KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1067079

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: John Goldsmith
Purchaser: NCRA

Designate Type of Completion:

- [x] New Well
- [ ] Re-Entry
- [ ] Workover

- [x] 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 #:

08/16/2011	08/24/2011	10/15/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-21938-00-00
Spot Description: 2581' FNL & 1797' FEL SWSESWNE
SW - SE - SW - NE Sec. 33 Twp. 13 S. R. 31 [ ] East [x] West
2581 Feet from [x] North / [ ] South Line of Section
1797 Feet from [x] East / [ ] West Line of Section
Footages Calculated from Nearest Outside Section Corner:
[x] NE [ ] NW [ ] SE [ ] SW
County: Gove
Lease Name: KLAUS-CAMPBELL Well #: 1-33
Field Name: Wildcat
Producing Formation: Johnson
Elevation: Ground: 2895 Kelly Bushing: 2898
Total Depth: 4700 Plug Back Total Depth: 4683
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? [x] Yes [ ] No
If yes, show depth set: 2405 Feet
If Alternate II completion, cement circulated from: 2405
feet depth to: 0 w/ 255 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 25000 ppm Fluid volume: 790 bbls
Dewatering method used: Evaporated
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

- [x] **Letter of Confidentiality Received**
  Date: 11/08/2011
- [x] **Confidential Release Date:** 11/07/2013
- [x] **Wireline Log Received**
- [x] **Geologist Report Received**
- [ ] **UIC Distribution**

ALT [ ] I [x] II [ ] III **Approved by:** NAOMI JAMES **Date:** 11/09/2011

Side Two

[redacted]

1067079

Operator Name: Grand Mesa Operating Company Lease Name: KLAUS-CAMPBELL Well #: 1-33

Sec. 33 Twp. 13 S. R. 31 ☐ East ☑ West County: Gove

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

Electric Log Submitted Electronically ☑ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:

CPDCN Micro Log
AI Shallow Focused Ele Log
Dual Receiver Cement Bond Log

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	220	Common	165	3%CC, 2% Gel
Production	7.875	5.50	15.5	4694	EA-2	175	

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	0-2405	SMD	255	
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
4	4530-4534	400gals RWR-1 15% Acid w/additives	4530-4546
4	4539-4546		

TUBING RECORD: Size: 2.875 Set At: 4637 Packer At:

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 10/15/2011

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	10	0	50		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:
4530-4546

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	KLAUS-CAMPBELL 1-33
Doc ID	1067079

Tops

Name	Top	Datum
Stone Corral	2381	+517
Bs/Stone Corral	2404	+494
Heebner	3914	-1016
Lansing	3957	-1059
Muncie Creek	4109	-1211
Marmaton	4310	-1412
Little Osage	4428	-1530
Johnson	4528	-1630
Morrow	4559	-1661
Mississippian	4588	-1690
LTD	4694	

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

Kansas
Corporation Commission

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

November 08, 2011

Ronald N. Sinclair
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

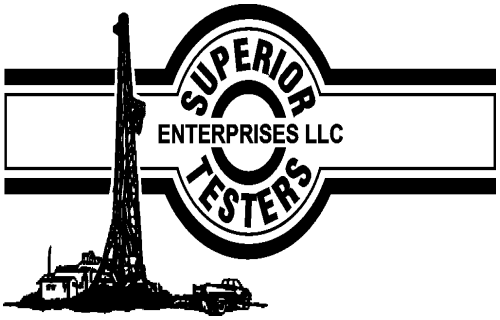
Re: ACO1
API 15-063-21938-00-00
KLAUS-CAMPBELL 1-33
NE/4 Sec.33-13S-31W
Gove County, Kansas

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,
Ronald N. Sinclair



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Company**

1700 N Waterfront Parkway Bldg 600
Wichita Kansas S 67206 + 5514

ATTN: Steve Carl

33-13-31 Gove

Klause Campbell #1-33

Start Date: 2011.08.22 @ 13:05:00
End Date: 2011.08.22 @ 19:33:30
Job Ticket #: 16524 DST #: 1

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530
1-800-792-6902

Printed: 2011.08.23 @ 11:35:52

DRILL STEM TEST REPORT

Grand Mesa Operating Company

1700 N Waterfront Parkway Bldg 600
Wichita Kansas S 67206 + 5514

ATTN: Steve Carl

Klause Campbell #1-33

33-13-31 Gove

Job Ticket: 16524 **DST#: 1**

Test Start: 2011.08.22 @ 13:05:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:01:30
Time Test Ended: 19:33:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320- 85 - Scott Cit

Interval: 4508.00 ft (KB) To 4547.00 ft (KB) (TVD)
Total Depth: 4547.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

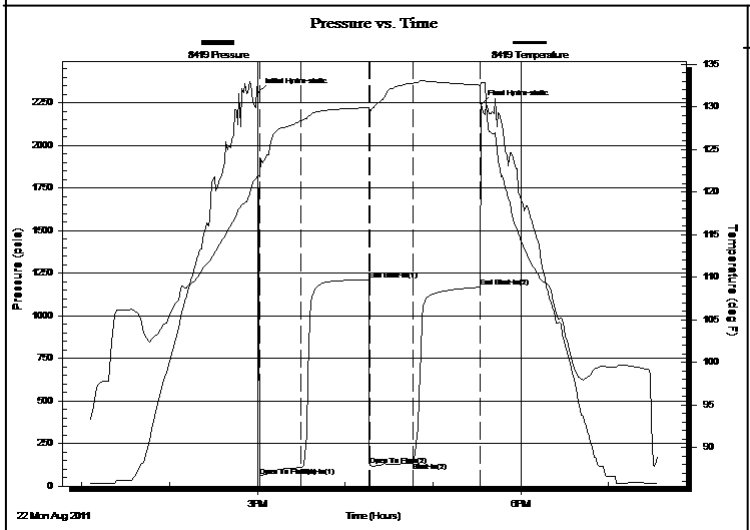
Reference Elevations: 2898.00 ft (KB)
2893.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8419 **Outside**

Press@RunDepth: 137.33 psia @ 4544.00 ft (KB)
Start Date: 2011.08.22 End Date: 2011.08.22
Start Time: 13:06:00 End Time: 19:33:30

Capacity: 5000.00 psia
Last Calib.: 2011.08.22
Time On Btm: 2011.08.22 @ 15:00:30
Time Off Btm: 2011.08.22 @ 17:33:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built to 7 1/2 inches into water
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-Weak but building blow built to 1 1/2 inches
2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2310.77	122.08	Initial Hydro-static
1	58.87	121.81	Open To Flow (1)
30	110.33	128.39	Shut-In(1)
76	1213.40	129.89	End Shut-In(1)
77	120.29	129.59	Open To Flow (2)
106	137.33	132.74	Shut-In(2)
152	1168.14	132.56	End Shut-In(2)
153	2242.35	132.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water and Mud Cut Oil	0.59
0.00	60% Oil 10% Water 30% Mud	0.00
80.00	Water and Mud Cut Oil	1.12
0.00	60%Oil 10% Water 30% Mud	0.00
20.00	Clean Oil	0.28
0.00	60%Oil 10% Water 30% Mud	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

Grand Mesa Operating Company

1700 N Waterfront Parkway Bldg 600
Wichita Kansas S 67206 + 5514

ATTN: Steve Carl

Klause Campbell #1-33

33-13-31 Gove

Job Ticket: 16524 **DST#: 1**

Test Start: 2011.08.22 @ 13:05:00

GENERAL INFORMATION:

Formation: **Johnson**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 15:01:30
Time Test Ended: 19:33:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Jared Scheck
Unit No: 3320- 85 - Scott Cit

Interval: 4508.00 ft (KB) To 4547.00 ft (KB) (TVD)
Total Depth: 4547.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

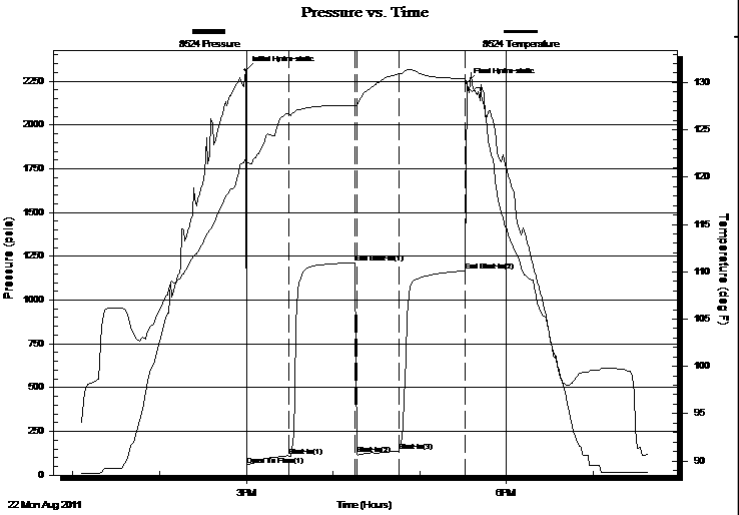
Reference Elevations: 2898.00 ft (KB)
2893.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8524 **Inside**

Press@RunDepth: 1166.34 psia @ 4543.00 ft (KB)
Start Date: 2011.08.22 End Date: 2011.08.22
Start Time: 13:06:00 End Time: 19:39:00

Capacity: 5000.00 psia
Last Calib.: 2011.08.22
Time On Btm: 2011.08.22 @ 14:59:30
Time Off Btm: 2011.08.22 @ 17:32:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built to 7 1/2 inches into water
1st Shut-in 45 Minutes-No blow back
2nd Opening 30 Minutes-Weak but building blow built to 1 1/2 inches
2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2312.28	121.95	Initial Hydro-static
1	53.67	121.55	Open To Flow (1)
30	110.26	126.60	Shut-In(1)
76	1211.95	127.61	End Shut-In(1)
77	117.29	127.51	Shut-In(2)
106	137.93	130.91	Shut-In(3)
152	1166.34	130.39	End Shut-In(2)
153	2239.34	129.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Water and Mud Cut Oil	0.59
0.00	60% Oil 10% Water 30% Mud	0.00
80.00	Water and Mud Cut Oil	1.12
0.00	60%Oil 10% Water 30% Mud	0.00
20.00	Clean Oil	0.28
0.00	60%Oil 10% Water 30% Mud	0.00

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Company

1700 N Waterfront Parkway Bldg 600
Wichita Kansas S 67206 + 5514

ATTN: Steve Carl

Klause Campbell #1-33

33-13-31 Gove

Job Ticket: 16524 **DST#: 1**

Test Start: 2011.08.22 @ 13:05:00

Tool Information

Drill Pipe:	Length:	4370.00 ft	Diameter:	3.80 inches	Volume:	61.30 bbl	Tool Weight:		1000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:		68000.00 lb
					Total Volume:	61.89 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	58000.00 lb
Depth to Top Packer:		4508.00 ft						Final	58000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		39.00 ft							
Tool Length:		67.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
SHut-InTool	5.00		Inside	4485.00		
Hydrolic Tool	5.00			4490.00		
Jars	6.00			4496.00		
Safety Joint	2.00			4498.00		
Packer	5.00			4503.00	28.00	Bottom Of Top Packer
Packer	5.00			4508.00		
Anchor	34.00			4542.00		
Recorder	1.00	8524	Inside	4543.00		
Recorder	1.00	8419	Outside	4544.00		
Bullnose	3.00			4547.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**67.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Company

1700 N Waterfront Parkway Bldg 600
Wichita Kansas S 67206 + 5514

ATTN: Steve Carl

Klause Campbell #1-33

33-13-31 Gove

Job Ticket: 16524 **DST#: 1**

Test Start: 2011.08.22 @ 13:05:00

Mud and Cushion Information

Mud Type:	Invert	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.76 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	3000.00 ppm				
Filter Cake:	1.00 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Water and Mud Cut Oil	0.590
0.00	60% Oil 10% Water 30% Mud	0.000
80.00	Water and Mud Cut Oil	1.122
0.00	60%Oil 10% Water 30% Mud	0.000
20.00	Clean Oil	0.281
0.00	60%Oil 10% Water 30% Mud	0.000
0.00	180 Gas in the pipe	0.000
0.00	Gravity 43 Corrected	0.000
0.00	Chlorides 30,000	0.000
0.00	Resisitivity .1 @ 78 Degrees	0.000

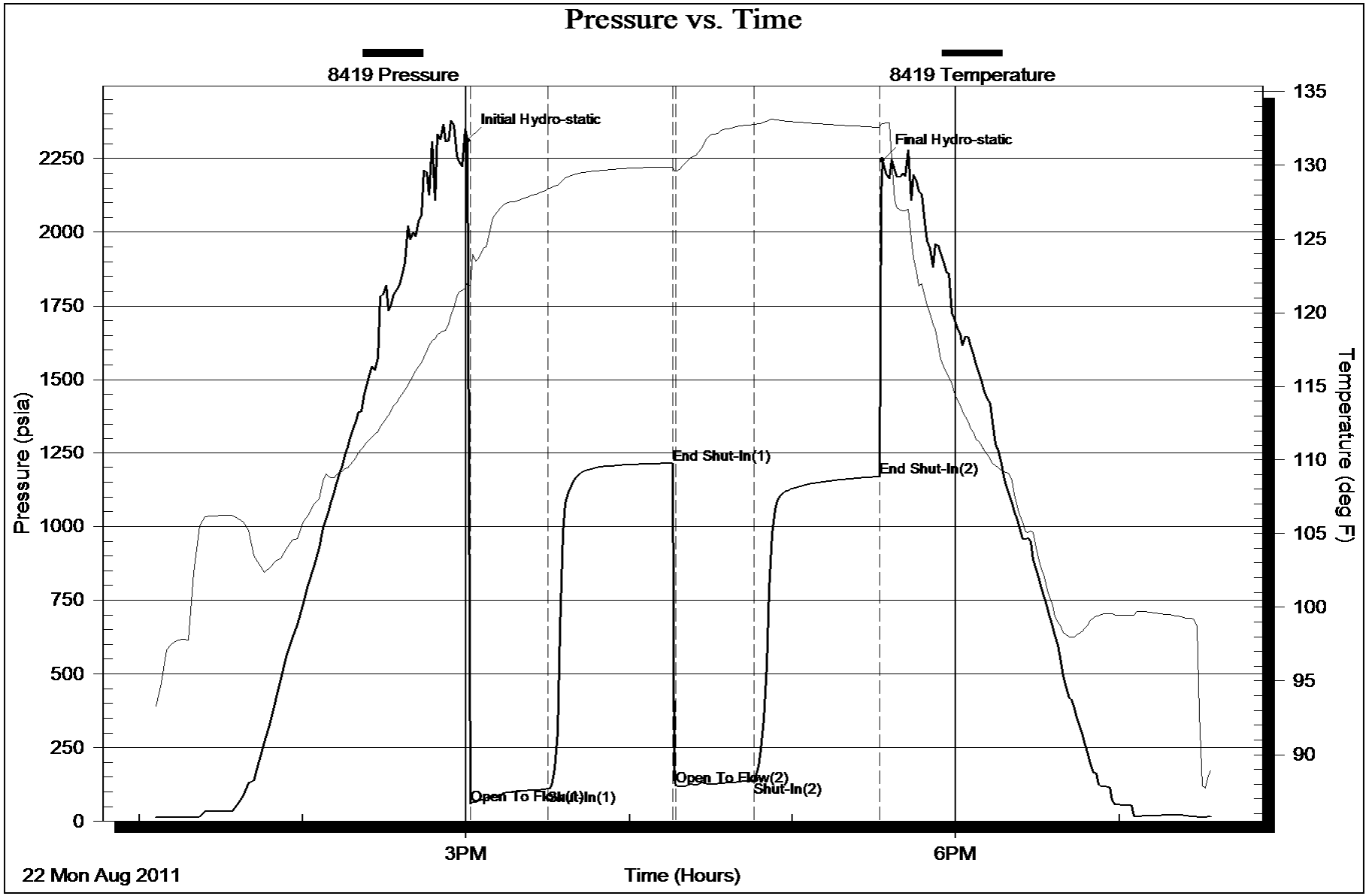
Total Length: 220.00 ft Total Volume: 1.993 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

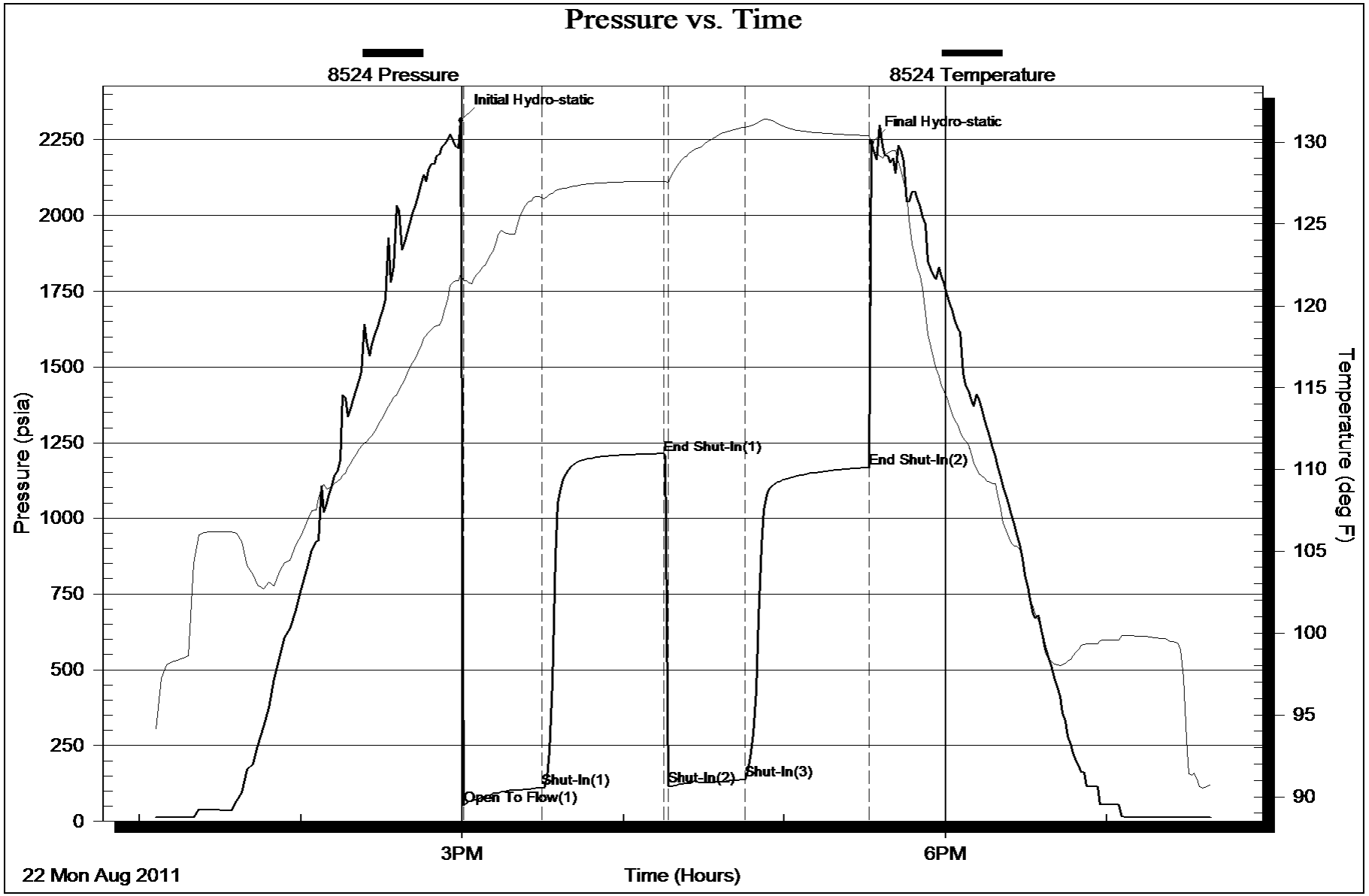
Laboratory Name: Laboratory Location:

Recovery Comments:

Serial #: 8419 **Outside** Grand Mesa Operating Company 33-13-31 Gove DST Test Number: 1



Serial #: 8524 **Inside** Grand Mesa Operating Company 33-13-31 Gove DST Test Number: 1



Superior Testers Enterprises LLC Ref. No: 16524 Printed: 2011.08.23 @ 11:35:53

ALLIED CEMENTING CO., LLC. 043390

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley, KS

DATE 8-Ka-11	SEC. 33	TWP. 13	RANGE 31	CALLED OUT	ON LOCATION	JOB START 7:00pm	JOB FINISH 9:30pa
LEASE Klaus Campbell	WELL # 1-33	LOCATION Oakley 1N, 5E, 5½S				COUNTY Gove	STATE KS
OLD OR NEW (Circle one)		Winto					

CONTRACTOR Murfin #24
TYPE OF JOB Surface
HOLE SIZE 12 ¼" T.D. 220'
CASING SIZE 8 5/8 DEPTH 220'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT 13.12 bbl

OWNER Same

CEMENT
AMOUNT ORDERED 165 sks Com 3%CC 2 Flogel

EQUIPMENT

PUMP TRUCK # 422 CEMENTER LaRue
HELPER Darren
BULK TRUCK # 409 DRIVER Chris
BULK TRUCK # DRIVER

COMMON	165 sks	@ 16.25	2681.25
POZMIX		@	
GEL	3 sks	@ 21.25	63.75
CHLORIDE	6 sks	@ 58.20	349.20
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	174 sks	@ 2.25	391.50
MILEAGE	114 sk/mile		421.08
		TOTAL	3906.78

REMARKS:

Mix 165 sks dam Casing
Displace with fresh water
Cement did circulate

Thank You

SERVICE

DEPTH OF JOB 220'
PUMP TRUCK CHARGE 1125.00
EXTRA FOOTAGE @
MILEAGE 22 X 2 @ 7.00 308.00
MANIFOLD 5 wedge @ 325.00
Light Vehicle mileage @ 4.00 176.00
@
TOTAL 1934.00

CHARGE TO: Grand Mesa
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
@
@
@
@
TOTAL

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS

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 Anthony Martin

SIGNATURE Anthony Martin

JOB LOG

SWIFT Services, Inc.

DATE 8-24-11 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
GRAND MESA	1-33	KLAUS-CAMPBELL	5½" 2-STAGE LGST.	21018

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	2400							ON LOCATION
	0045							START 5½" CASING IN WELL
								TD - 4700 SET @ 4694
								TP - 4698 5½ # 15.5
								SJ - 11'
								CENTRALIZERS - 1, 3, 5, 8, 10, 15, 55
								CMT BSKTS - 2, 56
								DV TOOL @ 2405 TOP JT # 56
	0300							DROP BALL - CIRCULATE ROTATE
	0350	7	12		✓		500	PUMP 500 GAL MUDFLUSH "
	0352	7	20		✓		500	PUMP 20 BBLS KCL - FLUSH "
	0400	4	42		✓			MIX 175 SKS EA-2 @ 15.4 PPG "
	0412							WASH OUT PUMP & LINES
	0412							RELEASE 1ST STAGE LATCH DOWN PLUG
	0415	8	0		✓			DISPLACE PLUG "
		8	101				850	SHUT OFF ROTATING
	0430	7	111.5				1500	PLUG DOWN - PSI UP LATCH IN PLUG
	0432						OK	RELEASE PSI - HELD WASH TRUCK
	0435							DROP DV OPENING PLUG
	0450				✓		1250	OPEN DV - CIRCULATE
	0635	6	20		✓		300	PUMP 20 BBLS KCL - FLUSH
	0640		7-5					PLUG RH - MH (30 SKS - 20 SKS)
	0645	6	140		✓		250	MIX 250 SKS SMD @ 11.2 PPG
	0725							WASH OUT PUMP & LINES
	0726							RELEASE DV CLOSING PLUG
	0730	6	0		✓			DISPLACE PLUG
	0740	5	57.2				1500	PLUG DOWN - PSI UP CLOSE DV TOOL
	0742						OK	RELEASE PSI - HELD
								CIRCULATED 40 SKS CMNT TO PIT
								WASH TRUCK
	0830							JOB COMPLETE Don Stucker
								THANK YOU
								WAYNE, DON L., JOE, ROB

Acidizing Report **PRO-STIM CHEMICALS**

Date 9-22-11

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton	Pro-Stim Number AO 57146	
Well Name & Number Hans Campbell	Field	Formation	Spot 1 bri
County Logan / State KS	BHT	YD	Interval 4530-46

Well Type: Completion ☐ Recompletion ☐ Workover ☐ Oil ☐ Gas ☐ Water ☐ Disposal ☐ Perf ☐ OH ☐

Job Pumped Via: Tubing ☐ Casing ☐ Annulus ☐ CTU ☐ Combination ☐			Plug Depth		Packer Depth Treat 4494		
Casing Size:	GRD	WT	Depth	Tubing Size: 2 7/8	GRD	WT	Spot 4552
Casing Vol.	Tbg Vol 26		Ann Vol	OH Vol	Total Displacement		
Maximum Pressure	Tubing		Casing	Proposed Pump Time	AOL	Leave Loc	

Special Instructions: 400 gals R&I R-1 15%

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
							Safety Meeting
1	Acid	Spot		1	0		Prs Test to ____ psi
10	Acid	2.6		2.3	20		
14	Acid	2.6		9.8	20		Acid Gone
20	Flush	0		26.3	50		Coiled
21	Flush	0		26.4	300		
1:30	Flush	0		27.2	500		
2:37	Flush	0		27.9	800		
2:44	Flush	0		27.9	1000		
2:57	Flush	0		28	1200		
3:10	Flush	0		28.1	1300		
3:20	Flush	1		29.3	350		
3:26	Flush	1		36	350		Done

Treatment Synopsis

Avg Inj Rate	Fluid BPM			Total Injected	H20 26 bbl	Acid 9.8 bbl	Oil	
Treating Prs.	Max	Final	Avg.	ISIP 100	5'SI VAC	10'SI	15' SI	

Customer Representative ____ Pro-Stim Supervisor Shannon M.

Pro-Stim Chemicals, LLC

P.O. Box 25
Cheyenne Wells, CO 80810

Invoice

Date	Invoice #
9/29/2011	57146

Bill To	Ship To
Grand Mesa Operating Co. 1700 N. Waterfront Pkwy - Bldg 600 Wichita, KS 67206-6614	

Requested By	Terms	Sales Rep.	Ship	Lease
	Net 30	S M	9/22/2011	KLAUS CAMPBELL

Quantity	Item Code	Description	Price Each	Amount
400	RWR-1 15%	GALLONS	2.26	904.00
2	AR-630	GALLONS	24.10	48.20
26	KCL BIOCIDE - 2%	BRLS	3.16	82.16
1	DUMP JOB		158.00	158.00T
6	TRUCK TIME	HOURS	95.00	570.00T
		Sales Tax - LOGAN CO.	7.80%	56.78

Total $1,819.14

Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

GRAND MESA OPERATING COMPANY

(316) 265-3000
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

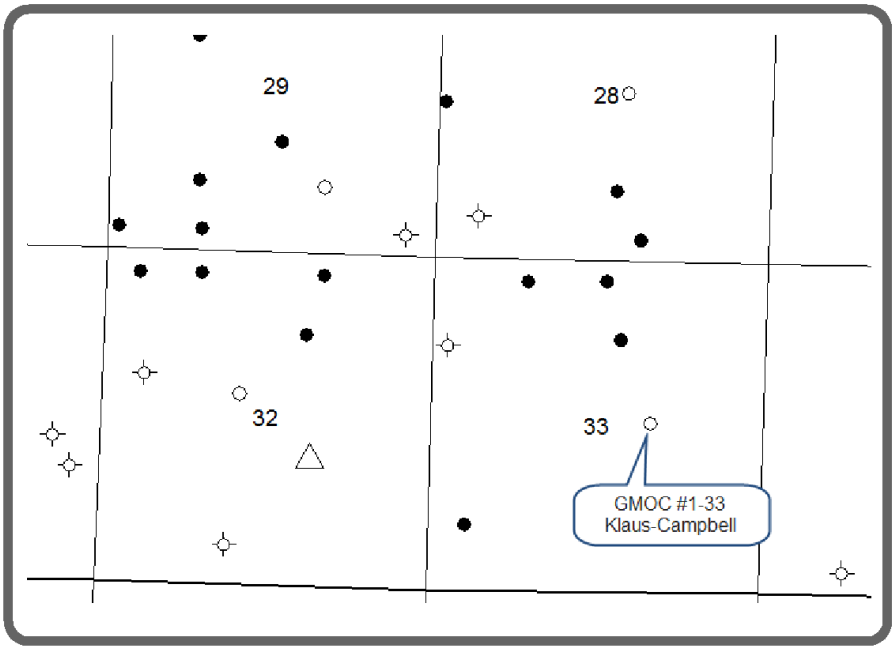
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name:	#1-33 Klaus-Campbell		
Location:	2581'FNL 1797'FEL 33-13s-31w, Gove County, Kansas		
License Number:	API: 15-063-21938	Region:	Antelope Ridge
Spud Date:	8/16/2011	Drilling Completed:	8/23/2011
Surface Coordinates:	LAT: 38.880957 LONG: -100.766931		
Bottom Hole Coordinates:	Vertical hole		
Ground Elevation (ft):	2893	K.B. Elevation (ft):	2898
Logged Interval (ft):	3600' To: RTD	Total Depth (ft):	4700
Formation:	Mississippian at RTD		
Type of Drilling Fluid:	Chemical		

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Steven P. Carl and John Goldsmith
Company: Grand Mesa Operating Company
Address: 1700 N. Waterfront Parkway, Bldg 600
Wichita, Kansas 67206
316-256-3000



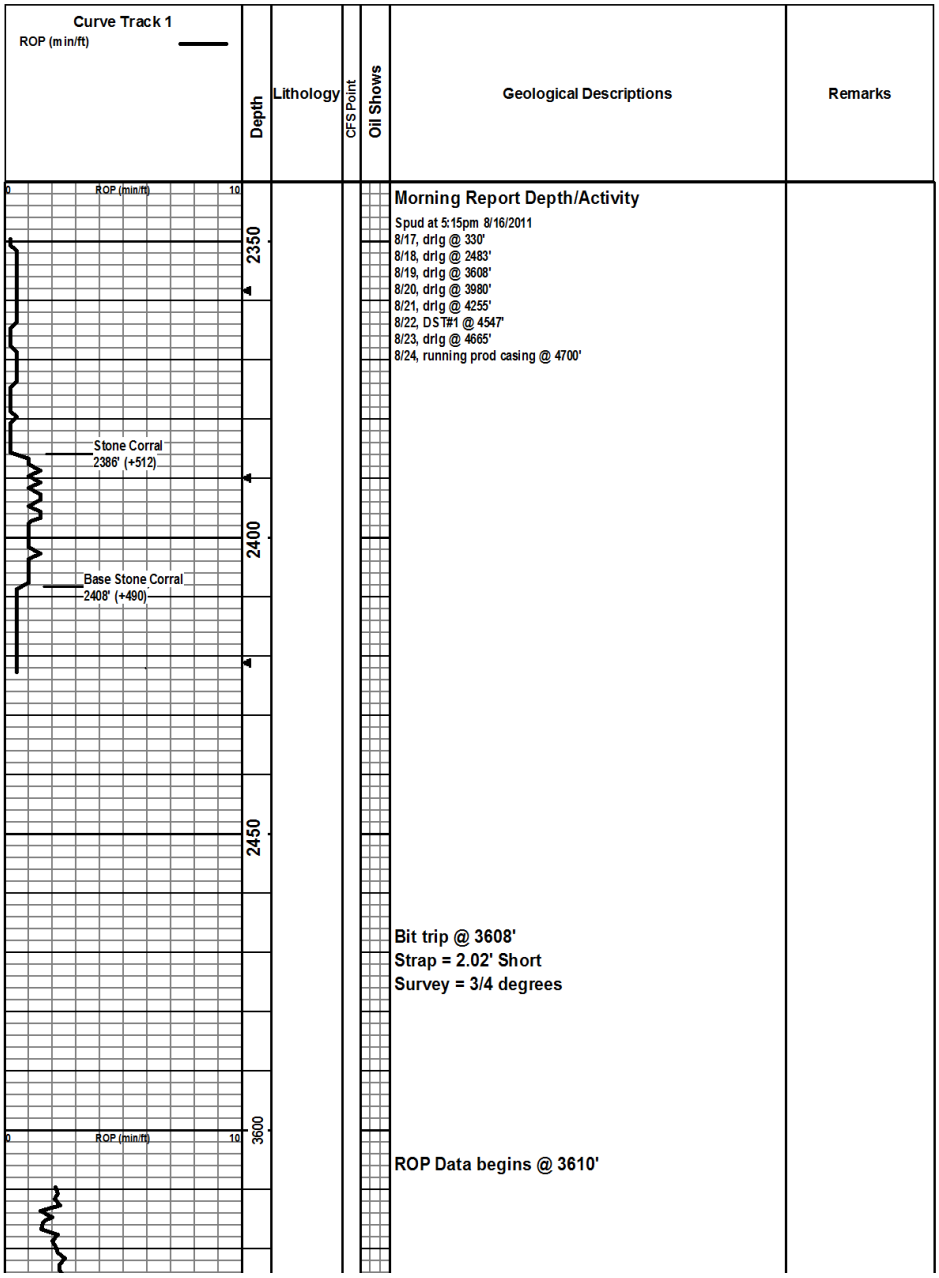
COMMENTS

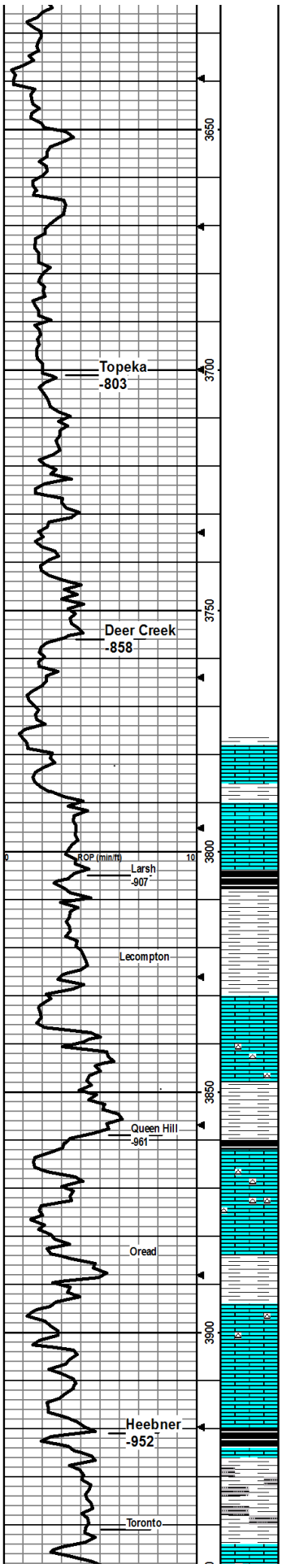
Contractor: Murfin Drilling Company Rig #24
Pusher: Tony Martin
Surface Casing: 8 5/8 set at 220'
Production Casing: 5 1/2" set at 4700' to further evaluate the Johnson zone.
Mud by: MudCo
DST's by: Superior Testing
Logs by: Weatherford (DIL, CN-CD, ML)
RTD=4700'
LTD=4694'

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	Datum	LOG TOPS Depth	Datum
Stone Corral	2386'	+512	2381'	+517
B/Stone Corral	2408'	+490	2533'	+494

Heebner Shale	3921'	-1023	3915'	-1017
Lansing	3959'	-1061	3954'	-1056
Muncie Creek Shale	4115'	-1217	4109'	-1211
Stark Shale	4203'	-1305	4197'	-1299
Hushpuckney Shale	4240'	-1342	4233'	-1335
Marmaton	4312'	-1414	4309'	-1411
Upper Fort Scott	4408'	-1510	4406'	-1508
Little Osage Shale	4432'	-1534	4428'	-1530
Excello Shale	4459'	-1561	4454'	-1556
Johnson Zone	4534'	-1636	4528'	-1630
Morrow	4563'	-1665	4558'	-1660
Mississippian	4594'	-1696	4588'	-1690
RTD	4700'	-1802		
LTD			4735'	-1697





LS- lt gry/cream, fxln, no por, abund sh - gry, no cup odr, ns.

LS - gry/md tan, fxln, foss-crin, bryz, brach, mstly dns w/ nvp, sm LS drk gry, foss-crin, 1 pc LS md gry, fxln, spty por, intxln por, spty drk brn stn, cuts pl blue, nsfo.

LS - gry/md tan, fxln, fw cal inclusns, mstly dns w/ nvp, no cup odr, ns.

LS - gry/md tan, fxln, foss-forams/var, dns w/ nvp, no cup odr, fw LS gry, sptd w/ drk foss, dns/hd w/ nvp, scat pr int xln por, spotty drk stn, cuts pale blu, nsfo.

LS-crm/lt tan, mottled, crs xln, mealy/grainy, foss-bryz/fus, sm ool/pis, dense, hard, nvp, abund chert-gry, opaque, foss, nvp, no cup odr, ns.

LS-mostly as above, dense/hard, diff crush, v foss-crin, SH-gry/grn, foss-brach, no cup odr, ns.

LS-crm/tan, fn-med xln, dense/hard, diff crush, v foss-crin/ fus/gas, scat pr int xln por, abund chert-gry, opaque, foss, no cup odr, no fluor, ns.

LS-lt gry/tn, vfn-fn xln, dense/hard, diff crush, decr foss-few fus/crin, nvp, chert as above, sm weathered, sm chalk, no cup odr, ns.

SH-gry/brn/sm blk-fiss, sm silty, LS-as above, no cup odr, ns.

LS-med gry, med-crs xln, foss-fus/crin/foram , dense/hard, nvp, decr chert, sm chalk, no cup odr, ns.

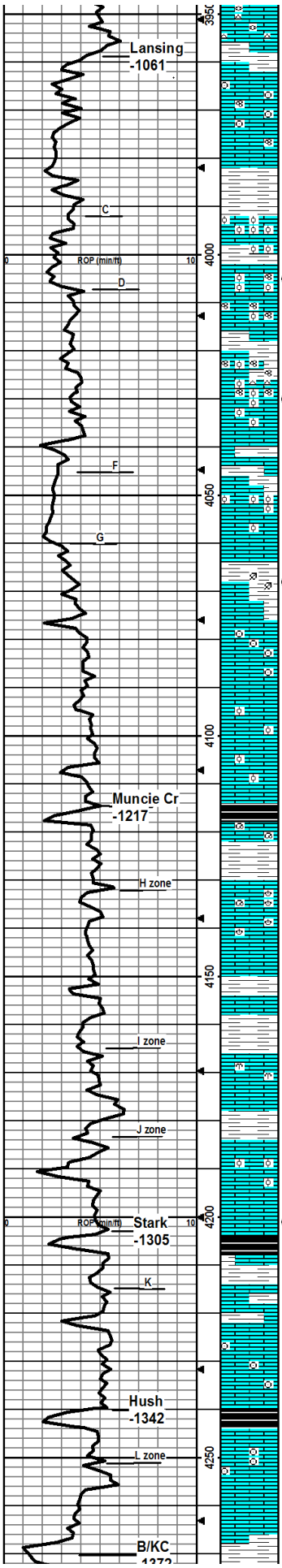
LS-tan/gry, med xln, foss, as above, dense/hard, nvp, ns.

LS-gry, fn-med xln, decr foss, dense/hard, nvp, ns.

SH-blk, carb, few pcs in 3930sm pl, flood in 3940sm pl.

MUDSTN/SH-lt gry/lt tan, v soft, silty in part, sample cup water is dirty tan/gry.

LS-lt tan/crm, micro-fn xln, vfoss-various, rare pr int foss por mostly



filled w/calc spar, sm ool, dense/hard, diff crush, scat drk brn min stn, does not cut, sm chert-gry/ tan, opaque, foss-fus/spic, scat min fluor, nvp, no cup odr, ns.

LS-gry, mostly vfn-fn xln, dense/hard, sm crs xln, sparry, sm chalk, uniform-vfoss-foram/crin/spic, v rare pr int xln por, no cup odr, ns.

LS-gry/lt tan, mostly as above, few pcs LS-crm, fn xln, ool/ foss-various, sparry, decr chalk, nvp, no cup odr, ns.

LS-crm/lt tan, micro-fn xln, sm uniform, dense/hard, sm profus ool, dense, med crush, few pcs chalk, nvp, no cup odr, ns.

LS-med-lt tan, sm fn xln, sm med-crs xln, abund foss-bryz/ various, abund spar, dense, nvp, no cup odr, ns.

LS-crm/tan, fn xln, profus ool/foss, spar filled int ool por, sm chert-gry, opaque, foss, no cup odr, no fluor, ns.

60min LS-as above, influx red mudstn, v soft, sticky.

Circ 60min

LS - lt tan/crm, f/med xln, ool/foss-forams, dens/hrd, ool filled por, no cup odr, sm small specs of pyrite

LS-crm/lt tan, vfn xln, rare crs xln, v foss/ool, sparry, mostly dense, sm mealy/flakey, chalky, nvp, sm chert-gry, opaque, fresh, no cup odr, SH-gry/grn, sm silty. ns.

LS - crm/lt tan, vfn xln, foss/ool, dense/hrd, nvp, no cup odr,

Circ 60min

LS - lt tan/crm, fn xln, foss sm ool, dense, nvp, sm chert-gry, opaque, no cup odr, SH-gry.

LS - lt tan/crm, fn xln, ool/foss, sm chalky, ool fill por, sm SH - gry/grn.

LS - crm/lt tan, fn xlun, foss, sm ool, nvp, sm SH gry/grn, w/ pyrite intrmx, 2 pc chert, orgn, no cup odr.

Predom SH-gry/brn, silty, sm mica, few plant remains.

Circ 60min

LS - Lt tan/crm, vfn xln, foss/ool, nvp, sm SH-gry/grn, silty, no cup odr, ns.

LS - crm/lt gray, vf xln, sm foss-crin, few pcs ool, nvp, no cup odr, ns.

LS - lt tan/crm, fxln, fw foss sm ool, nvp, no cup odr, ns.

LS - crm/lt tan, fxln, scat frac w/ drk brn min stain, ds not cut, sm ool, nvp, no cup odr, ns.

LS - lt gry/crm, f w/ sm med xln, sm ool, nvp, sm pyrite min intrmxd, no cup odr, ns.

LS - lt gry/crm, fxln, sm ool/fw foss, nvp, sm cherty-gry, opaque, no cup odr, fw frags of drk carb SH.

SH - drk gry/blck, carb.

LS - lt gry/lt brn, fxln, foss-gast, sm ool, dense/hard, no cup odr, ns.

LS - Lt/med tan, med/crse xln, foss-bryz/crin, mstly dense, sltly chalky, fw pcs vpr nxln por, spty dead oil stain, cuts wk pale blue, no cup odr, nsfo.

LS-lt tan, fn xln, foss-brach/crin/ool, dense/med crush, nvp, no cup odr, ns.

LS-lt tan, vfn xln, dense/hard, mostly uniform, decr foss, few pcs chert, few frac faces w/drk stn, wk cut, no cup odr, nsfo.

LS-tan, med-crs xln, mostly uniform, sm foss-various, sm nvp, abund SH-brn, silty, no cup odr, ns.

SH-predom brn, silty, sm gry, silty.

LS-crm/lt tan, vfn xln, foss-fus/crin/bryz, dense, brittle, nvp, no cup odr, ns.

LS-sm as above, plus LS-gry, fn xln, uniform, dense/hard, nvp, no cup odr, ns.

SH-gry/grn/brn, sm silty, hard, waxy, no cup odr, ns.

LS-crm, micro xln, foss/ool, dense, brittle, nvp, no cup odr, no fluor, ns.

LS-crm, micro-fn, mosity uniform, sm foss as above, dense/hard, no cup odr, ns.

Circ 60min

SH-blk, carb.

LS-lt brn, micro xln, hard, dense, brittle, foss-various, nvp, no cup odr, ns.

LS-as above, SH-gry/grn, silty.

LS-gry, fn-med xln, dense, hard, brittle, foss-crin, nvp, no cup odr, ns.

SH-blk, carb.

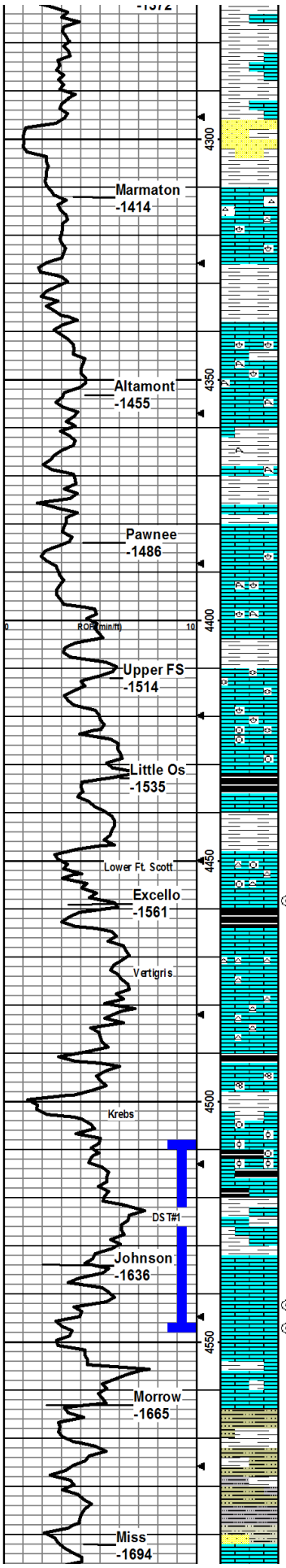
LS - lt tan/lt brn, f/med xln, dense/hard, foss, nvp, no cup odr ns.

LS - gry/lt tan, f sm med xln, dense, nvp, no cup odr, ns.

SH - gry/grn, hard.

Mudco:
3957'
Wt: 9.1
Vis: 57
pH: 10.0
Filt: 8.8
Chlor: 2200
LCM: 2

Mudco:
4240'
Wt: 9.1
Vis: 53
pH: 9.5
Filt: 8.2
Chlor: 2500
LCM: 2



SH - gry/grn, sm silty, no cup odr.

SH- gry/grn, sm silty, sm LS - tan/lt brn, f xln, dense, flakey, nvp no cup odr, ns

SH - gry/grn, silty, sm LS- gry/lt tan, fxnl, foss, dense/hard, nvp, no cup odr, ns.

SH- gry/grn, sandy, soft, chalky, sm LS - crm/lt tan, med xln, foss-brach, sm ool, tr int xln por, SS - lt brn, fn grn, sub rnded grns, tr por, no cup odr, ns.

LS - lt tan/crm, f/med xln, sm ool, nvp, sm pcs Chert - brght orng, no cup odr, ns.

LS - lt tan/crm, f xln, foss-crin/brach, flakey, nvp, fw pcs SH - reddish/brn, silty, no cup odr, ns.

LS - lt tan/lt brn, fxln, foss-brach, flakey, sm crm , nvp, no cup odr, ns.

LS - lt tan/crm, f/med xln, foss-brach, dsn/hrd, nvp, sm SH - rddsh/brn, silty, fresh, no cup odr, ns.

LS-med tan, med xln, uniform to v foss-coral/crin, hard/ dense, brittle, few pcs w/vpr int xln por, drk patchy stn, dead oil? does not cut, abund SH-gry/brn, sm silty, no cup odr, nsfo.

LS-brn-lt gry, sm mottled, sm uniform , sm foss-coral/ various, hard/dense, rare vpr int xln por w/drk patchy dd oil stn, does not cut, abund SH-predom gry, no cup odr, nsfo.

SH-predom gry, silty, sm red/brn, silty, no cup odr, ns.

SH-gry/brn, silty, sm pure chalk-wht, v soft, sticky, nvp, no cup odr, ns.

pure chalk as above, soft, sticky.

LS-med tan, micro xln, profus ool/foss-brach/coral/bryz, hard, dense, chalky, nvp, no cup odr, ns.

LS-lt gry-med tan, micro xln, profus ool/pic/foss as above, flakey, chalky, easy crush, nvp, SH-predom gry, sm striated, silty, sm blk-carb, no cup odr, ns.

LS-med tan, micro xln, profus ool/foss-crin/brach/fus, dense, med crush, nvp, SH-drk gry/blk, sm carb, no cup odr, ns.

LS-med tan, fn xln, decr ool/foss, dense, hard, brittle, few pcs w/vpr int xln por, few spots free oil in rare pcs, chalky, abund chert-gry, op-transl, foss, nvp, no cup odr, ns.

SH-mostly drk gry, sm blk, carb, fissile.

SH-med-lt gry, fissile.

LS-crm/lt gry, fn xln, mostly uniform, dense/brittle, foss-spic/crin, nvp, no fluor, abund chert-gry, transl, foss-spic, no cup odr, ns.

SH-blk, carb, flood in 4470smpl, bleed gas on break, no cup odr.

Circ 30min

LS-gry, fn xln, uniform, nvp, abund chert-gry, opaque, foss-spic, no cup odr, ns.

LS-med brn-lt tan, fn xln, some uniform, some v ool foss-various, dense, hard, nvp, abund sharp chert-gry, opaque, no cup odr, ns.

SH-blk, carb.

LS-tan, micro-fn xln, mostly uniform, dense, brittle, med crush, few foss-foram, nvp, no cup odr, ns.

DST#1
4508'-4547'
Johnson
30-45-30-45
180' GIP
200' TF
20' CO
180' W&MCO
60% Oil
10% Wtr
30% Mud
Chlor: 30k
IFP: 59-110#
FFP: 120-137#
SIP: 1213-1168#

SH-gry, silty.

LS-mostly as above, sm LS-tan, fn xln, ool/foss, dense, abund chert-gry, transl, foss-spic, sm DOLO-lt brn, fn xln, dense, nvp, SH-gry/silty sm blk,carb, no cup odr, ns.

Mix of LS's and SH's as above, no cup odr, ns.

SH-gry, silty, sm blk carb.

LS-med tan, micro-fn xln, dense, brittle, mostly uniform to sltly foss, vrare pr int xln por, 1pc/tray w/ wssfo, no cup odr.

LS-mostly as above, dense, few pcs/tray w/pr-fr int xln por, ssfo, fnt odr on break, fnt gold fluor, no cup odr.

Circ 60min

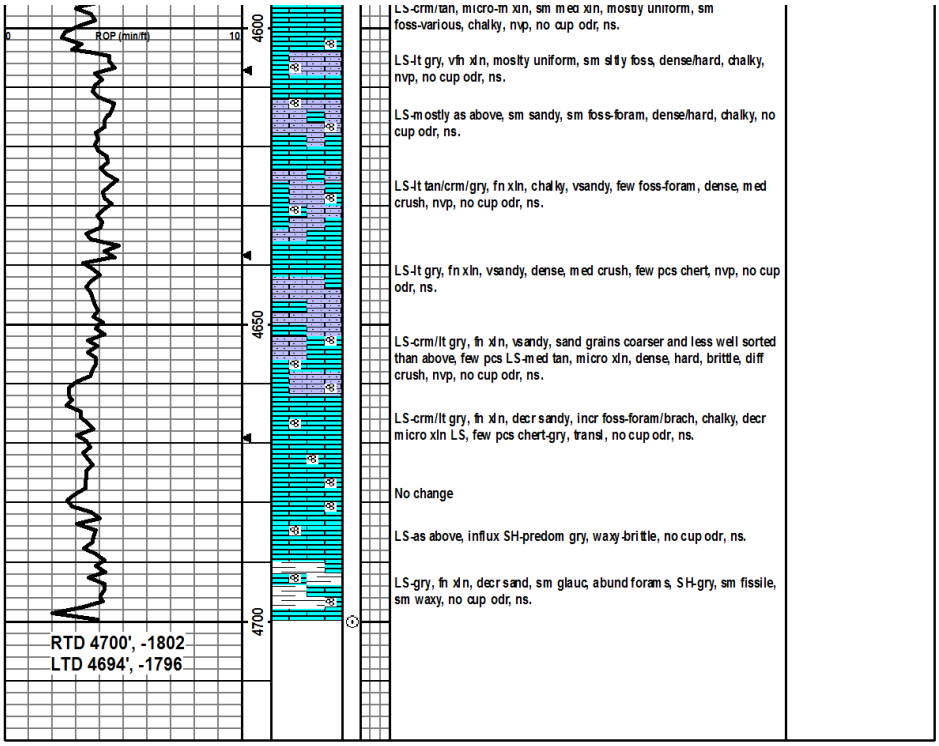
Circ 60min

LS-med tan, fn xln, dense, uniform, rare foss, few pcs w/fr int foss por, nsfo, few pcs LS-med tan, med xln, fr pp/vug por, ssfo, sm drk dd oil stn, abund pure wht chalk, soft, abund SH-gry, no cup odr.

SH, and Mudstone, yel/gry, firm to v soft/sticky, silty, abund loose sand grns-clr qtz, vfn grn, sub-rnd, well srtd, no clusters, no cup odr, no fluor, cup water dirty yellow/brown, ns.

SH and Mudstone as above, loose ss grns as above, no cup odr, ns.

SH-lt tan, vsoft, sticky, abund sand grns as above, no cup odr, sm SS clusters-lt blu/gry, vfn grn, well cem , well srtd, ns.


0
ROP (min/ft)
10
4600
4650
4700
RTD 4700', -1802
LTD 4694', -1796
LS-crm/tan, micro-m xln, sm med xln, mostly uniform, sm foss-various, chalky, nvp, no cup odr, ns.
LS-lt gry, vfn xln, mostly uniform, sm silty foss, dense/hard, chalky, nvp, no cup odr, ns.
LS-mostly as above, sm sandy, sm foss-foram, dense/hard, chalky, no cup odr, ns.
LS-lt tan/crm/gry, fn xln, chalky, vsandy, few foss-foram, dense, med crush, nvp, no cup odr, ns.
LS-lt gry, fn xln, vsandy, dense, med crush, few pcs chert, nvp, no cup odr, ns.
LS-crm/lt gry, fn xln, vsandy, sand grains coarser and less well sorted than above, few pcs LS-med tan, micro xln, dense, hard, brittle, diff crush, nvp, no cup odr, ns.
LS-crm/lt gry, fn xln, decr sandy, incr foss-foram/brach, chalky, decr micro xln LS, few pcs chert-gry, transl, no cup odr, ns.
No change
LS-as above, influx SH-predom gry, waxy-brittle, no cup odr, ns.
LS-gry, fn xln, decr sand, sm glauc, abund forams, SH-gry, sm fissile, sm waxy, no cup odr, ns.