



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 <u><1</u> ft. of <u>DM 100% MUD</u>	Price Job Other Charges Insurance Total
Recovered <u><1</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	
TOOL SAMPLE: <u>100% MUD W/ SLIGHT GASSY ODOR</u>	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

