Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1110937

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 # 9855
Name: Grand Mesa Operating Company
Address 1: 1700 N WATERFRONT PKWY BLDG 600
Address 2:
City: WICHITA State: KS Zip: 67206 + 5514
Contact Person: Ronald N. Sinclair
Phone: (316) 265-3000
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: John Goldsmith
Purchaser: None

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 #:

11/26/2012	12/06/2012	12/06/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-22062-00-00
Spot Description:
NW SE NW NW Sec. 26 Twp. 13 S. R. 31 ☐ East ☑ West
909 Feet from ☑ North / ☐ South Line of Section
793 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Gove
Lease Name: Phillip Well #: 4-26
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 2871 Kelly Bushing: 2876
Total Vertical Depth: 4643 Plug Back Total Depth: 4305
Amount of Surface Pipe Set and Cemented at: 220 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 2365 Feet
If Alternate II completion, cement circulated from: 2365
feet depth to: 0 w/ 225 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 11000 ppm Fluid volume: 800 bbls
Dewatering method used: Evaporated
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: 02/05/2013
☑ **Confidential Release Date:** 02/05/2015
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** NAOMI JAMES **Date:** 02/06/2013

1110937

Operator Name: Grand Mesa Operating Company Lease Name: Phillip Well #: 4-26

Sec. 26 Twp. 13 S. R. 31 ☐ East ☑ West County: Gove

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name: Attached Top: Attached Datum: Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	24	220	Common	165	3%CC; 2%Gel
Production	7.875	5.50	15.5	4315	EA-2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☑ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	0-2365	SMD	225	
	-			

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 *(Amount and Kind of Material Used)*	Depth
4	4185-4189	250gals. 15% RWR-1 w/additives	4185-4189
4	4161-4165	500gals. 15% RWR-1 w/additives	4161-4165
		100sxs Standard cement-squeeze	4161-65'; 4185-89'
4	4185-4189	250gals. 15% RWR-1 w/additives	4185-4189

TUBING RECORD: Size: 2.875 Set At: 4140 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: ☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Phillip 4-26
Doc ID	1110937

All Electric Logs Run

CPDCN Micro Log
AI Shallow Focused Elect. Log
Microresistivity Log
Dual Receiver Cement Bond Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	Phillip 4-26
Doc ID	1110937

Tops

Name	Top	Datum
Stone Corral	2351	+525
Bs/Stone Corral	2380	+496
Heebner	3892	-1016
Lansing	3935	-1059
Muncie Creek	4089	-1213
Stark	4177	-1301
Marmaton	4283	-1407
Excello	4436	-1560
Mississippian	4555	-1679
LTD	4642	

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M437**
Well Name	**PHILLIP #4-26**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#1 4174-4197 "K"**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.26-13S-31W GOVE CO.KS.**	**Report Date**	**2012/12/02**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#1 4174-4197 "K"**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2012/12/02**	**Start Test Time**	**00:00:00**
Final Test Date	**2012/12/02**	**Final Test Time**	**08:15:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**E1150**
Gauge Serial Number	

Test Results

Remarks **RECOVERED:**

339' MW 75% WTR, 25% MUD W/ A FEW SPECKS OF OIL ON TOP (220' DP, 119' DC)

339' TOTAL FLUID

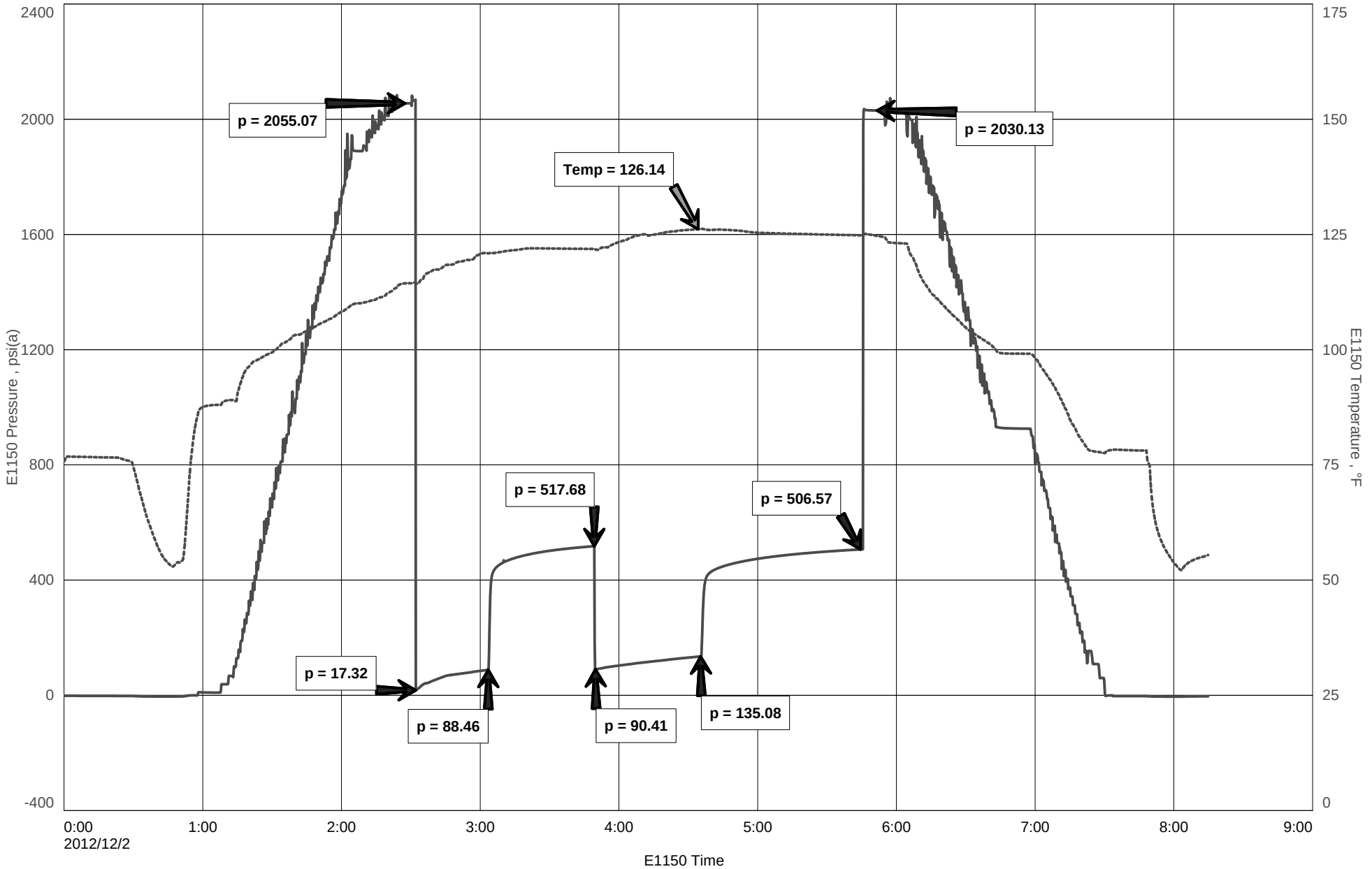
CHLOR: 31,000 PPM
PH:7.0
RW: .32 @ 48 DEG

TOOL SAMPLE: 100% WTR W/ SOME SPECKS OF OIL

GRAND MESA OPERATING COMPANY
DST#1 4174-4197 "K"
Start Test Date: 2012/12/02
Final Test Date: 2012/12/02

PHILLIP #4-26
Formation: DST#1 4174-4197 "K"
Pool: WILDCAT
Job Number: M437

PHILLIP #4-26



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PHLLP4-26DST

TIME ON: 0000
TIME OFF: 0815

Company GRAND MESA OPERATING COMPANY Lease & Well No. PHILLIP #4-26

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 2876 KB Formation "K" Effective Pay Ft. Ticket No. M437

Date 12/2/2012 Sec. 26 Twp. 13 S Range 31 W County GOVE State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4174 ft. to 4197 ft. Total Depth 4197 ft.

Packer Depth 4169 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4174 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4176 ft. Recorder Number E1150 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4194 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type CHEM Viscosity 54 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,000 P.P.M. Drill Pipe Length 4028 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 23 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: SSB INC TO 2" IN 15 MIN BEFORE DIMINISHING T0 <1½" @ SHUT IN (NO BB)

2nd Open: AFTER 45 SEC. A VWSB INC TO 1" (NO BB)

Recovered 339 ft. of MW 75% WTR, 25% MUD W/ A FEW SPECKS OF OIL ON TOP (220' DP, 119' DC)

Recovered 339 ft. of TOTAL FLUID

Recovered ft. of

Recovered ft. of

Recovered ft. of RW: .32 @ 48°

Recovered ft. of PH:7.0

Remarks: CHLOR: 31,000 PPM

TOOL SAMPLE: 100% WTR W/ SOME SPECKS OF OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 2:30 A.M. A.M. P.M. Time Started Off Bottom 5:30 A.M. A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure..... (A) 2055 P.S.I.

Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 88 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 518 P.S.I.

Final Flow Period..... Minutes 45 (E) 90 P.S.I. to (F) 135 P.S.I.

Final Closed In Period.....Minutes 60 (G) 507 P.S.I.

Final Hydrostatic Pressure..... (H) 2030 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M438**
Well Name	**PHILLIP #4-26**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#2 4398-4432 FT.SCOTT**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.26-13S-31W GOVE CO.KS.**	**Report Date**	**2012/12/03**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#2 4398-4432 FT.SCOTT**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2012/12/03**	**Start Test Time**	**11:10:00**
Final Test Date	**2012/12/03**	**Final Test Time**	**17:00:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**E1150**
Gauge Serial Number	

Test Results

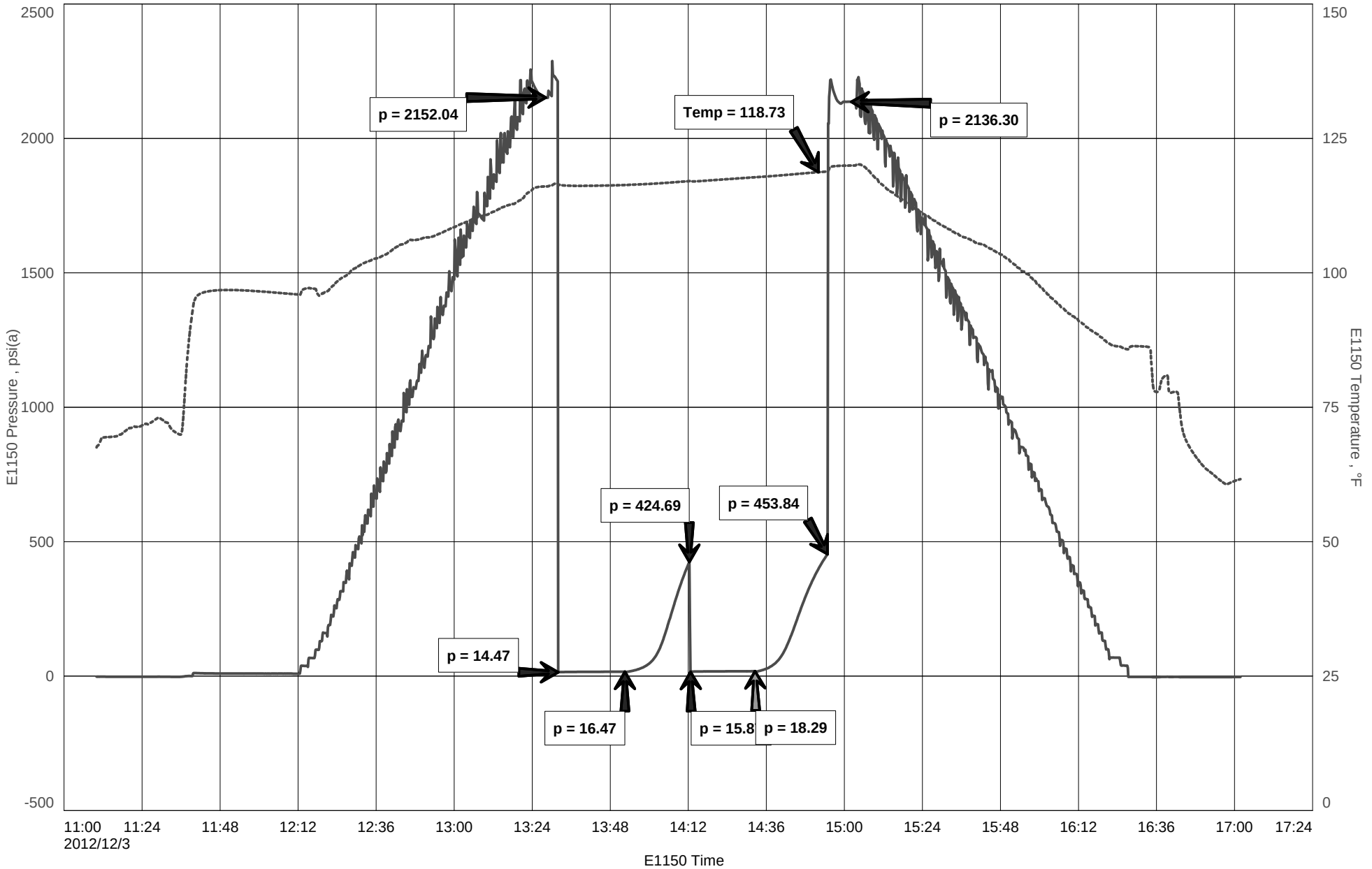
Remarks **RECOVERED:**
~1' DM 100% MUD
~1' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ A FEW SPOTS OF OIL

GRAND MESA OPERATING COMPANY
DST#2 4398-4432 FT.SCOTT
Start Test Date: 2012/12/03
Final Test Date: 2012/12/03

PHILLIP #4-26
Formation: DST#2 4398-4432 FT.SCOTT
Pool: WILDCAT
Job Number: M438

PHILLIP #4-26



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PHLLP4-26DST2

TIME ON: 1110
TIME OFF: 1700

Company GRAND MESA OPERATING COMPANY Lease & Well No. PHILLIP #4-26

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 2876 KB Formation FT.SCOTT Effective Pay _____ Ft. Ticket No. M438

Date 12/3/2012 Sec. 26 Twp. 13 S Range 31 W County GOVE State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 4398 ft. to 4432 ft. Total Depth 4432 ft.

Packer Depth 4393 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4398 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4400 ft. Recorder Number E1150 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4429 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 52 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 2,400 P.P.M. Drill Pipe Length 4252 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 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: A FEW BUBBLES ON TOOL OPEN THEN NO BLOW (NO BB)

2nd Open: NO BLOW (NO BB)

Recovered ~1 ft. of DM 100% MUD

Recovered ~1 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: 100% MUD W/ A FEW SPOTS OF OIL

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 1:30 P.M. A.M. P.M. Time Started Off Bottom 2:50 P.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure ..... (A) 2152 P.S.I.

Initial Flow Period ..... Minutes 20 (B) 14 P.S.I. to (C) 16 P.S.I.

Initial Closed In Period ..... Minutes 20 (D) 425 P.S.I.

Final Flow Period ..... Minutes 20 (E) 16 P.S.I. to (F) 18 P.S.I.

Final Closed In Period ..... Minutes 20 (G) 454 P.S.I.

Final Hydrostatic Pressure ..... (H) 2136 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	**GRAND MESA OPERATING COMPANY**	**Job Number**	**M439**
Well Name	**PHILLIP #4-26**	**Representative**	**MIKE COCHRAN**
Unique Well ID	**DST#3 4490-4538 JOHNSON**	**Well Operator**	**GRAND MESA OPERATING COMPANY**
Surface Location	**SEC.26-13S-31W GOVE CO.KS.**	**Report Date**	**2012/12/04**
Field	**WILDCAT**	**Prepared By**	**MIKE COCHRAN**
Well Type	**Vertical**	**Qualified By**	**JOHN GOLDSMITH**
		Test Unit	**NO. 1**

Test Information

Test Type	**CONVENTIONAL**
Formation	**DST#3 4490-4538 JOHNSON**
Test Purpose (AEUB)	**Initial Test**

Start Test Date	**2012/12/04**	**Start Test Time**	**11:55:00**
Final Test Date	**2012/12/04**	**Final Test Time**	**17:50:00**
		Well Fluid Type	**01 Oil**

Gauge Name	**E1150**
Gauge Serial Number	

Test Results

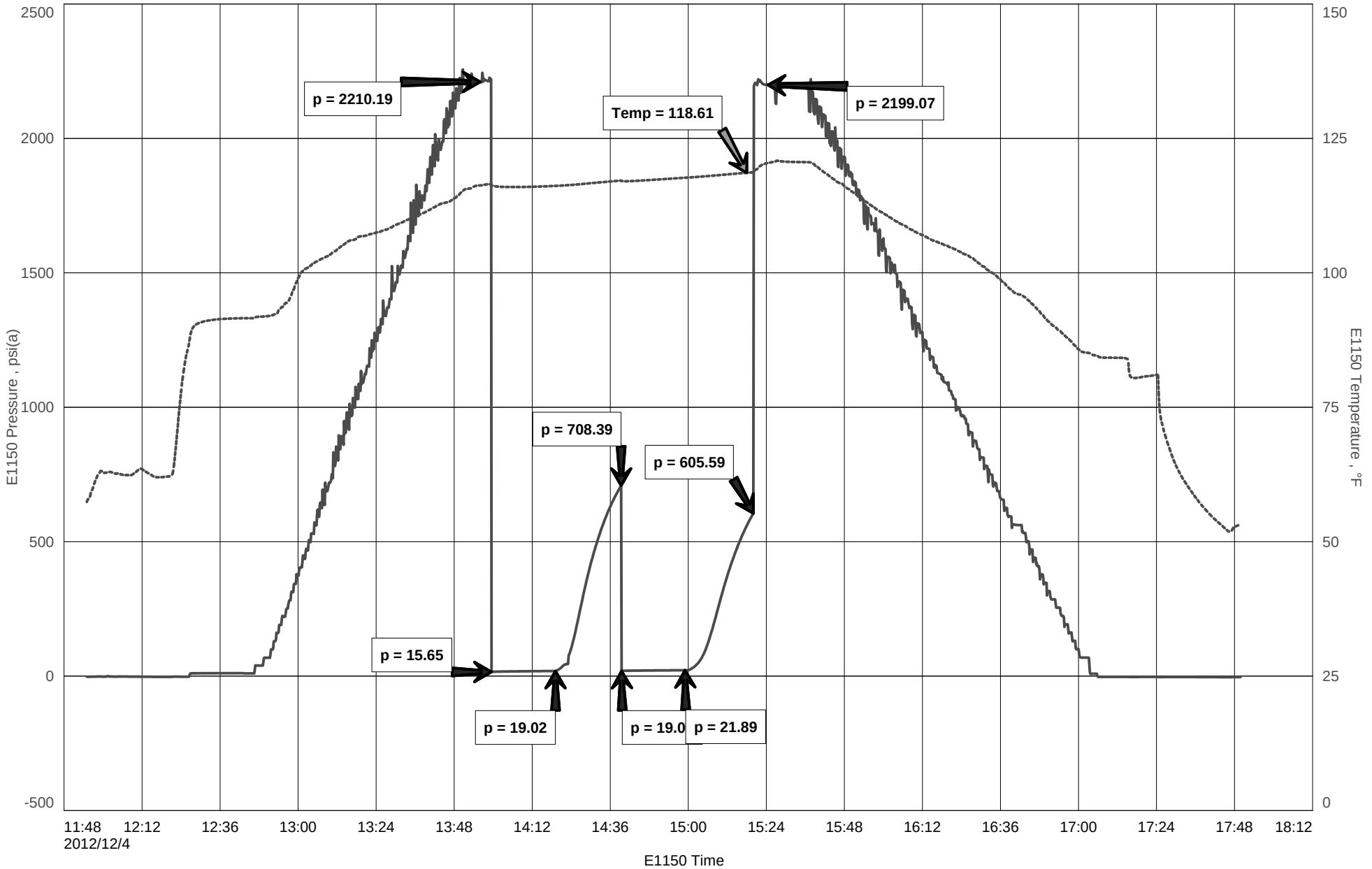
Remarks **RECOVERED:**
<2' DM 100% MUD
<2' TOTAL FLUID

TOOL SAMPLE: DRLG MUD W/ A (1) SPOT OF OIL & SLIGHT GASSY ODOR

GRAND MESA OPERATING COMPANY
DST#3 4490-4538 JOHNSON
Start Test Date: 2012/12/04
Final Test Date: 2012/12/04

PHILLIP #4-26
Formation: DST#3 4490-4538 JOHNSON
Pool: WILDCAT
Job Number: M439

PHILLIP #4-26



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL-STEM TEST TICKET
FILE: PHLLP4-26DST3

TIME ON: 1155
TIME OFF: 1750

Company GRAND MESA OPERATING COMPANY Lease & Well No. PHILLIP #4-26

Contractor MURPHIN 24 Charge to GRAND MESA OPERATING COMPANY

Elevation 2876 KB Formation JOHNSON Effective Pay _____ Ft. Ticket No. M439

Date 12/4/2012 Sec. 26 Twp. 13 S Range 31 W County GOVE State KANSAS

Test Approved By JOHN GOLDSMITH Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 4490 ft. to 4538 ft. Total Depth 4538 ft.

Packer Depth 4485 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Packer Depth 4490 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4492 ft. Recorder Number E1150 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4535 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 51 Drill Collar Length 119 ft. I.D. 2 1/4 in.

Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 3,000 P.P.M. Drill Pipe Length 4344 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 48 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 31'D.P. 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: VWSB INC TO ¼" THEN DIED (NO BB)

2nd Open: NO BLOW (NO BB)

Recovered <2 ft. of DM 100% MUD

Recovered <2 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

TOOL SAMPLE: DRLG MUD W/ A (1) SPOT OF OIL & SLIGHT GASSY ODOR

Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 2:00 P.M. A.M. P.M. Time Started Off Bottom 3:20 P.M. A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure ..... (A) 2210 P.S.I.

Initial Flow Period ..... Minutes 20 (B) 16 P.S.I. to (C) 19 P.S.I.

Initial Closed In Period ..... Minutes 20 (D) 708 P.S.I.

Final Flow Period ..... Minutes 20 (E) 19 P.S.I. to (F) 22 P.S.I.

Final Closed In Period ..... Minutes 20 (G) 606 P.S.I.

Final Hydrostatic Pressure ..... (H) 2199 P.S.I.

John Goldsmith Wellsite Service

Cell and Home Phone:
316-640-0236

427 Roosevelt St.
Cheney, KS 67025

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

Well Name: #4-26 Phillip
Location: 909' FNL, 793' FWL, SECTION 26-13S-31W
License Number: API: 15-063-22062
Region: Gove County
Spud Date: 11/26/2012
Drilling Completed: 12/5/2012
Surface Coordinates: LAT 38.9002357
LONG -100.7390946
Bottom Hole Coordinates: Vertical hole

Ground Elevation (ft): 2871'
K.B. Elevation (ft): 2876'
Logged Interval (ft): 3500' To: RTD
Total Depth (ft): 4643'
Formation: Mississippian at RTD
Type of Drilling Fluid: Chemical

OPERATOR

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

GEOLOGIST

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

COMMENTS

Contractor: Mufin Rig #24
Pusher: Tony Martin
Surface Casing: 5 joints of 8 5/8" set at 220'
Production Casing: 5.5" Production Casing was Installed.
Mud by: MudCo
DST's by: Diamond Testing
Logs by: Superior Well Services (DIL, CN-CD, ML)
RTD=4643'
LTD=4642'

FORMATION TOPS

FORMATION	SAMPLE TOPS Depth	SAMPLE TOPS Datum	LOG TOPS Depth	LOG TOPS Datum
Queen Hill	3831'	-955	3829'	-953
Heebner Shale	3894'	-1018	3892'	-1016
Toronto	3917'	-1041	3917'	-1041
Lansing	3936'	-1060	3936'	-1060
Muncie Creek Shale	4088'	-1212	4088'	-1212
Stark Shale	4176'	-1300	4175'	-1299
Hushpuckney Shale	4215'	-1339	4214'	-1338
Base of KC	4247'	-1371	4246'	-1370
Marmaton	4284'	-1408	4284'	-1408
Little Osage Shale	4405'	-1529	4406'	-1530
Excello Shale	4436'	-1560	4434'	-1558
Cherokee Shale	4470'	-1594	4468'	-1592
Johnson Zone	4518'	-1642	4516'	-1640
Morrow	4534'	-1658	4533'	-1657
Mississippian	4565'	-1689	4564'	-1688
RTD	4643'	-1769		
LTD			4642'	-1768

DSTs

DST #1 "K Zone" 12-02-2012 4174'-4197' 30-45-45-60
1st Open = Surface Blow Built to 2" in 15 min, Then Slowed to 1.5 " in (No Blow Back)
2nd Open = Very Weak Surface Blow (No Blow Back)
IFP = 17-88# ISIP = 518# FFP = 90-135# FSIP = 507#
HYDP = 2055-2030#
339' Total Fluid 339' Water (25% Mud, few Oil specs)

DST #2 "Ft Scott" 12-03-2012 4398'-4432' 20-20-20-20
1st Open = Few Bubbles on Tool Open, Then No Blow (No Blow Back)
2nd Open = No Blow (No Blow Back)
IFP = 14-16# ISIP = 425# FFP = 16-18# FSIP = 454#
HYDP = 2152-2136#
1' Total Fluid 1' Mud (Few Oil specs on Tool)

DST #3 "Johnson" 12-04-2012 4490'-4538' 20-20-20-20
1st Open = Very Weak Surface Blow Built to 1/4" Then Died (No Blow Back)
2nd Open = No Blow (No Blow Back)
IFP = 16-19# ISIP = 708# FFP = 19-22# FSIP = 606#
HYDP = 2210-2199#
2' Total Fluid 2' Mud (Few Oil specs on Tool)

ROCK TYPES

Anhy, Cht, Coal, Congl, Dol, Gyp, Lmst, Salt, Shale, Shcol, Shgy, Sltst, Ss, Carb sh, Dol, Dtd, Gry sh, Sandylms, Shale, Sltstn, Shlyslts, Sltysh, Sdy dolo, Silty dolo, Shy dolo, Shaly ls

ACCESSORIES

FOSSIL: Algae, Amph, Belm, Bioclst, Brach, Bryozoa, Cephal, Coral, Crin, Echin, Fish, Foram, Fossil, Gastro, Oolite, Ostra, Pelec, Pellet, Pisolite, Plant, Strom, Fuss, Oomold

MINERAL: Anhy, Arggrn, Arg, Bent, Bit, Brecfrag, Calc, Carb, Chtdk, Chtlt, Dol, Feldspar, Ferrpel, Ferr, Glau, Gyp, Hvymin, Kaol, Marl, Minxl, Nodule, Phos, Pyr, Salt, Sandy, Silt, Sil, Sulphur, Tuff, Chlorite, Dol, Sand, Slty

STRINGER: Anhy, Arg, Bent, Coal, Dol, Gyp, Ls, Mrst, Sltstrg, Ssstrg, Carbsh, Clystn, Dol, Grysh, Gryslt, Lms, Sandylms, Sh, Sltstn

ROP	Depth	Lithology	CFS Point	Oil Shows	Geological Descriptions	Remarks

Morning Report Depth/Activity

11/26/2012, Spud
11/27/12, drill @ 220'
11/28/12, drill @ 2260'
11/29/12, drill @ 3230'
11/30/12, drill @ 3790'
12/01/12, drill @ 4090'
12/02/12, drill @ 4297' (DST #1)
12/03/12, drill @ 4425' (DST #2)
12/04/12, drill @ 4538' (DST #3)
12/05/12, drill @ 4630' (Logging)

ROP Data begin @ 3600' on 11/29/2012

Drilling Samples began @ 3800' on 11/30/2012

LS: gry/tan, fn xln, fw foss frags, sm v ool, mostly dense, sm chlky, fw brittle, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: gry/tan, fn xln, fw foss frags, mostly dense, sm chlky, sm brittle, tr-nvp, sm pcs pur chlk, v fw SH: gry/brn, easy-med crush, no cup odr, ns.

LS: gry/tan, fn xln, fw foss frags, mostly dense, sm chlky, sm brittle, tr-nvp, fw pcs pur chlk, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

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

LS: gry/lt tan, fn xln, sm foss frags, mostly dense, sm chlky, sm brittle, fw pcs w/ tr/? intxln por, svrl pcs pur chlk, fw Chert: wht, sharp, no cup odr, ns.

LS: lt gry/lt tan, fn xln, sm foss frags, mostly dense, sm chlky, fw brittle, tr-nvp, fw pcs pur chlk, fw SH: gry/brn, silty, no cup odr, ns.

LS: gry/tan, fn xln, foss crin/frags, sm v ool, mostly dense, sm fw brittle, sm chlky, tr-nvp, svrl pcs pur chlk, fw SH: gry/drk gry, silty, easy-med crush, no cup odr, ns.

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

LS: gry/lt tan, fn xln, mostly dense, sm chlky, fw brittle, fw flakey/mealy, tr-nvp, fw Chert: wht, sharp, svrl SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, fw mott, fw foss brach/frags, sm chlky, sm brittle, fw flakey/mealy, tr/? intxln por in sm, svrl SH: gry/brn/blk, silty, fw fissile, fw carb, no cup odr, ns.

LS: tan/gry, fn xln, fw foss frags, mostly dense, sm chlky, sm brittle, tr-nvp, fw pcs w/ drk stns, no cut/fluor, svrl SH: gry/brn, silty, no cup odr, ns.

LS: gry/tan, fn xln, sm foss crin/frags, mostly dense, sm chlky, sm brittle, fw pcs w/ pr scat ppt-intxln por, fw SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt tan, fn xln, sm foss brach/crin/frags, mostly dense, sm fw chlky, tr-nvp, fw Chert wht/opaque, sharp, foss, no cup odr, ns.

LS: tan/gry, fn xln, sm foss crin/frags, mostly dense, sm chlky, tr-nvp, fw pcs w/ drk stns, no cut/fluor, svrl SH: gry/brn/grn, silty, sm waxy, no cup odr, ns.

LS: tan/lt gry, micro-fn xln, mostly dense, sm chlky, sm brittle, tr/? ppt-intxln por if fw pcs, fw Chert: wht, sharp, fw SH: gry/brn, silty, no cup odr, ns.

LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw flakey/mealy, tr-nvp, fw pcs pur chlk, fw SH: brn, silty, fw fissile, no cup odr, ns.

LS: tan/lt gry, fn xln, mostly dense, sm brittle, fw chlky, tr-nvp, fw pcs LS: lt tan, fn xln, profus ool, sm fr-gd intool por, fr sfo, strm cut pal blu, wk/? cup odr.

LS: lt tan/lt gry, fn xln, mostly dense, sm brittle, fw chlky, tr-nvp, fw pcs LS: lt tan, fn xln, profus ool, fr-gd intool por, fr sfo, 6-8 pcs/try, strm cut, wk cup odr.

LS: tan/lt tan, fn xln, mostly dense, sm chlky, fw pcs profus ool, fw pcs w/ pr-fr intool por, fw pcs w/ ssfo, strm cut, no cup odr, ns.

LS: tan/lt gry, fn xln, v fw foss frags, mostly dense, sm chlky, sm brittle, tr-nvp, fw SH: gry/brn, silty, fw fissile, no cup odr, ns.

LS: lt tan, micro-fn xln, mostly dense, sm chlky, sm brittle, fw flakey/mealy, fw pcs w/ scat pr vug por, sm SH: gry/grn/brn, silty, no cup odr, ns.

LS: lt tan/lt gry, fn xln, mostly dense, fw pcs profus ool, fw hard, v fw pcs w/ pr-fr intool por, w/ vssfo 2-3 pcs/try, no cup odr.

LS: lt tan/lt gry, fn xln, mostly dense, fw pcs ool, fw pcs hard, tr-nvp, svrl pcs SH: gry/grn/brn, silty, sm waxy, no cup odr, ns.

LS: gry/lt tan brn, fw mott, fn-crs xln, sm dense, sm hard, fw flakey/mealy, fw brittle, tr-nvp, svrl SH: gry/brn, silty, med crush, no cup odr, ns.

LS: tan/gry, fw mott, fn-crs xln, sm dense, fw flakey/mealy, fw chlky/brittle, tr-nvp, fw SH: gry/brn/grn, silty, med crush, no cup odr, ns.

LS: lt gry/tan, fn xln, mostly dense, sm flakey/mealy, fw chlky, fw brittle, tr-nvp, svrl SH: gry/grn/brn, silty, fw fissile, fw waxy, easy-med crush, no cup odr, ns.

LS: tan/lt gry, fn xln, mostly dense, fw flakey/mealy, fw chlky/brittle, tr-nvp, svrl SH: gry/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

LS: lt tan/lt gry, micro-fn xln, mostly dense, sm brittle, fw chlky, v fw foss frags, tr-nvp, svrl SH: gry/brn, silty, no cup odr, ns.

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

LS: lt tan/gry, fn xln, sm dense, fw flakey/mealy, fw brittle, sm chlky, tr-nvp, sm SH: gry/brn/grn, silty, sm soft, no cup odr, ns.

SH: gry/grn/brn/blk, silty, fw fissile, sm waxy, fw carb, mostly easy-med crush, no cup odr, ns.

LS: tan/gry, sm mott, fn xln, sm dense, fw flakey/mealy, fw chlky/brittle, tr/? intxln por in fw pcs, abund SH: gry/grn/brn, silty, soft, wk/? cup odr, ns.

LS: lt tan, micro-fn xln, v fw foss frags, mostly dense, semi-uniform, sm brittle, tr-nvp, sm SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: tan/lt tan, fn xln, mostly dense, fw chlky/brittle, tr/? intxln por in sm, fw SH: gry/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

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

LS: lt tan/lt gry, fn xln, mostly dense, 1-2 pcs profus ool, pr intool por, vssfo, cut pal blu, no cup odr, svrl SH: gry/brn/grn, silty, sm waxy, fw fissile.

LS: tan/lt tan, fn xln, mostly dense, fw pcs chlky/brittle, fw pcs profus ool w/ dense mtrx, tr-nvp, svrl SH: gry/brn, silty, no cup odr, ns.

LS: tan/gry, fn xln, sm dense, fw pcs flakey/mealy, sm chlky, tr/? intxln por in sm, fw pcs pur chlk, svrl SH: gry/brn, silty, sm fissile, med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, fw foss frags, sm dense, mostly brittle, fw chlky, sm pr-fr intxln por, fw SH: gry/brn, silty, fm fissile, med crush, no cup odr, ns.

LS: lt gry/lt tan, fn xln, fw foss frags in sm, sm dense, mostly brittle, fw chlky, tr-nvp, svrl SH: gry/brn/blk, silty, sm fissile, fw carb, no cup odr, ns.

LS: tan/gry, fn xln, mostly dense, fw flakey/mealy, fw chlky, sm brittle, fw pcs w/ pr vug por, abund SH: gry/brn, silty, sm fissile, easy-med crush, strng sul odr, ns.

LS: tan/gry, fn xln, mostly dense, fw flakey/mealy, sm chlky, 1-2 pcs profus ool, fr intool por, ssfo, strng sul odr, abund (90%) SH: gry/brn/grn.

LS: gry/lt tan, fn xln, fw foss gast/brach/frags, sm dense, sm flaky/mealy, fw chlky/brittle, tr-nvp, fw SH: gry/brn, silty, sm fissile, med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, sm flakey/mealy, fw hard, sm chlky/brittle, tr-nvp, svrl SH: gry/brn/grn/blk, silty, sm fissile, fw waxy, fw carb, no cup odr, ns.

LS: tan/lt tan, fn xln, fw foss brach/frags, sm dense, sm chlky/brittle, tr-nvp, fw Chert: wht/smoke, sharp, abund SH: gry/brn/blk, silty, fw carb, no cup odr, n.s

LS: tan/gry, fn xln, fw foss crin/frags, mostly dense, sm chlky, fw flakey/mealy, tr-nvp, fw Chert wht/smoke, sharp, fw SH: gry/brn, silty, easy-med crush, no cup odr, ns.

LS: tan/gry, fn xln, v fw foss frags, sm dense, sm chlky/brittle, v fw flakey/mealy, tr-nvp, svrl SH: gry/brn/grn, silty, fw waxy, no cup odr, ns.

LS: gry/lt tan, fn xln, mostly dense, sm chlky/brittle, fw pcs flakey/mealy, tr-nvp, abund SH: gry/brn, silty, easy-med crush, no cup odr, ns.

SH: gry/brn/grn, silty, sm fissile, fw waxy, easy-med crush, fw SltStn: gry/brn, soft, sm muddy, v fw LS: gry/tan, fn xln, sm brittle, tr-nvp, no cup odr, ns.

SH: gry/brn/grn, silty, fw fissile, sm waxy, easy-med crush, fw SltStn: gry/tan, sm v soft, fw muddy, fw SS: gry/brn, v fn grn, arg, fw muddy, easy-med crush, no cup odr, ns.

LS: gry/lt tan, fn xln, sm dense, fw pcs flakey/mealy, sm brittle, fw pcs chlky, tr-nvp, fw SH: gry/brn, silty, sm fissile, easy-med crush, no cup odr, ns.

LS: tan/gry, fn-crs xln, sm dense, fw flakey/mealy, sm brittle/friable, tr-nvp, fw SH: gry/grn, silty, sm waxy, med crush, no cup odr, ns.

LS: tan/gry, fw mott fn xln, mostly dense, sm flakey/mealy, fw pcs friable, tr-nvp, svrl SH: gry/brn/grn, silty, med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, sm dense, sm hard, fw flakey/mealy & friable, tr/? intxln por in sm, abund SH: gry/brn/blu, silty, med crush, no cup odr, ns.

LS: brn/tan, fn xln, sm sandy/gritty, mostly brittle, fw chlky, tr/? ppt-intxln por, svrl SH: brn/gry/grn, silty, sm gritty, med crush, no cup odr, ns.

LS: gry/tan, fw mott, fn xln, sm dense, sm flakey/mealy, sm hard, tr-nvp, fw SH: gry/grn, silty, fw waxy, med crush, no cup odr, ns.

LS: gry/tan, fn xln, fw foss frags, fw ool, mostly dense, sm flakey/mealy, sm hard, fw chlky, tr-nvp, fw pcs pur chlk, no cup odr, ns.

LS: lt gry/lt tan, fn xln, v fw foss frags, mostly dense, sm flakey/mealy, sm hard, fw chlky, tr-nvp, fw SH: gry/brn, silty, med crush, no cup odr, ns.

LS: lt gry/lt tan, fn xln, fw foss brach/frags, mostly dense, fw flakey/mealy, sm hard, fw chlky, tr-nvp, fw pcs pur chlk, fw SH: gry/grn, silty, no cup odr, ns.

LS: tan/lt gry, fn xln, v fw foss frags, mostly dense, sm flakey/mealy, fw hard, fw chlky, tr/? intxln por in sm, svrl SH: gry/grn, silty, fw fissile, no cup odr, ns.

LS: tan/lt tan, micro-fn xln, fw foss frags, mostly dense, sm brittle, mostly uniform, fw chlky, fw Chert: wht/opaque, sharp, sm foss, sm SH: gry/grn/drk gry, silty, fw waxy, no cup odr, ns.

LS: tan/lt gry, micro-fn xln, fw foss frags, mostly dense, sm brittle, v fw chlky, fw pcs w/ pr scat vug por in sm, fw Chert wht/smoke, sharp, sm SH: gry/brn, silty, no cup odr, ns.

SH: gry/brn/blk, silty, sm carb, sm fissile, med crush, fw gry/grn, tr-nvp, no cup odr, ns.

LS: tan, fn xln, fw foss brach/frags, sm dense, fw brittle, fw flakey/mealy, fw SH: gry/grn/brn/blk, silty, fw fissile, fw carb, no cup odr, ns.

LS: lt tan, fn xln, fw foss frags, mostly brittle, fw chlky, sm scat pr ppt-intxln por, 1-2 pcs w/ lght brn stns, wk dul yel fluor, no cut, sm Chert: wht/opaque, sharp, no/? cup odr, nsfo.

LS: tan/lt gry, fn xln, sm brittle, fw flakey/mealy, fw chlky, pr ppt-intxln por, 1 pcs w/ pos lght brn stn, wk/? fluor, no cut, fw SH: gry/brn, silty, fw fissile, no cup odr, ns.

SH: gry/brn/blk, silty, fw fissile, sm carb, no cup odr, ns.

LS: lt brn/gry, fw mott, fw foss brach/frags, sm dense, fw flakey/mealy, tr-nvp, fw Chert: wht, foss, sharp, no cup odr, ns.

LS: lt brn/gry, sm mott, foss crin/brach/frags, sm v ool, mostly dense, many hard, tr-nvp, fw Chert: wht/smoke, foss, sharp, svrl SH: gry/grn/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

LS: gry/lt tan, micro-fn xln, fw foss brach/frags, fw ool, mostly dense, sm chlky/brittle, tr-nvp, abund SH: gry/grn/brn/blk, silty, fw carb, no cup odr, ns.

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

LS: lt tan/tan, fn xln, mostly dense, sm chlky, semi-uniform, sm brittle, fw flakey/mealy, tr-nvp, fw Chert: gry/smoke, foss, sharp, no cup odr, ns.

LS: lt gry/tan, fn xln, fw foss crin/frags, mostly dense, fw flakey/mealy, sm brittle, fw chlky, tr-nvp, svrl SH: gry/brn/blk, silty, fw fissile, no cup odr, ns.

LS: lt gry/tan, fn-crs xln, v fw foss frags, sm dense, fw flakey/mealy, sm brittle/friable, tr-nvp, fw SH: gry/gry/brn, silty, fw fissile, med crush, no cup odr, ns.

LS: gry/tan, fn-crs xln, v fw foss frags, sm dense, fw flakey/mealy, most brittle, fw chlky, tr/? intxln por in sm pcs, fw SH: gry/brn, silty, fw fissile, med crush, no cup odr, ns.

LS: lt tan, fn xln, mostly brittle, 3-4 pcs w/ salt/pepper spotting, pr-fr fn intxln por w/ rare pr vug por, ssfo on break, fr-gd cup odr.

LS: lt gry/lt tan, fn xln, mostly brittle, 2-3 pcs w/ fn blk specs, ssfo on break, pr-fr fn intxln por, slght cup odr, abund SH: gry/brn, silty.

SH: gry/brn/olive, silty, sm waxy, fw gritty, easy-med crush, fw SltStn: gry/grn, v soft, fw muddy, no cup odr, ns.

SH: gry/grn, silty, easy-med crush, fw fissile, sm SltStn: gry/brn, soft, fw muddy lime, sm SS: wht/lt tan, fn grn, sub rnd, sm arg, sm limey, tr-pr intgrn por in sm, no fluor, no cut, no cup odr, ns.

LS: tan/lt tan, fn xln, sm profus ool, mostly dense, sm hard, fw flakey/mealy, tr-nvp, svrl pcs w/ drk min stns, no cut/fluor, fw Chert: tan, foss, scat vug por, no cup odr, nsfo.

LS: tan/lt tan, fn xln, mostly dense, fw pcs ool, sm hard, fw chlky/brittle, tr-nvp, sm SH: gry/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

LS: tan/lt tan, fn-crs xln, fw sandy/gritty, sm flakey/mealy, sm brittle, tr-nvp, fw pcs chlk, sm SH: gry/grn, silty, easy-med crush, no cup odr, ns.

LS: lt tan/crm, fn xln, mostly sandy/gritty, fw flakey/mealy, mostly brittle, tr/? intxln por, sm SH: gry/grn, silty, fw waxy, easy-med crush, no cup odr, ns.

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

LS: lt tan/crm, fn-crs xln, mostly sandy/gritty, fw dense, mostly brittle, fw chlky, tr-nvp, sm Chert wht/opaque, sharp, fw SH: gry/grn, silty, fw fissile, easy-med crush, no cup odr, ns.

LS: lt tan/tan, fn-crs xln, sm sandy/gritty, fw dense, sm ool/dense/hard, mostly brittle, tr-nvp, sm Chert: wht/gry, sharp, no cup odr, ns.

LS: lt tan/tan, fn-crs xln, mostly brittle, fw pcs dense/hard, fw pcs w/ son odr, tr-nvp, sm SH: gry/grn/brn, silty, fw fissile, easy-med crush, no cup odr, ns.

Remarks

Survey @ 220' = 3/4 Degree

AnHydrite 2354' (+522)

Mud-Co Check #1 @ 0'
11/24/12

B/AnHydrite 2383' (+493)

Mud-Co Check #2 @ 2200'
11/28/12 6:30am

wt	vis	pH	chl
9.2	29	7.0	300
Filt	LCM		
NC	Tr		

Mud-Co Check #3 @ 3235' 11/29/12
7:30am

wt	vis	pH	chl
9.2	30	7.0	24,000
Filt	LCM		
NC	Tr		

Survey @ 3603' = 1 Degree

Mud-Co Check #4 @ 3781' 11/30/12
6:00am

wt	vis	pH	chl
8.9	64	10.0	2,000
Filt	LCM		
8.8	3#		

Queen Hill SH 3831' (-955)

Heebner SH 3894' (-1018)

Toronto 3917' (-1041)

Lansing 3936' (-1060)

CFS @ 4020' (30"/60")

CFS @ 4020' (30"/60")

Muncie Creek SH 4088' (-1212)

Mud-Co Check #5 @ 4110' 12/01/12
10:30am

wt	vis	pH	chl
9.3	50	10.5	2,000
Filt	LCM		
6.4	2#		

CFS @ 4120' (30"/60")

CFS @ 4146' (30"/60")

DST #1 "K Zone" 12-02-2012
4174'-4197' 30-45-45-60
1st Open = Surface Blow Built to 2" in 15 min, Then Slowed to 1.5 " in (No Blow Back)
2nd Open = Very Weak Surface Blow (No Blow Back)
IFP = 17-88# ISIP = 518# FFP = 90-135# FSIP = 507#
HYDP = 2055-2030#
339' Total Fluid 339' Water (25% Mud, few Oil specs)

Stark SH 4176' (-1300)

Survey @ 4197' = 3/4 Degree

CFS @ 4197' (30"/60")

Hushpuckney SH: 4215' (-1339)

Mud-Co Check #6 @ 4197'
12/02/12 7:30am

wt	vis	pH	chl
9.2	50	11.0	3,000
Filt	LCM		
7.2	2#		

Base of KC 4247' (-1371)

Marmaton 4284' (-1408)

Altamont 4330' (-1454)

Pawnee 4360' (-1484)

Labette SH 4379' (-1503)

Mud-Co Check #7 @ 4424'
12/03/12 8:00am

wt	vis	pH	chl
9.2	52	10.0	2,400
Filt	LCM		
8.8	3#		

Little Osage SH 4405' (-1529)

CFS @ 4432' (30"/60")
Had to adjust the Geolograph 4ft.

Excello SH 4436' (-1560)

DST #2 "Ft Scott" 12-03-2012
4398'-4432' 20-20-20-20
1st Open = Few Bubbles on Tool Open, Then No Blow (No Blow Back)
2nd Open = No Blow (No Blow Back)
IFP = 14-16# ISIP = 425# FFP = 16-18# FSIP = 454#
HYDP = 2152-2136#
1' Total Fluid 1' Mud (Few Oil specs on Tool)

Cherokee SH 4470' (-1594)

DST #3 "Johnson" 12-04-2012
4490'-4538' 20-20-20-20
1st Open = Very Weak Surface Blow Built to 1/4" Then Died (No Blow Back)
2nd Open = No Blow (No Blow Back)
IFP = 16-19# ISIP = 708# FFP = 19-22# FSIP = 606#
HYDP = 2210-2199#
2' Total Fluid 2' Mud (Few Oil specs on Tool)

Johnson 4518' (-1642)

CFS @ 4522' (30"/60")

Morrow 4534' (-1658)

CFS @ 4538' (30"/60")

Mud-Co Check #8 @ 4525'
12/04/12 8:00am

wt	vis	pH	chl
9.2	51	10.5	3,000
Filt	LCM		
7.2	3#		

Mississippi 4565' (-1689)

CFS @ 4569' (30"/60")

Mud-Co Check #9 @ 4643'
12/05/12 8:00am

wt	vis	pH	chl
9.4	52	10.5	3,400
Filt	LCM		
8.8	3#		

CFS @ 4643' (30"/60")

Survey @ 4643' = 3/4 Degree

CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39174
LOCATION Oakley, KS
FOREMAN Kelly Gabel

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-26-12	3372	Phillip 41-26	26	13	31	Gove KS

CUSTOMER: Grand Mesa
MAILING ADDRESS:
CITY: STATE: ZIP CODE:

Oakley 11 E to Rd 16 South to RD 1E 5 E into

TRUCK #	DRIVER	TRUCK #	DRIVER
399	Tim O		
460	Jeremy		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220 CASING SIZE & WEIGHT 8 5/8 24#
CASING DEPTH 220 DRILL PIPE TUBING OTHER
SLURRY WEIGHT 14.8 SLURRY VOL WATER gal/sk CEMENT LEFT in CASING 20'
DISPLACEMENT 12 1/2 DISPLACEMENT PSI MIX PSI RATE

REMARKS: safety meeting, rigged up on Muffin #24, hooked up to circulate, mixed 165 sks com 3% cc 2% gel displaced with 12 1/2 bbl water. shut in.

cement did circulate

Approx 46 bbl to pit

Thank You
Kelly & Crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	20	MILEAGE	5.00	100.00
11045	165 sks	class A cement	17.65	2912.25
1102	465 #	calcium chloride	.89	413.85
11183	282 #	Bentonite	.25	70.50
5407	7.8 ton	Ton mileage delivery (min)	1.07	410.00
1111	100 #	salt		NC
				499.60
		Less 10% disc		49.96
				449.64
			SALES TAX	246.09
			ESTIMATED TOTAL	4738.53

Ravin 3737

10:30 PM
AUTHORIZTION Anthony Mark TITLE Pusher Rig #24 DATE 11-26-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

751874

JOB LOG

SWIFT Services, Inc.

DATE 12-6-12 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grand Mesa	4-26	Phillips	Cement Longstring	22947

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
12/5	2330							On loc - Float Equip
12/6	0045							Start 5 1/2" 15.5 #/ft csng - 4315'
								Insert float shoe w/ fill up
								L.D. Baffle - SJ - 10' @ 4305' = 102 1/2
								Cent - 2-4-6-8-10-12-46
								Cmt Baskets #3 & #7
								Port Collar #7 @ 2360'
								Drop fill up ball - 6 jts cmt
	0215							Fin run casing
	0320							Start circ
	0345							Fin circ
			8/5					Plug RH 30 sks / MH - 205 sks
		5	12				300	Pump 500 gal Mud Flush
		6	20				300	Pump 10 BBL KCl flush
		4 1/2					300	Start 100 sks EA-2 cmt
		4 1/2	20				400	Fin cmt.
								Wash out Pump & Lines
		9					400	Start Disp
		9	90				1000/500	Cement Lift
		6 1/2	95				600/500	Slow Rate
	0330						800/1500	Plug Down - Held - Released - Held
								Job Complete
								Wash up & Packup

Thanks

Ben, Brian & Jesse

JOB LOG

SWIFT Services, Inc.

DATE 12-12-12 | PAGE NO. 1

CUSTOMER: Grand Mesa Operating Co | WELL NO.: #4-26 | LEASE: Phillip | JOB TYPE: Port Collar | TICKET NO.: 22989

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0800							on loc w/ P.C. Tool
								2 3/8" x 5 1/2"
								P.C. @ 2365'
	0805							TIH w/ P.C. Tool
	0840							Load P.C.
	0935						1000	Test casing to 1000 Psi
								Open P.C.
	0940	3.5	3			200		Taking rate & check for Flow
	0945	4.5	0			250		Start Cement 225sks SMD
	1020	4.5	110			400		circ cement to raise weight
	1021	4.5	115/0			400		End Cement / Start Displacement
	1024		13					Cement displaced
								Close P.C.
	1028						1600	Test Csg to 1000 Psi
								Run 4 jts
	1035	3	0				150	Reverse out
	1045		25					Hole Clean
								225sks SMD Cement
								Circ 25sks to pit
								Thank you
								Nick, David E. & Doug

Pro-Stim Chemicals LLC

Date 12/19/12

Acidizing Report

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton		Pro-Stim Number
Well Name & Number Phillip #4-26	Field		~~Formation~~ Spot
County Gove / State KS	BHT	YD	Interval 4185-89

Well Type: Completion ☒ Recompletion ☐ Workover ☐ Oil ☐ Gas ☐ Water ☐ Disposal ☐ Perf ☐ OH ☐

Job Pumped Via: Tubing ☒ Casing ☐ Annulus ☐ CTU ☐ Combination ☐ Plug Depth NA Packer Depth 4150

Casing Size: 5 1/2	GRD	WT	Depth	Tubing Size: 2 7/8	GRD	WT	Spot 4200	
Casing Vol.	Tbg Vol		Ann Vol	OH Vol	Total Displacement 24			
Maximum Pressure	Tubing		Casing	Proposed Pump Time	AOL 9:00		Leave Loc	

Special Instructions:
250 Gal 15% RWR-1
30 BBLS 2% KCL

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
							Safety Meeting
							Prs Test to _____ psi
1	Acid	1 BBL SPOT					
11	Acid	3		6	0	0	Acid Gone
13	Flush	3		19	0	0	
14	Flush	3		21.4	0	0	Well loaded
15	Flush	0		21,4	300	0	
19	Flush	0		21.6	300	0	
30	Flush	0		22.0	300	0	
40	Flush	0		22.4	300	0	
50	Flush	0		23.1	500	0	
53	Flush	.30		23.6	250	0	
59	Flush	.30		24.6	290	0	
63	Flush	.30		25,3	330	0	
69	Flush	.30		25,7	280	0	
72	Flush	.30		26,3	220	0	
75	Flush	.30		26,5	110	0	
76	Flush	.30		26.8	100	0	
80	Flush	.30		27.5	110	0	
85	Flush	.30		28.6	140	0	
93	Flush	.30		30.5	100	0	

Treatment Synopsis

Avg Inj Rate	Fluid BPM .3		Total Injected	H2O 24.1	Acid 6	Oil		
Treating Prs	Max 500	Final 100	Avg. 140	ISIP 80	5'SI 1 min VAC	10'SI	15'SI	
Customer Representative				Pro-Stim Supervisor				

Pro-Stim Chemicals LLC

Date 12-28-12

Acidizing Report

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton	Pro-Stim Number 46	
Well Name & Number Phillip 4-26	Field	Formation	Spot 1 barrel
County Gove	State KS	BHT	YD	Interval 4161-65

Well Type: Completion ☑ Recompletion ☐ Workover ☐ Oil ☐ Gas ☐ Water ☐ Disposal ☐ Perf ☐ OH ☐

Job Pumped Via: Tubing ☑ Casing ☐ Annulus ☐ CTU ☐ Combination ☐

Plug Depth						Packer Depth 4110		
Casing Size: 5 1/2	GRD	WT	Depth	Tubing Size: 2 7/8		GRD	WT	Spot 4170
Casing Vol. 1	Tbg Vol 24		Ann Vol	OH Vol		Total Displacement		
Maximum Pressure	Tubing		Casing	Proposed Pump Time		AOL		Leave Loc

Special Instructions: 500 gals 15% RWR-1 w/ 1 gal AR-630

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
							Safety Meeting
		Spot 1					Prs Test to _____ psi
11:15	Acid						
11:33	Acid	4.2		12	60		Acid gone
11:36	Flush	0		24.2	100		loaded
11:36	Flush	0		24.2	300		
11:42	Flush	0		24.3	500		
11:50	Flush	0		24.3	700		Staging
12:02	Flush	0		24.4	800		
1:00	Flush	0		24.5	900		
1:10	Flush	0		24.5	1000		
1:20	Flush	0		24.6	1200		max
1:30	Blead off, unhook, swab back						

Treatment Synopsis

Avg Inj Rate	Fluid BPM		Total Injected	H2O 13	Acid 12	Oil	
Treating Prs	Max 1200	Final	Avg.	ISIP	5'SI	10'SI	15'SI
Customer Representative				Pro-Stim Supervisor	Shannon M.		

JOB LOG

SWIFT Services, Inc.

DATE 1-9-13 | PAGE NO. 1

CUSTOMER	WELL NO.	LEASE	JOB TYPE	TICKET NO.
Grand Mesa	# 4-26	Phillip	Squeeze Perfs	23033

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS T	PUMPS C	PRESSURE (PSI) TUBING	PRESSURE (PSI) CASING	DESCRIPTION OF OPERATION AND MATERIALS
	0900							on loc set up Trks
								2 3/8" x 5 1/2"
								Perfs 4161'-65' 4185'-87'
								Pkr 4110'
	0925	3.5	0				0	Load Csg
	0935		34				300	Pressure to 300 psi
	0940	3.5	0			0		Take inj rate
	0945	1.5	15			300		Final rate 1.5 bpm @ 300 psi
	0945	1.5	0			300		Start Cement + 100 sks Standard
	0955	2.5	21/0			100		End Cmt/Start Disp. Holed in 1st 30 sk
	0958	1.5	4			100		Cmt @ Perfs
	1000	.5	7			300		Pressure building Slow rate
	1030	.5	24			750		Cmt Cleared Pkr Shut down
								wash up Trk
						500		check pressure
	1040	.5	24			1000		Bump
	1045							Release pressure / coming back Slowly
	1048					1000		Repressure
	1110		24.1			400/1000		Bump
	1125							Release pressure / Dry
	1130	2.5	0				100	Reverse out
	1142		32					Hole Clean
								Thank you
								Nick, David E. & Jeremy

Pro-Stim Chemicals LLC

Acidizing Report

Date 1-16-13

Customer Grand Mesa	Pro-Stim Chemical Yard Dighton	Pro-Stim Number 46	
Well Name & Number Phillip 4-26	Field	Formation	Spot 1 barrel
County Gove / State KS	BHT / YD	Interval [redacted] - 4185-89	

Well Type: Completion ☐ Recompletion ☐ Workover ☐ Oil ☐ Gas ☐ Water ☐ Disposal ☐ Perf ☐ OH ☐

Job Pumped Via: Tubing ☐ Casing ☐ Annulus ☐ CTU ☐ Combination ☐

Plug Depth			Packer Depth [redacted] 4150					
Casing Size: 5½	GRD	WT	Depth	Tubing Size: 2⅞	GRD	WT	Spot 4210	
Casing Vol.	Tbg Vol 24		Ann Vol 1	OH Vol		Total Displacement		
Maximum Pressure	Tubing		Casing	Proposed Pump Time		AOL	Leave Loc	

Special Instructions: 250 gals 15% RWR-1

Treatment Record

Time	Type Fluid	Rate BMP	Increment Vol Bbls	Cum Vol Bbls	Pressure Tubing	Pressure Casing	Observations
							Safety Meeting
904	Acid	Spot 1					Prs Test to _____ psi
	Let Set 30 min						
934	Acid	2.4		6	20		Acid gone
943	Flush	0		23.5	80		Loaded
948	Flush	0		23.6	50		
1007	Flush	0		24.6	50		
1017	Flush	.15		27	200		max
1034	Flush	.15		29.5	250		
1039	Flush	.15		31	200		Total Load

Treatment Synopsis

Avg Inj Rate	Fluid BPM		Total Injected	H2O 25	Acid 6	Oil		
Treating Prs	Max 200	Final 200	Avg.	ISIP 120	5 VAC	10 SI	15 SI	
Customer Representative				Pro-Stim Supervisor	Shannon M.			

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

Kansas
Corporation Commission

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

February 05, 2013

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

Re: ACO1
API 15-063-22062-00-00
Phillip 4-26
NW/4 Sec.26-13S-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,
Ronald N. Sinclair