

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: KNFFN1DST1

TIME ON: 0140
TIME OFF: 0800

Company RAINS & WILLIAMSON OIL CO., INC. Lease & Well No. KNIFFIN #1
Contractor DUKE DRILLING CO., INC. RIG 7 Charge to RAINS & WILLIAMSON OIL CO., INC.
Elevation 1727 GL Formation ODESSA Effective Pay _____ Ft. Ticket No. M651
Date 5/6/2014 Sec. 33 Twp. _____ 17 S Range _____ 7 W County ELLSWORTH State KANSAS
Test Approved By WYATT URBAN Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 3081 ft. to 3140 ft. Total Depth 3140 ft.
Packer Depth 3076 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3081 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3063 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3083 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 52 Drill Collar Length 185 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,200 P.P.M. Drill Pipe Length 2864 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 59 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" BLOW RIGHT AWAY, DIMINISHING UNTIL DEAD @ 5 MIN, FLUSH TOOL, A SURGE OF BUBBLES THEN NO BLW (NO BB)
2nd Open: A VWSB THAT DIED RIGHT AWAY (NO BB)

Recovered <u>10</u> ft. of <u>VSOSGM 4% GAS, 96% MUD W/ A THICK SCUM OF OIL</u>	
Recovered <u>10</u> ft. of <u>TOTAL FLUID</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>~100% MUD W/ A THIN SCUM OF OIL</u>	Total

Time Set Packer(s) 4:00 A.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 6:00 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 110°F
Initial Hydrostatic Pressure..... (A) 1460 P.S.I.
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 16 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 48 P.S.I.
Final Flow Period..... Minutes 30 (E) 19 P.S.I. to (F) 20 P.S.I.
Final Closed In Period..... Minutes 30 (G) 38 P.S.I.
Final Hydrostatic Pressure..... (H) 1453 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	RAINS & WILLIAMSON OIL CO.,INC.	Job Number	M651
Well Name	KNIFFIN #1	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3081-3140 ODESSA	Well Operator	RAINS & WILLIAMSON OIL CO.,INC.
Surface Location	SEC.33-17S-7W ELLSWORTH CO.KS.	Report Date	2014/05/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	WYATT URBAN
		Test Unit	NO. 3

Test Information

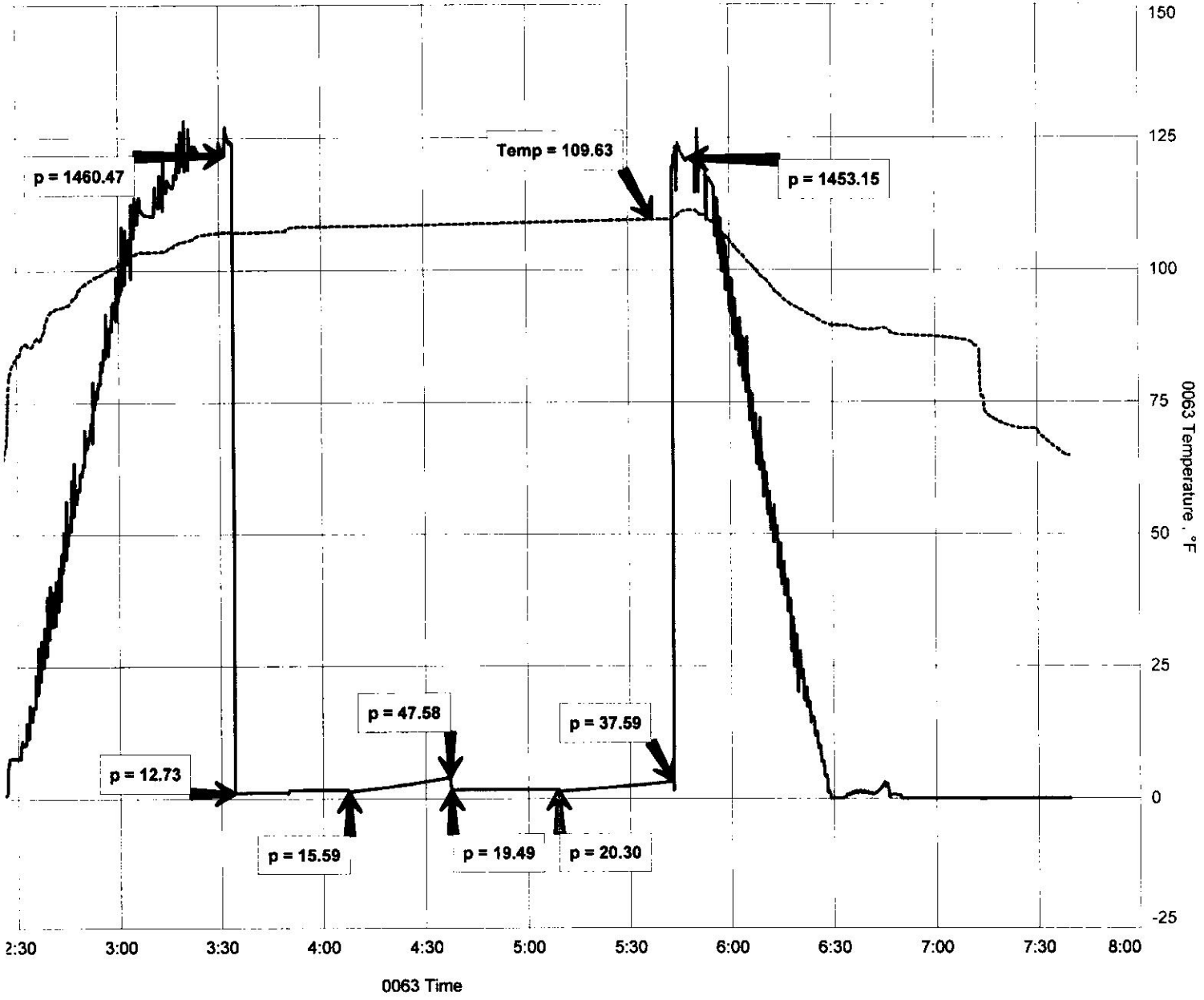
Test Type	CONVENTIONAL		
Formation	DST#1 3081-3140 ODESSA		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/05/06	Start Test Time	01:20:00
Final Test Date	2014/05/06	Final Test Time	08:00:00
		Well Fluid Type	01 OIL
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
10' VSOSGM 4% GAS, 96% MUD W/ A THICK SCUM OF OIL
10' TOTAL FLUID

TOOL SAMPLE: ~100% MUD W/ A THIN SCUM OF OIL

KNIFFIN #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: KNFFN1DST2

TIME ON: 1945 (5/6)
TIME OFF: 0155 (5/7)

Company RAINS & WILLIAMSON OIL CO., INC. Lease & Well No. KNIFFIN #1
Contractor DUKE DRILLING CO., INC. RIG 7 Charge to RAINS & WILLIAMSON OIL CO., INC.
Elevation 1727 GL Formation CONGL/KINDERHOOK Effective Pay _____ Ft. Ticket No. M652
Date 5/6/2014 Sec. 33 Twp. _____ 17 S Range _____ 7 W County ELLSWORTH State KANSAS
Test Approved By JIM MUSGROVE Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 3171 ft. to 3228 ft. Total Depth 3228 ft.
Packer Depth 3166 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 3171 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3153 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 3173 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 56 Drill Collar Length 185 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 9.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,300 P.P.M. Drill Pipe Length 2954 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 57 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (31'DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB THAT DIED IN 5 MIN (NO BB)
2nd Open: NO BLOW (NO BB)

Recovered <1 ft. of VSOSM ~100% DM W/ SOME SPECKS OF OIL
Recovered <1 ft. of TOTAL FLUID
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____
TOOL SAMPLE: ~100% MUD W/ A THIN SCUM OF OIL

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 9:45 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 11:45 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 111°F
Initial Hydrostatic Pressure..... (A) 1475 P.S.I.
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 10 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 21 P.S.I.
Final Flow Period..... Minutes 30 (E) 9 P.S.I. to (F) 10 P.S.I.
Final Closed In Period..... Minutes 30 (G) 15 P.S.I.
Final Hydrostatic Pressure..... (H) 1461 P.S.I.

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DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RAINS & WILLIAMSON OIL CO.,INC.	Job Number	M652
Well Name	KNIFFIN #1	Representative	MIKE COCHRAN
Unique Well ID	DST#2 3171-3228 CONGL./KINDERHOOK	Well Operator	RAINS & WILLIAMSON OIL CO.,INC.
Surface Location	SEC.33-17S-7W ELLSWORTH CO.KS.	Report Date	2014/05/06
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	WYATT URBAN
	Test Unit		NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 3171-3228 CONGL./KINDERHOOK		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/05/06	Start Test Time	19:45:00
Final Test Date	2014/05/07	Final Test Time	01:55:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
 <1 VSOSM ~100% DM W/ SOME SPECKS OF OIL
 <1' TOTAL FLUID

TOOL SAMPLE: ~100% MUD W/ A THIN SCUM OF OIL

KNIFFIN #1

