Company Gear Petroleum Company — Lease & Well No. Miller #1

Elevation 2169 Ground Level — Formation Cherokee — Effective Pay -- Ft. — Ticket No. 620

Date 5/8/79 — Sec. 2 — Twp. 19S — Range 20W — County Rush — State Kansas

Test Approved by John J. Schmidt — Western Representative Benny C. Singleton , Jr.

Formation Test No. 1 — Interval Tested from 4166' ft. to 4187' ft. — Total Depth 4187' ft.

Packer Depth 4161 ft. — Size 6 3/4 in. — Packer Depth 4166 ft. — Size 6 3/4 in.

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

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4180 ft. — Recorder Number 2608 — Cap. 4150 PSI

Bottom Recorder Depth (Outside) 4183 ft. — Recorder Number 3473 — Cap. 4000 PSI

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

Drilling Contractor Red Tiger #4 — Drill Collar Length - — I. D. - in.

Mud Type starch — Viscosity 46 — Weight Pipe Length 950 — I. D. 2.76 in.

Weight 9.9 — Water Loss 8.0 cc. — Drill Pipe Length 3206 — I. D. 3.8 in.

Chlorides 60,000 P.P.M. — Test Tool Length in. — Tool Size 5½ in.

Jars: Make None — Serial Number - — Anchor Length 21' ft. — Size 5½ 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 4½FH in.

Blow: Strong blow;bottom of bucket in one minutes of first opening.

Recovered 1425 ft. of salt water with scum of oil

Recovered ft. of (40,000 chlorides ppm)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:57 A.M. ~~P.M.~~ — Time Started Off Bottom 2:00 ~~A.M.~~ P.M. — Maximum Temperature 124

Initial Hydrostatic Pressure ..... (A) 2304 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 154 P.S.I. to (C) 603 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 669 P.S.I.

Final Flow Period ..... Minutes 30 (E) 640 P.S.I. to (F) 673 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 679 P.S.I.

Final Hydrostatic Pressure ..... (H) 2225 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/8/79 Test Ticket No. 620

Recorder No. 2608 Capacity 4150 Location 4180 Ft.

Clock No. -- Elevation 2169 Ground Level Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2304 P.S.I.	Open Tool	11:57 M	
B First Initial Flow Pressure	154 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	603 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	669 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	640 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	673 P.S.I.			
G Final Closed-in Pressure	679 P.S.I.			
H Final Hydrostatic Mud	2225 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	154
P 2 5	297
P 3 10	437
P 4 15	494
P 5 20	533
P 6 25	578
P 7 30	603
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	603
3	657
6	663
9	665
12	666
15	667
18	667
21	668
24	668
27	669
30	669

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

Point Minutes	Press.
0	640
5	642
10	650
15	657
20	665
25	667
30	673

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

Point Minutes	Press.
0	673
3	675
6	675
9	675
12	675
15	676
18	677
21	678
24	678
27	679
30	679

DST #1

2608

Tkt #620

I