



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1077858  
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: \_\_\_\_\_

1077858

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. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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	G. ANDERSEN 5-26
Doc ID	1077858

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect. Log
Micro Log
Dual Rec. Cement Bnd Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	G. ANDERSEN 5-26
Doc ID	1077858

Tops

Name	Top	Datum
Stone Corral	2538	+478
Bs/Stone Corral	2560	+456
Heebner	4008	-992
Lansing	4054	-1038
Muncie Creek	4200	-1184
Stark	4280	-1264
Marmaton	4374	-1358
Excello	4529	-1513
Mississippian	4652	-1636
LTD	4746	

# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA	Job Number	M276
Well Name	G.ANDERSON #5-26	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3930-3940 QUEEN HILL	Well Operator	GRAND MESA
Surface Location	SEC.26-12S-32W LOGAN CO.KS.	Report Date	2012/02/21
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOHN GOLDSMITH
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3930-3940 QUEEN HILL		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/02/21	Start Test Time	03:25:00
Final Test Date	2012/02/21	Final Test Time	11:35:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

##### RECOVERED:

290' MW 96% WTR, 4% MUD  
290' TOTAL FLUID

CHLOR: 40,000 PPM

PH:8.0

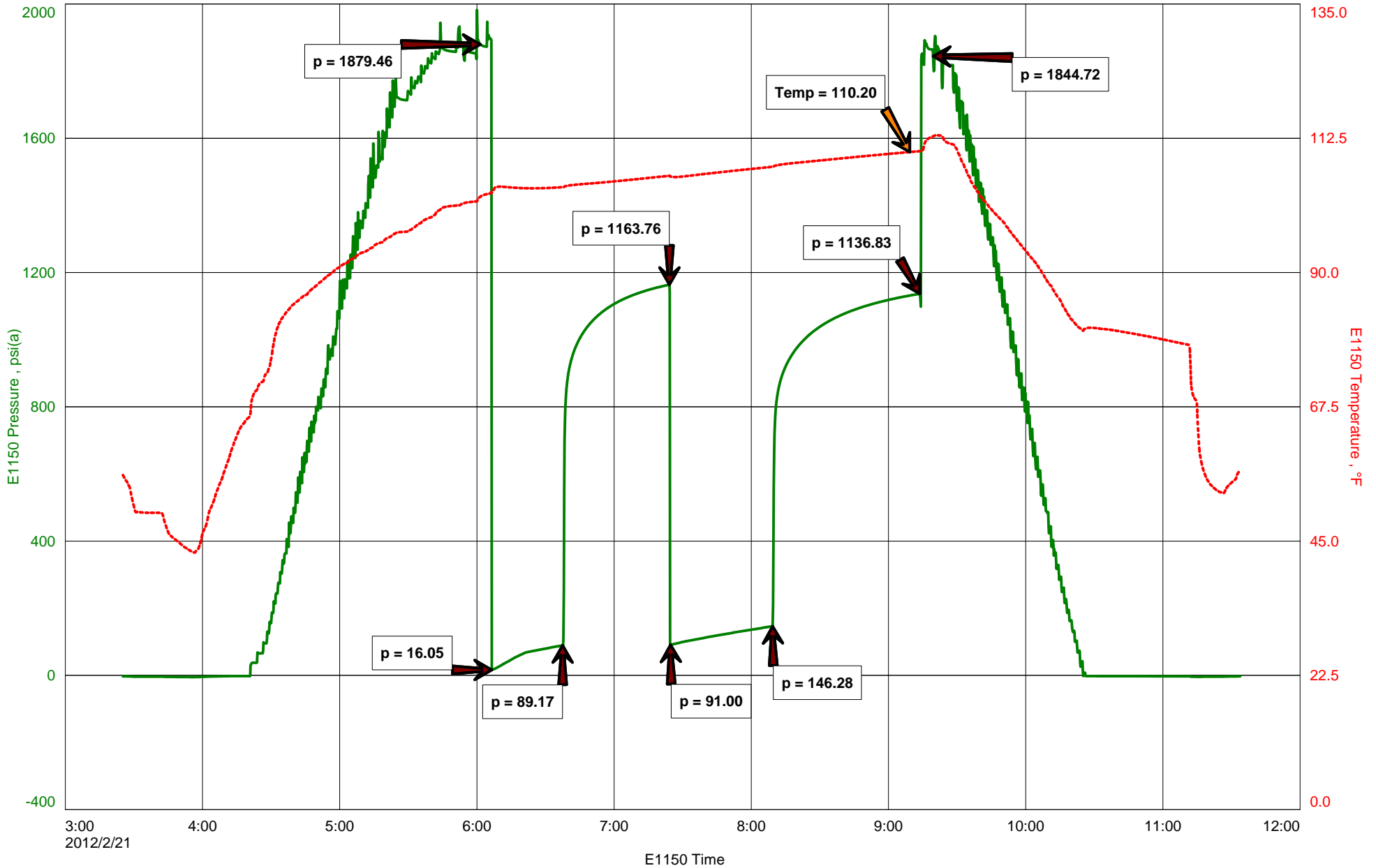
RW: .30 @ 67 DEG

TOOL SAMPLE: 73% WTR, 27% MUD, THICK SCUM OF OIL, AND A GASSY ODOR

GRAND MESA  
DST#1 3930-3940 QUEEN HILL  
Start Test Date: 2012/02/21  
Final Test Date: 2012/02/21

G.ANDERSON #5-26  
Formation: DST#1 3930-3940 QUEEN HILL  
Pool: WILDCAT  
Job Number: M276

# G.ANDERSON #5-26





**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

## Pressure Survey Report

### General Information

Company Name	GRAND MESA	Job Number	M277
Well Name	G.ANDERSON #5-26	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4196-4225 LANSING "H"	Well Operator	GRAND MESA
Surface Location	SEC.26-12S-32W LOGAN CO.KS.	Report Date	2012/02/22
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOHN GOLDSMITH
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4196-4225 LANSING "H"		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/02/22	Start Test Time	15:50:00
Final Test Date	2012/02/22	Final Test Time	21:50:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
1' DM 100% MUD W/ SOME SPOTS OF OIL  
1' TOTAL FLUID

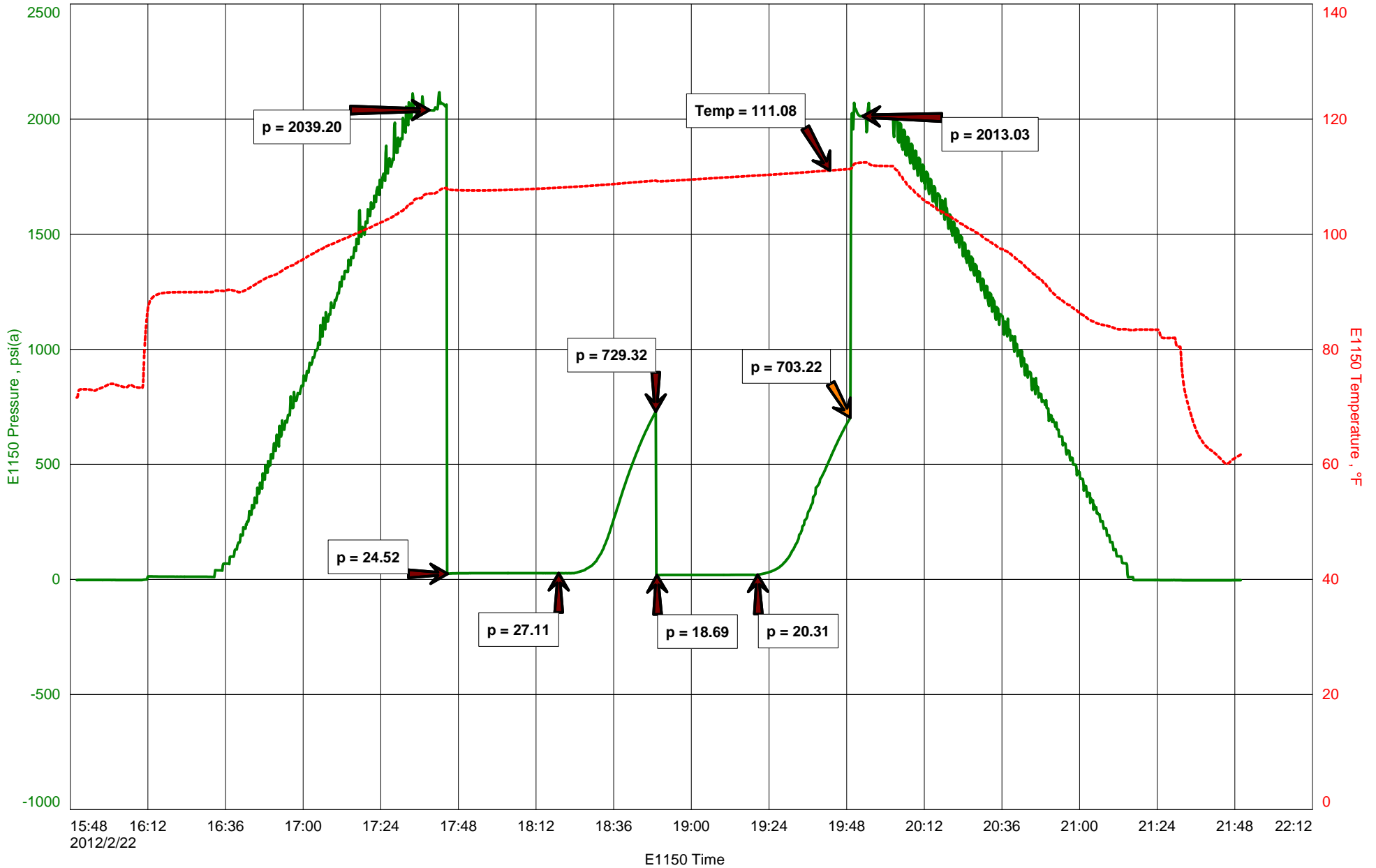
TOOL SAMPLE: DM 100% MUD W/ SOME SPECKS OF OIL



GRAND MESA  
DST#2 4196-4225 LANSING "H"  
Start Test Date: 2012/02/22  
Final Test Date: 2012/02/22

G.ANDERSON #5-26  
Formation: DST#2 4196-4225 LANSING "H"  
Pool: WILDCAT  
Job Number: M277

# G.ANDERSON #5-26





**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

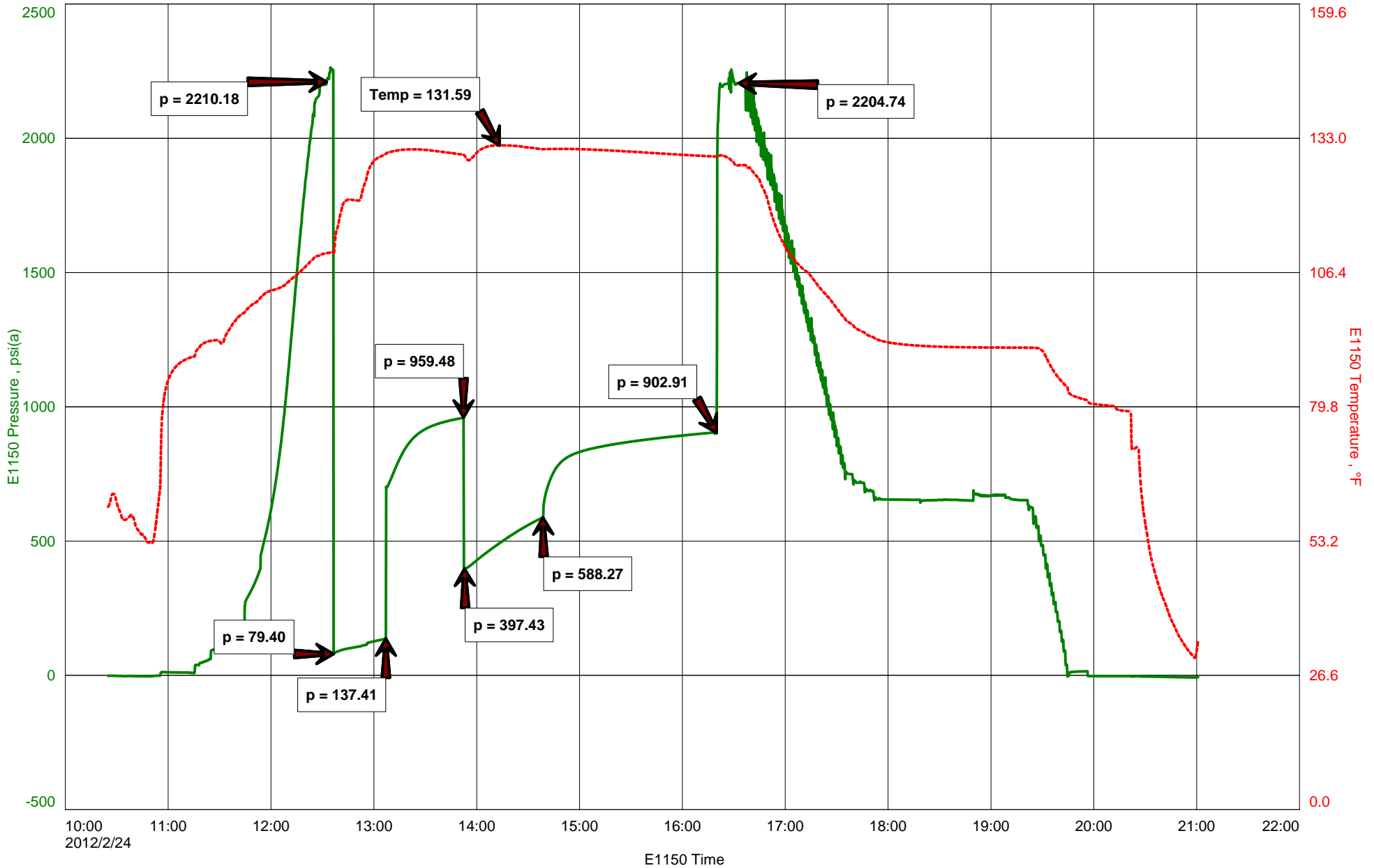
Time Set Packer(s) \_\_\_\_\_ A.M. P.M. Time Started Off Bottom \_\_\_\_\_ A.M. P.M. Maximum Temperature \_\_\_\_\_  
Initial Hydrostatic Pressure..... (A) \_\_\_\_\_ P.S.I.  
Initial Flow Period..... Minutes \_\_\_\_\_ (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes \_\_\_\_\_ (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  
DST#3 4556-4617 JOHNSON  
Start Test Date: 2012/02/24  
Final Test Date: 2012/02/24

G.ANDERSON #5-26  
Formation: DST#3 4556-4617 JOHNSON  
Pool: WILDCAT  
Job Number: M278

# G.ANDERSON #5-26



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	GRAND MESA	Job Number	M278
Well Name	G.ANDERSON #5-26	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4556-4617 JOHNSON	Well Operator	GRAND MESA
Surface Location	SEC.26-12S-32W LOGAN CO.KS.	Report Date	2012/02/24
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	JOHN GOLDSMITH
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4556-4617 JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/02/24	Start Test Time	10:25:00
Final Test Date	2012/02/24	Final Test Time	21:01:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
380' GIP  
170' CO 100% OIL  
1587' GMCO 10% GAS, 70% OIL, 20% MUD  
1757' TOTAL FLUID

GRAVITY: 24.0 @ 60

TOOL SAMPLE: 10% GAS, 80% OIL, 10% 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 _____	
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.

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.

# GRAND MESA OPERATING COMPANY

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

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

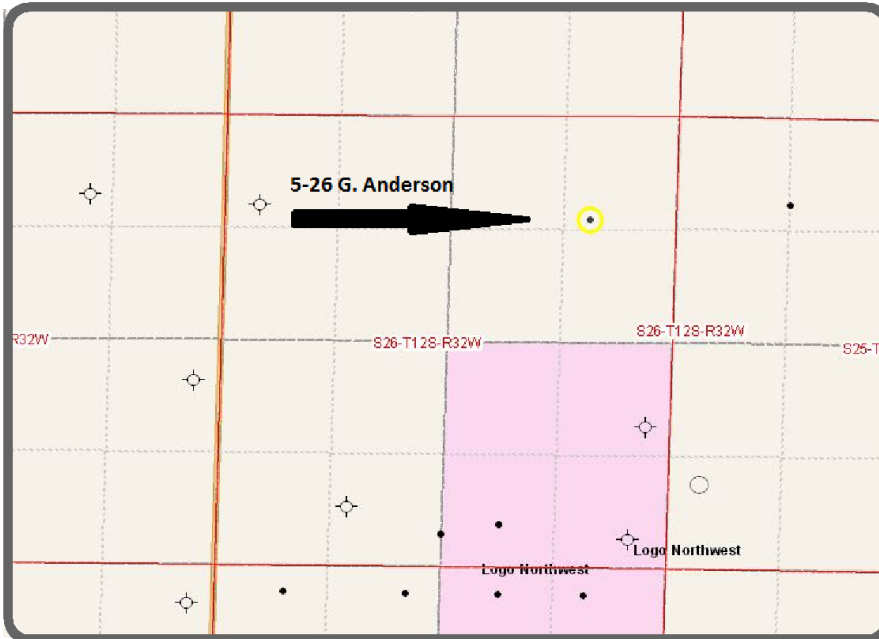
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: #5-26 G. Anderson  
 Location: 1235' FNL, 1050' FEL, SECTION 26-12S-32W  
 License Number: API: 15-109-21075  
 Spud Date: 02/17/2012  
 Surface Coordinates: LAT 38.9859789  
 LONG -100.8356570  
 Bottom Hole Coordinates: Vertical hole  
 Ground Elevation (ft): 3011' K.B. Elevation (ft): 3016'  
 Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4750'  
 Formation: Mississippi at RTD  
 Type of Drilling Fluid: Chemical  
 Region: Logan County  
 Drilling Completed: 02/25/2012

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## GEOLOGIST

Name: John Goldsmith  
 Company: John Goldsmith Wellsite Service  
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 Cheney, KS 67025  
 316-640-0236



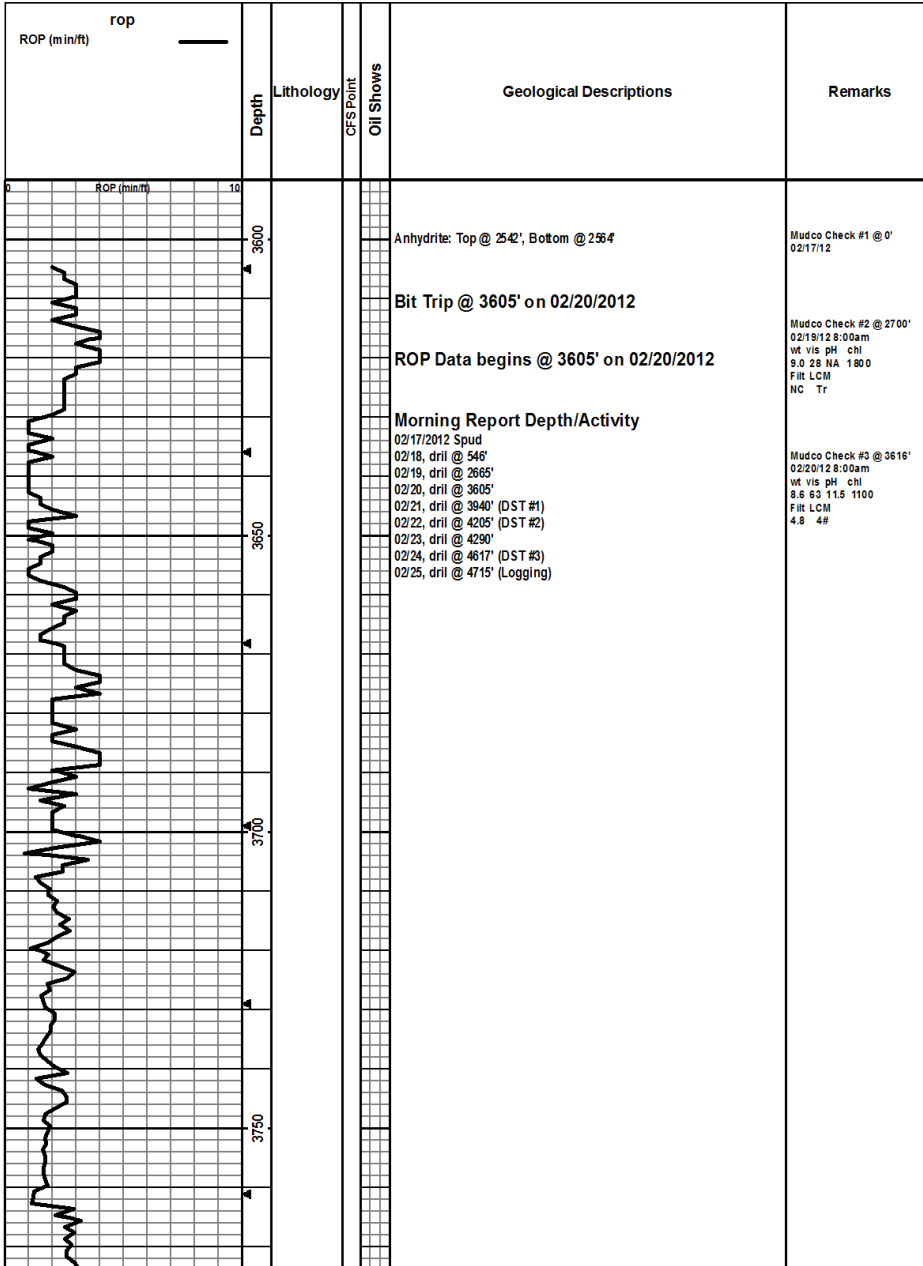
## COMMENTS

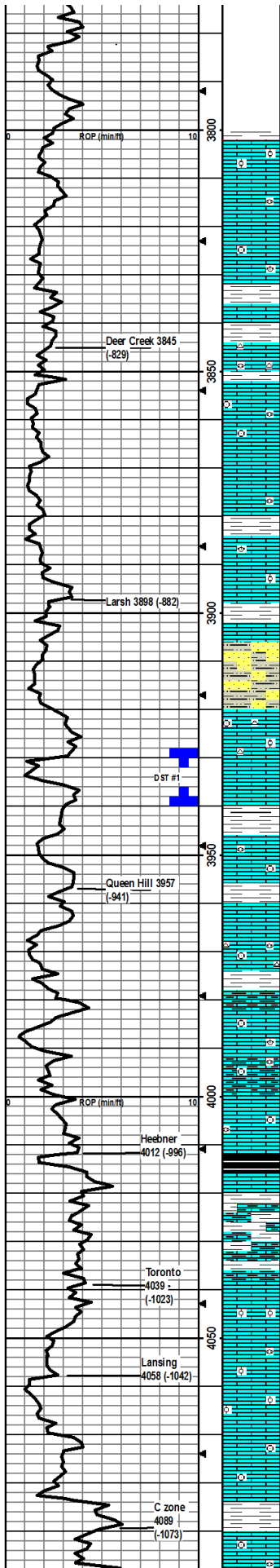
Contractor: Murfin Drilling Company Rig #24  
 Pusher: Tony Martin  
 Surface Casing: 6 joints of 8 5/8" set at 214'  
 Production Casing: 5.25" production casing was installed.  
 Mud by: MudCo  
 DST's by: Tribolite Testing  
 Logs by: Weatherford (DIL, CN-CD, ML, CS)  
 RTD=4800'  
 LTD=4802'

## FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Queen Hill	3957'	-941	3954'	-938
Heebner Shale	4012'	-996	4008'	-992

Toronto	4039'	-1023	4035'	-1019
Lansing	4058'	-1042	4054'	-1038
Muncie Creek Shale	4204'	-1188	4200'	-1184
Stark Shale	4286'	-1270	4280'	-1264
Hushpuckney Shale	4320'	-1304	4314'	-1298
Marmaton	4380'	-1364	4374'	-1358
Upper Fort Scott	4487'	-1471	4483'	-1467
Little Osage Shale	4506'	-1490	4502'	-1486
Excello Shale	4531'	-1515	4528'	-1512
Johnson Zone	4606'	-1590	4603'	-1587
Morrow	4628'	-1612	4622'	-1606
Mississippian	4656'	-1640	4651'	-1635
RTD	4750'	-1734		
LTD			4746'	-1730





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

LS: tan, fn xln, vry foss, mostly ool, brittle, sm dense, tr-nvp, fw SH: gry/grn/brn, silty, easy-med crush, no cup odr, ns.

LS: tan/lt grn, fn xln, fw foss frags, mostly dense, sm hard, tr-nvp, fw pcs pure chl, fw SH: brn, silty, med crush, no cup odr, ns.

LS: gry/lt tan, fw mott, fn xln, sm foss var, sm dense/hard, tr-nvp, fw pcs chiky, fw SH: gry/brn, silty, soft, no cup odr, ns.

LS: gry/lt tan, fn xln, foss crin/brach/fuss, mostly brittle, fw hard, tr-nvp, sm pure pcs chl, fw SH: gry/brn, silty, no cup odr, ns.

LS: gry/tan, sm mott, fn xln, foss fust/frags, sm brittle, mostly dense, tr-nvp, abund of chl, 1-2 pcs Chert: wht, opaque, sharp, fw SH: brn/gry, silty, soft, no cup odr, ns.

LS: tan, fn xln, foss fust/frags/var, mostly brittle fw hard, tr-nvp, fw pcs chiky, fw SH: brn/grn, silty, easy-med crush, fw waxy, no cup odr, ns.

LS: tan/gry, fn xln, foss fust/frags, mostly brittle, fw pcs w/ fr in foss por, abund pur chl, sm SH: gry/brn, silty, med crush, no cup odr, ns.

LS: lt tan, fn xln, dense, brittle, mostly uniform, tr-nvp, abund pur chl, fw SH: brn, silty, gritty, no cup odr, ns.

LS: tan, fn xln, foss frags, brittle, mostly uniform, tr-nvp, abund chl, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: gry/tan, fn xln, sm foss brach/ool, dense, sm hard, tr-nvp, abund pur chl, fw SH: gry/brn, silty, soft, no cup odr, ns.

LS: gry/tan, fn xln, fw foss frags, mostly dense/hard, tr-nvp, fw pcs pur chl, no cup odr, ns.

LS: tan, fn xln, fw foss frags, mostly hard, fw SS: gry, vfn grn, sub-rnd, cal cem, med crush, tr-nvp, no cup odr, ns.

LS: tan/gry, fn xln, fw foss frags, dense, mostly hard, tr-nvp, abund silts: gry/brn, silty/sandy, med crush, muddy, sm SS: gry, vfn grn, arg, muddy, no cup odr, ns.

LS: gry/tan, fn xln, fw foss, mostly dense, hard, tr-nvp, fw pcs, LS: gry, fn xln, fw foss frags pr intrare vug por, scat dul yel fluor, vssfo 1-2pcs, fw Chert tan, sharp, foss, no cup odr.

LS: lt tan, fn xln, sm dense, mostly uniform, fr intbdn-rare vug por, dul yel fluor, fr sto, 4-6 pcs/try in 30' smpl, none-faint cup odr, 60" smpl 3-4 pcs/try, mostly tan, dense, tr-nvp.

SH: gry/grn/brn, silty, med crush, fw waxy, fw LS: crm/lt tan, fn xln, foss frags, brittle, tr-ppt-intbdn por, no cup odr, ns.

LS: gry/lt tan, fn xln, fw foss frags/crin/fuss, mostly dense, sm hard, tr-nvp, fw pcs of pur chl, sm SH: drk gry/grn, silty, fissile, easy crush, no cup odr, ns.

LS: gry/lt tan, micro-fn xln, dense, mostly uniform, tr-nvp, fw SH: drk gry/grn, silty, fw waxy, easy crush, no cup odr, ns.

LS: gry/tan, fn xln, foss crin/fuss/frags, dense, sm hard, tr-nvp, sm Chert: gry, sharp, foss, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: gry/tan, mott, fn xln, foss crin/brach, sm profus ool, fw dense/hard, tr-nvp, fw pcs of pur chl, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, foss frags, dense, mostly brittle, tr-nvp, fw pcs w/ drk m in stn, no fluor/no cut, svrl pcs of pur chl, sm SH: drk gry/grn, silty, med crush, sm waxy, no cup odr, ns.

LS: tan/lt gry, fn xln, foss, sm chiky, dense, brittle, tr-nvp, abund SH: drk gry/grn/brn/blk, silty, med crush, sm carb, fw fissile, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly flakey, fw foss crin/frags, sm chiky, tr-nvp, fw SH: gry/brn/blk, silty, med crush, sm carb, no cup odr, ns.

SH: gry/grn, silty, fissile, med crush, sm LS: tan, fn xln, foss, brittle, tr-nvp, fw LS: gry, fn xln, gritty, sandy/grainy, dense/hard, tr-nvp, no cup odr, ns.

LS: lt tan, micro-fn xln, fw foss frags, mostly dense, 1 pcs with vssfo, scat dul yel fluor, shw cut pal blu, abund SH: brn/grn, silty, med crush, fw waxy, no cup odr.

LS: lt tan, fn xln, sm profus ool, mostly dense, fw pcs w/ fr intool por, dul yel fluor, stream cut pal blu, faint cup odr, sso, abund SH: brn/gry, silty, easy-med crush.

LS: lt tan, micro-fn xln, sm foss fust/frags, mostly dense, tr-nvp, abund pur chl, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: lt tan, fn xln, sm profus ool, sm dense, fw pcs w/ fr intool por, abund pur chl, sm SH: gry/grn/brn, silty, easy-med crush, no cup odr, ns.

LS: lt tan, micro-fn xln, fw foss crin/frags, mostly dense, sm hard, tr-nvp, abund SH: gry/grn/brn, silty, sm soft, mostly med crush, no cup odr, ns.

LS: lt tan, micro-fn xln, fw foss frags, dense, sm brittle, mostly uniform, tr-nvp, fw pcs of pur chl, fw SH: gry/brn, silty, fissile, med crush, no cup odr, ns.

SH: brn/gry, silty, easy-med crush, mostly fissile, fw LS: tan, fn xln, sm foss, mostly dense, tr-nvp, no cup odr, ns.

LS: tan, fn xln, sm foss fust/crin, mostly ool, mostly brittle, fw dense, rare tr intool por, fw SH: gry/brn, silty, fissile, no cup odr, ns.

**DST1) 3930-3940**

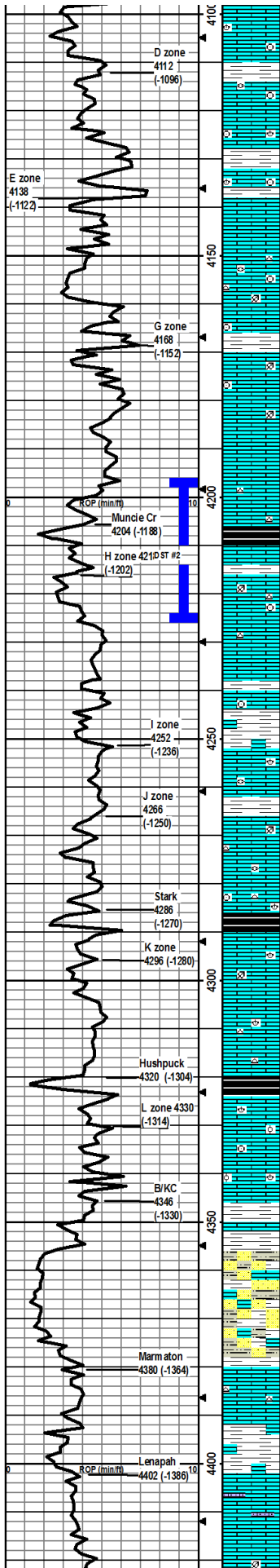
3045/4560  
1st) Wk Surface built to 7"  
2nd) Wk Surface built to 8.5"  
IF 16-88#  
ISIP 116 4# F SIP  
FFP 91-146# F SIP  
113 7#  
HP 1879-1845#  
Recvd: 230' MW w/ oil scum  
and gassy odor on tool

CFS @ 3640'  
30"/60"

Mudco Check #4 @ 3940'  
02/21/12 9:20am  
wt vis pH chl  
8.9 54 10.5 1500  
Filt LCM  
5.5 6#

CFS @ 4066'  
30"/60"





LS: tan, fn xln, foss crin/brach, mostly dense, brittle, tr-nvp, svrl pcs pur chlk, fw SH: brn/grn, silty, soft, no cup odr, ns.  
 LS: tan/lt tan, micro-fn xln, foss fuss/crin/frags, dense, sm brittle, tr-nvp, svrl pcs pur chlk, fw SH: gry/brn, silty, soft, no cup odr, ns.  
 LS: gry/lt tan, fn xln, foss crin/brach, dense, hard, mostly chiky, mostly uniform, tr-nvp, fw pcs pur chlk, no cup odr, ns.  
 LS: gry/lt tan, micro-fn xln, fw foss crin/brach/ool, mostly dense, hard, mostly uniform, tr-nvp, fw pcs pur chlk, fw pcs with drk min stns, no fluor/no cut, fw SH: gry/grn, silty, easy-med crush, no cup odr, ns.  
 LS: lt gry/tan, micro-fn xln, mostly dense, sm hard, uniform, tr-nvp, fw pcs pur chlk, no cup odr, ns.  
 LS: lt tan/tan, fn xln, sm foss fuss/crin/plants, mostly dense, tr-nvp, fw Chert: wht opaque, sharp, fw SH: drk gry/brn, silty, soft, no cup odr, ns.  
 LS: tan/lt gry, fn xln, sm foss plants/crin, sm ool, mostly dense, tr-nvp, fw pcs chlk, fw SH: gry/brn, silty, med crush, fissile, no cup odr, ns.  
 LS: lt tan/crm, micro-fn xln, vry fw foss frags, mostly dense, uniform, tr-nvp, fw SH: gry/grn/brn, silty, sm fissile, easy-med crush, no cup odr, ns.  
 LS: lt tan/crm, micro-fn xln, vry fw foss frags, dense, mostly brittle, mostly uniform, tr-nvp, fw SH: gry/grn/grn, silty, fissile, easy-med crush, no cup odr, ns.  
 LS: lt gry/lt tan, fn xln, mostly dense, mostly hard, fw pcs chiky, tr-nvp, fw SH: gry/grn/brn, silty, fissile, easy-med crush, no cup odr, ns.  
 SH: gry/drk gry, silty, fissile, mostly carb, med crush, fw LS: tan, fn xln, flakey, dense, hard, tr-nvp, fw Chert wht, opaque, foss, no cup odr, ns.  
 LS: tan, fn xln, foss crin/brach, sm chiky, sm dense/hard, tr-nvp, 1-2 pcs w/ slight edge stns, scat wk fluor, no cut, fw Chert wht, opaque, foss, no cup odr, abund SH: gry/grn/drk gry, silty, med crush, fw carb.  
 LS: crm/lt tan, fn xln, fw foss frags, mostly chalky, tr-nvp, 2-3 pcs w/ slight patchy edge stns, dul yel fluor, sl wk cut, no cup odr, Chert: gry/brn, foss.  
 LS: gry/lt tan, fn xln, dense, mostly brittle, uniform, tr-nvp, fw pcs of pur chlk, fw SH: gry/brn, silty, fissile, med crush, no cup odr, ns.  
 LS: tan, fn xln, foss brach/frags, mostly dense, fw flakey, tr-nvp, fw pcs pur chlk, sm SH: gry/brn, silty, med crush, no cup odr, ns.  
 LS: tan, fn xln, foss crin frags, mostly dense, tr-nvp, fw pcs pur chlk, abund SH: gry/olive, silty, sm gritty, med crush, no cup odr, ns.  
 LS: tan/lt tan, fn xln, fw foss brach/fuss, mostly dense, fw pcs chiky, tr-nvp, sm SH: gry/brn/grn, silty, easy-med crush, no cup odr, ns.  
 LS: lt tan/lt gry, fn xln, vry fw foss, mostly dense sm chiky pcs, fw hard, tr-nvp, fw SH: gry/grn, silty, soft, no cup odr, ns.  
 LS: tan, fn xln, vry fw foss, mostly dense, sm brittle, tr-nvp, fw pcs pur chlk, fw Chert: wht, foss brach/frags, no cup odr, ns.  
 LS: lt gry/tan, fn xln, sm foss brach/frags, sm flakey, mostly hard, tr-nvp, fw pcs of chlk, abund of SH: gry/grn/blk, silty, med crush, sm carb, no cup odr, ns.  
 LS: gry/tan, fn-crs xln, sm foss brach/frags, sm flakey, tr-nvp, 1-2 pcs w/ slight edge stains, wk dul yel fluor, stream cut pal bliu, vsgfo, fw SH: gry/drk gry, silty, med crush, no cup odr.  
 LS: tan/lt gry, fn xln, vry fw foss frags, flakey, mostly hard, tr-nvp, fw pcs pur chlk, fw SH: gry, silty, soft, no cup odr, ns.  
 LS: gry/tan, fn xln, sm foss, sm flakey, mostly hard, tr-nvp, fw pcs of chlk, fw Chert: gry, opaque, sharp, fw SH: gry/grn/blk, silty, med crush, sm carb, no cup odr, ns.  
 LS: gry/tan, fn xln, foss brach/ool, sm flakey, mostly hard, tr-nvp, fw pcs w/ drk stns, does no fluor/no cut, sm SH: gry/drk gry, silty, easy-med crush, no cup odr, ns.  
 LS: gry/tan, sm mott, fn xln, foss brach/crin/ool, tr-nvp, sm pcs w/ drk min stns, no fluor/no cut, fw pcs of pur chlk, no cup odr, ns.  
 LS: tan, fn xln, vry fw foss frags, mostly dense/brittle, mostly uniform, tr-nvp, fw pcs of pur chlk, no cup odr, ns.  
 SitStn: brn, soft, muddy, sm SS: lt brn, vln grn, sub rnd, arg, med crush, fw SH: grn/grn, silty, soft, sm LS: gry/tan, fn xln, foss, tr-nvp, no cup odr, ns.  
 SitStn: brn, soft, muddy, sm SS: lt brn, vln grn, arg, med-hard crush, sm SH: gry/grn, silty, waxy, easy-med crush, fw LS: gry/tan, sm mott, fn-crs xln, foss, tr-nvp, no cup odr, ns.  
 SitStn: brn, soft, muddy, sm SS: lt brn, vln grn, arg, med crush, abund SH: drk gry/grn/brn, silty, fissile, med crush, fw LS: tan, fn xln, foss, brittle, tr-nvp, no cup odr, ns.  
 LS: tan/lt tan, fn-med xln, flakey, sm brittle, mostly uniform, tr-nvp, fw pcs pur chlk, fw Chert: gry, sharp, sm SH: gry/brn, silty, med crush, no cup odr, ns.  
 LS: tan, fn xln, fw foss frags, sm flakey, sm hard, tr-nvp, abund SH: gry/brn, silty, fissile, med crush, no cup odr, ns.  
 LS: gry/tan, fn xln, sandy/gritty, sm flakey, mostly dense, med crush, tr-nvp, sm SH: gry/grn, silty, easy-med crush, no cup odr, ns.  
 SH: gry/grn, silty, sm gritty, fissile, easy-med crush, sm SitStn: gry/brn, soft, fw LS: gry, fn xln, dense, hard, no cup odr, ns.

**DST2) 4196-4225**

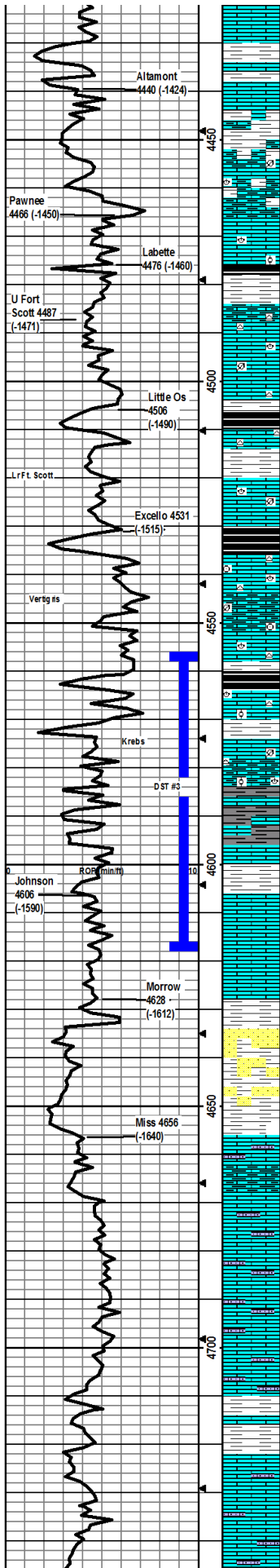
030303030  
 1st) WK Surface died in 10"  
 2nd) WK Surface died in 1"  
 IFF 25-27#  
 ISIP 729# FSP  
 FFP 15-20# FSP  
 705#  
 HP 2038-2013#  
 Recvd: 1' of Mud w/ few oil spots

CFS @ 4225'  
 30"/60"

Mudco Check #5 @ 4205'  
 0222/12 9:30am  
 wt vis pH chl  
 8.9 55 10.0 2000  
 Filt LCM  
 6.4 5#

Mudco Check #6 @ 4280  
 0223/12 5:15am  
 wt vis pH chl  
 8.2 59 9.5 3000  
 Filt LCM  
 7.6 4#

CFS @ 4313'  
 30"/60"



LS: tan, fn xln, fw foss frags, mostly dense, fw flakey, tr-nvp, abund SH: gry/grn/brn, silty, easy-med crush, no cup odr, ns.

LS: tan/lt tan, fn xln, flakey, mostly hard, sm chiky, tr-nvp, sm SH: gry/drk gry/grn, silty, sm fissile, easy-med crush, no cup odr, ns.

LS: tan/lt tan, fn-med xln, mostly flakey, sm fairly hard, fw chiky, tr-nvp, abund SH: gry/grn/purp, silty, sm fissile, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, fw foss frags/brach, sm flakey, fw chiky, rare ppt-intxn por, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: gry/tan, fn xln, mostly flakey, hard, tr-nvp, fw pcs of pur chik, sm SH: gry/grn, silty, med crush, fw Slt Stn: gry/brn, silty, vry soft, no cup odr, ns.

SH: gry/grn/blk, silty, fissile, med crush, sm carb, fw LS: tan/gry, sm mott, fn-med xln, fw foss brach/frags/ool, mostly hard, tr-nvp, no cup odr, ns.

LS: tan, fn xln, mostly dense, mostly uniform, fw pcs chiky, tr-nvp, svrl pcs Chert wht, opaque, sharp, fw SH: gry/brn, silty, easy crush, no cup odr, ns.

LS: tan, fn xln, fw foss frags/brach, fw ool, mostly flakey, tr-nvp, fw pcs Chert wht/gry, fw foss, sharp, no cup odr, ns.

SH: gry/blk, silty, med crush, mostly carb, fw LS: lt tan, fn xln, sm hard, tr-nvp, fw Chert: wht, opaque, sharp, no cup odr, ns.

LS: lt gry/lt tan, fn xln, mostly dense, brittle, tr-nvp, fw pcs of pur chik, fw Chert: wht, opaque, sharp, abund SH: gry/blk, silty, mostly carb, no cup odr, ns.

LS: lt gry/lt tan, fn xln, foss brach/frags, dense, sm brittle, tr-nvp, fw pcs of pur chik, sm SH: gry/grn/blk, silty, med crush, mostly carb, no cup odr, ns.

LS: gry/tan, fn xln, foss frag/brach, vry ool, dense, brittle, tr-nvp, fw pcs chiky, fw Chert wht, opaque, sharp, abund SH: gry/drk gry, silty, easy-med crush, sm carb, no cup odr, ns.

LS: gry/tan, fn xln, foss brach/crin, fw ool, mostly hard, tr-nvp, fw Chert: gry, foss, sharp, svrl pcs SH: gry/blk, silty, med crush, fw carb, no cup odr, ns.

LS: tan, fn xln, foss brach/crin/frags, fw dense/hard, mostly brittle, sm chiky, tr-nvp, fw SH: gry/grn/purp, silty, easy-med crush, 1-2 pcs Chert: gry, sharp, no cup odr, ns.

LS: lt tan/tan, micro-fn xln, foss brach/frags, fw ool, mostly dense/hard, tr-nvp, svrl pcs Chert: gry, semi-trans, fw pcs SH: gry/drk gry/gry, silty, easy-med crush, sm carb, no cup odr, ns.

LS: lt tan, micro-fn xln, vry fw foss, mostly dense, fw brittle, sm chiky, tr-nvp, fw Chert: gry, sharp, fw SH: gry/grn/brn, silty, fissile, easy-med crush, no cup odr, ns.

LS: gry/tan, fw mott, fw foss brach/frags, fw ool, mostly hard, fw chiky, tr-nvp, sm SH: gry/brn, silty, fissile, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, fw foss var/frags, sm chiky, mostly dense rare ppt-intxn por, sm SH: gry/grn/purp, silty, soft, no cup odr, ns.

LS: lt tan, fn xln, mostly dense, fw pcs chiky, scat fr vug por, svrl pcs w/ spot stains in ppt-txn, dul yel fluor, stream cut wht/pai blu, slight-frsto, 6-8 pcs/try, slight cup odr.

30" Stop sample LS: much like above, more fr-gd vug por, 8-10 pcs/try, fr sfo, fr cup odr, vry fw pcs in 60" smpl.

LS: lt tan/tan, fn xln, foss brach/frags, sm brittle, sm chiky, tr-nvp, fw SH: gry/grn, silty, easy-med crush, fw fissile, no cup odr, ns.

SH: gry/grn/drk gry, silty, fissile, sm waxy, med crush, fw Chert wht, opaque, sharp, sm SS: wht, fn grns, sub-rnd, sil cem, med-hard crush, tr intgrn por, no cup odr, ns.

SH: drk gry/gry/grn/brn, silty, easy-med crush, mostly fissile, fw SS: wht, fn grn, sub-rnd, sil cem, med crush, tr int-grn por, no cup odr, ns.

SH: brn/gry/grn, silty, med crush, fw fissile, sm LS: oliv/tan, micro-fn xln, mostly dense, mostly hard, fw pcs lght colored and flakey, tr-nvp, no cup odr, ns.

LS: oliv/gry/tan, fn xln, mostly dense/hard, fw brittle, fw pcs gritty/sandy, tr-nvp, sm SH: gry/grn/oliv/brn, silty, med crush, no cup odr, ns.

LS: tan/lt tan, fn xln, foss frags, sandy/gritty, sm brittle, tr-nvp, fw SH: brn/gry/grn, silty, easy-med crush, vry fw Chert oliv-gry, semi-trans, sharp, no cup odr, ns.

LS: lt tan, fn xln, gritty/sandy, mostly brittle, mostly uniform, tr-nvp, vry fw SH: brn/gry/grn, silty, easy-med crush, no cup odr, ns.

LS: lt tan/crm, fn xln, gritty/sandy, mostly brittle mostly uniform, tr-nvp, 1 pc w/ spotty brn stains, does not cut, sm SH: gry/brn/grn, silty, fissile, med crush, no cup odr, ns.

LS: crm/lt tan, fn xln, sandy/gritty, mostly brittle, fw pcs chiky, tr-nvp, abund SH: gry/grn, silty, fissile, med crush, no cup odr, ns.

SH: brn/gry, silty, fissile, med crush, sm LS: crm/lt tan, fn xln, sandy/gritty, mostly brittle, tr-nvp, no cup odr, ns.

SH: brn/gry/grn, silty, sm fissile, easy-med crush, fw LS: crm/lt tan, fn xln, sandy/gritty, mostly brittle, vry fw hard, no cup odr, ns.

SH: brn/gry/grn, silty, fissile, easy-med crush, sm LS: lt tan, fn xln, sm sandy/gritty, brittle, vry fw dense, hard, tr-nvp, no cup odr, ns.

LS: lt tan, fn xln, sm sandy/gritty, sm brittle, fw dense/hard, tr-nvp, abund SH: arv/brn/orn, silty, med crush, no cup odr, ns.

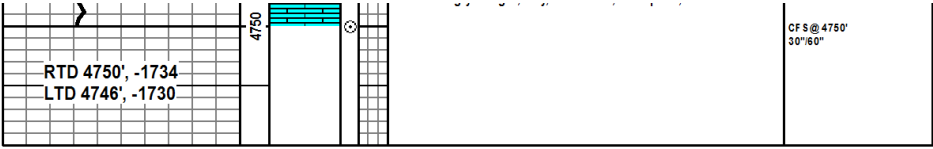
**DST3) 4556-4617**

30456090  
1st) BOB 3"  
2nd) BOB 5.5"  
IFP 79-137#  
ISIP 959#  
FFP 397-588# FSP  
903#  
HP 2210-2205#  
Recvd: 380 GIP, 170 CO,  
1587 GMCO

Mudco Check #7 @ 4617  
02/24/12 7:30am  
wt vis pH chl  
9.4 57 10.5 3000  
FIR LCM  
4.8 4#

CFS @ 4617  
30"/60"

Mudco Check #8 @ 4695  
02/25/12 3:36am  
wt vis pH chl  
9.4 59 10.0 4000  
FIR LCM  
6.4 4#





**CONSOLIDATED**  
Oil Well Services, Inc.



TICKET NUMBER 33915

LOCATION Oakley KS

FOREMAN Fuzzy

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

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

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY												
2-17-12	3372	G. Anderson #5-26	25	12	32	logan												
CUSTOMER Grand mesa Operating			<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>463</td> <td>miles S</td> <td></td> <td></td> </tr> <tr> <td>439</td> <td>Bobby S</td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	463	miles S			439	Bobby S		
TRUCK #	DRIVER	TRUCK #					DRIVER											
463	miles S																	
439	Bobby S																	
MAILING ADDRESS																		
CITY	STATE	ZIP CODE	<table border="1"> <thead> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER								
TRUCK #	DRIVER	TRUCK #	DRIVER															

JOB TYPE Surface HOLE SIZE 12"4 HOLE DEPTH 214' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 214' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.7 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 12.3 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Murrin #24. Rig up and circulate  
Mix 165 SKS class 'A' 390cc 290cc. Displace 12"4 BBL and  
shut in. Cement did circulate approx 5 BBL to pit.

Thanks Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085 <sup>00</sup>	1085 <sup>00</sup>
5406	10	MILEAGE	5 <sup>00</sup>	50 <sup>00</sup>
5407	7.6 ton	Ton mileage Delivery	410 <sup>00</sup>	410 <sup>00</sup>
11045	165 SKS	class 'A' cement	17 <sup>65</sup>	2912 <sup>75</sup>
1102	465 #	calcium chloride	.89	413 <sup>75</sup>
1118B	310 #	Bentonite	.25	77 <sup>50</sup>
		subtotal		4948 <sup>00</sup>
		less 1090 disc		494 <sup>80</sup>
		subtotal		4453 <sup>20</sup>
		247908	SALES TAX	238.94
			ESTIMATED TOTAL	4692.68

Ravin 3737

AUTHORIZATION Anthony Hart TITLE Fushe rig #24 DATE 2-17-12

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.

JOB LOG

SWIFT Services, Inc.

DATE 2-26-12 PAGE NO.

CUSTOMER *Grand Mesa* WELL NO. *#5-26* LEASE *Anderson* JOB TYPE *2-stage* TICKET NO. *21413*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0140							on loc w/FE
								RTD 4750'
								5 1/2" x 15.5" x 4750' x 12'
								Cent. 2, 4, 6, 8, 10, 12, 14, 16, 52
								Back 2, 53
								DV 53 @ 2549'
	0245							ST FE
	0500							Break Circ
	0525	5	0			200		Start Pref <sup>500 gal Mud flush</sup> 20 bbl KCL flush
	0532	6	32/0			200		Start 175 sks EA-2 cement
	0538		42					End Cement
								Drop L D Plug
	0541	7	0			200		Start Displacement wtr
	0550	5	60			300		mud
	0600		113			<del>800</del> <del>1500</del>		Land Plug
								Release Pressure (Float Held)
								Drop Opening Plug
								Washup Trk
	0615					1200		Open DV Tool
								Circ Til 0800
	0750		7/5					Plug RH + MH 30/15 sks SMD
	0800	5	0			150		start KCL flush
	0804	6	20/0			200		Start 255 sks SMD
	0827		138					End Cement
								Drop Closing Plug
	0830	6	0			200		Start Displacement
	0838	5	42			300		Circulate Cement
	0845		60.5			<del>450</del> <del>1500</del>		Land Plug
								Close DV
								Release Pressure
								DV closed
Circ 35 sks top it								
								Thank you
								Nick, Don, Shane, Isaac, & Russ

# Pro-Stim Chemicals LLC

## Jobbing Report

Date 3-12-12

Customer <u>Grand Mesa</u>		Pro-Stim Chemical Yard <u>C.W.</u>		Pro-Stim Number <u>63232</u>	
Well Name & Number <u>Andersen</u>		Field		Formation <u>Johnson</u> Spot <del>4615</del>	
County <u>Jogan</u>	State <u>KS</u>	BHT	YD	Interval	

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

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 <u>4540</u>			
Casing Size:	GRD	WT	Depth	Tubing Size:	GRD	WT	Spot <u>46015 Acid</u>
Casing Vol.	Tbg Vol		Ann Vol	OH Vol	Total Displacement		
	Tubing <u>2 7/8</u>		Casing <u>5 1/2</u>	Proposed Pump Time	AOL	Leave Loc	

500 gals 15% HC-1 Acid  
w/ additives

### Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
							Safety Meeting
							Prs Test to _____ psi
<u>29</u>	<u>Acid</u>	<u>3.0</u>	<u>spot</u>	<u>Acid</u>			
<u>30</u>	<u>Acid</u>	<u>3.0</u>			<u>40 PSI</u>		
<u>31</u>	<u>Acid</u>	<u>3.0</u>			<u>40 PSI</u>		
<u>31</u>	<u>Flush</u>	<u>3.0</u>			<u>40 PSI</u>		
<u>31</u>	<u>Flush</u>	<u>3.0</u>	<u>Loaded</u>		<u>4-PSI</u>		
<u>31</u>	<u>Flush</u>	<u>15</u>			<u>300</u>		
<u>31</u>	<u>Flush</u>	<u>17</u>			<u>250</u>		
<u>31</u>	<u>Flush</u>	<u>1.0</u>			<u>200</u>		
<u>30</u>	<u>Flush</u>	<u>1.25</u>			<u>150</u>		
<u>32</u>	<u>Flush</u>	<u>1.5</u>			<u>200</u>		
<u>34</u>	<u>Flush</u>	<u>2.0</u>			<u>250</u>		
<u>34</u>	<u>Flush</u>	<u>2.0</u>			<u>250</u>		
<u>34</u>	<u>Pressure</u>				<u>150</u>		
	<u>30 seconds</u>		<u>70</u>	<u>vac</u>			

### Treatment Synopsis

Initial BPM	Total Injected		H2O <u>2 3/8 Bbls</u>	Acid <u>12 Bbls</u>	Oil	
	Final	Avg.	ISIP	5'SI	10'SI	15'SI
Max <u>300</u>						
Customer Representative			Pro-Stim Supervisor			

# Pro-Stim Chemicals, LLC

P.O. Box 25  
Cheyenne Wells, CO 80810

MAR 19 2012

# Invoice

Date	Invoice #
3/15/2012	63232

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

Ship To

Requested By	Terms	Sales Rep.	Ship	Lease
	Net 30	T P	3/12/2012	ANDERSEN 5-26

Quantity	Item Code	Description	Price Each	Amount
500	15% HCl ACID	GALLONS	[REDACTED]	[REDACTED]
15	S-3000	GALLONS		
10	RENAB	GALLONS		
2	AC-307	GALLONS		
2	S-262	GALLONS		
1	AI-150	GALLONS		
28	KCL BIOCIDE - 2%	BRLS		
1	DUMP JOB			
3.5	TRUCK TIME	HOURS		
		Sales Tax - LOGAN CO.		

**Total** [REDACTED]

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

*FB*

Acidizing Report

**PRO-STIM CHEMICALS**

63414

Date 3-14-12

Customer <i>Grand Mesa</i>	Pro-Stim Chemical Yard <i>Dighton</i>	Pro-Stim Number <i>AG</i>
Well Name & Number <i>Anderson 5-26</i>	Field	Formation Spot <i>3 barrel</i>
County <i>Logan</i>	State <i>KS</i>	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 <i>4525</i>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------	-----------------------------

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:

*1,500 gals 15% HC-1 Acid  
w/additives*

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
<i>minutes</i>							Safety Meeting
<i>1</i>	<i>Acid</i>		<i>Spot</i>	<i>3</i>			Prs Test to _____ psi
<i>12</i>	<i>Acid</i>	<i>2.8</i>		<i>4.7</i>	<i>40</i>		
<i>18</i>	<i>Acid</i>	<i>2.8</i>		<i>18</i>	<i>40</i>		<i>Acid gone</i>
<i>22</i>	<i>Flush</i>	<i>2.8</i>		<i>28.5</i>	<i>10</i>		<i>Flush</i>
<i>28</i>	<i>Flush</i>	<i>2.8</i>		<i>45</i>	<i>70</i>		<i>Flush gone</i>
<i>29</i>	<i>Acid</i>	<i>2.6</i>		<i>49.4</i>	<i>80</i>		<i>Acid</i>
<i>33</i>	<i>Acid</i>	<i>2.6</i>		<i>58</i>	<i>60</i>		<i>Acid</i>
<i>35</i>	<i>Acid</i>	<i>2.6</i>		<i>63</i>	<i>80</i>		<i>Acid gone</i>
<i>36</i>	<i>Flush</i>	<i>2.7</i>		<i>65</i>	<i>0</i>		<i>Flush</i>
<i>49</i>	<i>Flush</i>	<i>2.0</i>		<i>90</i>	<i>40</i>		<i>Done</i>

Treatment Synopsis

Avg Inj Rate	Fluid BPM	Total Injected	H2O <i>54</i>	Acid <i>36</i>	Oil
Treating Prs.	Max <i>80</i>	Final <i>40</i>	Avg. <i>60</i>	ISIP <i>VAL</i>	5'SI 10'SI 15'SI
Customer Representative				Pro-Stim Supervisor	<i>Shannon M.</i>



APR - 9 2012

# Pro-Stim Chemicals, LLC

P.O. Box 25  
 Cheyenne Wells, CO 80810

# Invoice

Date	Invoice #
3/26/2012	63416

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

Ship To

Requested By	Terms	Sales Rep.	Ship	Lease
	Net 30	T P	3/14/2012	ANDERSEN 5-26

Quantity	Item Code	Description	Price Each	Amount
1,500	15% HCl ACID	GALLONS		
20	S-3000	GALLONS		
30	AD-795	GALLONS		
6	S-262	GALLONS		
6	AC-307	GALLONS		
4	AI-150	GALLONS		
5	KCL-1KW	GALLONS		
1	B-125BL	GALLONS		
1	DUMP JOB			
3	TRUCK TIME	HOURS		
		Sales Tax - LOGAN CO.		

			<b>Total</b>	
--	--	--	--------------	--

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  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 12, 2012

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

Re: ACO1  
API 15-109-21075-00-00  
G. ANDERSEN 5-26  
NE/4 Sec.26-12S-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