



**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: \_\_\_\_\_



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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	E & E 1-34
Doc ID	1067021

All Electric Logs Run

CPDCN Microresistivity Log
AI Shallow Focussed Elect. Log
Microresistivity Log
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	E & E 1-34
Doc ID	1067021

Tops

Name	Top	Datum
Bs/Stone Corral	2380	+499
Heebner	3859	-980
Lansing	3904	-1025
Muncie Creek	4061	-1182
Stark	4147	-1268
Hushpuckney	4180	-1300
Marmaton	4246	-1367
Little Osage	4376	-1497
Morrow	4504	-1625
Mississippian	4534	-1655
LTD	4651	

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	E & E 1-34
Doc ID	1067021

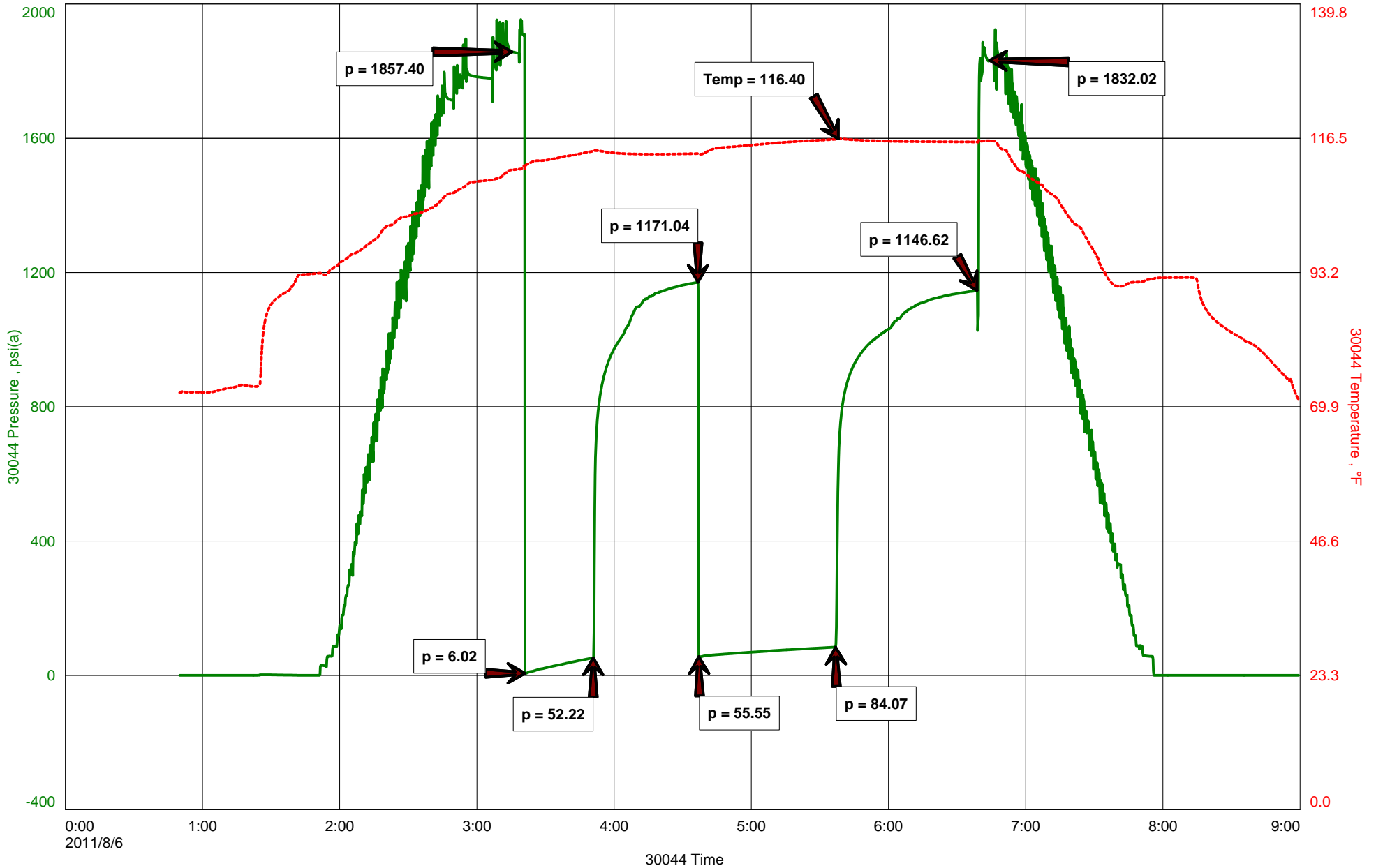
Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4478-4484	250gals RWR-1 15% w/additives	4478-4484
4	4388-4397	1,000gals 15% HCl w/additives	4478-4484
4	4351-4357	250gals RWR-1 15% w/additives	4388-4397
		750gals RWR1 15% w/additives	4388-4397
		250gals RWR-1 15% w/additives	4351-4357
		400gals RWR-1 15% w/additives	4351-4357

GRAND MESA & RAYMOND OIL  
DST#1 3920-3942 C-ZONE  
Start Test Date: 2011/08/06  
Final Test Date: 2011/08/06

E&E #1-34  
Formation: DST#1 3920-3942 C-ZONE  
Pool: WILDCAT  
Job Number: M189

# E&E #1-34



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M189
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3920-3942 C-ZONE	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3920-3942 C-ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/06	Start Test Time	00:50:00
Final Test Date	2011/08/06	Final Test Time	09:00:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
1' CO  
177' SOCMW 5% OIL, 71% WTR, 24% MUD  
178' TOTAL FLUID

CHLOR: 18,000 PPM  
PH: 8.0  
RW: .24 @ 84 DEG

TOOL SAMPLE: 85% WTR, 15% MUD, THICK SCUM OF OIL



**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.

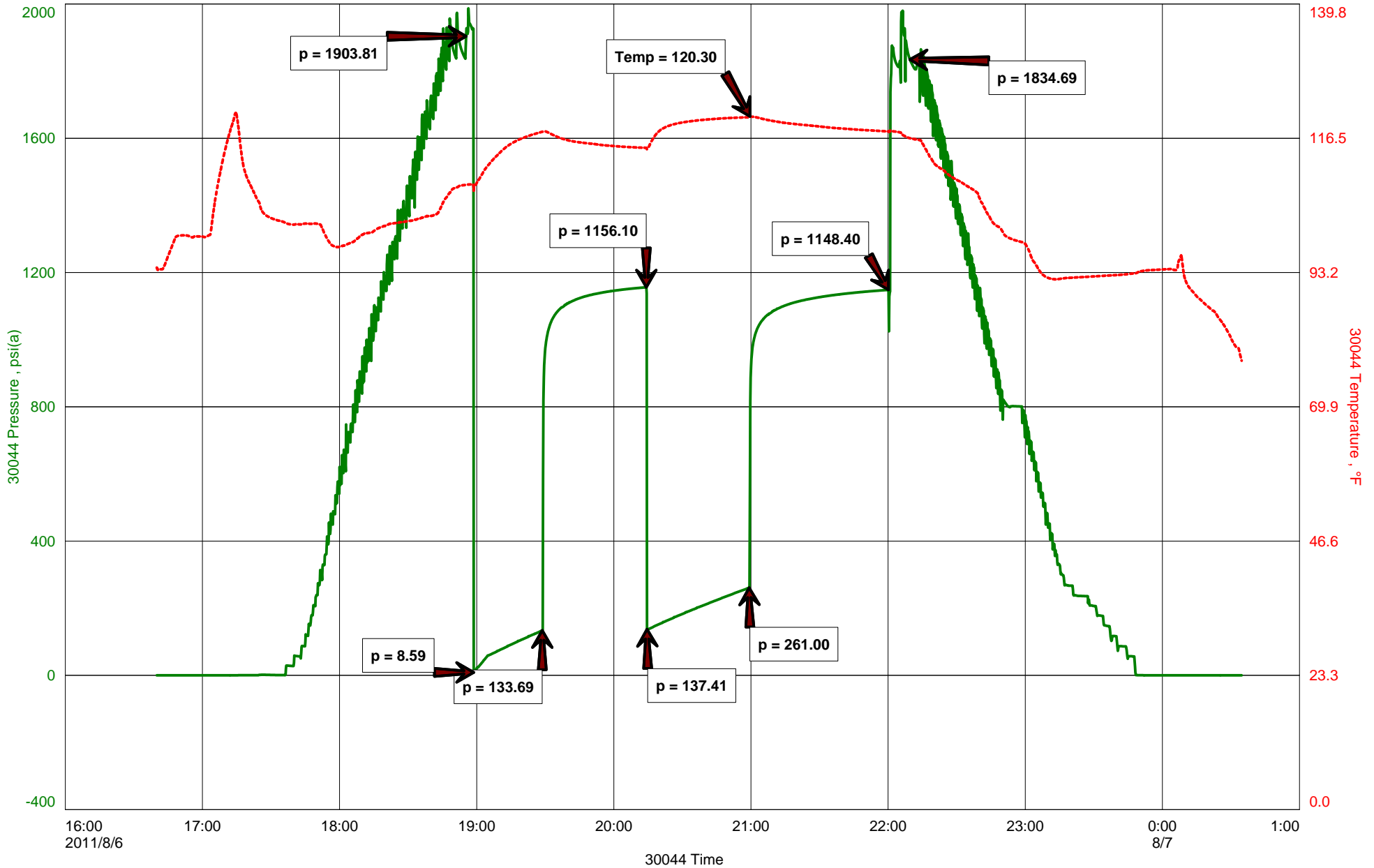
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GRAND MESA & RAYMOND OIL  
DST#2 3944-3962 D-ZONE  
Start Test Date: 2011/08/06  
Final Test Date: 2011/08/07

E&E #1-34  
Formation: DST#2 3944-3962 D-ZONE  
Pool: WILDCAT  
Job Number: M190

# E&E #1-34



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M190
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3944-3962 D-ZONE	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 3944-3962 D-ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/06	Start Test Time	16:40:00
Final Test Date	2011/08/07	Final Test Time	00:35:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
565' GMW 1% GAS, 95% WTR, 4% MUD  
565' TOTAL FLUID

CHLOR: 34,000 PPM  
PH: 8.0  
RW: .22 @ 77 DEG

TOOL SAMPLE: SALT WATER W/ SPECKS OF OIL, GASSY ODOR



**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.

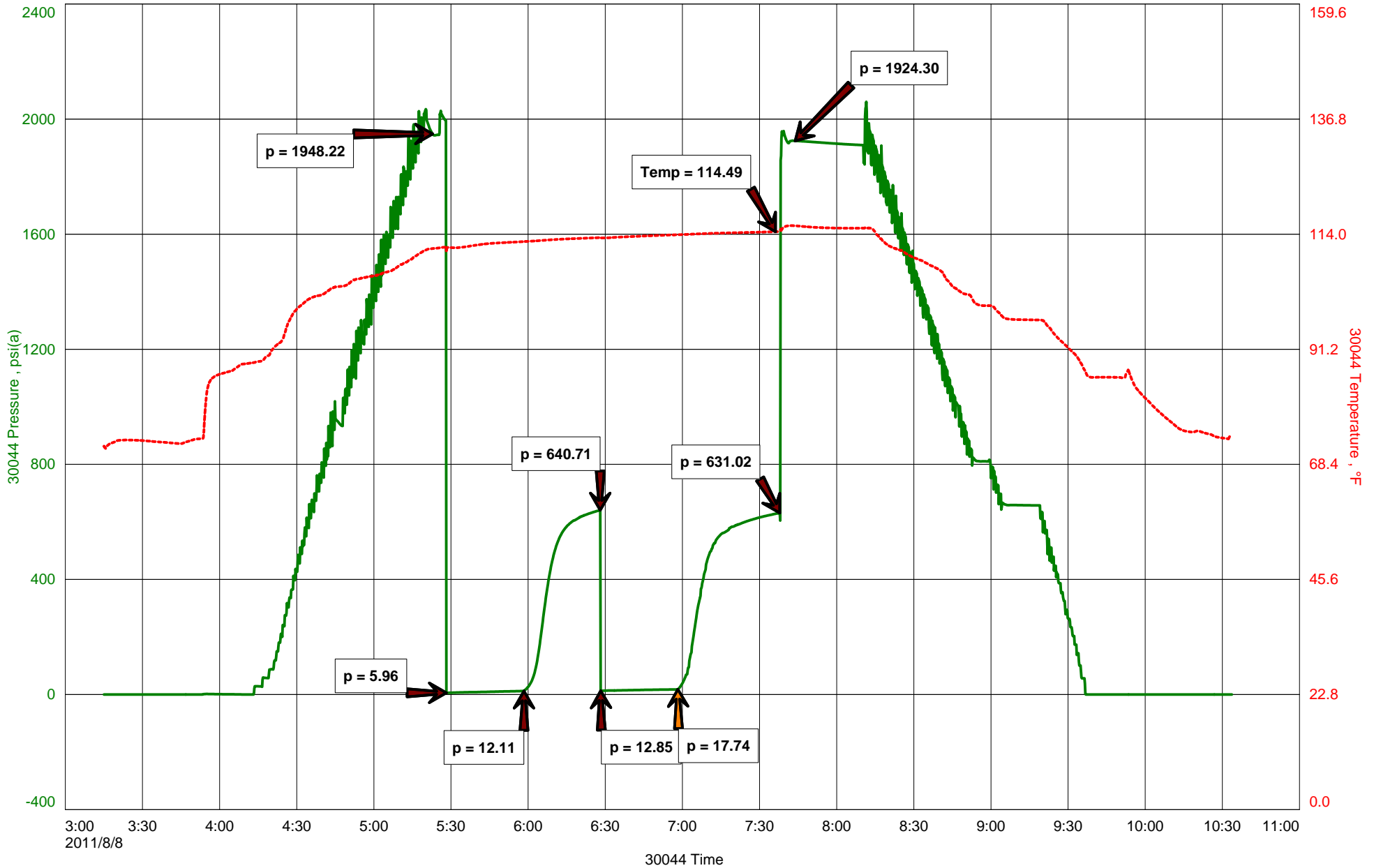
Blow: 1st Open: \_\_\_\_\_  
2nd Open: \_\_\_\_\_

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

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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# E&E #1-34



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M191
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4086-4142 I&J-ZONE	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/08
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4086-4142 I&J-ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/08	Start Test Time	00:55:00
Final Test Date	2011/08/08	Final Test Time	08:15:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
5' DM 100% MUD  
5'TOTAL FLUID

TOOL SAMPLE: DRLG MUD W/ A FEW SPOTS OF OIL, FAINT ODOR



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

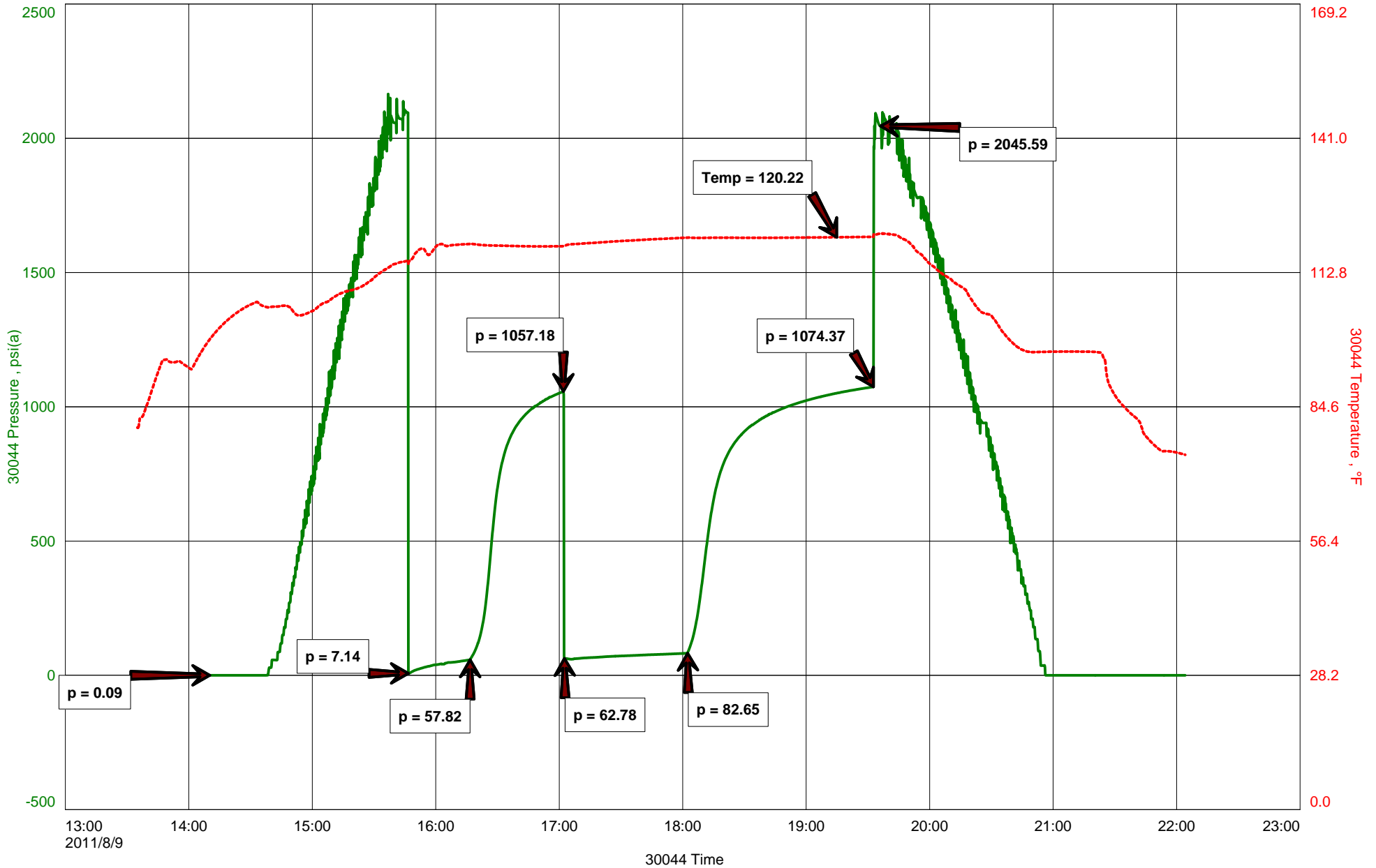
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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 & RAYMOND OIL  
DST#4 4310-4360 PAWNEE & UPPER FT. SCOTT  
Start Test Date: 2011/08/09  
Final Test Date: 2011/08/09

E&E #1-34  
Formation: DST#4 4310-4360 PAWNEE & UPPER FT. SCOTT  
Pool: WILDCAT  
Job Number: M192

# E&E #1-34



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M192
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#4 4310-4360 PAWNEE & UPPER FT. SCOTT	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/09
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#4 4310-4360 PAWNEE & UPPER FT. SCOTT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/09	Start Test Time	13:35:00
Final Test Date	2011/08/09	Final Test Time	22:05:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
280' GIP  
12' CO  
108' GHOCWM 12% GAS, 27% OIL, 20% WTR, 41% MUD  
30' GMW 6% GAS, 49% WTR, 45% MUD, THIN SCUM OF OIL  
150' TOTAL FLUID

GRAVITY: 29.2 @ 60 DEG.

CHLOR: 29,000 PPM  
PH:7.5  
RW: .27 @ 69 DEG

TOOL SAMPLE: 4% GAS, 18% OIL, 33% WTR, 45% MUD





**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.



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

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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# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M193
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#5 4370-4396 LOWER FT. SCOTT	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/10
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 4370-4396 LOWER FT. SCOTT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/10	Start Test Time	08:55:00
Final Test Date	2011/08/10	Final Test Time	18:00:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

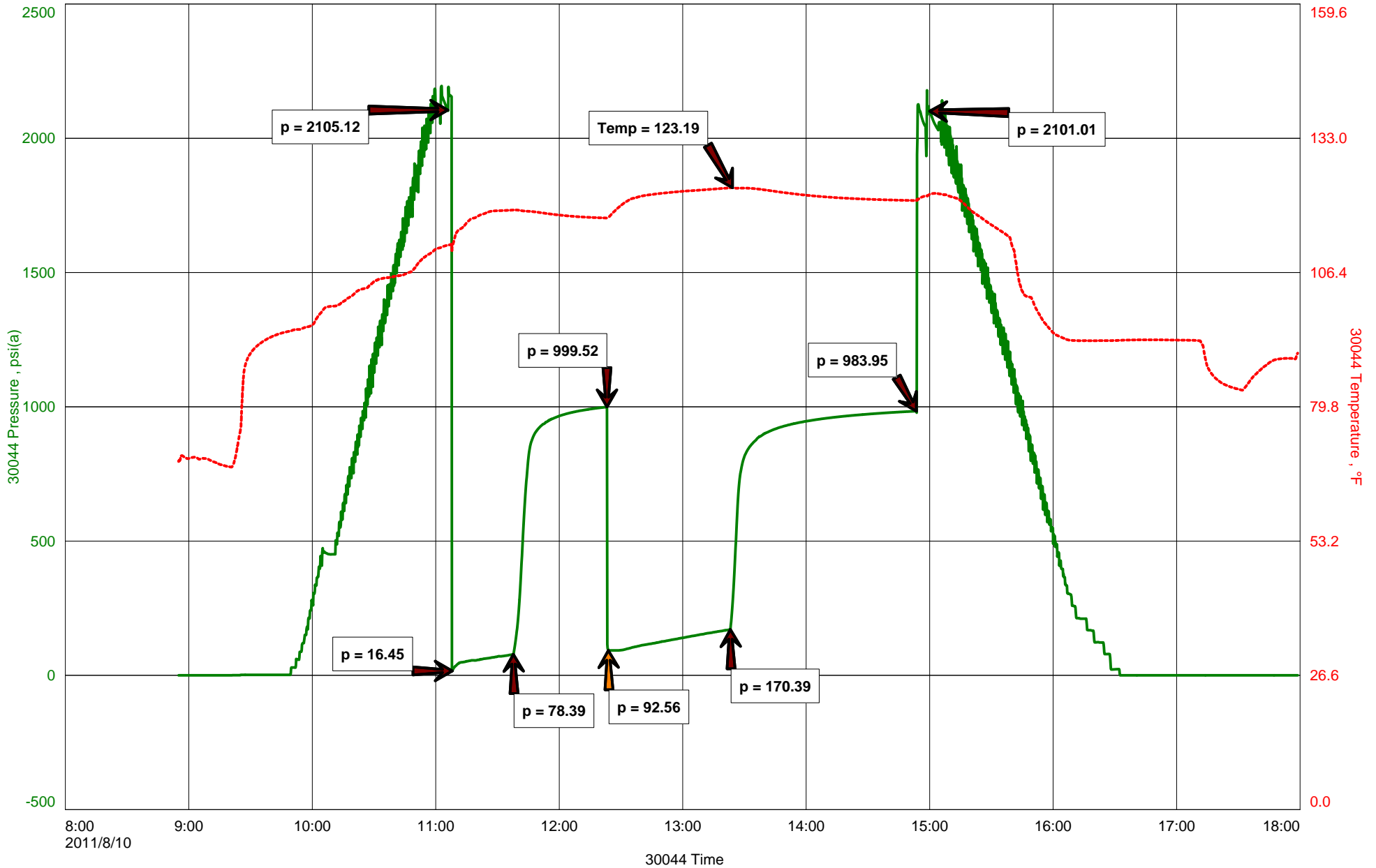
RECOVERED:  
2687 GIP  
281' GO 4% GAS, 96% OIL,  
156' GMCO 18% GAS, 68% OIL, 14% MUD  
118' GMO 5% GAS, 91% OIL, 4% MUD  
555' TOTAL FLUID

TOOL SAMPLE: MOSTLY GAS & OIL W/ CHUNKS OF MUD

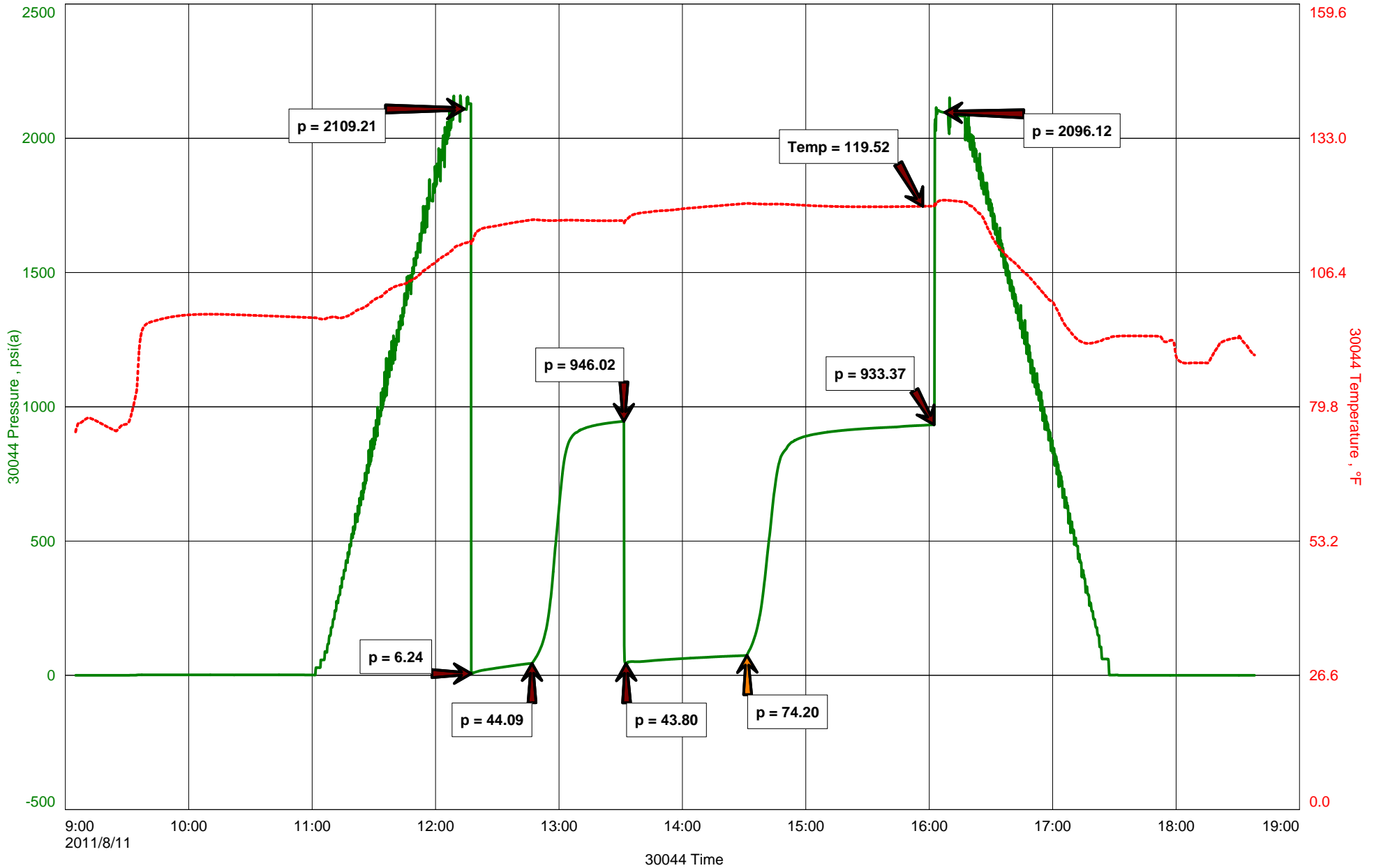
GRAND MESA & RAYMOND OIL  
DST#5 4370-4396 LOWER FT. SCOTT  
Start Test Date: 2011/08/10  
Final Test Date: 2011/08/10

E&E #1-34  
Formation: DST#5 4370-4396 LOWER FT. SCOTT  
Pool: WILDCAT  
Job Number: M193

# E&E #1-34



# E&E #1-34



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA & RAYMOND OIL	Job Number	M194
Well Name	E&E #1-34	Representative	MIKE COCHRAN
Unique Well ID	DST#6 4450-4492 KREBS & JOHNSON	Well Operator	GRAND MESA & RAYMOND OIL
Surface Location	SEC.34-13S-32W LOGAN CO.KS.	Report Date	2011/08/11
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#6 4450-4492 KREBS & JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2011/08/11	Start Test Time	09:05:00
Final Test Date	2011/08/11	Final Test Time	18:40:00
		Well Fluid Type	01 Oil
Gauge Name	30044		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
440' GIP  
180' GHOCM 12% GAS, 42% OIL, 46% MUD  
180' TOTAL FLUID

TOOL SAMPLE: 4% GAS, 71% OIL, 25% MUD



**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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**JOB LOG**

**SWIFT Services, Inc.**

DATE 8-13-11 PAGE NO. 7

CUSTOMER *Grand Mesa* WELL NO. *1-34* LEASE *E+E* JOB TYPE *Cement 2 stage L.S.* TICKET NO. *20301*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		TD 4650	DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING		
	0340								On location w/ Float Equip - RLD - RH
	0440								Start 5 1/2" 15.5 #/ft. casing set @ 4645'
									Insert Pool Slide w/ float - RLD
									L.D. Pottle - 55 21' @ 4645'
									Cont. 1-3-6-8-11-14 & 51
									Cont Bstaf #2 pin & 52 Pin
									D.U. Top of #52 @ 2463'
	0630								Drop ball center out
	0700								Fin run casing - 1st 2 ft
	0700								Start circ / Rotate
									back to Swift - 1st stage
		4 1/2	12				200		Pump 500 gal normal flush
		4 1/2	20				200		Pump 20 BBI HCL flush
		4 3/4					200		Start 175 SKS EH-2-ent
	0745		45						Fin cont - wash out Pump string
	0747	6 1/4					200		Drop D.U. L.D. Plug - Start Displ (110)
		6 1/4	55				400		Fin wtr - start mud - B1 @ 90
	0800		110				1050		Plug Down - Hold - Release & Hold
							1050		Drop D.U. opening tool
	0815	6					1000		Open D.U. - with tool
									Rig start circ casing
			7						Plug RH - 30 SKS - No lift.
	10:00								Start 2nd Stage
									Pump 20 BBI HCL flush
									Start 270 SKS SWS @ 11.2 #/gal
			149						Fin cont - Drop D.U. closing Plug
			30				100		Start Displ - 59 1/2
			40				200		
			50				400		
			58 1/2				1500		Plug Down - Hold - Release - D.U. closed &
	11:00								2nd Stage complete
									Wash up & check up TRK
									THANKS Tom, Blaine, Joe, David
									Anthony [Signature]
									30 SKS SWS - CIR to Surface - Don [Signature]
									John [Signature]

Acidizing Report

**PRO-STIM CHEMICALS**

Date 9-16-11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>146 56924</u>
Well Name & Number <u>E+E 1-34</u>	Field	Formation Spot <u>no</u>
County <u>Lyon</u> State <u>KS</u>	BHT	YD
Interval		

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

Job Pumped Via: Tubing <input type="checkbox"/> Casing <input type="checkbox"/> Annulus <input type="checkbox"/> CTU <input type="checkbox"/> Combination <input type="checkbox"/>	Plug Depth	Packer Depth
Casing Size: GRD WT Depth	Tubing Size: <u>2 7/8</u>	GRD WT Spot
Casing Vol. Tbg Vol Ann Vol OH Vol	Total Displacement	
Maximum Pressure Tubing Casing	Proposed Pump Time	AOL Leave Loc

Special Instructions: 250 gal RWR-1 1570

**Treatment Record**

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psi
<u>1</u>	<u>Acid</u>	<u>2.8</u>		<u>2.0</u>	<u>30</u>		
<u>3</u>	<u>Acid</u>	<u>2.7</u>		<u>6.0</u>	<u>30</u>		<u>Acid gone</u>
<u>4</u>	<u>Flush</u>	<u>2.7</u>		<u>9</u>	<u>30</u>		<u>Flush</u>
<u>11</u>	<u>Flush</u>	<u>0</u>		<u>25.9</u>	<u>50</u>		<u>Loaded</u>
<u>13</u>	<u>Flush</u>	<u>0</u>		<u>25.9</u>	<u>350</u>		
<u>22</u>	<u>Flush</u>	<u>0</u>		<u>26.2</u>	<u>600</u>		
<u>49</u>	<u>Flush</u>	<u>0</u>		<u>27</u>	<u>800</u>		
<u>1:22</u>	<u>Flush</u>	<u>0</u>		<u>27.8</u>	<u>1000</u>		
<u>1:58</u>	<u>Flush</u>	<u>0</u>		<u>28.8</u>	<u>1250</u>		
<u>1:59</u>	<u>Flush</u>	<u>0.2</u>		<u>29</u>	<u>1200</u>		<u>Break</u>
<u>2:00</u>	<u>Flush</u>	<u>.2</u>		<u>29.2</u>	<u>800</u>		
<u>2:01</u>	<u>Flush</u>	<u>.2</u>		<u>29.3</u>	<u>750</u>		
<u>2:03</u>	<u>Flush</u>	<u>.2</u>		<u>29.6</u>	<u>700</u>		
<u>2:05</u>	<u>Flush</u>	<u>.3</u>		<u>30.2</u>	<u>600</u>		
<u>2:02</u>	<u>Flush</u>	<u>.3</u>		<u>32</u>	<u>450</u>		

**Treatment Synopsis**

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>26 bbl.</u>	Acid <u>6 bbl.</u>	Oil
Treating Prs.	Max <u>1200</u>	Final <u>450</u>	Avg. <u>700</u>	ISIP <u>320</u>	30' IAC
Customer Representative				Pro-Stim Supervisor	<u>Shannon M.</u>

# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

SEP 26 2011

# Invoice

Date	Invoice #
9/21/2011	56926

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	S M	9/16/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	2.26	565.00
1	AR-630	GALLONS	24.10	24.10
5	RENAB	GALLONS	16.72	83.60
26	KCL BIOCIDE - 2%	BRLS	3.16	82.16
1	DUMP JOB		158.00	158.00T
5	TRUCK TIME	HOURS	95.00	475.00T
		Sales Tax - LOGAN CO.	7.80%	49.37

			<b>Total</b>	\$1,437.23
--	--	--	--------------	------------

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

Acidizing Report

**PRO-STIM CHEMICALS**

Date 7-19-11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>AL 57097</u>
Well Name & Number <u>EFE 1-34</u>	Field	Formation Spot <u>26brl</u>
County <u>Logan</u> State <u>KS</u>	BHT	YD
Interval		

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

Job Pumped Via:  Tubing  Casing  Annulus  CTU  Combination  Plug Depth

Packer Depth Test 4432

Casing Size:	GRD	WT	Depth	Tubing Size: <u>2 7/8</u>	GRD	WT	Spot <u>4497</u>
Casing Vol.	Tbg Vol <u>26</u>		Ann Vol	OH Vol	Total Displacement		
Maximum Pressure	Tubing	Casing	Proposed Pump Time	AOL	Leave Loc		

Special Instructions:

1,000 gals 15% HCl  
18 gals S-3000; 18 gals AD-795;  
4 gals S-262; 4 gals AC-307; 3 gals AR-630;  
3 gals AI-150; 26 bbls KCL

**Treatment Record**

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psl
<u>1</u>	<u>Acid</u>	<u>Spt</u>		<u>2</u>			
<u>13</u>	<u>Acid</u>	<u>3.0</u>		<u>4.0</u>	<u>20</u>		
<u>20</u>	<u>Acid</u>	<u>2.7</u>		<u>24</u>	<u>20</u>		<u>Acid Core</u>
<u>21</u>	<u>Flush</u>	<u>2.7</u>		<u>25.2</u>	<u>20</u>		<u>Flush</u>
<u>29</u>	<u>Flush</u>	<u>.8</u>		<u>46</u>	<u>40</u>		
<u>31</u>	<u>Flush</u>	<u>.7</u>		<u>48</u>	<u>40</u>		
<u>34</u>	<u>Flush</u>	<u>.7</u>		<u>50</u>	<u>40</u>		<u>Done</u>

**Treatment Synopsis**

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>26 brl</u>	Acid <u>24 brl</u>	Oil
Treating Prs.	Max <u>40</u>	Final <u>40</u>	Avg.	ISIP <u>VAC</u>	5' SI
Customer Representative				10' SI	15' SI
				Pro-Stim Supervisor <u>Shannon M.</u>	

OCT -- 5 2011

# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
9/29/2011	57097

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	S M	9/19/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
1,000	15% HCl ACID	GALLONS	1.28	1,280.00
18	S-3000	GALLONS	22.02	396.36
18	AD-795	GALLONS	35.05	630.90
4	S-262	GALLONS	13.42	53.68
4	AC-307	GALLONS	17.39	69.56
3	AR-630	GALLONS	24.10	72.30
3	AI-150	GALLONS	18.83	56.49
26	KCL BIOCID - 2%	BRLS	3.16	82.16
1	DUMP JOB		158.00	158.00T
3	TRUCK TIME	HOURS	95.00	285.00T
		Sales Tax - LOGAN CO.	7.80%	34.55

<b>Total</b>			<b>\$3,119.00</b>
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<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>
719-767-8071	719-767-5925	prostim@hotmail.com



# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
9/29/2011	57110

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	S M	9/21/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	2.26	565.00
1	AR-630	GALLONS	24.10	24.10
25	KCL BIOCIDES - 2%	BRLS	3.16	79.00
1	DUMP JOB		158.00	158.00T
3	TRUCK TIME	HOURS	95.00	285.00T
		Sales Tax - LOGAN CO.	7.80%	34.55

<b>Total</b>			\$1,145.65
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<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>
719-767-8071	719-767-5925	prostim@hotmail.com





# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
9/29/2011	57108

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	S M	9/21/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
750	RWR-1 15%	GALLONS	2.26	1,695.00
2	AR-630	GALLONS	24.10	48.20
26	KCL BIOCID - 2%	BRLS	3.16	82.16
1	DUMP JOB		158.00	158.00T
2.5	TRUCK TIME	HOURS	95.00	237.50T
		Sales Tax - LOGAN CO.	7.80%	30.85

			<b>Total</b>	\$2,251.71
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<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>
719-767-8071	719-767-5925	prostim@hotmail.com

Acidizing Report

**PRO-STIM CHEMICALS**

Date 7-23-11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>AL 57204</u>
Well Name & Number <u>EYE 1-34</u>	Field	Formation <u>Spot</u>
County <u>Logan</u> State <u>KS</u>	BHT	YD
Interval		

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

Job Pumped Via: <input type="checkbox"/> Tubing <input type="checkbox"/> Casing <input type="checkbox"/> Annulus <input type="checkbox"/> CTU <input type="checkbox"/> Combination <input type="checkbox"/>	Plug Depth	Packer Depth
Casing Size: GRD WT Depth	Tubing Size: GRD WT Spot	
Casing Vol. Tbg Vol	Ann Vol OH Vol	Total Displacement
Maximum Pressure Tubing	Casing Proposed Pump Time	AOL Leave Loc

Special Instructions: 250 gal BWR-1 15%

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psi
1	Acid	2.7		3.0	20		
2	Acid	2.7		6	20		Acid gone
10	Flush	0		25.5	70		Loaded
11	Flush	0		25.6	300		
41	Flush	0		25.7	700		
54	Flush	0		25.7	900		
1:18	Flush	0		25.8	1100		Probe
1:37	Flush	.2		26.2	600		
1:39	Flush	.7		27.4	500		
1:45	Flush	.7		32	450		Done

Treatment Synopsis

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>26 bbl</u>	Acid <u>6 bbl</u>	Oil	<u>14 min</u>
Treating Prs.	Max <u>1100</u>	Final <u>450</u>	Avg.	ISIP <u>380</u>	5'SI <u>130</u>	10'SI <u>40</u>
Customer Representative				Pro-Stim Supervisor	<u>Shannon M</u>	

# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
9/29/2011	57204

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	S M	9/23/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
250	RWR-1 15%	GALLONS	2.26	565.00
1	AR-630	GALLONS	24.10	24.10
26	KCL BIOCIDES - 2%	BRLS	3.16	82.16
1	DUMP JOB		158.00	158.00T
4.5	TRUCK TIME	HOURS	95.00	427.50T
		Sales Tax - LOGAN CO.	7.80%	45.67

			<b>Total</b>	\$1,302.43
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<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>
719-767-8071	719-767-5925	prostim@hotmail.com

Acidizing Report

**PRO-STIM CHEMICALS**

Date 9/23/11

Customer <u>Grand Mesa</u>	Pro-Stim Chemical Yard <u>Dighton</u>	Pro-Stim Number <u>A# 9 57205</u>
Well Name & Number <u>E+E #1-34</u>	Field	Formation Spot
County <u>Logan</u>	State <u>KS</u>	BHT
	YD	Interval

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

Job Pumped Via: Tubing  Casing  Annulus  CTU  Combination  Plug Depth \_\_\_\_\_ Packer Depth \_\_\_\_\_

Casing Size: <u>5 1/2</u>	GRD	WT <u>15.5</u>	Depth	Tubing Size: <u>2 7/8</u>	GRD	WT	Spot
Casing Vol.	Tbg Vol	Ann Vol	OH Vol	Total Displacement			
Maximum Pressure	Tubing	Casing	Proposed Pump Time	AOL	Leave Loc		

Special Instructions: 400 gal 15% RWR-1  
24.5 Flush 2% KCL

**Treatment Record**

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psi
<u>1</u>	<u>Acid</u>			<u>1</u>	<u>0</u>	<u>0</u>	<u>Spotted</u>
<u>10</u>	<u>Acid</u>	<u>3.25</u>		<u>7</u>	<u>0</u>	<u>0</u>	
<u>11</u>	<u>Acid</u>	<u>3.25</u>		<u>9.5</u>	<u>0</u>	<u>0</u>	<u>Acid Cons</u>
<u>14</u>	<u>Flush</u>	<u>3.25</u>		<u>17</u>	<u>0</u>	<u>0</u>	
<u>18</u>	<u>Flush</u>	<u>3.25</u>		<u>25.9</u>	<u>0</u>	<u>0</u>	<u>Well Loaded</u>
<u>19</u>	<u>Flush</u>	<u>.3</u>		<u>26.5</u>	<u>40</u>	<u>0</u>	
<u>20</u>	<u>Flush</u>	<u>1.35</u>		<u>28</u>	<u>350</u>	<u>0</u>	
<u>22</u>	<u>Flush</u>	<u>1.7</u>		<u>29</u>	<u>500</u>	<u>0</u>	
<u>23</u>	<u>Flush</u>	<u>2</u>		<u>30</u>	<u>550</u>	<u>0</u>	
<u>24</u>	<u>Flush</u>	<u>2</u>		<u>32</u>	<u>620</u>	<u>0</u>	
<u>26</u>	<u>Flush</u>	<u>2</u>		<u>34</u>	<u>650</u>	<u>0</u>	
<u>27</u>	<u>Flush</u>	<u>2</u>		<u>35</u>	<u>660</u>	<u>0</u>	

**Treatment Synopsis**

Avg Inj Rate	Fluid BPM	Total Injected	H2O <u>24.5</u>	Acid <u>9.5</u>	Oil
Treating Prs.	Max <u>660</u>	Final <u>660</u>	Avg. <u>580</u>	ISIP <u>520</u>	5'SI <u>190</u>
Customer Representative				Pro-Stim Supervisor	10'SI
					15'SI

# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
9/29/2011	57205

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

<b>Ship To</b>

<b>Requested By</b>	<b>Terms</b>	<b>Sales Rep.</b>	<b>Ship</b>	<b>Lease</b>
	Net 30	T P	9/23/2011	E & E 1-34

Quantity	Item Code	Description	Price Each	Amount
400	RWR-1 15%	GALLONS	2.26	904.00
1.5	AR-630	GALLONS	24.10	36.15
25	KCL BIOCIDE - 2%	BRLS	3.16	79.00
1	DUMP JOB		158.00	158.00T
2.5	TRUCK TIME	HOURS	95.00	237.50T
		Sales Tax - LOGAN CO.	7.80%	30.85

			<b>Total</b>	\$1,445.50
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<b>Phone #</b>	<b>Fax #</b>	<b>E-mail</b>
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 67208-5514

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

Well Name: E&E #1-34  
Location: 351' FSL, 739' FEL, 34-13s-32w, Logan County, Kansas  
License Number: API: 15-109-21027      Region: Logan County  
Spud Date: 08/02/2011      Drilling Completed: 08/12/2011  
Surface Coordinates: Lat: 38.874047  
Long: -100.855715  
Bottom Hole Vertical hole  
Coordinates:  
Ground Elevation (ft): 2874'      K.B. Elevation (ft): 2879'  
Logged Interval (ft): 3700' To: RTD      Total Depth (ft): 4650'  
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

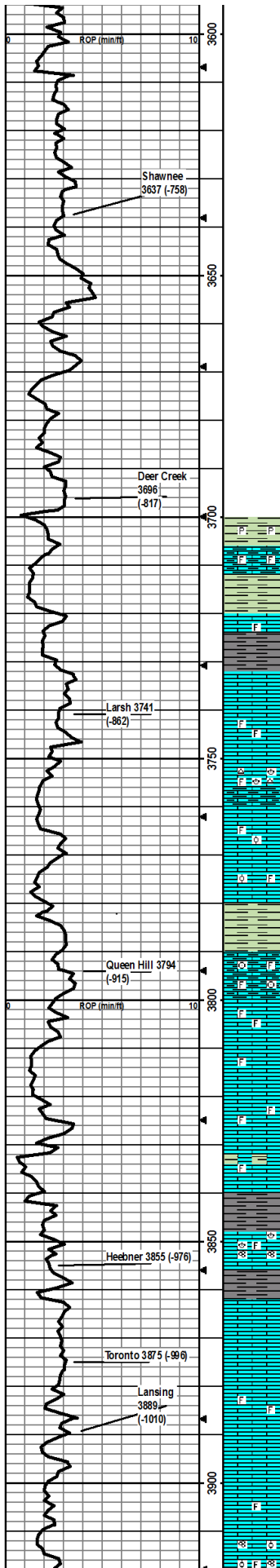
**COMMENTS**

Contractor: Murfin Drilling Company Rig #24  
Pusher: Tony Martin  
Surface Casing: 8 5/8" set at 222' w/165sx  
Production Casing: 5 1/2" set to TD  
Mud by: MudCo  
DST's by: Diamond Testing  
Logs by: Weatherford (DIL, CN-CD, ML)  
RTD=4650'  
LTD=4651'

**FORMATION TOPS**

Formation	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
B/Anh	2380'	-499	2380'	-499
Larsh	3741'	-862	3744'	-865
Queen Hill	3794'	-915	3799'	-920
Heebner Shale	3855'	-976	3858'	-979
Lansing	3899'	-1020	3904'	-1025
Muncie Creek Shale	4062'	-1183	4062'	-1183
Stark Shale	4148'	-1269	4148'	-1269
Hushpuckney Shale	4181'	-1302	4181'	-1302
Marmaton	4244'	-1365	4246'	-1367
Upper Fort Scott	4350'	-1471	4350'	-1471
Little Osage Shale	4374'	-1495	4376'	-1497
Excello Shale	4399'	-1520	4399'	-1520
Johnson Zone	4472'	-1593	4476'	-1597
Morrow	4505'	-1626	4504'	-1625
Mississippian	4534'	-1655	4534'	-1655
RTD	4650'	-1771		
LTD			4651'	-1772

rop ROP (min/ft)	Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks
	<p>3330</p> <p>3350</p> <p>3400</p> <p>3450</p> <p>3500</p> <p>3550</p>				<p><b>Morning Report Depth/Activity</b></p> <p>Spud on 08-01-2011</p> <p>08-02, drill @ 222'</p> <p>08-03, drill @ 2230'</p> <p>08-04, drill @ 3050'</p> <p>08-05, drill @ 3700'</p> <p>08-06, DS T#1 @ 3942'</p> <p>08-07, drill @ 4000'</p> <p>08-08, DS T#3 @ 4142'</p> <p>08-09, drill @ 4340'</p> <p>08-10, drill @ 4396'</p> <p>08-11, drill @ 4492'</p> <p>08-12, drill @ 4590'</p> <p><b>ROP Data begins @ 3339'</b></p>	<p>Mudco Check #1 @ 0' 08/01/11</p> <p>Mudco Check #2 @ 2101' 08/03/11 6:30am wt vis pH chl 9.2 28 7.0 24000 FIT LCM nic 0</p> <p>Anhydrite: 2359-2380'</p> <p>Mudco Check #3 @ 3020' 08/04/11 6:30am wt vis pH chl 9.2 29 7.0 27000 FIT LCM nic 1</p>



Started collecting cutting samples @ 3710'.

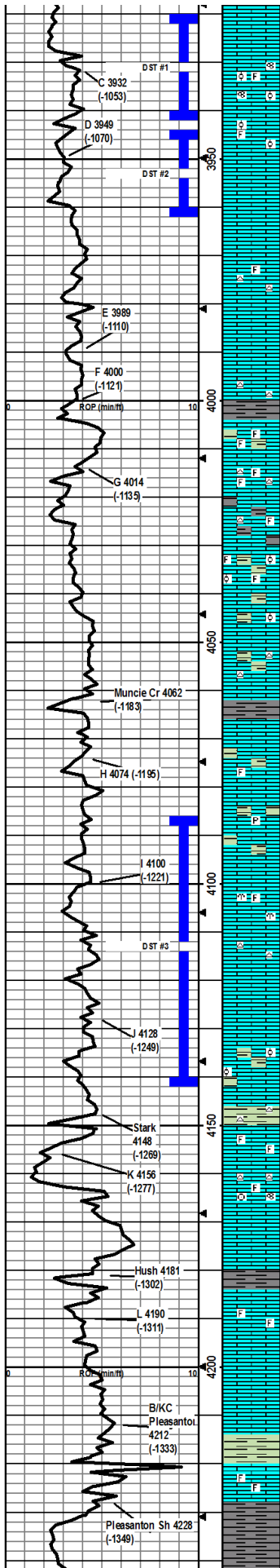
SH: med gry w/ min amt of lt green, fissile, some pyrite xtals.  
 LS: crm to buff-gry, hrd, some med gry SH, micro-xtal w/ foss frags, no vis por.  
 SH: med gry, silt glau, soft, fissile  
 LS: crm to lt gry, hard, micro-xtal, min amt of foss frags, no vis por.  
 SH: med-dk gry, soft, fissile  
 LS: crm and lt gry, micro-fn xtal, some xtal in por.  
 LS: crm-brn, fn xtal, some foss frags, no vis por.  
 LS: crm, micro xtal w/ fn frac filled xtals, foss brnc and frags, min white chrt, no vis por.  
 Same as above w/ med to dk gry SH.  
 LS: crm-lt brn w/ med gry, micro-fn xtal, some foss frags, one pcs ool w/ rug por.  
 LS: crm-lt brn, micro-fn xtal, foss frags and ool, no vis por.  
 SH: med-dk gry, soft, fissile  
 LS: crm-lt brn w/ some lt gry, micro-xtal, some foss, crin and frags, some med-dk gry SH, no vis por.  
 LS: lt brn to med gry, micro-xtal, some small foss frags, no vis por.  
 LS: white to lt brn, micro-fn xtal, min small foss frags, no vis por.  
 LS: white to lt gry, micro-xtal, min small foss frags, no vis por.  
 LS: lt brn and lt gry, micro-xtal, min small foss frags, med-dk gry fissile SH, no vis por.  
 SH: med-dk gry, soft, fissile  
 LS: crm to lt gry, micro-fn xtal, foss fusilnd brnc and frags, no vis por.  
 SH: dk gry-blk, soft.  
 LS: crm to lt brn w- some lt gry, micro-xtal w/ some fn xtals, no vis por.  
 LS: crm to lt brn, micro and fn xtal, no vis por.  
 LS: white to crm w/ some lt brn, fn xtal, some foss frags, no vis por.  
 Same as above.  
 LS: white to crm, micro-fn xtal, min amt of foss frags, no vis por.  
 LS: white to crm, micro-fn xtal, min amt of foss ool fusilnd and frags, min amt in-xtal por, no odor, no flr, ns.

Mudco Check #4 @ 3656'  
 08/05/11 5:00am  
 wt vis pH chl  
 8.8 54 11.0 2200  
 Filt LCM  
 6.4 1

Mudco Check #5 @ 3942'  
 08/06/11 5:30am  
 wt vis pH chl  
 9.3 53 10.5 1800  
 Filt LCM  
 7.2 2

DST 1)3920-3942  
 3045/6060.





LS: crm to lt brn, micro-fn xtal, some sily chalky pcs, foss ool fusilnd, some in-xtal and frac por, no cup odor but slt odor when crushed, flor, sh brn fo in-xtal por. Few pcs in 30" smp, more pcs in 60" smp.

LS: crm, micro-fn xtal, ool and frag foss, in-xtal vug por, cup and hand crushed odor, flor, sh dk-brn fo in-xtal por.

LS: crm, micro-xtal w/fn-xtals in vug por, no cup odor but slt odor when crushed, flor, sh dk-brn fo in-xtal por. Similar shows in 30" and 60" smpls.

LS: crm, micro to fn-xtal, some white chalky pcs, sm all ool and min foss frags, some white chrt, some green and gry SH, sm in-xtal and pinpt por, no cup or crushed odor, ns.

LS: crm, micro to fn-xtal, mn amt white chalky pcs, min in-xtal and pinpt por, one pcs w/vug por and fo in the 60" smp poss re-clr smp pl from above.

LS: crm to lt brn, micro to fn-xtal, chert, min amt of pinpt por, no odor, ns.  
SH: med green to dk gry, soft fissile.

LS: crm-lt brn, micro to fn-xtal, foss frags, some green-gray and gray SH, no vis por, no odor, ns.

LS: crm, micro to fn-xtal, foss frags, min chert, m in chalky pcs, pinpt por, no odor, ns.  
Same as above w/lt to dk gry SH.

LS: crm-lt brn, micro to fn-xtal, ool and foss frags, min chalky, ool vug por, some brn SH, no odor, ns.

LS: crm-lt brn, micro to fn-xtal, slt less ool, some lt-dk gry SH, one pcs of greenish gry SS, m in ool por, ns.

LS: crm, fn-xtal, slt amt chert, some green and gry SH, no vis por, ns.  
SH: dk gry to bk, soft, fissile.

LS: crm-lt brn w/min white and lt gry, micro-fn xtal, some brn and gry SH, min foss frags, no vis por, ns.

LS: crm-lt brn, fn xtal, lt-med gry and green SH w/m in pyrite, no vis por, ns.

LS: white-crm w/some lt brn, micro-fn xtal, med gry and brn SH, most smp w/no vis por, one pcs w/vug in-xtal por w/brn oil staining, flor and oil cut w/solvent.

LS: crm-lt brn, micro-fn xtal, min foss w/bryozon, most smp w/no vis por, one pcs w/vug in-xtal por w/fo, slt odor when crushed, slt sfo.

LS: white-crm, micro-fn xtal, min foss, chrt, most smp w/no vis por, few pcs w/in-xtal por and slt fo, slt odor when crushed, slt sfo.

LS: crm, micro-fn xtal, some pcs w/in-xtal por and brn staining and slt fo, slt odor when crushed, flor, slt sfo.

LS: crm to lt gry, micro-fn xtal, lt green-gry and dk gry SH, ool foss w/ vug and in-xtal por, slt odor when crushed, flor, slt sfo.

SH: med green-gry to gry w/min amt red-brn and dk gry - blk, soft-firm, min amt pyrite.

LS: white crm and gry-crm, micro-fn xtal, m in chalky pcs, some min foss frags, no vis por, no odor, ns.

LS: crm-med gry brn, micro-fn xtal, min chert, min amt of foss frags w/crin and fusiln, one pcs w/in-xtal fn por w/brn oil staining, no cup or crush odor, slt s of staining.

LS: white, lt gry and dk brn, fn xtal, foss frags, no vis por, no odor, ns.  
SH: med-dk gry w/lt-med green-gry, soft to brittle.

LS: white to lt-brn and lt-gry, fn xtal, foss frags, one pcs w/vug in-xtal por and brn fo, flor, slt sfo.

LS: white-crm, fn xtal, min foss frags, most pcs w/no por, one pcs in 30" and one in 60" smp w/show in in-xtal por, flor, slt sfo.

SH: dk green and med-dk gry, fissile some glauconitic.

LS: white and crm w/lt gry, micro-fn xtal, some foss frags, some white chalky pcs, no vis por, ns.  
SH: dk gry-blk, red br and greenish gry, soft to firm, fissile, some siltstn pcs.

1st: initial week blow built to 4.5".  
2nd: initial week blow built to 4".  
Rec 1" CO, 177' SOCMW  
IFP: 6-52#,  
ISIP: 11.71#,  
FFP: 56-34#,  
FSP: 14.7#.

CFS @ 3942' 30"60"

**DST 2)3944-3962**  
30454560,  
1st: initial wk suf blow BOB @ 16".  
2nd: initial wk suf blow BOB @ 19.5".  
Rec 565' 6MW,  
IFP: 9-134#,  
ISIP: 11.56#,  
FFP: 137-261#,  
FSP: 14.8#.

CFS @ 3962' 30"60"

Mudco Check #5 @ 3988'  
08/07/11 6:30am  
wt vis pH chl  
9.0 59 9.5 2500  
FIT LCM  
8.8 2

CFS @ 3988' 30"60"

CFS @ 4000' 30"60"

**DST 3)4068-4142**  
30303030,  
1st: initial wk suf blow increased to 1/2".  
2nd: initial few bubbles on tool open then no blow,  
Rec 5' DM,  
IFP: 6-12#,  
ISIP: 6.41#,  
FFP: 10-19#,  
FSP: 6.31#.

CFS @ 4096' 30"60"

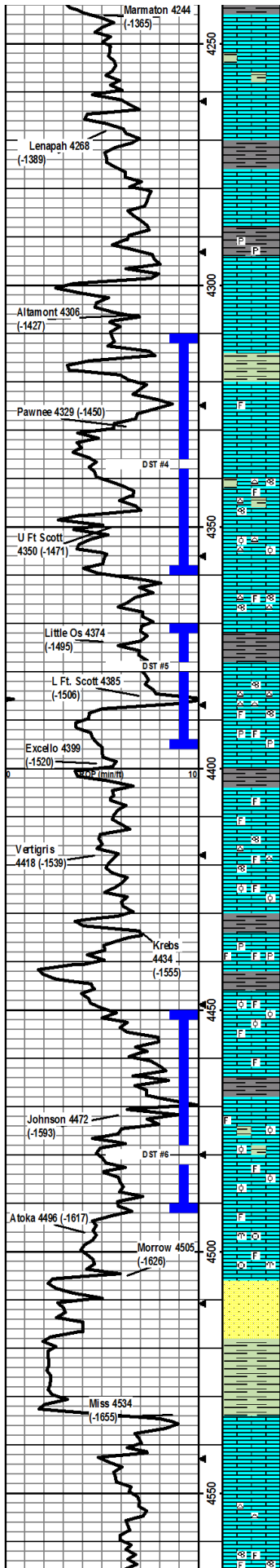
CFS @ 4123' 30"60"

CFS @ 4142' 30"60"

Mudco Check #7 @ 4142'  
08/08/11 5:00am  
wt vis pH chl  
9.3 54 10.5 2400  
FIT LCM  
8.0 2

CFS @ 4162' 30"60"

CFS @ 4212' 30"60"



LS: white-cream w/min amt of lt gry, fn-xtal, no vis por, ns

Same as above, w/greenish gry and gry SH, soft-firm, fissile.

LS: white-cream w/min amt of gry and red brn, fn-xtal, min amt white soft chalky pcs, no vis por, ns

SH: med-dk gry - greenish gry - red brn, firm, fissile.

LS: cream to red brn, micro-fn xtal, some silty pcs, min pinpt and frac por, ns.

SH: med-dk gry - greenish gry - red brn, min silty pcs, fissile, min amt pyrite

LS: cream-lt gry cream and lt brn, micro-fn xtal, no vis por, ns.

LS: cream-lt brn, fn xtal, min amt frac por, ns.

SH: green-gry lt-dk gry and red brn, some silty.

LS: cream-lt brn, micro-fn xtal, min foss frags, no vis por, ns.

LS: white-cream, fn xtal, some in-xtal por, odor when crushed in 30" smpl, cup odor in 60" smpl, floor, slt sfo.

LS: cream-lt brn w/min lt gry, micro-fn xtal, foss frags and fusilin, min chert, some med-dk gry SH, some frac por, no odor, ns.

LS: white-lt brn, micro-fn xtal, small ool, min chert, in-xtal por, strong odor when crushed, floor, cuts w/light fluid, gsb.

LS: cream-lt brn, micro-fn xtal, foss frags w/fusilin, chert, min pyrite, no vis por, ns.

SH: dk gry and blk w/some soft med gry and greenish gry, fissile

LS: cream-lt gryish brn, micro-fn xtal, min amt of foss frags w/fusilin, abund chert, no vis por, ns.

LS: cream-lt brn, micro-fn xtal, foss frags, min pyrite, gd vug por, gd cup odor, floor, gsf.

SH: med-dk gry and blk w/min med greenish gry, fissile, soft.

LS: cream and gryish cream, micro-xtal, some foss frags, no vis por, ns.

LS: cream-med brnsh gry, micro-fn xtal, some foss frags and fusilin, min chert, one pcs w/fo in-xtal por, floor, odor when crushed, slt sfo.

LS: cream-lt brn w/some med gry, micro-fn xtal, foss ool and frags, mostly dense w/no por, one pcs w/fo in ool por, no floor, odor when crushed, slt sfo.

SH: blk and dk-greenish gry, soft, fissile.

LS: cream-lt gryish brn, micro-fn xtal, some chalky, some chert, min pyrite, foss frags, no vis por, ns.

SH: blk, brittle, fissile.

LS: white-lt brn, micro-fn xtal, abund ool and foss frags, min chert, some frac and in-ool por, ns.

LS: cream-lt gryish brn, micro-fn frac xtal, some med-dk gry SH, min foss frags, pinpt-vug in-xtal por, slt cup and gd crushed odor, floor, gsf.

Same as above.

SH: med-dk gry and blk, soft to brittle, fissile.

LS: cream-med gryish brn, micro-fn w/frac xtal, min foss frags and ool, some dk-gry-blk SH, pinpt and frac w/min vug por, cup odor, floor, sfo.

LS: cream-lt br, micro-fn xtal, foss frags and ool, pinpt to wig ool por, strg cup odor, floor, vgsfo floating in tray.

LS: cream-lt brn, micro-fn xtal, min foss frags, min pinpt in-xtal por, ns.

LS: cream-lt gryish brn, micro-fn xtal, foss bryzn crin and frags, in-xtal por, slt odor when crushed, no floor, dk brn-blk staining, no drops when broken, no fo.

Silts: white-lt brn, fn grnd, some lt-gry glau pcs, subangl-well rnd, well sorted, friable, caco3 matrix, in-granular por, ns.

SH: med greenish-gry dk-gry red-brn, soft-brittle, fissile.

Same as above.

Silts: white-cream slightly glauconitic, subangl-well rnd, well sorted, friable, caco3 matix, in-granular por, ns.

Silts: white-cream, subangl-well rnd, well sorted, friable, caco3 matrix, in-granular por, ns.

LS: cream-lt brn, micro xtal, min chert, no vis por, ns.

LS: cream-lt gryish brn, micro-fn xtal, foss frags and fusilin, no vis por, ns.

**DST 4)4310-4360**

30456090,  
1st: Initial wk surf blow  
increased to 7".  
2nd: Initial wk surf blow  
increased to BOB in 39 min.  
Rec 250" GIP,  
Rec 150" TF: 12" CO, 108"  
GHOCVM, 30" GMV,  
IFP: 7-58#,  
ISIP: 1057#,  
FFP: 63-83#,  
FSP: 1074#.

Mudco Check #8 @ 4327'  
08/09/11 9:30am  
wt vis pH chl  
9.2 57 10.0 2800  
FIT LCM  
7.2 2

CFS @ 4340' 30" 60"

**DST 5)4370-4396**

30456090,  
1st: GSB, 1" immed and  
BOB in 6 min, 8.5" BlvBk thru  
22 min.  
2nd: GSB, 2" immed and BOB  
in 6.25 min, BOB BlvBk thru  
27 min.  
Rec 2587" GIP  
Rec 555" TF: 281" GO, 156"  
GMCO, 118" GMCO,  
IFP: 16-78#,  
ISIP: 1000#,  
FFP: 93-170#,  
FSP: 984#.

Mudco Check #9 @ 4396'  
08/10/11 7:30am  
wt vis pH chl  
9.3 59 10.0 3400  
FIT LCM  
8.8 2

CFS @ 4396' 30" 60"

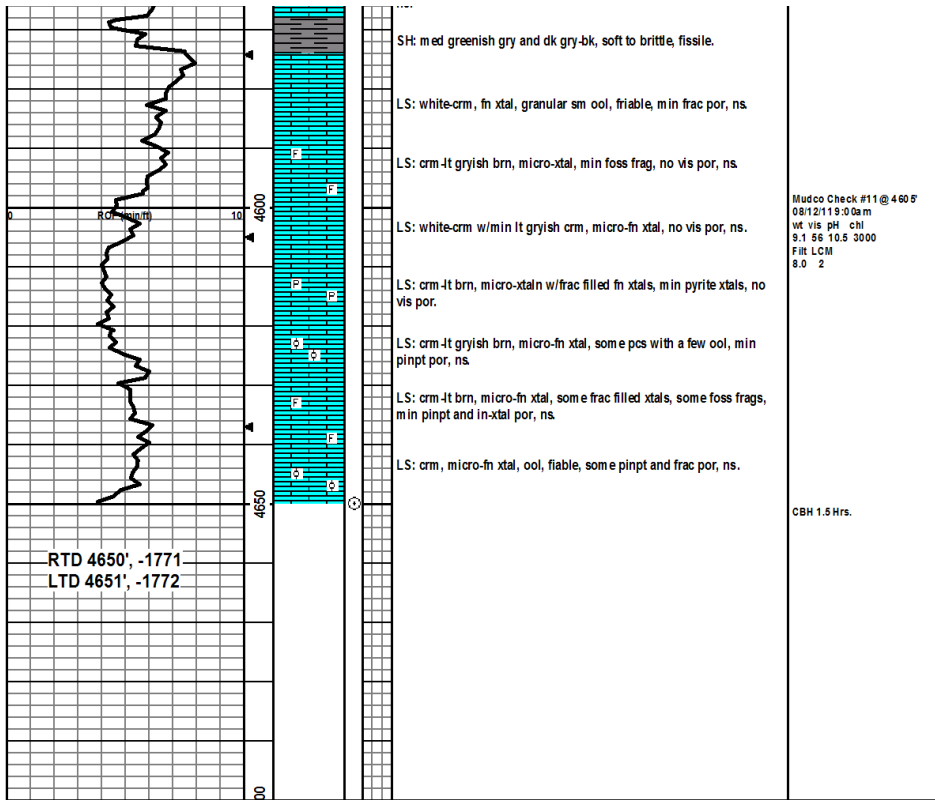
**DST 5)4450-4492**

30456090,  
1st: Initial VSB built to 10.5",  
wk 1" BlvBk.  
2nd: GSB, 1" immed and BOB  
in 19 min, wk 1" BlvBk.  
Rec 440" GIP,  
Rec 180" TF: GHOCM,  
IFP: 9-44#,  
ISIP: 946#,  
FFP: 44-74#,  
FSP: 933#.

Mudco Check #10 @ 4492'  
08/11/11 8:15am  
wt vis pH chl  
9.3 52 10.5 3200  
FIT LCM  
8.8 3

CFS @ 4492' 30" 60"

CFS @ 4533' 30"



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



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

Sam Brownback, Governor

November 08, 2011

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

Re: ACO1  
API 15-109-21027-00-00  
E & E 1-34  
SE/4 Sec.34-13S-32W  
Logan 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