



**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 State 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 &amp; 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 &amp; 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

