Company Kennedy & Mitchell, Inc. Lease & Well No. Gibson #33-522-2

Elevation 1303 Kelly Bushing Formation Bartlesville Sand Effective Pay - Ft. Ticket No. 9993

Date 11/20/81 Sec. 29 Twp. 29S Range 5E County Butler State Kansas

Test Approved by H. B. Harvey Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2787 ft. to 2815 ft. Total Depth 2815 ft.

Packer Depth 2790 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2785 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2808 ft. Recorder Number 1559 Cap. 4200

Bottom Recorder Depth (Outside) 2811 ft. Recorder Number 13268 Cap. 4225

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

Drilling Contractor Ramco Drlg. Rig #11 Drill Collar Length 120 I. D. 2¼ in.

Mud Type chemical Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.1 Water Loss 12. cc. Drill Pipe Length 2640 I. D. 3.8 in.

Chlorides 4,000 P.P.M. Test Tool Length 27 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 407 Anchor Length 28 ft. Size 5½OD 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: Fair throughout test.

Recovered 1455 ft. of gas in pipe

Recovered 200 ft. of very heavy oil and gas cut mud 90% oil;10% mud

Recovered 15 ft. of slightly oil cut water 5% oil(95% muddy water-52,000 chlorides ppm

(5.2 Resistivity @ 55°F)

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~P.M.~~ A.M. Time Started Off Bottom 2:30 ~~A.M.~~ P.M. Maximum Temperature 108°

Initial Hydrostatic Pressure			(A)	1430	P.S.I.	
Initial Flow Period	Minutes	30	(B)	53	P.S.I. to (C)	71 P.S.I.
Initial Closed In Period	Minutes	60	(D)	1067	P.S.I.	
Final Flow Period	Minutes	60	(E)	88	P.S.I. to (F)	110 P.S.I.
Final Closed In Period	Minutes	123	(G)	1062	P.S.I.	
Final Hydrostatic Pressure			(H)	1410	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 11/20/81 Test Ticket No. 9993

Recorder No. 1559 Capacity 4200 Location 2808 Ft.

Clock No. --- Elevation 1303 Kelly Bushing Well Temperature 108 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1430	P.S.I.	Open Tool	10:00A M	
B	First Initial Flow Pressure	53	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	71	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1067	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	88	P.S.I.	Final Closed-in Pressure	120 Mins.	123 Mins.
F	Second Final Flow Pressure	110	P.S.I.			
G	Final Closed-in Pressure	1062	P.S.I.			
H	Final Hydrostatic Mud	1410	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	53
P 2 5	53
P 3 10	54
P 4 15	61
P 5 20	66
P 6 25	70
P 7 30	71
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	71
3	113
6	230
9	448
12	619
15	733
18	806
21	862
24	916
27	950
30	977
33	998
36	1012
39	1023
42	1031
45	1040
48	1046
51	1051
54	1058
57	1063
60	1067

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	88
5	88
10	88
15	90
20	92
25	94
30	96
35	98
40	100
45	103
50	106
55	108
60	110

Final Shut-In
Breakdown: 41 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	110
3	148
6	222
9	345
12	494
15	592
18	666
21	733
24	783
27	827
30	862
33	889
36	908
39	925
42	939
45	949
48	962
51	972
54	981
57	987
60	994

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WESTERN TESTING CO., INC.
Pressure Data

Date 11/20/81 Test Ticket No. 9993

Recorder No. 1559 Capacity 4200 Location 2808 Ft.

Clock No. --- Elevation 1303 Kelly Bushing Well Temperature 108 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1430	P.S.I.	Open Tool	10:00A M	
B	First Initial Flow Pressure	53	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	71	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1067	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	88	P.S.I.	Final Closed-in Pressure	120 Mins.	123 Mins.
F	Second Final Flow Pressure	110	P.S.I.			
G	Final Closed-in Pressure	1062	P.S.I.			
H	Final Hydrostatic Mud	1410	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	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
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.

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: 41 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	1000
66	1006
69	1010
72	1015
75	1019
78	1023
81	1025
84	1029
87	1033
90	1036
93	1040
96	1042
99	1046
102	1048
105	1050
108	1052
111	1054
114	1056
117	1058
120	1060
123	1062

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TK# 9993

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