

KANSAS CORPORATION COMMISSION 1046923  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

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

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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

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
<u>10/22/2010</u>	<u>10/29/2010</u>	<u>10/30/2010</u>

API No. 15 - 15-063-21874-00-00  
Spot Description: 1812' FSL & 461' FEL NWSENESE  
NW SE NE SE Sec. 31 Twp. 13 S. R. 31  East  West  
1812 Feet from  North /  South Line of Section  
461 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE     NW     SE     SW

County: Gove  
Lease Name: Phelps Well #: 8-31  
Field Name: Maurice Northeast  
Producing Formation: None

Elevation: Ground: 2917 Kelly Bushing: 2922  
Total Depth: 4720 Plug Back Total Depth: 0  
Amount of Surface Pipe Set and Cemented at: 220 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: 7600 ppm Fluid volume: 780 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: 11/11/2010  
 Confidential Release Date: 11/10/2012  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NAOMI JAMES Date: 11/12/2010



1046923

Operator Name: Grand Mesa Operating Company Lease Name: Phelps Well #: 8-31

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

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

<p>Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i></p> <p>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i></p> <p>List All E. Logs Run:</p> <p>Compact Photo Density Compensated Neutron Micro-Res. Log Array Induction Shallow Focussed Electric Log</p>	<p><input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample</p> <p>Name Top Datum Attached Attached Attached</p>
---	--

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	220	Common	165	3% CC; 2% Gel

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 checked="" type="checkbox"/> Plug Off Zone	0-4720	60/40 Pozmix	220	4% Gel; 1/4#sx Flocele

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)* \_\_\_\_\_

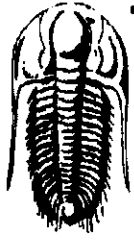
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

<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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
--	---	---

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Phelps 8-31
Doc ID	1046923

Tops

Stone Corral	2404	+518
Bs/Stone Corral	2427	+495
Heebner	3918	-996
Lansing	3960	-1038
Muncie Creek	4113	-1191
Hushpuckney	4244	-1322
Marmaton	4307	-1385
Little Osage	4440	-1518
Johnson	4545	-1623
Morrow	4567	-1645
Mississippian	4632	-1710
LTD	4717	



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Grand Mesa Operating Inc.  
 1700 N Waterfront Pkwy  
 Bldg 600  
 Wichita Ks 67206  
 ATTN: Bob Peterson

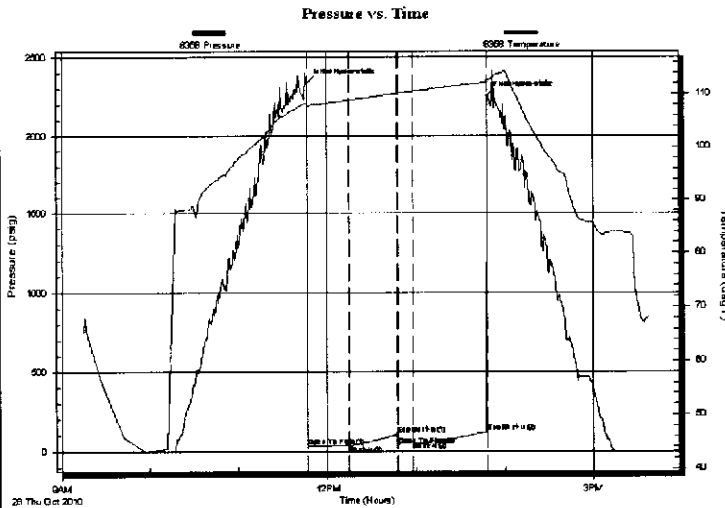
**Phelps 8-31**  
**31-13s-31w Gove KS**  
 Job Ticket: 040181 **DST#: 1**  
 Test Start: 2010.10.28 @ 09:15:15

## GENERAL INFORMATION:

Formation: **Marrow-Johnson-Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:46:45  
 Time Test Ended: 15:38:45  
 Test Type: Conventional Bottom Hole  
 Tester: Mike Roberts  
 Unit No: 48  
 Interval: **4560.00 ft (KB) To 4643.00 ft (KB) (TVD)**  
 Reference Elevations: 2922.00 ft (KB)  
 Total Depth: 4643.00 ft (KB) (TVD) 2917.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8358 Inside**  
 Press@RunDepth: 64.92 psig @ 4641.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.10.28 End Date: 2010.10.28 Last Calib.: 2010.10.28  
 Start Time: 09:15:15 End Time: 15:38:45 Time On Btm: 2010.10.28 @ 11:46:30  
 Time Off Btm: 2010.10.28 @ 13:48:00

TEST COMMENT: IF: Built to 1/2 blow  
 IS: No return blow  
 FF: No blow  
 FS: No return blow



## PRESSURE SUMMARY

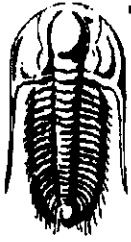
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2337.35	108.22	Initial Hydro-static
1	30.31	107.52	Open To Flow (1)
28	36.41	108.81	Shut-In (1)
61	106.92	110.09	End Shut-In (1)
61	40.69	110.09	Open To Flow (2)
72	64.92	110.51	Shut-In (2)
122	121.21	112.15	End Shut-In (2)
122	2253.16	112.84	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	m 100% m	0.02

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Inc.  
1700 N Waterfront Pkw y  
Bldg 600  
Wichita Ks 67206  
ATTN: Bob Peterson

**Phelps 8-31**  
**31-13s-31w Gove KS**  
Job Ticket: 040181      **DST#: 1**  
Test Start: 2010.10.28 @ 09:15:15

## Mud and Cushion Information

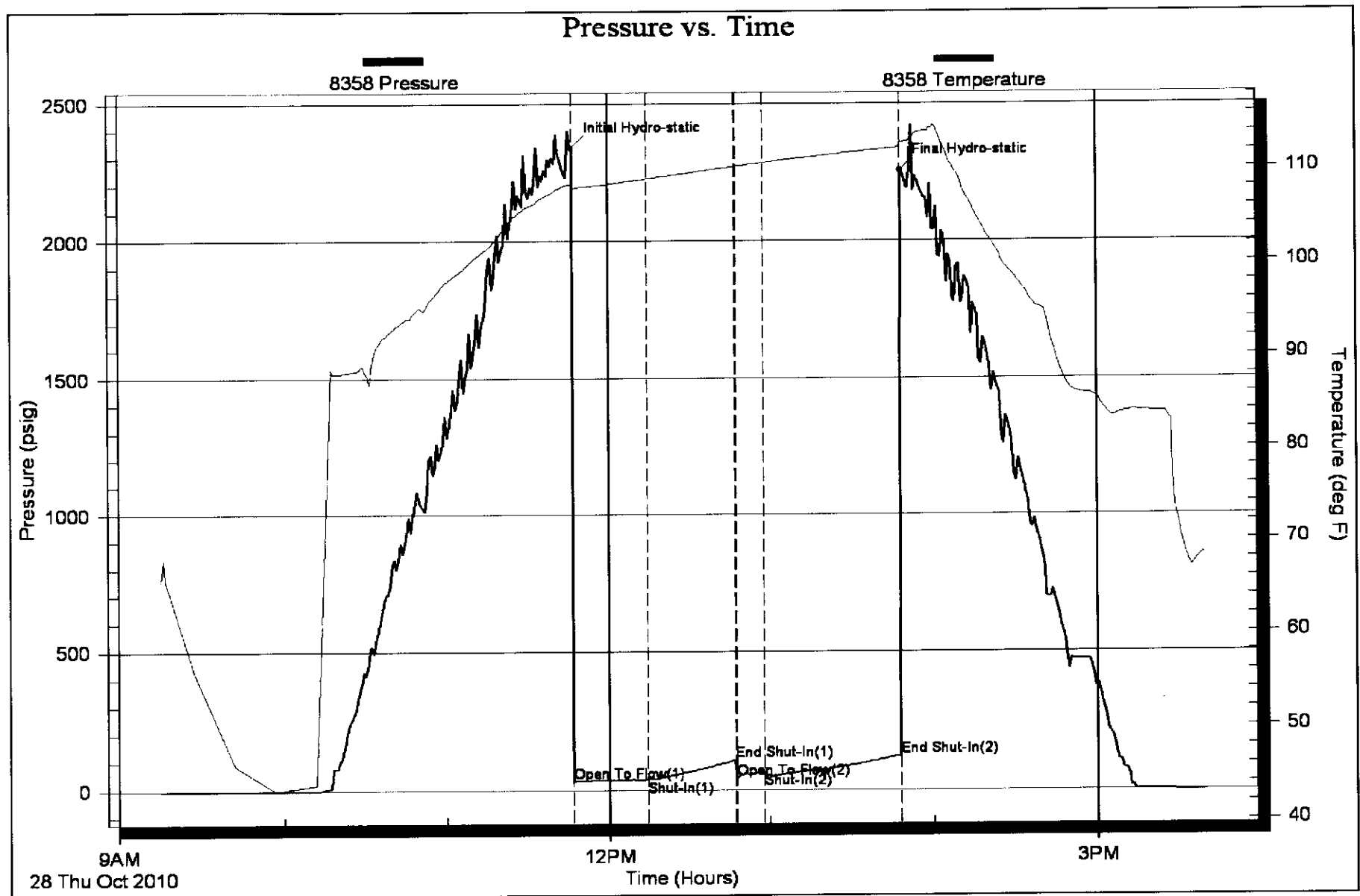
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	0 ppm
Viscosity: 54.00 sec/qt	Cushion Volume:		
Water Loss: 9.16 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure:		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

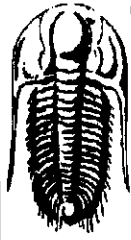
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	m 100% m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Grand Mesa Operating Inc.

**Phelps 8-31**

1700 N Waterfront Pkw y  
Bldg 600  
Wichita Ks 67206  
ATTN: Bob Peterson

**31-13s-31w Gove KS**

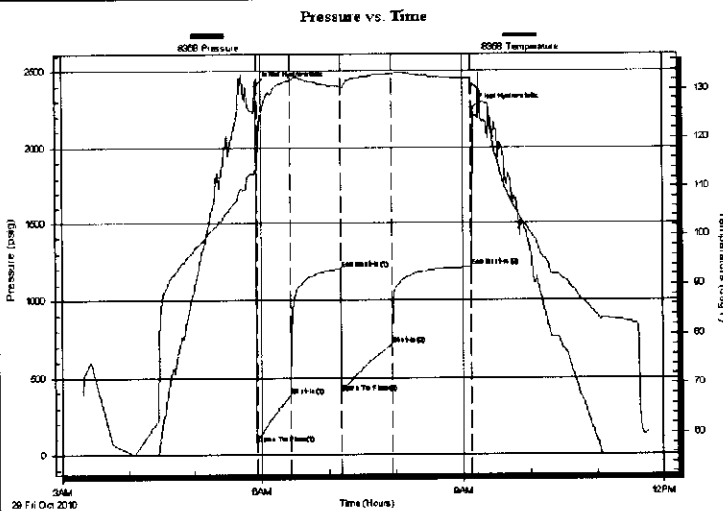
Job Ticket: 040182      **DST#: 2**  
Test Start: 2010.10.29 @ 03:19:15

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 05:55:45  
 Time Test Ended: 11:47:45  
 Test Type: Conventional Bottom Hole  
 Tester: Mike Roberts  
 Unit No: 48  
 Interval: **4685.00 ft (KB) To 4720.00 ft (KB) (TVD)**  
 Reference Elevations: 2922.00 ft (KB)  
 Total Depth: 4685.00 ft (KB) (TVD)      2917.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8358      Inside**  
 Press@RunDepth: 715.17 psig @ 4766.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2010.10.29      End Date: 2010.10.29      Last Calib.: 2010.10.29  
 Start Time: 03:19:15      End Time: 11:47:45      Time On Btm: 2010.10.29 @ 05:55:30  
 Time Off Btm: 2010.10.29 @ 09:09:15

**TEST COMMENT:** IF:BOB in 4 min.  
 IS:No return blow  
 FF:BOB in 4 min.  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2406.59	113.59	Initial Hydro-static
1	74.64	112.68	Open To Flow (1)
31	384.07	131.85	Shut-In(1)
75	1204.02	130.60	End Shut-In(1)
76	402.82	130.22	Open To Flow (2)
121	715.17	133.05	Shut-In(2)
192	1214.97	132.04	End Shut-In(2)
194	2254.87	131.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	mw with trace of oil	2.39
310.00	mw 10% m 90%w	4.35
930.00	sw 100% w	13.05

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Grand Mesa Operating Inc.  
1700 N Waterfront Pkw y  
Bldg 600  
Wichita Ks 67206  
ATTN: Bob Peterson

**Phelps 8-31**  
**31-13s-31w Gove KS**  
Job Ticket: 040182      **DST#: 2**  
Test Start: 2010.10.29 @ 03:19:15

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	20000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	mw with trace of oil	2.395
310.00	mw 10% m 90%w	4.348
930.00	sw 100% w	13.045

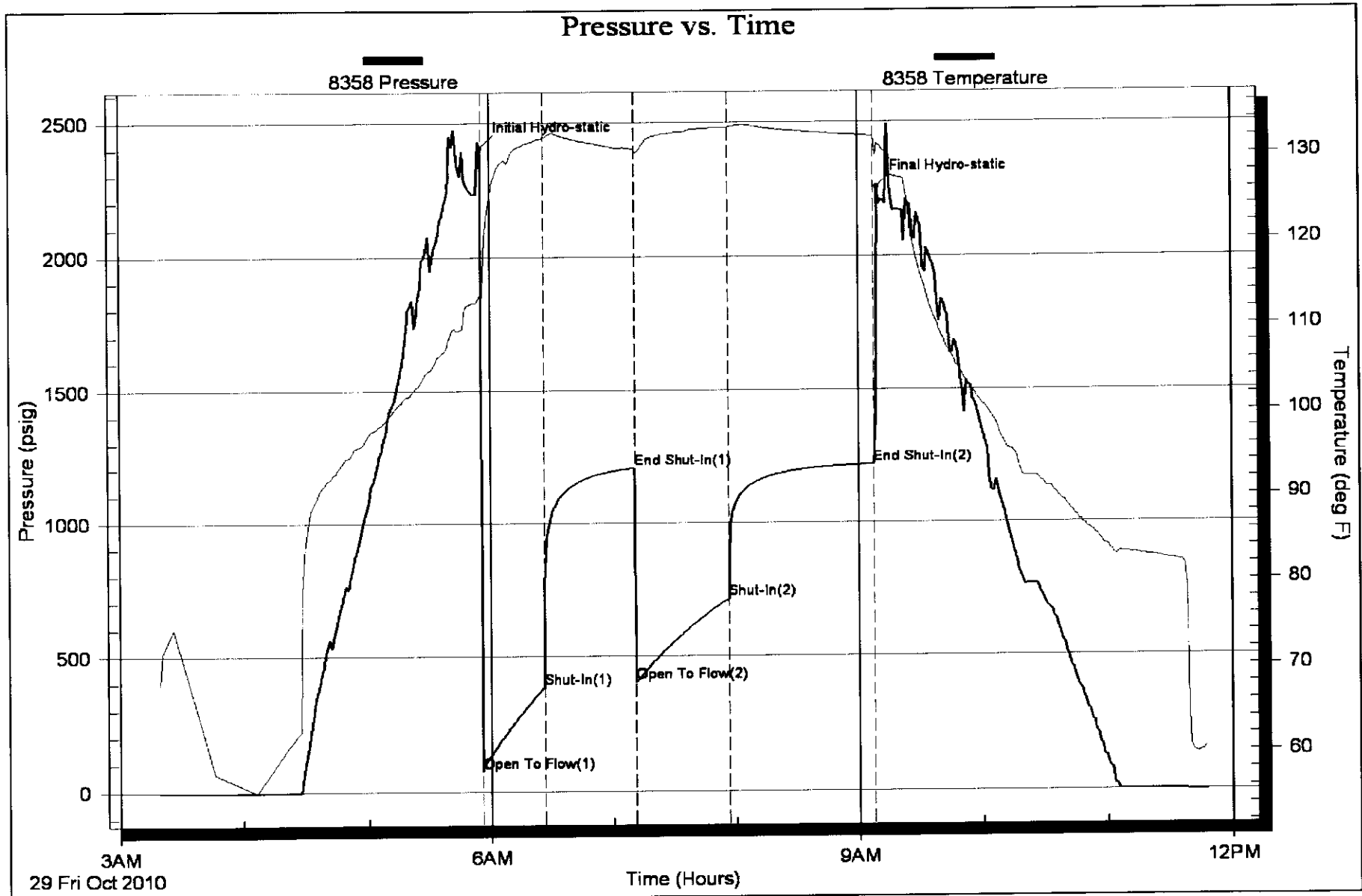
Total Length: 1488.00 ft      Total Volume: 19.788 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: RW=.496@44.9 degrees=20,000 ppm





# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

GRAND MESA OPERATING CO.

WELL: PHELPS #8-31  
 LOC.: 1812' FSL & 461' FEL  
 SEC. 31-13-31W  
 GOVE COUNTY, KANSAS  
 API: 15-063-21874-00-00

DRILLING CONTR.: MURFIN RIG #24  
 SPUD: 10-22-10 COMP: 10-29-10  
 MUD UP: 3500' TYPE MUD: CHEM.  
 DRILL TIME: 3600-RTD  
 RTD: 4720' LTD: 4717'  
 SAMPLES SAVED: 3800'-RTD  
 GEOLOGIST: ROBERT J. PETERSEN

### ELEVATION

KB: 2922'  
 GL: 2917'  
 LOG MEASURED  
 FROM: KB

### SURFACE CASING

23# 8 5/8" Set @ 220' KB.  
 Cem. w/165sx Comm.,  
 3% CC, 2% Gel.

### PRODUCTION CASING

N/A

### WELL LOG SURVEYS

DIL/CDL w/micro

### ELECTRIC LOG TOPS

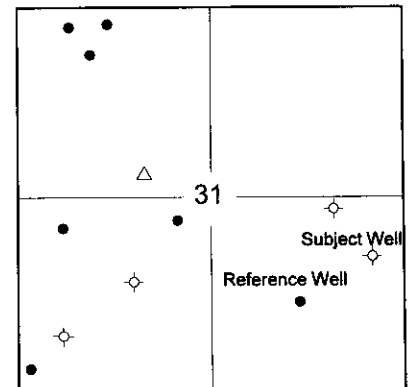
Stone Corral	2404	518	0
Bs/ Stone Corral	2427	495	-1
Heebner	3919	-997	-5
Lansing	3961	-1039	-3
Muncie Creek	4113	-1191	-2
Stark	4208	-1286	-7
Hushpuckney	4246	-1324	-9
Marmaton	4307	-1385	-7
Pawnee	4394	-1472	-15
Upper Ft Scott	4414	-1492	-9
Little Osage	4442	-1520	-9
Excello	4466	-1544	-8
Cherokee	4500	-1578	-9
Johnson	4544	-1622	-12
Morrow	4567	-1645	-9
Mississippian	4633	-1711	18

### REFERENCE WELL:

GRAND MESA  
 PHELPS #3-31 31-13-31W  
 1418' FSL & 1289' FELEL. 2932' KB

### REMARKS AND RECOMMENDATIONS

Due to the drill stem test results the operator  
 plugged and abandoned this well.  
 Respectfully submitted,



### DAILY REPORT

@7:00 A.M.

10/22/10 MIRU; Spud @ 3:30 p.m.  
 10/23/10 Drilled out @ 4:00 a.m.;  
 Current depth@ 7:00 a.m. 350', drilling ahead  
 10/24/10 2425', drilling ahead  
 10/25/10 3444' bit trip.



*Mark Parkinson, Governor  
Thomas E. Wright, Chairman  
Joseph F. Harkins, Commissioner  
Ward Loyd, Commissioner*

November 11, 2010

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

Re: ACO1  
API 15-063-21874-00-00  
Phelps 8-31  
SE/4 Sec.31-13S-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

# ALLIED CEMENTING CO., LLC. 035668

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

SERVICE POINT:  
Oakley

DATE <u>10-22-10</u>	SEC. <u>318</u>	TWP. <u>23</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>7:30am</u>	JOB FINISH <u>8:00pm</u>
LEASE <u>Phelpes</u>		WELL # <u>8-31</u>		LOCATION <u>Oakley 11s 3E</u>		COUNTY <u>Gore</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>565 Winto</u>			

CONTRACTOR Murfin Drilling Rig 24 OWNER same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 220'

CASING SIZE 8 5/8 DEPTH 220'

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PERFS. \_\_\_\_\_

DISPLACEMENT 13 BBL

CEMENT AMOUNT ORDERED 165 SKS COM

3% CC 2% GEL

COMMON	<u>165 SKS</u>	@	<u>15.45</u>	<u>2549.25</u>
POZMIX		@		
GEL	<u>3 SKS</u>	@	<u>20.80</u>	<u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		

**EQUIPMENT**

PUMP TRUCK CEMENTER Andrew

# 1296-81 HELPER Larue

BULK TRUCK DRIVER Jerry

# 394

BULK TRUCK DRIVER \_\_\_\_\_

# \_\_\_\_\_

HANDLING	<u>124 SKS</u>	@	<u>2.40</u>	<u>412.60</u>
MILEAGE	<u>109.4 miles</u>			<u>348.00</u>
			TOTAL	<u>3726.45</u>

**REMARKS:**

Cement did circulate

thank you

**SERVICE**

DEPTH OF JOB	<u>200'</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20 miles</u>	@	<u>2.00</u>
MANIFOLD		@	

TOTAL 1158.00

CHARGE TO: Grand mesa

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner on

