Company Mid-Continent Energy Corp. Lease & Well No. Gerdes #1

Elevation ----- Formation Indian Cave Effective Pay ---- Ft. Ticket No. 6318

Date 7-21-80 Sec. 7 Twp. 30 S Range 11 W County Barber State KS

Test Approved by Buskirk Western Representative Roger A. Mounts

Formation Test No. 1 Interval Tested from 2740 ft. to 2780 ft. Total Depth 2780 ft.

Packer Depth 2735 ft. Size 6 3/4 in. Packer Depth ---- ft. Size ---- in.

Packer Depth 2740 ft. Size 6 3/4 in. Packer Depth ---- ft. Size ---- in.

Depth of Selective Zone Set ----

Top Recorder Depth (Inside) 2752 ft. Recorder Number 3086 Cap. 4500

Bottom Recorder Depth (Outside) 2755 ft. Recorder Number 1566 Cap. 4300

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

Drilling Contractor H-30 Drilling Inc. Rig #11 Drill Collar Length ---- I. D. --- in.

Mud Type Starch Viscosity 33 Weight Pipe Length ---- I. D. ---- in.

Weight 10.1 Water Loss 23.2 cc. Drill Pipe Length 2711 I. D. 3.8 in.

Chlorides 140,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½ OD in.

Jars: Make WTC Serial Number 407 Anchor Length 40 ft. Size 5½ OD in.

Did Well Flow? Yes Reversed Out -- Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½ FH in.

Blow: Gas to surface in nine minutes. See attached sheet for gas measurements.

Recovered 90 ft. of Heavy gas cut mud.

Recovered 60 ft. of Heavy gas cut muddy water.

Recovered 120 ft. of Heavy gas cut salt water.

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:10 ~~A.M.~~ P.M. Time Started Off Bottom 2:55 A.M. ~~P.M.~~ Maximum Temperature 106° F.

Initial Hydrostatic Pressure			(A) 1444	P.S.I.		
Initial Flow Period	Minutes 30	(B) 47	P.S.I. to	(C) 90	P.S.I.	
Initial Closed In Period	Minutes 60	(D) 990	P.S.I.			
Final Flow Period	Minutes 45	(E) 114	P.S.I. to	(F) 140	P.S.I.	
Final Closed In Period	Minutes 96	(G) 984	P.S.I.			
Final Hydrostatic Pressure			(H) 1411	P.S.I.		

GAS FLOW REPORT

Date 7/21/80 Ticket 6318 Company Mid Continent Energy Corporation

Well Name and No. Gerdes #1 Dst No. 1 Interval Tested 2740'-2780'

County Barber State Kansas Sec. 7 Twp. 30S Rg. 11W

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
Gas to surface in nine minutes.			**PRE FLOW**			
11:19PM		8 PSIG	1/4" orifice			27,000 CFPD
	10 min.	12 PSIG	1/4" orifice			34,000 CFPD
	20 min.	15 PSIG	1/4" orifice			39,200 CFPD
	30 min.	30 PSIG	1/4" orifice			61,900 CFPD
			SECOND FLOW			
12:40AM						
	10 min.	38 PSIG	1/4" orifice			73,000 CFPD
	20 min.	52 PSIG	1/4" orifice			92,500 CFPD
	30 min.	52 PSIG	1/4" orifice			92,500 CFPD
	40 min.	54 PSIG	1/4" orifice			92,300 CFPD
	45 min.	54 PSIG	1/4" orifice			92,300 CFPD

GAS BOTTLE

Serial No. WTC 111 Date Bottle Filled 7/21/80 Date to be Invoiced 7/21/80

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 1½% per month, equal to 18% 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 Mid Continent Energy Corporation

Authorized by C. Buskirk

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 7-21-80 Test Ticket No. 6318

Recorder No. 3086 Capacity 4500 Location 2752 Ft.

Clock No. ------- Elevation ---------- Well Temperature 106 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1444	P.S.I.
B	First Initial Flow Pressure	47	P.S.I.
C	First Final Flow Pressure	90	P.S.I.
D	Initial Closed-in Pressure	990	P.S.I.
E	Second Initial Flow Pressure	114	P.S.I.
F	Second Final Flow Pressure	140	P.S.I.
G	Final Closed-in Pressure	984	P.S.I.
H	Final Hydrostatic Mud	1411	P.S.I.

	Time Given	Time Computed
Open Tool	11:10 P. M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	90 Mins.	96 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	47
P 2 5	47
P 3 10	47
P 4 15	57
P 5 20	69
P 6 25	78
P 7 30	90
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	90
3	651
6	842
9	916
12	944
15	958
18	972
21	981
24	984
27	984
30	985
33	985
36	986
39	987
42	987
45	988
48	988
51	989
54	989
57	990
60	990

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	114
5	91
10	107
15	117
20	126
25	128
30	133
35	136
40	138
45	140

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	140
3	660
6	797
9	865
12	907
15	918
18	930
21	939
24	949
27	953
30	958
33	962
36	965
39	968
42	971
45	974
48	975
51	976
54	977
57	977
60	978

Continued on next page

WESTERN TESTING CO., INC.
Pressure Data

Date 7-21-80 Test Ticket No. 6318

Recorder No. 3086 Capacity 4500 Location 2752 Ft.

Clock No. ------- Elevation ---------- Well Temperature 106 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1444 P.S.I.		Open Tool	11:10 P. M	
B	First Initial Flow Pressure	47 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	90 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Mins.
D	Initial Closed-in Pressure	990 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	114 P.S.I.		Final Closed-in Pressure	90 Mins.	96 Mins.
F	Second Final Flow Pressure	140 P.S.I.				
G	Final Closed-in Pressure	984 P.S.I.				
H	Final Hydrostatic Mud	1411 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: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Final Shut-In
Breakdown: 32 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	979
66	980
69	981
72	982
75	983
78	983
81	983
84	984
87	984
90	984
93	984
96	984

3086

RL# 6318
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