Company Merit Energy Corporation — Lease & Well No. #1-17 Shelman

Elevation --- — Formation Toronto — Effective Pay --- Ft. — Ticket No. 18410

Date 1/13/83 — Sec. 17 — Twp. 33S — Range 31W — County Seward — State Kansas

Test Approved by Joe(?) Blair — Western Representative Jeff Piotrowski

Formation Test No. 1 — Interval Tested from 4301 ft. to 4326 ft. — Total Depth 4326 ft.

Packer Depth 4288 ft. — Size 6 3/4in. — Packer Depth - ft. — Size - in.

Packer Depth 4301 ft. — Size 6 3/4in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4316 ft. — Recorder Number 1565 — Cap. 4900

Bottom Recorder Depth (Outside) 4319 ft. — Recorder Number 6074 — Cap. 5100

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

Drilling Contractor H-30 Drilling Rig #8 — Drill Collar Length 540 — I. D. 2.2 in.

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

Weight 9.1 — Water Loss 10.4 cc. — Drill Pipe Length 3723 — I. D. 3.8 in.

Chlorides 10,000 P.P.M. — Test Tool Length 38 ft. — Tool Size 5½OD in.

Jars: Make WTC — Serial Number 405 — Anchor Length 25 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: Strong through both flow periods.

Recovered 120 ft. of mud

Recovered 90 ft. of muddy water

Recovered 450 ft. of water Chlorides 86,000 ppm

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:05 ~~A.M.~~ P.M. — Time Started Off Bottom 11:35 ~~A.M.~~ P.M. — Maximum Temperature 120°

Initial Hydrostatic Pressure		(A) 2012 P.S.I.		
Initial Flow Period	Minutes 30	(B) 61 P.S.I.	to (C) 163 P.S.I.	
Initial Closed In Period	Minutes 60	(D) 1079 P.S.I.		
Final Flow Period	Minutes 60	(E) 213 P.S.I.	to (F) 284 P.S.I.	
Final Closed In Period	Minutes 120	(G) 1241 P.S.I.		
Final Hydrostatic Pressure		(H) 1978 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 1/13/83 Test Ticket No. 18410

Recorder No. 1565 Capacity 4900 Location 4316 Ft.

Clock No. --- Elevation --- Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2012 P.S.I.		Open Tool	7:05P M	
B	First Initial Flow Pressure	61 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	163 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1079 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	213 P.S.I.		Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	284 P.S.I.				
G	Final Closed-in Pressure	1241 P.S.I.				
H	Final Hydrostatic Mud	1978 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	61
P 2	5	67
P 3	10	88
P 4	15	110
P 5	20	131
P 6	25	151
P 7	30	163
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	163
	3	601
	6	771
	9	842
	12	890
	15	921
	18	948
	21	969
	24	987
	27	997
	30	1009
	33	1020
	36	1030
	39	1038
	42	1046
	45	1053
	48	1059
	51	1066
	54	1071
	57	1076
	60	1079

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

Point	Minutes	Press.
	0	213
	5	213
	10	230
	15	248
	20	251
	25	255
	30	260
	35	262
	40	625
	45	270
	50	275
	55	277
	60	284

Final Shut-In
Breakdown: 40 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	284
	3	697
	6	704
	9	780
	12	947
	15	979
	18	1009
	21	1032
	24	1051
	27	1068
	30	1083
	33	1096
	36	1107
	39	1120
	42	1127
	45	1134
	48	1142
	51	1148
	54	1152
	57	1158
	60	1160

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WESTERN TESTING CO., INC.
Pressure Data

Date 1/13/83 Test Ticket No. 18410

Recorder No. 1565 Capacity 4900 Location 4316 Ft.

Clock No. --- Elevation --- Well Temperature 120 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2012 P.S.I.	Open Tool		7:05P M	
B	First Initial Flow Pressure	61 P.S.I.	First Flow Pressure		30 Mins.	30 Mins.
C	First Final Flow Pressure	163 P.S.I.	Initial Closed-in Pressure		60 Mins.	60 Mins.
D	Initial Closed-in Pressure	1079 P.S.I.	Second Flow Pressure		60 Mins.	60 Mins.
E	Second Initial Flow Pressure	213 P.S.I.	Final Closed-in Pressure		120 Mins.	120 Mins.
F	Second Final Flow Pressure	284 P.S.I.				
G	Final Closed-in Pressure	1241 P.S.I.				
H	Final Hydrostatic Mud	1978 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: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	1166
66	1170
69	1175
72	1177
75	1181
78	1185
81	1191
84	1199
87	1203
90	1209
93	1213
96	1218
99	1223
102	1226
105	1228
108	1232
111	1234
114	1238
117	1240
120	1241

1565'
DST #1

IKT 18410

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