Wht Op Vit Shp Chalk Sh Blk Char-Gry-Grn Fissil No Odor No Flour NS

Ls Wht-Gry FxIn Dns Micritic Tr Grad OOL Por AA Poor Develop Poor Leaching Cht Wht Op Vit Shp Chalk Sh Blk Char-Gry-Grn Fissil No Odor Sli Scat ? Min Flour NS

30" CFS @ 4256' Sh Blk Char-Gry-Grn Fissil Ls Wht-Gry FxIn Dns Micritic Grad OOL Por Inc InterOOL Por Poor -Fair Develop Poor Fair Leaching Fos Cht Wht Abd Op Vit Shp Tr Chalk No Odor Sli Scat ? Min Flour NS

LANSING 4245' (- 1433)

60" CFS @ 4256' Ls Wht-Gry FxIn Dns Micritic Grad OOL Por Inc InterOOL Por Poor -Fair Develop Poor Fair Leaching Fos Cht Wht Abd Op Vit Shp Tr Chalk Sh Blk Char-Gry-Grn Fissil No Odor Sli Scat ? Min Flour NS

Ls Wht-Crm Gry FxIn Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor - Fair Develop Poor Fair Leaching Fos Cht Wht Abd Op Vit Shp Chalk Sh Char-Gry-Blk Fissil No Odor Sli Scat ? Min Flour NS

Ls Wht-Crm Gry FxIn Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor - Fair Develop Poor Fair Leaching Fos (Crin) Cht Tan Abd Op Vit Shp Chalk Sh Char-Gry-Blk Fissil No Odor Sli Scat ? Min Flour NS

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry AA FxIn Dns Micritic Grad OOL Por Poor InterOOL Por Poor Develop Poor Leaching Cht Tan Op Vit Shp Chalk No Odor No Flour NS

Ls Wht-Crm Gry FxIn Micritic Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor - Fair Develop Poor-Fair Leaching Fos (Crin) Cht Tan Abd Op Vit Shp Chalk Sh Char-Gry Fissil No Odor Sli Scat ? Min Flour NS

Ls Wht-Crm-Gry AA FxIn Micritic Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor Develop Poor Leaching Fos (Crin) Cht Tan Abd Op Vit Shp Chalk Wht Abd Sh Char-Gry Fissil No Odor No Flour N

Ls Crm-Gry FxIn Micritic Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor - Fair Develop Poor Fair Leaching Fos (Crin) Cht Tan Abd Op Vit Shp Chalk Dec Sh Char-Gry Fissil No Odor No Flour NS

Ls Gry FxIn Micritic Grad Dns Cht Tan-Char-Gry Abd Op Vit Shp Chalk Wht Dec Sh Char-Gry Fissil No Odor Sli No Flour N

Ls Gry Abd FxIn Micritic Grad Dns Cht Char-Gry Abd Op Vit Shp Chalk Wht Dec Sh Char-Gry Fissil No Odor Sli No Flour N

Re-Zero Tooke Daq @ 4135'. Zero Set @ 12 Units. Bkgd Gas = 20 Units

Shale Gas Kick = 52 Units

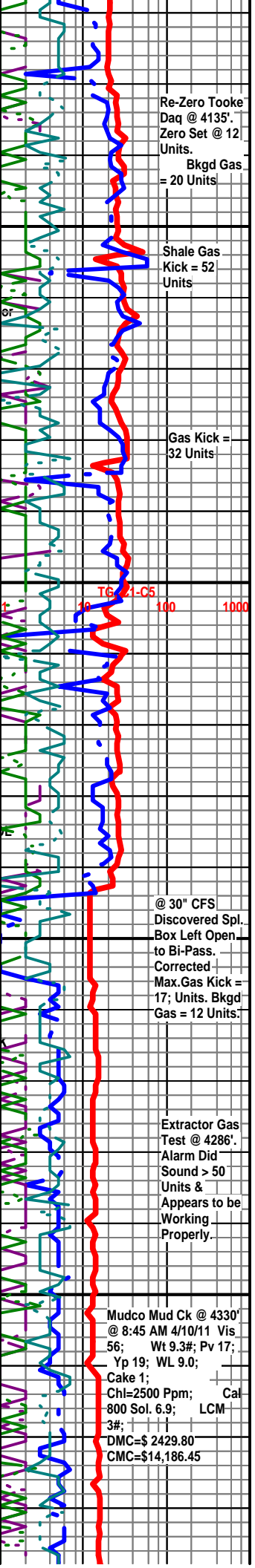
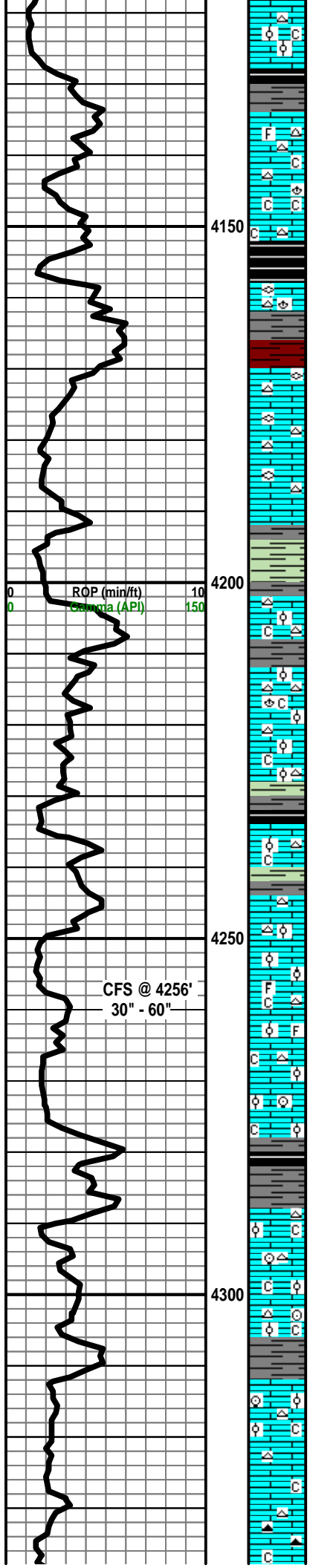
Gas Kick = 32 Units

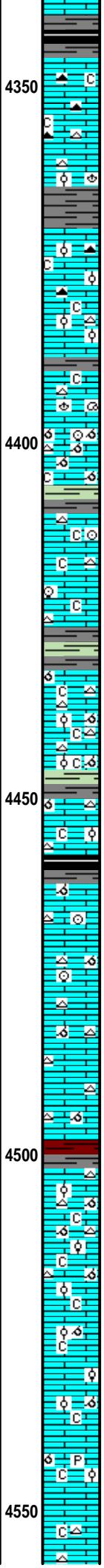
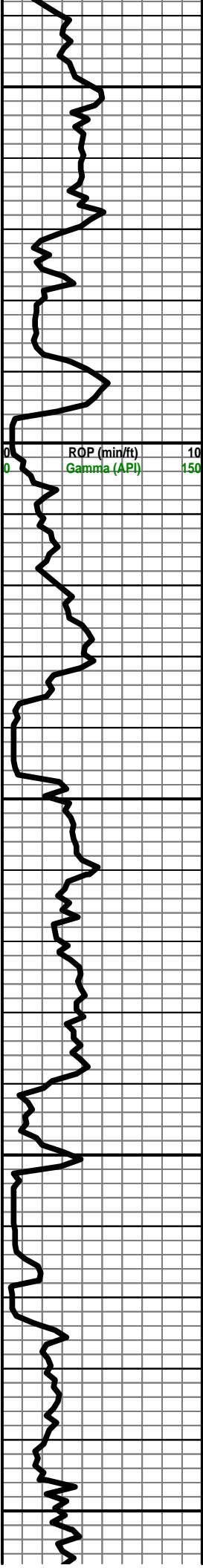
TG 21-C5 100 1000

@ 30" CFS Discovered Spl. Box Left Open to Bi-Pass. Corrected Max. Gas Kick = 17; Units. Bkgd Gas = 12 Units.

Extractor Gas Test @ 4286'. Alarm Did Sound > 50 Units & Appears to be Working Properly.

Mudco Mud Ck @ 4330' @ 8:45 AM 4/10/11 Vis 56; Wt 9.3#; Pv 17; Yp 19; WL 9.0; Cake 1; Chl=2500 Ppm; Cal 800 Sol. 6.9; LCM 3#; DMC=\$ 2429.80 CMC=\$14,186.45





Ls Gry Abd FxIn Micritic Grad Dns Cht Char-Gry Abd Op Vit Shp Chalk Wht Dec
Sh Abd Char-Gry-Blk Carb Fissil No Odor Sli No Flour N

Ls Gry Abd FxIn Micritic Grad Dns Cht Char-Gry Abd Op Vit Shp Chalk Wht Dec
Sh Abd Char-Gry-Blk Carb Fissil No Odor Sli No Flour NS

Ls Crm-Gry FxIn Micritic Grad OOL Por Inc Poor-Fair IxIn-InterOOL Por Poor -
Fair Develop Poor-Fair Leaching Fos (Brach) Cht Tan Abd Op Vit Shp Chalk Dec
Sh Char-Gry Fissil No Odor No Flour N:

Ls Crm-Gry Grad Dec OOL Por Inc Poor IxIn-InterOOL Por Poor Develop Poor
Leaching Grad Micritic FxIn Dns Cht Char-Blk Op Vit Shp Fos (Fuss) Chalk Dec
Sh Char-Gry Fissil No Odor No Flour NS

Ls Wht-Crm-Gry FxIn Micritic Grad Tr/OOL Por w/ Poor-Fair IxIn-InterOOL Por
Poor Develop Poor Leaching Cht Gry Op Vit Shp Chalk Wht Sh Char-Gry Fissil
No Odor No Flour NS

Ls Crm FxIn Micritic Grad OOM Por Med-Lg Vugs w/OOL in Pl Fair-Good
IxIn-Inter OOM Por Fair-Good Develop Fair-Good Leaching Fos (Gastro, Crin)
Cht Gry Op Vit Shp Chalk Wht Abd Sh Char-Gry-Grn Fissil No Odor Sli ? Min
Flour NS

Ls Crm-Gry FxIn Micritic Dns Cht Gry Op Vit Shp Fos (Crin) Chalk Wht Inc Sh
Char-Gry -Grn Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic Dns Cht Gry Op Vit Shp Fos (Crin) Chalk Wht Inc Sh
Char-Gry -Grn Fissil No Odor No Flour NS

Ls Crm OOM Por Lg Deep Vugs w/OOL in pl Poor- Good Inter OOM Por Good
Develop Good Leaching (Poor Inter-Connect OOM Por) Cht Wht Gry-Wht Op Vit
Shp Tr Chalk Wh Sh Char-Gry-Grn Fissil No Odor Sli ? Min Flour NS

Ls Crm OOM Por Lg Deep Vugs w/OOL in pl Poor- Good Inter OOM Por Grad FxIn
Micrite Cht Wht Gry-Wht Op Vit Shp Tr Chalk Wh Sh Char-Gry-Grn Fissil No Odor
Sli ? Min Flour NS

Ls Crm-Gry FxIn Micritic Inc Dns Tr OOM AA Dec Por Deep Vugs w/OOL in pl
Poor- Good InterOOM Por Cht Gry Op Vit Shp Chalk Wht Inc Sh Char-Gry -Grn
Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic Inc Dns Sli Tr OOM AA Dec Por Deep Vugs w/OOL in pl
Poor- Good InterOOM Por Cht Gry Op Vit Shp Fos (Crin) Chalk Wht Inc Sh
Char-Gry -Grn Fissil No Odor No Flour NS

Ls Crm-Gry FxIn Micritic Inc Dns Sli Tr OOM AA Dec (Few Pcs) Cht Gry Op Vit
Shp Fos (Crin) Chalk Wht Inc Sh Char-Gry -Grn Fissil No Odor No Flour NS

Ls Gry-Crm FxIn Micritic Inc Dns Sli Tr OOM AA Dec (Few Pcs) Cht Gry Op Vit
Shp Chalk Wht Inc Sh Char-Gry -Grn Fissil No Odor No Flour NS

Ls Gry-Crm FxIn Micritic AA Chalk Wht V Abd Inc Sli Tr OOM AA Dec (Few
Pcs) Cht Gry Op Vit Shp Chalk Sh Char-Gry -Grn Fissil No Odor No Flour NS

Ls Crm OOM Por Lg Deep Vugs w/OOL in pl Poor- Good Inter OOM Por Good
Develop Good Leaching (Poor Inter-Connect OOM Por) Cht Wht Gry-Wht Op Vit
Shp Sli Tr Chalk Wh Sh Gry-Red Fissil No Odor Sli ? Min Flour NS

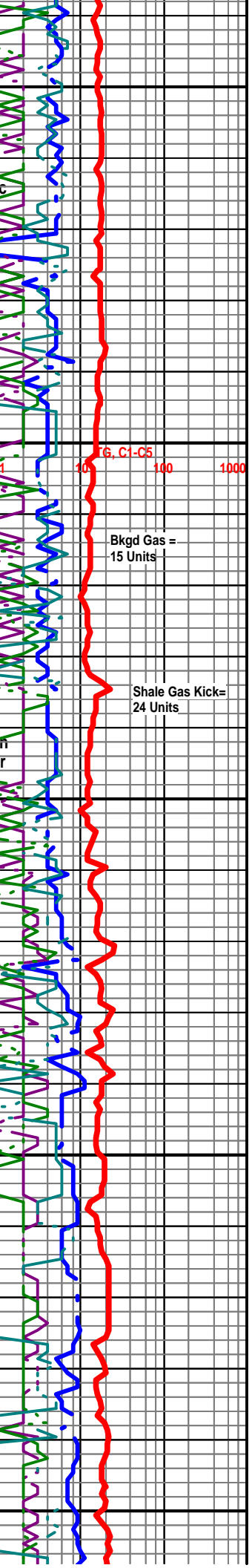
Ls Crm OOM Por Lg Deep Vugs w/OOL in pl Poor- Good Inter OOM Por Good
Develop Good Leaching (Poor Inter-Connect OOM Por) Cht Wht Gry-Wht Op Vit
Shp Sli Tr Chalk Wh Sh Gry-Red Fissil No Odor Sli ? Min Flour NS

Ls Crm FxIn Micritic Dns Sli Tr OOM AA Dec Chalk Wht Abd Sh Char-Gry -Grn
Fissil No Odor No Flour NS

Ls Crm FxIn Micritic Dns Sli Tr OOM AA Dec Chalk Wht Abd Sh Char-Gry -Grn
Fissil No Odor No Flour NS

Ls Crm FxIn Micritic Dns Sli Tr OOM AA Dec Chalk Wht Abd Sh Char-Gry -Grn
w/Pyr Inclu Fissil No Odor Sil ? Min Flour NS

Ls Gry FxIn Micritic Dns Cht Gry-Brn Op Shp-Vit Chalk Wht Abd Sh Char-Gry
-Grn Fissil No Odor Sil ? Min Flour NS



Ls Wht-Crm FxIn Micritic Dns Cht Gry-Grn Op Shp-Vit Chalk Wht Abd Sh
Char-Gry -Grn Fissil No Odor Sil ? Min Flour NS

Ls Wht-Crm FxIn Micritic Dns Cht Gry-Grn Op Shp-Vit Chalk Wht Abd Sh
Char-Gry -Grn Fissil No Odor Sil ? Min Flour NS

STARK 4587' (- 1775)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry AA FxIn Dns Micritic Cht Tan Op Vit Shp Chalk No Odor No
Flour NS

SWOPE 4590' (- 1778)

Ls Wht-Crm FxIn Micritic Dns Cht Gry-Grn Op Shp-Vit Chalk Wht Abd Sh
Char-Gry -Grn Fissil No Odor Sil ? Flour NS

Ls Wht-Crm FxIn Micritic Dns Cht Gry-Olive Op Shp-Vit Chalk Wht Abd Sh
Char-Gry -Grn Fissil Fair-Good Odor Sil ? Flour NS

Ls Wht-Crm FxIn Micritic Dns Cht Gry-Olive Op Shp-Vit Chalk Wht Abd Sh
Char-Gry -Grn Abd Inc Fissil Fair-Good Odor Sil ? Flour N

HUSHPUCKNEY SHALE 4630' -1818)

Sh Blk Carb-Char-Gry Fissil Ls Wht-Gry AA FxIn Dns Micritic Grad Fair-Good OOM Por Cht Gry Ded
(1 Pc) Op Vit Shp Chalk No Odor Sil ? Min Flour NS

HERTHA 4638' (- 1826)

Ls Wht FxIn Micritic Dns Grad OOM Por w/OOL in pl No Vis Por No-Poor
Leaching Por Poor Develop Cht Gry Op Shp-Vit Chalk Wht Abd Sh Blk Carb AA
Char-Gry -Red Fissil No Odor V Sil Tr ? Flour NS

Ls Wht FxIn Micritic AA Dns Cht Gry Op Shp-Vit Chalk Wht AA Sh Inc AA
Char-Gry -Red-Grn Fissil No Odor No Flour NS

Ls Wht FxIn Micritic AA Dns Cht Gry Op Shp-Vit Chalk Wht AA Sh AA Inc AA
Char-Gry -Red-Grn Fissil No Odor No Flour NS

Sh AA Inc AA Char-Gry -Red-Grn Fissil Ls Wht FxIn Micritic AA Dns Cht Gry
Op Shp-Vit Chalk Wht AA No Odor No Flour NS

BASE KANSAS CITY SHALE 4676' (- 1864)

Ls Wht FxIn Micritic AA Dns Tr OOM Por Poor InterOOM Por Poor Leaching Cht
Gry-Drk Gry Op Shp-Vit Chalk Wht AA Sh AA Inc AA Char-Gry -Red-Grn Fissil
No Odor No Flour NS

Ls Crm-Gry FxIn Dns Micrite Grad OOM Por Poor-Develop-Poor Dis Poor
Leaching Chalk Wht V Abd Cht Tan-Gry Op Shp Vit Sh Char Gry Fissil No Odor
No Stn No Flor NS

Ls Crm-Gry FxIn Dns Micrite Grad OOM Por Poor-Develop-Poor Dis Poor
Leaching Chalk Wht V Abd Cht Tan-Gry Op Shp Vit Sh Char Gry Fissil No Odor
No Stn No Flor NS

Sh Char-Gry Fissil V Abd (95% of Spl) Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op
Shp Vit Chalk Wht Tr No odor no flor No Stn NS

Sh Char-Gry Fissil V Abd AA Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op Shp Vit
Chalk Wht Tr No Odor No Flor No Stn NS

Sh Char-Gry Fissil V Abd AA) Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op Shp Vit
Chalk Wht Tr No Odor No Flor No Stn NS

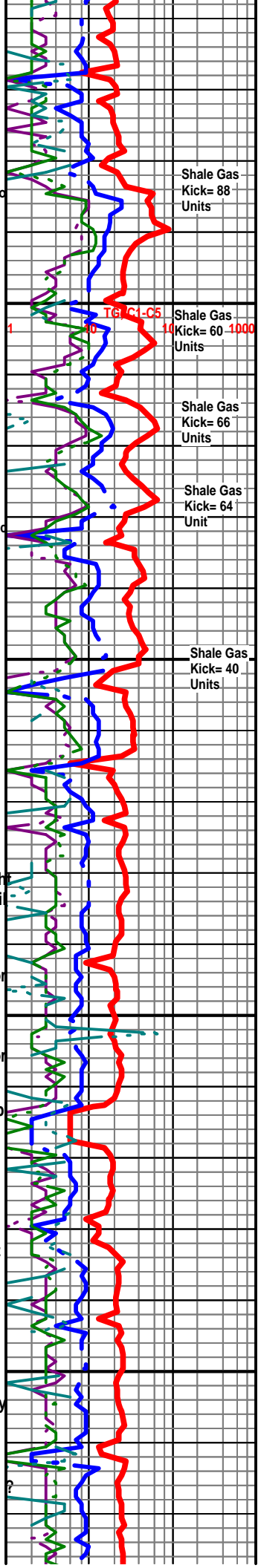
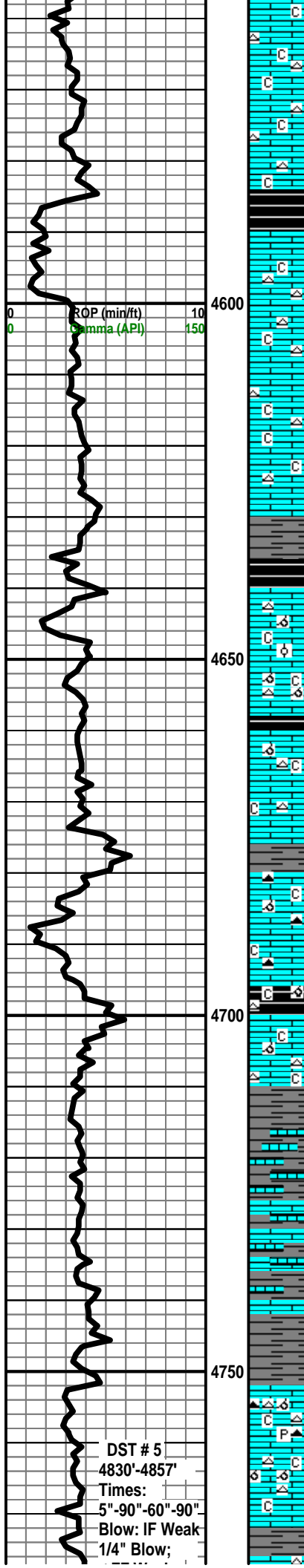
Sh Char-Gry Fissil V Abd Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op Shp Vit
Chalk Wht Tr No Odor No Flor No Stn NS

MARMATON 4752' (- 1940)

Ls Crm- FxIn Dns Micrite No-Poor IxIn Por w/ Pry Inlus Chalk Wht Cht Drk Gry
Op Shp Vit Sh Char Gry-Grn Fissil AA No Odor No Stn Tr Sil ? Min Flor (Few
Pcs) NS

Ls Crm- FxIn Dns Micrite Grad Poor IxIn Por w/Tr Pry Inlus Chalk AA Wht Cht
Wht Op Shp Vit Fos (? Byr) Sh Char Gry-Grn Fissil AA No Odor No Stn Tr Sil
Min Flor (Few Pcs) NS

Ls Crm- FxIn Dns Micrite Grad Poor IxIn Por w/Tr Pry Inlus Chalk AA Wht Cht
Wht Op Shp Vit Fos (? Bvr) Sh Char Gry-Grn Fissil AA No Odor No Stn Tr Sil



DST # 5
4830'-4857'
Times:
5"-90"-60"-90"
Blow: IF Weak
1/4" Blow;

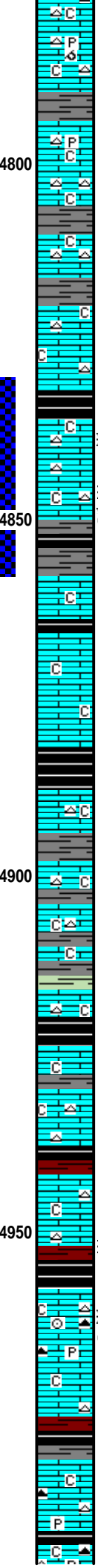
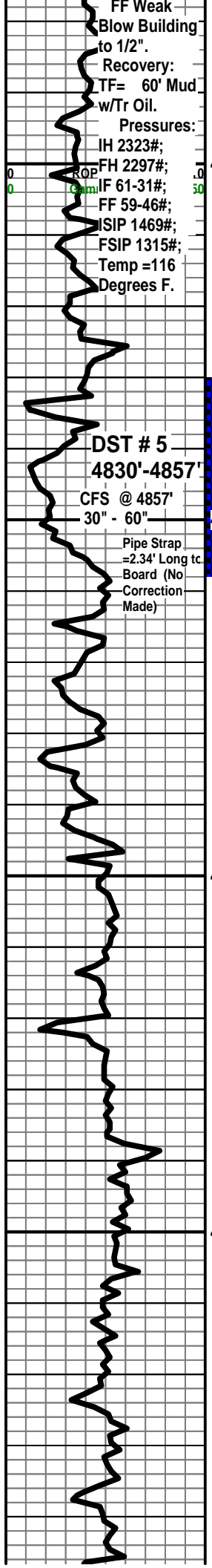
Shale Gas
Kick= 88
Units

Shale Gas
Kick= 60
Units

Shale Gas
Kick= 66
Units

Shale Gas
Kick= 64
Unit

Shale Gas
Kick= 40
Units



FF Weak
Blow Building to 1/2".
Recovery:
TF= 60' Mud w/Tr Oil.
Pressures:
IH 2323#;
FH 2297#;
IF 61-31#;
FF 59-46#;
SIP 1469#;
FSIP 1315#;
Temp =116 Degrees F.

Ls Crm- FxIn Dns Micrite Grad Poor IxIn Por w/Tr Pry Includ Chalk AA Wht Cht Wht Op Shp Vit Fos (? Byr) Sh Char Gry-Grn Fissil AA No Odor No Stn Tr Sli Min Flor (Few Pcs) NS

Ls Crm- FxIn Dns Micrite Grad Poor IxIn Por w/Tr Pry Includ Chalk AA Wht Cht Wht Op Shp Vit Fos (? Byr) Sh Char Gry-Grn Fissil AA No Odor No Stn Tr Sli Min Flor (Few Pcs) NS

Sh Char-Gry Fissil V Abd Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op Shp Vit Chalk Wht Tr No Odor No Flor No Stn NS

Sh Blk Carb Char-Gry Fissil V Abd Tr Ls Crm-Gry V FxIn Micritic Cht Wht Op Shp Vit Chalk Wht Tr No Odor No Flor No Stn NS

Ls Crm- FxIn Dns Micrite Chalk AA Wht Cht Wht Op Shp Vit Sh Char Gry-Grn Fissil AA No Odor No Stn No Flor NS

Pawnee 4838' (- 2026)

30" CFS @ 4857' Ls Wht Fair-Med FxIn Por w/ Fair IxIn Develop (?) Frac Por Tr ? Dead Oil Stn w/ Strong Odor w/ SG/SO Chalk Cht Wht Trip Gillsonitic residue w/ Fair-Good SG/SO Fair Flor Fair Sat Stn Fair Scatt Sat Flor Fair SG/SO

60" CFS @ 4857' Ls Wht Fair-Med FxIn Por w/ Fair IxIn Develop (?) Frac Por Tr ? Dead Oil Stn w/ Strong Odor w/ SG/SO w/ SFO (Lt Grn> 35 API Gv) Chalk Cht Wht Trip Gillsonitic AA w/ Fair-Good SG/SO Sh Blk Carb Fissil Inc Abd Good Flor Fair-Good Scat Stn Fair Fair-Good SG/SO

Ls Gry-Crm FxIn Dns Micrite Grad Poor IxIn Por Chalk AA Wht Sh Blk Carb Abd -Char Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Micrite Grad Poor-No Vis IxIn Por Chalk AA Wht Sh Blk Carb Tr -Char- Gry Tr Fissil No Odor No Stn No Flor NS

Cherokee 4883' (- 2071')

Sh Blk Carb Abd -Char Gry Fissil Ls Wht-Crm FxIn Dns Micrite Grad Tr Poor OC Por No Dis No InterOOM Por Chalk AA Wht Cht Tan w/ Abd OOL in pl w/ Fos (Spic) No Vis Por No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Micrite No Vis Por Chalk AA Wht Cht Tan-Gry Sh Blk Carb AA-Char Gry Fissil No Vis Por No Odor No Stn No Flor NS

Ls Gry FxIn Dns Micrite No Vis Por Chalk AA Wht Cht Wht Sh Char- Abd Gry Fissil No Vis Por No Odor No Stn No Flor NS

Ls Wht-Crm FxIn Dns Micrite No Vis Por Chalk AA Wht Cht Tan-Gry Sh Blk Carb Abd-Char Gry Fissil No Vis Por No Odor No Stn No Flor NS

Sh Blk Carb Abd -Char Gry Fissil Ls AA Dns Micrite Grad Chalk AA Wht No Vis Por No Odor No Stn No Flor NS

Ls Wht-Gry-Crm FxIn Dns Micrite Grad No Vis IxIn Por Chalk AA Wht Cht Tan Op/Translu Shp Vit Sh Blk Carb Abd -Char-Gry-Aqua Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Crm FxIn Dns Micrite Grad No Vis IxIn Por Chalk AA Wht Cht Tan Op/Translu Shp Vit Sh Blk Carb Abd -Char-Gry-Red Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Crm FxIn Dns Micrite Grad Poor IxIn Por w/tr VSSG (3 Pcs) Chalk AA Wht Sh Blk Carb / -Char-Gry-Red Fissil No Odor Tr Scatt ? Stn (Lt Brn) Scat ? Min Flor VSSG

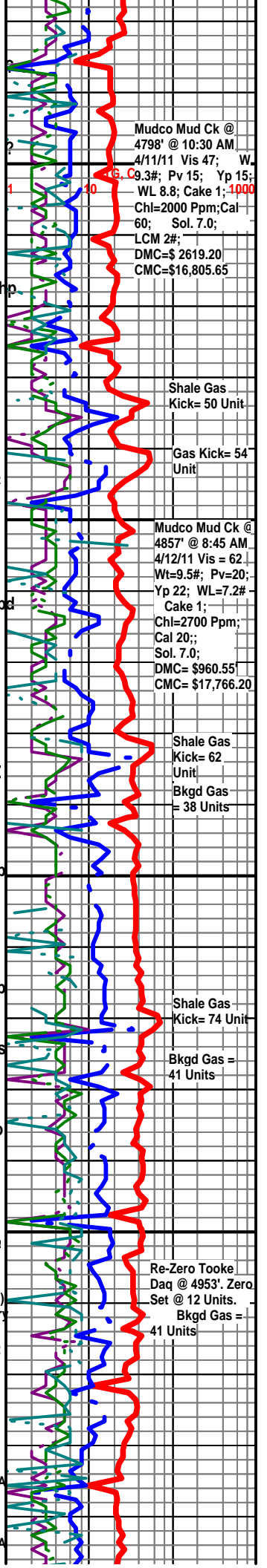
Ls Wht-Gry-Crm FxIn Dns Micrite Grad Poor-Fair IxIn Por w/tr Poor-Fair Vug Leaching VSSG (2 Pcs) Chalk AA Wht Cht Tan-Amber Op/Translu Shp Vit Fos (Crin) Tr Pyr Includ Sh Blk Carb AA -Char-Gry Fissil No Odor Tr Scatt ? Stn (Lt Brn) Scat ? Min Flor VSSG

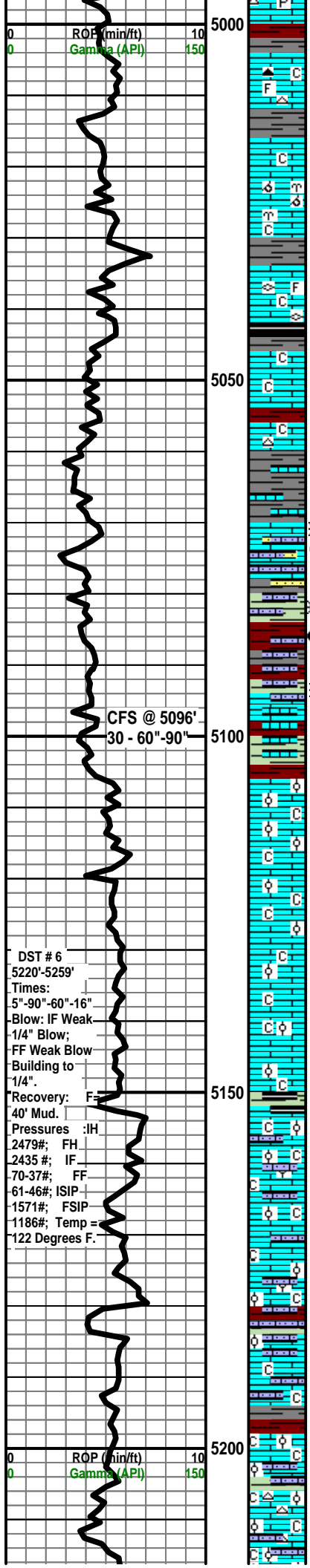
Ls Wht-Crm-Tan AA FxIn Dns Micrite Grad Poor-Fair IxIn Por w/tr Poor-Fair Vug Leaching VSSG (2 Pcs) Chalk AA Wht Cht Tan-Amber Op/Translu Shp Vit Fos (Crin) Tr Pyr Includ Sh Blk Carb AA Inc -Char-Gry-Red Fissil No Odor Tr Scatt ? Stn (Lt Brn) Scat ? Min Flor VSSG

Ls Wht-FxIn w/OOL (Small) in pl Fair-Med IxIn Por "Sandy" Fair-Good Pin-Pt Por Friable Tr Ls FxIn Dns Micrite Sh Red- Gry-Pale Grn Abd Fissil No Odor No Flor No Stn No Stn NS

Ls Wht-Crm-Tan AA FxIn Dns Micrite Grad Poor-Fair IxIn Por w/tr Poor-Fair Vug Leaching Chalk AA Wht Cht Tan-Amber Abd Op-Translu Shp Vit Tr Pyr Includ Sh Blk Carb Char-Gry Fissil No Odor Tr Scatt ? Stn (1 Pcs- Lt Brn) Scat ? Min Flor ? NS

Ls Wht-Crm-Tan AA FxIn Dns Micrite Grad Poor-Fair IxIn Por w/tr Poor-Fair Vug Leaching Chalk AA Wht Cht Tan-Amber Abd Op-Translu Shp Vit Tr Pyr Includ Sh Blk Carb Char-Gry Fissil No Odor No





Scat No Flor NS

Ls Wht-Gry-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Poor Ixln Por Chalk AA Wht Cht Tan-Amber Op/Translu Shp Vit Sh Char-Gry-Red w/Tr Fos (Spic Includ Cht) Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Poor Ixln Pin-Pt Por Chalk AA Wht Sh Blk Carb Fissil No Odor No Stn No Flor NS

Ls Wht-Gry-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Poor Ixln Pin-Pt Por Tr Poor OOM Por Poor -Fair Develop Poor Leching Chalk AA Wht Sh Char Fos (Bry ?) Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Poor Ixln Pin-Pt Por Chalk AA Wht Cht Tan Transl/Op Shp Vit Fos (Spic, Fuss) Sh Char Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Poor Ixln Pin-Pt Por Chalk AA Wht Cht Blk Op Shp Vit Sh Blk Carb-Char-Grn Fissil No Odor No Stn No Flor NS

Ls Wht-Crm Fxln Dns Micrite Grad Poor-Fair Ixln Por Fair Ixln Pin-Pt Por w/ Fair SG Fair-Med Sat Str (2 Pcs) F-Good SG Fair Sat Stn (Lt Brn) Chalk AA Sh Char-Red Fissil No Odor Tr Brn Stn No Flor SSG

MORROW SHALE 5062' (- 2250)

Sh Carb Inc -Char-Gry Fissil Ls Wht-Gry-Crm Fxln Dns Micrite Grad No Vis Ixln Por Chalk AA Wht Cht Tan Op/Translu Shp Vit No Odor No Stn No Flor NS

Ls Wht-Pale Grn Fxln w/OOL (Small in pl) Fair-Med Ixln Por "Sandy" Fair-Good Pin-Pt Por w/ Fair-Good Even Stn (Lt-Brn) Fair-Med SG/SO In Ls AA Friable Tr Ls Fxln Dns Micrite Sh Char tr/Pale Grn tr/Red Fissil-Soft Faint Odor Sli Tr Scat Flor Fair SG/SO

30" CFS @ 5096' Sh Char-Gry-Grn-Red Abd Fissil-Soft (Wash Red) Ls Wht-Pale Grn Fxln w/OOL (Small) in pl Fair-Med Ixln Por "Sandy" Friable Fair-Good Pin-Pt Por AA Tr Ls Fxln Dns Micrite Cht Tan Transl Shp Vit No Odor No Stn No Flor NS

60" CFS @ 5096' Sh Char-Gry-Grn-Red Abd Fissil-Soft (Wash Red) Ls Wht-Pale Grn Fxln w/OOL (Small) in pl Fair-Med Ixln Por "Sandy" Fair-Good Pin-Pt Por w/Fair-Med Ixln Por W/SG/SFO AA Tr Ls Fxln Dns Micrite Cht Tan Transl Shp Vit No Odor No Flor SSG/SO

90" CFS @ 5096' Sh Char-Gry-Grn-Red-Pale Grn Abd Fissil-Soft (Wash Red) AA Ls Wht-Pale Grn Fxln w/OOL (Small) in pl Fair-Med Ixln Por "Sandy" Fair-Good Pin-Pt Por w/Fair-Med Ixln Por W/Tr Dec SG/SFO AA Fos Tr Ls Fxln Dns Micrite Cht Tan Transl Shp Vit No Odor No Flor VSSG/SO

MISSISSIPPIAN ST. GEN 5105' (- 2293)

Ls Wht-Fxln w/OOL (Small) in pl Fair-Med Ixln Por "Sandy" Fair-Good Pin-Pt Por Friable Tr Ls Fxln Dns Micrite Sh Red- Gry-Pale Grn Abd Fissil No Odor No Flor No Stn NS

Ls Wht-Fxln w/OOL (Small) in pl Fair-Med Ixln Por "Sandy" Fair-Good Pin-Pt Por Friable Tr Ls Fxln Dns Micrite Sh Red- Gry-Pale Grn Abd Fissil No Odor No Flor No Stn NS

Ls Wht-Fxln w/Tr OOL (V Small) in pl Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable Chalk Sh Tr Only Red- Char-Gry Fissil-Soft Dec No Odor No Flor No Stn NS

Ls Wht-Fxln w/Tr OOL (V Small) in pl Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable Grad Micritic Poor Fxln Por Chalk Sh Tr Only Red- Char-Gry Fissil-Soft Dec No Odor No Flor No Stn NS

Ls Wht-Fxln w/Tr Dec OOL (V Small) in pl Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable Grad Inc Micritic Poor Fxln Por Chalk Sh Pale Grn-Red-Blk Carb Fissil-Soft Dec No Odor No Flor No Stn NS

Ls Wht-Fxln w/Tr Dec OOL (V Small) in pl Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable Grad Inc Micritic Poor Fxln Por Chalk Sh Pale Grn-Red-Blk Carb-Red Fissil-Soft Dec No Odor No Flor No Stn NS

Ls Wht-Fxln Grad Inc Micritic Poor Fxln Por w/Tr OOL AA (V Small) in pl Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable w/ VSII Tr SO Stn (1 Pc) w/ Lt Brn Stn w/ tr/SO w/ Broken Chalk Sh Pale Grn-Red Fissil-Soft Dec No Odor No Flor Stn (on 1 pc) VSSO

Ls Wht-Gry Fxln Micritic Dns-V Poor Fxln Por w/Tr Dec OOL (V Small OOL in pl) Poor Ixln Por "Sandy" Poor Dec Pin-Pt Ixln Por Tr/Friable Chalk Sh Pale Grn- Aqua- Char- Red Inc Fissil-Soft Dec No Odor No Stn Flor NS

Ls Wht-Gry Fxln Micritic Dns-V Poor Fxln Por w/Tr Dec OOL (V Small OOL in pl) Poor Ixln Por "Sandy" Poor Dec Pin-Pt Ixln Por Tr/Friable Tr/ Chalk Sh Pale Grn--Red (Tr Only) Fissil-Soft Dec No Odor No Stn Flor NS

ST. LOUIS 5186' (- 2374)

Ls Wht-Fxln w/Tr OOL (V Small in pl) Fair Ixln Por "Sandy" Fair Pin-Pt Ixln Por Friable Dns Micritic AA Poor Fxln Por Chalk Sh Red- Char Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Fxln w/OOL (Small/Med Inc in pl) Fair Ixln Por "Sandy" Poor Dis Poor Devel Tr/Fair Pin-Pt Ixln Por Inc Friable Tr/ Dns Micritic AA Poor Fxln Por Chalk Sh Blk Char-Red-Grn Tr Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Fxln w/OOL (Med Inc in size in pl) Fair Inc Ixln Por "Sandy" Poor-Fair Dis Fair Devel Tr/Fair Pin-Pt Ixln Por Inc Friable Tr/ Dns Micritic AA Cht Wht-Gry w/OOL in pl Op-Transl No Vis Por Shp Vit Tr Chalk Sh Gry-Grn-Red Tr Fissil-Soft No Odor No Flor No Stn NS

Bkgd Gas = 24 Units

Shale Gas Kick= 27 Units

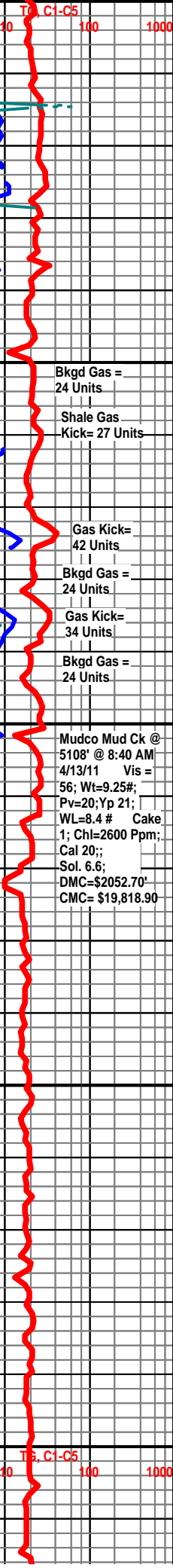
Gas Kick= 42 Units

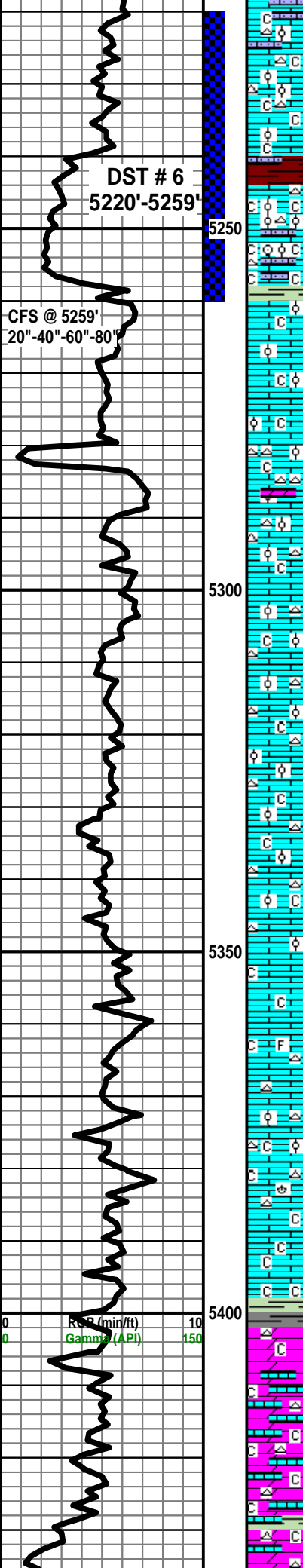
Bkgd Gas = 24 Units

Gas Kick= 34 Units

Bkgd Gas = 24 Units

Mudco Mud Ck @ 5108' @ 8:40 AM 4/13/11 Vis = 56; Wt=9.25#; Pv=20; Yp 21; WL=8.4 # Cake 1; Chl=2600 Ppm; Cal 20;; Sol. 6.6; DMC=\$2052.70 CMC= \$19,818.90





Ls Wht-Fxln w/OOL (Med Inc in size in pl) Fair Inc lxn Por "Sandy" Poor-Fair Dis Fair Devel Tr/Fair Pin-Pt lxn Por Inc Friable Tr/ Dns Micritic AA Cht Wht-Gry Inc w/OOL (some w/ Blk ? Inclu "Salt & Pepper" in pl Op-Transl No Vis Por Shp Vit Tr Chalk Sh Gry-Grn-Red Tr Fissil-Soft No Odor No Flor No Stn NS

Ls Wht-Fxln w/OOL (Med-Lg in size & in pl) Fair Inc lxn Por -Fair Dis Fair-Med Devel Friable w/ V Sli Scat Stn (Lt Brn) w/ Sli ? SG w/wheat) Tr/ Dns Micritic AA Cht Gry-Tan w/OOL AA Op Poor Vis Por Sh Vit Tr Chalk Inc Abd Sh Red-"Drab" Grn Inc Abd Fissil-Soft No Odor No Flor ? Dead Srn Lt Brn Stn Tr/V Sli Show

St. Louis "B" Por 5244' (- 2432)

20" CFS @ 5259' Chalk Wht V Abd (60% of Spl) Ls Wht Fair-Med OOL Por w/OOL in PI Poor-Fair Dis Cht Tan-Gry Banded Op Shp Vit AA Sh-AA Dec No Odor No Stn No Flor NS. @ 40" CFS @ 5259' Chalk Wht V Abd (25% of Spl) Ls Wht Fair-Med OOL Por w/OOL in PI Poor-Fair Dis Grad Ls Gry-Wht Fxln Gran Pin-Pt Por "Sandy Friable Ls AA" Cht Tan-Gry Banded Op Shp Vit AA Sh Char-Grn-Red Tr AA No Odor No Flor No Stn NS.

@ 60" CFS @ 5259' Ls Gry-Wht V Fxln Gran Pin-Pt Por "Sandy Friable (60% of Spl) Cht Tan-Gry Op Shp Vit AA Chalk Wht V Abd (15% of Spl) Ls Wht Fair-Med OOL Por w/OOL in pl Poor-Fair Dis (15% of Spl) Cht Tan-Gry AA Op Shp Vit w/Fos (Crin) (5% of Spl) Sh Char-Grn-Red (5% of Spl) No Odor No Flor No Stn No Odor No Flor No Stn NS.

80" CFS @ 5259' Ls Gry-Wht V Fxln Gran Pin-Pt Por "Sandy Friable (40% of Spl) Chalk Wht V Abd (25% of Spl) Ls Wht Fair-Med OOL Por w/OOL in PI Poor-Fair Dis (25% of Spl w/1 Pc w/ Lt Brn "Dead" Stn (w/tr Poor 1 pc V Sli Sat Stn) Cht Tan-Gry Op Shp Vit (5% of Spl) Sh Char-Grn-Red (5% of Spl) No Odor No Flor No Odor No Flor NS

ST. LOUIS LWR "B" POR 5282- (- 2470)

Ls Wht-Crm Fxln Gran OOL Poor-Fair-Med Size OOL Por w/OOL in PI Poor-Fair Inter OOL Por Friable Dis "Sandy" (40% of Spl) Grad Fxln Poor-Fair lxn Por (30% of Spl) Chalk AA Dec Wht (20% of Spl) Cht Wht Op/Transl Shp Vit (5% of Spl) Tr Ls/Dolo Gry Fxln Poor lxn Por Tr Only (4% of Spl) Sh Char-Grn-Red (3% of Spl) of Spl) No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Gran Fxln Poor-Fair lxn Por (45% of Sp) Grad OOLw/Poor-Fair-Med Size OOL Por w/OOL in pl Poor-Fair Inter OOL Por Friable "Sandy" (30% of Spl) Poor Dis Chalk AA Dec Wht (15% of Spl) Cht Wht Op/Transl Shp Vit (5% of Spl) Sh Char-Red-Blk Carb (5% of Spl) No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Gran Fxln Poor-Fair lxn Por AA Grad OOLw/Poor-Fair-Med Size OOL Por w/OOL in pl Poor-Fair Inter OOL Por Friable "Sandy" Poor Dis Chalk AA Dec Wht Cht Wht Op/Transl Shp Vit Sh Char-Red-Blk Carb No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Gran Fxln Poor-Fair lxn Por AA Grad OOLw/Poor-Fair-Med Size OOL Por w/OOL in pl Poor-Fair Inter OOL Por Friable "Sandy" Poor Dis Chalk AA Dec Wht Cht Wht Op/Transl Shp Vit (5% of Spl) Sh Char-Red-Blk Carb (5% of No Odor No Flor No Stn NS

Ls Wht-Crm Fxln Gran Fxln Poor-Fair lxn Por AA Grad OOLw/Poor-Fair OOL Por Poor-Fair Inter OOL Por Friable "Sandy" Dec AA Poor Dis Chalk AA Dec Wht Cht Amber Op/Transl Shp Vit Dec Sh Char-Red-Aqua- No Odor No Flor No Stn NS

Ls Wht-Crm AA Fxln Gran Fxln Poor-Fair lxn Por Grad OOLw/Poor-Fair OOL Por Poor-Fair Inter OOL Por Friable "Sandy" Dec AA Poor Dis Chalk AA Dec Wht Cht Amber Op/Transl Shp Vit Dec Sh Char-Aqua-Red-Blk Carb AA No Odor No Flor No Stn N

Ls Wht-Crm AA Fxln Gran Fxln Poor-Fair lxn Por Grad OOLw/Poor-Fair OOL Por Poor-Fair Inter OOL Por Friable "Sandy" Dec AA Poor Dis Chalk AA Dec Wht Cht Amber Op/Transl Shp Vit Dec Sh Char-Aqua-Red- Blk Carb Fissil No Odor No Flor No Stn NS

Ls Wht-Crm AA Fxln Gran Fxln Micritic Poor-Fair lxn Por AA Chalk Wht Inc Sh Char-Red Fissil-Soft No Odor No Flor No Stn N

Ls Wht Crm Fxln Micritic Poor-Fair lxn Por Chalk Wht Inc AA Cht "Smoky" Gry Op/Transl Shp Vit Fos ? Sh Char-Grn-Red Fissil-Soft No Odor No Flor No Stn NS

Ls Wht Crm Fxln Micritic Poor-Fair lxn Por Chalk Wht Inc AA Cht Wht- "Smoky" Gry w Tr OOL Inclns Op Shp Vit Chalk Sh Char-Grn- Fissil-Soft No Odor No Flor No Stn NS

Ls Wht Crm Fxln Micritic Poor-Fair lxn Por Chalk Wht Inc AA Cht Wht- "Smoky" Gry Op Shp Vit Chalk Fos (Brach) Sh Tr Red-Grn-Gry Dec Fissil-Soft No Odor No Flor No Stn NS

Ls Wht Crm Fxln Micritic Poor-Fair lxn Por Cht Wht-Gry Op Shp Vit Chalk AA Sh Tr Red-Grn-Gry Fissil-Soft No Odor No Flor No Stn N

Ls Wht Crm Fxln Micritic Poor-Fair lxn Por Cht Wht-Gry Op Shp Vit Chalk AA Sh Tr Red-Grn-Gry Fissil-Soft No Odor No Flor No Stn NS

SALEM (SPERGEN) 5404' (- 2592)

Dolo Tan-Brn Fxln Dns Micritic "Blocky No Vis Por Assoc w/ LS Crm-Tan Grad Tan AA Fxln OOL Por w/ OOL in pl Poor Inter OOL Por Grad to Fxln Dns Micritic Cht Wht OP Shp Vit Chalk Wht Sh Pale-Drab Grn-Tr Red Fissil-Soft No Odor No Flor No Dtn NS

Dolo Tan-Brn Fxln Dns Micrite "Blocky No Vis Por Assoc w/ LS Crm-Tan Grad Tab AA Fxln OOL Por w/ OOL in pl Poor Inter OOL Por Grad to Fxln Dns Micritic Cht Wht OP Shp Vit Chalk Wht ShPale-Drab Grn-Tr Red Fissil-Soft No Odor No Flor No Dtn NS

Dolo Tan-Brn Fxln Dns Micrite "Blocky No Vis Por Assoc w/ LS Crm-Tan Grad Tab AA Fxln OOL Por w/ OOL in pl Poor Inter OOL Por Grad to Fxln Dns Micritic Cht Wht OP Shp Vit Chalk Wht Sh Pale-Drab Grn-Tr Red Fissil-Soft No Odor No Flor No Dtn NS

Mudco Mud Ck @ 5259' @ 8:25 AM 4/14/11 Vis = 62; Wt=9.25#; Pv=23; Yp 24; WL=7.2#; Cake 1; Chl=2000 Ppm; Cal 20; Sol. 6.3; DMC= \$ 169.80; CMC= \$19,988.70

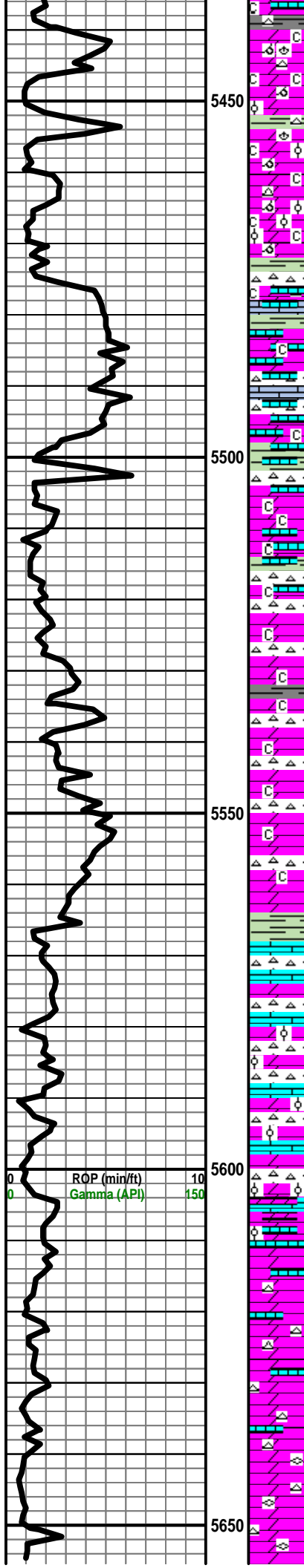
Gas Kick = 22 Units Bkgd Gas = 17 Units

Gas Kick = 25 Units Bkgd Gas Set @ 17 Units

Re-Zero Tooke Daq @ 5293'. Zero Set @ 12 Units. Bkgd Gas= 15 Units

Re-Zero Tooke Daq @ 5421'. Zero Set @ 12 Units. Bkgd Gas= 19 Units

10 100 1000



Dolo Tan-Brn FxIn Dns Micrite "Blocky No Vis Por Grad OOL/OOM Por w/ OOL in pl Tr (1 Pcs) w/ Drk Brn Stn (on Edge Micrite) w/V Poor InterOOLPor Grad Dns Cht Wh-Tan OP Shp Vit (Tr Only) Fos (Brach) Chalk Wht Sh Tr Char Fissil-Soft No Odor No Flor No Dtn NS

Dolo Tan-Brn FxIn Dns Micrite "Blocky No Vis Por Grad OOL/OOM Por w/ OOL in pl Poor-Tair InterOOLPor Grad Dns Fos (Brach) Chalk Wht Cht Wh-Tant OP Shp Vit (Tr Only) Sh Tr Drab Grb Sof No Odor No Flor No Dtn NS

Dolo Tan-Brn FxIn OOL/OOM Por w/ OO in pl Tair-Good InterOOL Por Grad Dns Micrite AA w/No Vis Por Chalk Wht Cht Wh-Tan OP Shp Vit (Tr Only) Sh Char-Blk Carb FissilSoft No Odor No Flor No Dtn NS

Dolo Tan-Brn AA FxIn OOL/OOM Por w/ OOL in pl Fair-Good InterOOL Por Grad Dns Micrite No Vis Por Chalk Wht Cht Wh-Tan Inc OP Shp Vit Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Tr OOL/OOM Por w/ OOL in pl Tair-Good InterOOL Por Grad Dns Micrite AA w/ No Vis Por Chalk Wht Cht Wh-Gry OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Grad Dns Micrite No Vis Por Chalk Wht Cht Wh-Gry Inc Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Grad Dns Micrite No Vis Por Chalk Wht Cht Wh-Gry Inc Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Grad Dns Micrite No Vis Por Chalk Wht Cht Wh-Gry-Tan Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Grad Dns Micrite No Vis Por Chalk Wht Cht V Wh-Gry-Tan Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo/Ls Tan-Crm FxIn Grad Dns Micrite No Vis Por Chalk Wht Cht V Wh-Gry-Tan Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo Crm-Tan-Brn FxIn Grad Dns Micrite No-Poor Vis Por Chalk Wht Cht V Wh-Gry Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo Crm-Tan-Brn FxIn Grad Dns Micrite No-Poor Vis Por Chalk Wht Cht V Wh-Gry Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo Brn-Crm-Tan FxIn Grad Dns Micrite No-Poor Vis Por Grad Poor-Fair OOM Por W/OOL in pl. P InterOOM Por Tr Vug Leching Poor Devel Chalk Wht Cht V Wh-Gry Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

Dolo Brn-Crm-Tan FxIn Grad Dns Micrite No-Poor Vis Por Grad Poor-Fair OOM Por W/OOL in pl. P InterOOM Por Tr Vug Leching Poor Devel Chalk Wht Cht V Wh-Gry Abd OP Shp Vit Inc Sh Char-Drab Grn Fissi-Soft No Odor No Flor No Dtn NS

WARSAW 5568' (- 2756)

Dolo Crm-Tan FxIn Grad Sucrosic Fair IxIn Por Ls Crm FxIn Grad Poor-Fair OOM Por Barren Cht V Wht OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

Dolo Crm-Tan FxIn Grad Sucrosic Fair IxIn Por Ls Crm FxIn Grad Poor-Fair OOM Por Barren Cht V Wht OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

Dolo Crm-Tan FxIn Grad Sucrosic Fair IxIn Por Ls Crm FxIn Grad Poor-Fair OOM Por Barren Cht V Wht OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

Dolo Crm-Tan FxIn Grad Sucrosic Fair IxIn Por Ls Crm FxIn Grad Poor-Fair OOM Por Barren Cht V Wht OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

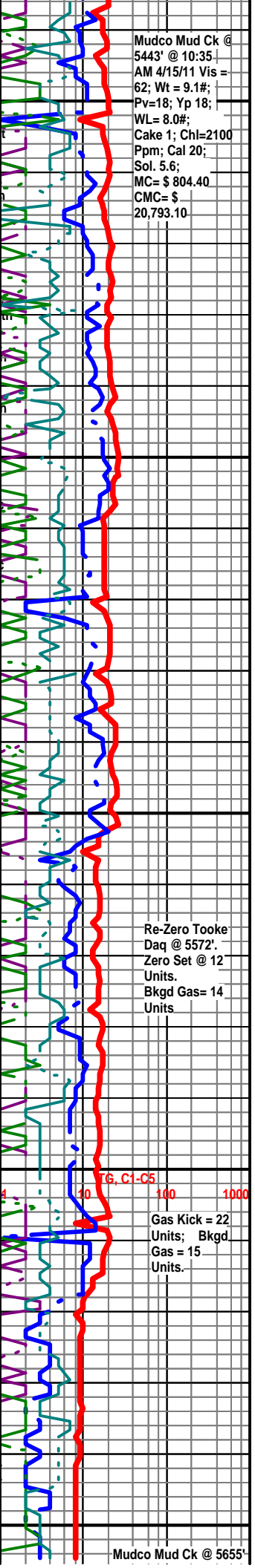
Dolo Gry FxIn Grad V FxIn Sucrosic Por w/Fair IxIn Por Fos (Fuss) Ls Crm AA FxIn Grad Poor IxIn Por Barren Cht Wht-Gry OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

Dolo Gry FxIn Grad V FxIn Sucrosic Por w/Fair IxIn Por Fos (Fuss) Ls Crm AA FxIn Grad Poor IxIn Por Barren Cht Wht-Gry OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

Dolo Gry FxIn Grad V FxIn Sucrosic Por w/Fair IxIn Por Fos (Fuss) Ls Crm AA FxIn Grad Poor IxIn Por Barren Cht Wht-Gry OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

30" CFS @ 5655' Dolo Gry FxIn Grad V FxIn Sucrosic Por w/Fair IxIn Por Fos (Fuss) Ls Crm Dec FxIn Grad Poor IxIn Por Barren Cht Wht-Gry OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS

60" CFS @ 5655' Dolo Gry FxIn Grad V FxIn Sucrosic Por w/Fair IxIn Por Fos (Fuss) Ls Crm Dec FxIn Grad Poor IxIn Por Barren Cht Wht-Gry OP Shp Vit Chalk Wht Sh Char-Aqua Fissi-Soft No Odor No Flor No Dtn NS



Mudco Mud Ck @ 5443' @ 10:35 AM 4/15/11 Vis = 62; Wt = 9.1#; Pv=18; Yp 18; WL= 8.0#; Cake 1; ChI=2100 Ppm; Cal 20; Sol. 5.6; MC= \$ 804.40 CMC= \$ 20,793.10

Re-Zero Tooke Daq @ 5572'. Zero Set @ 12 Units. Bkgd Gas= 14 Units

Gas Kick = 22 Units; Bkgd Gas = 15 Units.

Mudco Mud Ck @ 5655'

CFS @ 5655'
30" - 60"

R.T.D. = 5655' (- 2843)
L.T.D. = 5658' (- 2846)

ELECTRIC LOGS BY

LOGTECH, INC.

DUAL COMP.
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DUAL INDUCTION;
BOREHOLE
COMPENSATED
SONIC;
MICRORESISTIVITY;
GAMMA
RAY-NEUTRON
(CASED HOLE).

5700

5750

@ 11:15 AM 4/16/11
MC = \$ 513.00
CMC = \$ 21,306.10