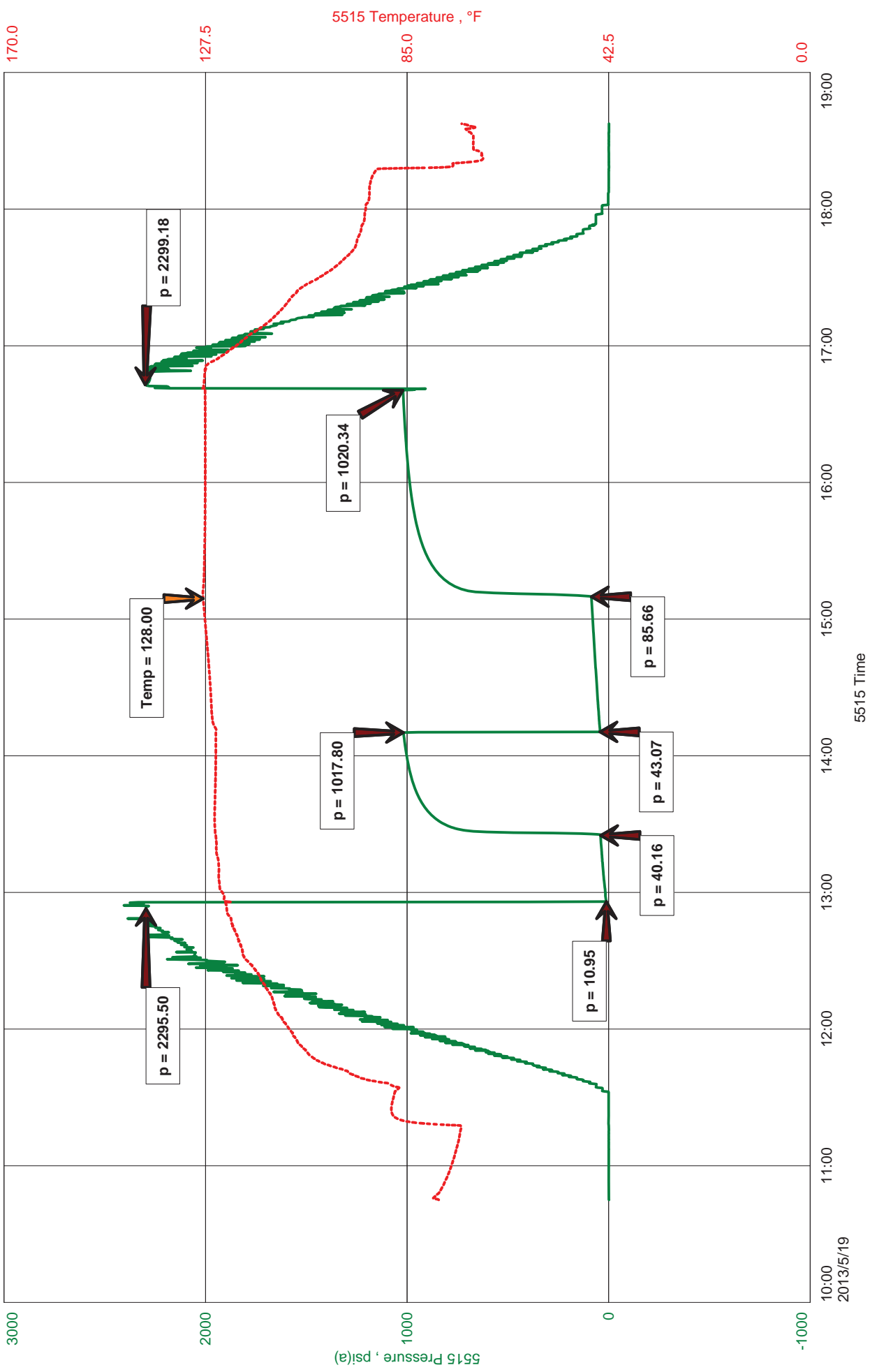


GRAND MESA OPERATING COMPANY
DST #1 JOHNSON 4,585' - 4,626'
Start Test Date: 2013/05/19
Final Test Date: 2013/05/19

HESS #1-22
Formation: DST #1 JOHNSON 4,585' - 4,626'
Pool: WILDCAT
Job Number: BOO4

HESS #1-22



DIAMOND TESTING

ROGER D. FRIEDLY

CELL # 620-793-2043

General Information

Company Name	GRAND MESA OPERATING COMPANY	Job Number	BOO4
Contact	STEVE STRIBLING	Representative	BOB HAMEL
Well Name	HESS #1-22	Well Operator	GRAND MESA OPERATING COMPANY
Unique Well ID	DST #1 JOHNSON 4,585' - 4,626'	Prepared By	BOB HAMEL
Surface Location	SEC 22-12S-32W LOGAN CO., KS	Qualified By	JOHN GOLDSMITH
Field	WILDCAT	Test Unit	NO.6
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL	Representative	BOB HAMEL
Formation	DST #1 JOHNSON 4,585' - 4,626'	Well Operator	GRAND MESA OPERATING COMPANY
Well Fluid Type	01 Oil	Report Date	2013/05/19
Test Purpose (AEUB)	Initial Test	Prepared By	BOB HAMEL
Start Test Date	2013/05/19	Start Test Time	10:45:00
Final Test Date	2013/05/19	Final Test Time	

Test Results

RECOVERED: 16' OCWM 6% OIL, 20% WTR, 74% MUD
16' SLTWCMO 98% OIL, 1% WTR, 1% MUD
126' SLTO&MCW 1% OIL, 79% WTR, 20% MUD
158' TOTAL FLUID

TOOL SAMPLE: 2% GAS, 18% OIL, 45% WTR, 35% MUD

CHLORIDES: 32,000Ppm
PH: 7.0
RW: .21 @ 68 deg



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: hess1-22dst1

TIME ON: 10:45
TIME OFF: 18:38

Company GRAND MESA OPERATING COMPANY Lease & Well No. HESS #1-22
Contractor DUKE RIG #4 Charge to GRAND MESA OPERATING COMPANY
Elevation 3,027' KB Formation JOHNSON Effective Pay _____ Ft. Ticket No. B004
Date 5-19-2013 Sec. 22 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative BOB HAMEL

Formation Test No. 1 Interval Tested from 4,585 ft. to 4,626 ft. Total Depth 4,626 ft.
Packer Depth 4,580 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4,585 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4,566 ft. Recorder Number 5513 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4,623 ft. Recorder Number 6249 Cap. 4,950 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,200 P.P.M. Drill Pipe Length 4,452 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #6 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 41 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: WEAK 1/2" BLOW INCREASING TO 6 1/2" (NObb)
2nd Open: WEAK SURFACE BLOW AFTER 7 MIN. INCREASING TO 8" (NObb)

Recovered 16 ft. of OCWM 6% OIL, 20% WTR, 74% MUD
Recovered 16 ft. of SLTWCMO 98% OIL, 1% WTR, 1% MUD GRAVITY 25.8 @ 60 deg
Recovered 126 ft. of SLTO&MCW 1% OIL, 79% WTR, 20% MUD

Recovered <u>158</u> ft. of <u>TOTAL FLUID</u>	<u>CHLORIDES 32,000 Ppm</u>	
Recovered _____ ft. of _____	<u>PH 7.0</u>	Price Job
Recovered _____ ft. of _____	<u>RW .21 @ 68 deg</u>	Other Charges
Remarks: _____		Insurance
<u>TOOL SAMPLE: 2% GAS, 18% OIL, 45% WTR, 35% MUD</u>		Total

Time Set Packer(s) 12:56 P.M. ^{A.M.} P.M. Time Started Off Bottom 4:41 P.M. ^{A.M.} P.M. Maximum Temperature 128

Initial Hydrostatic Pressure..... (A) 2,296 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 40 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1,018 P.S.I.
Final Flow Period..... Minutes 60 (E) 43 P.S.I. to (F) 86 P.S.I.
Final Closed In Period..... Minutes 90 (G) 1,020 P.S.I.
Final Hydrostatic Pressure..... (H) 2,299 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.