Company Pendleton Land & Exploration, Inc. Lease & Well No. Schmidt #1

Elevation 1168 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 12172

Date 7/1/81 Sec. 34 Twp. 34S Range 3W County Sumner State Kansas

Test Approved by Perry A Hand Western Representative Robert Davis

Formation Test No. 1 Interval Tested from 4332 ft. to 4367 ft. Total Depth 4367 ft.

Packer Depth 4332 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4327 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4362 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4367 ft. Recorder Number 2774 Cap. 4500

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

Drilling Contractor Silverado Rig #10 Drill Collar Length 344 I. D. - in.

Mud Type Chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.2 Water Loss 12.0 cc. Drill Pipe Length 3983 I. D. - in.

Chlorides 9000 P.P.M. Test Tool Length 27 ft. Tool Size 5½ in.

Jars: Make WTC Serial Number 405 Anchor Length 35 ft. Size 5½ in.

Did Well Flow? Gas 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 gas to surface 30 minutes into initial flow period. Final flow period gas flow stabilized at one inch on 3/4" orifice. See attached sheet for gas measurements.

Recovered 186 ft. of very slightly gas cut drilling mud.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:30 ~~A.M.~~ ~~P.M.~~ Time Started Off Bottom 8:15 ~~A.M.~~ ~~P.M.~~ Maximum Temperature 134

Initial Hydrostatic Pressure ..... (A) 2122 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 80 P.S.I. to (C) 89 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1621 P.S.I.

Final Flow Period ..... Minutes 60 (E) 76 P.S.I. to (F) 78 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1744 P.S.I.

Final Hydrostatic Pressure ..... (H) 2122 P.S.I.

GAS FLOW REPORT

Date 7/1/81 Ticket 12172 Company Pendleton Land & Exploration, Inc.

Well Name and No. Schmidt #1 Dst No. 1 Interval Tested 4332-4367

County Sumner State Kansas Sec. 34 Twp. 34S Rg. 3W

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
	Tool open @ 4:30 AM to 5:00 AM **PRE FLOW**					
	Tool closed in 5:00 AM to 5:45 AM					
	Gas to surface in 30 minutes **SECOND FLOW**					
	Tool open @ 5:45 AM to 6:45 AM					
	40 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	50 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	60 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	70 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	80 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	90 Min	1" water	3/4" Orifice			14,200 C.F.P.D.
	Tool closed in 6:45 AM to 8:15 AM					

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced 7/1/81

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 Pendleton Land & Exploration, Inc.

Authorized by Perry A Hand

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 7/1/81 Test Ticket No. 12172

Recorder No. 11018 Capacity 4425 Location 4362 Ft.

Clock No. - Elevation 1168 Kelly Bushing Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2122 P.S.I.	Open Tool	4:30A M	
B First Initial Flow Pressure	80 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	89 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1621 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	78 P.S.I.			
G Final Closed-in Pressure	1744 P.S.I.			
H Final Hydrostatic Mud	2122 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	80
P 2 5	80
P 3 10	80
P 4 15	80
P 5 20	82
P 6 25	84
P 7 30	89
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	89
3	322
6	566
9	785
12	949
15	1070
18	1176
21	1262
24	1341
27	1401
30	1454
33	1502
36	1535
39	1566
42	1595
45	1621

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

Point Minutes	Press.
0	76
5	76
10	76
15	76
20	76
25	76
30	76
35	76
40	76
45	76
50	77
55	78
60	78

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	78
3	484
6	739
9	936
12	1068
15	1178
18	1260
21	1335
24	1390
27	1436
30	1478
33	1515
36	1542
39	1568
42	1590
45	1612
48	1630
51	1648
54	1659
57	1670
60	1683

CONT'D NEXT PAGE

WESTERN TESTING CO., INC.
Pressure Data

Date 7/1/81 Test Ticket No. 12172

Recorder No. 11018 Capacity 4425 Location 4362 Ft.

Clock No. - Elevation 1168 Kelly Bushing Well Temperature 134 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2122 P.S.I.	Open Tool	4:30A M	
B First Initial Flow Pressure	80 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	89 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1621 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	76 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	78 P.S.I.			
G Final Closed-in Pressure	1744 P.S.I.			
H Final Hydrostatic Mud	2122 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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

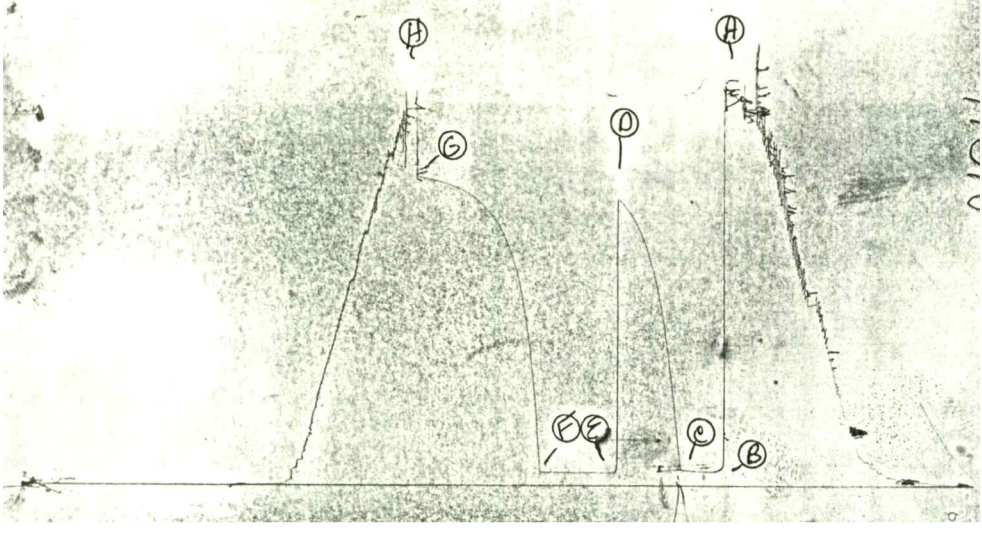
Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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	1692
P 2						66	1698
P 3						69	1705
P 4						72	1714
P 5						75	1720
P 6						78	1727
P 7						81	1733
P 8						84	1738
P 9						87	1742
P10						90	1744
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JKH # 12172

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Schmidt #1

Elevation 1158 Kelly Bushing Formation - Effective Pay - Ft. Ticket No. 14866

Date 7/5/81 Sec. 34 Twp. 34S Range 3W County Sumner State Kansas

Test Approved by Perry A Hand Western Representative Jeff Piotrowski

Formation Test No. 2 Interval Tested from 4758 ft. to 4845 ft. Total Depth 4845 ft.

Packer Depth 4753 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4758 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4823 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 4826 ft. Recorder Number 1565 Cap. 4900

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

Drilling Contractor Silverado Rig #10 Drill Collar Length 260 I. D. 2.2 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length - I. D. - in.

Weight 8.9 Water Loss 14.0 cc. Drill Pipe Length 4465 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 29 ft. Tool Size 5½OD in.

Jars: Make WTC Serial Number 405 Anchor Length DC 60 - 27 ft. Size 5½OD in.

Did Well Flow? No Reversed Out No 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 slowly building to strong initial flow period. Strong throughout final flow period

Recovered 240 ft. of gas in pipe

Recovered 120 ft. of slightly oil cut mud - 2% oil; 20% gas; 78% mud

Recovered 60 ft. of oil cut mud

Recovered 60 ft. of slightly oil cut watery mud

Recovered 120 ft. of water Chlorides 93,000 PPM

Remarks: Slid tool through bridge 20 ft. off bottom.

Time Set Packer(s) 6:40 ~~P.M.~~ A.M. Time Started Off Bottom 10:25 ~~P.M.~~ A.M. Maximum Temperature 123

Initial Hydrostatic Pressure ..... (A) 2298 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 142 P.S.I. to (C) 167 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1759 P.S.I.

Final Flow Period ..... Minutes 60 (E) 180 P.S.I. to (F) 205 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 1769 P.S.I.

Final Hydrostatic Pressure ..... (H) 2298 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 7/5/81 Test Ticket No. 14866

Recorder No. 5673 Capacity 5400 Location 4823 Ft.

Clock No. - Elevation 1158 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2298 P.S.I.	Open Tool	6:40A M	
B First Initial Flow Pressure	142 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	167 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1759 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	180 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	205 P.S.I.			
G Final Closed-in Pressure	1769 P.S.I.			
H Final Hydrostatic Mud	2298 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	142
P 2 5	150
P 3 10	156
P 4 15	167
P 5 20	167
P 6 25	167
P 7 30	167
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	167
3	276
6	568
9	1225
12	1631
15	1699
18	1721
21	1732
24	1737
27	1743
30	1747
33	1750
36	1753
39	1755
42	1757
45	1759

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

Point Minutes	Press.
0	180
5	180
10	180
15	180
20	188
25	189
30	191
35	193
40	195
45	197
50	200
55	203
60	205

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	205
3	732
6	1276
9	1442
12	1675
15	1702
18	1713
21	1724
24	1732
27	1733
30	1737
33	1739
36	1741
39	1743
42	1745
45	1747
48	1749
51	1751
54	1753
57	1755
60	1756

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WESTERN TESTING CO., INC.

Pressure Data

Date 7/5/81 Test Ticket No. 14866

Recorder No. 5673 Capacity 5400 Location 4823 Ft.

Clock No. - Elevation 1158 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2298 P.S.I.	Open Tool	6:40A M	
B First Initial Flow Pressure	142 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	167 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1759 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	180 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	205 P.S.I.			
G Final Closed-in Pressure	1769 P.S.I.			
H Final Hydrostatic Mud	2298 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: 15 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: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
63	1758
66	1760
69	1761
72	1762
75	1763
78	1765
81	1766
84	1767
87	1768
90	1769

WTC - 4

3673
DST #2

IKt #14866

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