Company J. & M. Oil Company — Lease & Well No. Brazer #1

Elevation ----- — Formation Kansas City — Effective Pay - Ft. — Ticket No. 7009

Date 7/30/80 — Sec. 2 — Twp. 19S — Range 11W — County Barton — State Kansas

Test Approved by Dan Nixon — Western Representative Gene Eberhart

Formation Test No. 1 — Interval Tested from 3167 ft. to 3213 ft. — Total Depth 3213 ft.

Packer Depth 3162 ft. — Size 6 5/8 in. — Packer Depth -- ft. — Size - in.

Packer Depth 3167 ft. — Size 6 5/8 in. — Packer Depth -- ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3167 ft. — Recorder Number 969 — Cap. 4200

Bottom Recorder Depth (Outside) 3179 ft. — Recorder Number 10207 — Cap. 5400

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

Drilling Contractor Emphasis Drilling Rig #1 — Drill Collar Length - — I. D. - in.

Mud Type native — Viscosity 40 — Weight Pipe Length - — I. D. - in.

Weight 9.9 — Water Loss 11.4 cc. — Drill Pipe Length 3145 — I. D. 3.8 in.

Chlorides 80,000 P.P.M. — Test Tool Length 22 ft. — Tool Size 5½OD in.

Jars: Make - — Serial Number - — Anchor Length 46 ft. — Size 5½OD in.

Did Well Flow? No — Reversed Out - — 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: Increased to very good blow in five minutes on initial flow period. Very good blow during final flow period.

Recovered 155 ft. of gassy oil cut mud — Top Sample : 50% gas,10% oil;35% mud;5% water)

Recovered ft. of — Middle : 57% gas;14% oil;25% mud;4% water

Recovered ft. of — Bottom : 55% gas;21% oil;21% mud;3% water

Recovered 1986 ft. of gas in pipe

Recovered ft. of

Remarks:

Time Set Packer(s) 7:42 A.M. P.M. — Time Started Off Bottom 10:00 A.M. P.M. — Maximum Temperature 110°

Initial Hydrostatic Pressure			(A)	1773	P.S.I.	
Initial Flow Period	Minutes 15		(B)	73	P.S.I. to (C)	51 P.S.I.
Initial Closed In Period	Minutes 33		(D)	488	P.S.I.	
Final Flow Period	Minutes 60		(E)	88	P.S.I. to (F)	71 P.S.I.
Final Closed In Period	Minutes 36		(G)	457	P.S.I.	
Final Hydrostatic Pressure			(H)	1763	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 7-30-80 Test Ticket No. 7009

Recorder No. 969 Capacity 4200 Location 3176 Ft.

Clock No. ------ Elevation --------- Well Temperature 110 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1773	P.S.I.	Open Tool	7:42 AM	
B	First Initial Flow Pressure	73	P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	51	P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D	Initial Closed-in Pressure	488	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	88	P.S.I.	Final Closed-in Pressure	30 Mins.	36 Mins.
F	Second Final Flow Pressure	71	P.S.I.			
G	Final Closed-in Pressure	457	P.S.I.			
H	Final Hydrostatic Mud	1763	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

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

Final Shut-In
Breakdown: 12 Inc. of 3 mins. and a final inc. of 0 Min.

Point	First Flow Pressure Point Mins.	First Flow Pressure Press.	Initial Shut-In Point Minutes	Initial Shut-In Press.	Second Flow Pressure Point Minutes	Second Flow Pressure Press.	Final Shut-In Point Minutes	Final Shut-In Press.
P 1	0	73	0	51	0	88	0	71
P 2	5	59	3	57	5	73	3	88
P 3	10	51	6	84	10	71	6	116
P 4	15	51	9	120	15	71	9	152
P 5			12	164	20	71	12	197
P 6			15	210	25	71	15	235
P 7			18	254	30	71	18	277
P 8			21	313	35	71	21	313
P 9			24	366	40	71	24	354
P10			27	416	45	71	27	387
P11			30	453	50	71	30	416
P12			33	488	55	71	33	439
P13					60	71	36	457
P14								
P15								
P16								
P17								
P18								
P19								
P20								

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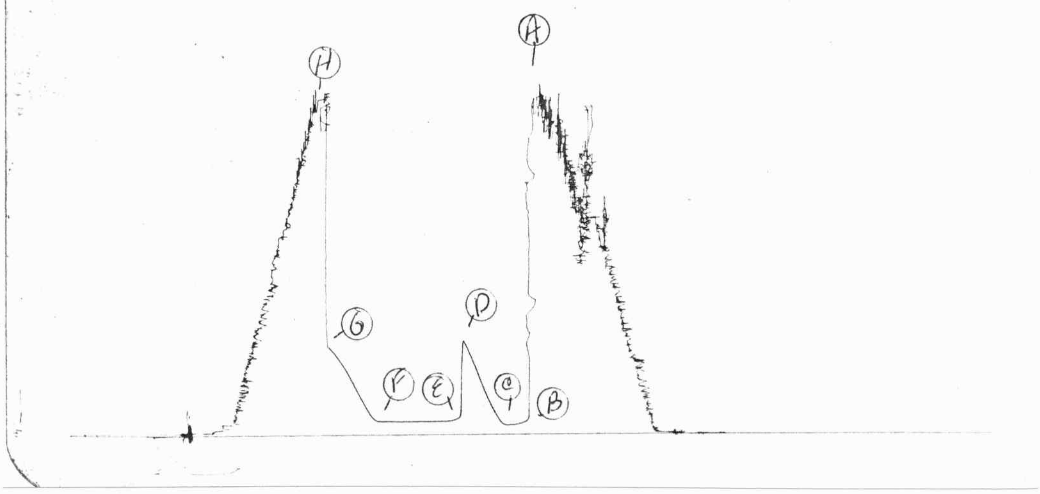

Company J. & M. Oil Company — Lease & Well No. Brazer #1

Elevation -- — Formation Arbuckle — Effective Pay --- Ft. — Ticket No. 7010

Date 7/31/80 — Sec. 2 — Twp. 19S — Range 11W — County Barton — State Kansas

Test Approved by Arnold Michaelis — Western Representative Gene Eberhart

Formation Test No. 2 — Interval Tested from 3319 ft. to 3358 ft. — Total Depth 3358 ft.

Packer Depth 3314 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Packer Depth 3319 ft. — Size 6 5/8 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3141 ft. — Recorder Number 969 — Cap. 4200

Bottom Recorder Depth (Outside) 3144 ft. — Recorder Number 10207 — Cap. 5400

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

Drilling Contractor Emphasis Drilling Rig #1 — Drill Collar Length - — I. D. - in.

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

Weight 9.9 — Water Loss 12.2 cc. — Drill Pipe Length 3297 — I. D. 3.8 in.

Chlorides 81,000 P.P.M. — Test Tool Length 22 ft. — Tool Size 5½OD in.

Jars: Make --- — Serial Number - — Anchor Length 39 ft. — Size 5½ODin.

Did Well Flow? --Reversed Out - — 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 one half inch blow during initial flow period;weak blow during final flow period.

Recovered 5 ft. of oil cut mud (27% oil;58% mud;5% gas No water)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:52 A.M. ~~P.M.~~ — Time Started Off Bottom 10:45 A.M. ~~P.M.~~ — Maximum Temperature 112°

Initial Hydrostatic Pressure ..... (A) 1869 P.S.I.

Initial Flow Period ..... Minutes 20 (B) 85 P.S.I. to (C) 53 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 983 P.S.I.

Final Flow Period ..... Minutes 35 (E) 83 P.S.I. to (F) 53 P.S.I.

Final Closed In Period ..... Minutes 33 (G) 957 P.S.I.

Final Hydrostatic Pressure ..... (H) 1849 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7-31-80 Test Ticket No. 7010

Recorder No. 969 Capacity 4200 Location 3141 Ft.

Clock No. -------- Elevation --------- Well Temperature 112 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1869	P.S.I.
B	First Initial Flow Pressure	85	P.S.I.
C	First Final Flow Pressure	53	P.S.I.
D	Initial Closed-in Pressure	983	P.S.I.
E	Second Initial Flow Pressure	83	P.S.I.
F	Second Final Flow Pressure	53	P.S.I.
G	Final Closed-in Pressure	957	P.S.I.
H	Final Hydrostatic Mud	1849	P.S.I.

	Time Given	Time Computed
Open Tool	8:52 A M	
First Flow Pressure	15 Mins.	20 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	35 Mins.
Final Closed-in Pressure	30 Mins.	33 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	85
P 2 5	67
P 3 10	57
P 4 15	53
P 5 20	53
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	53
3	153
6	379
9	588
12	737
15	828
18	889
21	922
24	951
27	969
30	983

Second Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	83
5	67
10	59
15	53
20	53
25	53
30	53
35	53

Final Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	53
3	92
6	215
9	416
12	598
15	719
18	809
21	860
24	899
27	926
30	942
33	957

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