

Company Apex Oil Company Lease & Well No. Richardson #1
 Elevation 1106 Kelly Bushing Formation Burgess Effective Pay -- Ft. Ticket No. 14076
 Date 2/13/82 Sec. 13 Twp. 29S Range 12E County Elk State Kansas
 Test Approved by Thomas J. Dyke Western Representative Kenny Kirkendall
 Formation Test No. 1 Interval Tested from 1697 ft. to 1702 ft. Total Depth 1702 ft.
 Packer Depth 1697 ft. Size 5-1/2 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 1700 ft. Recorder Number 2605 Cap. 4150
 Bottom Recorder Depth (Outside) 1692 ft. Recorder Number 10979 Cap. 4100
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Mar Jan Drlg. Rig #3 Drill Collar Length 120 I. D. - in.
 Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 16.8 cc. Drill Pipe Length - I. D. - in.
 Chlorides 2,600 P.P.M. Test Tool Length - ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 403 Anchor Length - ft. Size 5 1/2 in.
 Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 6 1/4 in. Tool Joint Size 2-7/8 IF in.

Blow: Good blow initial flow period; fair blow final flow period.

Recovered 440 ft. of free gassy oil
 Recovered 400 ft. of muddy salt water (slightly oil and gas cut)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

MISRUN NO SHUT-IN PRESSURES

Time Set Packer(s) 6:30 A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature ?
 Initial Hydrostatic Pressure 792 P.S.I.
 Initial Flow Period 180 Minutes (B) 125 P.S.I. to (C) 373 P.S.I.
 Initial Closed In Period -- Minutes (D) -- P.S.I.
 Final Flow Period -- Minutes (E) -- P.S.I. to (F) -- P.S.I.
 Final Closed In Period -- Minutes (G) -- P.S.I.
 Final Hydrostatic Pressure 792 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 2/13/82 Recorder No. 2605 Capacity 4150 Test Ticket No. 14076
 Location 1700 Ft. --
 Clock No. ---- Elevation 1106 Kelly Bushing Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	792	P.S.I.	6:30	M
B First Initial Flow Pressure	125	P.S.I.	30	Mins. 180 Mins.
C First Final Flow Pressure	373	P.S.I.	30	Mins. -- Mins.
D Initial Closed-in Pressure	--	P.S.I.	60	Mins. -- Mins.
E Second Initial Flow Pressure	--	P.S.I.	60	Mins. -- Mins.
F Second Final Flow Pressure	--	P.S.I.		
G Final Closed-in Pressure	--	P.S.I.		
H Final Hydrostatic Mud	792	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>36</u> Inc.		Breakdown: <u>0</u> Inc.		Breakdown: <u>0</u> Inc.		Breakdown: <u>0</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	125						
P 2 5	125						
P 3 10	128						
P 4 15	142						
P 5 20	157						
P 6 25	173						
P 7 30	198						
P 8 35	207						
P 9 40	234						
P10 45	240						
P11 50	244						
P12 55	253						
P13 60	258						
P14 65	265						
P15 70	270						
P16 75	277						
P17 80	286						
P18 85	290						
P19 90	296						
P20 95	301						
WTC 100	307						

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WESTERN TESTING CO., INC.

Pressure Data

Date 2/13/82 Recorder No. 2605 Capacity 4150 Test Ticket No. 14076
 Location 1700 Ft. ---
 Clock No. ---- Elevation 1106 Kelly Bushing Well Temperature --- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>792</u> P.S.I.	Open Tool	<u>6:30</u>	<u>M</u>
B First Initial Flow Pressure	<u>125</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>180</u> Mins.
C First Final Flow Pressure	<u>373</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>--</u> Mins.
D Initial Closed-in Pressure	<u>--</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>--</u> Mins.
E Second Initial Flow Pressure	<u>--</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>--</u> P.S.I.			
G Final Closed-in Pressure	<u>--</u> P.S.I.			
H Final Hydrostatic Mud	<u>792</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>36</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>0</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>0</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>105</u> <u>313</u>						
P 2	<u>110</u> <u>320</u>						
P 3	<u>115</u> <u>324</u>						
P 4	<u>120</u> <u>334</u>						
P 5	<u>125</u> <u>337</u>						
P 6	<u>130</u> <u>341</u>						
P 7	<u>135</u> <u>344</u>						
P 8	<u>140</u> <u>348</u>						
P 9	<u>145</u> <u>351</u>						
P10	<u>150</u> <u>354</u>						
P11	<u>155</u> <u>357</u>						
P12	<u>160</u> <u>360</u>						
P13	<u>165</u> <u>364</u>						
P14	<u>170</u> <u>368</u>						
P15	<u>175</u> <u>371</u>						
P16	<u>180</u> <u>373</u>						
P17							
P18							
P19							
P20							

TKT # 14076

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