

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 <u>RW: .15 @ 60 DEG</u>	Price Job
Recovered _____ ft. of <u>PH: 9.0</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 99%WTR, 1% MUD</u>	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.

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

