

DIAMOND TESTING

Pressure Survey Report

General Information

| | | | |
|------------------|--------------------------------|----------------|---------------------|
| Company Name | L.D. DRILLING, INC. | Job Number | M619 |
| Well Name | AIKEN #1-20 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#2 3395-3475 LANS. I J K | Well Operator | L.D. DRILLING, INC. |
| Surface Location | SEC.20-22S-11W STAFFORD CO.KS. | Report Date | |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | JIM MUSGROVE |
| | | Test Unit | NO. 3 |

Test Information

| | | | |
|---------------------|-----------------------------|-----------------|----------|
| Test Type | CONVENTIONAL | | |
| Formation | DST#2 3395-3475 LANS. I J K | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2014/02/28 | Start Test Time | 16:15:00 |
| Final Test Date | 2014/02/28 | Final Test Time | 22:55:00 |
| | | Well Fluid Type | 01 Oil |
| Gauge Name | 0063 | | |
| Gauge Serial Number | | | |

Test Results

Remarks RECOVERED:

180' GIP
73' GSOSWM 12% GAS, 14% OIL, 32% WTR, 42% MUD
369' VSOSGMW 2% GAS, 93% WTR, 5% MUD W/ A VERY THIN SCUM OF OIL (252' DP 117'DC)
442' TOTAL FLUID

CHLOR: 60,000 PPM
PH: 7.0
RW: .15 @ 60 DEG

TOOL SAMPLE: 1% GAS, 4% OIL, 94% WTR, 1% MUD



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: AKN1-20DST2

TIME ON: 1615
 TIME OFF: 2255

Company L.D. DRILLING, INC. Lease & Well No. AIKEN #1-20
 Contractor PETROMARK DRILLING, LLC-RIG 2 Charge to L.D. DRILLING, INC.
 Elevation 1836 GL EST. Formation LANS. I J K Effective Pay _____ Ft. Ticket No. M619
 Date 2/28/2014 Sec. 20 Twp. _____ 22 S Range _____ 11 W County STAFFORD State KANSAS
 Test Approved By JIM MUSGROVE Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3395 ft. to 3475 ft. Total Depth 3475 ft.
 Packer Depth 3390 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
 Packer Depth 3395 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3384 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3472 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 50 Drill Collar Length 117 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 9.7 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 7,600 P.P.M. Drill Pipe Length 3253 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 80 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (63'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: SSB, BOB 5 MIN (2"BB)
 2nd Open: GSB, BOB 14 MIN (2"BB)

Recovered 180 ft. of GIP
 Recovered 73 ft. of GSOSWM 12% GAS, 14% OIL, 32% WTR, 42% MUD
 Recovered 369 ft. of VSOSGMW 2% GAS, 93% WTR, 5% MUD W/ A VERY THIN SCUM OF OIL (252' DP 117'DC)
 Recovered 442 ft. of TOTAL FLUID

| | |
|---|---------------|
| Recovered _____ ft. of <u>CHLOR: 60,000 PPM</u> | Price Job |
| Recovered _____ ft. of <u>PH: 7.0</u> | Other Charges |
| Remarks: <u>RW: .15 @ 60 DEG</u> | Insurance |
| <u>TOOL SAMPLE: 1% GAS, 4% OIL, 94% WTR, 1% MUD</u> | Total |

Time Set Packer(s) 6:15 P.M. A.M. P.M. Time Started Off Bottom 8:45 P.M. A.M. P.M. Maximum Temperature 107°F

Initial Hydrostatic Pressure..... (A) 1633 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 32 P.S.I. to (C) 128 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 663 P.S.I.
 Final Flow Period..... Minutes 45 (E) 134 P.S.I. to (F) 213 P.S.I.
 Final Closed In Period..... Minutes 45 (G) 661 P.S.I.
 Final Hydrostatic Pressure..... (H) 1632 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.

L.D. DRILLING, INC.
DST#2 3395-3475 LANS. I J K
Start Test Date: 2014/02/28
Final Test Date: 2014/02/28

AIKEN #1-20
Formation: DST#2 3395-3475 LANS. I J K
Pool: WILDCAT
Job Number: M619

AIKEN #1-20

