Company Aspen Oil, Inc. Lease & Well No. Keller #2

Elevation 1702 Kelly Bushing Formation Lansing Effective Pay - Ft. Ticket No. 12662

Date 10/30/81 Sec. 5 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Wesley Hansen Western Representative Ray Schwager - Gregory Saffa

Formation Test No. 1 Interval Tested from 2900 ft. to 2920 ft. Total Depth 2920 ft.

Packer Depth 2895 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2900 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2908 ft. Recorder Number 13269 Cap. 4375

Bottom Recorder Depth (Outside) 2911 ft. Recorder Number 13270 Cap. 4375

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

Drilling Contractor Aspen Drilling Rig #1 Drill Collar Length 205 I. D. 2.2 in.

Mud Type Starch Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 15.2 cc. Drill Pipe Length 2673 I. D. 3.8 in.

Chlorides 67,000 P.P.M. Test Tool Length 22 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 20 ft. Size 4½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 5/8 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 3½IF in.

Blow: Initial flow period fair blow building to strong blow. Gas to surface in 15 minutes too weak to guage. Final flow period strong blow throughout.

Recovered 65 ft. of oil & gas cut mud - 15% oil; 16% mud; 6% water; 63% gas

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:00 A.M. ~~P.M.~~ Time Started Off Bottom 10:00 A.M. ~~P.M.~~ Maximum Temperature 100

Initial Hydrostatic Pressure		(A) 1511	P.S.I.	
Initial Flow Period	Minutes 30	(B) 29	P.S.I. to (C) 31	P.S.I.
Initial Closed In Period	Minutes 63	(D) 204	P.S.I.	
Final Flow Period	Minutes 30	(E) 36	P.S.I. to (F) 39	P.S.I.
Final Closed In Period	Minutes 63	(G) 248	P.S.I.	
Final Hydrostatic Pressure		(H) 1504	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 10/30/81 Test Ticket No. 12662

Recorder No. 13269 Capacity 4375 Location 2908 Ft.

Clock No. - Elevation 1702 Kelly Bushing Well Temperature 100 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	1511 P.S.I.	Open Tool		7:00A M	
B First Initial Flow Pressure	29 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C First Final Flow Pressure	31 P.S.I.	Initial Closed-in Pressure		60 Mins.	63 Mins.
D Initial Closed-in Pressure	204 P.S.I.	Second Flow Pressure		30 Mins.	30 Mins.
E Second Initial Flow Pressure	36 P.S.I.	Final Closed-in Pressure		60 Mins.	63 Mins.
F Second Final Flow Pressure	39 P.S.I.				
G Final Closed-in Pressure	248 P.S.I.				
H Final Hydrostatic Mud	1504 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	29
P 2 5	29
P 3 10	29
P 4 15	29
P 5 20	30
P 6 25	31
P 7 30	31
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	31
3	32
6	33
9	35
12	40
15	45
18	50
21	55
24	60
27	64
30	68
33	74
36	82
39	94
42	106
45	120
48	134
51	149
54	162
57	173
60	188
63	204

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

Point Minutes	Press.
0	36
5	36
10	36
15	36
20	37
25	38
30	39

Final Shut-In
Breakdown: 21 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	39
3	40
6	46
9	57
12	69
15	82
18	93
21	104
24	115
27	126
30	137
33	147
36	158
39	169
42	180
45	188
48	199
51	210
54	220
57	230
60	239
63	248

IKT # 12662

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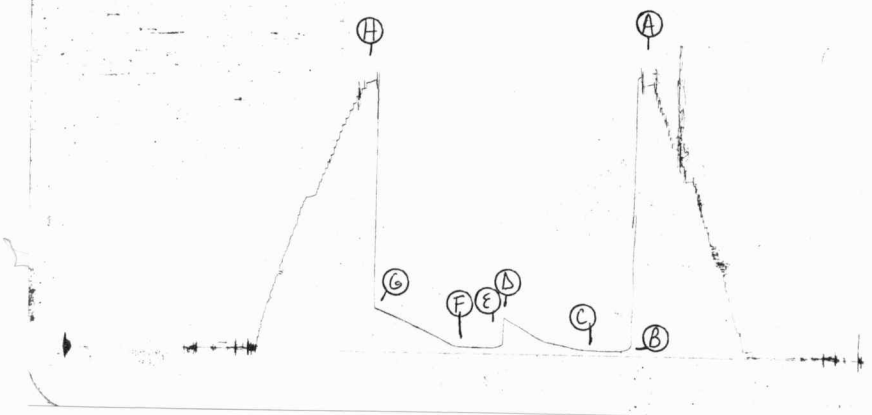

12269

Company Aspen Oil, Inc. Lease & Well No. Keller #2

Elevation 1702 Kelly Bushing Formation Simpson-Arbuckle Effective Pay - Ft. Ticket No. 14608

Date 11/2/81 Sec. 5 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Wesley Hansen Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 3222 ft. to 3264 ft. Total Depth 3264 ft.

Packer Depth 3217 ft. Size 6 5/8 in. Packer Depth 3222 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3232 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3235 ft. Recorder Number 1049 Cap. 4150

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

Drilling Contractor Aspen Drlg. Rig #1 Drill Collar Length 210 I. D. 2.7 in.

Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 18.4 cc. Drill Pipe Length 2990 I. D. 3.2 in.

Chlorides 75,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 42 ft. Size 5½OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 3½IF in.

Blow: Strong. Decreasing during initial flow period. Very good throughout final flow period.

Recovered 90 ft. of very slightly oil cut watery mud

Recovered 180 ft. of very slightly oil cut muddy water

Recovered 2130 ft. of oil spotted water Chlorides 25,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:58 A.M. ~~P.M.~~ Time Started Off Bottom 9:00 A.M. ~~P.M.~~ Maximum Temperature 113°

Initial Hydrostatic Pressure			(A)	1716	P.S.I.	
Initial Flow Period	Minutes 30		(B)	876	P.S.I. to (C)	1092 P.S.I.
Initial Closed In Period	Minutes 60		(D)	1101	P.S.I.	
Final Flow Period	Minutes 30		(E)	1101	P.S.I. to (F)	1102 P.S.I.
Final Closed In Period	Minutes 60		(G)	1105	P.S.I.	
Final Hydrostatic Pressure			(H)	1686	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 11/2/81 Test Ticket No. 14608

Recorder No. 3474 Capacity 3000 Location 3232 Ft.

Clock No. - Elevation 1702 Kelly Bushing Well Temperature 113 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1716	P.S.I.	5:58A M	
B First Initial Flow Pressure	876	P.S.I.	Open Tool 30 Mins.	30 Mins.
C First Final Flow Pressure	1092	P.S.I.	First Flow Pressure 60 Mins.	60 Mins.
D Initial Closed-in Pressure	1101	P.S.I.	Initial Closed-in Pressure 30 Mins.	30 Mins.
E Second Initial Flow Pressure	1101	P.S.I.	Second Flow Pressure 60 Mins.	60 Mins.
F Second Final Flow Pressure	1102	P.S.I.	Final Closed-in Pressure	
G Final Closed-in Pressure	1105	P.S.I.		
H Final Hydrostatic Mud	1686	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	876
P 2	5	936
P 3	10	1006
P 4	15	1045
P 5	20	1071
P 6	25	1085
P 7	30	1092
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1092
3	1093
6	1094
9	1095
12	1096
15	1097
18	1097
21	1098
24	1098
27	1099
30	1099
33	1100
36	1100
39	1101
42	1101
45	1101
48	1101
51	1101
54	1101
57	1101
60	1101

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

Point Minutes	Press.
0	1101
5	1101
10	1101
15	1101
20	1102
25	1102
30	1102

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1102
3	1102
6	1102
9	1102
12	1102
15	1103
18	1103
21	1104
24	1104
27	1105
30	1105
33	1105
36	1105
39	1105
42	1105
45	1105
48	1105
51	1105
54	1105
57	1105
60	1105

IKT # 14608

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