



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235990
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: _____

1235990

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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

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

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

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

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

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

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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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> <i>(Submit ACO-4)</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	STEVE 1-4
Doc ID	1235990

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect Log
Microresisitvity Log
Caliper Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	STEVE 1-4
Doc ID	1235990

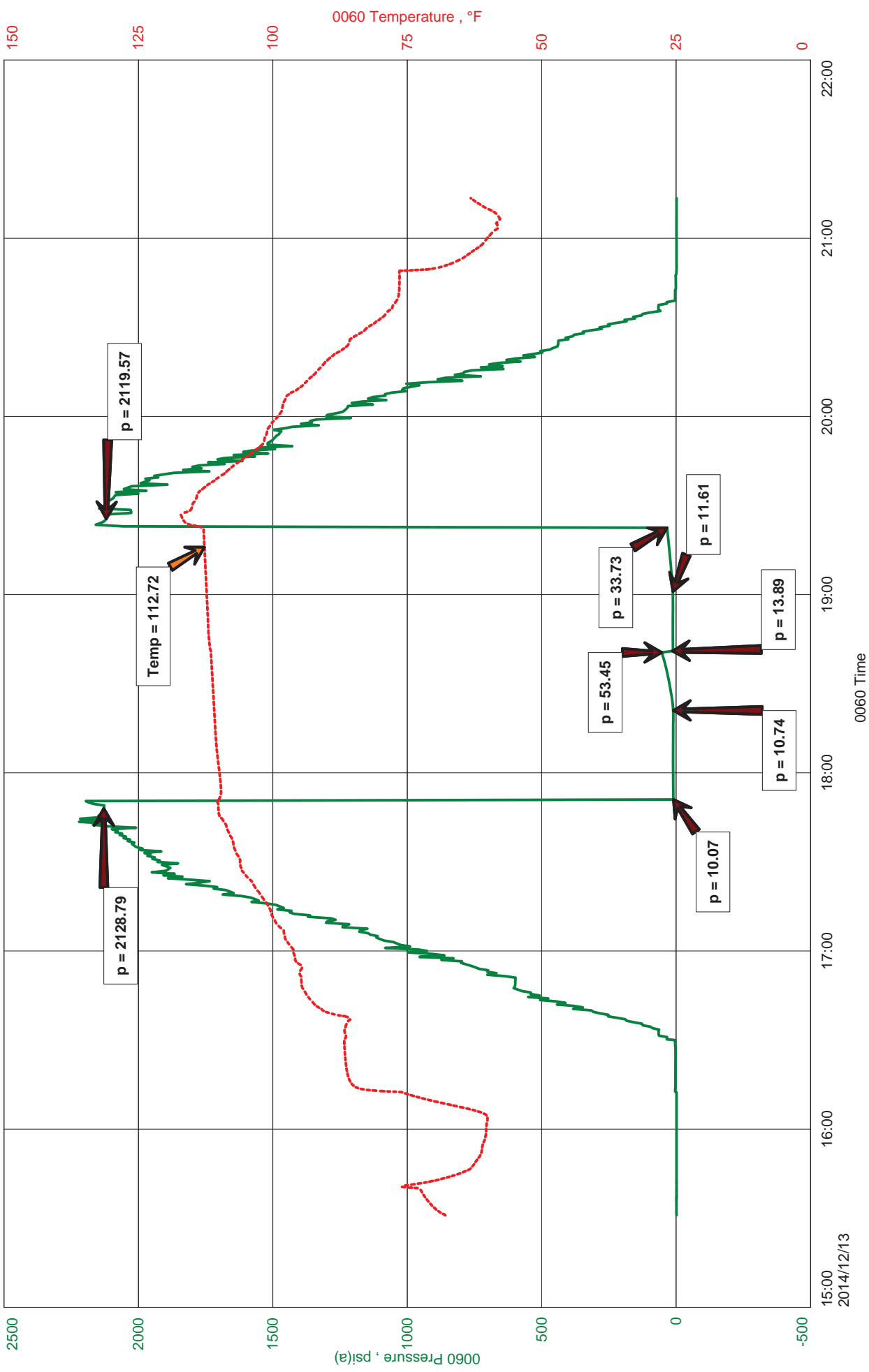
Tops

Name	Top	Datum
Stone Corral	1783	+704
Bs/Stone Corral	1816	+671
Heebner	3816	-1329
Lansing	3859	-1372
Muncie Creek	4004	-1517
Stark	4097	-1610
Marmaton	4201	-1714
Ft Scott	4354	-1867
Mississippian	4444	-1957
LTD	4660	

GRAND MESA OPERATING, CO
DST 1 4346-4380 FT SCOTT
Start Test Date: 2014/12/13
Final Test Date: 2014/12/13

STEVE #1-4
Formation: DST 1 4346-4380 FT SCOTT
Pool: WILDCAT
Job Number: JB14

STEVE #1-4





Hoisington, Kansas

JEFF BROWN
 620-617-6373
 brown.dtlc@gmail.com

General Information

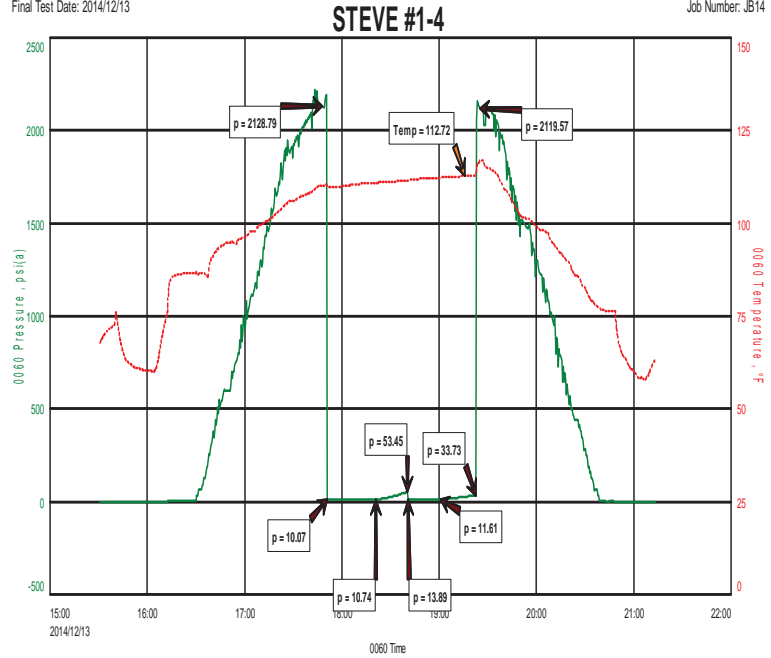
Company Name GRAND MESA OPERATING, CO

Test Information

Contact	MICHAEL J. REILLY
Well Name	STEVE #1-4
Unique Well ID	DST 1 4346-4380 FT SCOTT
Surface Location	SEC- 4-17S-24W NESS, CNTY, KS
Field	WILDCAT
Well Operator	GRAND MESA OPERATING, CO
Test Type	Drill Stem Test
Formation	DST 1 4346-4380 FT SCOTT
Well Fluid Type	01 Oil
Test Purpose (AEUB)	Initial Test
Start Test Date	2014/12/13
Start Test Time	15:31:00
Final Test Date	2014/12/13
Final Test Time	21:15:00
Job Number	JB14
Representative	JEFF BROWN
Prepared By	JEFF BROWN
Report Date	2014/12/13

GRAND MESA OPERATING, CO
 DST 1 4346-4380 FT SCOTT
 Start Test Date: 2014/12/13
 Final Test Date: 2014/12/13

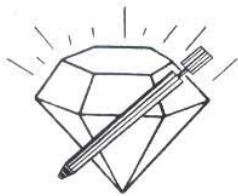
STEVE #1-4
 Formation: DST 1 4346-4380 FT SCOTT
 Pool: WILDCAT
 Job Number: JB14



FLUID RECOVERY

FLUID RECOVERY: 5' VSOCM 3%O 97%M

TOOL SAMPLE; VSOCM 3%O 97%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STEVE #1-4 DST1

TIME ON: 15:31
TIME OFF: 21:15

Company GRAND MESA OPERATING, CO Lease & Well No. STEVE #1-4
Contractor DUKE RIG 4 Charge to GRAND MESA OPERATING, CO
Elevation 2487 KB Formation FT, SCOTT Effective Pay _____ Ft. Ticket No. JB14
Date 12-13-14 Sec. 4 Twp. 17 S Range 24 W County NESS State KANSAS
Test Approved By _____ Diamond Representative JEFF BROWN

Formation Test No. 1 Interval Tested from 4346 ft. to 4380 ft. Total Depth 4380 ft.
Packer Depth 4341 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4346 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4327 ft. Recorder Number 0060 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4346 ft. Recorder Number 5517 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3300 P.P.M. Drill Pipe Length 4314 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 34 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 SURFACE BLOW DIED OUT IN 25 MIN (NObb)
2nd Open: DEAD NO BLOW (NObb)

Recovered <u>5</u> ft. of <u>VSOCM 3%O 97%M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID; 5' OF TOTAL FLUID</u>	Insurance
TOOL SAMPLE: <u>VSOCM 3%O 97%M</u>	Total

Time Set Packer(s) 5:51 P.M. A.M. P.M. Time Started Off Bottom 7:21 P.M. A.M. P.M. Maximum Temperature 113

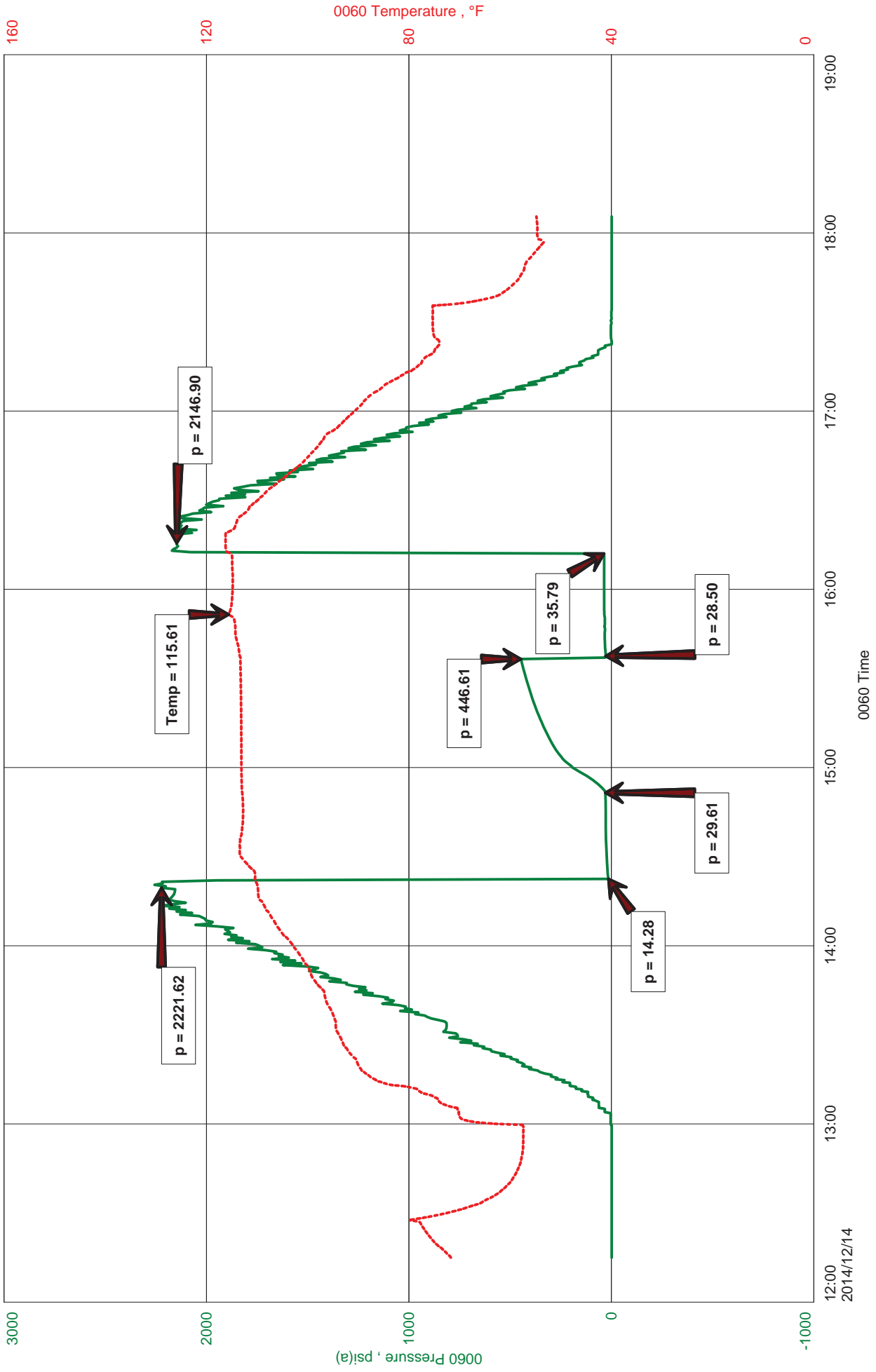
Initial Hydrostatic Pressure..... (A) 2129 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 11 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 53 P.S.I.
Final Flow Period..... Minutes 20 (E) 14 P.S.I. to (F) 12 P.S.I.
Final Closed In Period..... Minutes 20 (G) 34 P.S.I.
Final Hydrostatic Pressure..... (H) 2120 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GRAND MESA OPERATING, CO
DST 2 MISSISSIPPIAN 4398 - 4469
Start Test Date: 2014/12/14
Final Test Date: 2014/12/14

STEVE #1-4
Formation: DST 2 MISSISSIPPIAN 4398 - 4469
Pool: WILDCAT
Job Number: JB15

STEVE #1-4





Hoisington, Kansas

JEFF BROWN
620-617-6373
brown.dtlc@gmail.com

General Information

Company Name GRAND MESA OPERATING,CO

Test Information

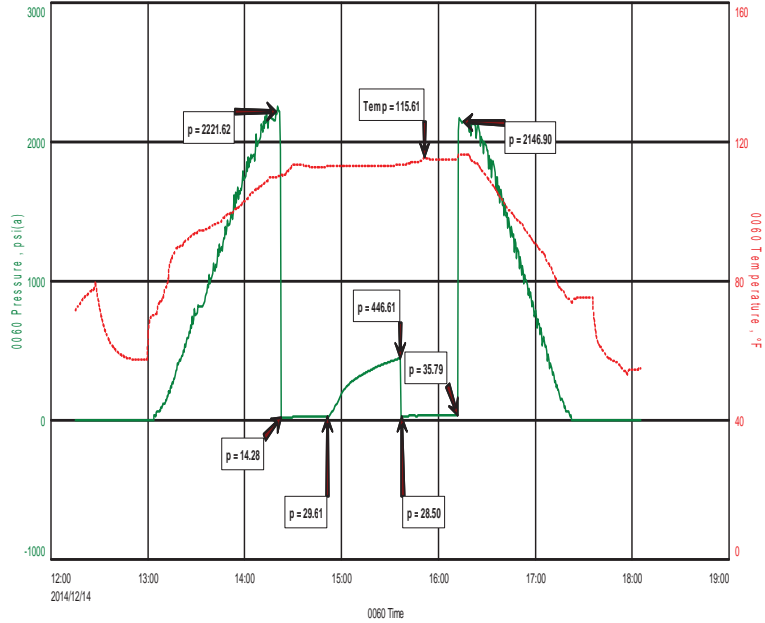
Contact
Well Name
Unique Well ID
Surface Location
Field
Well Operator
Test Type
Formation
Well Fluid Type
Test Purpose (AEUB)
Start Test Date
Start Test Time
Final Test Date
Final Test Time
Job Number
Representative
Prepared By
Report Date

MICHAEL J. REILLY
STEVE #1-4
DST 2 MISSISSIPPIAN 4398 - 4469
SEC- 4 17S-24W NESS, CNTY, KS
WILDCAT
GRAND MESA OPERATING,CO
Drill Stem Test
DST 2 MISSISSIPPIAN 4398 - 4469
01 Oil
Initial Test
2014/12/14
12:15:00
2014/12/14
18:06:00
JB15
JEFF BROWN
JEFF BROWN
2014/12/14

GRAND MESA OPERATING,CO
 DST 2 MISSISSIPPIAN 4398 - 4469
 Start Test Date: 2014/12/14
 Final Test Date: 2014/12/14

STEVE #1-4
 Formation: DST 2 MISSISSIPPIAN 4398 - 4469
 Pool: WILDCAT
 Job Number: JB15

STEVE #1-4



FLUID RECOVERY

RECOVERY; 50' OCM 20%O 80%M

TOOL SAMPLE; OCM 20%O 80%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STEVE #1-4 DST2

TIME ON: 12:15
TIME OFF: 18:06

Company GRAND MESA OPERATING, CO Lease & Well No. STEVE #1-4
Contractor DUKE RIG 4 Charge to GRAND MESA OPERATING, CO
Elevation 2487 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. JB15
Date 12-14-14 Sec. 4 Twp. _____ 17 S Range _____ 24 W County NESS State KANSAS
Test Approved By _____ Diamond Representative JEFF BROWN

Formation Test No. 2 Interval Tested from 4398 ft. to 4469 ft. Total Depth 4469 ft.
Packer Depth 4393 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4398 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4379 ft. Recorder Number 0060 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4336 ft. Recorder Number 5517 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 55 Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.4 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 3300 P.P.M. Drill Pipe Length 4366 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 71 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 BUILT TO 3-1/4 IN (NObb)
2nd Open: DEAD FLUSHED TOOL SURGED THEN DIED

Recovered <u>50</u> ft. of <u>OCM 20%O 80%M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID; 50' OF TOTAL FLUID</u>	Insurance
TOOL SAMPLE: <u>OCM 20%O 80%M</u>	Total

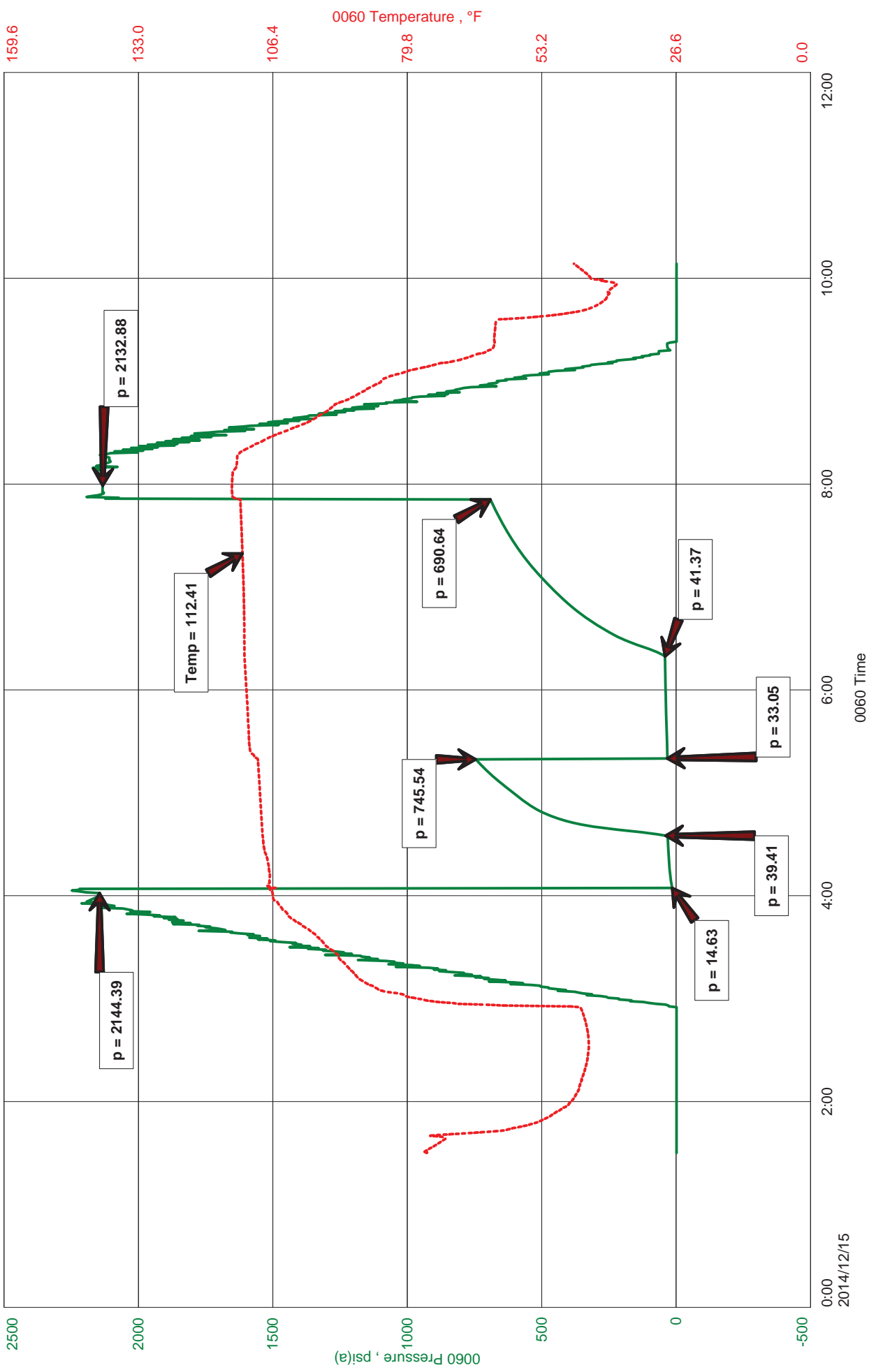
Time Set Packer(s) 2:22 P.M. A.M. P.M. Time Started Off Bottom 4:12 P.M. A.M. P.M. Maximum Temperature 116
Initial Hydrostatic Pressure..... (A) 2222 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 30 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 447 P.S.I.
Final Flow Period..... Minutes 35 (E) 29 P.S.I. to (F) 36 P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) 2147 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GRAND MESA OPERATING, CO
DST 3 MISSISSIPPIAN 4396 - 4480
Start Test Date: 2014/12/15
Final Test Date: 2014/12/15

STEVE #1-4
Formation: DST 3 MISSISSIPPIAN 4396 - 4480
Pool: WILDCAT
Job Number: JB16

STEVE #1-4





Hoisington, Kansas

JEFF BROWN
 620-617-6373
 brown.dtlc@gmail.com

General Information

Company Name GRAND MESA OPERATING, CO

Test Information

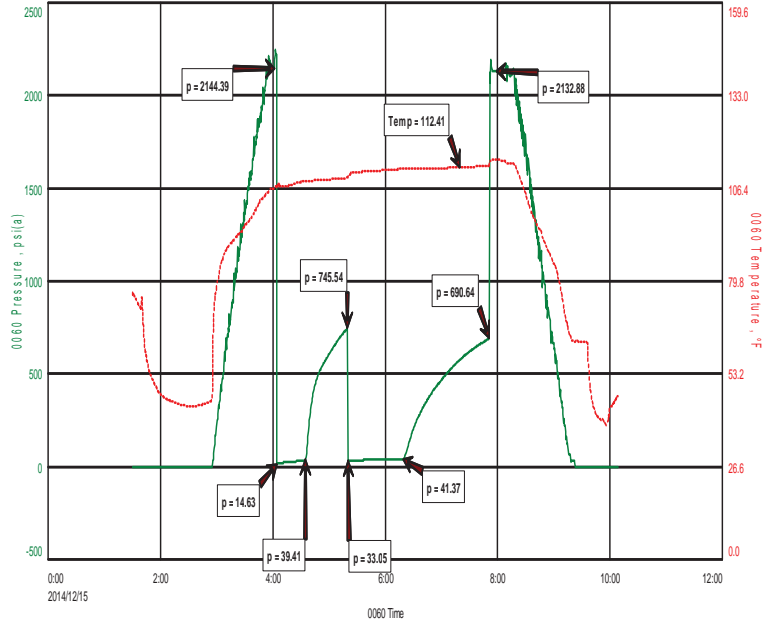
Contact
Well Name
Unique Well ID
Surface Location
Field
Well Operator
Test Type
Formation
Well Fluid Type
Test Purpose (AEUB)
Start Test Date
Start Test Time
Final Test Date
Final Test Time
Job Number
Representative
Prepared By
Report Date

MICHAEL J. REILLY
STEVE #1-4
 DST 3 MISSISSIPPIAN 4396 - 4480
 SEC- 4-17S-24W NESS, CNTY, KS
 WILDCAT
 GRAND MESA OPERATING, CO
 Drill Stem Test
 DST 3 MISSISSIPPIAN 4396 - 4480
 01 Oil
 Initial Test
 2014/12/15
 01:30:00
 2014/12/15
 10:10:00
 JB16
JEFF BROWN
JEFF BROWN
 2014/12/15

GRAND MESA OPERATING, CO
 DST 3 MISSISSIPPIAN 4396 - 4480
 Start Test Date: 2014/12/15
 Final Test Date: 2014/12/15

STEVE #1-4
 Formation: DST 3 MISSISSIPPIAN 4396 - 4480
 Pool: WILDCAT
 Job Number: JB16

STEVE #1-4



FLUID RECOVERY

RECOVERY: 5'- 100% OIL
 63' OCM 10%O 90%M
 37- GRAVITY

TOOL SAMPLE: OCM 10%O 90%M



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STEVE #1-4 DST3

TIME ON: 1:30
TIME OFF: 10:10

Company GRAND MESA OPERATING, CO Lease & Well No. STEVE #1-4
Contractor DUKE RIG 4 Charge to GRAND MESA OPERATING, CO
Elevation 2487 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. JB16
Date 12-15-14 Sec. 4 Twp. _____ 17 S Range _____ 24 W County NESS State KANSAS
Test Approved By _____ Diamond Representative JEFF BROWN

Formation Test No. 3 Interval Tested from 4396 ft. to 4480 ft. Total Depth 4480 ft.
Packer Depth 4391 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4396 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4377 ft. Recorder Number 0060 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4464 ft. Recorder Number 5517 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 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 4600 P.P.M. Drill Pipe Length 4364 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 84 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 BUILT TO 2-1/4 IN (NObb)
2nd Open: WEAK SURFACE BUILT TO 1/4 IN (NObb)

Recovered 5 ft. of OIL 100%OIL
Recovered 63 ft. of OCM 10%O 90%M
Recovered _____ ft. of _____
Recovered _____ ft. of 37- GRAVITY

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID; 68' OF TOTAL FLUID</u>	Insurance
TOOL SAMPLE: <u>OCM 10%O 90%M</u>	Total

Time Set Packer(s) 4:05 A.M. A.M. P.M. Time Started Off Bottom 7:50 A.M. A.M. P.M. Maximum Temperature 112

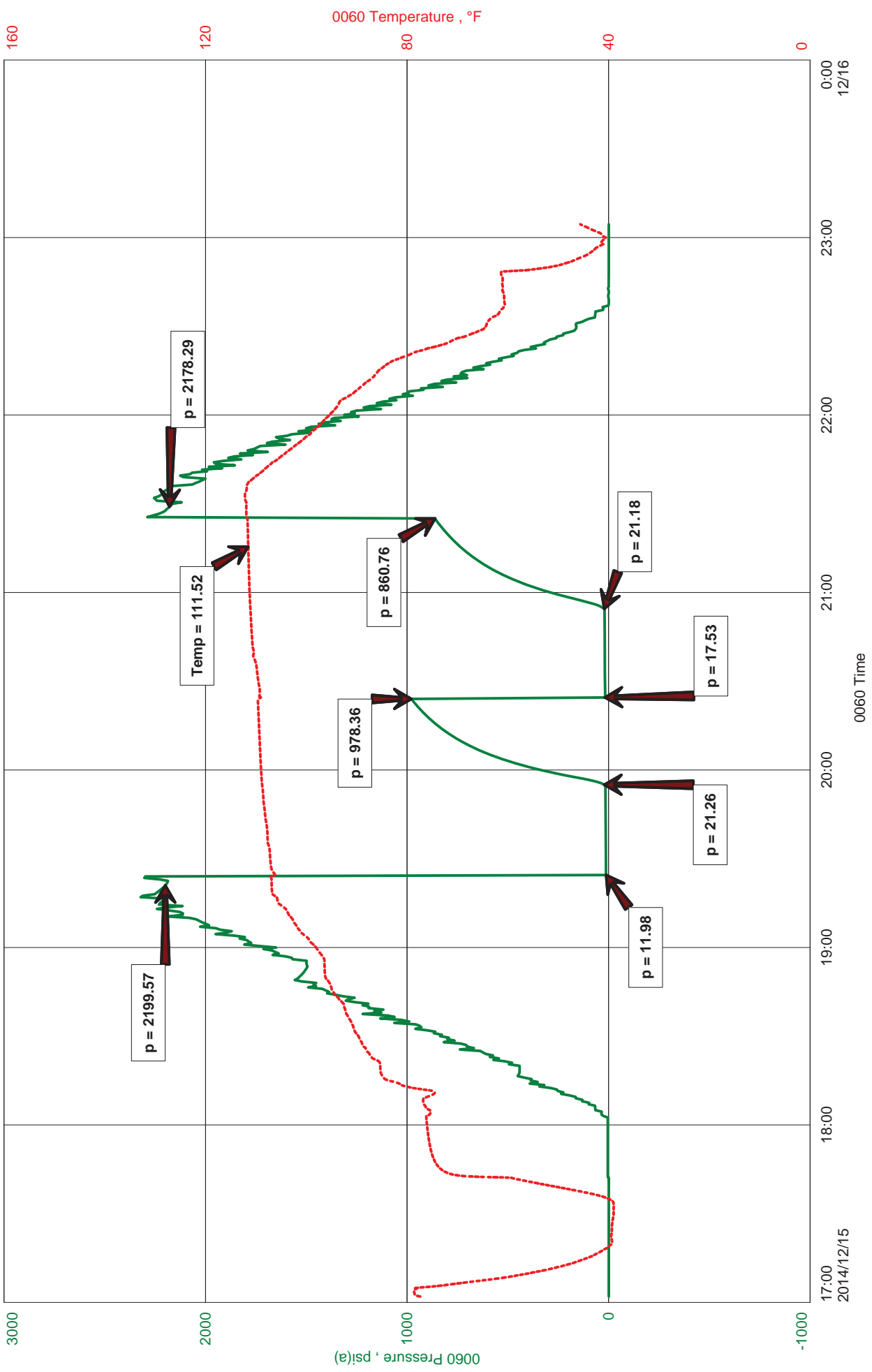
Initial Hydrostatic Pressure..... (A) 2144 P.S.I.
Initial Flow Period..... Minutes 30 (B) 15 P.S.I. to (C) 39 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 746 P.S.I.
Final Flow Period..... Minutes 60 (E) 33 P.S.I. to (F) 41 P.S.I.
Final Closed In Period..... Minutes 90 (G) 691 P.S.I.
Final Hydrostatic Pressure..... (H) 2133 P.S.I.

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GRAND MESA OPERATING, CO
DST #4 MISSISSIPPIAN 4468 - 4480
Start Test Date: 2014/12/15
Final Test Date: 2014/12/15

STEVE #1-4
Formation: DST #4 MISSISSIPPIAN 4468 - 4480
Pool: WILDCAT
Job Number: JB17

STEVE #1-4





Hoisington, Kansas

JEFF BROWN
620-617-6373
brown.dtlc@gmail.com

General Information

Company Name GRAND MESA OPERATING, CO

Test Information

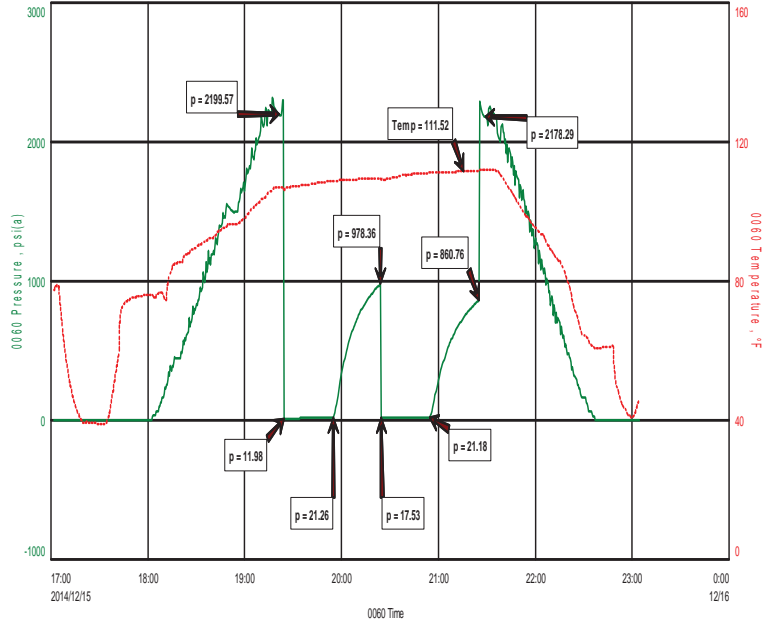
Contact
Well Name
Unique Well ID
Surface Location
Field
Well Operator
Test Type
Formation
Well Fluid Type
Test Purpose (AEUB)
Start Test Date
Start Test Time
Final Test Date
Final Test Time
Job Number
Representative
Prepared By
Report Date

MICHAEL J, REILLY
STEVE #1-4
DST #4 MISSISSIPPIAN 4468 - 4480
SEC- 4-17S-24W NESS, CNTY, KS
WILDCAT
GRAND MESA OPERATING, CO
Drill Stem Test
DST #4 MISSISSIPPIAN 4468 - 4480
01 Oil
Initial Test
2014/12/15
17:02:00
2014/12/15
23:05:00
JB17
JEFF BROWN
JEFF BROWN
2014/12/15

GRAND MESA OPERATING, CO
DST #4 MISSISSIPPIAN 4468 - 4480
Start Test Date: 2014/12/15
Final Test Date: 2014/12/15

STEVE #1-4
Formation: DST #4 MISSISSIPPIAN 4468 - 4480
Pool: WILDCAT
Job Number: JB17

STEVE #1-4



FLUID RECOVERY

RECOVERY: 25' MUD WITH OIL SPOTS

TOOL SAMPLE: MUD WITH OIL SPOTS



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: STEVE #1-4 DST4

TIME ON: 17:02
TIME OFF: 23:05

Company GRAND MESA OPERATING, CO Lease & Well No. STEVE #1-4
Contractor DUKE RIG 4 Charge to GRAND MESA OPERATING, CO
Elevation 2487 KB Formation MISSISSIPPIAN Effective Pay _____ Ft. Ticket No. JB17
Date 12-15-14 Sec. 4 Twp. _____ 17 S Range _____ 24 W County NESS State KANSAS
Test Approved By _____ Diamond Representative JEFF BROWN

Formation Test No. 4 Interval Tested from 4468 ft. to 4492 ft. Total Depth 4492 ft.
Packer Depth 4463 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4468 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4449 ft. Recorder Number 0060 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4469 ft. Recorder Number 5517 Cap. 5000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4600 P.P.M. Drill Pipe Length 4436 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 11 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 24 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 SURFACE BLOW BUILT TO 3/4 IN (NObb)
2nd Open: DEAD NO BLOW (NObb)

Recovered 25 ft. of MUD WITH OIL SPOTS
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Remarks: <u>TOTAL FLUID; 25' OF TOTAL FLUID</u>	Other Charges
TOOL SAMPLE: <u>MUD WITH OIL SPOTS</u>	Insurance
	Total

Time Set Packer(s) 7:25 P.M A.M. P.M. Time Started Off Bottom 9:25 P.M A.M. P.M. Maximum Temperature 112

Initial Hydrostatic Pressure..... (A) 2200 P.S.I.
Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 21 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 978 P.S.I.
Final Flow Period..... Minutes 30 (E) 18 P.S.I. to (F) 21 P.S.I.
Final Closed In Period..... Minutes 30 (G) 861 P.S.I.
Final Hydrostatic Pressure..... (H) 2178 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

GRAND MESA

OPERATING COMPANY

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

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

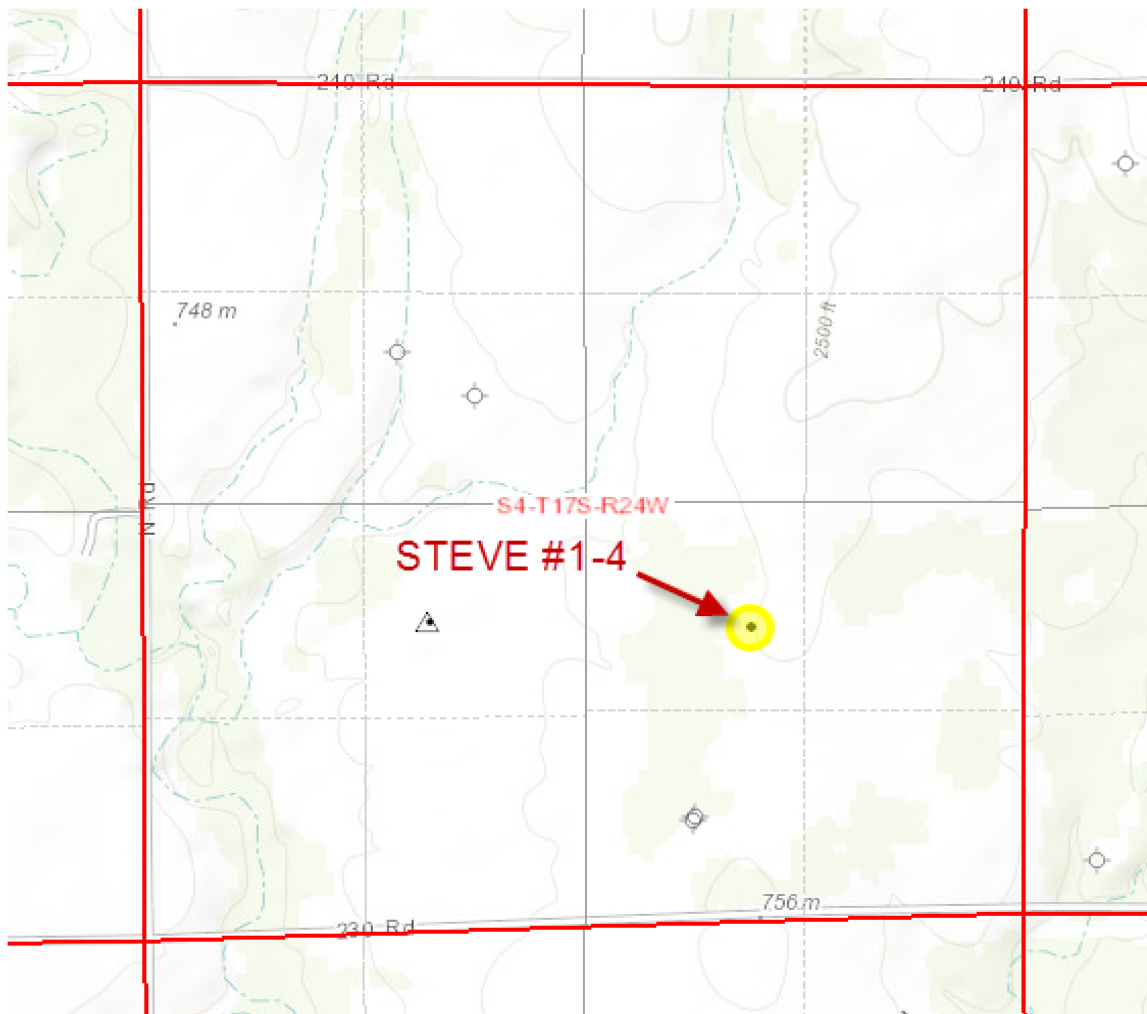
Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: STEVE #1-4
Location: 1813' FSL, 1639' FEL, Sec 04-T17S-R24W, NESS County, Kansas
License Number: API: 15-135-25839 Region: NESS County
Spud Date: 12/08/2014 Drilling Completed: 12/16/2014
Surface Coordinates: Lat: 38.5998849
Long: -99.9793485
Bottom Hole Vertical hole
Coordinates:
Ground Elevation (ft): 2478' K.B. Elevation (ft): 2487'
Logged Interval (ft): 3750' To: RTD Total Depth (ft): 4660'
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

Grand Mesa Company Geologist: Steve Stribling, 316-265-3000.

Drilling Contractor: Duke Drilling, Rig #4.

Tool Pusher: Rich Wheeler, 620-793-0834.

Surface Casing: 8 5/8" set at 221' (KB) w/150sx concrete.

Production Casing: Based on field observations of drill cuttings, DST results and electric log evaluation, production casing was not installed and the well was plugged and abandoned.

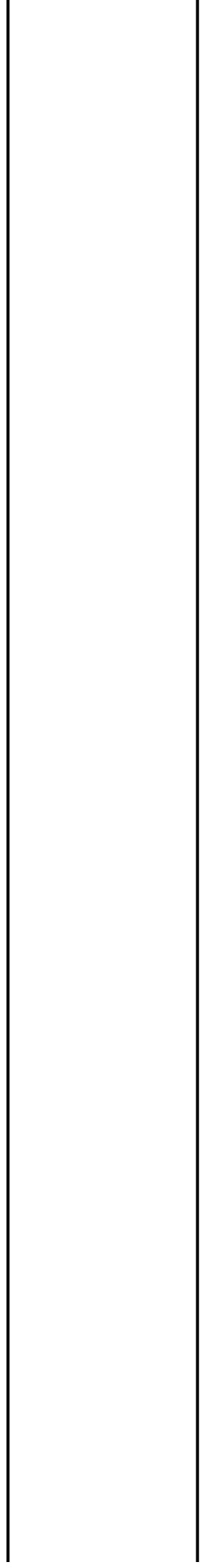
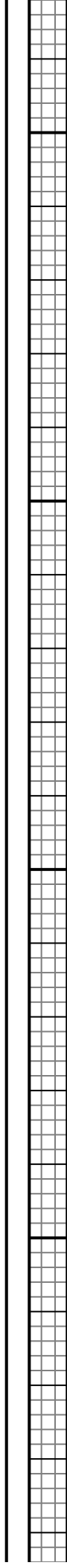
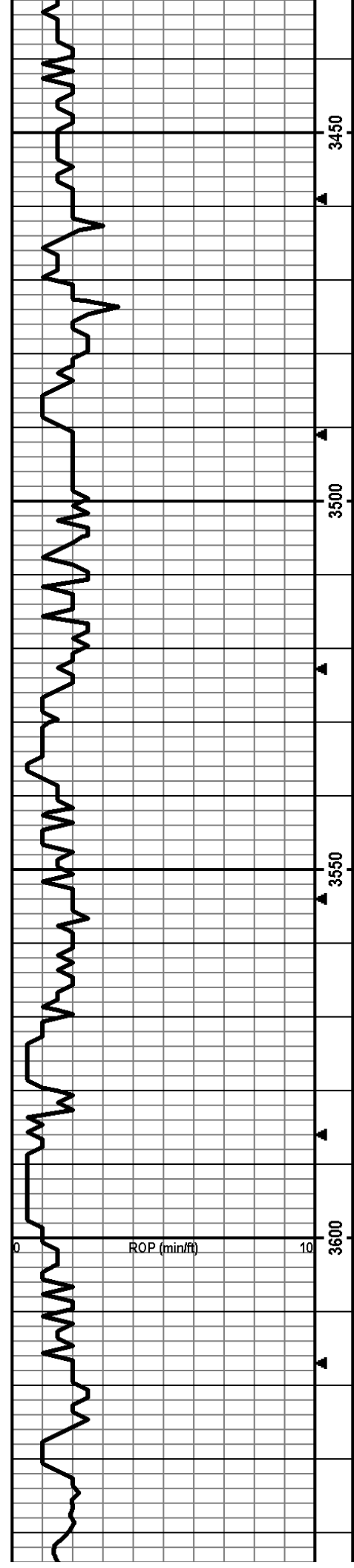
Mud by: MudCo/Service Mud, Inc.; Jason Whiting, 620-792-4544.

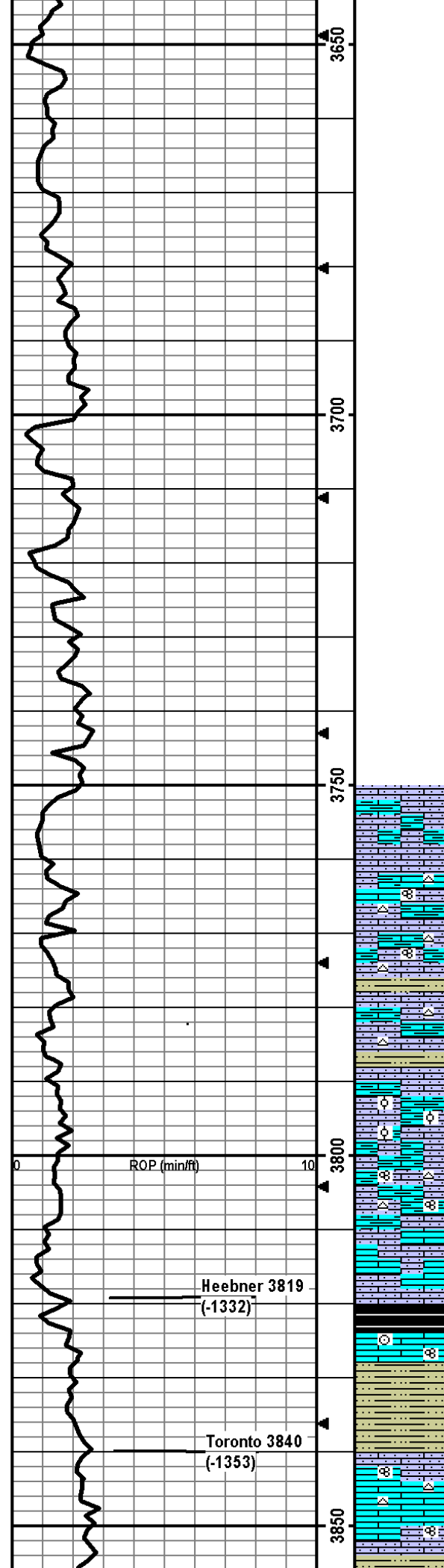
DST's by: Diamond Testing; Jeff Brown, 620-653-7550.

Logs by: Weatherford (DIL w/SP, CN-CD w/PEF); Jeff Randle 620-624-9324.

RTD= 4660'.

LTD= 4660'.





Drill cutting samples at 10' intervals start at 3750'.

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

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

LS: as above w/some SH: med-dk gry, vry silty, carb, firm, fissile.

LS: wht/crm/gry/brn, micro-med xtal, vry chalky, arg, silty/sndy, foss frags, wht/lt brn chert, no vis por, no odor, ns. Some SH: lt gry, silty, chalky, carb, soft.

LS: crm/lt brn/gry, micro-med xtal, vry chalky, vry silty/sndy, arg, foss frags/ool, ppt-fn in-xtal/in-ool por, no odor, ns.

LS: crm/lt brn/gry, micro-med xtal, vry chalky, vry silty/sndy, arg, foss frags/fusln, wht chert, ppt-fn in-xtal/in-ool por, no odor, ns.

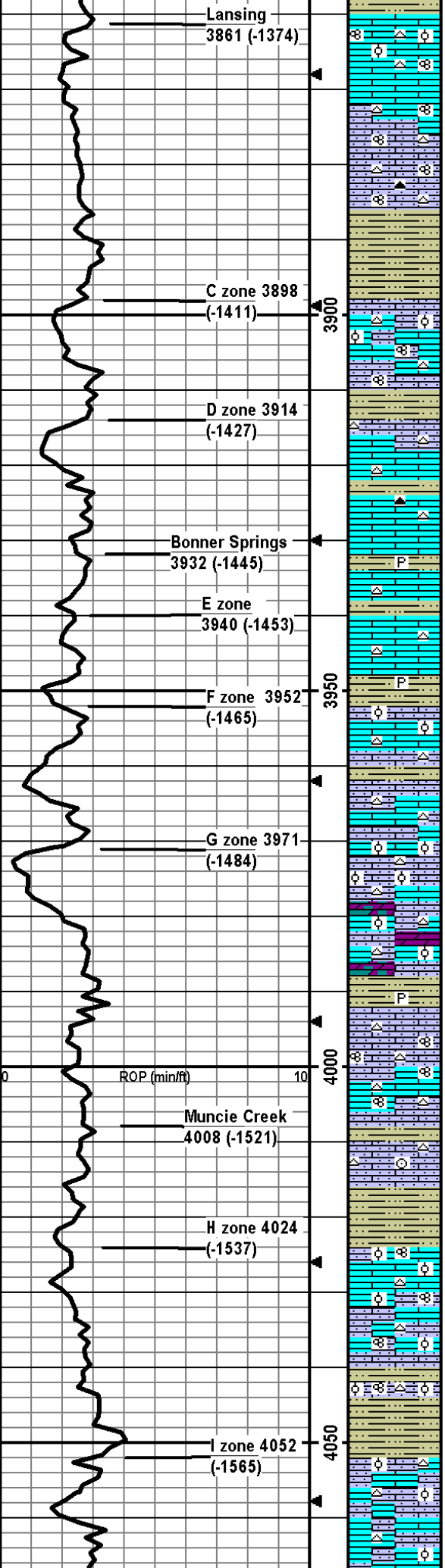
LS: crm/lt-med brn, micro-med xtal, vry chalky, vry sndy, foss frags, min frac por, no odor, ns.

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

LS: crm/lt-dk brn/gry, silty/sndy, chalky, foss frags/crin/fusln, min frac por, no odor, ns.

SH: lt-dk gry/brn, some vry silty, carb, firm, fissile.

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



SH: lt-dk gry/dk brn, vry silty, carb, soft-firm, fissile.

LS: crm/tan, micro-med xtal, foss frags/fusln/few dense ool, wht/crm chert, min ppt-fn in-xtal por, no odor, ns.

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

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

SH: lt-dk gry/med-dk brn, vry silty, carb, soft-firm, fissile.

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

SH: lt-dk gry, silty, carb, firm, fissile.

LS: wht/crm/tan, micro-med xtal, min foss frags, wht/crm/brn/lt orange chert, some ppt-fn in-xtal por, no odor, ns.

LS: crm/tan/lt brn/lt gry, micro-med xtal, some chalky, wht/crm/orange/dk gry chert, some frac por, no odor, ns.

SH: lt-med gry/brn, silty, carb, pyritic, firm-vry firm, fissile.

LS: crm/lt-med brn, micro-med xtal, some chalky, some wht/brn/orange chert, some frac por, no odor, ns.

SH: med-dk gry/lt green-gry, carb, silty, pyritic, firm, fissile.

LS: crm/lt brn/lt gry-brn, micro-med xtal, some silty, some chalky, foss frags/dense ool, wht/crm chert, min ppt-fn in-xtal/frac por, no odor, ns.

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

LS: crm/tan, micro-med xtal, some silty/sndy, some chalky, some wht/crm chert, abund ool, med-vug ool-castic por, no odor, ns.
Some Dolo: tan, silty/sndy, fn xtal.

LS: crm/tan, micro-fn xtal, silty/sndy, some wht/crm chert, foss frags w/some pcs w/abund ool, some ool-castic vug por, no odor, ns. Some Dolo: tan, silty/sndy, fn xtal.

SH: lt-med gry/lt green-gry/brn, vry silty, carb, slt pyritic, soft-firm, fissile.

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

LS: crm/lt gry, micro-fn xtal, some vry silty/sndy, foss frags/fusln, min crm/tan chert, mostly dense w/min ppt-fn in-xtal por, no odor, ns.

SH: med-dk gry/blk, slt carb, silty, soft-firm, fissile.

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

SH: gry/lt green-gry/mustard yel, some vry silty, slt carb, firm, fissile.

LS: crm/tan/lt brn, micro-med xtal, some silty/sndy, foss frags/fusln/abund ool, wht/crm/lt brn chert some ool, some ppt-med in-xtal por, no odor, ns.

LS: as above w/wht chalky pcs.

LS: crm/lt gry, micro-fn xtal, some silty, foss frags/fusln/ool, wht/crm chert, some ppt-fn in-xtal and fn-med oo-castic por, no odor, ns.

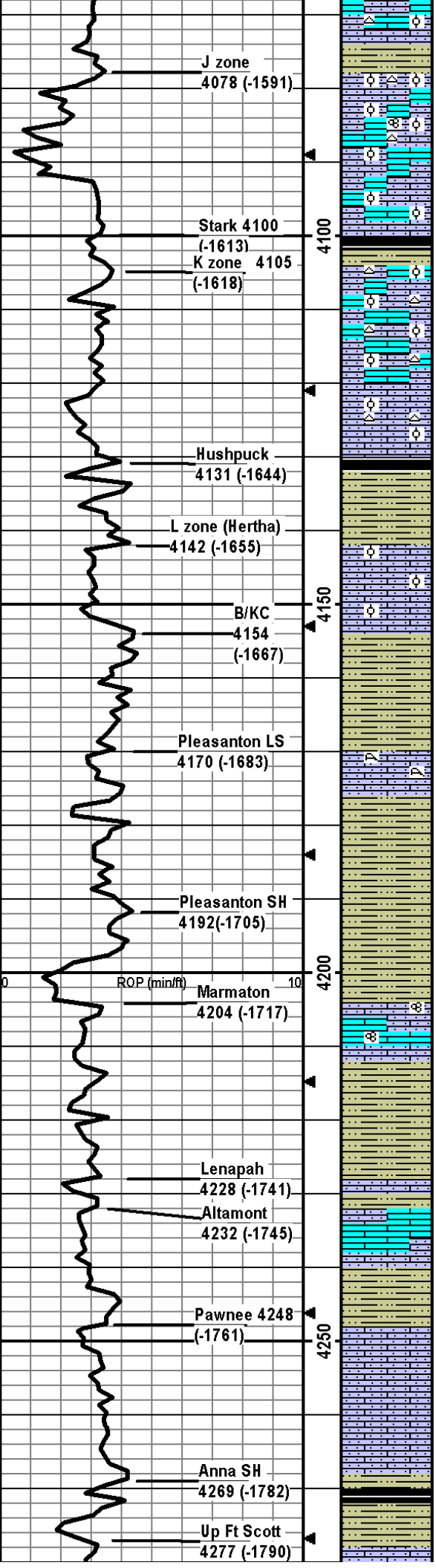
SH: lt-dk gry/lt green-gry, silty, carb, firm, fissile.

LS: crm/tan/lt brn, micro-med xtal, some chalky, some silty/sndy, min foss frags/some ool, wht/crm chert, mostly dense w/some ppt-fn in-xtal por, no odor, ns.

LS: crm/tan/lt brn, micro-fn xtal, min foss frags/min dense ool, some silty, wht/dk gry chert, some frac por, no odor, ns.

Mudco Check #4 @ 4052'
 12/12/14 01:05pm
 wt vis pH chl
 9.1 51 10.5 5100
 Filr LCM
 8.8 1

CFS @ 4089'
30"60"



LS: crm/tan, micro-fn xtal, min foss frags/ool, silty, wht/crm chert, min frac por, no odor, ns.
SH: lt-dk gry/brn, vry silty/sdy, carb, soft-firm, fissile.

LS: crm/tn/lt brn, micro-med xtal, some vry silty/sndy, some vry chalky, min wht chert, foss frags/fusln/abund ool, ppt-med in-xtal por w/frn-crs/vug oo-castic por, no odor, ns.

LS: crm/lt brn, micro-med xtal, foss frags/abund ool, some vry silty/sndy, min wht chalky pcs, ppt-fn in-xtal/in-ool and fn-crs oo-castic por, no odor, ns.
SH: lt-dk gry/blk, silty, slt carb, firm, fissile.

LS: crm/brn, micro-med xtal, some silty/sndy, min foss frags/ool, some wht/crm chert, some med-crs oo-castic por, no odor, ns.
LS: same as above, no odor, ns.

LS: crm/tan/gry, micro-fn xtal, silty/sndy, some chalky, wht/crm ool chert, min frac por, no odor, ns.
SH: med-dk gry/blk/brn, some vry silty, carb, firm, fissile.

LS: crm/tan/lt brn/gry-brn, micro-med xtal, silty/sndy, some chalky, arg, min foss frags/ool, min fn-crs oo-castic por, no odor, ns.
SH: lt-med gry w/min dk gry-blk, some vry silty, carb, soft-firm, fissile.
SH: lt-med gry, silty, carb, soft-firm.

LS: crm/gry-brn/gry, micro-med xtal, some silty/sndy, some chalky, arg, foss frags/coral/ool, some ppt-med in-xtal por, no odor, ns.
SH: lt-med gry/brn/maroon brn, vry silty/some sndy, carb, firm, fissile.

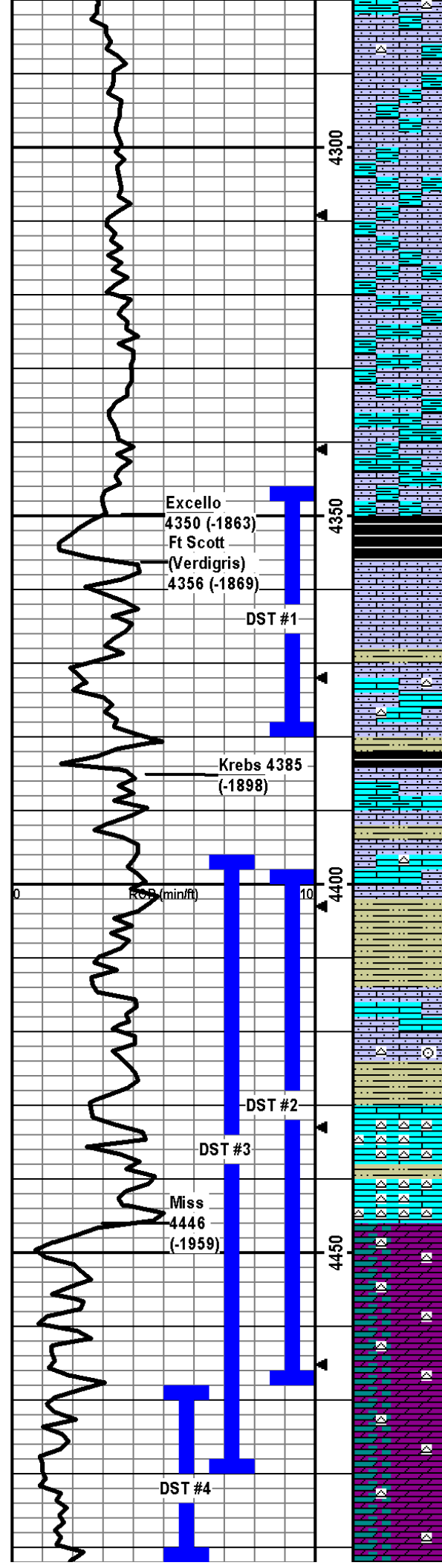
SH: lt-med gry/brn/min mustard yel, vry silty, carb, firm, fissile.

LS: crm/lt gry brn/lt brn, micro-med xtal, some silty, some chalky, foss frags/fusln, some frac por, no odor, ns.
SH: lt-med gry min dk gry/brn/min maroon/mustard yel, vry silty, carb, firm, fissile.

SH: lt-med gry/red brn/min maroon/mustard yel, vry silty, carb, soft-firm.

LS: crm/lt brn/lt gry, micro-fn xtal, some vry silty, some frac por, no odor, ns.
SH: med-dk gry/maroon/mustard yel, vry silty, carb, firm, fissile.

LS: crm/lt gry/tan, micro-fn xtal, vry silty, some chalky, some ppt-fn in-xtal/frac por, no odor, ns.
LS: crm/lt gry/lt brn, micro-fn xtal, vry silty, arg, min chalky, some frac por, no odor, ns.
SH: tan/lt-dk gry/maroon, vry silty, carb, firm, fissile.



LS: crm/lt gry, micro-fn xtal, vry silty/sndy, arg, some chalky, some lt brn/orange chert, no vis por, no odor, ns.

LS: crm/lt-med brn/lt gry, micro-fn xtal, vry silty/sndy, arg, some chalky, no vis por, no odor, ns.

LS: crm/lt-med gry-brn, micro-fn xtal, vry silty, arg, some chalky, min frac por, no odor, ns.

LS: crm/gry-brn, micro-fn xtal, vry silty/sndy, arg, min chalky, min frac por, no odor, ns.

LS: lt brn/lt-med gry, micro-fn xtal, vry silty/sndy, vry arg, some easily crushed/friable, some frac por, no odor, ns.

LS: med-dk gry, micro-fn xtal, vry silty, vry arg, some crushes easily/friable, min frac por, no odor, ns.

LS: same as above, no odor, ns.

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

LS: crm/brn, micro-fn xtal, silty/sndy, foss frags, vry gd ppt-crs in-xtal por, strg cup odor, yel flor, approx 10-15% of tray pcs w/vgsfo.

LS: same as above; 26 pcs w/ppt-crs in-xtal por w/sfo, strg cup odor, vgsfo.

SH: lt-dk gry, vry silty, carb, soft-firm.

LS: crm/tan, micro-med xtal, some silty/sndy, foss frags, some wht/crm chert, some chalky, gd cup odor and few pcs w/sfo assume from above.

SH: crm/lt-dk gry/green-gry, some vry silty, slt carb, firm, fissile

LS: crm/tan/lt gry-brn/gry, micro-med xtal, some vry silty, some arg, foss frags, some frac por, no odor, ns.

LS: wht/crm/lt brn, micro-med xtal, some silty, some chalky, min lt brn chert, min foss frags, some frac por, no odor, ns. Some SH: lt-dk gry/green gry, silty, slt carb, firm.

SH: lt-dk gry/blk/lt green-gry, some vry silty, carb, soft-firm.

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

LS: crm/tan/lt brn, micro-med xtal, some vry silty/sndy, some chalky, min foss frags/crin, some wht/crm/lt yel chert, some frac por, no odor, ns. Some SH: lt-dk gry/lt green-gry/dk maroon brn, vry silty/sndy, firm.

LS: crm/lt brn/lt gry, micro-med xtal, some silty, wht/crm/yel/orange chert, 16 pcs of chert w/ppt-crs in-xtal por/frac por w/sfo, dul yel flor, slt cup odor, sfo.

Some SH: lt-dk gry/maroon/mustard yel, some silty, slt carb, firm.

DOLO: crm/lt gry, micro-fn xtal, grainy, vry sndy, some chert as above, fn-med in-xtal por, strg cup odor, approx 10-15% of smpl w/sfo, ppt-fn w/min med in-xtal por, dul yel flor and vgsfo.

DOLO: as above w/25-30% of tray smple w/sfo, some blk tar oil, strg odor, vgsfo.

DOLO: as above w/40-50% of tray smpl w/sfo, increase in por size up to crs/vug, strg odor, vgsfo.

DOLO: wht/crm/lt gry, micro-fn xtal, silty/grainy, some wht/yel chert, fn-med w/some crs/vug in-xtal por, strg cup odor, decrease in amt of sfo to approx 10% of tray.

DOLO: crm/tan/gry, micro-fn xtal, silty/sndy, some yel/orange chert, fn-med w/some crs in-xtal por, 22 pcs in 30 min and 9 pcs in 60 min smpls w/sfo or staining, few pcs w/thk blk tarry oil, dul yel flor, gd cup odor, gsfo.

Note: This Ft Scott top is a local pick and not equivalent to western Kansas (Equivalent to Verdigris).

DST1) 4346-4380 Ft Scott
 30/20/20/20
 1st) weak surf blow died in 25 min, no BB.
 2nd) no blow, no BB
 IFP 10-11#
 ISIP 53#
 FFP 14-12#
 FSIP 34#
 HP 2129-2120#
 Recvd: 5' VSOCM (3%O).

CFS @ 4380'
 30"60"

Mudco Check #5 @ 4380'
 12/13/14 12:40pm
 wt vis pH chl
 9.3 55 10.5 3300
 Filt LCM
 8.4 1

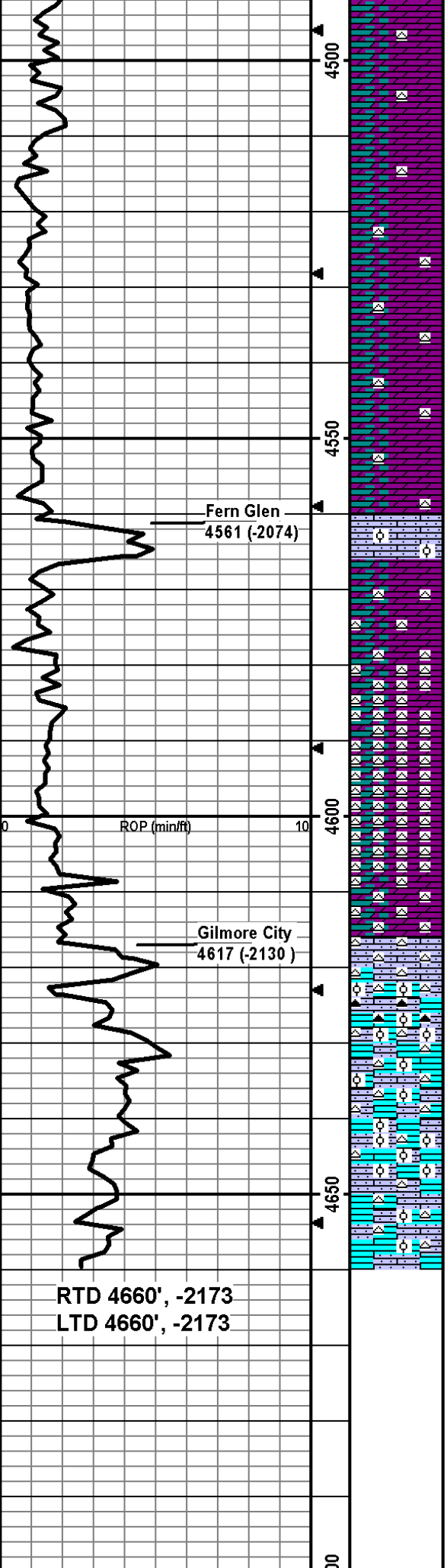
DST2) 4398-4469 Mississippian
 30/45/35/0
 1st) Wk blw built to 3.25", no BB.
 2nd) no blw so flushed tool and had surge then dead, pulled tool 35 min into 2nd open.
 IFP 14-30#
 ISIP 447#
 FFP 29-36#
 FSIP n/a
 HP 2222-2147#
 Recvd: 50' OCM (20%O).

Mudco Check #6 @ 4469'
 12/14/14 12:45pm
 wt vis pH chl
 9.3 45 9.5 4600
 Filt LCM
 8.8 tr

CFS @ 4469'
 30"60"

CFS @ 4480'
 30"60"

CFS @ 4492'



DOLO: wht/lt gryish crm-crm, micro-fn xtal, silty/sndy, min wht chert, fn-crs in-xtal por, 4 pcs w/sfo or staining, dul yel flor, slt odor, sfo.

DOLO: Lt gry/crm, micro-fn xtal, vry silty/sndy, some dk green min, some chalky, min wht chert, ppt-med in-xtal por, no odor, ns.

DOLO: as above, no odor, ns.

DOLO: crm/tan, micro-fn xtal, silty/sndy, min dk green min, increase in wht chert, some chalky, ppt-med in-xtal por, no odor, ns.

DOLO: crm, micro-fn xtal, silty/sndy, min dk green min, wht/crm chert, some chalky, ppt in-xtal por, no odor, ns.

DOLO: as above, no odor, ns.

DOLO: crm/tan/lt brn, micro-fn xtal, silty/sndy, min dk green min, wht/crm chert, some chalky, ppt-med in-xtal por, no odor, ns.

LS: tan/lt brn, micro-fn xtal, silty, some dense ool pcs, no vis por, no odor, ns.

DOLO: crm/lt brn, micro-fn xtal, silty/sndy, abund wht/crm/gry chert, some frac por, no odor, ns.

DOLO: as above w/increase in wht/crm/tan/lt yel chert, no odor ns.

DOLO and abund chert as above, no odor, ns.

DOLO: wht/crm/tan/lt brn, micro-fn xtal, silty/sndy, abund wht/crm/tan/lt yel chert, ppt-fn in-xtal por, no odor, ns.

LS: lt gryish wht, micro-fn xtal, vry silty/sndy, some frac por, no odor, ns. Cont flood of chert.

LS: crm/lt-med brn, micro-med xtal, foss frags/dense ool, some silty/sndy, flood of lt chert w/some dk gry, no vis por, no odor, ns.

LS: crm/tan, micro-med xtal, min foss frags w/abund ool pcs, some silty/sndy, some chalky, abund wht/crm/lt gry chert, some frac por, no odor, ns. Some SH: lt-dk gry/dk maroon/dk brn, some silty, carb, firm (assume sluff from above).

LS: wht/crm/lt-med brn, micro-med xtal, abund ool, some silty/sndy, some chalky, abund wht/crm chert, some frac por, no odor, ns. Cont SH as above.

LS: wht/crm/lt brn, micro-med xtal, few abund ool pcs, some chalky, some silty/sndy, abund wht/crm/lt gry chert, some frac por, no odor, ns. Cont SH as above.

TD at 4660'.

30" #60"

Mudco Check #7 @ 4481'
12/15/14 01:05pm
wt vis pH chl
9.4 52 8.5 5300
Filt LCM
8.0 tr

DST3) 4396-4480
Mississippian
3045/6090
1st) weak blow built to 2.25", no BB.
2nd) weak surface blw built to 1 1/4", no BB.
IFP 15-39#
ISIP 746#
FFP 33-41#
FSIP 691#
HP 2144-2133#
Recvd: 5' O, 63' OCM (10%/O).

DST4) 4468-4492
Mississippian
3030/3030
1st) weak surface blow built to 3/4", no BB.
2nd) no blow, no BB.
IFP 12-21#
ISIP 978#
FFP 18-21#
FSIP 861#
HP 2200-2178#
Recvd: 25' mud w/oil spots.

Mudco Check #8 @ 4660'
12/16/14 12:30pm
wt vis pH chl
9.4 53 10.5 3400
Filt LCM
8.4 1

CFS @ 4660' 30" #60". Cir total of 1.5 hrs to clean hole prior to logging.

RTD 4660', -2173
LTD 4660', -2173

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067259

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

SERVICE POINT: Great Bend

DATE <u>12-9-14</u>	SEC. <u>4</u>	TWP. <u>17</u>	RANGE <u>74</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 PM</u>	JOB FINISH <u>6:00 AM</u>
LEASE <u>Stevie</u>		WELL # <u>1-4</u>		LOCATION <u>Alameda West to W Rd - 800</u>		COUNTY <u>WESS</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>2 1/2 Nino</u>			

CONTRACTOR Duke 4

OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/4 TD _____

CEMENT AMOUNT ORDERED 150 sk class "A" Common
3.6 sk 7 1/4

CASING SIZE 5 1/2 DEPTH 271.5

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 FT

COMMON	<u>150</u>	@	_____
POZMIX	_____	@	_____
GEL	<u>282</u>	@	_____
CHLORIDE	<u>423</u>	@	_____
ASC	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____
_____	_____	@	_____

PERES _____

DISPLACEMENT 13.12 bbl H2O

TOTAL

DISCOUNT _____%

REMARKS:

In location - Rig up - had safety man
run 12 1/4 casing - break circ
pump is bbl H2O
mix 150 sk class A 3 sk 7 1/4
wrap plug
displace 13.12 bbl H2O
shot in
Cement did circ - Rig down

SERVICE

HANDLING	_____	@	_____
MILEAGE	_____	@	_____
DEPTH OF JOB	<u>221</u>		_____
PUMP TRUCK CHARGE	_____		_____
EXTRA FOOTAGE	_____	@	_____
HV MILEAGE	<u>20</u>	@	_____
LV MILEAGE	<u>20</u>	@	_____
_____	_____	@	_____
_____	_____	@	_____

TOTAL

DISCOUNT _____%

CHARGE TO: Grand Mesa

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>Wooden plug</u>	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

TOTAL

DISCOUNT _____%

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.

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

NET TOTAL _____ IF PAID IN 30 DAYS

PRINTED NAME Rich Wheeler

SIGNATURE Rich Wheeler

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067269

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

SERVICE POINT: ErutBeed

DATE <u>12-16-14</u>	SEC. <u>4</u>	TWP. <u>17</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30 PM</u>	JOB FINISH <u>1:30 AM</u>
LEASE <u>Spec</u>	WELL # <u>1-4</u>	LOCATION <u>Nessaty 10 2 1/2 in</u>			COUNTY <u>Woods</u>	STATE <u>TX</u>	
OLD OR NEW (Circle one)							

CONTRACTOR Duke H
TYPE OF JOB Repair plug
HOLE SIZE 7 7/8 T.D.
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 18.30
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. All
PERFS.
DISPLACEMENT H70

OWNER
CEMENT AMOUNT ORDERED 280 sx 40/H0 4% gel
VAF10
COMMON @
POZMIX @
GEL @
CHLORIDE @
ASC @
280 sx 60/40+4 @
70 @
@
@
@
@
@
@
@

EQUIPMENT
PUMP TRUCK CEMENTER Josh Israel
398 HELPER Ben Marshall
BULK TRUCK
610-170 DRIVER Jesse Tracheta
BULK TRUCK
DRIVER

REMARKS:
#1 - 18.30 - 50 sx
#2 - 10.50 - 30
#3 - 500 - 50
#4 - 240 - 50
#5 - 60 - 70
Ril - 30 sx
plug down
Rig down

CHARGE TO: Erandmusa
STREET
CITY STATE ZIP

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 X Rich Wheeler
SIGNATURE X Rich Wheeler

TOTAL
DISCOUNT %
SERVICE
HANDLING @
MILEAGE
DEPTH OF JOB 18.30
PUMP TRUCK CHARGE
EXTRA FOOTAGE @
HV MILEAGE 20 @
LV MILEAGE 20 @
@
@
TOTAL
DISCOUNT %

PLUG & FLOAT EQUIPMENT
@
@
@
@
@
TOTAL
DISCOUNT %

SALES TAX (If Any)
TOTAL CHARGES
DISCOUNT IF PAID IN 30 DAYS
NET TOTAL IF PAID IN 30 DAYS