



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1133058
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 |
|-----------------------------------|-----------------|---|

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: _____



1133058

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: 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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

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

| | |
|-----------|------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Grand Mesa Operating Company |
| Well Name | MAP 1-35 |
| Doc ID | 1133058 |

All Electric Logs Run

| |
|--------------------------------------|
| |
| Comp. Sonic w/Integrated Transit Tim |
| AI Shallow Focused Elect Log |
| Micro Log |
| Dual Rec. Cement Bond Log |
| CPDCN Micro Log |

| | |
|-----------|------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Grand Mesa Operating Company |
| Well Name | MAP 1-35 |
| Doc ID | 1133058 |

Tops

| Name | Top | Datum |
|-----------------|------|-------|
| Stone Corral | 2285 | +526 |
| Bs/Stone Corral | 2308 | +503 |
| Heebner | 3832 | -1021 |
| Lansing | 3878 | -1067 |
| Muncie Creek | 4029 | -1218 |
| Stark | 4114 | -1303 |
| Maraton | 4212 | -1401 |
| Excello | 4362 | -1551 |
| Mississippian | 4470 | -1659 |
| LTD | 4570 | |



CONSOLIDATED
Oil Well Services, LLC

256174

TICKET NUMBER 39258
LOCATION Oakley, KS
FOREMAN Kelly Grebe

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 | |
|----------------------------|------------|--------------------|---------|----------|--------------|--------------------------|--------------|
| 1-23-13 | 3372 | Map #1-35 | 35 | 135 | 310 | Gove | |
| CUSTOMER <u>Grand Mesa</u> | | CITY <u>Oakley</u> | | TRUCK # | DRIVER | TRUCK # | DRIVER |
| MAILING ADDRESS | | STATE <u>KS</u> | | ZIP CODE | <u>6463</u> | <u>Jerry</u> | <u>466</u> |
| CITY | | STATE | | ZIP CODE | <u>11516</u> | <u>Damon M Ridealong</u> | <u>11516</u> |
| CITY | | STATE | | ZIP CODE | <u>11516</u> | <u>Trevise</u> | <u>11516</u> |

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 221 CASING SIZE & WEIGHT 8 5/8 24#
CASING DEPTH 221 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 148 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30'
DISPLACEMENT 12 3/4 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: safety meeting, rigged up on Muffin #24 hooked up to circulate, mixed 175 SKS com 3% acc 20 gal displaced with 12 3/4 bbl water, shut in, washed out pump lines, rigged down.

CEMENT did circulate

APPROX 9bbl to pit.

Kelly Grebe

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|-------------------|------------------------------------|------------|-------|
| 54015 | 1 | PUMP CHARGE | | |
| 5406 | 20 | MILEAGE | | |
| 11045 | 175 SKS | Class A Cement | | |
| 1102 | 493# | Calcium chloride | | |
| 11183 | 329# | Bentonite | | |
| 5407 | 8.22 | TON Mileage delivery | | |
| 111 | 100# | SALT | | NC |

completed

Last 100# dis

10:30 PM AUTHORIZATION [Signature]

TITLE Pusher Rig #24

SALES TAX ESTIMATED TOTAL DATE 1-23-13

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 2-2-73 PAGE NO.

CUSTOMER Grand Mesa WELL NO. 1-35 LEASE MAP JOB TYPE 5 1/2 Long String TICKET NO. 23893

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (2000) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|---------------------|-------|---|----------------|--------|---|
| | | | | T | C | TUBING | CASING | |
| | 1430 | | | | | | | on location 5 1/2 x 15.5# TO 4570 Sg. 10 TP 4565 Inset 4555 PC top 54 2312' centralizers 1, 3, 5, 7, 9, 11, 13, 15, 53 Baskets 2, 54 |
| | 1620 | | | | | | | Start Pipe |
| | 1820 | | | | | | | Break circulation Rotate |
| | 1850 | | 7/4 | | | | | Plug MH 30 MH 20 |
| | 1900 | 5 | 12 | | ✓ | | 300 | Start Mud Flush |
| | | 5 | 20 | | ✓ | | 300 | start KCL Flush |
| | | 5 | 30 | | ✓ | | 200 | Start Cement 125 SKS |
| | 1920 | | | | ✓ | | | Drop Plug |
| | 1920 | | | | | | | wash out Pump + Lines |
| | 1921 | 6 | | | ✓ | | | Displace |
| | 1945 | 6 | 108.4 | | ✓ | | 1500 | Land Plug |
| | 1946 | | | | | | | Release Dry |
| | | | | | | | | wash up Mack up |
| | 2030 | | | | | | | Job complete Thank You Josh, Brian, Bob |

JOB LOG

SWIFT Services, Inc.

DATE 3-1-13 PAGE NO.

CUSTOMER Grand Mesa WELL NO. 1-35 LEASE MAP JOB TYPE Cement Port Collar TICKET NO. 23935

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
| | | | | T | C | TUBING | CASING | |
| | 0800 | | | | | | | On location |
| | | | | | | | | PC @ 2323 RBP 2608 |
| | 0800 | | | | | | | Start Port Collar open Tool |
| | 0850 | | 58 | ✓ | | 1500 | W | load hole Pressure test |
| | 0935 | | 14 | ✓ | | | | Spot Sand |
| | | | | | | | | locate Port Collar |
| | 1020 | 3 | 35 | ✓ | | 500 | | Open Port Collar Start Mud |
| | 1030 | 4 | 95/gal | ✓ | | 300 | | Start Cement Brms weight up 200 SXS SMD |
| | | | 102 | | | | | Start Displacement |
| | 1115 | | | | | | 1000 | Close Port Collar |
| | | | 30 | ✓ | | | | Run 4 joints Reverse out Clean |
| | | | | | | | | Run in to wash sand off plug |
| | 1135 | 3 | 80 | ✓ | | 200 | | wash sand off plug |
| | | | | | | | | Swab Down |
| | | | | | | | | Pull tools |
| | | | | | | | | wash up Rack up |
| | | | | | | | | Job Complete |
| | | | | | | | | Thank You |
| | | | | | | | | Josh, Brian, Clint |

Pro-Stim Chemicals LLC

Acidizing Report

Date **2-26-13**

| | | | | | |
|------------------------------------|-----------------|---------------------------------------|----|-----------------------------|--|
| Customer Grand Mesa | | Pro-Stim Chemical Yard Dighton | | Pro-Stim Number A-11 | |
| Well Name & Number MAR 1-35 | | Field | | Formation Spot | |
| County Gove | State KS | BHT | YD | Interval 4442-46 | |

| | | | | | | | |
|---|---------|-------------|--------------------|---------------------------|------------------------------|----|------|
| Well Type: <input checked="" type="checkbox"/> Completion <input type="checkbox"/> Recompletion <input type="checkbox"/> Workover <input type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Water <input type="checkbox"/> Disposal <input type="checkbox"/> Perf <input type="checkbox"/> OH <input type="checkbox"/> | | | | | | | |
| Job Pumped Via: <input checked="" 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 4380 | | | | | | | |
| Casing Size: 5 1/2 | GRD | WT | Depth | Tubing Size: 2 7/8 | GRD | WT | Spot |
| Casing Vol. 1.43 | Tbg Vol | 25.4 | Ann Vol | OH Vol | Total Displacement 27 | | |
| Maximum Pressure | Tubing | Casing | Proposed Pump Time | AOL | Leave Loc | | |

Special Instructions: **500 gal 15% RWR-1 with 8 RETAB 2 AR630
30 2% KCL**

Treatment Record

| Time | Type Fluid | Rate BPM | Increment Vol Bbls | Cum Vol Bbls | Pressure | | Observations |
|-------------|-------------|------------|--------------------|--------------|------------|--------|-----------------------|
| | | | | | Tubing | Casing | |
| | | | | | | | Safety Meeting |
| | | | | | | | Prs Test to _____ psi |
| | ACID | 1.0 | | 1.0 | 0 | | spot |
| 0 | " | 2.4 | | 3.5 | 0 | | |
| 4 | " | 2.4 | | 11.4 | 0 | | |
| 4 | " | 2.4 | | 12.0 | 0 | | |
| 9 | " | 0.0 | | 26.8 | 40 | | |
| 11 | " | 0.0 | | 26.9 | 400 | | |
| 17 | " | 0.0 | | 27 | 500 | | |
| 28 | " | 0.0 | | 27.05 | 600 | | |
| 50 | " | 0.0 | | 27.37 | 600 | | |
| 83 | " | 1.3 | | 28.6 | 450 | | |
| 87 | " | 1.6 | | 30.6 | 510 | | |
| 89 | " | 1.8 | | 32 | 470 | | |
| 90.5 | " | 1.0 | | 33 | 400 | | |
| 94.5 | " | 1.0 | | 37 | 260 | | |
| 96.5 | " | 1.0 | | 39 | 240 | | |

Treatment Synopsis

| | | | | | | | |
|-------------------------|------------------------|----------------|------|-----------------|----------------------------|----------------|-------|
| Avg Inj Rate | Fluid BPM | Total Injected | | | H2O 27 | Acid 12 | Oil |
| | Max | Final | Avg. | ISIP 200 | 5'SI 2 min | 10'SI | 15'SI |
| Customer Representative | <i>John A. Johnson</i> | | | | Pro-Stim Supervisor: _____ | | |



Diamond Testing General Report

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

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

General Information

| | | | |
|----------------------|------------------------------|-------------------------|----------------------------|
| Company Name | Grand Mesa Operating Company | Well Name | MAP #1-35 |
| Well Operator | Grand Mesa Operating Company | Unique Well ID | DST #1 "E&F" 3938'-3966' |
| Contact | Steve Stribling | Surface Location | Sec 35-13s-31w-Gove Co.-KS |
| Site Contact | Kent Matson | Test Unit | #5 |
| Field | Wildcat | Pool | Wildcat |
| Well Type | Vertical | Job Number | F086 |
| Prepared By | Jake Fahrenbruch | Qualified By | Kent Matson |

Test Information

| | | | |
|------------------------|--------------------------|------------------------|--------------|
| Test Type | Conventional Bottom-Hole | Test Purpose | Initial Test |
| Formation | "E&F" 3938'-3966' | Gauge Name | 0062 |
| Start Test Date | 2013/01/27 | Start Test Time | 19:56:00 |
| Final Test Date | 2013/01/28 | Final Test Time | 04:11:00 |

Test Results

Recovered:

| | | |
|------|-----------------------------|------------------|
| 3' | Free Oil | 100% oil |
| 60' | SOCM | 3% oil, 97% mud |
| ---- | +/- 30' GIP | |
| ---- | Total Recovered Fluid: 63' | |
| ---- | Tool Sample: OCM | 20% oil, 80% mud |
| ---- | Bottom-Hole Temp: 116 Deg F | |

Pressures:

| | |
|--------------|-------|
| IHP: | 1890 |
| IFP: | 9-23 |
| ISIP: | 1107 |
| FFP: | 25-41 |
| FSIP: | 1141 |
| FHP: | 1884 |



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.

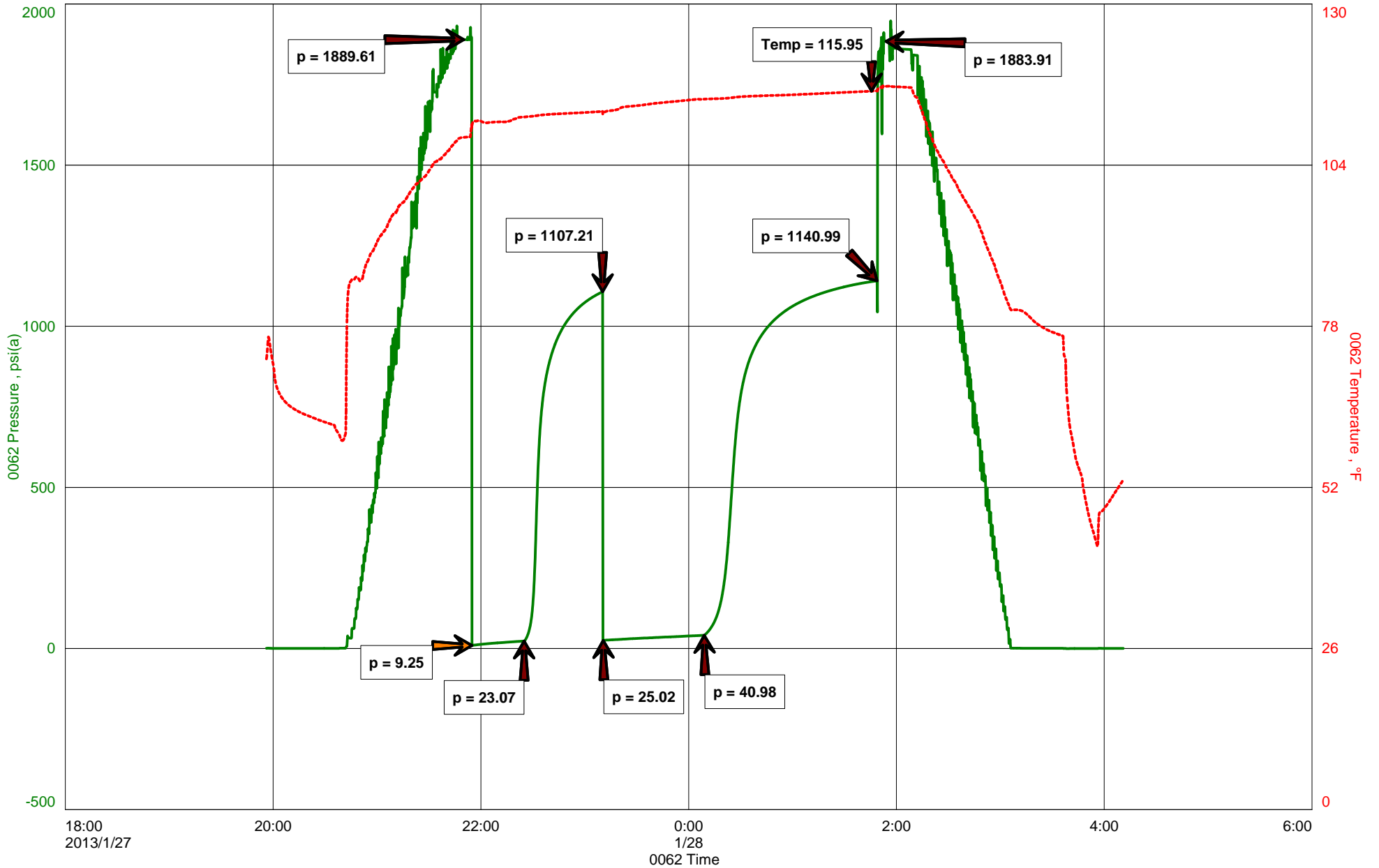
Blow: 1st Open: _____
2nd Open: _____

| | |
|------------------------------|--|
| 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.

MAP #1-35





Diamond Testing General Report

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

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

General Information

Company Name Grand Mesa Operating Co
Well Operator Grand Mesa Operating Co
Contact Steve Stribling
Site Contact Kent Matson
Field Wildcat
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name MAP #1-35
Unique Well ID DST #2 "H&I" 4022'-4090'
Surface Location Sec 35-13s-31w-Gove Co.-KS
Test Unit #5
Pool Wildcat
Job Number F087
Qualified By Kent Matson

Test Information

Test Type Conventional Bottom-Hole
Formation "H&I" 4022'-4090'
Start Test Date 2013/01/28
Final Test Date 2013/01/29

Test Purpose Initial Test
Gauge Name 0062
Start Test Time 20:34:00
Final Test Time 04:45:00

Test Results

Recovered: 70' OSM
Tool Sample: SOCM 5% oil, 95% mud
Bottom Hole Temp: 116 Deg F

Pressures:
IHP: 1945
IFP: 15-31
ISIP: 1016
FFP: 35-51
FSIP: 1041
FHP: 1945



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.

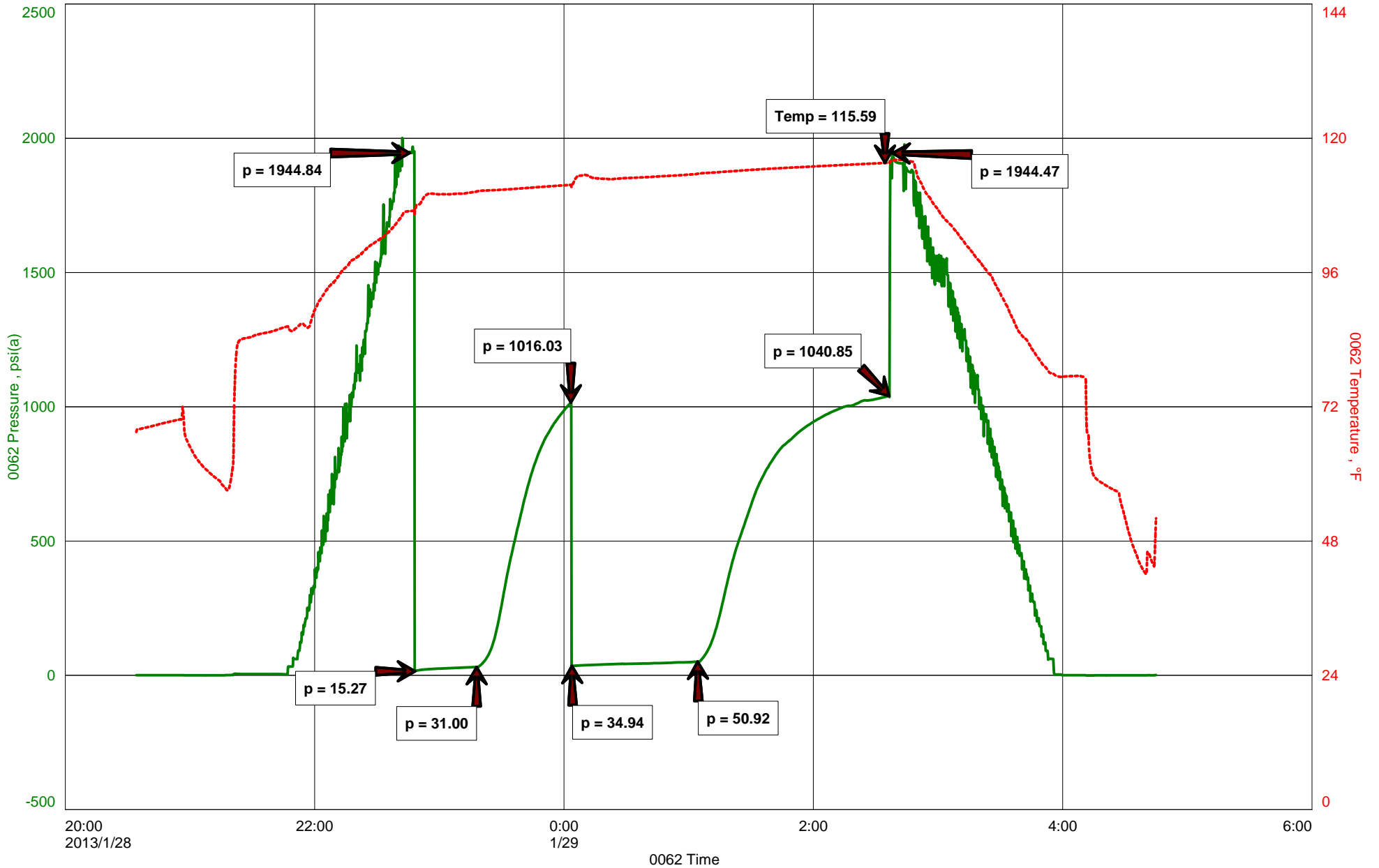
Blow: 1st Open: _____
2nd Open: _____

| | |
|------------------------------|---------------|
| 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.

MAP #1-35





Diamond Testing General Report

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

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

General Information

Company Name Grand Mesa Operating Co
Well Operator Grand Mesa Operating Co
Contact Steve Stribling
Site Contact Kent Matson
Field Wildcat
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name MAP #1-35
Unique Well ID DST #3 "K" 4108'-4130'
Surface Location Sec 35-13s-31w-Gove Co.-KS
Test Unit #5
Pool Wildcat
Job Number F088
Qualified By Kent Matson

Test Information

Test Type Conventional Bottom Hole
Formation "K" 4108'-4130'
Start Test Date 2013/01/29
Final Test Date 2013/01/29

Test Purpose Initial Test
Gauge Name 0062
Start Test Time 15:46:00
Final Test Time 22:36:00

Test Results

Recovered: 3' Drilling Mud 100% mud
Tool Sample: Drilling Mud, 100% mud
Bottom Hole Temp: 111 Deg F

Pressures: IHP: 1975
IFP: 9-11
ISIP: 721
FFP: 11-11
FSIP: 470
FHP: 1973



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.

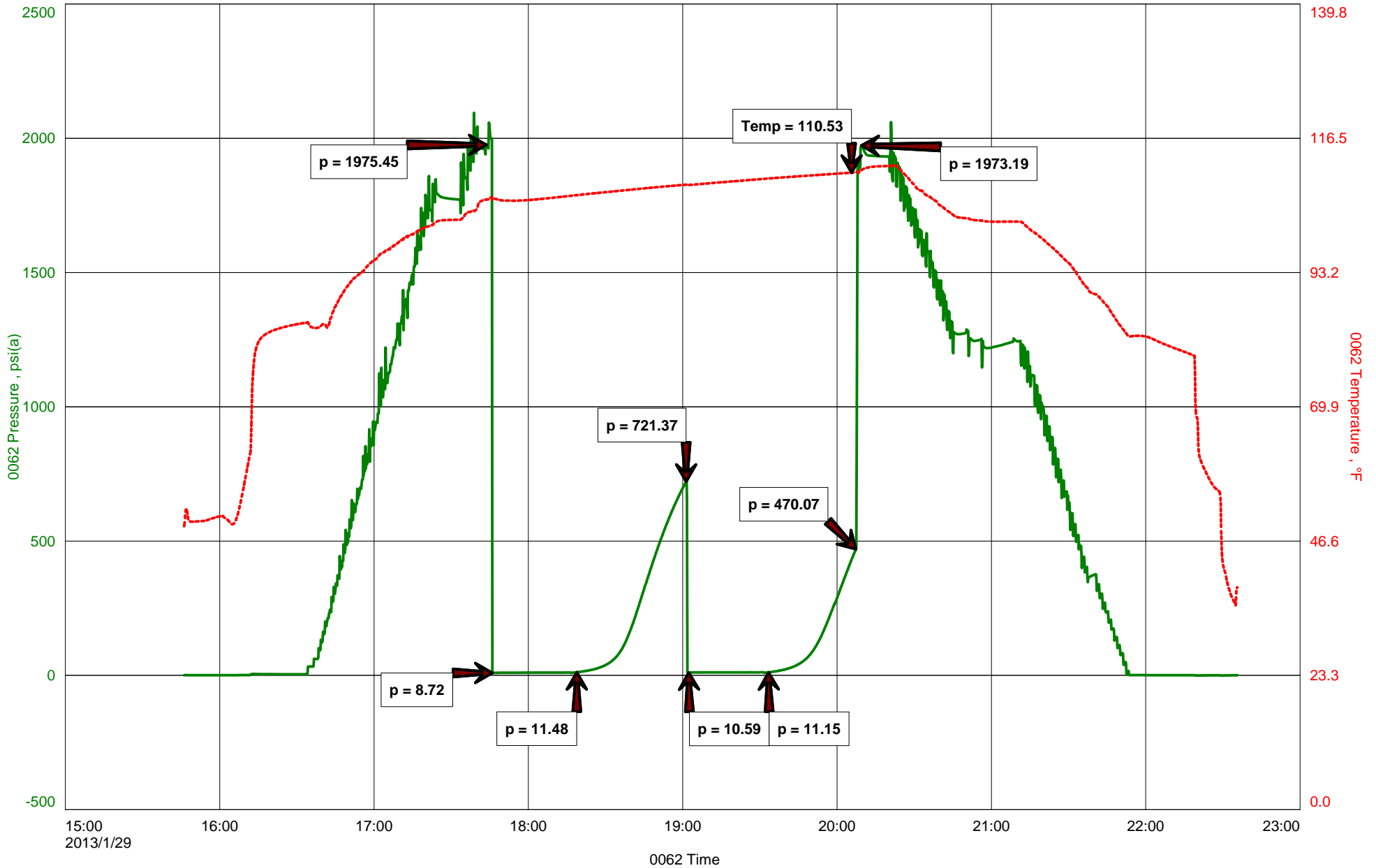
Blow: 1st Open: _____
2nd Open: _____

| | |
|------------------------------|--|
| 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.

MAP #1-35





Diamond Testing General Report

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

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

General Information

Company Name Grand Mesa Operating Company
Well Operator Grand Mesa Operating Company
Contact Steve Stribling
Site Contact Kent Matson
Field Wildcat
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name MAP #1-35
Unique Well ID DST #4 "L" 4144'-4180'
Surface Location Sec 35-13s-31w-Gove Co-KS
Test Unit #5
Pool Wildcat
Job Number F089
Qualified By Kent Matson

Test Information

Test Type Conventional Bottom Hole
Formation "L" 4144'-4180
Start Test Date 2013/01/30
Final Test Date 2013/01/30

Test Purpose Initial Test
Gauge Name 0062
Start Test Time 10:20:00
Final Test Time 18:05:00

Test Results

Recovered: 20' Drilling Mud 100% mud
----- Tool Sample: Drilling Mud
----- Bottom Hole Temp: 115 Deg F

Pressures: IHP: 1977
IFP: 10-18
ISIP: 1090
FFP: 18-28
FSIP: 1076
FHP: 1976



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

TIME ON: _____
TIME OFF: _____

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

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

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

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

Blow: 1st Open: _____
2nd Open: _____

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

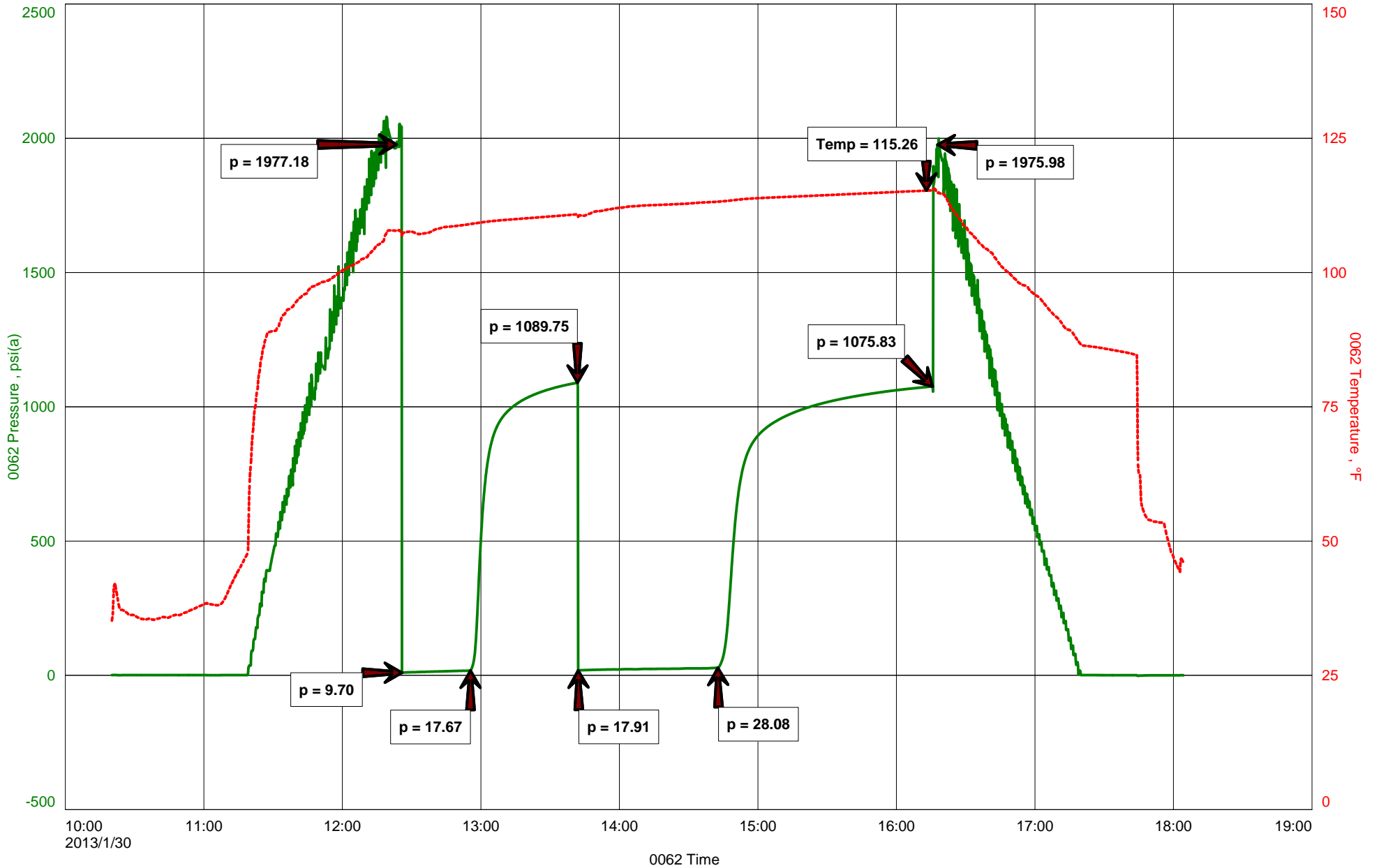
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period.....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

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Grand Mesa Operating Company
DST #4 "L" 4144'-4180'
Start Test Date: 2013/01/30
Final Test Date: 2013/01/30

MAP #1-35
Formation: "L" 4144'-4180
Pool: Wildcat
Job Number: F089

MAP #1-35





Diamond Testing General Report

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

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

General Information

| | | | |
|----------------------|------------------------------|-------------------------|----------------------------|
| Company Name | Grand Mesa Operating Company | Well Name | MAP #1-35 |
| Well Operator | Grand Mesa Operating Company | Unique Well ID | DST #5 Johnson 4390'-4454' |
| Contact | Steve Stribling | Surface Location | Sec 35-13s-31w-Gove Co.-KS |
| Site Contact | Kent Matson | Test Unit | #5 |
| Field | Wildcat | Pool | Wildcat |
| Well Type | Vertical | Job Number | F090 |
| Prepared By | Jake Fahrenbruch | Qualified By | Kent Matson |

Test Information

| | | | |
|------------------------|--------------------------|------------------------|--------------|
| Test Type | Conventional Bottom Hole | Test Purpose | Initial Test |
| Formation | Johnson 4390'-4454' | Gauge Name | 0062 |
| Start Test Date | 2013/01/31 | Start Test Time | 23:41:00 |
| Final Test Date | 2013/02/01 | Final Test Time | 10:18:00 |

Test Results

Recovered:

| | | |
|----------------|------------------------------------|---------------------------|
| 40' = .57 BBL | Gassy Clean Oil | 100% oil |
| 190' = 2.7 BBL | GCMO | 10% gas, 55% oil, 35% mud |
| 120' = .59 BBL | HGCMO | 25% gas, 40% oil, 35% mud |
| ----- | 1200' Gas In Pipe | |
| ----- | Bottom Hole Temp: 125 Deg F | |
| ----- | Tool Sample: MCO, 80% oil, 20% mud | |

Pressures:

| | |
|-------|--------|
| IHP: | 2111 |
| IFP: | 15-84 |
| ISIP: | 1017 |
| FFP: | 87-141 |
| FSIP: | 1012 |
| FHP: | 2090 |



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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.

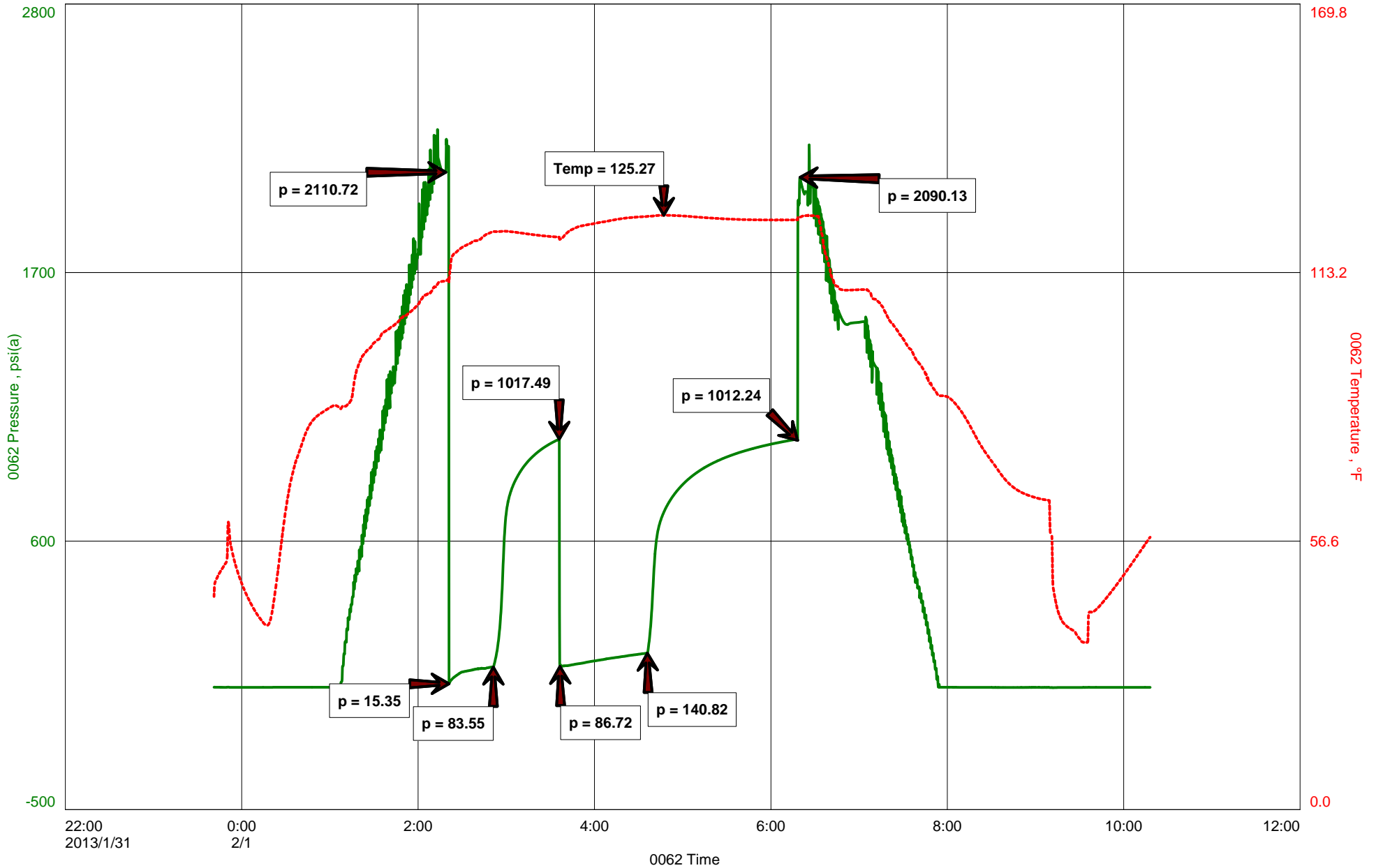
Blow: 1st Open: _____
2nd Open: _____

| | |
|------------------------------|---------------|
| 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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MAP #1-35



GRAND MESA OPERATING COMPANY

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

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

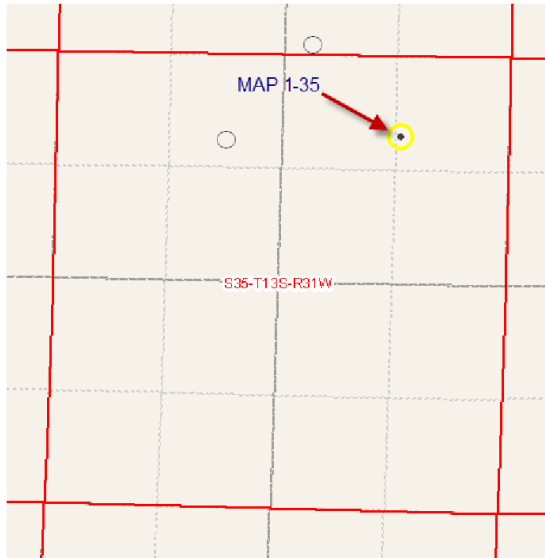
Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: MAP 1-35
 Location: 946' FNL, 1261' FEL, 35-13s-31w, Gove County, Kansas
 License Number: API: 15-063-22081 Region: Gove County
 Spud Date: 01/23/2013 Drilling Completed: 02/01/2013
 Surface Coordinates: Lat: 38.8856016
 Long: -100.7279016
 Bottom Hole Coordinates: Vertical hole
 Ground Elevation (ft): 2806' K.B. Elevation (ft): 2811'
 Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4570'
 Formation: Mississippian at RTD
 Type of Drilling Fluid: Chemical

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

GEOLOGIST

Name: Kent R. Matson
 Company: Matson Geological Services, LLC
 Address: 33300 W. 15th Street S.
 Garden Plain, Kansas 67050
 316-644-1975



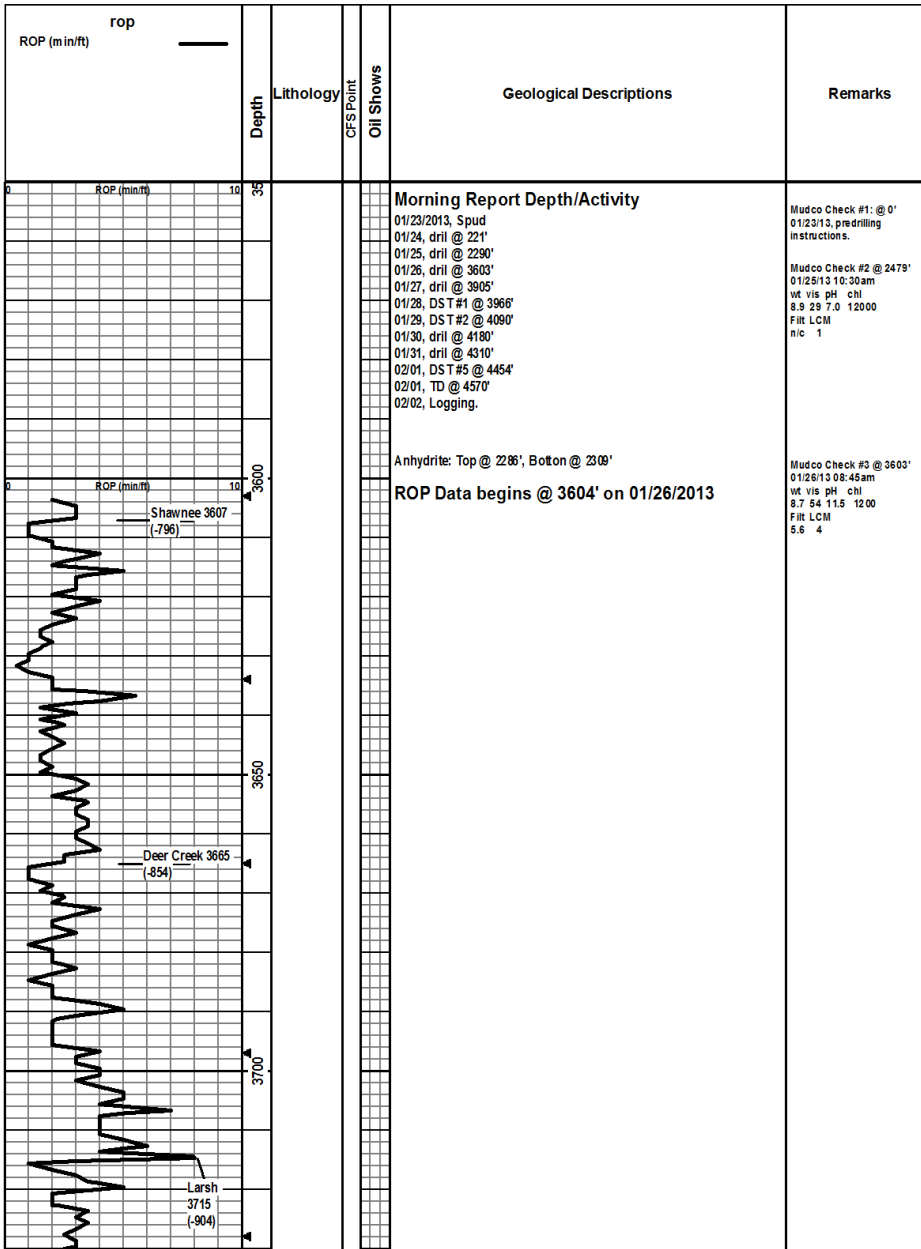
COMMENTS

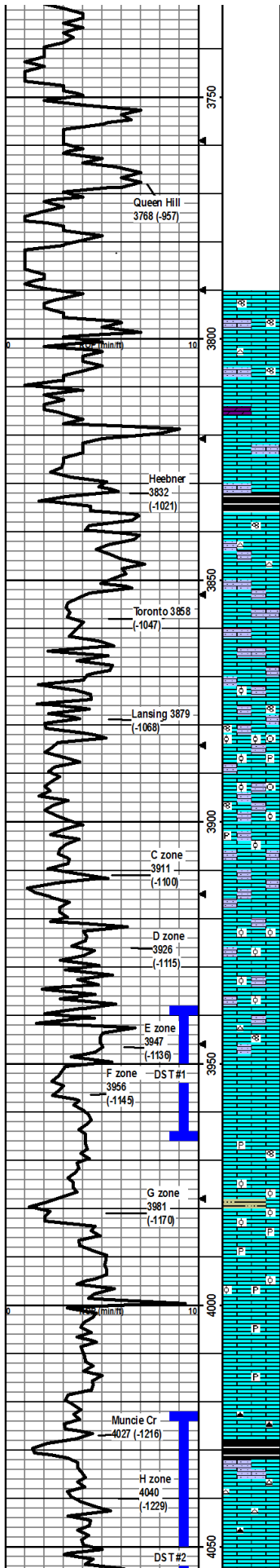
Contractor: Murfin Drilling Company Rig #24
 Pusher: Tony Martin
 Surface Casing: 8 5/8" set at 221' (KB) w/175sx
 Production Casing: Production casing (5.5") was installed to RTD, based on field observations of drill cuttings, DST results and electric log evaluation.
 Mud by: MudCo
 DST's by: Diamond Testing
 Logs by: Weatherford (DIL, CN-CD, ML, Sonic)
 RTD = 4570'
 LTD = 4570'

FORMATION TOPS

| FORMATION | SAMPLE TOPS | | LOG TOPS | |
|------------|-------------|-------|----------|-------|
| | Depth | Datum | Depth | Datum |
| Queen Hill | 3768' | -957 | 3770' | -959 |

| | | | | |
|--------------------|-------|-------|-------|-------|
| Heebner Shale | 3832' | -1021 | 3833' | -1022 |
| Toronto | 3858' | -1047 | 3857' | -1046 |
| Lansing | 3879' | -1068 | 3879' | -1068 |
| Muncie Creek Shale | 4027' | -1216 | 4029' | -1218 |
| Stark Shale | 4111' | -1300 | 4113' | -1302 |
| Hushpuckney Shale | 4148' | -1337 | 4150' | -1339 |
| Marmaton | 4211' | -1400 | 4212' | -1401 |
| Upper Fort Scott | 4315' | -1504 | 4316' | -1505 |
| Little Osage Shale | 4336' | -1525 | 4337' | -1526 |
| Excello Shale | 4362' | -1551 | 4362' | -1551 |
| Johnson Zone | 4440' | -1629 | 4440' | -1629 |
| Morrow | 4455' | -1644 | 4456' | -1645 |
| Mississippian | 4469' | -1658 | 4469' | -1658 |
| RTD | 4570' | -1759 | | |
| LTD | | | 4570' | -1759 |





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

LS: crm/lt gry, micro-med xtal, foss frags/fush, vry sndy, some chalky, ppt in-xtal por w/min frac por, no odor, ns.

LS: crm, micro-med xtal, foss frags/fusin, vry silty/sndy, some wht chalk, min wht chert, min ppt in-xtal/frac por, no odor, ns.

LS: gryish brn w/dk gry inclus, micro-med xtal, foss frags, min frac por, no odor, ns. Some crm Dolo.

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

SH: blk, carb, firm, fissile
LS: crm/lt brn/lt gryish brn, micro-med xtal, foss frags/fusin, some vry silty/sndy, min frac por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags, some vry silty/sndy, wht chert, some ppt in-xtal/frac por, no odor, ns.

LS: crm, micro-med xtal, foss frags, vry sndy, some ppt-fn in-xtal por, no odor, ns.

LS: same as above w/crm-lt gry.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/fusin/ool, silty, ppt-fn in-xtal/oo-castn/frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/grn/fusin/abund ool, pyritic, some soft wht chalk, some vry sndy, some ppt-med in-xtal/oo-castic por, no odor, ns.

LS: same as above w/less ool, bracs present, no pyrite.

LS: crm, micro-med xtal, foss frags w/some abund ool, some wht soft chalk, some vry sndy, some pyritic, ppt-fn in-xtal por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal w/some 2ndry xtal, foss frags/fusin/ool, some sndy, ppt-fn in-xtal por, no odor, ns.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags/ some abund ool pcs, stly sndy, min ppt in-xtal por, no odor, ns.

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

LS: crm/lt brn, micro-fn xtal, foss frags/fusin, some silty, some wht/lt gry chert, 2 pcs in 30 min and 3 pcs in 60 min in smpls w/ppt in-xtal por w/fo, yel flourcut, no crush odor, ssfo.

LS: crm/lt brn, micro-med xtal w/some gd 2ndry xtal, foss frags, 8 pcs w/ppt-coarse in-xtal por w/fo, crush odor, yel flourcut ssfo.

LS: same as above in 30 min and 60 min smpls, however poor smpl quality, 3 pcs in 30 min and 1 pcs in 60 min smpls w/ppt-coarse por w/fo, silt cup odor, yel flourcut, ssfo.

LS: crm/lt gry, micro-fn xtal, min foss frags/lt silty, some pyritic, some soft wht chalky pcs, min frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal, foss frags/some abund ool pcs, some pyritic, some wht chalky pcs, ool pcs have m-c-oo-castic por/min frac por, no odor, ns. Some med-dk gry/grnsh gry, silty, firm SH.

LS: crm/lt gry/lt brn, micro-med xtal w/some 2ndry xtal, min foss frags/some abund dense ool, pyritic, some wht chalky pcs, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt gry, micro-med xtal, min foss frags w/some abund ool pcs, pyritic, some fn-med oo-castic por, no odor, ns.

LS: crm/lt-med gry w/min dk gry, micro-med xtal, min foss frags, some pyritic, no vis por, no odor, ns.

LS: same as above, no odor, ns.

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

SH: blk, carb, firm, fissile.

LS: lt-med brn, micro-med xtal, some grainy/sndy, min foss frags, lt brn/gry chert, min ppt in-xtal/frac por, no odor, ns.

LS: crm/lt brn, micro-med xtal, min foss frags, lt gry/dk brn chert, pyritic, mostly dense w/1 pcs ppt in-xtal por w/fo, no crush odor, yel flourcut but had to crush, ssfo.

Mudco Check #4 @ 3915'
012713 09:00am
wt vis pH chl
9.0 54 11.0 1500
FIT LCM
6.2 4

CFS @ 3915'
30"60"

DST1) 3938-3966

E & F Zones
30456090
1st) Surface blow built to 2", no BB.
2nd) Surface blow built to 1.5", no BB.
IFP 9-23#
ISIP 1107#
FFP 25-41#
FSP 1141#
HP 1890-1884#
Rev'd: 30" GIP, 3" O, 60"
SOCM (3% O).

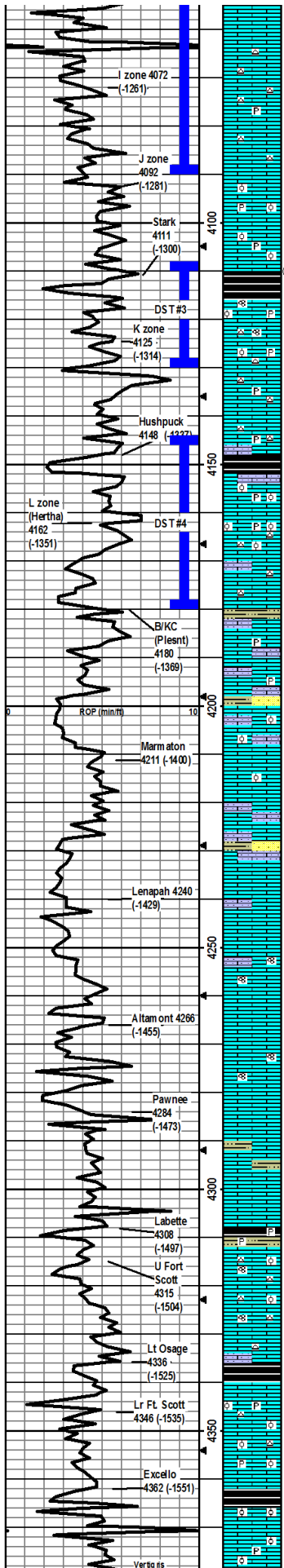
CFS @ 3952'
30"60"

CFS @ 3966'
30"60"

Mudco Check #5 @ 4001'
012813 11:00am
wt vis pH chl
9.0 47 11.5 1400
FIT LCM
5.8 4

DST2) 4022-409

H & I Zones
30456090
1st) Surface blow built to 3", no BB.



no sample correct.

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

LS: crm/lt brn, micro-fn xtal, min foss frags, stly pyritic, wht chert, 9 pcs w/ppt-coarse in-xtal por w/sfo, yel floor/out, slit cup odor, gsfo.

LS: crm/lt brn, micro-fn xtal, min foss frags, wht/lt brn chert, 4 pcs in 30 min and 6 in 60 min smpls w/ppt-fn in-xtal por w/sfo, slit crush odor, yel floor/out, sfo.

LS: crm/lt brn/lt gry, micro-med xtal, foss frags w/ ool pcs, some chalky pcs, pyritic, some ppt-coarse in-xtal/frac por, no odor, ns.

LS: crm/lt gry/lt brn, micro-med xtal some 2ndry xtal, foss frags/some ool pcs, stly pyritic, some stly chalky, m in frac por, no odor, ns.

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

LS: crmit brn/lt med gry, micro-med xtal, foss frags/fusln ool, stly pyritic, 67 pcs w/ppt-coarse in-xtal por w/sfo, strg cup odor, yel floor/out, vgs fo.

LS: crmit-med brn/med-dk gry, micro-med xtal, foss frags/fusln ool, wht-lt gry chert, pyritic, 9 pcs in 30 min and 10 pcs in 60 min smpls w/ppt-coarse in-xtal/ool-coarse por w/sfo, gd odor, yel floor/out, vgs fo.

LS: crm/lt brn/lt gry, micro-fn xtal, m in foss frags, some pyritic, lt gry/brn chert, no vis por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-med xtal w/some gd 2ndry xtal, foss frags, pyritic, lt gry chert, some vry sndy, min ppt in-xtal por, no odor, ns.

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

LS: lt-med brn/lt-med gry, micro-med xtal, foss frags/some ool, pyritic, some vry sndy, some frac por, no odor, ns.

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

LS: crm/lt brn/lt gry, micro-med xtal, foss frags, some sndy, lt-med gry chert, 2 pcs in 30 min 2 pcs in 60 min smpls w/ppt-coarse in-xtal por w/sfo, gd cup odor, yel floor/out, sfo.

LS: lt gry/lt brn, micro-med xtal w/some 2ndry xtal, foss frags, pyritic, some chalky, vry sndy, lt-med gry vry silty soft-firm SH, min frac por, no odor, ns.

LS: lt brn, micro-med xtal, some vry silty/sndy, some pyritic, min foss frags, min in-xtal/frac por, flood of lt-med gry silty SH w/some vff siltsbn, no odor, ns.

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

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

LS: crm/lt brn, micro-med xtal, min foss frags, vry sndy, min in-xtal/frac por, some lt-med gry/gnish gry/red brn silty SH w/lt gry siltsbn, no odor, ns.

LS: lt brn, micro-fn xtal, min foss frags, some stly sndy, min frac por, no odor, ns.

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

LS: crm/lt gry/lt brn w/red brn mottling, micro-med w/some coarse xtal/some 2ndry xtal, some sndy, foss frags/fusln, min in-xtal/frac por, no odor, ns.

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

LS: crm/lt brn, fn-coarse xtal w/2ndry xtal, foss frags/fusln, frac por, no odor, ns.

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

LS: lt brn, micro-fn xtal w/coarse 2ndry xtal, m in foss frags, frac por, no odor, ns. Flood of med-dk gry/red brn silty soft-firm SH.

LS: lt gry/lt brn, micro-med xtal w/some 2ndry xtal, min foss frags, some sndy, m in frac por, no odor, ns.

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

LS: crmit brn, micro-med xtal, foss frags/fusln/some dense ool pcs, abund wht/lt gry/lt brn chert, mostly dense w/1 pce w/ppt-fn in-xtal por w/sfo, slit crush odor, yel floor/out, sfo.

LS: same as above w/1 pce w/ppt-coarse in-xtal/ool por w/sfo, slit crush odor, yel floor/out, sfo.

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

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

LS: crm/lt brn, micro-med xtal w/some 2ndry xtal, min foss frags w/some dense ool pcs, stly pyritic, min wht/lt gry chert, m in ppt in-xtal/frac por, no odor, ns.

LS: same as above w/some wht chalky pcs, no odor in 30 min spl and slit crush odor in 60 min spl, ns.

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

LS: crmit-med brn/lt gry, micro-med xtal w/2ndry xtal, min foss frags w/abund ool pcs, min ppt in-xtal/frac por, no odor, ns.

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

2nd) No blow built to 1/2", no BB.

IFP 15-31#
ISIP 1016#
FFP 35-51#
FSP 1041#
HP 1945-1945#
Recvd: 70' OSM (1% O).

CFS @ 4090'
30°/60'

Mudco Check #6 @ 4105'
01/29/13 09:00am
wt vis pH chl
9.2 54 10.5 1200
FIL LCM
6.0 5

CFS @ 4110'
30°/60'

CFS @ 4130'
30°/60'

DST3) 4108-4130 K-Zone

NOTE: Low levels H2S Gas.
3045/3030
1st) Surface blow built to 1.25", no BB.
2nd) no blow, no BB.
IFP 9-11#
ISIP 721#
FFP 11-11#
FSP 470#
HP 1975-1973#
Recvd: 3' mud.
NOTE: Low levels H2S Gas.

CFS @ 4180'
30°/60'

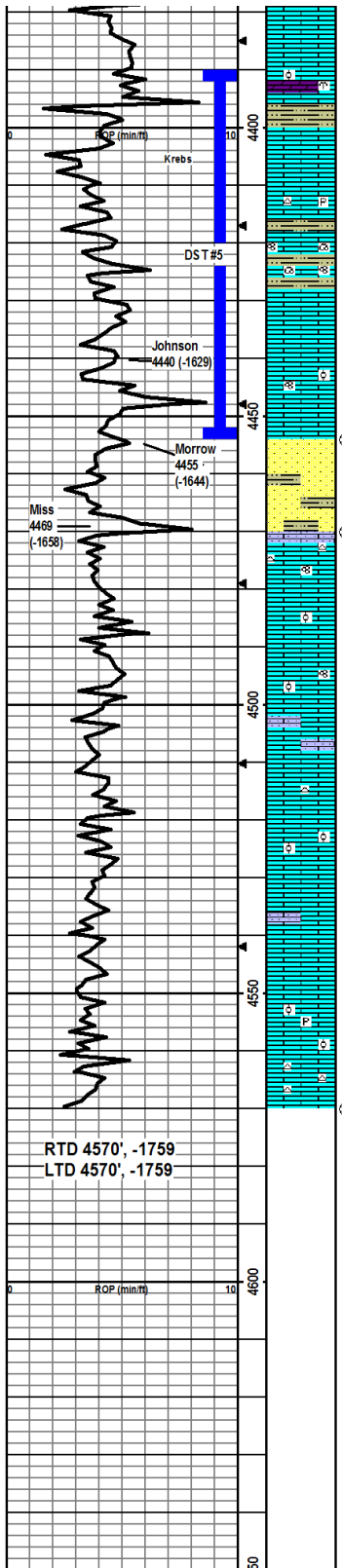
Mudco Check #7 @ 4180'
01/30/13 09:20am
wt vis pH chl
9.3 58 10.0 1200
FIL LCM
7.2 4

DST4) 4144-4180 L-Zone

3045/6090
1st) Surface blow built to 1.75", no BB.
2nd) surface blow built to 1.25", no BB.
IFP 10-18#
ISIP 1090#
FFP 18-28#
FSP 1078#
HP 1977-1976#
Recvd: 20' mud.

Mudco Check #8 @ 4335'
01/31/13 09:10am
wt vis pH chl
9.3 52 10.0 1300
FIL LCM
6.8 6

CFS @ 4360'
30°/60'



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

LS: crm/lt-med brn/lt gry, micro-med xtal, foss frags/brn/zl/some dense ool pcs ool, lt gry Dolo, frac por, no odor, ns.

SH: lt-dk gry/red brn, vry silty, some silt stn, soft-brn sily carb, fls sil.

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

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

SH: lt-dk gry/gmish gry/med-dk brn, vry silty, sily carb, some lt gry silt stn, fim.

LS: crm/lt brn, micro-med xtal, foss frags/gas/fusin, min ppt in-xtal por, no odor, ns.

SH as above.

LS: crm/lt brn, micro-fn xtal, some foss frags, 25 pcs w/ppt-fn w/some med in-xtal por, silt cup odor, yel floricut, gsfo.

LS: crm/lt-med brn, micro-med xtal, foss frags/fusin w/dense ool, 9 pcs in stop smpl w/ppt-crs in-xtal por, crush odor, oil is lt brn, sfo.

LS: same as above w/24 pcs in 30 min and 9 pcs in 60 min smpls w/ppt-med in-xtal por, crush odor, oil is thick blk tar consistency.

SS (quartzarenite): wht, vf-f, sr-wr, hard, friable

SH/SS mix: SH is gmish gry/lt-dk gry/red brn/maroon, vry silty, soft-fim, ns; SS is wht wired brn inclusions/lt gry/gmish gry, pred qtz carb matrix, v-f-f, s-f-w, hard, friable, no odor, ns.

LS: crm/lt brn, micro-med xtal, some foss frags/fusin, some orange brn chert, some vry sndy, min frac por, no odor, ns.

LS: crm/lt brn/lt yel brn, micro-fn xtal, min foss frags/m in dense ool pcs, min frac por, no odor, ns.

LS: crm/lt yel brn, micro-med xtal, foss frags/fusin/m in dense ool pcs, min frac por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, some vry sndy pcs, min frac por w/1 pce ppt-coarse in-xtal por w/sfo (Poss float thru pcs??), no odor, sfo.

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

LS: crm, micro-med xtal, foss frags/some dense ool pcs, grainy, no vis por, no odor, ns.

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

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

LS: crm/lt gry/lt brn w/dk brn inclusions, micro-med xtal, foss frags w/some abund dense ool pcs, some pyritic, m in frac por, no odor, ns.

LS: crm/lt brn, micro-fn xtal, min foss frags, abund wht/opaque chert, min frac por, no odor, ns.

DST5) 4390-4454

Johnson
 3045/60/90
 1st) Strg blow built to BOB in 7 min, 1" BB.
 2nd) Strg blow built to BOB in 5 min, 8" BB.
 IF P 15-84#
 ISPP 1017#
 FFP 87-141#
 F SP 1012#
 HP 2111-2090#
 Recvd: 1200' GIP, 40' GCO,
 190' GCMO (55% oil), 120'
 HGCMO (40% oil).

CFS @ 4454'
 30"/60"

Mudco Check #9 @ 4454'
 02/01/13 10:00am
 wt vis pH chl
 9.3 56 10.5 1400
 Filt LCM
 6.4 6

CFS @ 4470'
 30"/60"

CFS @ 4570', 30"/60".
 Cir 1.5 hrs total to clean hole.

RTD 4570', -1759
 LTD 4570', -1759

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

April 12, 2013

Michael Reilly
Grand Mesa Operating Company
1700 N WATERFRONT PKWY BLDG 600
WICHITA, KS 67206-5514

Re: ACO1
API 15-063-22081-00-00
MAP 1-35
NE/4 Sec.35-13S-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,
Michael Reilly