

# 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

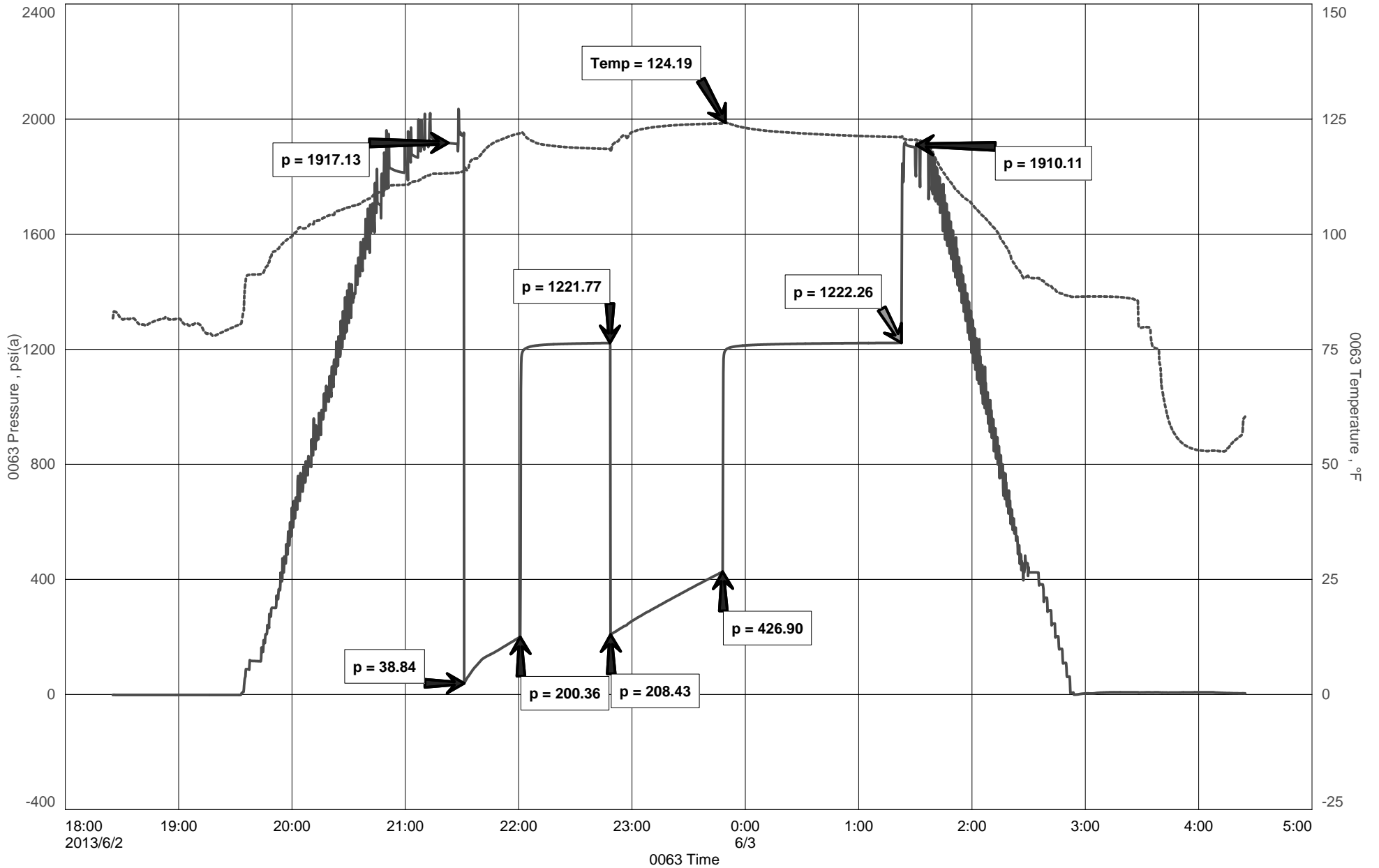
Remarks **RECOVERED:**

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.

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