



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: 1-15DWDDST1

TIME ON: 0605
TIME OFF: 1515

Company L.D. DRILLING, INC. Lease & Well No. #1-15 DOWD
Contractor L.D.DRILLING,INC.RIG 1 Charge to L.D. DRILLING, INC.
Elevation 2684 KB Formation L/KC 220' ZONE Effective Pay _____ Ft. Ticket No. M816
Date 2/6/2016 Sec. 15 Twp. _____ 18 S Range _____ 27 W County LANE State KANSAS
Test Approved By KIM SHOEMAKER Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 4283 ft. to 4305 ft. Total Depth 4305 ft.
Packer Depth 4278 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 4283 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4265 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4285 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth 4302 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Mud Type CHEM Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,700 P.P.M. Drill Pipe Length 4251 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 22 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: WSB, INCREASE TO 6" (NO BB)
2nd Open: VWSB, INCREASE TO 8 (NO BB)

Recovered <u>370</u> ft. of <u>GIP</u>	
Recovered <u>~1</u> ft. of <u>CO 100% OIL</u>	GRAVITY: 37.9 @ 60°
Recovered <u>139</u> ft. of <u>VSOSMW 88% WTR, 12% MUD W/ A FEW SPECKS OF OIL</u>	
Recovered <u>140</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of <u>CHLOR: 46,000 PPM</u>	Price Job
Recovered _____ ft. of <u>RW: .29 @ 59 DEG</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
<u>TOOL SAMPLE: 99% WTR, 1% MUD W/ A FEW SPECKS OF OIL</u>	Total

Time Set Packer(s) 10:00 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 1:00 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 119°F

Initial Hydrostatic Pressure..... (A) 2102 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 42 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1012 P.S.I.
Final Flow Period..... Minutes 45 (E) 43 P.S.I. to (F) 80 P.S.I.
Final Closed In Period..... Minutes 60 (G) 997 P.S.I.
Final Hydrostatic Pressure..... (H) 2054 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.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	L.D. DRILLING, INC.	Job Number	M816
Well Name	#1-15 DOWD	Representative	MIKE COCHRAN
Unique Well ID	DST#1 4283-4305 L/KC 220' ZONE	Well Operator	RAYMOND OIL COMPANY, INC.
Surface Location	SEC.15-18S-27W LANE CO.KS.	Report Date	2016/02/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	KIM SHOEMAKER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 4283-4305 L/KC 220' ZONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2016/02/06	Start Test Time	06:05:00
Final Test Date	2016/02/06	Final Test Time	15:15:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
370' GIP
~1' CO 100% OIL
139' VSOSMW 88% WTR, 12% MUD W/ A FEW SPECKS OF OIL
140' TOTAL FLUID

GRAVITY: 37.9 @ 60 DEG

CHLOR: 46,000 PPM
PH:7.0
RW: .29 @ 59 DEG

TOOL SAMPLE: 99% WTR, 1% MUD W/ A FEW SPECKS OF OIL

