



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1096720  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1096720

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Mitch 1-34
Doc ID	1096720

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect Log
Comp. Sonic w/Integrated Transit Time
Micro Log
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Mitch 1-34
Doc ID	1096720

Tops

Name	Top	Datum
Bs/Stone Corral	2374	+470
Heebner	3869	-1025
Lansing	3911	-1067
Muncie Creek	4061	-1217
Stark	4149	-1305
Marmaton	4254	-1410
Excello	4400	-1556
Mississippian	4526	-1682
LTD	4625	



# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
Cell: (620) 282-8977**

P.O. Box 157  
Hoisington KS 67544  
Office: (800) 542-7313

## General Information

<b>Company Name</b>	Grand Mesa Operating Co.	<b>Well Name</b>	Mitch #1-34
<b>Well Operator</b>	Grand Mesa Operating Co.	<b>Unique Well ID</b>	DST #1 Kansas City "E" 3980-4002
<b>Contact</b>	Steve Stribling	<b>Surface Location</b>	Sec 34-13s-31w-Gove Co-KS
<b>Site Contact</b>	Kent Matson	<b>Test Unit</b>	No. 5
<b>Field</b>	Wildcat	<b>Pool</b>	
<b>Well Type</b>	Vertical	<b>Job Number</b>	F008
<b>Prepared By</b>	Jake Fahrenbruch	<b>Qualified By</b>	Kent Matson

## Test Information

<b>Test Type</b>	Conventional	<b>Test Purpose</b>	
<b>Formation</b>	DST #1 Kansas City "E" 3980-4002	<b>Gauge Name</b>	0062
<b>Start Test Date</b>	2012/09/04	<b>Start Test Time</b>	23:35:00
<b>Final Test Date</b>	2012/09/05	<b>Final Test Time</b>	08:08:00

## Test Results

Recovered:

15' in DP	Clean Oil	100% oil
80' in DC	Clean Oil	100% oil
40' in DC	SGCMO	5% gas, 55% oil, 40% mud

----- 180' Gas In Pipe -----

Total Fluid Recovered: 135'

Tool Sample: Muddy Oil 52% oil, 48% mud

Gravity: 36 (corrected to 60 degF)





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

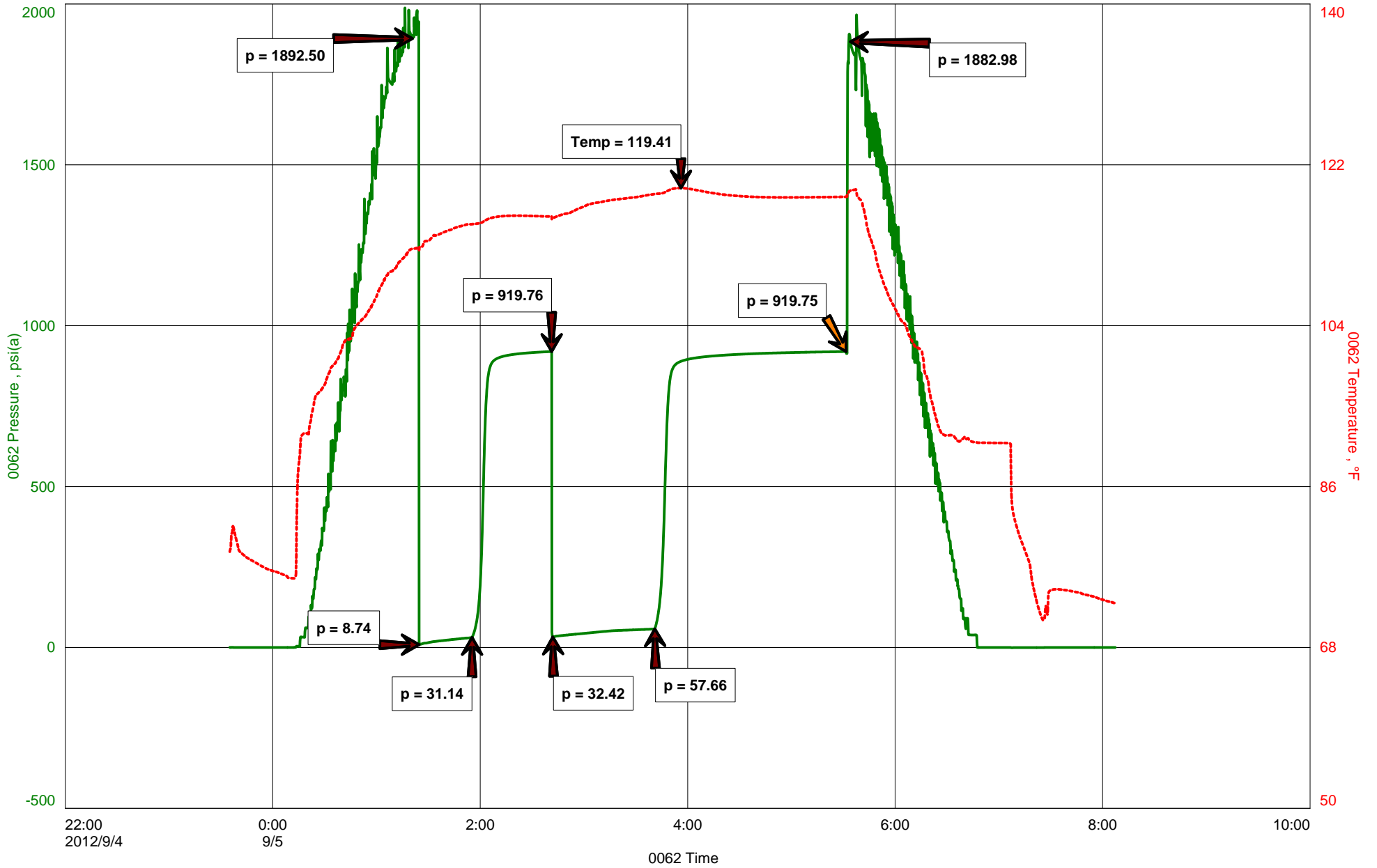
Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# Mitch #1-34





# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
Cell: (620) 282-8977**

P.O. Box 157  
Hoisington KS 67544  
Office: (800) 542-7313

## General Information

<b>Company Name</b>	Grand Mesa Operating Co	<b>Well Name</b>	Mitch #1-34
<b>Well Operator</b>	Grand Mesa Operating Co	<b>Unique Well ID</b>	DST #2 Kansas City "I&J"
<b>Contact</b>	Steve Stribling	<b>Surface Location</b>	Sec 34-13s-31w-Gove Co-KS
<b>Site Contact</b>	Kent Matson	<b>Test Unit</b>	No. 5
<b>Field</b>	Wildcat	<b>Pool</b>	
<b>Well Type</b>	Vertical	<b>Job Number</b>	F009
<b>Prepared By</b>	Jake Fahrenbruch	<b>Qualified By</b>	Kent Matson

## Test Information

<b>Test Type</b>	Conventional	<b>Test Purpose</b>	Initial Test
<b>Formation</b>	DST #2 Kansas City "I&J"	<b>Gauge Name</b>	Gauge 0062
<b>Start Test Date</b>	2012/09/06	<b>Start Test Time</b>	03:52:00
<b>Final Test Date</b>	2012/09/06	<b>Final Test Time</b>	12:25:00

## Test Results

<b>Recovered:</b>	45' in DP	HWCM	25% water, 75% mud
	120' in DC	MCW	80% water, 20% mud
	-----		No Gas In Pipe
	-----		Total Fluid Recovered: 165'
	-----		Tool Sample: VrySMCW 97% water, 3% mud
	-----		Chlorides: 38,000 ppm
	-----		RW: .11 @ 92 degF
	-----		PH: 7.5





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

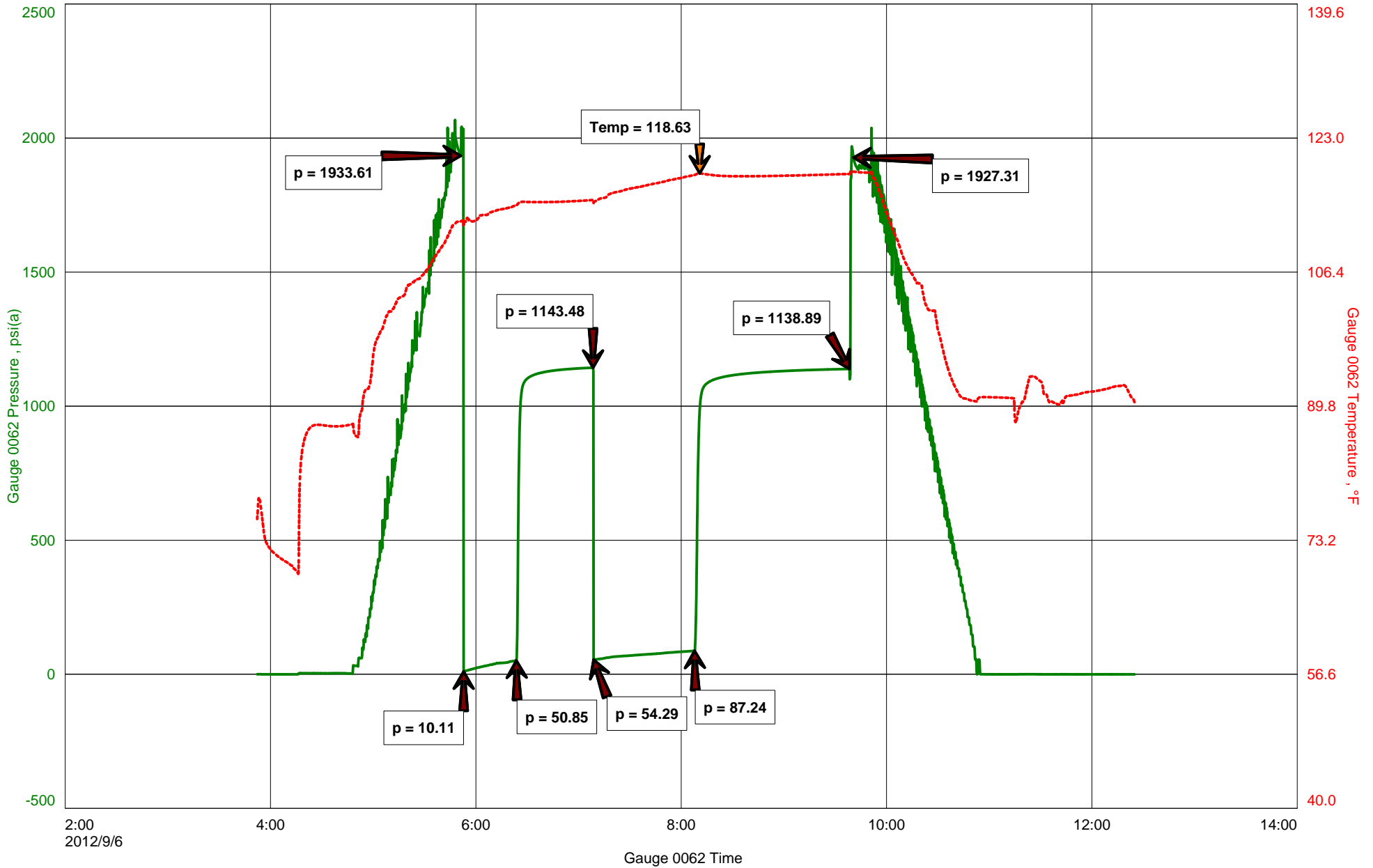
Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

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# Mitch #1-34





# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
Cell: (620) 282-8977**

P.O. Box 157  
Hoisington KS 67544  
Office: (800) 542-7313

## General Information

<b>Company Name</b>	Grand Mesa Operating Co.	<b>Well Name</b>	Mitch #1-34
<b>Well Operator</b>	Grand Mesa Operating Co.	<b>Unique Well ID</b>	DST #3 Lower Ft. Scott 4366-4395
<b>Contact</b>	Steve Stribling	<b>Surface Location</b>	Sec 43-13s-31w-Gove County-KS
<b>Site Contact</b>	Kent Matson	<b>Test Unit</b>	No. 5
<b>Field</b>	Wildcat	<b>Pool</b>	Wildcat
<b>Well Type</b>	Vertical	<b>Job Number</b>	F010
<b>Prepared By</b>	Jake Fahrenbruch	<b>Qualified By</b>	Kent Matson

## Test Information

<b>Test Type</b>	Conventional	<b>Test Purpose</b>	Initial Test
<b>Formation</b>	DSt #3 Lower Ft. Scott 4366-4395	<b>Gauge Name</b>	0062
<b>Start Test Date</b>	2012/09/07	<b>Start Test Time</b>	16:48:00
<b>Final Test Date</b>	2012/09/08	<b>Final Test Time</b>	01:55:00

## Test Results

<b>Recovered:</b>	20' in DP	Muddy Oil	56% oil, 44% mud
	60' in DC	Muddy Oil	56% oil, 44% mud
	60' in DC	MCO	90% oil, 10% mud
	-----	160' Gas In Pipe	
	-----	Total Fluid Recovered: 140'	
	-----	Tool Sample: HMCO	73% oil, 27% mud
	-----	(No free oil to check for gravity.)	





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

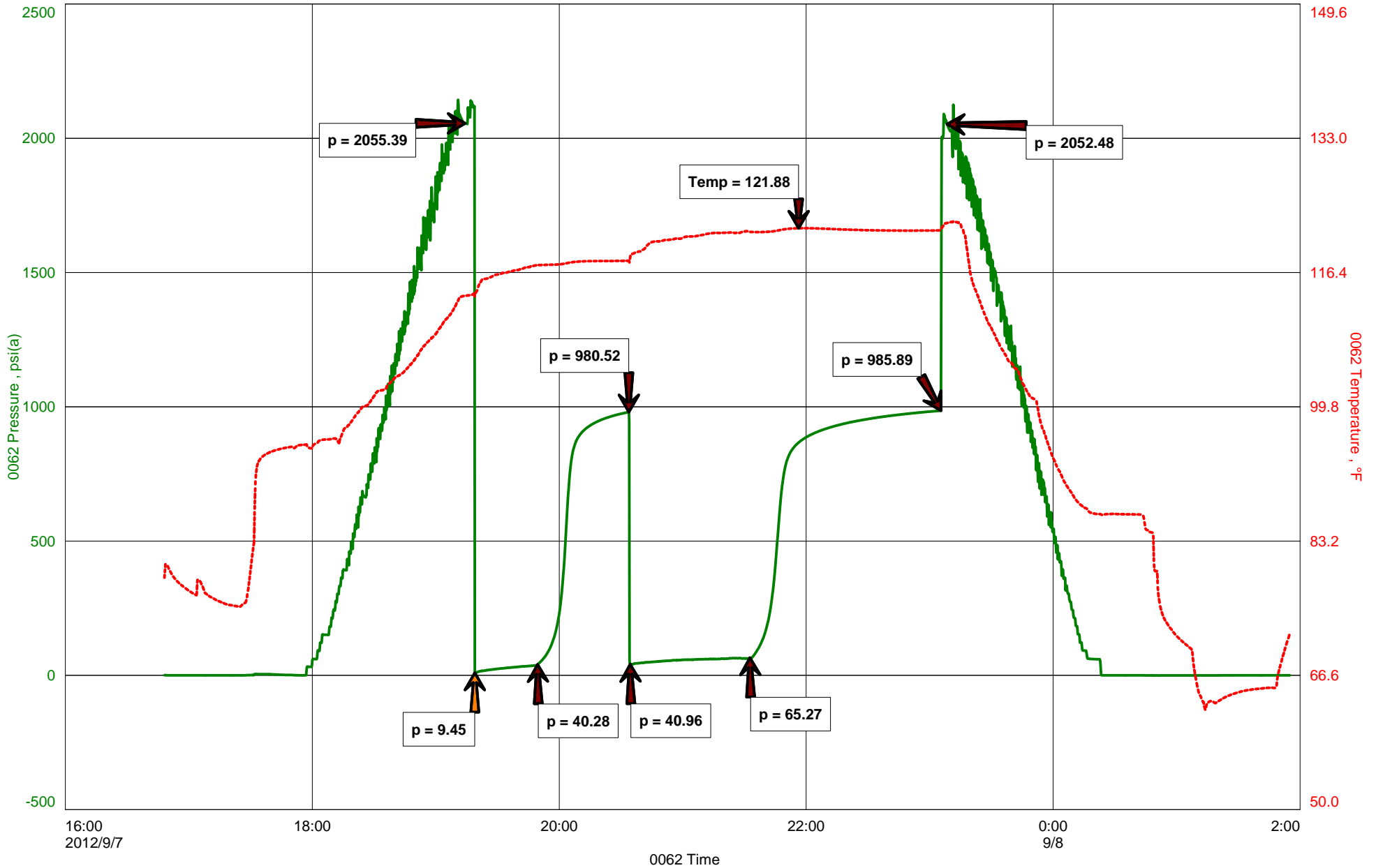
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Grand Mesa Operating Co.  
DST #3 Lower Ft. Scott 4366-4395  
Start Test Date: 2012/09/07  
Final Test Date: 2012/09/08

Mitch #1-34  
Formation: DSt #3 Lower Ft. Scott 4366-4395  
Pool: Wildcat  
Job Number: F010

# Mitch #1-34







# Diamond Testing General Report

**JAKE  
FAHRENBRUCH - TESTER  
Cell: (620) 282-8977**

P.O. Box 157  
Hoisington KS 67544  
Office: (800) 542-7313

## General Information

<b>Company Name</b>	Grand Mesa Operating Co.	<b>Well Name</b>	Mitch #1-34
<b>Well Operator</b>	Grand Mesa Operating Co.	<b>Unique Well ID</b>	DST #4 Johnson 4451-4500
<b>Contact</b>	Steve Stribling	<b>Surface Location</b>	Sec 34-13s-31w-Gove Co-KS
<b>Site Contact</b>	Kent Matson	<b>Test Unit</b>	No. 5
<b>Field</b>	Wildcat	<b>Pool</b>	Wildcat
<b>Well Type</b>	Vertical	<b>Job Number</b>	F011
<b>Prepared By</b>	Jake Fahrenbruch	<b>Qualified By</b>	Kent Matson

## Test Information

<b>Test Type</b>	Conventional	<b>Test Purpose</b>	Initial Test
<b>Formation</b>	DST#4 Johnson 4451-4500	<b>Gauge Name</b>	0062
<b>Start Test Date</b>	2012/09/08	<b>Start Test Time</b>	15:18:00
<b>Final Test Date</b>	2012/09/09	<b>Final Test Time</b>	01:31:00

## Test Results

<b>Recovered:</b>	170' in DP	Clean Gassy Oil	100% oil
	2760' in DP	Clean Gassy Oil	Dropped bar & reversed out to reserve pit.
	120' in DC	G&MCO	10% gas, 80% oil, 10% mud
	-----	1530' of Gas In Pipe	
	-----	Total Fluid Recovered: 3,050'	
	-----	Tool Sample: Clean Oil, 100% oil	
	-----	Gravity: 28.8 (corrected to 60 degF)	





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: \_\_\_\_\_

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

Company \_\_\_\_\_ Lease & Well No. \_\_\_\_\_  
Contractor \_\_\_\_\_ Charge to \_\_\_\_\_  
Elevation \_\_\_\_\_ Formation \_\_\_\_\_ Effective Pay \_\_\_\_\_ Ft. Ticket No. \_\_\_\_\_  
Date \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Range \_\_\_\_\_ W County \_\_\_\_\_ State **KANSAS**  
Test Approved By \_\_\_\_\_ Diamond Representative \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Bottom Recorder Depth (Outside) \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type \_\_\_\_\_ Viscosity \_\_\_\_\_ Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight \_\_\_\_\_ Water Loss \_\_\_\_\_ cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides \_\_\_\_\_ P.P.M. Drill Pipe Length \_\_\_\_\_ ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number \_\_\_\_\_ Test Tool Length \_\_\_\_\_ ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length \_\_\_\_\_ ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

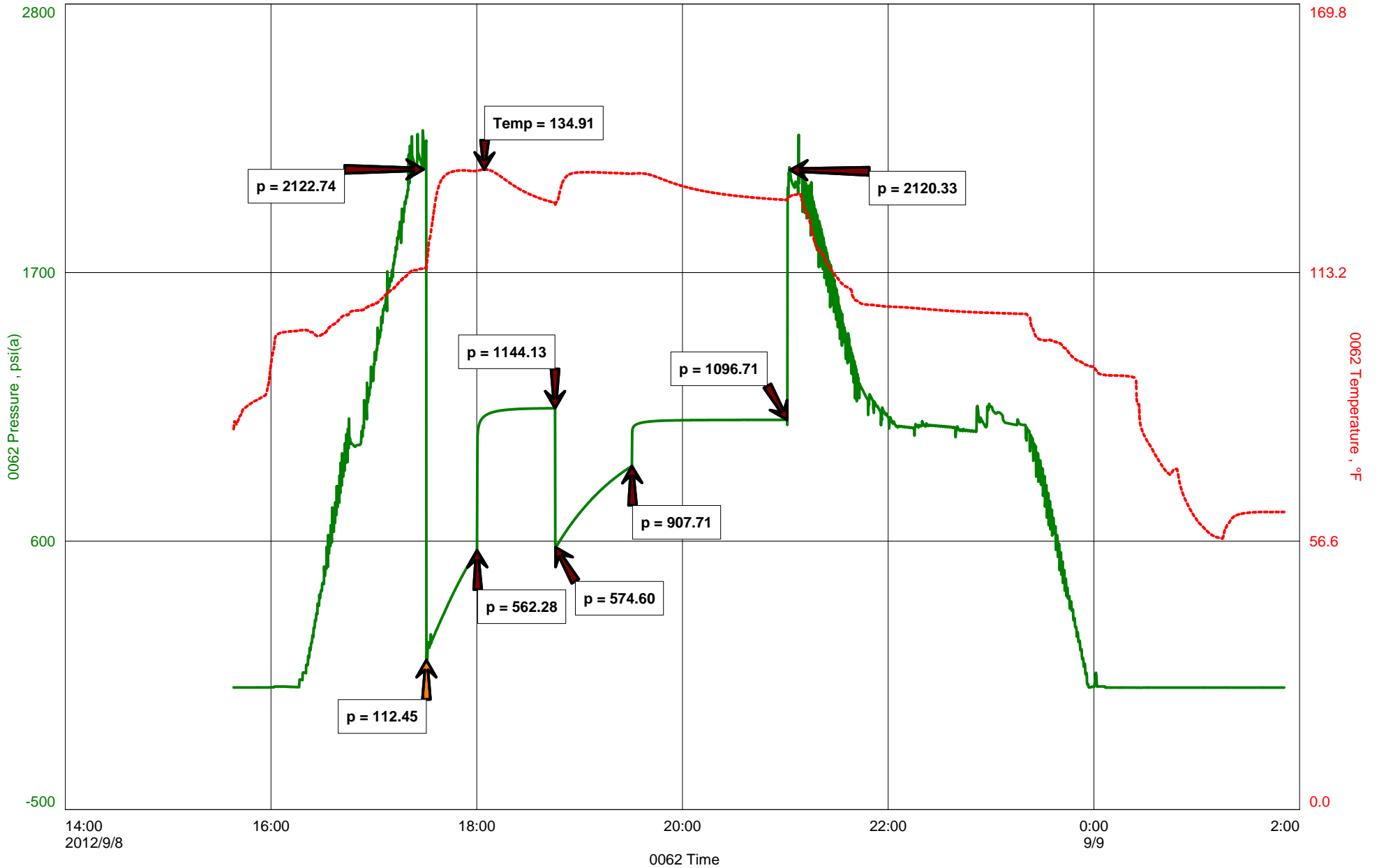
Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes \_\_\_\_\_ (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes \_\_\_\_\_ (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) \_\_\_\_\_ P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# Mitch #1-34



**GRAND MESA OPERATING COMPANY**

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

1700 N. WATERFRONT PARKWAY  
BLDG. 600  
WICHITA, KANSAS 67208-5514

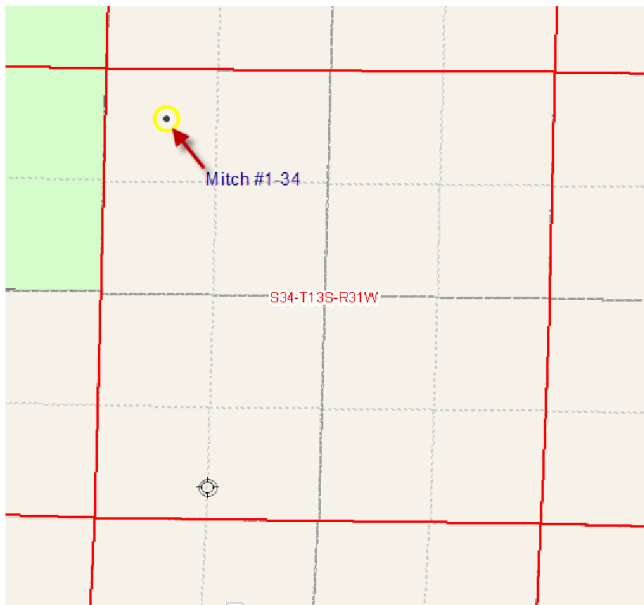
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Mitch #1-34  
 Location: 613' FNL, 743' FWL, 34-13s-31w, Gove County, Kansas  
 License Number: API: 15-063-22002      Region: Gove County  
 Spud Date: 08/31/2012      Drilling Completed: 09/09/2012  
 Surface Coordinates: Lat: 38.8940218  
 Long: -100.7438924  
 Bottom Hole Coordinates: Vertical hole  
 Ground Elevation (ft): 2839'      K.B. Elevation (ft): 2844'  
 Logged Interval (ft): 3800' To: RTD      Total Depth (ft): 4625'  
 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: Kent R. Matson  
 Company: Matson Geological Services, LLC  
 Address: 33300 W. 15th Street S.  
 Garden Plain, Kansas 67050  
 316-644-1975



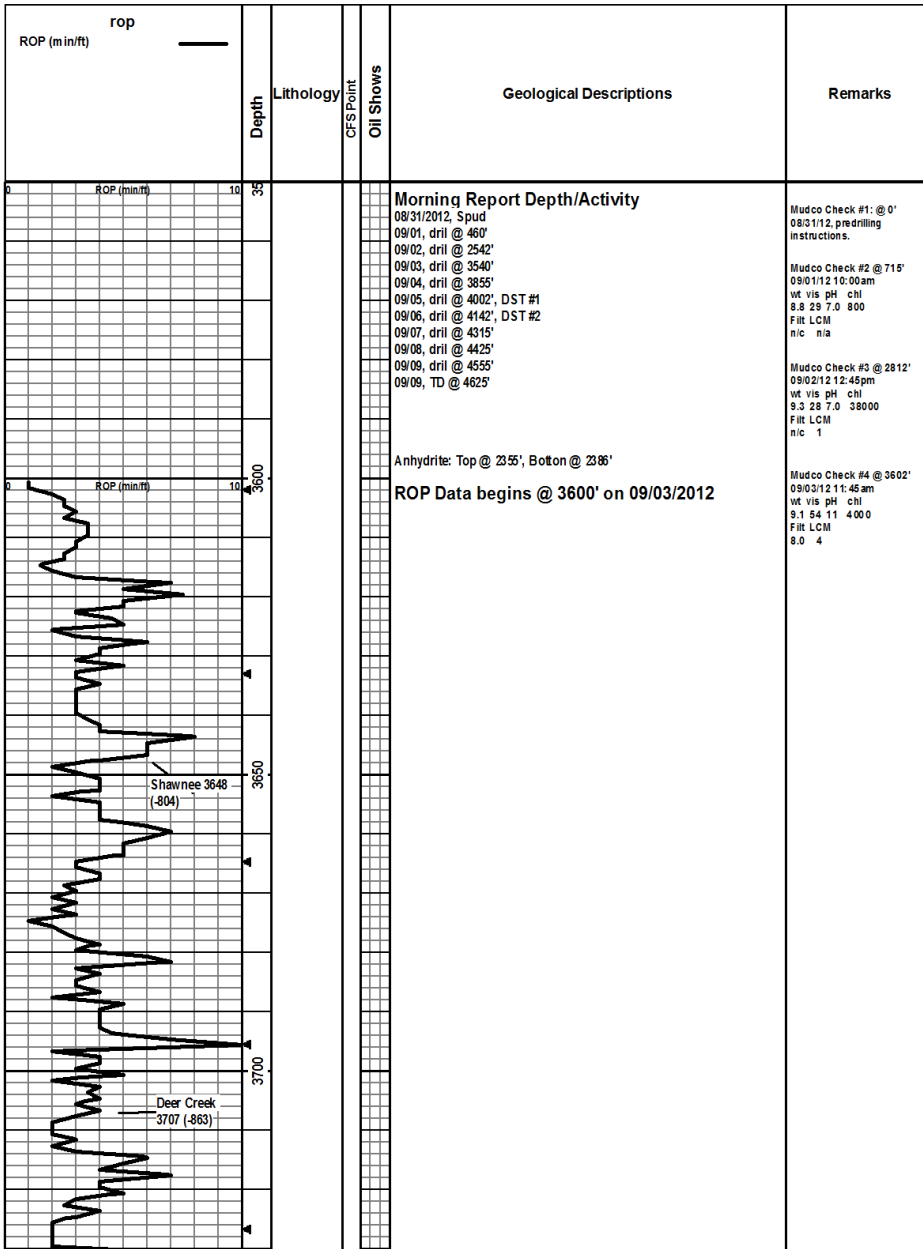
**COMMENTS**

Contractor: Murfin Drilling Company Rig #24  
 Pusher: Tony Martin  
 Surface Casing: 8 5/8" set at 219' (KB) w/165sx  
 Production Casing: Production casing (5.5") was installed to RTD, based on field observations of drill cuttings, DST results and electric log evaluation.  
 Mud by: MudCo  
 DST's by: Diamond Testing  
 Logs by: Weatherford (DIL, CN-CD, ML, Sonic)  
 RTD = 4625'  
 LTD = 4625'

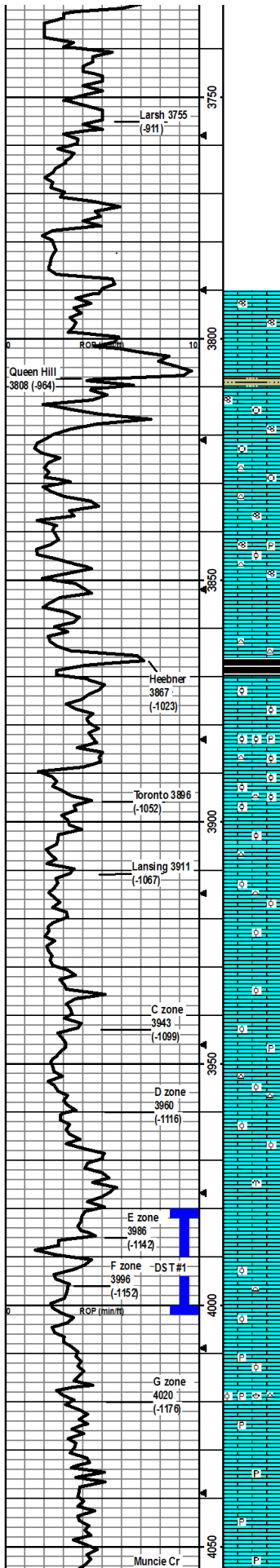
**FORMATION TOPS**

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Queen Hill	3808'	-964	3808'	-964

Heebner Shale	3867'	-1023	3868'	-1024
Toronto	3896'	-1052	3896'	-1052
Lansing	3911'	-1067	3911'	-1067
Muncie Creek Shale	4059'	-1215	4061'	-1217
Stark Shale	4149'	-1305	4150'	-1306
Hushpuckney Shale	4184'	-1340	4186'	-1342
Marmaton	4254'	-1410	4254'	-1410
Upper Fort Scott	4352'	-1508	4352'	-1508
Little Osage Shale	4372'	-1528	4373'	-1529
Excello Shale	4398'	-1554	4399'	-1555
Johnson Zone	4472'	-1628	4472'	-1628
Morrow	4496'	-1652	4493'	-1649
Mississippian	4524'	-1680	4525'	-1681
RTD	4625'	-1781		
LTD			4625'	-1781







Drill cutting samples at 10' intervals start at 3800'.

- LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusn, vry sdy, ppt-fn in-xtal por, ns.
- LS: crm/lt gry-gry, micro-med xtal, foss frags vry sdy, ppt-fn in-xtal por, ns.
- SH: lt-dk gry, vry silty, soft.
- LS: crm/lt brn/gry, micro-med xtal, foss frags/fusn/crin, some vry sdy, some ppt-fn in-xtal por, ns.
- LS: crm/lt brn/lt gry, micro-med xtal, foss frags/crin, min wht chert, min sdy pcs, some ppt-fn in-xtal por, ns.
- LS: crm/lt brn/gry, micro-med xtal, foss frags/fusn, min wht chert, some vry sdy pcs, some ppt-fn in-xtal por, ns.
- LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusn/min fn ool, stly pyritic, some vry sdy, min ppt-fn in-xtal por, ns.
- LS: crm/brn/gryish brn, micro-med xtal, foss frags, some vry sdy, min ppt-fn in-xtal por, ns.
- LS: crm/brn, micro-med xtal, foss frags, some wht/lt brn chert, some vry sdy, min frac/in-xtal por, ns.
- SH: dk gry-blk, stly carb, firm, fissile.
- LS: crm/lt gryish crm/lt brn/lt gry, micro-fn xtal, foss frags/min ool, some vry sdy, min frac por, ns.
- LS: crm/lt brn/lt gry, micro-med xtal, foss frags/some abund ool pcs, some vry sdy, stly pyritic, min wht chert, min in-xtal frac por, ns.
- LS: crm/lt brn, micro-med xtal, foss frags/abund ool, some wht chert, some in-xtal ool por, ns.
- LS: crm/lt brn, micro-med xtal, min foss frags/min ool, some wht chert, min ppt-fn in-xtal por, ns.
- LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags/some ool pcs, some wht chert, some wht chalky pcs, some ppt-fn in-xtal/ool por, ns.
- LS: crm/lt brn, micro-med xtal, min foss frags/some ool pcs, some wht chalky pcs, min in-xtal/frac por, ns.
- LS: crm/lt brn, micro-med xtal, some foss frags/ool, some vry sdy, min in-xtal por, ns.
- LS: crm/lt gry, micro-med xtal, foss frags/min ool, some wht chert, min pyritic, min ppt-fn in-xtal por, ns.
- LS: crm/lt brn, micro-med xtal, foss frags/ool, min lt brn chert, min ppt-fn in-xtal por, no odor, ns.
- LS: crm/lt brn, micro-fn xtal, foss frags/some ool, vry sdy, min ppt-fn in-xtal por, frac por, no odor, ns.
- LS: crm, micro-fn xtal, min foss frags/bryzn, min frac por, no odor, ns.
- LS: crm/lt brn, micro-fn xtal, min foss frags, ppt-med por, 28 pcs sfo in 4000' stop smpl, some chalky pcs, strg odor, yel flor/cut, chalky pcs cut when crushed, gsf.
- LS: crm/lt brn, micro-med xtal, foss frags/ool, min lt brn chert, 21 pcs in 30 min smpl and 19 pcs in 60 min w/sfo, some chalky pcs, ppt-fn in-xtal por, strg odor, yel flor/cut, chalky pcs cut when crushed, gsf.
- LS: crm/lt brn, micro-med xtal, min foss frags w/some ool, some wht chalky pcs, 2 ool pcs w/sfo, min frac/in-ool por, sit cups like ka odor, yel flor/cut, s sfo.
- LS: wht/crm/lt brn, micro-fn xtal, stly pyritic, min foss frags/2 ool pcs w/sfo in 30 min smpl and ns in 60 min, mostly dense w/min frac/in-ool por; sit cups like ka odor, yel flor/cut, s sfo.
- LS: crm/lt brn, micro-med xtal, min foss frags/brn/ool, grainy, pyritic, min wht chert, min frac por/w one pcs fn por w/sfo, yel flor/cut, crush odor, vs sfo.
- LS: crm/lt gry/lt brn, micro-med xtal, min foss frags, some wht chalky pcs, some pyritic, no odor, ns.
- LS: crm/lt gry, micro-fn xtal, min foss frags, stly pyritic, some grainy pcs, min frac por, no odor, ns.
- LS: wht-crm/lt gry, micro-fn xtal, min foss frags, stly pyritic, some stly chalky easily crushed pcs, min frac por, no odor, ns.
- LS: crm/lt gry, micro-fn xtal, min foss frags, stly pyritic, dense w/min frac por, no odor, ns.

Mudco Check #5 @ 3950'  
09/04/12 01:15pm  
wt vis pH chl  
9.2 54 9.5 7000  
Filt LCM  
8.0 3

CFS @ 3950'  
30"60"

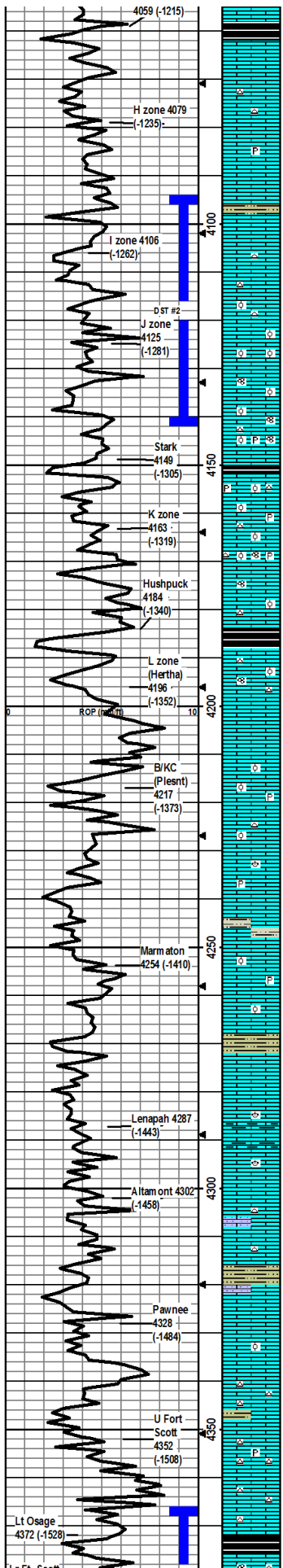
CFS @ 3968'  
30"

**DST1) 3980-4002**  
**E-Zone**  
30456090  
1st) Weak surface blow built to 4.75", no BB.  
2nd) Weak surface blow built to 11", no BB.  
IF P 9-31#  
ISIP 920#  
FFP 32-58#  
F SP 920#  
HP 1893-1883#  
Rec'd: 18' GIP, 95' CO, 40' SGC MO.

CFS @ 4002'  
30"60"

CFS @ 4015'  
30"60"

Mudco Check #6 @ 4015'  
09/05/12 12:00pm  
wt vis pH chl  
9.2 67 9.5 6000  
Filt LCM  
8.0 2



nae por, no odor, ns.

SH: blk, carb, firm, fissile.

LS: crm/lt gry/lt-dk brn, micro-med xtal, min foss frags, min frac por, no odor, ns.

LS: crm/lt gry/lt-med brn, micro-med xtal, foss frags, wht chert, no vis por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/fusin, stly pyritic, min frac por, no odor, ns.

LS: crm-lt grysh crm/lt-med brn, micro-med xtal, some foss frags, some stly chalky pcs, min frac por, no odor, ns.

SH: lt gry, soft some carb, vry silty.

LS: crm/lt gry/lt-med brn, micro-med xtal, foss frags/crin, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-fn xtal, min foss frags, 5 wht chalky pcs w/sfo when crushed in 30 min smpl, ns in 60 min smpl, some wht chert, min frac por, yel flourcut when crushed, sfo.

LS: crm, micro-med xtal, foss frags/abund ool, some wht chert, 10 pcs w/ppt-med in-ool por, stt crush odor, yel flourcut, gsfo.

LS: crmit brnlt gry, micro-med xtal, foss frags/abund ool, 11 pcs w/ppt-med in-ool por, stt crush odor, yel flourcut, gsfo.

LS: crm/lt gry, micro-med xtal, foss frags/fusin/ool, 8 pcs in 30 min smpl and 4 pcs in 60 min w/ppt-med in-ool por, stt crush odor, yel flourcut, gsfo.

LS: crmit brnlt gry, micro-med xtal, foss frags/fusin/ool, wht chert, stly pyritic, mostly dense w/min ppt-fn in-xtal por, 2 pcs w/sfo, no odor, yel flourcut, s/sfo.

SH: dk gry/blk, carb, gas bubbles when broken, firm, fissile.

LS: crm/lt gry/lt-med brn, micro-med xtal, foss frags/ool, some wht/crm/lt gry chert, min pyritic, min frac por w/2 ool pcs in 30 min smpl of fn in-ool por, yel flourcut, no odor, s/sfo.

LS: crmit gry/lt-med brn, micro-med xtal, foss frags/min fusin/ool, wht chert, wht chalky pcs, stly pyritic, min frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal, foss frags/fusin/ool, min lt gry chert, some wht chalky pcs, min frac por, no odor, ns.

SH: dk gry/blk, carb, firm-hard, fissile.

LS: crm/lt gry/lt-med brn, micro-fn xtal, foss frags w/min fusin/ool, wht/lt gry chert, min frac por, no odor, ns.

LS: lt grysh brn/lt-dk brn, micro-fn xtal, foss frags, min frac por, no odor, ns.

LS: lt gry/lt-med brn, micro-med xtal, min foss frags w/some grainy ool pcs, some wht chalky pcs, min pyritic, min frac por, no odor, ns.

LS: crm/lt gry/lt-med brn, micro-fn xtal, min foss frags, min lt gry chert, min frac por, 1 ool pce w/min in-ool por w/sfo (poss from above), no odor, ns.

LS: crm/lt gry, micro-fn xtal, some vry silty, min foss frags/brac, stly pyritic, min fn in-xtal/frac por, no odor, ns.

LS/SS mix: LS is crm/lt gry, micro-fn xtal, some vry silty, min foss frags, min ppt in-xtal por; SS is gry/red brn, v-f, ws, qtz, carb matrix, hard, friable, no odor, ns.

LS: crm, micro-fn xtal, stly pyritic, min foss frags/min dense ool pcs, min frac por, no odor, ns.

LS: crm/lt gry/lt-med brn, fn-med xtal, some wht chalky pcs, some silty, foss frags/min ool, min ppt in-xtal/frac por, no odor, ns.

SH: lt-med gry/red brn, vry silty, soft-firm, carb.

LS: crm/lt gry/lt-med brn, micro-fn xtal, min foss frags, no vis por, no odor, ns.

LS: crm/lt gry/yel brn, fn-coarse, foss frags/brac, some sndy, some w/yel SH inclusions, min frac por, no odor, ns.

Same as above w/some wht chalky pcs.

LS: crm/lt brn/lt gry w/red brn mottling, fn-med xtal, min foss frags, some vry sndy, min lt gry chert, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, some vry sndy, min wht/lt brn chert, min frac por, no odor, ns.

SH: lt greenish gry/gry, some vry silty, soft-firm.

LS: crm/lt gry, micro-fn xtal, min foss frags, some vry sndy, min frac por, no odor, ns.

LS: crm/lt brn, micro-fn, min foss frags/ool, min frac por, no odor, ns.

LS: crm, micro xtal, wht/lt gry chert, min frac por, some lt-dk gry firm SH some vry silty, no odor, ns.

LS: crm/lt-med brn, micro-fn xtal, some foss frags, wht/lt gry/lt brn chert, min pyritic, min frac por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, some foss frags, lt-med gry chert, some sndy pcs, min pyritic, min frac por, no odor, ns.

SH: med-dk gry/blk, some vry silty pcs, carb, firm-vry firm.

LS: lt-med brn, micro-med xtal, foss frags/fusin, some lt brn chert, stly

**DST2) 4094-4142  
I & J Zones**

30456090  
1st) Weak surface blow built to 3", no BB.  
2nd) Weak surface blow after 13 min built to 3.5", no BB.  
IFP 10-51#  
ISIP 1144#  
FFP 54-87#  
FSP 1138#  
HP 1934-1927#  
Recvd: 45" HWCM, 120" MCW

CFS @ 411' 30" 60"

Mudco Check #7 @ 4142'  
09/06/12 09:00am  
wt vis pH chl  
9.2 5.7 10.5 4000  
FIL LCM  
8.0 3

CFS @ 4142' 30" 60"

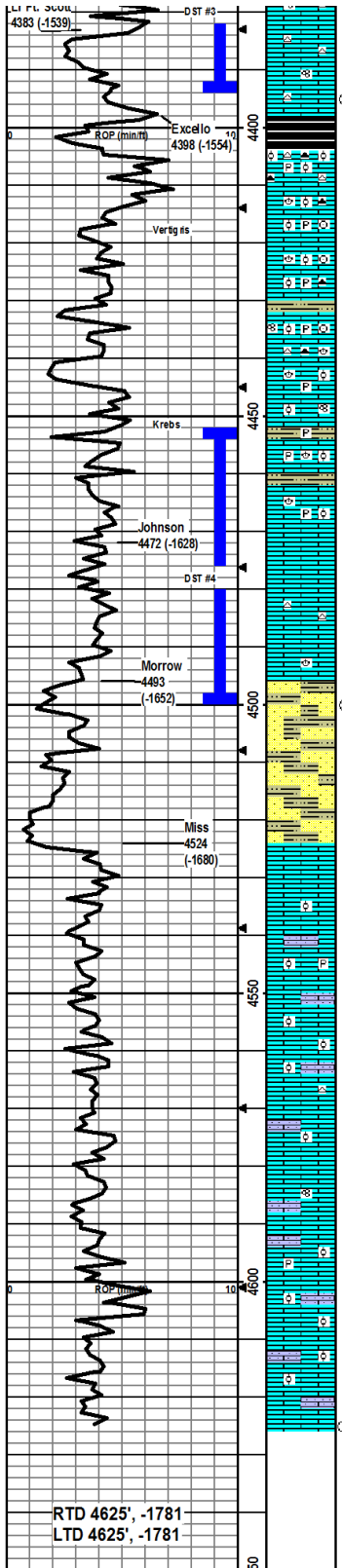
CFS @ 4167' 30" 60"

CFS @ 4215' 30" 60"

Mudco Check #8 @ 4304'  
09/07/12 06:20am  
wt vis pH chl  
9.2 4.9 11.0 9000  
FIL LCM  
7.6 3

**DST3) 4366-4395  
Lr Ft Scott**

30456090  
1st) Weak surface blow built to 5.25", no BB.  
2nd) Weak surface blow built to 11", no BB.  
IFP 9-40#  
ISIP 981#  
FFP 41-65#  
FSP 888#  
HP 2055-2052#



pyritic, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, foss frags/fusln, abund wht/lt gry chert, 3 pcs in stop smpl w/ppt-fr por w/sfo, 29 pcs in 30 min smpl and 18 pcs in 60 min w/ppt-med por w/sfo, yel flor/cut, sit cup odor in stop, strg cup odor in 30 and 60 min, vgsfo.

SH: dk gry/blk, some silty, carb, firm-hard, fissile.

LS: crm/lt-med brn, micro-med xtal, foss frags/abund ool, abund wht/brn pyritic ool chert, no vis por, no odor, ns.

LS: lt-med brn/gry, micro-med xtal, foss frags/crin/brac/ool, stly pyritic, brn chert, some chalky ool pcs easily crushed, min frac por, no odor, ns.

LS: same as above.

SH: lt-dk gry, some vry silty, soft-firm fissile, stly carb.

LS: crm/lt-dk brn/gry, micro-med xtal, foss frags/brac/min ool, ltgry/ool brn chert, stly pyritic, min frac por, no odor, ns.

LS: lt gry/lt-med brn, micro-med xtal, some foss frags/brac/fusln/ool, stly pyritic, some wht chalky pcs, min frac por, sit cup odor (poss from above), ns.

SH: lt-dk gry, some vry silty, stly carb, some pyritic, soft-firm.

LS: crm/lt-med brn/gry, micro-med xtal, foss frags/brac/ool, some silty/sndy, some pyritic, min in-xtal frac por, no odor, ns.

SH: greenish gry/lt-med gry, vry silty, carb, soft.

LS: crm/lt-dk brn, micro-med xtal, foss frags/brac/min ool, stly pyritic, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags, ppt-med w/some vug por, strg cup odor, 33 pcs sfo, yel flor/cut, vgsfo.

LS: crm/lt gry/lt-med brn, micro-med xtal, foss frags, stly pyritic, some wht chert, some chalky, ppt-med w/some vug por, strg cup odor, 31 pcs sfo, yel flor/cut, vgsfo.

LS: crm/lt brn, micro-med xtal, min foss frags/brac, min wht chalky pcs, ppt-med w/some vug por; strg cup odor in 30 and 60 min smpls, 11 pcs in 30 min smpl 12 pcs in 60 min smpl w/sfo, yel flor/cut, vgsfo.

SH/SS mix: SH is greenish gry/lt-dk gry/mustard yel, some vry silty, soft-firm, ns; SS is wht/gry/brn, pred qtz, vf-f, sr-wr, arg, firm but friable, ns.

SH/SS mix: SH is greenish gry/maroon gry/lt-dk gry/mustard yel, some vry silty, soft-firm; SS is wht sugar/lt gry/red brn, pred qtz w/carb matrix, vf-f, sr-wr, soft-hard, friable, no odor, ns.

LS: crm/lt brn, micro-fn xtal, some w/good 2ndry xtal, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-fn xtal, min foss frags/min fn ool, min frac por, no odor, ns.

LS: lt brn/lt gry, micro-fn xtal, min fn ool, some sndy w/vf-med qtz, stly pyritic, some chalky pcs, no vis por, no odor, ns.

LS: crm/lt brn, some micro-xtal/some micro-med xtal, some gd 2dry xtal, some abund fn ool pcs, some vry sndy w/fn-c qtz, no vis por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some w/fn-med ool, some vf sandy pcs, min ltbrn/orange chert, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, some fn-med ool pcs, some vry sndy, min frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags/fusln, some vry sndy pcs, some wht chalky pcs, min frac por, no odor, ns.

LS: wht/crm/lt-med brn, micro-med xtal, min fn ool, some vry sndy, stly pyritic, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-med xtal, some fn-med ool, some vry sndy pcs, some wht chalky pcs, min frac por, no odor, ns.

LS: crm/lt gryish crm/lt-med brn, micro-med xtal, some fn-med ool, vry sndy, min frac por, no odor, ns.

LS: crm/lt-med brn, micro-fn xtal, some vry sndy pcs, min frac por, no odor, ns.

Recvd: 160' GIP,  
80' MO (56% O), 60' MCO  
(90% O).

CFS @ 4395'  
30°/60°

Mudco Check #9 @ 4440'  
09/08/12 08:00am  
wt vis pH chl  
9.2 55 11.0 4400  
F# LCM  
8.0 3

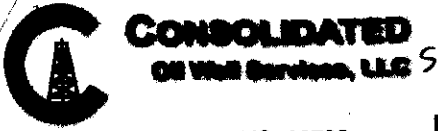
**DST6) 4451-4500**  
**Johnson**  
3045/4550  
1st) Strg blow built to BOB in  
2 min, BOB BB in 10 min.  
2nd) Strg blow built to BOB in  
2.25 min, BOB BB in 11 min.  
IFP 112-562#  
ISIP 1144#  
FFP 575-908#  
FSP 1097#  
HP 2123-2120#  
Recvd: 1530' GIP, 2930' COO,  
120' G&MCO.

CFS @ 4500'  
30°/60°

Mudco Check #10 @ 4557'  
09/09/12 07:30am  
wt vis pH chl  
9.0 55 10.5 5000  
F# LCM  
7.2 3

CFS @ 4625', 30°/60°,  
Cir 1.5 hrs total to clean hole.

RTD 4625', -1781  
LTD 4625', -1781



PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 37145  
LOCATION Oakley KS  
FOREMAN Miles Shaw

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8/31-12	3372	Mitch # 1-34	34	135	8/W	Gove
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Grand Mesa Operating			463	Car D		
Mailing Address			560	Jordan L		
CITY	STATE	ZIP CODE				

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 219 CASING SIZE & WEIGHT 1 3/8 23#  
 CASING DEPTH 219.08 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 12 3/4 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_  
 REMARKS: Safety Meetings and Rig up on Martin Drilling #24 Circulate casing  
Mix 105 Sls Common with 3% Calcium 28 gal displaced 12 3/4 bbls Water  
Shut in Cement did Circulate Approx 20 bbls to pit

*Thanks Miles & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
		PUMP CHARGE	1085. <sup>00</sup>	1085. <sup>00</sup>
5405			51. <sup>00</sup>	75. <sup>00</sup>
5406	15	MILEAGE	410. <sup>00</sup>	410. <sup>00</sup>
5407	7.75 TONS	Ten mileage delivery min	17.65	292.25
11645	165 SLS	Common class of cement	.89	413.85
1102	465 #	Calcium Chloride	.25	77.50
1119B	310 #	Bentonite gel		
			Subtotal	4973.60
			less 10% discount	4973.60
			Subtotal	4476.24
			SALES TAX	246.59
			ESTIMATED TOTAL	4722.83

**Completed**

RAVIN 3737  
 AUTHORIZATION Anthony Martin TITLE Pusher Rig #24 DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

252577

JOB LOG

SWIFT Services, Inc.

DATE 9-10-12 PAGE NO. 7

CUSTOMER *Grand Mesa Oil* WELL NO. *124* LEASE *Mitch* JOB TYPE *Cement Longstring* TICKET NO. *92827*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD #25' DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0230							On location w/ float equip R/L D.D.C.
	0415							Start 5 1/2 15.5 #ft casing to 4624'
								Insert float shoe w/ fill up
								LP Baffle - SJ - 11' @ 4613' (109 3/4 BBL)
								Cent 2-4-6-8-10-12-14-16-53
								Cut Resisters #3 x 54 Fin end
								D.V. collar #54 @ 2360' (NO Scratchers)
								Drop fill-up ball 5 str out (56881)
	0600							Fin run casing
	0630							Start circ / Rotate casing (Pipe not full)
								Fin circ - Hook up for 1st stage
		5	12	32			350	Pump 500 gal Mucal flush
		6	20	32			700	Pump 20 BBL HCL flush
		7					350	Pump 175 SKS EM-2-cent
			42				Var	Fin cent - wash Pump & Lines
		9						Drop L.D DU Plug - Start Displ H <sub>2</sub> O 54 BBL
		7	54					Start Mucal 56 BBL
	0730		110				850 / 1500	Plug Down - 1st Stage - Drop D.V. opening tool
	0750						1200	Open D.V. w/ TRK - (Then Res circ & HR)
	0800							Wash up P.T.
	1000		7	5				Fin circ - start 2nd stage
								Plug RH - 30 SKS MH 20 SKS sand out
		6	20					Pump 20 BBL HCL flush
								Start 150 SKS sand out
							Var	Fin cent
		5					250	Drop D.V. Closing Plug - Start Displ
	11:00		20	56			700 / 1400	Plug Down - 30 SKS out circ top it
							0	Job Complete
								Wash up & Pack up
	11:45							Alan, Brian & Paul & Flint



# Pro-Stim Chemicals, LLC

P.O. Box 25  
Cheyenne Wells, CO 80810

OCT 26 2012

# Treat Invoice

Date	Invoice #
10/22/2012	71119

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

Ship To

Requested By	Terms	Ship	Lease
	Net 30	10/16/2012	MITCH #1-34

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	[REDACTED]	[REDACTED]
30	KCL BIOCIDE - 2%	BRLS		
1	DUMP JOB	HOURS		
3.5	TRUCK TIME	Sales Tax - GOVE CO.		

			<b>Total</b>	[REDACTED]
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Phone #	Fax #	E-mail
719-767-8071	719-767-5925	prostim@hotmail.com

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  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 09, 2012

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

Re: ACO1  
API 15-063-22002-00-00  
Mitch 1-34  
NW/4 Sec.34-13S-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