

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	L.D. DRILLING, INC.	Job Number	M594
Well Name	SOFT TAIL #1-29	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4077-4170 PAWNEE/FT.SCOTT	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC.29-14S-29W GOVE CO.KS.	Report Date	2013/12/17
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 1

Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4077-4170 PAWNEE/FT.SCOTT		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2013/12/16	Start Test Time	20:45:00
Final Test Date	2013/12/17	Final Test Time	04:25:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

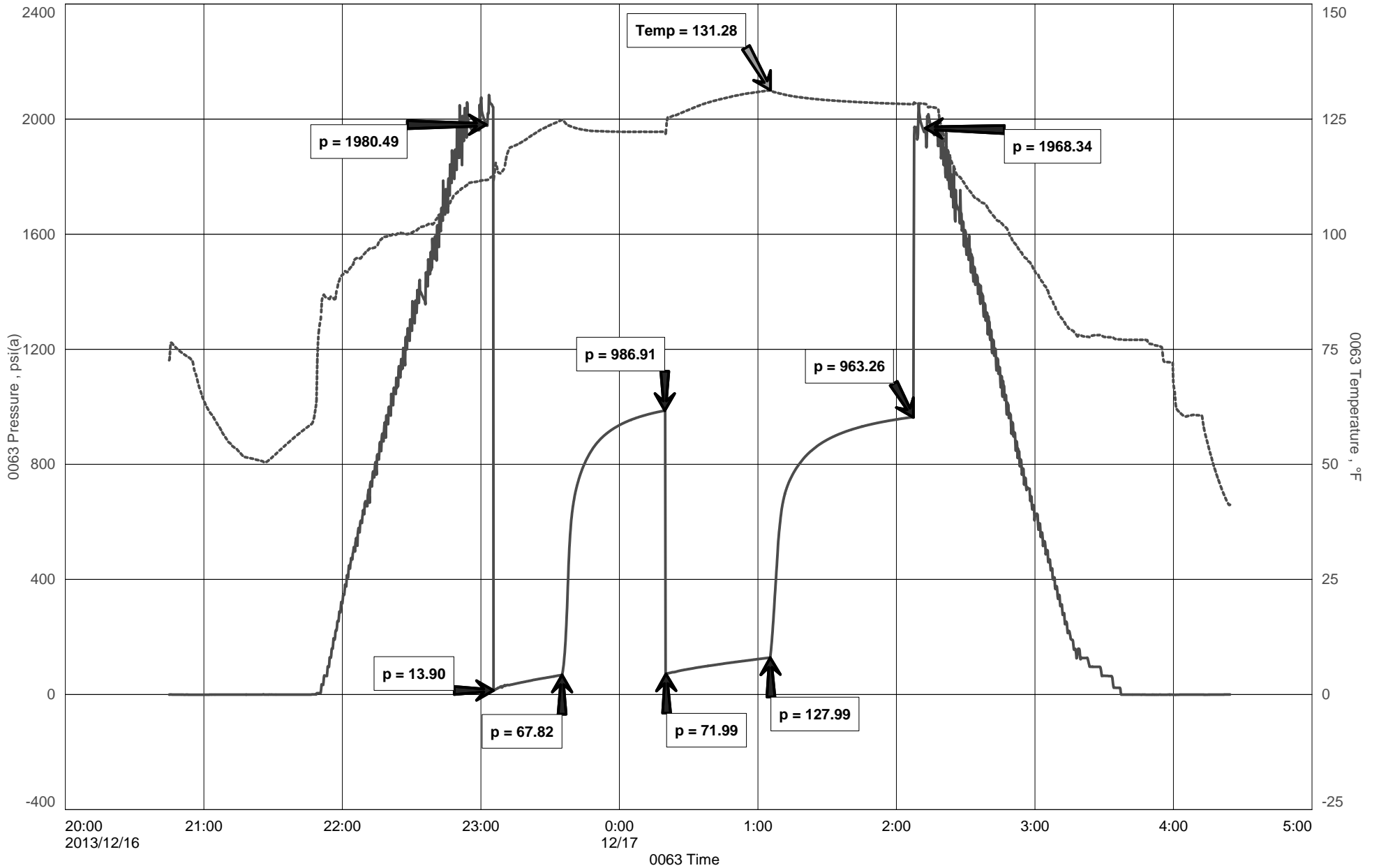
Remarks RECOVERED:
242' GIP
2' CO 100% OIL
71' GSOCWM 2% GAS, 10% EMULSIFIED OIL, 32% WTR, 56% MUD
189' OSMW 4% OIL, 86% WTR, 10% MUD
262' TOTAL FLUID

GRAVITY: 40.2 @ 60 DEG

CHLOR: 37,000 PPM
PH:7.0
RW: .18 @ 70 DEG

TOOL SAMPLE: MOSTLY GAS W/ SOME OIL

SOFT TAIL #1-29





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SFTTL1-29DST3

TIME ON: 2045 (12/16)
TIME OFF: 0425 (12/17)

Company L.D. DRILLING, INC. Lease & Well No. SOFT TAIL #1-29
Contractor KIM SHOEMAKER Charge to L.D. DRILLING, INC.
Elevation 2614 KB Formation PAWNEE/FT.SCOTT Effective Pay _____ Ft. Ticket No. M594
Date 12/16/2013 Sec. 29 Twp. _____ 14 S Range _____ 29 W County GOVE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 4077 ft. to 4170 ft. Total Depth 4170 ft.
Packer Depth 4072 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4077 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4059 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 4079 ft. Recorder Number E1150 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 49 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,000 P.P.M. Drill Pipe Length 4045 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 93 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: 3/4" BLOW RIGHT AWAY, INC. TO 6 1/4" IN 21 MIN THEN MAINTAINED AN INTERMITTENT BLOW (NO BB)
2nd Open: WSB, INC TO 4" IN 25 MIN THEN DIMINISHING TO 2" BY SHUT IN (NO BB)

Recovered <u>242</u> ft. of <u>GIP</u>	GRAVITY: <u>40.2 @ 60°</u>
Recovered <u>2</u> ft. of <u>CO 100% OIL</u>	
Recovered <u>71</u> ft. of <u>GSOCWM 2% GAS, 10% EMULSIFIED OIL, 32% WTR, 56% MUD</u>	
Recovered <u>189</u> ft. of <u>OSMW 4% OIL, 86% WTR, 10% MUD</u>	
Recovered <u>262</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of <u>CHLOR: 37,000 PPM PH: 7.0</u>	Other Charges
Remarks: <u>RW: .18 @ 70 DEG</u>	Insurance
<u>TOOL SAMPLE: MOSTLY GAS W/ SOME OIL</u>	Total

Time Set Packer(s) 11:00 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 2:00 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 131°F

Initial Hydrostatic Pressure..... (A) 1980 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 68 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 987 P.S.I.
Final Flow Period..... Minutes 45 (E) 72 P.S.I. to (F) 128 P.S.I.
Final Closed In Period..... Minutes 60 (G) 963 P.S.I.
Final Hydrostatic Pressure..... (H) 1968 P.S.I.

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