



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1181419
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: _____

1181419

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: _____ _____
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	DOORNBOS 2-15
Doc ID	1181419

Tops

Name	Top	Datum
Stone Corral	2403	+635
Bs/Stone Corral	2423	+615
Heebner	3949	-911
Muncie Creek	4168	-1130
Stark	4253	-1215
Hushpuckney	4300	-1262
Marmaton	4373	-1335
Little Osage	4503	-1465
Morrow	4662	-1624
Mississippian	4700	-1662
LTD	4836	

ALLIED OIL & GAS SERVICES, LLC 062105

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dakley, KS

DATE <u>12-16-13</u>	SEC. <u>15</u>	TWP. <u>16</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>8:5 am</u>	JOB START <u>10:00 pm</u>	JOB FINISH <u>10:30 pm</u>
LEASE <u>Diamond Cross</u>	WELL # <u>2-15</u>	LOCATION <u> Hwy 95, Pence Rd, 2W</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>N</u>							

CONTRACTOR Duke 4

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 216'

CASING SIZE 8 7/8 DEPTH 216 5/8'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 151

PERFS.

DISPLACEMENT 129 661

OWNER same

CEMENT Class A'

AMOUNT ORDERED 165 sks com 3% CC

2% gal

EQUIPMENT

PUMP TRUCK # 422 CEMENTER Kabane E. Went

BULK TRUCK # 341 HELPER Wayne M. G. Ghy

BULK TRUCK # DRIVER C. J. (TWS)

BULK TRUCK # DRIVER

COMMON 165 sks

POZMIX

GEL 3 3/4 @

CHLORIDE 6 sks

ASC

HANDLING 178 42 42 @

MILEAGE 8.14 hrs X 35 X

REMARKS:

Mix 165 sks cement

Displace with water

Cement did Circulate

Thank you

CHARGE TO: Grand Mesa

STREET

CITY STATE ZIP

TOTAL

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE

EXTRA FOOTAGE @

MILEAGE MEAD 35 @ 7.70

MANIFOLD Head @ 4.40

MSLV 35 @

TOTAL

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 Rick Wheeler

SIGNATURE Rick Wheeler

PLUG & FLOAT EQUIPMENT

Wooden plug @

TOTAL

SALES TAX (If Any)

TOTAL CHARGE

DISCOUNT

PAID IN 30 DAYS

NO COPY



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 Bob Schreiber
Field Wildcat
Well Type Vertical
Prepared By Jake Fahrenbruch

Well Name Doornbos #2-15
Unique Well ID DST #1 Pleasanton 4334'-4355'
Surface Location Sec 15-16s-33w-Scott Co.-KS
Test Unit #5
Pool NA
Job Number F217
Qualified By Bob Schreiber

Test Information

Test Type Bottom-Hole w/J&J&shale packer
Formation Pleasanton 4334'-4355'
Start Test Date 2013/12/15
Final Test Date 2013/12/16

Test Purpose Initial Test
Gauge Name Inside 0062
Start Test Time 22:50:00
Final Test Time 05:13:00

Test Results

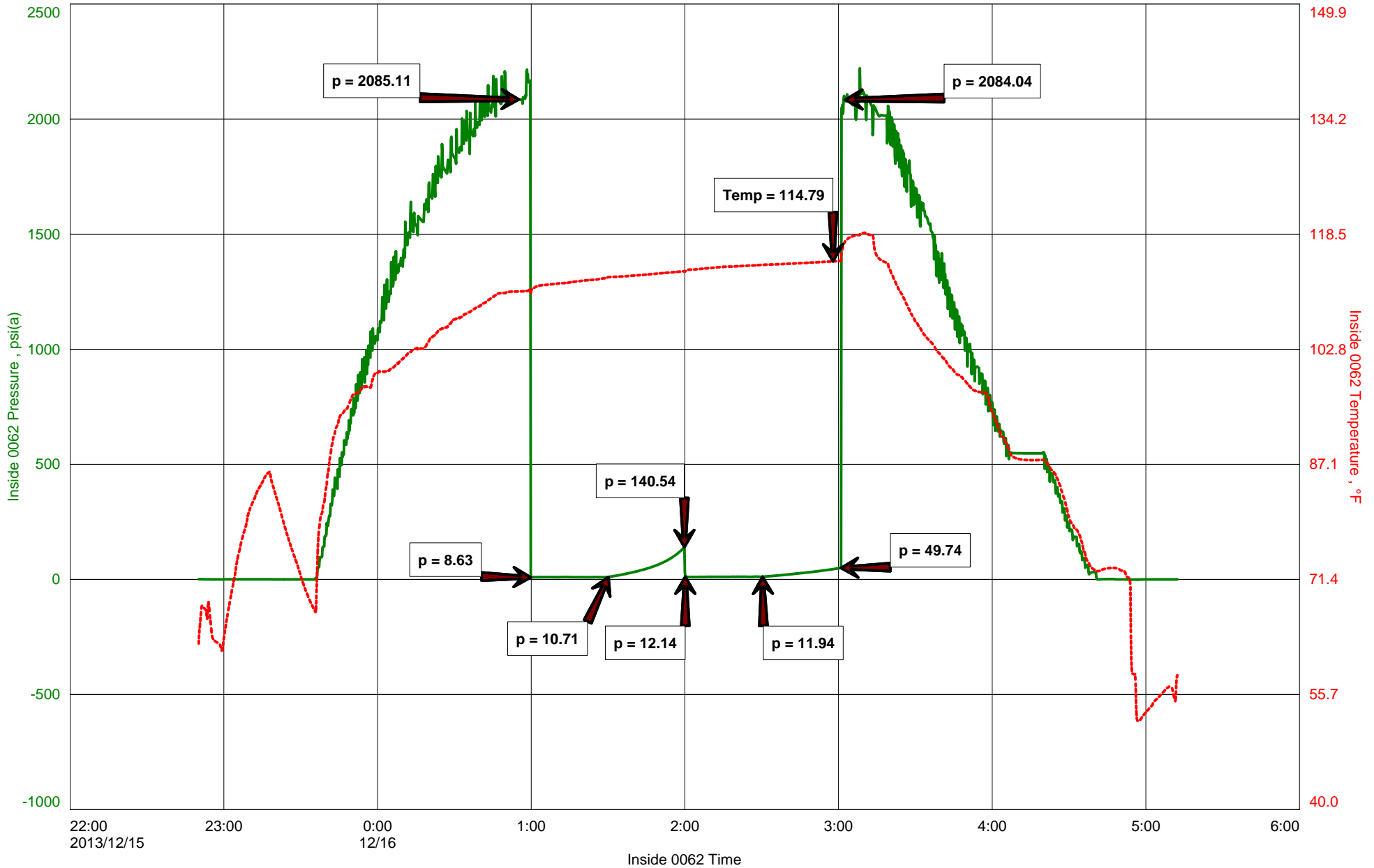
30 minute initial flow period: Weak blow, increased to .5" in bucket.
30 minute initial shut-in period: No blow-back.
30 minute final flow period: Weak surface blow.
30 minute final shut-in period: No blow-back.

Recovered: 10' SOCM 5% oil, 95% mud
----- Bottom-Hole Temp: 115 Deg F

Pressures:
IHP: 2085
IFP: 9-11
ISIP: 141
FFP: 12-12
FSIP: 50
FHP: 2084

Thanks

Doornbos #2-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DOORNBOS2DST1

TIME ON: 10:50 PM 12-15
TIME OFF: 5:13 AM 12-16

Company Grand Mesa Operating Company Lease & Well No. Doornbos #2-15
Contractor Duke Drilling Rig # Charge to Grand Mesa Operating Company
Elevation 3038' KB Formation Pleasanton Effective Pay Ft. Ticket No. F217
Date 16 Dec 2013 Sec. 15 Twp. 16 S Range 33 W County Scott State KANSAS
Test Approved By Bob Schreiber Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 4334 ft. to 4355 ft. Total Depth 4355 ft.
Packer Depth 4329 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth Shale 4334 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4311 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4335 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chemical Viscosity 57 Drill Collar Length ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 3700 P.P.M. Drill Pipe Length 4300 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J&SP) Test Tool Length 34 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 21 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to .5" in bucket. No blow-back.

2nd Open: Weak surface blow. No blow-back.

Recovered <u>10</u> ft. of <u>SOCM</u>	<u>5% oil, 95% mud</u>
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Remarks: <u> </u>	Insurance
	Total

Time Set Packer(s) 1:00 AM A.M. Time Started Off Bottom 3:00 AM P.M. Maximum Temperature 115 Deg F

Initial Hydrostatic Pressure..... (A) 2085 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 141 P.S.I.
Final Flow Period..... Minutes 30 (E) 12 P.S.I. to (F) 12 P.S.I.
Final Closed In Period..... Minutes 30 (G) 50 P.S.I.
Final Hydrostatic Pressure..... (H) 2084 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 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	Doornbos #2-15
Well Operator	Grand Mesa Operating Company	Unique Well ID	DST #2 Marmaton/Pawnee 4351'-4456'
Contact	Steve Stribling	Surface Location	Sec 15-16s-33w-Scott Co.-KS
Site Contact	Bob Schreiber	Test Unit	#5
Field	Wildcat	Pool	NA
Well Type	Vertical	Job Number	F218
Prepared By	Jake Fahrenbruch	Qualified By	Bob Schreiber

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Marmaton/Pawnee 4351'-4456'	Gauge Name	Inside 0062
Start Test Date	2013/12/16	Start Test Time	20:40:00
Final Test Date	2013/12/17	Final Test Time	04:50:00

Test Results

30 minute initial flow period:	Weak blow, increased to 4".
45 minute initial shut-in period:	No blowback.
60 minute final flow period:	Weak blow, increased to 7".
90 minute final shut-in period:	No blowback.

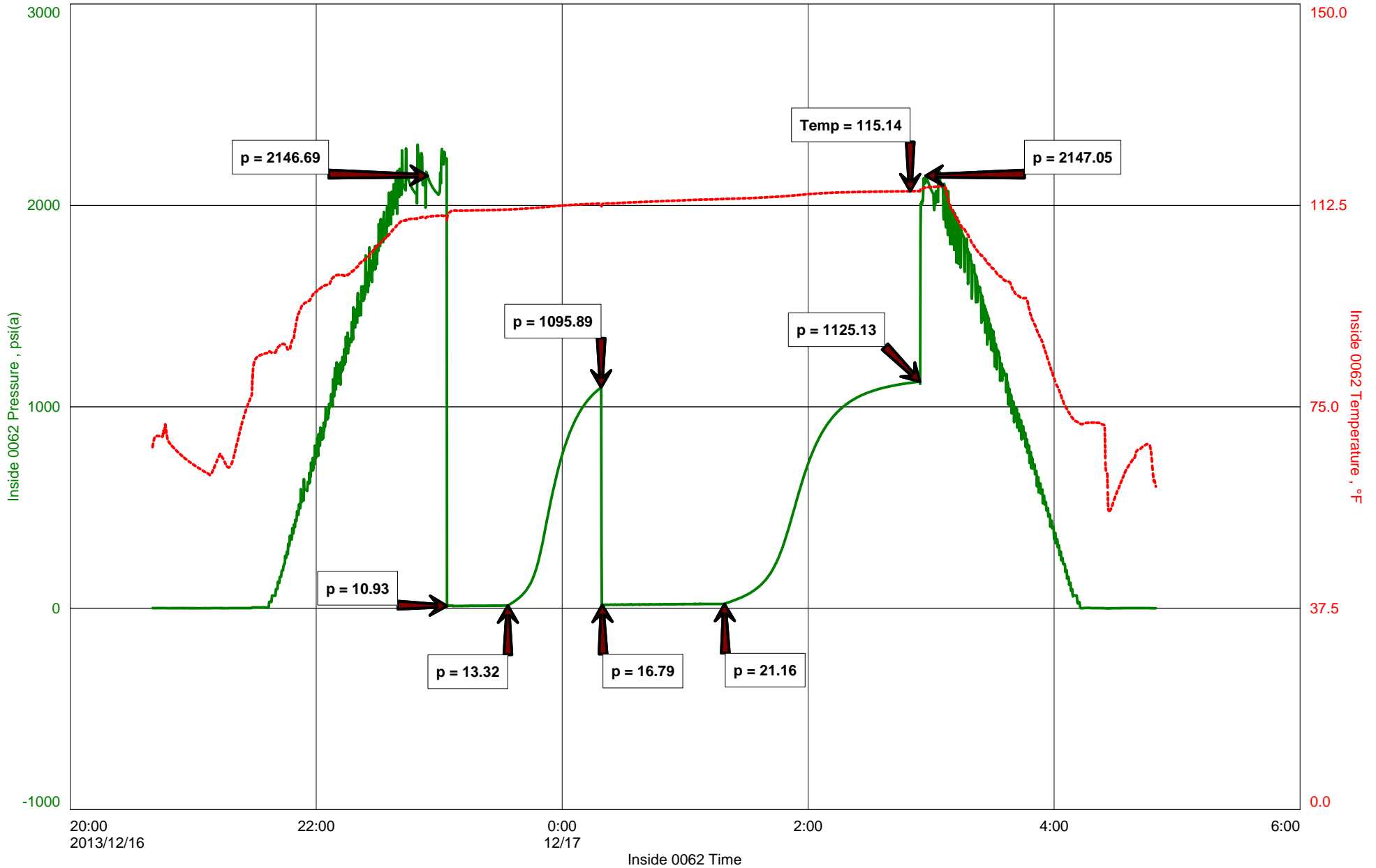
Recovered: 35' Oily Mud 46% oil, 54% mud
Bottom-Hole Temp: 115 Deg F

Pressures:

IHP:	2147
IFP:	11-13
ISIP:	1096
FFP:	17-21
FSIP:	1125
FHP:	2147

Thanks.

Doornbos #2-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DOORNBOS2DST2

TIME ON: 8:40 PM
TIME OFF: 4:50 AM 12-17

Company Grand Mesa Operating Company Lease & Well No. Doornbos #2-15
Contractor Duke Drilling Rig # 4 Charge to Grand Mesa Operating Company
Elevation 3038' KB Formation Marmaton/Pawnee Effective Pay _____ Ft. Ticket No. F218
Date 16 Dec 2013 Sec. 15 Twp. _____ 16 S Range _____ 33 W County _____ Scott State KANSAS
Test Approved By Bob Schreiber Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 4351 ft. to 4456 ft. Total Depth 4456 ft.
Packer Depth 4346 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4351 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4329 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4352 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 60 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 4500 P.P.M. Drill Pipe Length 4318 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 105 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 39' PERF(19' TOP, 20' BTM) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 4". No blowback.
2nd Open: Weak blow, increased to 7". No blowback.

Recovered <u>35</u> ft. of <u>Oily Mud</u>	<u>46% oil, 54% mud</u>
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) 11:07 PM A.M. P.M. Time Started Off Bottom 2:52 AM A.M. P.M. Maximum Temperature 115 Deg F

Initial Hydrostatic Pressure..... (A) 2147 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 13 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1096 P.S.I.
Final Flow Period..... Minutes 60 (E) 17 P.S.I. to (F) 21 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1125 P.S.I.
Final Hydrostatic Pressure..... (H) 2147 P.S.I.

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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	Doornbos #2-15
Well Operator	Grand Mesa Operating Company	Unique Well ID	DST #3 Johnson/Atoka 4544'-4649'
Contact	Steve Stribling	Surface Location	Sec 15-16s-33w-Scott Co.-KS
Site Contact	Bob Schreiber	Test Unit	#5
Field	Wildcat	Pool	NA
Well Type	Vertical	Job Number	F219
Prepared By	Jake Fahrenbruch	Qualified By	Bob Schreiber

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Johnson/Atoka 4544'-4649'	Gauge Name	Inside 0062
Start Test Date	2013/12/18	Start Test Time	06:18:00
Final Test Date	2013/12/18	Final Test Time	13:03:00

Test Results

30 minute initial flow period:	Weak blow, built to 1.25".
30 minute initial shut-in period:	No blow-back.
30 minute final flow period:	Weak blow, built to 1".
30 minute final shut-in period:	No blow-back.

Recovered:

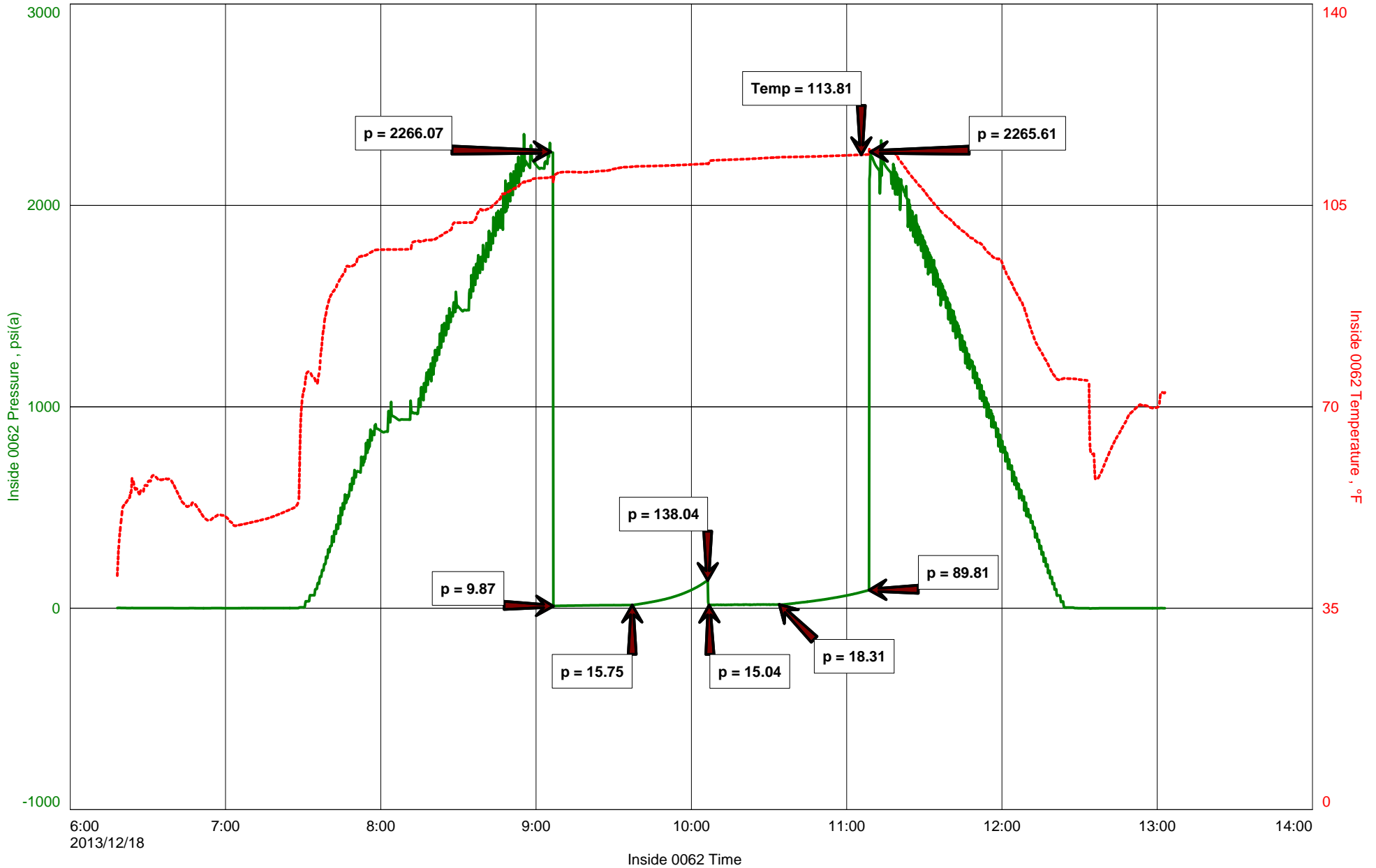
15' OSM	2% oil, 98% mud
	Bottom-Hole Temp: 114 Deg F

Pressures:

IHP:	2266
IFP:	10-16
ISIP:	138
FFP:	15-18
FSIP:	90
FHP:	2266

Thanks.

Doornbos #2-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DOORNBOS2DST3

TIME ON: 6:18 AM
TIME OFF: 1:03 PM

Company Grand Mesa Operating Company Lease & Well No. Doornbos #2-15
Contractor Duke Drilling Rig # Charge to Grand Mesa Operating Company
Elevation 3038' KB Formation Johnson/Atoka Effective Pay Ft. Ticket No. F219
Date 18 Dec 2013 Sec. 15 Twp. 16 S Range 33 W County Scott State KANSAS
Test Approved By Bob Schreiber Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 4544 ft. to 4649 ft. Total Depth 4649 ft.
Packer Depth 4539 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth 4544 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4522 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4545 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chemical Viscosity 57 Drill Collar Length ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.6 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 6000 P.P.M. Drill Pipe Length 4511 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 105 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 39' PERF(19' TOP, 20' BTM) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, increased to 1.25". No blowback.
2nd Open: Weak blow, increased to 1". No blowback.

Recovered <u>15</u> ft. of <u>OSM</u>	<u>2% oil, 98% mud</u>
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Remarks: <u> </u>	Insurance
	Total

Time Set Packer(s) 9:07 AM A.M. P.M. Time Started Off Bottom 11:07 AM A.M. P.M. Maximum Temperature 114 Deg F

Initial Hydrostatic Pressure..... (A) 2266 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 138 P.S.I.
Final Flow Period..... Minutes 30 (E) 15 P.S.I. to (F) 18 P.S.I.
Final Closed In Period..... Minutes 30 (G) 90 P.S.I.
Final Hydrostatic Pressure..... (H) 2266 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 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	Doornbos #2-15
Well Operator	Grand Mesa Operating Company	Unique Well ID	DST #4 Mississippian 4709'-4734'
Contact	Steve Stribling	Surface Location	Sec 15-16s-33w-Scott Co.-KS
Site Contact	Bob Schreiber	Test Unit	#5
Field	Wildcat	Pool	NA
Well Type	Vertical	Job Number	F220
Prepared By	Jake Fahrenbruch	Qualified By	Bob Schreiber

Test Information

Test Type	Bottom/Hole w/J&J	Test Purpose	Initial Test
Formation	Mississippian 4709'-4734'	Gauge Name	Inside 0062
Start Test Date	2013/12/19	Start Test Time	03:00:00
Final Test Date	2013/12/19	Final Test Time	10:20:00

Test Results

30 minute initial flow period:	Weak blow @ 1".
45 minute initial shut-in period:	No blow.
30 minute final flow period:	No blow, increased to a weak surface blow.
60 minute final shut-in period:	No blow.

Recovered:

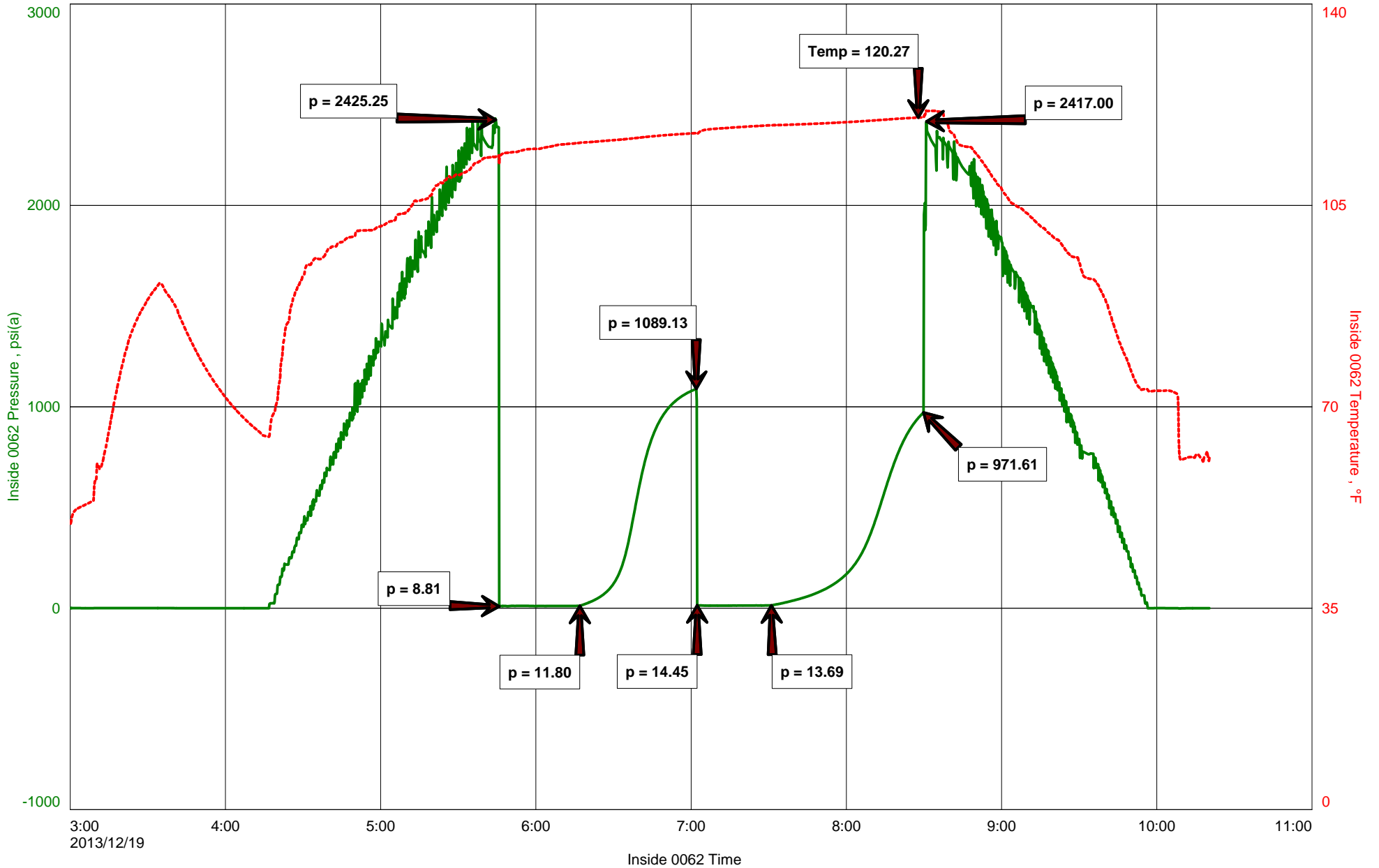
10'	SOCM 8% oil, 92% mud
	Bottom-Hole Temp: 120 Deg F

Pressures:

IHP:	2425
IFP:	9-12
ISIP:	1089
FFP:	14-14
FSIP:	972
FHP:	2417

Thanks.

Doornbos #2-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DOORNBOS2DST4

TIME ON: 3:00 AM
TIME OFF: 10:20 AM

Company Grand Mesa Operating Company Lease & Well No. Doornbos #2-15
Contractor Duke Drilling Rig # Charge to Grand Mesa Operating Company
Elevation 3038' KB Formation Mississippian Effective Pay Ft. Ticket No. F220
Date 19 Dec 2013 Sec. 15 Twp. 16 S Range 33 W County Scott State KANSAS
Test Approved By Bob Schreiber Diamond Representative Jake Fahrenbruch

Formation Test No. FOUR Interval Tested from 4709 ft. to 4734 ft. Total Depth 4734 ft.
Packer Depth 4704 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Packer Depth 4709 ft. Size 6 3/4 in. Packer depth ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 4687 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4710 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chemical Viscosity 62 Drill Collar Length ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.2 cc. Weight Pipe Length ft. I.D. 2 7/8 in.
Chlorides 5000 P.P.M. Drill Pipe Length 4676 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 25 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, @ 1".
2nd Open: No blow, increased to a weak surface blow.

Recovered <u>10</u> ft. of <u>SOCM</u> <u>8% oil, 92% mud</u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	
Recovered <u> </u> ft. of <u> </u>	Price Job
Recovered <u> </u> ft. of <u> </u>	Other Charges
Remarks: <u>***** TORE-UP TOP PACKER *****</u>	Insurance
	Total

Time Set Packer(s) 5:45 AM A.M. P.M. Time Started Off Bottom 8:30 AM A.M. P.M. Maximum Temperature 120 Deg D
Initial Hydrostatic Pressure..... (A) 2425 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1089 P.S.I.
Final Flow Period..... Minutes 30 (E) 14 P.S.I. to (F) 14 P.S.I.
Final Closed In Period..... Minutes 60 (G) 972 P.S.I.
Final Hydrostatic Pressure..... (H) 2417 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 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	Doornbos #2-15
Well Operator	Grand Mesa Operating Company	Unique Well ID	DST #5 Morrow Sand 4641'-4734'
Contact	Steve Stribling	Surface Location	Sec 15-16s-33w-Scott Co.-KS
Site Contact	Bob Schreiber	Test Unit	#5
Field	Wildcat	Pool	NA
Well Type	Vertical	Job Number	F221
Prepared By	Jake Fahrenbruch	Qualified By	Bob Schreiber

Test Information

Test Type	Bottom-Hole w/J&J	Test Purpose	Initial Test
Formation	Morrow Sand 4641'-4734'	Gauge Name	Inside 0062
Start Test Date	2013/12/19	Start Test Time	10:43:00
Final Test Date	2013/12/19	Final Test Time	18:18:00

Test Results

30 minute initial flow period:	Weak blow, built to 2.25".
45 minute initial shut-in period:	No blowback.
60 minute final flow period:	Weak blow, built to 3.5".
90 minute final shut-in period:	No blowback.

Recovered:

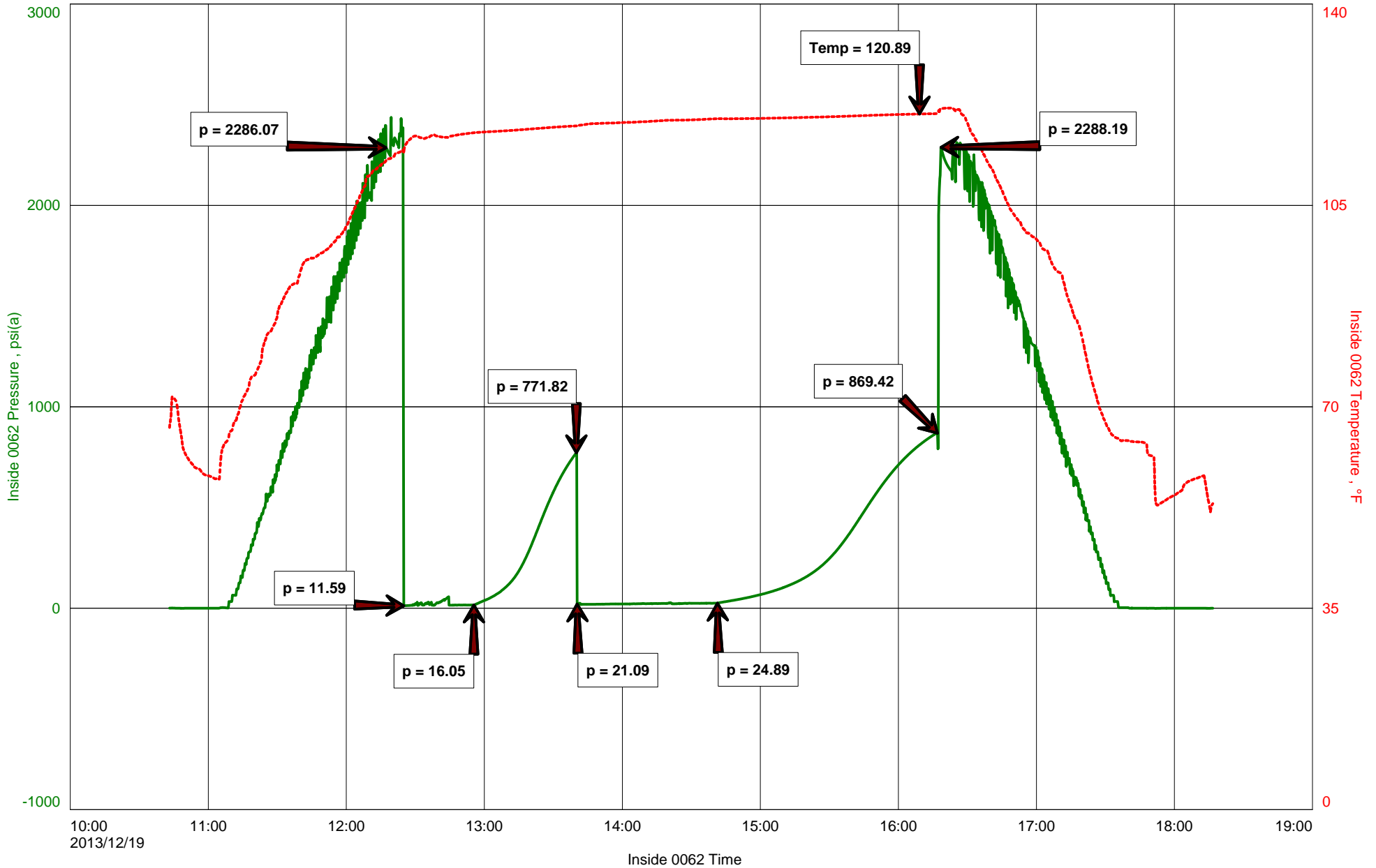
35'	SOCM 7% oil, 93% mud
	Bottom-Hole Temp: 121 Deg F

Pressures:

IHP:	2286
IFP:	12-16
ISIP:	772
FFP:	21-25
FSIP:	869
FHP:	2288

Thanks.

Doornbos #2-15





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: DOORNBOS2DST5

TIME ON: 10:43 AM
TIME OFF: 6:18 PM

Company Grand Mesa Operating Company Lease & Well No. Doornbos #2-15
Contractor Duke Drilling Rig # 4 Charge to Grand Mesa Operating Company
Elevation 3038' KB Formation Morrow Sand Effective Pay _____ Ft. Ticket No. F221
Date 19 Dec 2013 Sec. 15 Twp. _____ 16 S Range _____ 33 W County Scott State KANSAS
Test Approved By Bob Schreiber Diamond Representative Jake Fahrenbruch

Formation Test No. FIVE Interval Tested from 4641 ft. to 4734 ft. Total Depth 4734 ft.
Packer Depth 4636 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4641 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4619 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4645 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 63 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 8.0 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 5500 P.P.M. Drill Pipe Length 4608 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (J&J) Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 93 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{27' PERF (3'TOP, 24'BTM)} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Weak blow, built to 2.25".
2nd Open: Weak blow, built to 3.5".

Recovered 35 ft. of SOCM 7% oil, 93% mud
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) 12:25 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:10 PM ^{A.M.}/_{P.M.} Maximum Temperature 121 Deg F

Initial Hydrostatic Pressure..... (A) 2286 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 772 P.S.I.
Final Flow Period..... Minutes 60 (E) 21 P.S.I. to (F) 25 P.S.I.
Final Closed In Period..... Minutes 90 (G) 869 P.S.I.
Final Hydrostatic Pressure..... (H) 2288 P.S.I.

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

Well Name: Doornbos #2-15
Location: 754FNL, 520Y FEL, 15-16S-33W, Scott County, Kansas
License Number: API: 15-109-21177
Spud Date: 12-10-13
Surface Coordinates: Lat: 38.6882145 Long: -100.9458954
Bottom Hole Coordinates: Vertical hole

Ground Elevation (ft): 3027' K.B. Elevation (ft): 3038'
Logged Interval (ft): 3500 To: RTD Total Depth (ft): 4836
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

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

GEOLOGIST

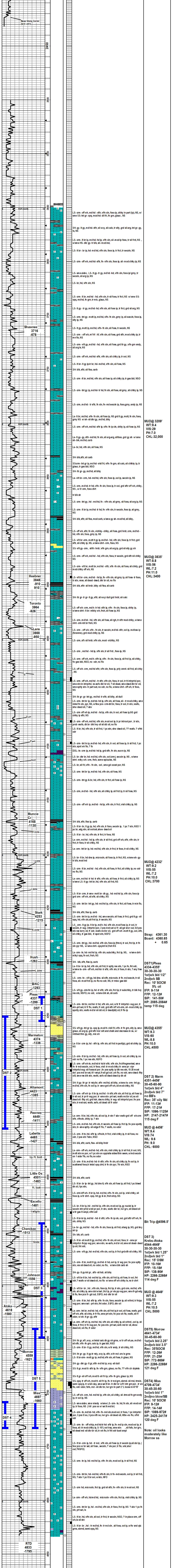
Name: Bob Schreiber
Company: Independent
Address: 268 NE 220 Rd
Holsington, KS 67544
620-653-7691

COMMENTS

Contractor: Duke Rig #4
Pusher: Rich Wheeler
Surface Casing: 8 5/8" set at 216' w/165sx
Production Casing: none,
Mud by: MudCo
DST's by: Diamond Testing
Logs by: Weatherford (DL, CN-CD, ML)
RTD=4833'
LTD=4836'

FORMATION TOPS

FORMATION	SAMPLE TOPS		LOG TOPS	
	Depth	Datum	Depth	Datum
Stone Corral	2402'	+636	2403'	+633
B/Stone Corral	2423'	+615	2422'	+614
Heebner Shale	3948'	-910	3949'	-911
Leabner Shale	3988'	-950	3990'	-952
Muncie Creek Shale	4168'	-1130	4169'	-1131
Stark Shale	4253'	-1215	4254'	-1216
Hushpuckney Shale	4300'	-1262	4302'	-1264
Pleasanton	4337'	-1299	4338'	-1300
Altamont	4423'	-1385'	4424'	-1386
Little Osage Shale	4501'	-1463'	4503'	-1465
Excello Zone	4519'	-1481	4520'	-1482
Johnson	4493'	-1556	4595'	-1557
Morrow	4659'	-1621	4661'	-1623
Mississippian	4697'	-1660	4700'	-1662
RTD	4833'	-1795		
LTD			4836'	-1798



MUD@ 3209'
WT:8.8
VIS:29
PH:7.0
CHL:32,000

MUD@ 3835'
WT:8.6
VIS:56
PH:11.0
CHL:3400

MUD@ 4232'
WT:9.3
VIS:5.5
PH:10.0
CHL:3700

MUD@ 4355'
WT:9.3
VIS:8.8
PH:10.0
CHL:4500

MUD@ 4456'
WT:9.4
VIS:7.4
PH: 9.6
CHL: 6000

DST 1
DST 2
DST 3
DST 4
DST 5

Strap: 4361.30
Board: 4360.65
+ 0.65

DST1) Pleas
4334-4335'
30-30-30-30
2nd)wk bld 1/2"
2nd)wk SB
Rec: 10' SOCM
5% oil
IFP: 9-11#
FFP: 12-25#
SIP: 217-2147#
HP: 2286-2284#
temp 115 deg

DST 2) Marm
4351-4445'
30-45-60-90
1st)wk bld 2.25"
2nd)wk bld 7"
no BB's
Rec: 35' SOCM
IFP: 11-13#
FFP: 12-25#
SIP: 1096-1125#
HP: 2425-2417#
115 deg F

MUD@ 4649'
WT:9.3
VIS:5.5
PH:10.2
CHL:5000

DST 3)
Krebs-Atoka
4344-4649'
30-30-30-30
1st)wk bld 1.25"
2nd)wk bld 1"
Rec: 15' OSM
IFP: 10-16#
FFP: 11-13#
SIP: 138-90#
HP: 2286-2284#
114 deg F

DST 4) Miss
4374-4734'
30-45-30-60
1st)wk blow/SB
2nd)no blow/SB
Rec: 10' SOCM
IFP: 9-12#
FFP: 11-13#
SIP: 1089-972#
HP: 2425-2417#
120 deg F

Note: oil looks moderately like Morrow ss