Company Range Oil Company, Inc. Lease & Well No. Scholfield #2

Elevation 1298 Kelly Bushing Formation Cleveland Effective Pay - Ft. Ticket No. 8190

Date 6/3/81 Sec. 13 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Joe Baker Western Representative Allen Edgington

Formation Test No. 1 Interval Tested from 2594 ft. to 2635 ft. Total Depth 2635 ft.

Packer Depth 2589 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2594 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) Ap 2583 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2600 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drlg. Rig #2 Drill Collar Length 212 I. D. 2¼ in.

Mud Type chemical Viscosity 36 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 12.5 cc. Drill Pipe Length 2362 I. D. 3.8 in.

Chlorides 2,500 P.P.M. Test Tool Length 23 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 41 ft. Size 4½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½ in.

Blow: Weak six minutes intermittenly to fifteen minutes when pulling slip on second opening ; tool was flushed.

Recovered 10 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 ~~A.M.~~ P.M. Time Started Off Bottom 2:15 A.M. ~~P.M.~~ Maximum Temperature 108°

Initial Hydrostatic Pressure		(A) 1255 P.S.I.		
Initial Flow Period	Minutes 30	(B) 29 * P.S.I.	to (C) 137 * P.S.I.	
Initial Closed In Period	Minutes 27	(D) 697 P.S.I.		
Final Flow Period	Minutes 45	(E) 27 * P.S.I.	to (F) 143 * P.S.I.	
Final Closed In Period	Minutes 42	(G) 664 P.S.I.		
Final Hydrostatic Pressure		(H) 1215 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 6/3/81 Test Ticket No. 8190

Recorder No. 5666 Capacity 3950 Location 2583 Ft.

Clock No. ----- Elevation 1298 Kelly Bushing Well Temperature 108 F

Point		Pressure	
A	Initial Hydrostatic Mud	1255	P.S.I.
B	First Initial Flow Pressure	29 *	P.S.I.
C	First Final Flow Pressure	137 *	P.S.I.
D	Initial Closed-in Pressure	697	P.S.I.
E	Second Initial Flow Pressure	27 *	P.S.I.
F	Second Final Flow Pressure	143 *	P.S.I.
G	Final Closed-in Pressure	664	P.S.I.
H	Final Hydrostatic Mud	1215	P.S.I.

	Time Given	Time Computed
Open Tool	11:45P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	27 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	45 Mins.	42 Mins.

*PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	29 *
P 2	5	45 *
P 3	10	71 *
P 4	15	147*
P 5	20	122*
P 6	25	167*
P 7	30	137*
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	137 *
	3	214
	6	327
	9	418
	12	482
	15	540
	18	584
	21	629
	24	669
	27	697

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	27 *
	5	39 *
	10	45 *
	15	53 *
	20	59 *
	25	67 *
	30	61 *
	35	71 *
	40	124 *
	45	143 *

Flushed tool

Final Shut-In
Breakdown: 14 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	143 *
	3	188
	6	216
	9	286
	12	341
	15	386
	18	429
	21	471
	24	508
	27	544
	30	572
	33	598
	36	622
	39	645
	42	664

WTC - 4

IKT # 8190

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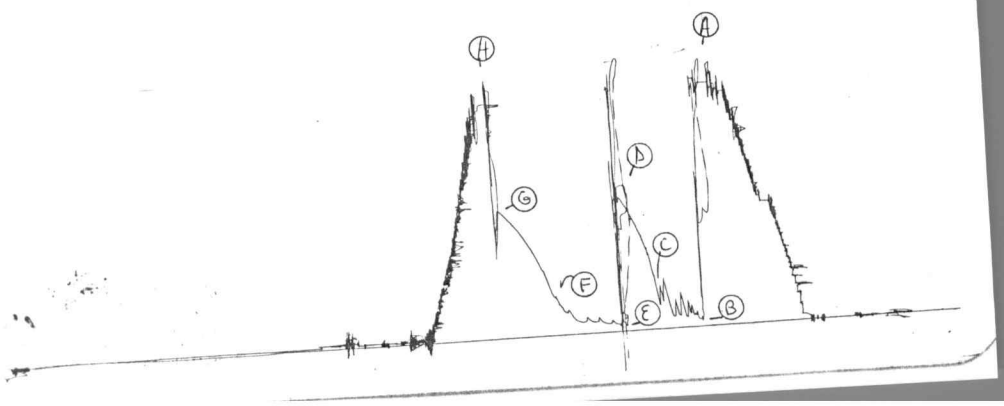

Company Range Oil Company, Inc. Lease & Well No. Scholfield #2

Elevation 1298 Kelly Bushing Formation Bartlesville Sand Effective Pay - Ft. Ticket No. 8191

Date 6/5/81 Sec. 13 Twp. 32S Range 5E County Cowley State Kansas

Test Approved by Joe M Baker Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 2974 ft. to 3000 ft. Total Depth 3000 ft.

Packer Depth 2969 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2974 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2993 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 2996 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Drilling Rig #2 Drill Collar Length 212 I. D. 2¼ in.

Mud Type Chemical Viscosity 59 Weight Pipe Length - I. D. - in.

Weight 9.4 Water Loss 12.8 cc. Drill Pipe Length 2757 I. D. 3.8 in.

Chlorides 2000 P.P.M. Test Tool Length 20 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 26 ft. Size 4½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak for 33 minutes. Had to pickup high on final flow period. to pull slips and flushed tool.

Recovered 120 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:15 A.M. ~~P.M.~~ Time Started Off Bottom 2:00 ~~A.M.~~ P.M. Maximum Temperature 114

Initial Hydrostatic Pressure ..... (A) 1496 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 49 P.S.I. to (C) 67 P.S.I.

Initial Closed In Period ..... Minutes 27 (D) 950 P.S.I.

Final Flow Period ..... Minutes 45 (E) 64 P.S.I. to (F) 80 P.S.I.

Final Closed In Period ..... Minutes 57 (G) 928 P.S.I.

Final Hydrostatic Pressure ..... (H) 1476 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 6/5/81 Test Ticket No. 8191

Recorder No. 5666 Capacity 3950 Location 2993 Ft.

Clock No. - Elevation 1298 Kelly Bushing Well Temperature 114 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1496 P.S.I.	Open Tool	11:15A M	
B First Initial Flow Pressure	49 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	67 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	950 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	64 P.S.I.	Final Closed-in Pressure	60 Mins.	57 Mins.
F Second Final Flow Pressure	80 P.S.I.			
G Final Closed-in Pressure	928 P.S.I.			
H Final Hydrostatic Mud	1476 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	49
P 2 5	49
P 3 10	49
P 4 15	49
P 5 20	49
P 6 25	51
P 7 30	67
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	67
3	129
6	388
9	731
12	859
15	898
18	924
21	936
24	944
27	950
3	

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	64
5	Flushed Tool 64
10	64
15	65
20	67
25	69
30	70
35	76
40	77
45	80

Final Shut-In
Breakdown: 19 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	80
3	108
6	202
9	394
12	653
15	789
18	847
21	871
24	884
27	892
30	900
33	906
36	910
39	914
42	918
45	921
48	923
51	925
54	927
57	928

IKT # 8191