

# 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.

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.

# HESS 2-23

