Company: Molz Oil Company | Lease & Well No.: Etta #1

Elevation: 1403 Kelly Bushing | Formation: Chase | Effective Pay: -- Ft. | Ticket No.: 1616

Date: 6/2/79 | Sec.: 23 | Twp.: 34S | Range: 12W | County: Barber | State: Kansas

Test Approved by: Gordon W. Keen | Western Representative: Dave Sloan

Formation Test No.: 1 | Interval Tested from: 1860 ft. to: 1903 ft. | Total Depth: 1903 ft.

Packer Depth: 1855 ft. | Size: 6 3/4 in. | Packer Depth: -- ft. | Size: -- in.

Packer Depth: 1860 ft. | Size: 6 3/4 in. | Packer Depth: -- ft. | Size: -- in.

Depth of Selective Zone Set: --

Top Recorder Depth (Inside): 1890 ft. | Recorder Number: 6246 | Cap.: 5200

Bottom Recorder Depth (Outside): 1893 ft. | Recorder Number: 5673 | Cap.: 5400

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

Drilling Contractor: Sweetman Drilling | Drill Collar Length: 270 | I. D.: 2.2 in.

Mud Type: starch | Viscosity: 40 | Weight Pipe Length: - | I. D.: - in.

Weight: 9.2 | Water Loss: - cc. | Drill Pipe Length: 1662 | I. D.: 3.8 in.

Chlorides: - P.P.M. | Test Tool Length: 28 ft. | Tool Size: 5½OD in.

Jars: Make: Western | Serial Number: 402 | Anchor Length: 43 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 blow throughout test. Gas to surface 23 minutes. See attached sheet for gas measurements.

Recovered: 218 ft. of gas cut mud

Recovered: 90 ft. of gas cut water cut mud

Recovered: ft. of 82,000 chlorides

Recovered: ft. of

Recovered: ft. of

Remarks:

Time Set Packer(s): 8:45 ~~A.M.~~ P.M. | Time Started Off Bottom: 11:45 ~~A.M.~~ P.M. | Maximum Temperature: 95

Initial Hydrostatic Pressure			(A)	916	P.S.I.	
Initial Flow Period	Minutes 30		(B)	76 P.S.I.	to (C)	94 P.S.I.
Initial Closed In Period	Minutes 30		(D)	866 P.S.I.		
Final Flow Period	Minutes 60		(E)	89 P.S.I.	to (F)	149 P.S.I.
Final Closed In Period	Minutes 60		(G)	861 P.S.I.		
Final Hydrostatic Pressure			(H)	882 P.S.I.		

Phone 316 262-5861
316 838-0601

WESTERN TESTERS

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 6/2/79 Ticket 1616 Company Molz Oil Company

Well Name and No. Etta #1 Dst No. 1 Interval Tested 1860'-1903'

County Barber State Kansas Sec. 23 Twp. 34S Rg. 12W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
	25 min.	12" of water	1/2"	orifice		21,900 CFPD
	30 min.	14" of water	1/2"	orifice		23,700 CFPD
			SECOND FLOW			
	10 min.	44" of water	1/2"	orifice		41,600 CFPD
	20 min.	46" of water	1/2"	orifice		42,500 CFPD
	30 min.	50" of water	1/2"	orifice		44,300 CFPD
	40 min.	58" of water	1/2"	orifice		47,800 CFPD
	50 min.	64" of water	1/2"	orifice		50,200 CFPD
	60 min.	66" of water	1/2"	orifice		50,900 CFPD

GAS BOTTLE

Serial No. 631 Date Bottle Filled 6/2/79 Date to be Invoiced 6/2/79

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Molz Oil Company

Authorized by Gordon W. Keen

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 6/2/79 Test Ticket No. 1616

Recorder No. 6246 Capacity 5200 Location 1890 Ft.

Clock No. -- Elevation 1403 Kelly Bushing Well Temperature 95 °F

Point		Pressure	
A	Initial Hydrostatic Mud	916	P.S.I.
B	First Initial Flow Pressure	76	P.S.I.
C	First Final Flow Pressure	94	P.S.I.
D	Initial Closed-in Pressure	866	P.S.I.
E	Second Initial Flow Pressure	89	P.S.I.
F	Second Final Flow Pressure	149	P.S.I.
G	Final Closed-in Pressure	861	P.S.I.
H	Final Hydrostatic Mud	882	P.S.I.

	Time Given	Time Computed
Open Tool	8:45P M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	76
P 2 5	89
P 3 10	93
P 4 15	94
P 5 20	95
P 6 25	94
P 7 30	94
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	94
3	516
6	746
9	824
12	846
15	851
18	854
21	857
24	860
27	866
30	866

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

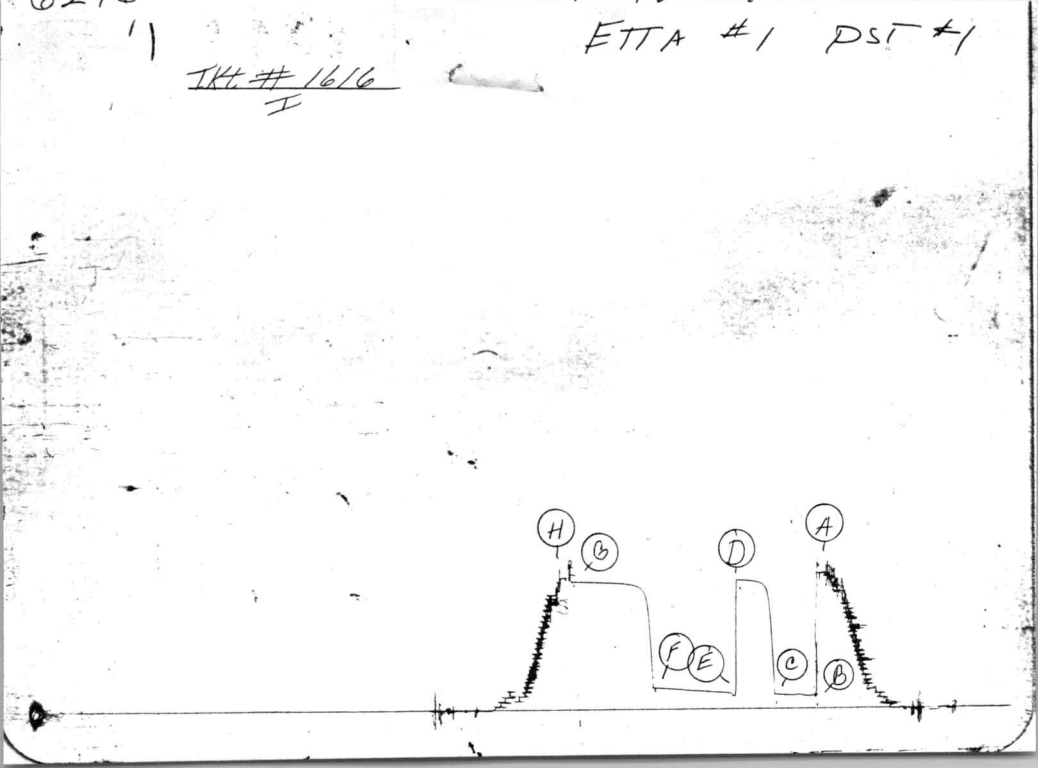
Point Minutes	Press.
0	89
5	107
10	110
15	115
20	118
25	122
30	125
35	129
40	134
45	139
50	143
55	146
60	149

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

Point Minutes	Press.
0	149
3	563
6	751
9	804
12	825
15	835
18	838
21	841
24	844
27	846
30	848
33	850
36	852
39	854
42	856
45	856
48	858
51	858
54	860
57	861
60	861

ETTA #1 DST #1

IKH # 1616
I



Company Molz Oil Company — Lease & Well No. Etta #1

Elevation 1403 Kelly Bushing — Formation Mississippi — Effective Pay -- — Ft. — Ticket No. 1620

Date 6/7/79 — Sec. 23 — Twp. 34S — Range 12W — County Barber — State Kansas

Test Approved by Gordon W. Keen — Western Representative Dave Sloan

Formation Test No. 2 — Interval Tested from 4658 ft. to 4690 ft. — Total Depth 4690 ft.

Packer Depth 4653 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4658 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4682 ft. — Recorder Number 6246 — Cap. 5200

Bottom Recorder Depth (Outside) 4685 ft. — Recorder Number 5673 — Cap. 5400

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

Drilling Contractor Sweetman Drilling — Drill Collar Length 270 — I. D. 2.2 in.

Mud Type starch — Viscosity 45 — Weight Pipe Length - — I. D. - in.

Weight 9.4 — Water Loss 8.8 cc. — Drill Pipe Length 4360 — I. D. 3.8 in.

Chlorides — P.P.M. — Test Tool Length 28 ft. — Tool Size 5½OD in.

Jars: Make Western — Serial Number 402 — Anchor Length 32 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 blow throughout test. Gas to surface four minutes of final flow period. See attached sheet for gas measurements.

Recovered 75 ft. of slightly gas cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: READ RECORDER 5673

Time Set Packer(s) 7:40 A.M. ~~P.M.~~ — Time Started Off Bottom 12:10 ~~A.M.~~ P.M. — Maximum Temperature 128

Initial Hydrostatic Pressure			(A) 2335	P.S.I.		
Initial Flow Period	Minutes 30	(B) 68	P.S.I. to	(C) 60	P.S.I.	
Initial Closed In Period	Minutes 39	(D) 945	P.S.I.			
Final Flow Period	Minutes 60	(E) 52	P.S.I. to	(F) 49	P.S.I.	
Final Closed In Period	Minutes 120	(G) 1638	P.S.I.			
Final Hydrostatic Pressure			(H) 2289	P.S.I.		

Phone 316 262-5861
316 838-0601

P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date 6/7/79 Ticket 1620 Company Molz Oil Company

Well Name and No. Etta #1 Dst No. 2 Interval Tested 4658'-4690'

County Barber State Kansas Sec. 23 Twp. 34S Rg. 12W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						
SECOND FLOW						Gas to surface four minutes on final flow.
	10 min.	5" of water 1/4" orifice				3,710 CFPD
	20 min.	8" of water 1/4" orifice				4,760 CFPD
	30 min.	10" of water 1/4" orifice				5,320 CFPD
	40 min.	10" of water 1/4" orifice				5,320 CFPD
	50 min.	10" of water 1/4" orifice				5,320 CFPD
	60 min.	11" of water 1/4" orifice				5,600 CFPD

GAS BOTTLE

Serial No. --- Date Bottle Filled --- Date to be Invoiced 6/7/79

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1% per month, equal to 12% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Molz Oil Company

Authorized by Gordon W. Keen

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 6/7/79 | Test Ticket No. 1620

Recorder No. 5673 | Capacity 5400 | Location 4682 Ft.

Clock No. -- | Elevation 1403 Kelly Bushing | Well Temperature 128 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2335	P.S.I.
B	First Initial Flow Pressure	68	P.S.I.
C	First Final Flow Pressure	60	P.S.I.
D	Initial Closed-in Pressure	945	P.S.I.
E	Second Initial Flow Pressure	52	P.S.I.
F	Second Final Flow Pressure	49	P.S.I.
G	Final Closed-in Pressure	1638	P.S.I.
H	Final Hydrostatic Mud	2289	P.S.I.

	Time Given	Time Computed
Open Tool	7:40A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	39 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	120 Mins.	120 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	68
P 2 5	63
P 3 10	60
P 4 15	60
P 5 20	60
P 6 25	60
P 7 30	60
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	60
3	115
6	183
9	256
12	339
15	415
18	511
21	590
24	665
27	740
30	811
33	847
36	898
39	945

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

Point Minutes	Press.
0	52
5	49
10	49
15	49
20	49
25	49
30	49
35	49
40	49
45	49
50	49
55	49
60	49

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

Point Minutes	Press.
0	49
3	123
6	213
9	317
12	478
15	628
18	743
21	858
24	983
27	1089
30	1183
33	1259
36	1335
39	1389
42	1438
45	1476
48	1505
51	1529
54	1554
57	1568
60	158

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 6/7/79 | Test Ticket No. 1620

Recorder No. 5673 | Capacity 5400 | Location 4682 Ft.

Clock No. -- | Elevation 1403 Kelly Bushing | Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2335	P.S.I.	Open Tool	7:40A M	
B	First Initial Flow Pressure	68	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	60	P.S.I.	Initial Closed-in Pressure	60 Mins.	39 Mins.
D	Initial Closed-in Pressure	945	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	52	P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	49	P.S.I.			
G	Final Closed-in Pressure	1638	P.S.I.			
H	Final Hydrostatic Mud	2289	P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 13 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: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1588
P 2						66	1595
P 3						69	1602
P 4						72	1609
P 5						75	1616
P 6						78	1619
P 7						81	1621
P 8						84	1625
P 9						87	1628
P10						90	1632
P11						93	1635
P12						96	1638
P13						99	1638
P14						102	1638
P15						105	1638
P16						108	1638
P17						111	1638
P18						114	1638
P19						117	1638
P20						120	1638

5673

Tkt # 1620
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Molz oil co.
ETTA #1 DST #2