

# DIAMOND TESTING

## General Information Report

### General Information

**Company Name** GRAND MESA OPERATING CO.  
**Contact** MICHAEL REILLY  
**Well Name** GRIFFITH #2-23  
**Unique Well ID** DST #1, TOR./LANS., 3902-3940  
**Surface Location** SEC 23-16S-33W, SCOTT CO. KS.  
**Field** WILDCAT  
**Well Type** Vertical  
**Test Type** CONVENTIONAL  
**Formation** DST #1, TOR./LANS., 3902-3940  
**Well Fluid Type** 01 Oil

**Representative** TIM VENTERS  
**Well Operator** GRAND MESA OPERATING CO.  
**Report Date** 2013/10/10  
**Prepared By** TIM VENTERS  
**Qualified By** KENT MATSON

**Start Test Date** 2013/10/10  
**Final Test Date** 2013/10/10

**Start Test Time** 10:59:00  
**Final Test Time** 19:08:00

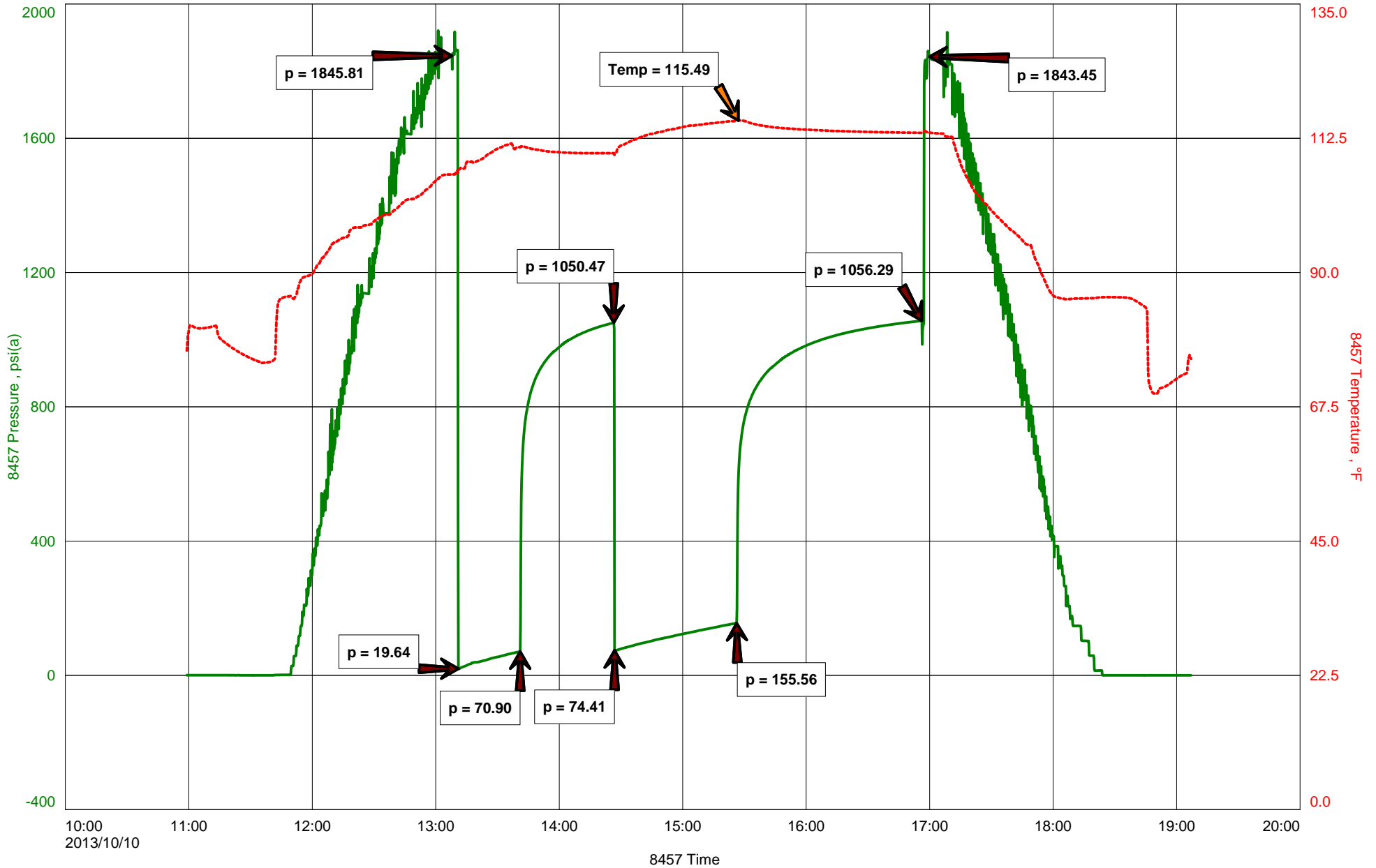
### Test Recovery:

RECOVERED: 80' HMCW W/TR. O, TRACE OIL, 56% WATER, 44% MUD  
125' MCW, 70% WATER, 30% MUD  
120' SMCW, 92% WATER, 8% MUD  
325' TOTAL FLUID

TOOL SAMPLE: 100% WATER

CHLORIDES: 60,000 ppm  
PH: 6.5  
RW: .20 @ 81 deg.

# GRIFFITH @2-23





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: GRIFFITH2-23DST1

TIME ON: 10:59  
TIME OFF: 19:08

Company GRAND MESA OPERATING CO. Lease & Well No. GRIFFITH #2-23  
Contractor DUKE DRILLING CO., INC. RIG #4 Charge to GRAND MESA OPERATING CO.  
Elevation 2978 KB Formation TORONTO/LANSING Effective Pay \_\_\_\_\_ Ft. Ticket No. T264  
Date 10-10-13 Sec. 23 Twp. \_\_\_\_\_ 16 S Range \_\_\_\_\_ 33 W County SCOTT State KANSAS  
Test Approved By KENT MATSON Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 3902 ft. to 3940 ft. Total Depth 3940 ft.  
Packer Depth 3897 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3902 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3883 ft. Recorder Number 8457 Cap. 10,000 P.S.I.  
Bottom Recorder Depth (Outside) 3937 ft. Recorder Number 11030 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 3,400 P.P.M. Drill Pipe Length 3869 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out NO Anchor Length 38 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: GOOD 2 INCH BLOW, BUILDING, REACHING BOB 28 MIN. (NO BB)  
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 45 MIN. (NO BB)

Recovered 80 ft. of HMCW W/TR. O, TRACE OIL, 56% WATER, 44% MUD  
Recovered 125 ft. of MCW, 70% WATER, 30% MUD  
Recovered 120 ft. of SMCW, 92% WATER, 8% MUD  
Recovered 325 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 60,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.5	Other Charges
Remarks: _____	RW: .20 @ 81 deg.	Insurance
WE SLID TOOL ABOUT 7'-8' WHEN SETTING TOOL.		
TOOL SAMPLE: TRACE OIL, 100% WATER		Total

Time Set Packer(s) 1:10 PM A.M. P.M. Time Started Off Bottom 4:55 PM A.M. P.M. Maximum Temperature 115 deg.  
Initial Hydrostatic Pressure..... (A) 1846 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 20 P.S.I. to (C) 71 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1050 P.S.I.  
Final Flow Period..... Minutes 60 (E) 74 P.S.I. to (F) 156 P.S.I.  
Final Closed In Period..... Minutes 90 (G) 1056 P.S.I.  
Final Hydrostatic Pressure..... (H) 1843 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.