

DIAMOND TESTING

General Information Report

General Information

Company Name NEW GULF OPERATING, LLC
Contact WINK KOPCZYNSKI JR.
Well Name ST. JOSEPH #2
Unique Well ID DST #1, LKC "H", 4175-4210
Surface Location SEC 10-12S-32W, LOGAN CO. KS.
Field WILDCAT
Well Type Vertical
Test Type CONVENTIONAL
Formation DST #1, LKC "H", 4175-4210
Well Fluid Type 01 Oil

Representative TIM VENTERS
Well Operator NEW GULF OPERATING, LLC
Report Date 2013/11/05
Prepared By TIM VENTERS
Qualified By JOHN GOLDSMITH

Start Test Date 2013/11/04
Final Test Date 2013/11/05

Start Test Time 17:13:00
Final Test Time 02:41:00

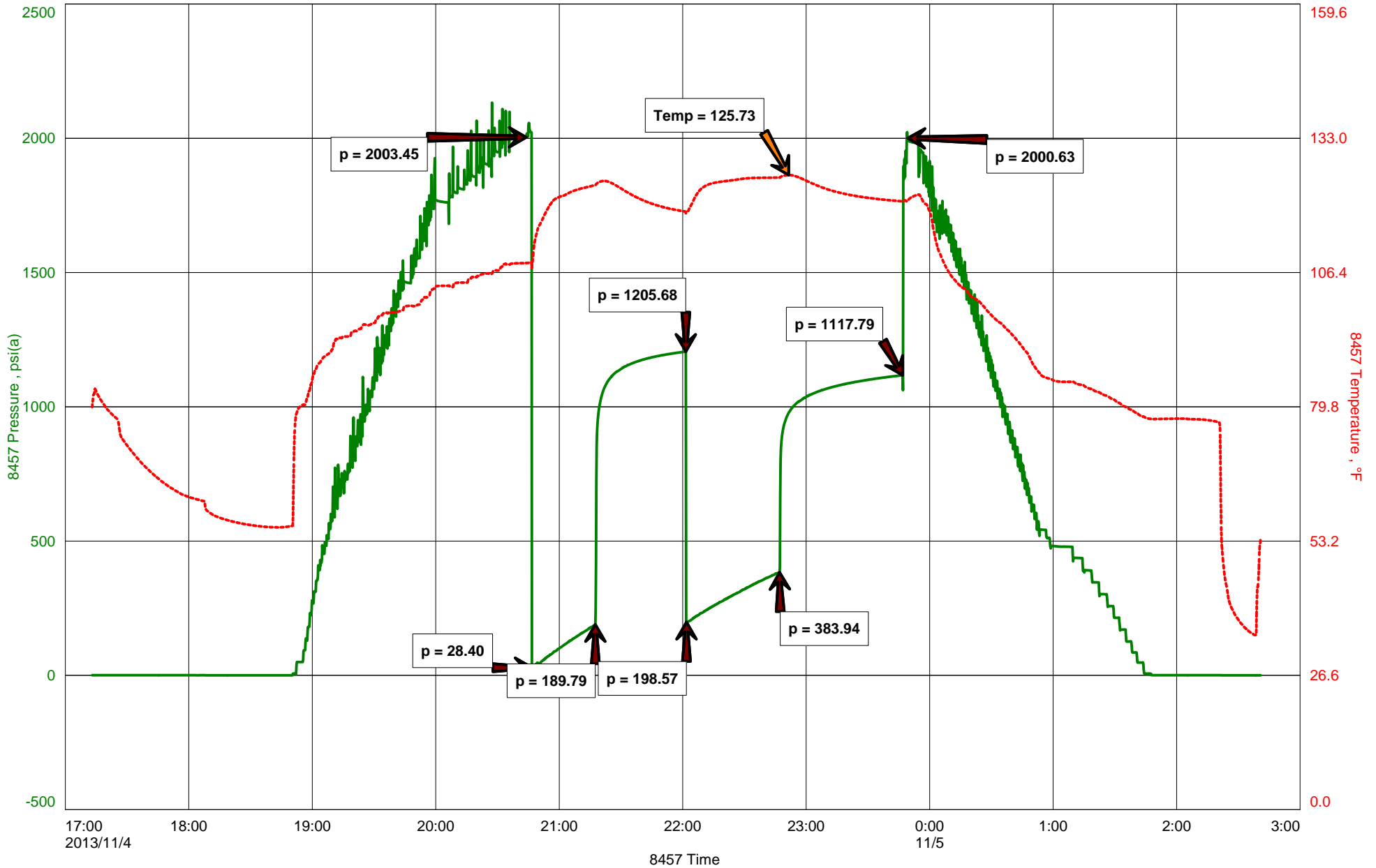
Test Recovery:

RECOVERED: 1530' GAS IN PIP

865' GO, 8% GAS, 92% OIL, GRAVITY: 36
125' G, SMCO, 7% GAS, 89% OIL, 4% MUD
65' G, SOCM, 4% GAS, 14% OIL, 82% MUD
1055' TOTAL FLUID

TOOL SAMPLE: 2% GAS, 95% OIL, 3% MUD

ST. JOSEPH #2





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: ST.JOSEPH2DST1

TIME ON: 17:13 11-4-13
TIME OFF: 02:41 11-5-13

Company NEW GULF OPERATING, LLC Lease & Well No. ST. JOSEPH #2
Contractor VAL ENERGY, INC. RIG #4 Charge to NEW GULF OPERATING, LLC
Elevation 3016 KB Formation LKC "H" Effective Pay _____ Ft. Ticket No. T275
Date 11-4-13 Sec. 10 Twp. _____ 12 S Range _____ 32 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIMOTHY T. VENTERS

Formation Test No. 1 Interval Tested from 4175 ft. to 4210 ft. Total Depth 4210 ft.
Packer Depth 4170 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4175 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4156 ft. Recorder Number 8457 Cap. 10,000 P.S.I.
Bottom Recorder Depth (Outside) 4207 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 56 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 6.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 2,000 P.P.M. Drill Pipe Length 4142 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 2 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 35 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 1 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (BOB BB)
2nd Open: WEAK 1/2 INCH BLOW, BUILDING, REACHING BOB 7 MIN. (NO BB)

Recovered 1530 ft. of GAS IN PIPE
Recovered 865 ft. of GO, 8% GAS, 92% OIL, GRAVITY: 36
Recovered 125 ft. of G,SMCO, 7% GAS, 89% OIL, 4% MUD
Recovered 65 ft. of G,SOCM 4% GAS, 14% OIL, 82% MUD

Recovered <u>1055 ft.</u> of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>2% GAS, 95% OIL, 3% MUD</u>	Total

Time Set Packer(s) 8:46 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:46 PM ^{A.M.}/_{P.M.} Maximum Temperature 126 deg.

Initial Hydrostatic Pressure..... (A) 2003 P.S.I.
Initial Flow Period..... Minutes 30 (B) 28 P.S.I. to (C) 190 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1206 P.S.I.
Final Flow Period..... Minutes 45 (E) 199 P.S.I. to (F) 384 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1118 P.S.I.
Final Hydrostatic Pressure..... (H) 2001 P.S.I.

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