



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1101188
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: _____



1101188

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

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

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	HOSS 1-27
Doc ID	1101188

All Electric Logs Run

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

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	HOSS 1-27
Doc ID	1101188

Tops

Name	Top	Datum
Stone Corral	1511	+748
Bs/Stone Corral	1556	+703
Heebner	3705	-1446
Lansing	3751	-1492
Muncie Creek	3905	-1646
Stark	4032	-1773
Marmaton	4112	-1853
Excello	4278	-2019
Mississippian	4328	-2069
LTD	4544	

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



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

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 21, 2012

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

Re: ACO1
API 15-135-25490-00-00
HOSS 1-27
NW/4 Sec.27-19S-23W
Ness 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

DIAMOND TESTING

General Information Report

General Information

Company Name GRAND MESA OPERATING COMPANY
Contact RONALD SINCLAIR
Well Name HOSS #1-27
Unique Well ID DST #1, FT. SCOTT, 4240-4281
Surface Location SEC 27-19S-23W, NESS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, FT. SCOTT, 4240-4281
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator GRAND MESA OPERATING CO.
Report Date 2012/10/15
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2012/10/15
Final Test Date 2012/10/15

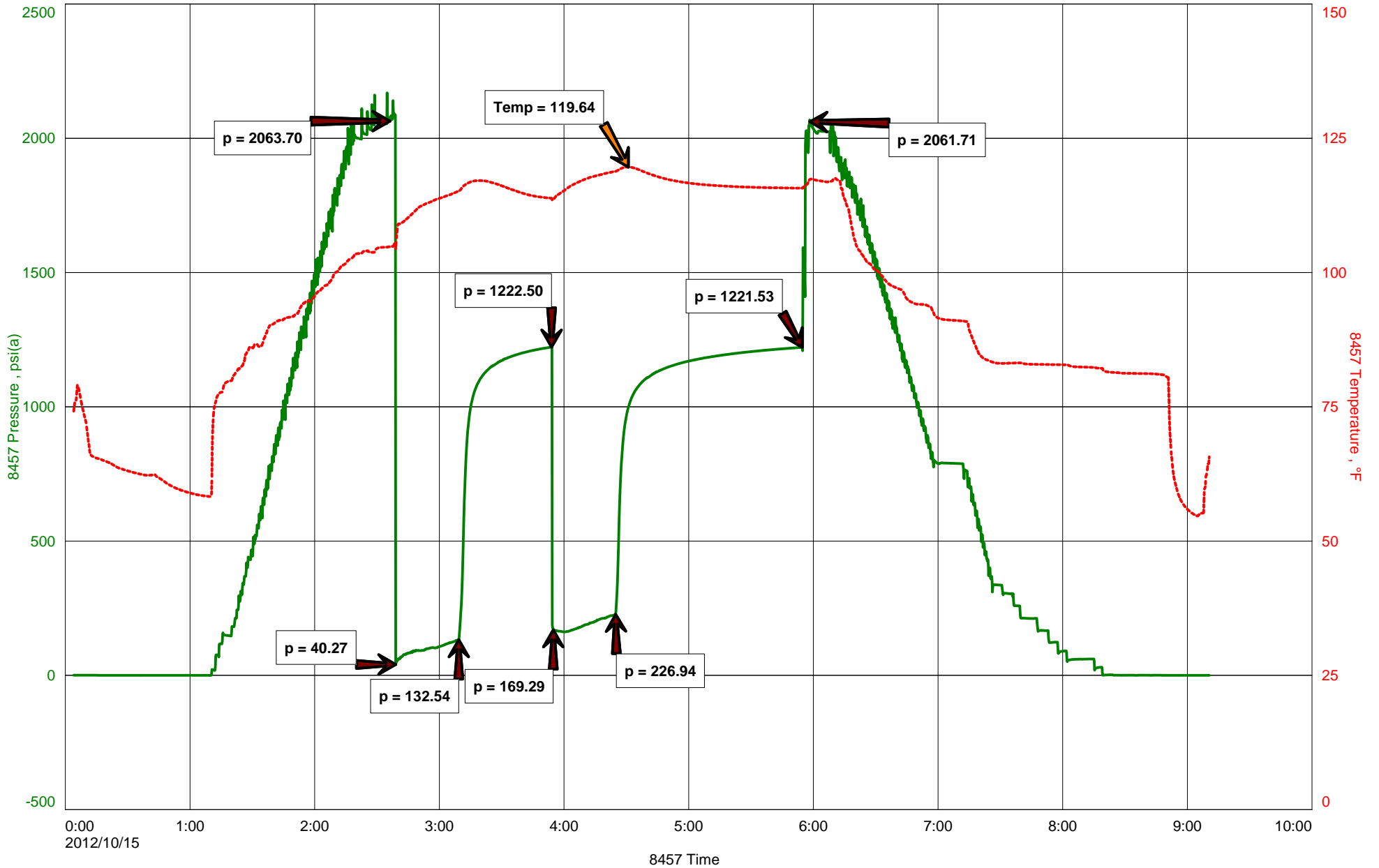
Start Test Time 00:04:00
Final Test Time 09:11:00

Test Recovery:

RECOVERED: 3615' GAS IN PIPE
280' GO, 20% GAS, 80% OIL, GRAVITY: 41
315' G,SMCO, 18% GAS, 74% OIL, 8% MUD
595' TOTAL FLUID

TOOL SAMPLE: 3% GAS, 92% OIL, 5% MUD

HOSS #1-27





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.

DIAMOND TESTING

General Information Report

General Information

Company Name GRAND MESA OPERATING COMPANY
Contact RONALD SINCLAIR
Well Name HOSS #1-27
Unique Well ID DST #2, CHEROKEE, 4275-4300
Surface Location SEC 27-19S-23W, NESS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #2, CHEROKEE, 4275-4300
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator GRAND MESA OPERATING CO.
Report Date 2012/10/16
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2012/10/15
Final Test Date 2012/10/16

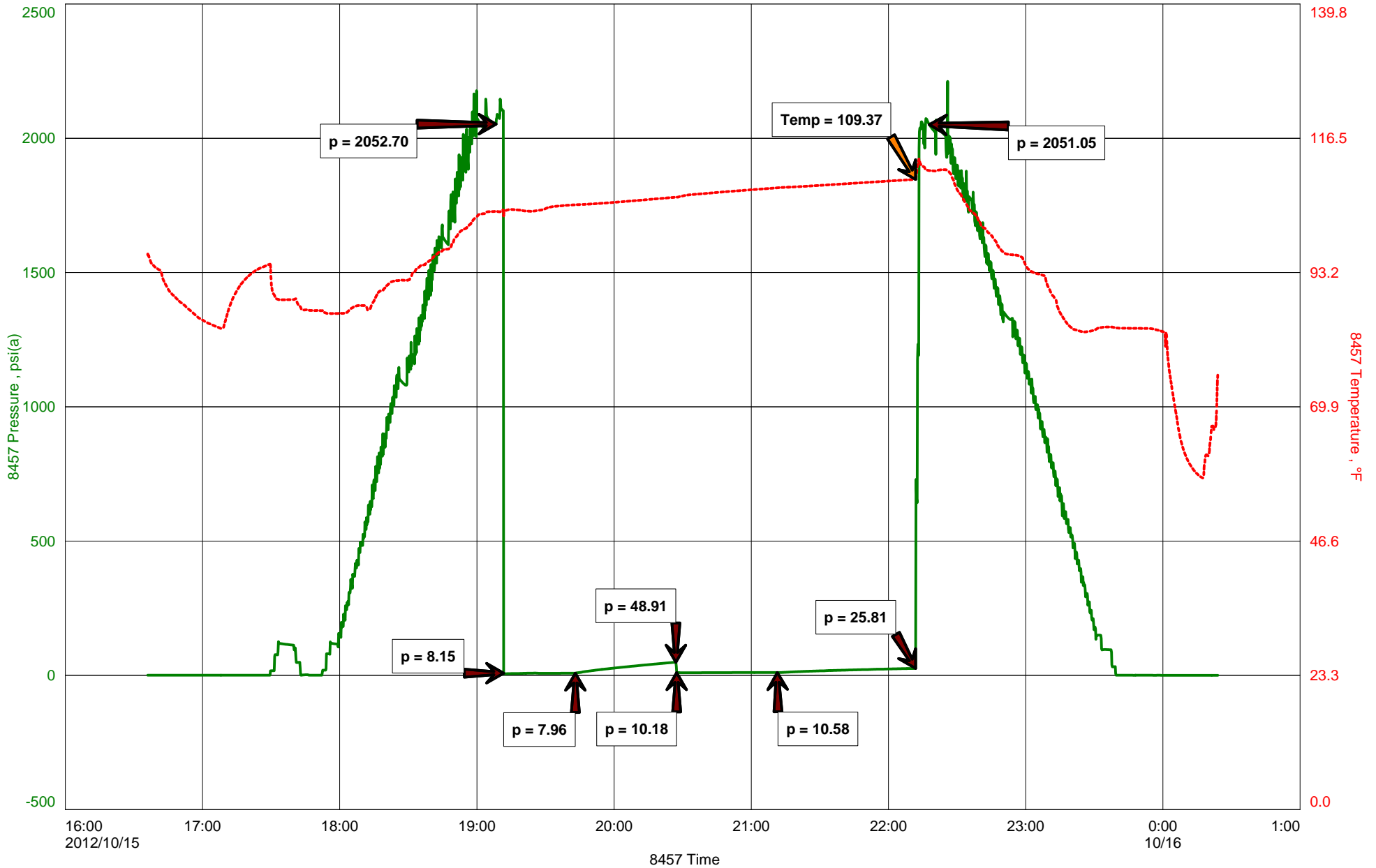
Start Test Time 16:36:00
Final Test Time 00:24:00

Test Recovery:

RECOVERED: 20' SOCM 18% OIL, 82% MUD

TOOL SAMPLE: 16% OIL, 84% MUD

HOSS #1-27





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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DIAMOND TESTING

General Information Report

General Information

Company Name GRAND MESA OPERATING COMPANY
Contact RONALD SINCLAIR
Well Name HOSS #1-27
Unique Well ID DST #3, MISSISSIPPIAN, 4355-4368
Surface Location SEC 27-19S-23W, NESS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #3, MISSISSIPPIAN, 4355-4368
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator GRAND MESA OPERATING CO.
Report Date 2012/10/16
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2012/10/16
Final Test Date 2012/10/16

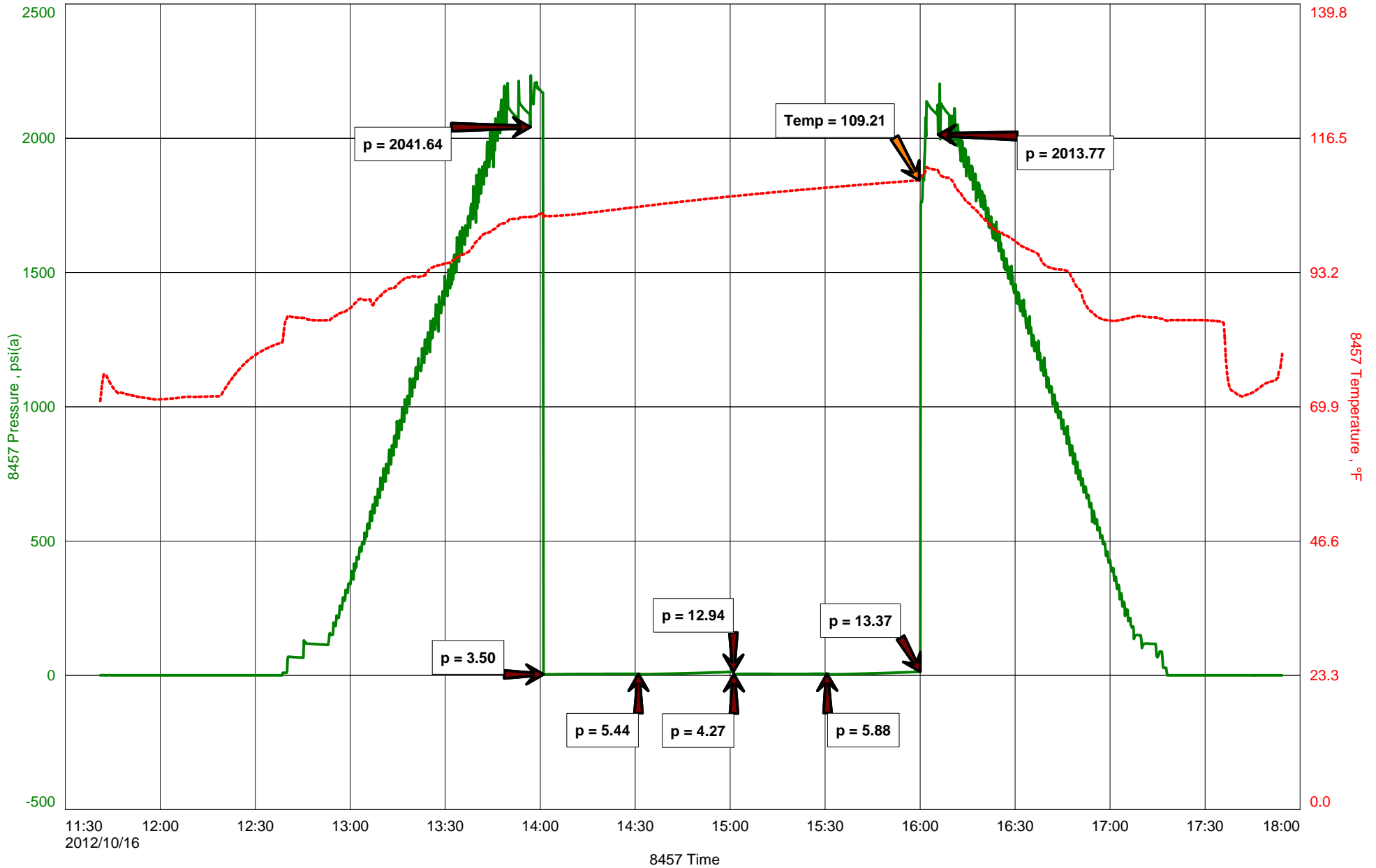
Start Test Time 11:41:00
Final Test Time 17:53:00

Test Recovery:

RECOVERED: NOTHING

TOOL SAMPLE: TRACE OIL, 100% MUD

HOSS #1-27





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

General Information Report

General Information

Company Name GRAND MESA OPERATING COMPANY
Contact RONALD SINCLAIR
Well Name HOSS #1-27
Unique Well ID DST #4, MISSISSIPPIAN, 4357-4378
Surface Location SEC 27-19S-23W, NESS CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #4, MISSISSIPPIAN, 4357-4378
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator GRAND MESA OPERATING CO.
Report Date 2012/10/17
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2012/10/17
Final Test Date 2012/10/17

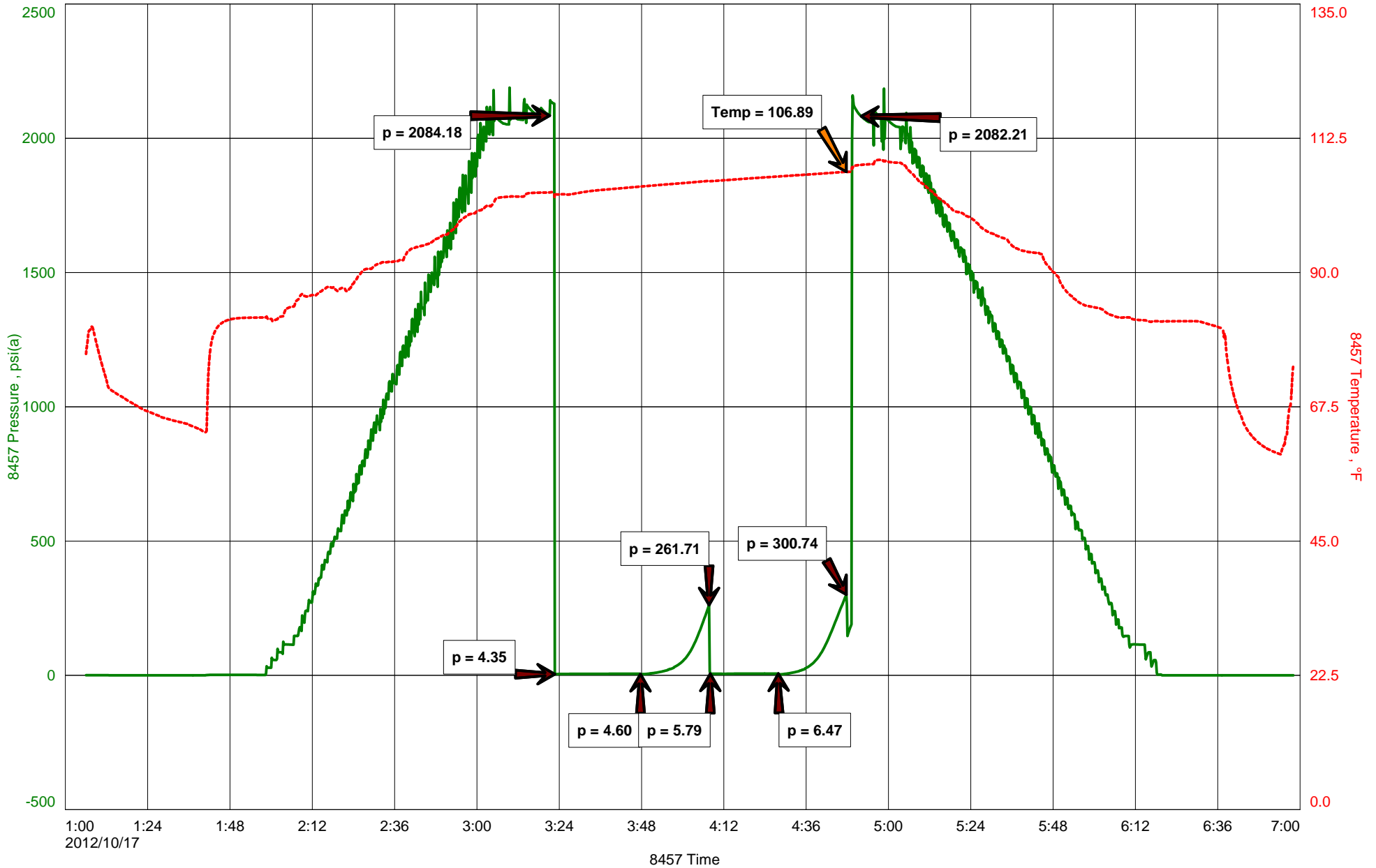
Start Test Time 01:06:00
Final Test Time 06:58:00

Test Recovery:

RECOVERED: 5' MUD

TOOL SAMPLE: SPOTTY OIL, 100% MUD

HOSS #1-27





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

Well Name: #1-27 Hoss
 Location: 575' FNL, 2206' FWL, SECTION 27-19S-23W, SW NE NE NW
 License Number: API: 15-135-25490 Region: Ness County
 Spud Date: 10/08/2012 Drilling Completed: 09/18/2012
 Surface Coordinates: LAT 38.3765486
 LONG -99.8533910
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 2254' K.B. Elevation (ft): 2259'
 Logged Interval (ft): 3600' To: RTD Total Depth (ft): 4546'
 Formation: Mississippian at RTD
 Type of Drilling Fluid: Chemical
 Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

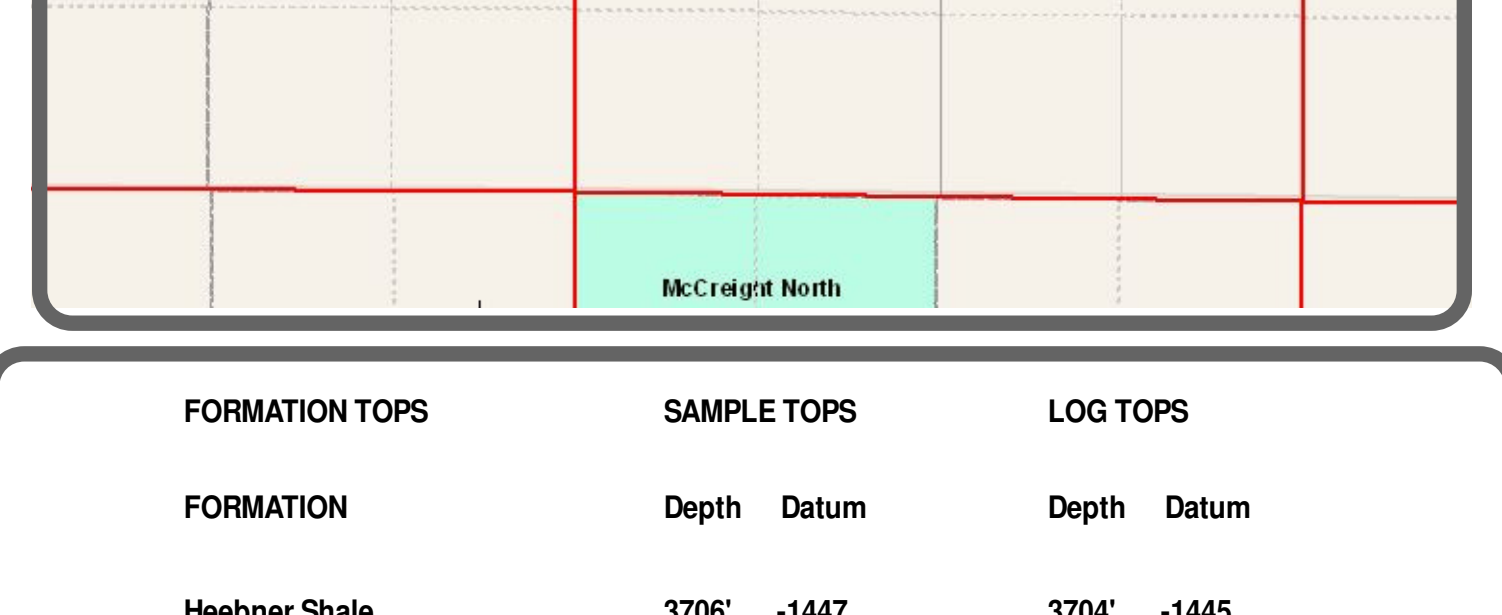
Company: Grand Mesa Operating Company
 Address: 1700 N. Waterfront Parkway, Bldg. 600
 Wichita, KS 67206-5514
 316-265-3000

GEOLOGIST

Name: John Goldsmith
 Company: John Goldsmith WellSite Service
 Address: 427 Roosevelt St.
 Cheney, KS 67025
 316-640-0236

COMMENTS

Contractor: Mallard Rig #1
 Pusher: Lavon Urban
 Surface Casing: 8 joints of 8 5/8" set at 317'
 Production Casing: 5.5" Production Casing was installed.
 Mud by: MudCo
 DST's by: Diamond Testing
 Logs by: Weatherford Wireline (DIL, CN-CD, ML, CS)
 RTD=4546'
 LTD=4544'



FORMATION TOPS SAMPLE TOPS LOG TOPS

FORMATION	Depth	Datum	Depth	Datum
Heebner Shale	3706'	-1447	3704'	-1445
Toronto	3722'	-1463	3720'	-1461
Lansing	3753'	-1494	3752'	-1493
Muncie Creek Shale	3904'	-1643	3902'	-1641
Stark Shale	4033'	-1774	4031'	-1772
Hushpuckney Shale	4059'	-1800	4058'	-1799
Base of KC	4084'	-1825	4084'	-1825
Marmaton	4094'	-1835	4092'	-1833
Pawnee	4173'	-1914	4172'	-1913
Little Osage Shale	4250'	-1991	4250'	-1991
Fi Scott	4254'	-1995	4254'	-1995
Excello Shale	4278'	-2019	4276'	-2017
Mississippian	4348'	-2089	4348'	-2089
RTD	4546'	-2287		
LTD			4544'	-2285

DSTs

DST #1 "Fi Scott" 10-15-2012 4240'-4281' 30-45-30-90
 1st Open = 2" Built to BOB in 1.5" (Blow Back BOB Gas at Surface)
 2nd Open = BOB in 15 Seconds (Blow Back BOB Gas at Surface)
 IFP = 40-133# ISIP = 1223# FFP = 169-227# FSIP = 1222#
 HYDP = 2064-2062#
 595' Total Fluid 3615' GIP
 280' GO (80% Oil), 315' GSMCO (18% Gas, 74% Oil)

DST #2 "Cherokee" 10-16-2012 4275'-4300' 30-45-45-60
 1st Open = Weak Surface Blow Built to 3/4" (No Blow Back)
 2nd Open = Weak Surface Blow (No Blow Back)
 IFP = 8-8# ISIP = 49# FFP = 10-11# FSIP = 26#
 HYDP = 2053-2051#
 20' SOCM (18% Oil)

DST #3 "Mississippi" 10-16-2012 4355'-4368' 30-30-30-30
 1st Open = Weak Surface Blow (No Blow Back)
 2nd Open = Weak Surface Blow (No Blow Back)
 IFP = 4-5# ISIP = 13# FFP = 4-6# FSIP = 13#
 HYDP = 2042-2014#
 0' Tool had some Oil Spec Mud

DST #4 "Mississippi" 10-17-2012 4357'-4378' 25-20-20-20
 1st Open = Weak Surface Blow, Died in 15" (No Blow Back)
 2nd Open = No Blow (No Blow Back)
 IFP = 4-5# ISIP = 262# FFP = 6-6# FSIP = 301#
 HYDP = 2084-2082#
 5' Mud

ROCK TYPES

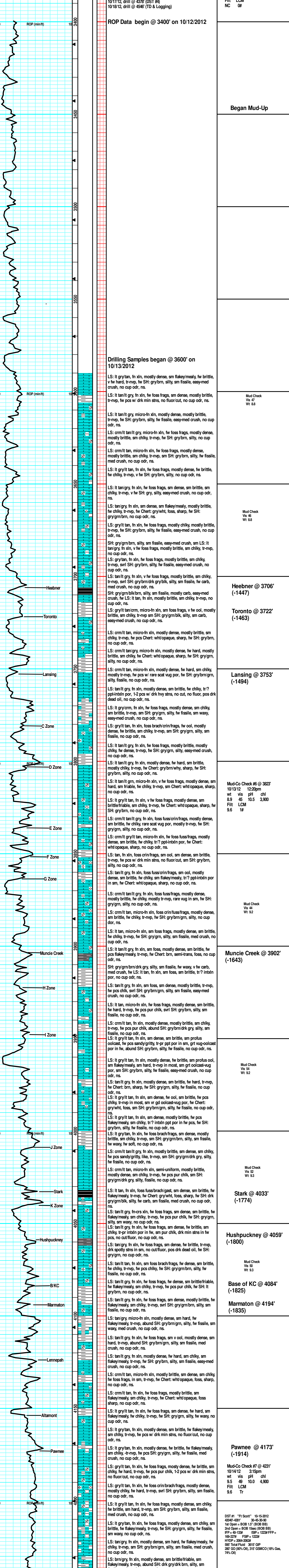
Anhy	Salt	Dol	Siltysh
Coal	Shale	Dtd	Soy dolo
Belm	Shcol	Gry sh	Silty dolo
Bioclst	Shst	Sandylms	Shy dolo
Brach	Shst	Shale	Shly dolo
Zyozoa	Ss	Siltstn	Shlys
Cephal	Carb sh	Siltstn	
Coral			
Echin			
Fish			
Foram			
Gastro			
Oolite			
Ostra			
Pelec			
Pellet			
Pisolite			

ACCESSORIES

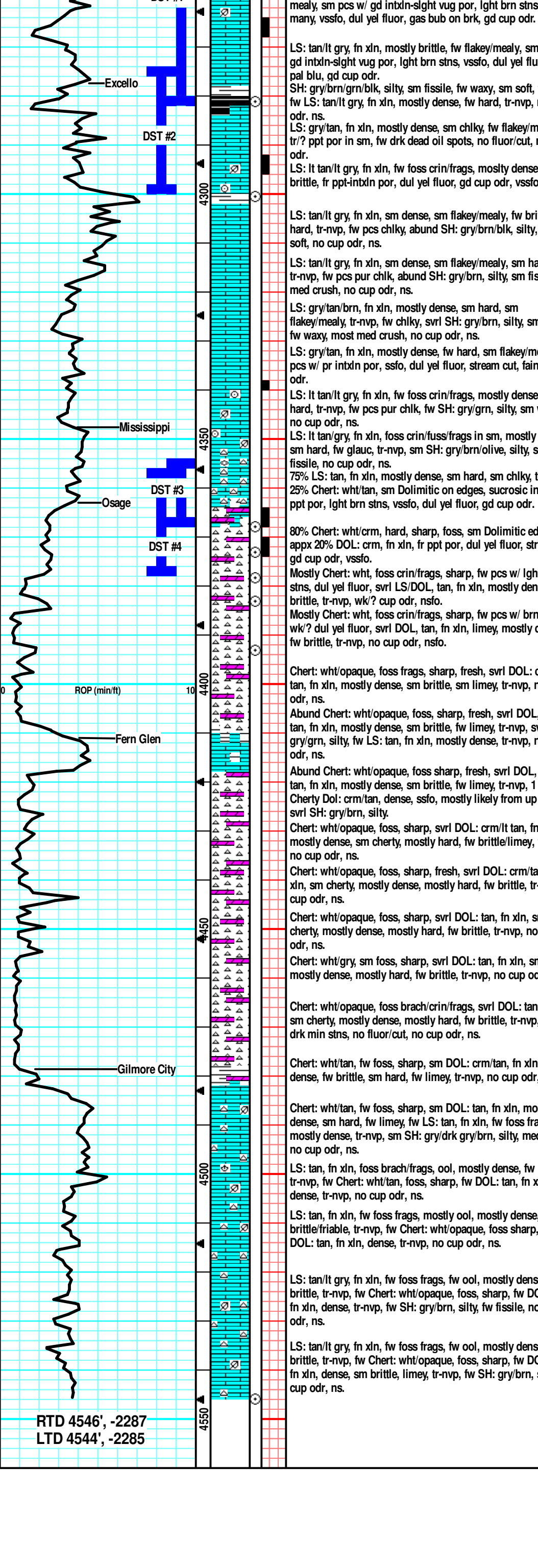
Plant	Glauc	Stringer
Strom	Gyp	Anhy
Fuss	Hymin	Arg
Oomold	Kaol	Bent
MINERAL	Marl	Coal
Anhy	Minxl	Dol
Argbrn	Nodule	Gyp
Bent	Phos	Ls
Bit	Salt	Mrst
Brecfrag	Sandy	Siltstrg
Calc	Silt	Ssstrg
Carb	Sulphur	Carbrn
Chtd	Tuff	Clystn
Chitk	Chlorite	Dol
Dol	Sand	Gryslt
Feldspar	Sity	Lms
Ferrpel		Sandylms
Ferr		Sh
		Siltstn

FOSSIL
 Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram Gastro Oolite Ostra Pelec Pellet Pisolite

Stringer
 Anhy Arg Bent Coal Dol Gyp Ls Mrst Siltstrg Ssstrg Carbrn Clystn Dol Gryslt Lms Sandylms Sh Siltstn



DST #1
 4240'-4281' 10-15-2012
 1st Open = BOB in 1.5" (BOB BB)
 2nd Open = BOB in 15sec (BOB BB)
 IFP = 40-133# ISIP = 1223# FFP = 169-227# FSIP = 1222#
 HYDP = 2064-2062#
 595' Total Fluid 3615' GIP
 280' GO (80% Oil), 315' GSMCO (18% Gas, 74% Oil)



RTD 4546' -2287
LTD 4544' -2285

mealy, sm pcs w/ gd intbn-slight vug por, light brn stns in many, vssto, dul yel fluor, gas bub on brk, gd cup odr.

LS: tan/lt gry, fn xln, sm dense, sm flakey/mealy, fw brittle, sm hard, tr-nvp, fw pcs chiky, abund SH: gry/bm/bk, silty, sm soft, no cup odr, ns.

SH: gry/bm/gm/bk, silty, sm fissile, fw waxy, sm soft, fw carb, fw LS: tan/lt gry, fn xln, mostly dense, fw hard, tr-nvp, no cup odr, ns.

LS: gry/tan, fn xln, fose crin/frags, sm chiky, fw flakey/mealy, tr/? ppt por in sm, fw drk dead oil spots, no fluor/cut, no cup odr.

LS: lt tan/lt gry, fn xln, fw foss crin/frags, mostly dense, sm brittle, fr ppt-intbn por, dul yel fluor, gd cup odr, vssto.

LS: tan/lt gry, fn xln, sm dense, sm flakey/mealy, fw brittle, sm hard, tr-nvp, fw pcs chiky, abund SH: gry/bm/bk, silty, sm soft, no cup odr, ns.

LS: tan, fn xln, mostly dense, sm hard, sm flakey/mealy, sm hard, tr-nvp, fw pcs pur chik, abund SH: gry/bm, silty, sm fissile, med crush, no cup odr, ns.

LS: gry/tan/brn, fn xln, mostly dense, sm hard, sm flakey/mealy, fw waxy, most med crush, no cup odr, ns.

LS: gry/tan, fn xln, mostly dense, fw hard, sm flakey/mealy, 1-2 pcs w/ pr intbn por, ssfo, dul yel fluor, stream cut, faint? cup odr.

LS: lt tan/lt gry, fn xln, fw foss crin/frags, mostly dense, sm hard, tr-nvp, fw pcs pur chik, fw SH: gry/grn, silty, sm waxy, no cup odr, ns.

LS: lt tan/gry, fn xln, sm crin/fuse/frags in sm, mostly dense, sm hard, fw glauc, tr-nvp, sm SH: gry/brn/olive, silty, sm fissile, no cup odr, ns.

75% LS: tan, fn xln, mostly dense, sm hard, sm chiky, tr-nvp, 25% Chert: wht/tan, sm Dolimilic on edges, sucrosic in DOL, fr ppt por, light brn stns, vssto, dul yel fluor, gd cup odr.

80% Chert: wht/crm, hard, sharp, foss, sm Dolimilic edges, appx 20% DOL: crm, fn xln, fr ppt por, dul yel fluor, strm cut, gd cup odr, vssto.

Mostly Chert: wht, foss crin/frags, sharp, fw pcs w/ light brn stns, dul yel fluor, svrl LS/DOL, tan, fn xln, mostly dense, sm brittle, tr-nvp, wk/? cup odr, nsfo.

Mostly Chert: wht, foss crin/frags, sharp, fw pcs w/ brn stns, wk/? dul yel fluor, svrl DOL, tan, fn xln, limey, mostly dense, fw brittle, tr-nvp, no cup odr, nsfo.

Chert: wht/opaque, foss frags, sharp, fresh, svrl DOL: crm/lt tan, fn xln, mostly dense, sm brittle, sm limey, tr-nvp, no cup odr, ns.

Abund Chert: wht/opaque, foss, sharp, fresh, svrl DOL: crm/lt tan, fn xln, mostly dense, sm brittle, fw limey, tr-nvp, svrl SH: gry/grn, silty, fw LS: tan, fn xln, mostly dense, tr-nvp, no cup odr, ns.

Abund Chert: wht/opaque, foss sharp, fresh, svrl DOL: crm/lt tan, fn xln, mostly dense, sm brittle, fw limey, tr-nvp, 1 pcs Cherty Dol: crm/tan, dense, sslo, mostly likely from up hole, svrl SH: gry/brn, silty.

Chert: wht/opaque, foss, sharp, svrl DOL: crm/lt tan, fn xln, mostly dense, sm cherty, mostly hard, fw brittle/limey, tr-nvp, no cup odr, ns.

Chert: wht/opaque, foss, sharp, fresh, svrl DOL: crm/tan, fn xln, sm cherty, mostly dense, mostly hard, fw brittle, tr-nvp, no cup odr, ns.

Chert: wht/opaque, foss, sharp, svrl DOL: tan, fn xln, sm cherty, mostly dense, mostly hard, fw brittle, tr-nvp, no cup odr, ns.

Chert: wht/opaque, sm foss, sharp, svrl DOL: tan, fn xln, sm cherty, mostly dense, mostly hard, fw brittle, tr-nvp, no cup odr, ns.

Chert: wht/opaque, foss brach/crin/frags, svrl DOL: tan, fn xln, sm cherty, mostly dense, mostly hard, fw brittle, tr-nvp, fw pcs drk min stns, no fluor/cut, no cup odr, ns.

Chert: wht/tan, fw foss, sharp, sm DOL: crm/tan, fn xln, mostly dense, fw brittle, sm hard, fw limey, tr-nvp, no cup odr, ns.

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

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

LS: tan, fn xln, fw foss frags, mostly ool, mostly dense, sm brittle/friable, tr-nvp, fw Chert: wht/opaque, foss sharp, fw DOL: tan, fn xln, dense, tr-nvp, no cup odr, ns.

LS: tan/lt gry, fn xln, fw foss frags, fw ool, mostly dense, sm brittle, tr-nvp, fw Chert: wht/opaque, foss, sharp, fw DOL: tan, fn xln, dense, tr-nvp, fw SH: gry/brn, silty, fw fissile, no cup odr, ns.

LS: tan/lt gry, fn xln, fw foss frags, fw ool, mostly dense, fw brittle, tr-nvp, fw Chert: wht/opaque, foss, sharp, fw DOL: tan, fn xln, dense, sm brittle, limey, tr-nvp, fw SH: gry/brn, silty, no cup odr, ns.

9.3	51	9.5	5,300
Fill	LCM		
10.4	Tr		
Excello @ 4278'			
(-2019)			
CFS @ 4281'			
30'/60'			
Survey @ 4281' = 1 Degree			
CFS @ 4300'			
30'/60'			
DST #2 "Cherokee" 10-15-2012			
4275-4300'	30-45-45-60		
1st Open = WK Surf Blw @ 10-34"	(No BB)		
2nd Open = WK Surf Blw (No BB)			
IFP = 8-5#	ISP = 10-11#		
	FSP = 20#		
HYDP = 253-251#			
20' SOCM (18% Oil)			
Mud Check			
Vis 9#			
Wt 9.3			
Mississippi @ 4348'			
(-2089)			
CFS @ 4366'			
30'/60'			
CFS @ 4373'			
30'/60'			
CFS @ 4378'			
30'/60'			
CFS @ 4383'			
30'/60'			
CFS @ 4393'			
30'/60'			
Mud-Co Check #9 @ 4366'			
wt	vis	pH	chl
9.5	52	9.0	5,300
Fill	LCM		
12.0	Tr		
DST #3 "Mississippi" 10-15-2012			
4355-4366'	30-30-30-30		
1st Open = Weak Surface Blow (No Blow Back)			
2nd Open = Weak Surface Blow (No Blow Back)			
IFP = 4-5#	ISP = 13#		
FFP = 4-6#	FSP = 13#		
HYDP = 2042-2014#			
07 Tool had some Oil Spec Mud			
DST #4 "Mississippi" 10-17-2012			
4357-4378'	25-20-20-20		
1st Open = Weak Surface Blow, Died in 15"			
(No Blow Back)			
2nd Open = No Blow (No Blow Back)			
IFP = 4-5#	ISP = 26#		
FFP = 6-6#	FSP = 301#		
HYDP = 2034-2029#			
5' Mud			
Mud-Co Check #10 @ 4449'			
10/17/12	2:45pm		
wt	vis	pH	chl
9.1	60	8.5	6,700
Fill	LCM		
9.6	Tr		
CFS @ 4546'			
30'/60'			
Survey @ 4546' = 1.14 Degree			

ALLIED OIL & GAS SERVICES, LLC 053570

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Great Bend, KS

DATE <i>10-8-12</i>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START <i>11:00 am</i>	JOB FINISH <i>12:00 AM</i>
LEASE <i>Hoess</i>	WELL # <i>1-27</i>	LOCATION <i>Ness City 5 2 1/2 E</i>			COUNTY <i>Ness</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>SINTO</i>			

CONTRACTOR *Wolfe Drilling* OWNER _____

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. _____

CASING SIZE *6 5/8* DEPTH *334.00*

TUBING SIZE _____ DEPTH _____

DRILL PIPE *4 1/2* DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. *15 lb*

PERFS. _____

DISPLACEMENT *20; 32 bbls*

CEMENT AMOUNT ORDERED *200 gals Class A 3/16 24 gal*

COMMON	200	@ 17.90	3580. ⁰⁰
POZMIX		@	
GEL	4	@ 23.40	93.60
CHLORIDE	7	@ 64.00	448. ⁰⁰
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	216.66	@ 2.48	537. ⁸¹
MILEAGE	9.88 x 88	2.60	205. ⁵⁰
			TOTAL <i>79.03</i> 4.864. ⁹¹

EQUIPMENT

PUMP TRUCK CEMENTER *Dustin Chambers*

224 HELPER *Dan Essie*

BULK TRUCK

544/198 DRIVER *Paul Monahan*

BULK TRUCK # _____ DRIVER _____

REMARKS:

Break off casing with RTG with pump 5 bbls fresh water

and 200 gals class A 3/16 24 gal

Displace 20; 32-bbls fresh water

shut in

Cemented off well

plug bottom 12:00 AM

Paul Monahan

CHARGE TO: *Grand Mesa*

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	334		
PUMP TRUCK CHARGE		1512. ³⁵	
EXTRA FOOTAGE		@	
MILEAGE	Hum 8	@ 7.70	61.60
MANIFOLD		@	
	Hum 8	@ 4.40	35. ³⁰
		@	

PLUG & FLOAT EQUIPMENT

_____	@	
_____	@	
_____	@	
_____	@	
_____	@	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME *Frank Symank*

SIGNATURE *Frank Symank*

Thank You's

TOTAL _____

SALES TAX (If Any) *259.66*

TOTAL CHARGES *6.473.46*

DISCOUNT *25% 1.618.36* IF PAID IN 30 DAYS

4.855.10

6816-9

JOB LOG

SWIFT Services, Inc.

DATE: 8 OCT 12 PAGE NO. 1

CUSTOMER: Grand Mesa WELL NO: 1-27 LEASE: Hoss JOB TYPE: Cement 5 1/2" Longstring TICKET NO: 23369

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								TD-4546 TP-4544' Set @ 4542' 5 1/2" 15.5"
								Shoe jt #1-14.00' PL on top of #71 1550'
								Centralizer - #1 #3 #5 #7 #9 #11 #13 #70
								Basket - #2 #71
								175 sks EA-2 #1/4 floccle
	1345							on location
	1440							start pipe - 5 1/2" casing in well
	1650							Drop ball circulate - Rotate -
	1712		7-5					Plug RH - MH (30-20)
	1726	6 3/4	12		✓		300	Pump 500 gal mud flush
		6 3/4	20		✓		300	Pump 20 bbl KCL Flush
	1723	4 1/2	30		✓		200	mix 125 sks EA-2 #1/4 #6
								Drop Latch Down Plug
								Wash out pump + lines
	1737	6 3/4	0				0	Start Displacement
		6 3/4					800	
	1800	6 3/4	107.8				1700	Land Latch Down Plug
								Release PSI Held
								wash up truck
	1835							Job complete
								Thank you
								Dave Blaine TJ Doing

JOB LOG

SWIFT Services, Inc.

DATE 30 OCT 12 PAGE NO.

CUSTOMER GRAND MESA WELL NO. LEASE HOSS 1-27 JOB TYPE CEMENT PORT COLLAR TICKET NO. 23494

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1230							DN LOCATION
								PORT COLLAR @ 1550'
	1245				✓		1000	TEST - HELD
	1250	3			✓		300	OPEN PORT COLLAR - TAKE INS. RATE
	1253	4 1/2	83		✓	450	450	MIX 150 SX SMD
		4 1/2	8		✓	250	250	DISPLACE CEMENT
					✓			CIRCULATE 20 SX TO PIT
	1319				✓	1000		CLOSE PORT COLLAR - TEST - HELD Run 4 JTS.
	1330	4 1/2	21		✓		500	REVERSE CEMENT OUT OF TUBING
	1340							WASH TRUCK
	1400							JOB COMPLETE.
								THANKS #115
								JASON JEFF DOWG

Pro-Stim Chemicals, LLC

P.O. Box 25
Cheyenne Wells, CO 80810

Invoice

NOV 19 2012

Date	Invoice #
11/14/2012	72081

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

Ship To

Requested By	Terms	Ship	Lease
	Net 30	11/1/2012	HOSS 1-27

Quantity	Item Code	Description	Price Each	Amount
750	RWR-1 15%	GALLONS	[REDACTED]	[REDACTED]
30	KCL BIOCIDE - 2%	BRLS		
15	BALLS - BIO-DEGRADEA...	EACH		
1	BALL LAUNCHER			
1	DUMP JOB			
3	TRUCK TIME	HOURS		
		Sales Tax - NESS CO.		

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