

Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 2388
Date 4/14/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Max Knipe

Formation Test No. 3 Interval Tested from 4274' ft. to 4314' ft. Total Depth 4314' ft.

Packer Depth 4269 ft. Size 6 3/4 in. Packer Depth 4274 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) 4306 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 4309 ft. Recorder Number 2605 Cap. 4150

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

Drilling Contractor Brandt Drilling Co. Rig #2

Drill Collar Length 218 I. D. 2 1/4 in.

Mud Type drispac Viscosity 45

Weight Pipe Length 310 I. D. 2.7 in.

Weight 8.9 Water Loss 15 cc.

Drill Pipe Length 3715 I. D. 3.8 in.

Chlorides 13,000 P.P.M.

Test Tool Length 31' ~~in~~ Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410

Anchor Length 40' ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Weak for 30 minutes on pre-flow; reopened tool for second flow. No blow.

Recovered 65 ft. of slightly oil cut mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:35 A.M. ~~P.M.~~ Time Started Off Bottom 11:05 A.M. ~~P.M.~~ Maximum Temperature 109

Initial Hydrostatic Pressure (A) 2031 P.S.I.

Initial Flow Period Minutes 30 (B) 56 P.S.I. to (C) 54 P.S.I.

Initial Closed In Period Minutes 45 (D) 1245 P.S.I.

Final Flow Period Minutes 20 (E) 70 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 45 (G) 1224 P.S.I.

Final Hydrostatic Pressure (H) 2002 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4-14-79 Recorder No. 3354 Capacity 4200 Test Ticket No. 2388
 Location 4306 Ft. 109 °F
 Clock No. - Elevation 2747 Kelly Bushing Well Temperature 109 °F

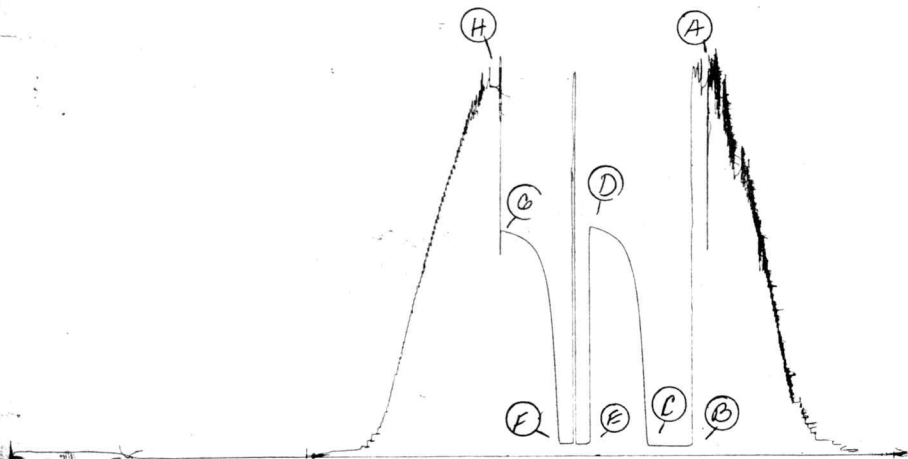
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2031	P.S.I.	8:35A.	
B First Initial Flow Pressure	56	P.S.I.	30	30
C First Final Flow Pressure	54	P.S.I.	45	45
D Initial Closed-in Pressure	1245	P.S.I.	20	20
E Second Initial Flow Pressure	70	P.S.I.	45	45
F Second Final Flow Pressure	70	P.S.I.		
G Final Closed-in Pressure	1224	P.S.I.		
H Final Hydrostatic Mud	2002	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>4</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>54</u>	<u>0</u>	<u>70</u>	<u>0</u>	<u>70</u>
P 2 <u>5</u>	<u>53</u>	<u>3</u>	<u>331</u>	<u>5</u>	<u>65</u>	<u>3</u>	<u>319</u>
P 3 <u>10</u>	<u>53</u>	<u>6</u>	<u>608</u>	<u>10</u>	<u>65</u>	<u>6</u>	<u>631</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>819</u>	<u>15</u>	<u>70</u>	<u>9</u>	<u>823</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>909</u>	<u>20</u>	<u>70</u>	<u>12</u>	<u>951</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>1049</u>			<u>15</u>	<u>1036</u>
P 7 <u>30</u>	<u>54</u>	<u>18</u>	<u>1108</u>			<u>18</u>	<u>1087</u>
P 8		<u>21</u>	<u>1143</u>			<u>21</u>	<u>1129</u>
P 9		<u>24</u>	<u>1171</u>			<u>24</u>	<u>1154</u>
P10		<u>27</u>	<u>1190</u>			<u>27</u>	<u>1173</u>
P11		<u>30</u>	<u>1203</u>			<u>30</u>	<u>1188</u>
P12		<u>33</u>	<u>1217</u>			<u>33</u>	<u>1195</u>
P13		<u>36</u>	<u>1226</u>			<u>36</u>	<u>1202</u>
P14		<u>39</u>	<u>1234</u>			<u>39</u>	<u>1209</u>
P15		<u>42</u>	<u>1238</u>			<u>42</u>	<u>1216</u>
P16		<u>45</u>	<u>1245</u>			<u>45</u>	<u>1224</u>
P17							
P18							
P19							
P20							

TKT # 2388
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354



Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 2389
Date 4/15/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Max Knipe
Formation Test No. 4 Interval Tested from 4310 ft. to 4350 ft. Total Depth 4350 ft.
Packer Depth 4305 ft. Size 6 3/4 in. Packer Depth 4310 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) 4342 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4345 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Brandt Drilling Rig #2 Drill Collar Length 218 I. D. 2 1/4 in.
Mud Type drispac Viscosity 45 Weight Pipe Length 310 I. D. 2.7 in.
Weight 8.9 Water Loss 15 cc. Drill Pipe Length 3751 I. D. 3.8 in.
Chlorides 13,000 P.P.M. Test Tool Length 31' =in= Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 410 Anchor Length 40' ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Weak increased to strong.

Recovered 350 ft. of gas

Recovered 130 ft. of clean oil 26 gravity corrected

Recovered 60 ft. of muddy oil

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 2:47 A.M. Time Started Off Bottom 6:05 P.M. Maximum Temperature 111
Initial Hydrostatic Pressure (A) 2042 P.S.I.
Initial Flow Period Minutes 30 (B) 49 P.S.I. to (C) 53 P.S.I.
Initial Closed In Period Minutes 45 (D) 1175 P.S.I.
Final Flow Period Minutes 60 (E) 78 P.S.I. to (F) 84 P.S.I.
Final Closed In Period Minutes 60 (G) 1245 P.S.I.
Final Hydrostatic Pressure (H) 2018 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/15/79 Recorder No. 3354 Capacity 2747 Test Ticket No. 2389 Location 4342 Ft. 111
 Clock No. -- Elevation -- Well Temperature -- °F

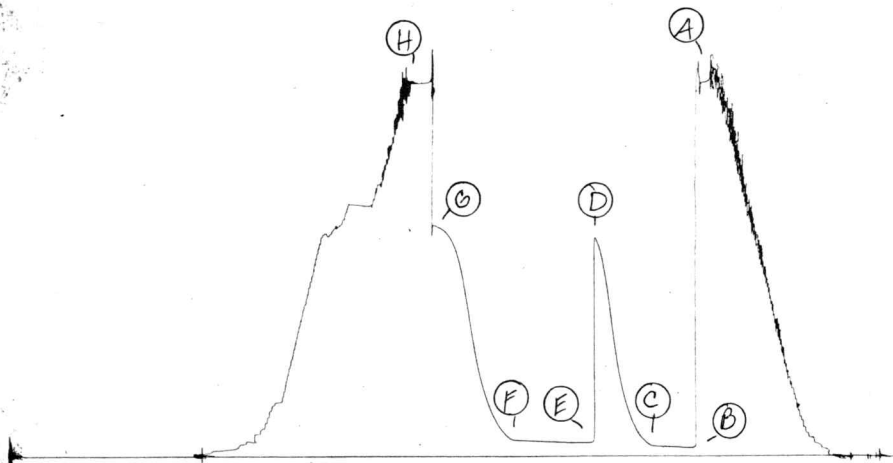
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2042	P.S.I.	2:47A	M
B First Initial Flow Pressure	49	P.S.I.	30	Mins.
C First Final Flow Pressure	53	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1175	P.S.I.	60	Mins.
E Second Initial Flow Pressure	78	P.S.I.	60	Mins.
F Second Final Flow Pressure	84	P.S.I.		
G Final Closed-in Pressure	1245	P.S.I.		
H Final Hydrostatic Mud	2018	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	0	0	49	0	78	0	84
P 2	5	3	42	5	71	3	95
P 3	10	6	44	10	71	6	116
P 4	15	9	46	15	71	9	139
P 5	20	12	49	20	72	12	171
P 6	25	15	51	25	74	15	213
P 7	30	18	53	30	76	18	268
P 8		21		35	78	21	335
P 9		24		40	79	24	401
P10		27		45	80	27	500
P11		30		50	81	30	618
P12		33		55	83	33	721
P13		36		60	84	36	824
P14		39				39	920
P15		42				42	1025
P16		45				45	1128
P17						48	1151
P18						51	1174
P19						54	1197
P20						57	1222
						60	1245

3552

Tkt # 2389
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Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
 Elevation 2747 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 2390
 Date 4-15-79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
 Test Approved by Thomas R. Satter Western Representative Guy M. Knipe
 Formation Test No. 5 Interval Tested from 4347 ft. to 4365 ft. Total Depth 4365 ft.
 Packer Depth 4342 ft. Size 6 3/4 in. Packer Depth 4347 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) 4357 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 4360 ft. Recorder Number 2605 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Brandt Drilling (#2) Drill Collar Length 218 I. D. 2 1/4 in.
 Mud Type Drispac Viscosity 70 Weight Pipe Length 310 I. D. 2.7 in.
 Weight 8.7 Water Loss 18 cc. Drill Pipe Length 3788 I. D. 3.8 in.
 Chlorides 15,000 P.P.M. Test Tool Length 31' XXX in. Tool Size 5 1/2 OD in.
 Jars: Make W.T.C. Serial Number 410 Anchor Length 18 ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Weak blow throughout test.

Recovered 250 ft. of salt water (61,000 PPM Chlorides)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:30 ~~AME~~ P.M. Time Started Off Bottom 11:15 ~~AME~~ P.M. Maximum Temperature 114
 Initial Hydrostatic Pressure 2091 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 38 P.S.I. to (C) 76 P.S.I.
 Initial Closed In Period 45 Minutes (D) 1184 P.S.I.
 Final Flow Period 90 Minutes (E) 91 P.S.I. to (F) 162 P.S.I.
 Final Closed In Period 60 Minutes (G) 1169 P.S.I.
 Final Hydrostatic Pressure 2021 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4-15-79 Recorder No. 3354 Capacity 4200 Test Ticket No. 2390
 Clock No. - Elevation 2747 Kelly Bushing Location 4357 Ft. 114
 Well Temperature 114 °F

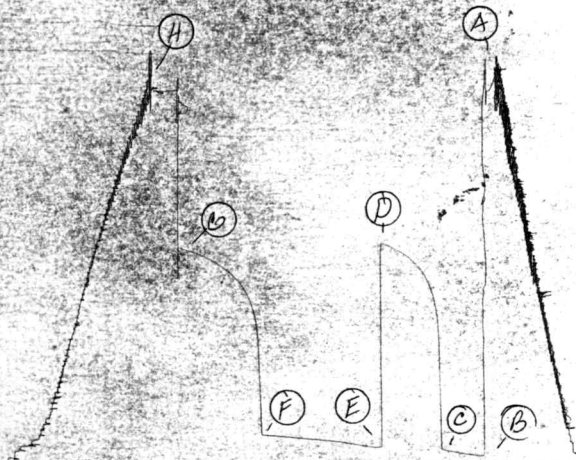
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2091	P.S.I.	7:30P.	M
B First Initial Flow Pressure	38	P.S.I.	30	Mins.
C First Final Flow Pressure	76	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1184	P.S.I.	90	Mins.
E Second Initial Flow Pressure	91	P.S.I.	60	Mins.
F Second Final Flow Pressure	162	P.S.I.		
G Final Closed-in Pressure	1169	P.S.I.		
H Final Hydrostatic Mud	2021	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	38	0	76	0	91	0	162
P 2 5	38	3	654	5	91	3	525
P 3 10	46	6	835	10	95	6	743
P 4 15	53	9	914	15	105	9	829
P 5 20	61	12	964	20	110	12	886
P 6 25	68	15	1008	25	116	15	926
P 7 30	76	18	1038	30	122	18	964
P 8		21	1068	35	125	21	994
P 9		24	1089	40	128	24	1015
P10		27	1108	45	131	27	1036
P11		30	1124	50	135	30	1053
P12		33	1139	55	139	33	1067
P13		36	1152	60	143	36	1081
P14		39	1160	65	147	39	1096
P15		42	1171	70	151	42	1108
P16		45	1184	75	154	45	1120
P17				80	157	48	1131
P18				85	160	51	1140
P19				90	162	54	1152
P20						57	1160
						60	1169

4556

TKT #2390
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Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
 Elevation 2747 Kelly Bushing Lansing Effective Pay -- Ft. Ticket No. 2391
 Date 4/16/79 Sec. 16 Twp. 27S Range 29W County Gary State Kansas
 Test Approved by Thomas R. Satter Western Representative Max Knipe
 Formation Test No. 6 Interval Tested from 4370' ft. to 4404' ft. Total Depth 4404' ft.
 Packer Depth 4365 ft. Size 6 3/4 in. Packer Depth 4370 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) 4396 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 4399 ft. Recorder Number 2605 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Brandt Drilling Rig #2 Drill Collar Length 218 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 44 Weight Pipe Length 310 I. D. 2.7 in.
 Weight 8.9 Water Loss 15 cc. Drill Pipe Length 3811 I. D. 3.8 in.
 Chlorides 13,000 P.P.M. Test Tool Length 31' ~~= in.~~ Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 410 Anchor Length 34' ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Strong , decreased to 3/4" on final flow period.

Recovered 440 ft. of gas
 Recovered 156 ft. of slightly mud cut oil
 Recovered 1323 ft. of clean gassy oil
 Recovered 126 ft. of slightly mud cut oil
 Recovered 1386 ft. of oil cut water 78,000 ppm chlorides

Remarks: _____

Time Set Packer(s) 2:41 ~~AM~~ P.M. Time Started Off Bottom 6:00 ~~AM~~ P.M. Maximum Temperature 117
 Initial Hydrostatic Pressure (A) 2089 P.S.I.
 Initial Flow Period Minutes 30 (B) 1000 P.S.I. to (C) 1309 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1317 P.S.I.
 Final Flow Period Minutes 60 (E) 1317 P.S.I. to (F) 1317 P.S.I.
 Final Closed In Period Minutes 60 (G) 1317 P.S.I.
 Final Hydrostatic Pressure (H) 2064 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 4/16/79 Recorder No. 3354 Capacity 4200 Test Ticket No. 2391
 Location 4396 Ft.
 Clock No. -- Elevation 2747 Kelly Bushing Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2089 P.S.I.	2:41 P	M
B First Initial Flow Pressure	1000 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	1309 P.S.I.	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1317 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	1317 P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	1317 P.S.I.		
G Final Closed-in Pressure	1317 P.S.I.		
H Final Hydrostatic Mud	2064 P.S.I.		

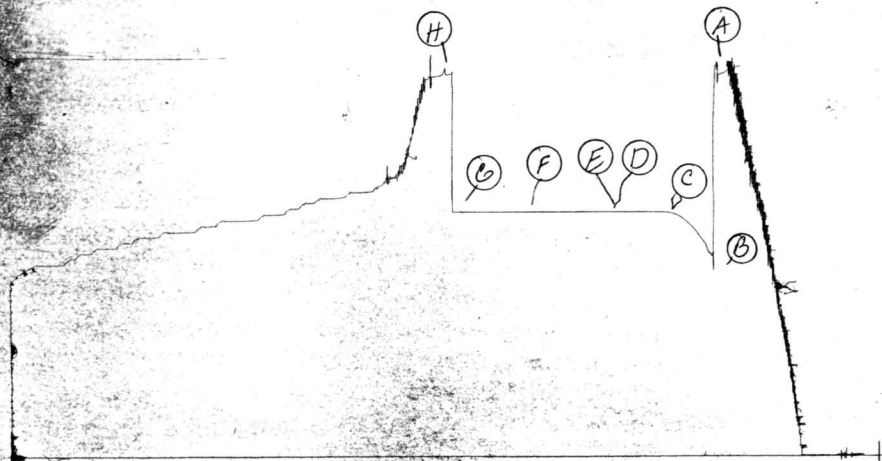
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>1000</u>	<u>0</u>	<u>1309</u>	<u>0</u>	<u>1317</u>	<u>0</u>	<u>1317</u>
P 2 <u>5</u>	<u>1125</u>	<u>3</u>	<u>1314</u>	<u>5</u>	<u>1317</u>	<u>3</u>	<u>1317</u>
P 3 <u>10</u>	<u>1177</u>	<u>6</u>	<u>1315</u>	<u>10</u>	<u>1317</u>	<u>6</u>	<u>1317</u>
P 4 <u>15</u>	<u>1228</u>	<u>9</u>	<u>1317</u>	<u>15</u>	<u>1317</u>	<u>9</u>	<u>1317</u>
P 5 <u>20</u>	<u>1262</u>	<u>12</u>	<u>1317</u>	<u>20</u>	<u>1317</u>	<u>12</u>	<u>1317</u>
P 6 <u>25</u>	<u>1293</u>	<u>15</u>	<u>1317</u>	<u>25</u>	<u>1317</u>	<u>15</u>	<u>1317</u>
P 7 <u>30</u>	<u>1309</u>	<u>18</u>	<u>1317</u>	<u>30</u>	<u>1317</u>	<u>18</u>	<u>1317</u>
P 8		<u>21</u>	<u>1317</u>	<u>35</u>	<u>1317</u>	<u>21</u>	<u>1317</u>
P 9		<u>24</u>	<u>1317</u>	<u>40</u>	<u>1317</u>	<u>24</u>	<u>1317</u>
P10		<u>27</u>	<u>1317</u>	<u>45</u>	<u>1317</u>	<u>27</u>	<u>1317</u>
P11		<u>30</u>	<u>1317</u>	<u>50</u>	<u>1317</u>	<u>30</u>	<u>1317</u>
P12		<u>33</u>	<u>1317</u>	<u>55</u>	<u>1317</u>	<u>33</u>	<u>1317</u>
P13		<u>36</u>	<u>1317</u>	<u>60</u>	<u>1317</u>	<u>36</u>	<u>1317</u>
P14		<u>39</u>	<u>1317</u>			<u>39</u>	<u>1317</u>
P15		<u>42</u>	<u>1317</u>			<u>42</u>	<u>1317</u>
P16		<u>45</u>	<u>1317</u>			<u>45</u>	<u>1317</u>
P17						<u>48</u>	<u>1317</u>
P18						<u>51</u>	<u>1317</u>
P19						<u>54</u>	<u>1317</u>
P20						<u>57</u>	<u>1317</u>
						<u>60</u>	<u>1317</u>

3354

Trt # 2391

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 Kelly Bushing Lansing Formation Lansing Effective Pay -- Ft. Ticket No. 2392
Date 4/17/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Vernon Wondra

Formation Test No. 7 Interval Tested from 4390 ft. to 4422' ft. Total Depth 4422' ft.

Packer Depth 4385 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4390 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4413 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 4416 ft. Recorder Number 2605 Cap. 4150

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

Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 251 I. D. 2 1/4 in.

Mud Type drispac Viscosity 49 Weight Pipe Length 310 I. D. 2.7 in.

Weight 8 7 Water Loss 14.8 cc. Drill Pipe Length 3798 I. D. 3.8 in.

Chlorides 13,500 P.P.M. Test Tool Length 31' in. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 32' ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Strong blow throughout first flow period. Very weak blow; died in 20 minutes on second flow period.

Recovered 260 ft. of slightly mud cut gassy oil

Recovered 1485 ft. of gassy oil (gravity - 17 @ 60°)

Recovered 1320 ft. of oily water (chlorides 78,000 ppm)

Recovered - ft. of Resistivity .140 TIGHT HOLE PLEASE

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 6:00 ~~AM~~ P.M. Time Started Off Bottom 9:15 ~~AM~~ P.M. Maximum Temperature 117

Initial Hydrostatic Pressure 2081 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 1002 P.S.I. to (C) 1323 P.S.I.

Initial Closed In Period 45 Minutes (D) 1327 P.S.I.

Final Flow Period 60 Minutes (E) 1327 P.S.I. to (F) 1331 P.S.I.

Final Closed In Period 60 Minutes (G) 1331 P.S.I.

Final Hydrostatic Pressure 2052 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4/17/79 Test Ticket No. 2392
 Recorder No. 3354 Capacity 4200 Location 4413 Ft.
 Clock No. -- Elevation 2747 Kelly Bushing Well Temperature 117 °F

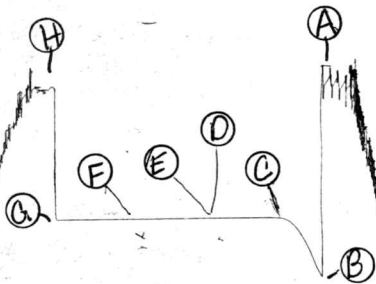
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2081	P.S.I.	6:00P	M
B First Initial Flow Pressure	1002	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	1323	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1327	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	1327	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	1331	P.S.I.		
G Final Closed-in Pressure	1331	P.S.I.		
H Final Hydrostatic Mud	2052	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>1002</u>	<u>0</u>	<u>1323</u>	<u>0</u>	<u>1327</u>	<u>0</u>	<u>1331</u>
P 2 <u>5</u>	<u>1068</u>	<u>3</u>	<u>1324</u>	<u>5</u>	<u>1327</u>	<u>3</u>	<u>1331</u>
P 3 <u>10</u>	<u>1152</u>	<u>6</u>	<u>1325</u>	<u>10</u>	<u>1327</u>	<u>6</u>	<u>1331</u>
P 4 <u>15</u>	<u>1224</u>	<u>9</u>	<u>1326</u>	<u>15</u>	<u>1327</u>	<u>9</u>	<u>1331</u>
P 5 <u>20</u>	<u>1268</u>	<u>12</u>	<u>1327</u>	<u>20</u>	<u>1327</u>	<u>12</u>	<u>1331</u>
P 6 <u>25</u>	<u>1306</u>	<u>15</u>	<u>1327</u>	<u>25</u>	<u>1327</u>	<u>15</u>	<u>1331</u>
P 7 <u>30</u>	<u>1323</u>	<u>18</u>	<u>1327</u>	<u>30</u>	<u>1328</u>	<u>18</u>	<u>1331</u>
P 8		<u>21</u>	<u>1327</u>	<u>35</u>	<u>1329</u>	<u>21</u>	<u>1331</u>
P 9		<u>24</u>	<u>1327</u>	<u>40</u>	<u>1329</u>	<u>24</u>	<u>1331</u>
P10		<u>27</u>	<u>1327</u>	<u>45</u>	<u>1331</u>	<u>27</u>	<u>1331</u>
P11		<u>30</u>	<u>1327</u>	<u>50</u>	<u>1331</u>	<u>30</u>	<u>1331</u>
P12		<u>33</u>	<u>1327</u>	<u>55</u>	<u>1331</u>	<u>33</u>	<u>1331</u>
P13		<u>36</u>	<u>1327</u>	<u>60</u>	<u>1331</u>	<u>36</u>	<u>1331</u>
P14		<u>39</u>	<u>1327</u>			<u>39</u>	<u>1331</u>
P15		<u>42</u>	<u>1327</u>			<u>42</u>	<u>1331</u>
P16		<u>45</u>	<u>1327</u>			<u>45</u>	<u>1331</u>
P17						<u>48</u>	<u>1331</u>
P18						<u>51</u>	<u>1331</u>
P19						<u>54</u>	<u>1331</u>
P20						<u>57</u>	<u>1331</u>
						<u>60</u>	<u>1331</u>

hse

TK#2392
I



Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
 Elevation 2747 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 2393
 Date 4-18-79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
 Test Approved by Thomas R. Satter Western Representative Vernon Wondra
 Formation Test No. 8 Interval Tested from 4420 ft. to 4451 ft. Total Depth 4451 ft.
 Packer Depth 4415 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4420 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4443 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 4446 ft. Recorder Number 2605 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Brandt Drilling Co. (#2) Drill Collar Length 251 I. D. 2 1/4 in.
 Mud Type Drispac Viscosity 48 Weight Pipe Length 310 I. D. 2.7 in.
 Weight 8.8 Water Loss 15.4 cc. Drill Pipe Length 3728 I. D. 3.8 in.
 Chlorides 20,000 P.P.M. Test Tool Length 31' in. Tool Size 5 1/2 OD in.
 Jars: Make W.T.C. Serial Number 410 Anchor Length 31 ft. Size 5 1/2 OD 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 7 7/8 in.

Blow: Fair 4" blow throughout initial flow period. Weak 1" blow throughout final flow period.

Recovered 10 ft. of gassy oil
 Recovered 115 ft. of oil cut mud
 Recovered 125 ft. of slightly oil cut muddy water
 Recovered 190 ft. of slightly oil cut water (Chlorides 84,000 PPM, Resisitivity .080)
 Recovered - ft. of -
 Remarks: -

Time Set Packer(s) 5:30 ~~A.M.~~ P.M. Time Started Off Bottom 8:45 ~~A.M.~~ P.M. Maximum Temperature 113
 Initial Hydrostatic Pressure (A) 2101 P.S.I.
 Initial Flow Period Minutes 30 (B) 59 P.S.I. to (C) 146 P.S.I.
 Initial Closed In Period Minutes 45 (D) 1268 P.S.I.
 Final Flow Period Minutes 60 (E) 177 P.S.I. to (F) 266 P.S.I.
 Final Closed In Period Minutes 60 (G) 1234 P.S.I.
 Final Hydrostatic Pressure (H) 2064 P.S.I.

WESTERN TESTING CO., INC.

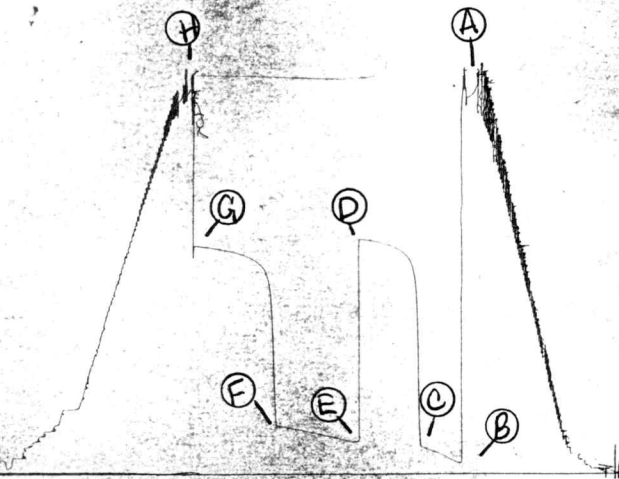
Pressure Data

Date 4-18-79 Recorder No. 3354 Capacity 4200 Test Ticket No. 2393
 Location 4443 Ft. Clock No. - Elevation 2747 Kelly Bushing Well Temperature 113 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 2101 P.S.I. Open Tool 5:30P. M
 B First Initial Flow Pressure 59 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 146 P.S.I. Initial Closed-in Pressure 45 Mins. 45 Mins.
 D Initial Closed-in Pressure 1268 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 177 P.S.I. Final Closed-in Pressure 60 Mins. 60 Mins.
 F Second Final Flow Pressure 266 P.S.I.
 G Final Closed-in Pressure 1234 P.S.I.
 H Final Hydrostatic Mud 2064 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.		
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a		
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	59	0	146	0	177	0	266
P 2	5	70	3	470	5	175	3	517
P 3	10	89	6	808	10	186	6	812
P 4	15	110	9	1046	15	196	9	1034
P 5	20	127	12	1143	20	206	12	1099
P 6	25	139	15	1173	25	214	15	1129
P 7	30	146	18	1187	30	222	18	1141
P 8			21	1201	35	229	21	1153
P 9			24	1216	40	236	24	1165
P10			27	1229	45	243	27	1178
P11			30	1241	50	251	30	1190
P12			33	1246	55	259	33	1195
P13			36	1251	60	266	36	1201
P14			39	1256			39	1206
P15			42	1263			42	1211
P16			45	1268			45	1215
P17							48	1219
P18							51	1223
P19							54	1227
P20							57	1231
							60	1234

TR+ #2393
I.



3351

Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 KellyBushing Formation Lansing Effective Pay -- Ft. Ticket No. 2394
Date 4/19/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Vernon Wondra
Formation Test No. 9 Interval Tested from 4452' ft. to 4460' ft. Total Depth 4460' ft.
Packer Depth 4447 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4452 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set --
Top Recorder Depth (Inside) 4422 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4455 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 251 I. D. 2 1/4 in.
Mud Type drispac Viscosity 47 Weight Pipe Length 310 I. D. 2.7 in.
Weight 8.8 Water Loss 15.6 cc. Drill Pipe Length 3855 I. D. 3.8 in.
Chlorides 21,000 P.P.M. Test Tool Length 36' in. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 8' ft. Size 5 1/2 OD 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 4 1/2 FH in.

Very weak blow; died in 25 minutes on first flow period. No blow on second flow period.
Blow: _____

Recovered 1 ft. of clean oil
Recovered 85 ft. of oil cut muddy water (chlorides 23,000 ppm)
Recovered _____ ft. of _____ Resistivity .330 TIGHT HOLE
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks: _____

Time Set Packer(s) 7:00 A.M. Time Started Off Bottom 10:15 A.M. Maximum Temperature 115
Initial Hydrostatic Pressure _____ (A) 2085 P.S.I.
Initial Flow Period _____ Minutes 30 (B) 15 P.S.I. to (C) 25 P.S.I.
Initial Closed In Period _____ Minutes 45 (D) 1249 P.S.I.
Final Flow Period _____ Minutes 60 (E) 49 P.S.I. to (F) 65 P.S.I.
Final Closed In Period _____ Minutes 60 (G) 1228 P.S.I.
Final Hydrostatic Pressure _____ (H) 2034 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

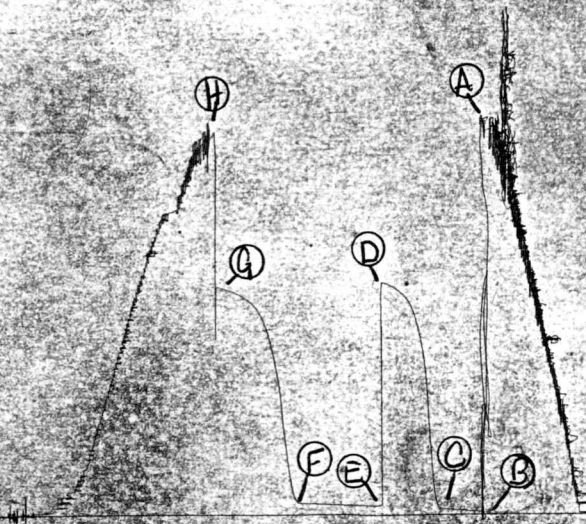
Date 4/19/79 Test Ticket No. 2394
 Recorder No. 3354 Capacity 4200 Location 4422 Ft.
 Clock No. -- Elevation 2747 Kelly Bushing Well Temperature 115 °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	2085 P.S.I.		7:00P	M
B First Initial Flow Pressure	15 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	25 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1249 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	49 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	65 P.S.I.			
G Final Closed-in Pressure	1228 P.S.I.			
H Final Hydrostatic Mud	2034 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>15</u>	<u>0</u>	<u>25</u>	<u>0</u>	<u>49</u>	<u>0</u>	<u>65</u>
P 2 <u>5</u>	<u>19</u>	<u>3</u>	<u>46</u>	<u>5</u>	<u>44</u>	<u>3</u>	<u>97</u>
P 3 <u>10</u>	<u>21</u>	<u>6</u>	<u>209</u>	<u>10</u>	<u>45</u>	<u>6</u>	<u>175</u>
P 4 <u>15</u>	<u>23</u>	<u>9</u>	<u>401</u>	<u>15</u>	<u>46</u>	<u>9</u>	<u>308</u>
P 5 <u>20</u>	<u>25</u>	<u>12</u>	<u>576</u>	<u>20</u>	<u>49</u>	<u>12</u>	<u>445</u>
P 6 <u>25</u>	<u>25</u>	<u>15</u>	<u>800</u>	<u>25</u>	<u>52</u>	<u>15</u>	<u>631</u>
P 7 <u>30</u>	<u>25</u>	<u>18</u>	<u>937</u>	<u>30</u>	<u>54</u>	<u>18</u>	<u>759</u>
P 8		<u>21</u>	<u>1032</u>	<u>35</u>	<u>55</u>	<u>21</u>	<u>865</u>
P 9		<u>24</u>	<u>1101</u>	<u>40</u>	<u>56</u>	<u>24</u>	<u>962</u>
P10		<u>27</u>	<u>1143</u>	<u>45</u>	<u>57</u>	<u>27</u>	<u>1030</u>
P11		<u>30</u>	<u>1175</u>	<u>50</u>	<u>60</u>	<u>30</u>	<u>1076</u>
P12		<u>33</u>	<u>1190</u>	<u>55</u>	<u>63</u>	<u>33</u>	<u>1096</u>
P13		<u>36</u>	<u>1204</u>	<u>60</u>	<u>65</u>	<u>36</u>	<u>1117</u>
P14		<u>39</u>	<u>1221</u>			<u>39</u>	<u>1135</u>
P15		<u>42</u>	<u>1235</u>			<u>42</u>	<u>1163</u>
P16		<u>45</u>	<u>1249</u>			<u>45</u>	<u>1186</u>
P17						<u>48</u>	<u>1195</u>
P18						<u>51</u>	<u>1204</u>
P19						<u>54</u>	<u>1211</u>
P20						<u>57</u>	<u>1219</u>
						<u>60</u>	<u>1228</u>

TK#2394
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Pendleton Land & Exploration, Inc.

Schauf #1

Company 2747 Kelly Bushing Marmaton Lease & Well No. -- Ticket No. 2395
 Elevation Formation Effective Pay -- Ft. 2395
 Date 4/21/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
 Test Approved by Thomas R. Satter Western Representative Vernon Wondra

Formation Test No. 10 Interval Tested from 4545 ft. to 4578 ft. Total Depth 4578 ft.

Packer Depth 4540 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4545 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4568 ft. Recorder Number 3354 Cap. 4200

Bottom Recorder Depth (Outside) 4571 ft. Recorder Number 2605 Cap. 4150

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

Drilling Contractor Brandy Drilling Co. Rig #2 Drill Collar Length 251 I. D. 2 1/4 in.

Mud Type drispac Viscosity 49 Weight Pipe Length 310 I. D. 2.7 in.

Weight 8.9+ Water Loss 10.0 cc. Drill Pipe Length -- I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 31' in. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 410 Anchor Length 33' ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Very weak blow; increased to fair 4" blow by end of both flow periods.

Recovered 280 ft. of muddy water

Recovered 250 ft. of water (chlorides 93,000 ppm)

Recovered ft. of ft.

Recovered ft. of ft.

Recovered ft. of ft.

Remarks:

Time Set Packer(s) 12:15 A.M. Time Started Off Bottom 3:30 A.M. Maximum Temperature 116

Initial Hydrostatic Pressure 2169 P.S.I.

Initial Flow Period 30 Minutes (B) 63 P.S.I. to (C) 158 P.S.I.

Initial Closed In Period 45 Minutes (D) 1331 P.S.I.

Final Flow Period 60 Minutes (E) 188 P.S.I. to (F) 293 P.S.I.

Final Closed In Period 60 Minutes (G) 1295 P.S.I.

Final Hydrostatic Pressure 2097 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

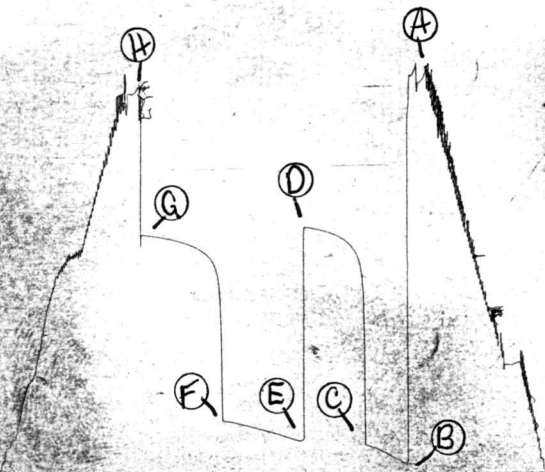
Date 4/21/79 Recorder No. 3354 Capacity 4200 Test Ticket No. 2395
 Clock No. -- Elevation 2747 Kelly Bushing Location 116 Ft. 116
 Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2169	P.S.I.	12:15A	M
B First Initial Flow Pressure	63	P.S.I.	30	Mins.
C First Final Flow Pressure	158	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1331	P.S.I.	60	Mins.
E Second Initial Flow Pressure	188	P.S.I.	60	Mins.
F Second Final Flow Pressure	293	P.S.I.		
G Final Closed-in Pressure	1295	P.S.I.		
H Final Hydrostatic Mud	2097	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>63</u>	<u>0</u>	<u>158</u>	<u>0</u>	<u>188</u>	<u>0</u>	<u>293</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u>	<u>633</u>	<u>5</u>	<u>186</u>	<u>3</u>	<u>764</u>
P 3 <u>10</u>	<u>93</u>	<u>6</u>	<u>1072</u>	<u>10</u>	<u>198</u>	<u>6</u>	<u>1076</u>
P 4 <u>15</u>	<u>112</u>	<u>9</u>	<u>1165</u>	<u>15</u>	<u>213</u>	<u>9</u>	<u>1133</u>
P 5 <u>20</u>	<u>133</u>	<u>12</u>	<u>1207</u>	<u>20</u>	<u>224</u>	<u>12</u>	<u>1167</u>
P 6 <u>25</u>	<u>146</u>	<u>15</u>	<u>1234</u>	<u>25</u>	<u>234</u>	<u>15</u>	<u>1190</u>
P 7 <u>30</u>	<u>158</u>	<u>18</u>	<u>1257</u>	<u>30</u>	<u>245</u>	<u>18</u>	<u>1205</u>
P 8		<u>21</u>	<u>1272</u>	<u>35</u>	<u>256</u>	<u>21</u>	<u>1219</u>
P 9		<u>24</u>	<u>1283</u>	<u>40</u>	<u>265</u>	<u>24</u>	<u>1228</u>
P10		<u>27</u>	<u>1295</u>	<u>45</u>	<u>274</u>	<u>27</u>	<u>1238</u>
P11		<u>30</u>	<u>1302</u>	<u>50</u>	<u>281</u>	<u>30</u>	<u>1247</u>
P12		<u>33</u>	<u>1308</u>	<u>55</u>	<u>287</u>	<u>33</u>	<u>1253</u>
P13		<u>36</u>	<u>1314</u>	<u>60</u>	<u>293</u>	<u>36</u>	<u>1259</u>
P14		<u>39</u>	<u>1321</u>			<u>39</u>	<u>1265</u>
P15		<u>42</u>	<u>1325</u>			<u>42</u>	<u>1272</u>
P16		<u>45</u>	<u>1331</u>			<u>45</u>	<u>1278</u>
P17						<u>48</u>	<u>1282</u>
P18						<u>51</u>	<u>1286</u>
P19						<u>54</u>	<u>1290</u>
P20						<u>57</u>	<u>1292</u>
						<u>60</u>	<u>1295</u>

TK#2395
I.



545

Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 Kelly Bush. Formation - Effective Pay - Ft. Ticket No. 2396
Date 4-21-79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Vernon Wondra
Formation Test No. 11 Interval Tested from 4576 ft. to 4622 ft. Total Depth 4622 ft.
Packer Depth 4571 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4576 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4612 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4615 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Brandt Drlg. (#2) Drill Collar Length 251 I. D. 2 1/4 in.
Mud Type Drispac Viscosity 44 Weight Pipe Length 310 I. D. 2.7 in.
Weight 8.8 Water Loss 11.4 cc. Drill Pipe Length 3985 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 31' ~~XXX~~ Tool Size 5 1/2 OD in.
Jars: Make W.T.C. Serial Number 410 Anchor Length 45 ft. Size 5 1/2 OD 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 4 1/2 FH in.

Blow: Strong blow throughout test.

Recovered 75 ft. of clean Oil (Gravity - 26 at 60 degrees)

Recovered 125 ft. of oil cut mud

Recovered 505 ft. of oil cut water (Chlorides- 93,000 PPM)

Recovered - ft. of (Resisitivity .07)

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 6:30 ~~A.M.~~ P.M. Time Started Off Bottom 9:45 ~~A.M.~~ P.M. Maximum Temperature 116
Initial Hydrostatic Pressure 2197 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 99 P.S.I. to (C) 223 P.S.I.
Initial Closed In Period 45 Minutes (D) 1276 P.S.I.
Final Flow Period 60 Minutes (E) 259 P.S.I. to (F) 359 P.S.I.
Final Closed In Period 60 Minutes (G) 1190 P.S.I.
Final Hydrostatic Pressure 2190 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4-21-79 Test Ticket No. 2396
 Recorder No. 3354 Capacity 4200 Location 4612 Ft.
 Clock No. - Elevation 2747 Kelly Bushing Well Temperature 116 °F

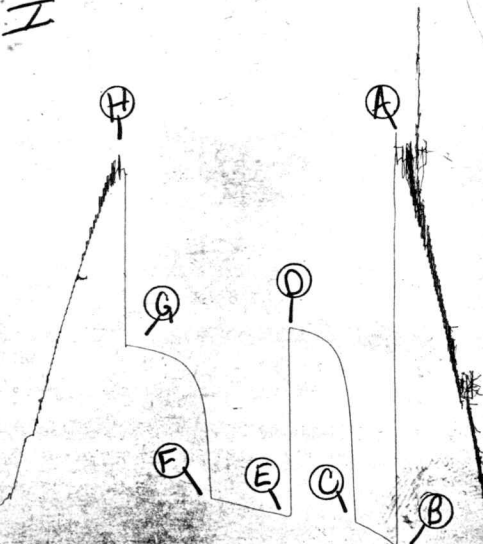
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2197	P.S.I.	6:30P.	M
B First Initial Flow Pressure	99	P.S.I.	30	Mins.
C First Final Flow Pressure	223	P.S.I.	45	Mins.
D Initial Closed-in Pressure	1276	P.S.I.	60	Mins.
E Second Initial Flow Pressure	259	P.S.I.	60	Mins.
F Second Final Flow Pressure	359	P.S.I.		
G Final Closed-in Pressure	1190	P.S.I.		
H Final Hydrostatic Mud	2190	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>99</u>	<u>0</u>	<u>223</u>	<u>0</u>	<u>259</u>	<u>0</u>	<u>359</u>
P 2 <u>5</u>	<u>120</u>	<u>3</u>	<u>679</u>	<u>5</u>	<u>264</u>	<u>3</u>	<u>669</u>
P 3 <u>10</u>	<u>141</u>	<u>6</u>	<u>926</u>	<u>10</u>	<u>274</u>	<u>6</u>	<u>873</u>
P 4 <u>15</u>	<u>162</u>	<u>9</u>	<u>1046</u>	<u>15</u>	<u>281</u>	<u>9</u>	<u>949</u>
P 5 <u>20</u>	<u>184</u>	<u>12</u>	<u>1110</u>	<u>20</u>	<u>289</u>	<u>12</u>	<u>1002</u>
P 6 <u>25</u>	<u>200</u>	<u>15</u>	<u>1154</u>	<u>25</u>	<u>300</u>	<u>15</u>	<u>1038</u>
P 7 <u>30</u>	<u>223</u>	<u>18</u>	<u>1184</u>	<u>30</u>	<u>308</u>	<u>18</u>	<u>1045</u>
P 8 _____		<u>21</u>	<u>1205</u>	<u>35</u>	<u>319</u>	<u>21</u>	<u>1074</u>
P 9 _____		<u>24</u>	<u>1217</u>	<u>40</u>	<u>327</u>	<u>24</u>	<u>1095</u>
P10 _____		<u>27</u>	<u>1230</u>	<u>45</u>	<u>340</u>	<u>27</u>	<u>1109</u>
P11 _____		<u>30</u>	<u>1243</u>	<u>50</u>	<u>347</u>	<u>30</u>	<u>1127</u>
P12 _____		<u>33</u>	<u>1250</u>	<u>55</u>	<u>353</u>	<u>33</u>	<u>1135</u>
P13 _____		<u>36</u>	<u>1258</u>	<u>60</u>	<u>359</u>	<u>36</u>	<u>1142</u>
P14 _____		<u>39</u>	<u>1265</u>			<u>39</u>	<u>1150</u>
P15 _____		<u>42</u>	<u>1271</u>			<u>42</u>	<u>1157</u>
P16 _____		<u>45</u>	<u>1276</u>			<u>45</u>	<u>1165</u>
P17 _____						<u>48</u>	<u>1171</u>
P18 _____						<u>51</u>	<u>1176</u>
P19 _____						<u>54</u>	<u>1180</u>
P20 _____						<u>57</u>	<u>1186</u>
						<u>60</u>	<u>1190</u>

Rt# 2396

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Company Pendleton Land & Exploration, Inc. Lease & Well No. Schauf #1
Elevation 2747 Formation Ft. Scott Effective Pay -- Ft. Ticket No. 2398
Date 4/24/79 Sec. 16 Twp. 27S Range 29W County Gray State Kansas
Test Approved by Thomas R. Satter Western Representative Vernon Wondra
Formation Test No. 12 Interval Tested from 4686 ft. to 4742 ft. Total Depth 4742 ft.
Packer Depth 4681 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4686 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4695 ft. Recorder Number 3354 Cap. 4200
Bottom Recorder Depth (Outside) 4698 ft. Recorder Number 2605 Cap. 4150
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Brandt Drilling Co. Rig #2 Drill Collar Length 251 I. D. 2 1/4 in.
Mud Type drispac Viscosity 47 Weight Pipe Length 310 I. D. 2.7 in.
Weight 8.0 Water Loss 12.4 cc. Drill Pipe Length 4094 I. D. 3.8 in.
Chlorides 12,000 P.P.M. Test Tool Length 31' Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 56 ft. Size 5 1/2 OD + 31' DP 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 4 1/2 FH in.

Blow: Very weak blow; died in 20 minutes on first flow period. No blow on second flow period.

Recovered 135 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 12:45 ~~P.M.~~ A.M. Maximum Temperature
Initial Hydrostatic Pressure 2246 P.S.I.
Initial Flow Period 30 Minutes (B) 53 P.S.I. to (C) 72 P.S.I.
Initial Closed In Period 45 Minutes (D) 1087 P.S.I.
Final Flow Period 30 Minutes (E) 97 P.S.I. to (F) 103 P.S.I.
Final Closed In Period 60 Minutes (G) 998 P.S.I.
Final Hydrostatic Pressure 2229 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 4/24/79 Test Ticket No. 2398
 Recorder No. 3354 Capacity 4200 Location 4695 Ft.
 Clock No. -- Elevation 2747 Well Temperature -- °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2246	P.S.I.	10:00P	M
B First Initial Flow Pressure	53	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	72	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	1087	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	97	P.S.I.	60	Mins. 60 Mins.
F Second Final Flow Pressure	103	P.S.I.		
G Final Closed-in Pressure	998	P.S.I.		
H Final Hydrostatic Mud	2229	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a		
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	53	0	72	0	97	0	103
P 2	5	53	3	167	5	91	3	173
P 3	10	59	6	316	10	93	6	268
P 4	15	63	9	443	15	95	9	369
P 5	20	70	12	593	20	99	12	477
P 6	25	71	15	728	25	103	15	570
P 7	30	72	18	825	30	103	18	656
P 8			21	886			21	717
P 9			24	930			24	772
P10			27	966			27	816
P11			30	998			30	842
P12			33	1021			33	867
P13			36	1048			36	892
P14			39	1061			39	909
P15			42	1074			42	928
P16			45	1087			45	945
P17							48	954
P18							51	965
P19							54	977
P20							57	989
							60	998

Tkt # 2398
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