



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1147264
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: _____



1147264

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
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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> _____
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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	HESS 2-23
Doc ID	1147264

Tops

Name	Top	Datum
Stone Corral	2488	+484
Bs/Stone Corral	2511	+461
Heebner	3961	-989
Lansing	3993	-1021
Muncie Creek	4154	-1182
Stark	4235	-1263
Marmaton	4328	-1356
Excello	4486	-1514
Mississippian	4619	-1647
LTD	4700	

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M507
Well Name	HESS 2-23	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3955-4000 TORONTO	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/06/03
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3955-4000 TORONTO		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/06/02	Start Test Time	18:25:00
Final Test Date	2013/06/03	Final Test Time	04:25:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

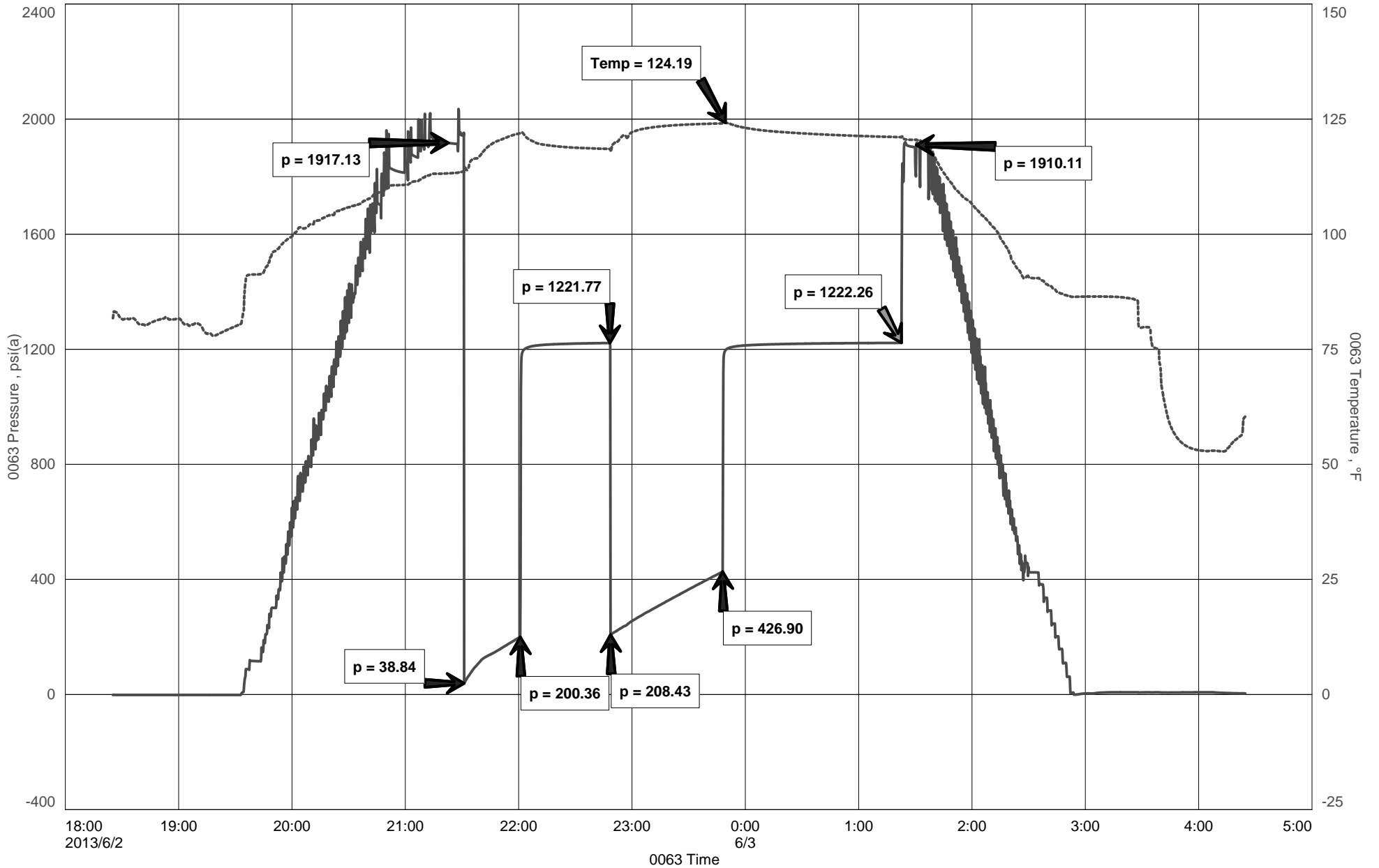
Remarks **RECOVERED:**

955' GMW 1% GAS, 95% WTR, 4% MUD W/ A FEW SPOTS OF OIL UP TOP
955' TOTAL FLUID

CHLOR: 50,000 PPM
PH:7.0
RW: .18 @ 52 DEG

TOOL SAMPLE: 99% WTR, 1% MUD, SLIGHT GASSY ODOR

HESS 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HSS2-23DST1

TIME ON: 1825 (06/02)
TIME OFF: 0425 (06/03)

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS 2-23
Contractor H2 RIG2 Charge to GRAND MESA OPERATING COMPANY
Elevation 2972 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. M507
Date 6/02/2013 Sec. 23 Twp. 12 S Range 32 W County LOGAN State KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3955 ft. to 4000 ft. Total Depth 4000 ft.
Packer Depth 3950 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 3955 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3937 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3997 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 53 Drill Collar Length 238 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 3685 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 45 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, BOB 13 MIN (NO BB)
2nd Open: NO BLOW THEN AFTER 1 1/2 MIN A WSB THAT INC. TO BOB IN 19 MIN. (NO BB)

Recovered 955 ft. of GMW 1% GAS, 95% WTR, 4% MUD W/ A FEW SPOTS OF OIL UP TOP
Recovered 955 ft. of TOTAL FLUID (717'DP, 238' DC)
Recovered _____ ft. of _____
Recovered _____ ft. of CHLOR: 50,000 PPM

Recovered _____ ft. of <u>RW: .18 @ 52 DEG</u>	Price Job
Recovered _____ ft. of <u>PH: 7.0</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 99% WTR, 1% MUD, SLIGHT GASSY ODOR</u>	Total

Time Set Packer(s) 9:30 P.M. A.M. P.M. Time Started Off Bottom 1:15 A.M. A.M. P.M. Maximum Temperature 124

Initial Hydrostatic Pressure..... (A) 1917 P.S.I.
Initial Flow Period..... Minutes 30 (B) 39 P.S.I. to (C) 200 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1222 P.S.I.
Final Flow Period..... Minutes 60 (E) 208 P.S.I. to (F) 427 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1222 P.S.I.
Final Hydrostatic Pressure..... (H) 1910 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
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HSS2-23DST4

TIME ON: 1735 (06/06)
TIME OFF: 0025 (06/07)

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS 2-23
Contractor H2 RIG2 Charge to GRAND MESA OPERATING COMPANY
Elevation 2972 KB Formation UPPER JOHNSON Effective Pay _____ Ft. Ticket No. M510
Date 6/06/2013 Sec. 23 Twp. _____ Range 12 S County 32 W State LOGAN KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 4 Interval Tested from 4538 ft. to 4570 ft. Total Depth 4570 ft.
Packer Depth 4533 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4538 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4520 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4567 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 48 Drill Collar Length 238 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 4268 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 32 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 WSB THAT DIMINISHED UNTIL DEAD @ 12 MIN (NO BB)
2nd Open: NO BLOW NO BLOW BACK

Recovered <u>-2</u> ft. of <u>DM 100% MUD W/ SOME SPOTS OF OIL & GASSY ODOR</u>	
Recovered <u>-2</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>100% MUD W/ SOME SPOTS OF OIL & SOME GASSY BUBBLES</u>	Total

Time Set Packer(s) 8:15 P.M. ^{A.M.} P.M. Time Started Off Bottom 9:35 P.M. ^{A.M.} P.M. Maximum Temperature 123
Initial Hydrostatic Pressure..... (A) 2202 P.S.I.
Initial Flow Period..... Minutes 20 (B) 10 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period..... Minutes 20 (D) 128 P.S.I.
Final Flow Period..... Minutes 20 (E) 12 P.S.I. to (F) 13 P.S.I.
Final Closed In Period..... Minutes 20 (G) 52 P.S.I.
Final Hydrostatic Pressure..... (H) 1850 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

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M510
Well Name	HESS 2-23	Representative	MIKE COCHRAN
Unique Well ID	DST#4 4538-4570 UPPER JOHNSON	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/06/07
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

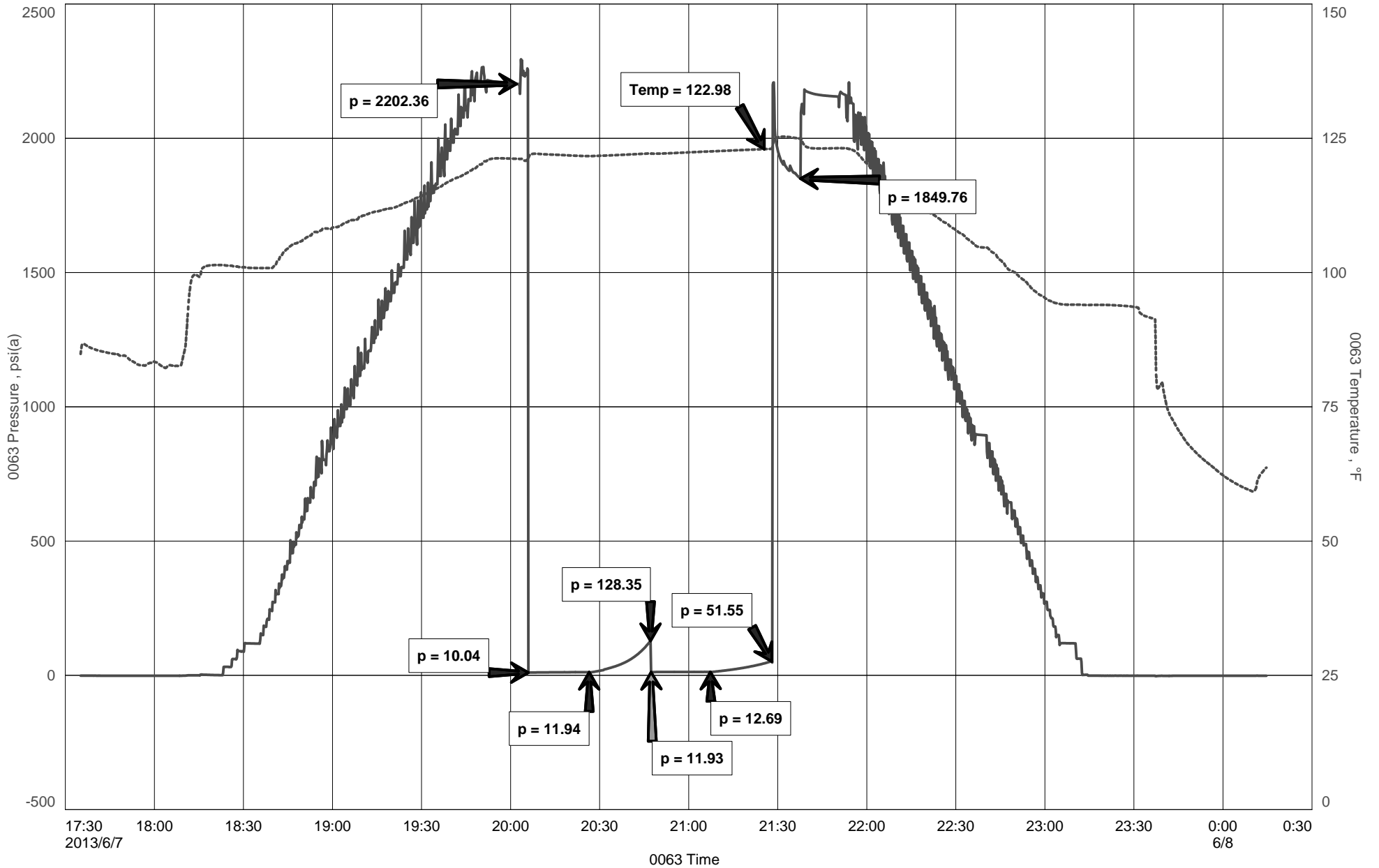
Test Type	CONVENTIONAL		
Formation	DST#4 4538-4570 UPPER JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/06/06	Start Test Time	17:35:00
Final Test Date	2013/06/07	Final Test Time	00:25:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
~2 DM 100% MUD W/ SOME SPOTS OF OIL & GASSY ODOR
~2' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ SOME SPOTS OF OIL & SOME GASSY BUBBLES

HESS 2-23



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M511
Well Name	HESS 2-23	Representative	MIKE COCHRAN
Unique Well ID	DST#5 4536-4590 JOHNSON	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/06/07
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#5 4536-4590 JOHNSON		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/06/07	Start Test Time	10:00:00
Final Test Date	2013/06/07	Final Test Time	20:35:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks **RECOVERED:**

30' GWM 1% GAS, 19% WTR, 80% MUD W/ A THIN SCUM OF OIL
238' GMW 2% GAS, 83% WTR 15% MUD W/ SOME SPOTS OF OIL
268' TOTAL FLUID

CHLOR: 32,000 PPM
PH:7.0
RW: .22 @ 79 DEG

TOOL SAMPLE: 2% GAS, 88% WTR, 10% MUD W/ A THIN SCUM OF OIL



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HSS2-23DST5

TIME ON: 1000
TIME OFF: 2035

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS 2-23
Contractor H2 RIG2 Charge to GRAND MESA OPERATING COMPANY
Elevation 2972 KB Formation JOHNSON Effective Pay _____ Ft. Ticket No. M511
Date 6/07/2013 Sec. 23 Twp. 12 S Range 32 W County LOGAN State KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 5 Interval Tested from 4536 ft. to 4590 ft. Total Depth 4590 ft.
Packer Depth 4531 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4536 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4518 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4587 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 48 Drill Collar Length 238 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 6.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 4266 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 54 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31'dp) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, INC. TO 4" (NO BB)
2nd Open: NO BLOW, THEN AFTER 4 1/2 MIN A VWSB, INC. TO 5" (NO BB)

Recovered 30 ft. of GWM 1% GAS, 19% WTR, 80% MUD W/ A THIN SCUM OF OIL
Recovered 238 ft. of GMW 2% GAS, 83% WTR 15% MUD W/ SOME SPOTS OF OIL
Recovered 268 ft. of TOTAL FLUID

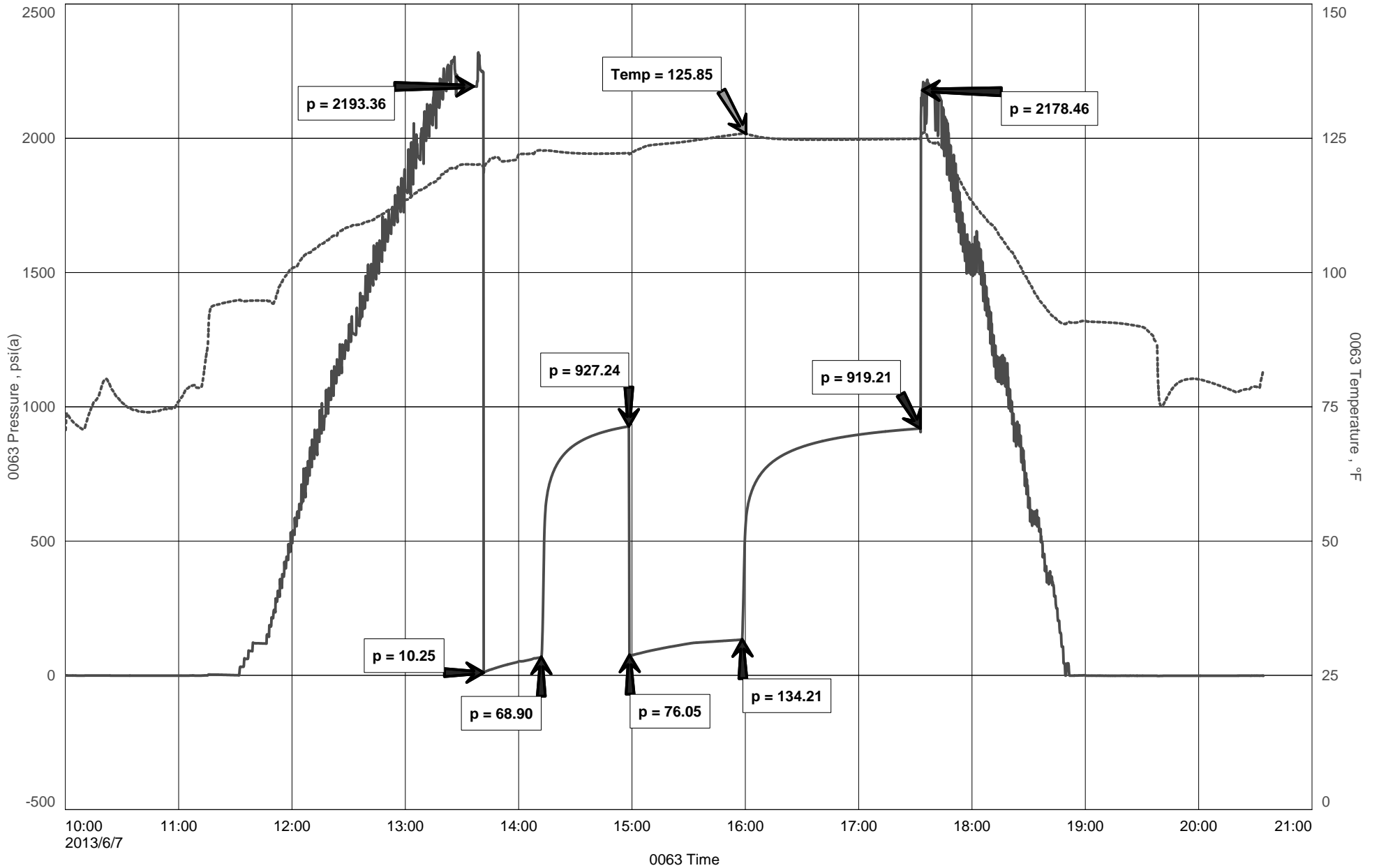
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of <u>CHLOR: 32,000 PPM</u>	Other Charges
Recovered _____ ft. of <u>RW: .22 @ 79 DEG</u>	Insurance
Remarks: <u>PH: 7.0</u>	
<u>TOOL SAMPLE: 2% GAS, 88% WTR, 10% MUD W/ A THIN SCUM OF OIL</u>	Total

Time Set Packer(s) 1:45 P.M. A.M. P.M. Time Started Off Bottom 5:30 P.M. A.M. P.M. Maximum Temperature 126

Initial Hydrostatic Pressure..... (A) 2193 P.S.I.
Initial Flow Period..... Minutes 30 (B) 10 P.S.I. to (C) 69 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 927 P.S.I.
Final Flow Period..... Minutes 60 (E) 76 P.S.I. to (F) 134 P.S.I.
Final Closed In Period..... Minutes 90 (G) 919 P.S.I.
Final Hydrostatic Pressure..... (H) 2178 P.S.I.

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HESS 2-23



DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M508
Well Name	HESS 2-23	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4076-4105 E&F	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/06/04
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4076-4105 E&F		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/06/03	Start Test Time	19:35:00
Final Test Date	2013/06/04	Final Test Time	04:50:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
1030' MW 97% WTR,3%MUD (792'DP, 238' DC)
1030' TOTAL FLUID

CHLOR: 47,000 PPM
PH:9.0
RW: .15 @ 60 DEG

TOOL SAMPLE: 99%WTR,1% MUD



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HSS2-23DST2

TIME ON: 1935 (06/03)
TIME OFF: 0450 (06/04)

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS 2-23
Contractor H2 RIG2 Charge to GRAND MESA OPERATING COMPANY
Elevation 2972 KB Formation _____ E&F Effective Pay _____ Ft. Ticket No. M508
Date 6/03/2013 Sec. 23 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 4076 ft. to 4105 ft. Total Depth 4105 ft.
Packer Depth 4071 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4076 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4058 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4102 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 238 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 3806 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 29 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: GSB, BOB 7 1/2 MIN (NO BB)
2nd Open: NO BLOW, THEN AFTER 15 SEC A WSB THAT INC. TO BOB 10 1/2 MIN (NO BB)

Recovered 1030 ft. of MW 97% WTR, 3% MUD (792' DP, 238' DC)

Recovered 1030 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of CHLOR: 47,000 PPM

Recovered _____ ft. of RW: .15 @ 60 DEG Price Job _____

Recovered _____ ft. of PH: 9.0 Other Charges _____

Remarks: _____ Insurance _____

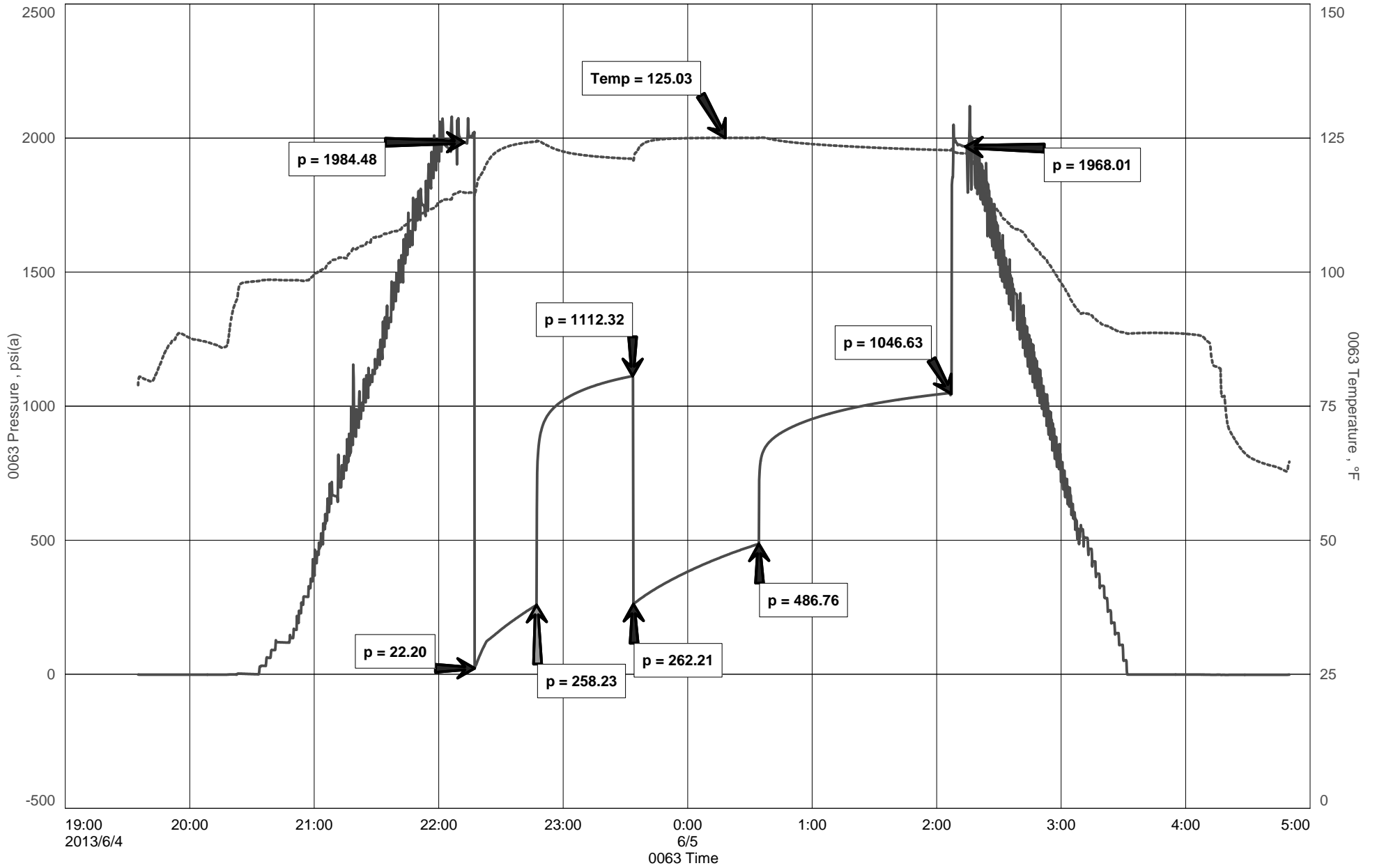
TOOL SAMPLE: 99%WTR, 1% MUD Total _____

Time Set Packer(s) 10:15 P.M. A.M. P.M. Time Started Off Bottom 2:00 A.M. A.M. P.M. Maximum Temperature 125

Initial Hydrostatic Pressure..... (A) 1984 P.S.I.
Initial Flow Period..... Minutes 30 (B) 22 P.S.I. to (C) 258 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1112 P.S.I.
Final Flow Period..... Minutes 60 (E) 262 P.S.I. to (F) 487 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1047 P.S.I.
Final Hydrostatic Pressure..... (H) 1968 P.S.I.

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HESS 2-23





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: HSS2-23DST3

TIME ON: 1820 (06/04)
TIME OFF: 0135 (06/05)

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS 2-23
Contractor H2 RIG2 Charge to GRAND MESA OPERATING COMPANY
Elevation 2972 KB Formation H ZONE Effective Pay _____ Ft. Ticket No. M509
Date 6/04/2013 Sec. 23 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By KENT MATSON Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 4144 ft. to 4190 ft. Total Depth 4190 ft.
Packer Depth 4139 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 4144 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4126 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4187 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 67 Drill Collar Length 238 ft. I.D. 2 1/4 in.
Weight _____ Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,400 P.P.M. Drill Pipe Length 3874 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 1 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 46 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31' D.P.) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: A WEAK 1/4" BLOW DIMINISHING UNTIL DEAD @ 15 MIN (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/ SLIGHT GASSY ODOR

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 9:45 P.M. ^{A.M.} P.M. Time Started Off Bottom 11:25 P.M. ^{A.M.} P.M. Maximum Temperature 118
Initial Hydrostatic Pressure..... (A) 1988 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 882 P.S.I.
Final Flow Period..... Minutes 20 (E) 12 P.S.I. to (F) 15 P.S.I.
Final Closed In Period..... Minutes 20 (G) 795 P.S.I.
Final Hydrostatic Pressure..... (H) 1973 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

Pressure Survey Report

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	M509
Well Name	HESS 2-23	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4144-4190 H ZONE	Well Operator	GRAND MESA OPERATING COMPANY
Surface Location	SEC.23-12S-32W LOGAN CO.KS.	Report Date	2013/06/05
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KENT MATSON
		Test Unit	NO. 1

Test Information

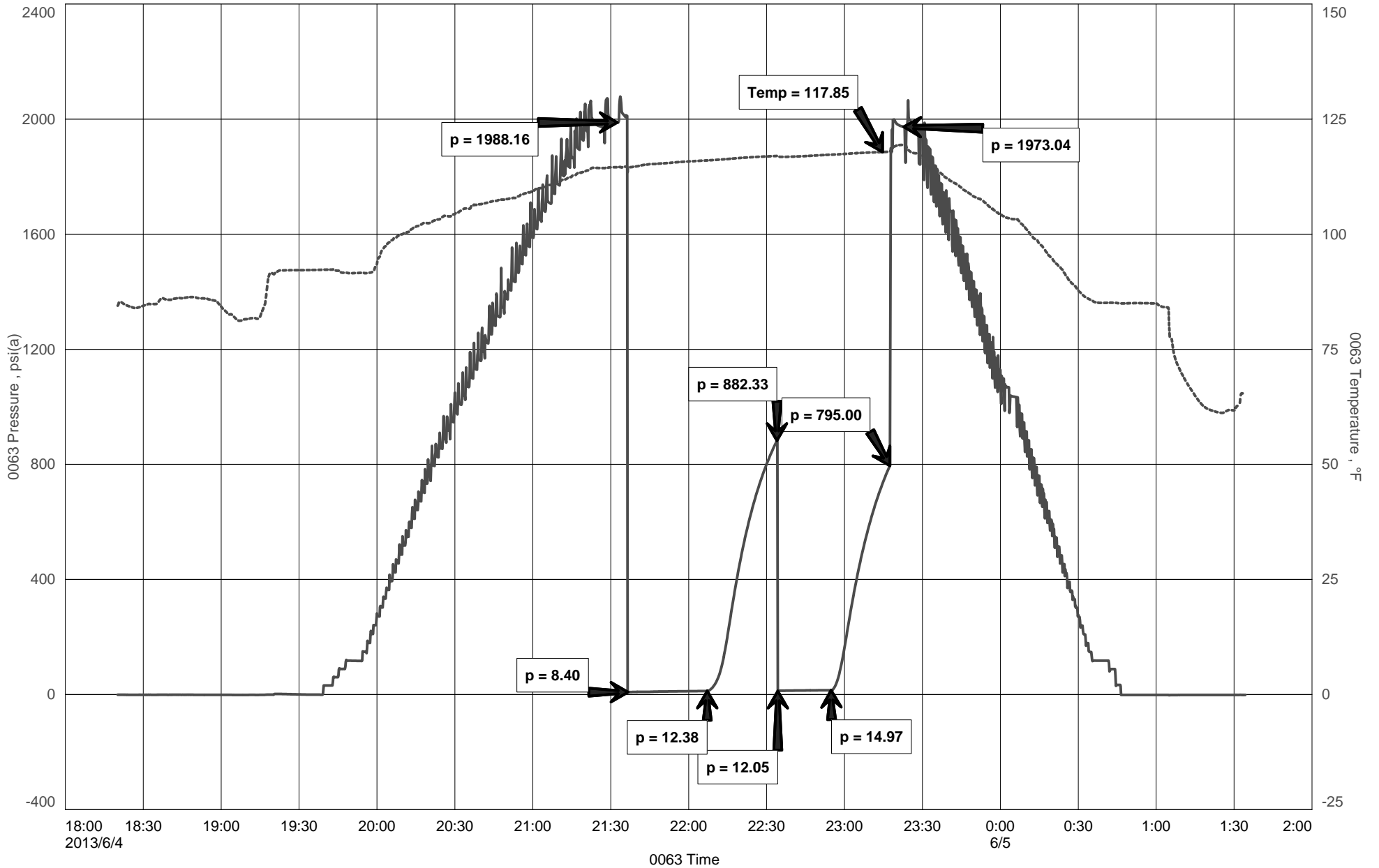
Test Type	CONVENTIONAL		
Formation	DST#3 4144-4190 H ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/06/04	Start Test Time	18:20:00
Final Test Date	2013/06/05	Final Test Time	01:35:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
<1' 100% MUD
<1' TOTAL FLUID

TOOL SAMPLE: 100% MUD W/ SLIGHT GASSY ODOR

HESS 2-23



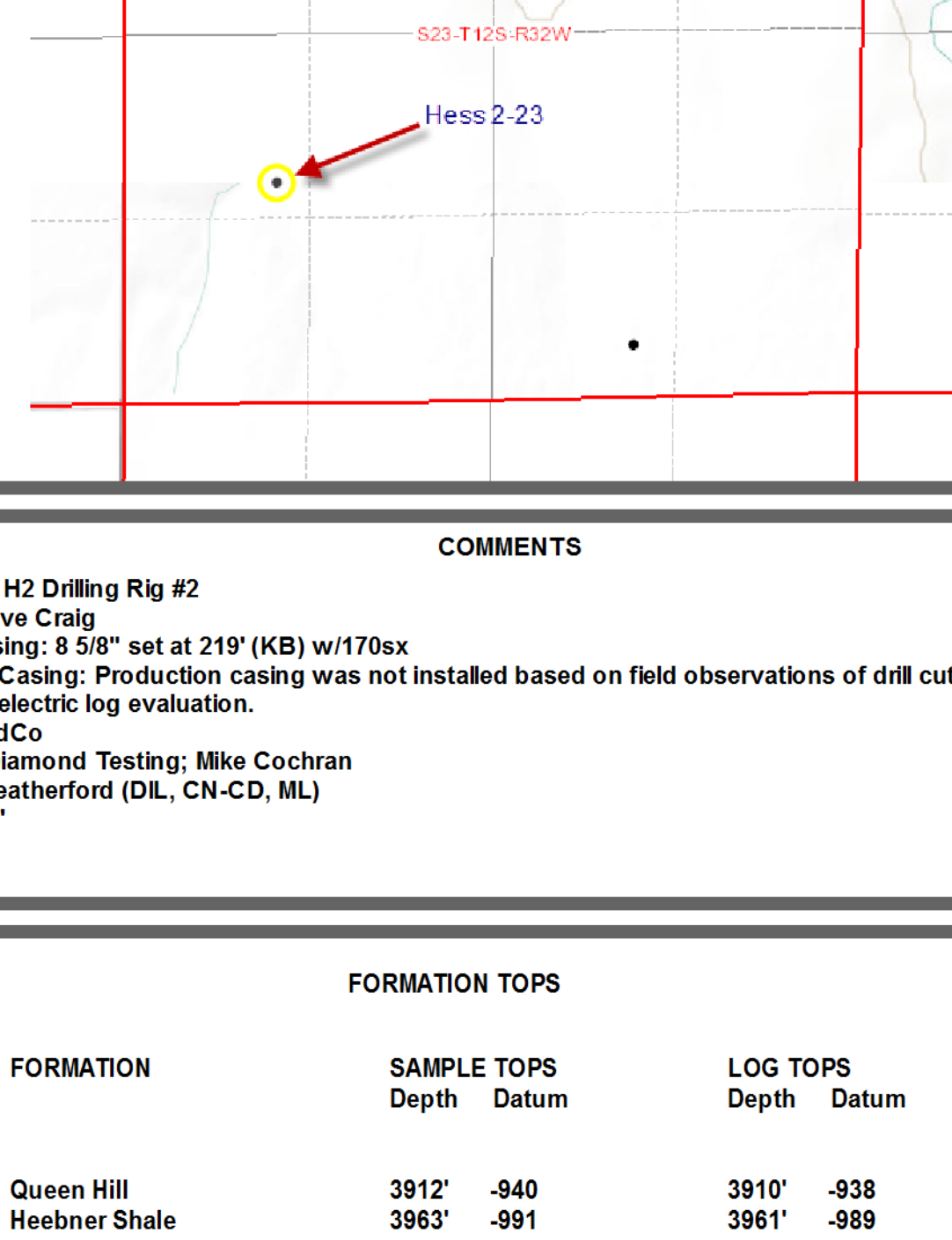
Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Hess 2-23 Location: 1567' FSL, 1050' FWL, 23-12s-32w, Logan County, Kansas License Number: API: 15-109-21180 Spud Date: 05/28/2013 Surface Coordinates: Lat: 38.9935535 Long: -100.8468444 Bottom Hole Coordinates: Vertical hole Ground Elevation (ft): 2961' K.E. Elevation (ft): 2972' Logged Interval (ft): 3800' To: RTD Total Depth (ft): 4700' Formation: Mississippian at RTD Type of Drilling Fluid: Chemical

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

GEOLOGIST

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

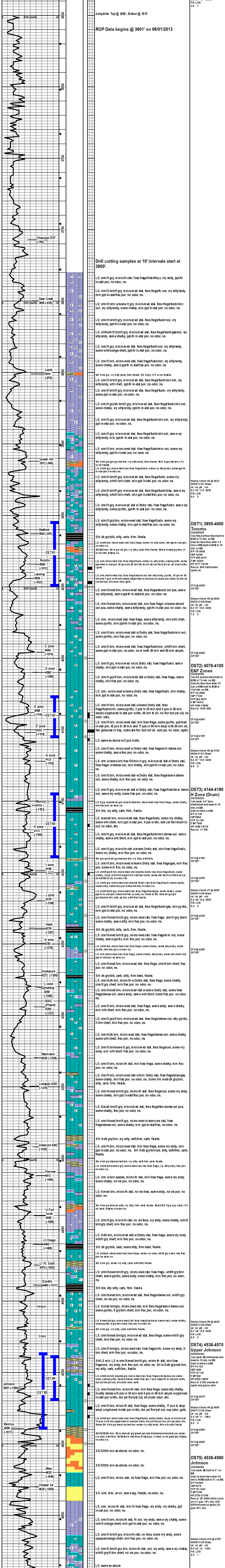


COMMENTS

Contractor: H2 Drilling Rig #2 Pusher: Steve Craig Surface Casing: 8 5/8" set at 219' (KB) w/170sx Production Casing: Production casing was not installed based on field observations of drill cuttings, DST results and electric log evaluation. Mud by: MudCo DST's by: Diamond Testing; Mike Cochran Logs by: Weatherford (DIL, CN-CD, ML) RTD = 4700' LTD = 4700'

FORMATION TOPS

Table with 4 columns: FORMATION, SAMPLE TOPS Depth, SAMPLE TOPS Datum, LOG TOPS Depth, LOG TOPS Datum. Lists formations from Queen Hill to LTD with corresponding depths.



RTD 4700', -1728 LTD 4700', -1728

RTD 4700', -1728 LTD 4700', -1728

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



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

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

Sam Brownback, Governor

July 12, 2013

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

Re: ACO1
API 15-109-21180-00-00
HESS 2-23
SW/4 Sec.23-12S-32W
Logan County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Michael J. Reilly



CONSOLIDATED
Oil Well Services, LLC

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

259405

TICKET NUMBER 39999
LOCATION Oakley KS
FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-9-13	3372	Hess # 2-23	23	12S	32W	Lossa
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Grand Mesa			463	Corey D		
MAILING ADDRESS			683	Jack J / Jeremy R		
CITY	STATE	ZIP CODE				

Oakley KS
South to
head
E + N. into

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4700' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meetings and rig upon H2 drilling Plus 95 ordered
1st plug 25 SKS @ 2500'
2nd plug 100 SKS @ 1500'
3rd plug 40 SKS @ 200' 225 SKS 60/40, 2oz 48 gal 1/4" Fl Seal
4th plug 10 SKS @ 40' w. 1/2" wiper plug
RH 30 SKS
MH 20 SKS

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE		
5406	10	MILEAGE		
5407	9.67 Tons	Ton mileage delivery		
1131	225 SKS	60/40, 2oz		
1118B	774 #	Bentonite gel		
1107	56 #	Fl Seal		
4432	1	8 5/8" Wiper Plug		
			Subtotal	
			less 10% disc count	
			Subtotal	
			SALES TAX	
			ESTIMATED	
			TOTAL	

completed

RAVIN 3737
 AUTHORIZATION Steven Craig TITLE TOOLPUSHER DATE _____

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