



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 7448

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation MAR. Eff. Pay _____ Ft.

District GREAT BEND Date 12/15/80 Customer Order No. _____

COMPANY NAME PENDLETON LAND & EXPLORATION INC.

ADDRESS 1700 SECURITY LIFE BUILDING DENVER COLO. 80202

LEASE AND WELL NO. VIRGINIA GLEASON #1 COUNTY HODGEMAN STATE KS Sec. 5 Twp. 24S Rge. 21W

Mail Invoice To same as above No. Copies Requested 5

Co. Name _____ Address _____

Mail Charts To same as above No. Copies Requested 5

Address _____

Formation Test No. 1 Interval Tested from 4405 ft. to 4440 ft. Total Depth 4440 ft.

Packer Depth 4400 ft. Size 6 3/4 in. Packer Depth 4405 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) 4426 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4430 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor SILVERADO R.g # 8 Drill Collar Length 430' I. D. 2.2 in.

Mud Type CHEM. DRISPAK Viscosity 45 Weight Pipe Length _____ I. D. _____ in.

Weight 8.9 Water Loss 8.7 cc. Drill Pipe Length 3947 I. D. 3.8 in.

Chlorides 24,000 P.P.M. Test Tool Length 28' ft. Tool Size 4.5 in.

Jars: Make BOWEN Serial Number 420 Anchor Length 35' ft. Size 5.5 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 4.5 in.

Blow: 1ST - WEAK BLOW THROUGHOUT INITIAL FLOW PERIOD

2ND - NO BLOW - FLUSHED TOOL AFTER 20 MIN - WEAK BLOW PERIOD

Recovered 20' ft. of STCCM 2% oil

Recovered _____ ft. of slightly oil cut MWD

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location 7:50 A.M. Time Pick Up Tool _____ A.M.

Time Set Packer(s) 12:25 A.M. Time Started Off Bottom 3:25 A.M. Time Off Location _____ A.M.

Initial Hydrostatic Pressure _____ (A) 2170 P.S.I. Maximum Temperature 118°

Initial Flow Period _____ Minutes 15 (B) 70 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 105 P.S.I.

Final Flow Period _____ Minutes 60 (E) 70 P.S.I. to (F) 70 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 82 P.S.I.

Final Hydrostatic Pressure _____ (H) 2053 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By _____

Signature of Customer or his authorized representative

Western Representative

Donell Clapham

Thank you

FIELD INVOICE

Open Hole Test \$ 600.00

Misrun \$ _____

Straddle Test \$ _____

Jars \$ 300.00

Selective Zone \$ _____

Safety Joint \$ 50.00

Standby \$ _____

Evaluation \$ _____

Extra Packer \$ _____

Circ. Sub. \$ _____

Mileage 80 \$ 60.00

Fluid Sampler \$ _____

Extra Charts \$ _____

Insurance \$ 40.00

TOTAL \$ 1050.00

WESTERN TESTING CO., INC.

Pressure Data

Date 12-15 Recorder No. 10266 Capacity 4650 Test Ticket No. 7448 Location 4426 Ft. 118 °F
 Clock No. _____ Elevation _____ Well Temperature _____

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2170</u> P.S.I.		<u>12:25</u> P.M.	
B First Initial Flow Pressure	<u>110</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>73</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>80</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>80</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>54</u> Mins.
F Second Final Flow Pressure	<u>77</u> P.S.I.			
G Final Closed-in Pressure	<u>85</u> P.S.I.			
H Final Hydrostatic Mud	<u>2067</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>18</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>110</u>	<u>0</u>	<u>73</u>	<u>0</u>	<u>80</u>	<u>0</u>	<u>77</u>
P 2 <u>5</u>	<u>83</u>	<u>3</u>	<u>74</u>	<u>5</u>	<u>74</u>	<u>3</u>	<u>77</u>
P 3 <u>10</u>	<u>75</u>	<u>6</u>	<u>75</u>	<u>10</u>	<u>72</u>	<u>6</u>	<u>77</u>
P 4 <u>15</u>	<u>73</u>	<u>9</u>	<u>76</u>	<u>15</u>	<u>Flushed Tool</u>	<u>9</u>	<u>78</u>
P 5 <u>20</u>		<u>12</u>	<u>78</u>	<u>20</u>	<u>114</u>	<u>12</u>	<u>79</u>
P 6 <u>25</u>		<u>15</u>	<u>80</u>	<u>25</u>	<u>91</u>	<u>15</u>	<u>80</u>
P 7 <u>30</u>		<u>18</u>	<u>83</u>	<u>30</u>	<u>85</u>	<u>18</u>	<u>80</u>
P 8 <u>35</u>		<u>21</u>	<u>86</u>	<u>35</u>	<u>83</u>	<u>21</u>	<u>81</u>
P 9 <u>40</u>		<u>24</u>	<u>89</u>	<u>40</u>	<u>80</u>	<u>24</u>	<u>82</u>
P10 <u>45</u>		<u>27</u>	<u>92</u>	<u>45</u>	<u>77</u>	<u>27</u>	<u>83</u>
P11 <u>50</u>		<u>30</u>	<u>94</u>	<u>50</u>	<u>(</u>	<u>30</u>	<u>84</u>
P12 <u>55</u>		<u>33</u>	<u>98</u>	<u>55</u>	<u>)</u>	<u>33</u>	<u>84</u>
P13 <u>60</u>		<u>36</u>	<u>100</u>	<u>60</u>	<u>77</u>	<u>36</u>	<u>84</u>
P14		<u>39</u>	<u>98</u>	<u>65</u>		<u>39</u>	<u>85</u>
P15		<u>42</u>	<u>85</u>	<u>70</u>		<u>42</u>	<u>85</u>
P16		<u>45</u>	<u>80</u>	<u>75</u>		<u>45</u>	<u>85</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>(</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>)</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>85</u>
P20		<u>57</u>				<u>57</u>	<u>X</u>
		<u>60</u>				<u>60</u>	<u>60</u>

Company Pendleton Land & Exploration, Inc. Lease & Well No. Virginia Gleason #1
Elevation - Formation Marmaton Effective Pay - Ft. Ticket No. 7448
Date 12-15-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
Test Approved by John Youle Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 4405 ft. to 4440 ft. Total Depth 4440 ft.

Packer Depth 4400 ft. Size 6 3/4 in. Packer Depth 4405 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) 4426 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4430 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor Silverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.

Mud Type Chemical Drispac Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 8.9 Water Loss 8.7 cc. Drill Pipe Length 3947 I. D. 3.8 in.

Chlorides 24,000 P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.

Jars: Make WTC Serial Number 420 Anchor Length 35 ft. Size 5.5 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 4.5 in.

Blow: Very weak blow throughout initial flow period. Final flow period no blow. Flushed tool.
after 20 minutes- weak blow died.

Recovered 20 ft. of slightly oil cut mud - 2% oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:25 A.M. Time Started Off Bottom 3:25 A.M. Maximum Temperature 118
P.M. P.M.

Initial Hydrostatic Pressure 2170 P.S.I. (A)

Initial Flow Period 15 Minutes (B) 110 P.S.I. to (C) 73 P.S.I.

Initial Closed In Period 45 Minutes (D) 80 P.S.I.

Final Flow Period 60 Minutes (E) 80 P.S.I. to (F) 77 P.S.I.

Final Closed In Period 54 Minutes (G) 85 P.S.I.

Final Hydrostatic Pressure 2067 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

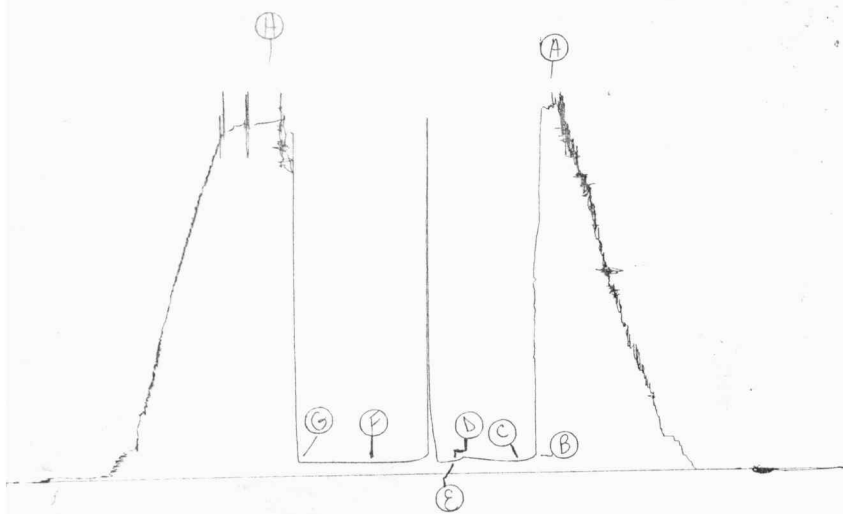
Date 12-15-80 Test Ticket No. 7448
 Recorder No. 10266 Capacity 4650 Location 4426 Ft.
 Clock No. - Elevation - Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2170	P.S.I.	12:25P	M
B First Initial Flow Pressure	110	P.S.I.	15	Mins. 15 Mins.
C First Final Flow Pressure	73	P.S.I.	45	Mins. 45 Mins.
D Initial Closed-in Pressure	80	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	80	P.S.I.	60	Mins. 54 Mins.
F Second Final Flow Pressure	77	P.S.I.		
G Final Closed-in Pressure	85	P.S.I.		
H Final Hydrostatic Mud	2067	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>18</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>	110	0	73	0	80	0	77
P 2 <u>5</u>	83	3	74	5	74	3	77
P 3 <u>10</u>	75	6	75	10	72	6	77
P 4 <u>15</u>	73	9	76	15	Flushed Tool	9	78
P 5		12	78	20	114	12	79
P 6		15	80	25	91	15	80
P 7		18	83	30	85	18	80
P 8		21	86	35	83	21	81
P 9		24	89	40	80	24	82
P10		27	92	45	77	27	83
P11		30	94	50	77	30	84
P12		33	98	55	77	33	84
P13		36	100	60	77	36	84
P14		39	98			39	85
P15		42	85			42	85
P16		45	80			45	85
P17						48	85
P18						51	85
P19						54	85
P20							

TRT # 7448
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 7449

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation CHEROKEE Eff. Pay _____ Ft.

District GREAT BEND Date 12/16/80 Customer Order No. _____

COMPANY NAME PENALTON LAND + EXPLORATION INC.

ADDRESS 1700 Security Life Building Denver Colo. 80202

LEASE AND WELL NO. Virginia Gleason #1 COUNTY Hodges STATE Ks. Sec. 5 Twp 24S Rge 21W

Mail Invoice To same as above No. Copies Requested 5

Co. Name _____ Address _____

Mail Charts To same as above No. Copies Requested 5

Address _____

Formation Test No. 2 Interval Tested from 4581 ft. to 4630 ft. Total Depth 4630 ft.

Packer Depth 4576 ft. Size 6 3/4 in. Packer Depth 4581 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) 4615 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4619 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor SILVERADO DRILL CO. Rg #8 Drill Collar Length 430' I. D. 2.2 in.

Mud Type DRISPAK Viscosity 46 Weight Pipe Length _____ I. D. _____ in.

Weight 9.1 Water Loss 16.4 cc. Drill Pipe Length 412.3 I. D. 3.8 in.

Chlorides 22,000 P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.

Jars: Make Bowen Serial Number 420 Anchor Length 49' ft. Size 5.5 in.

Did Well Flow? oil NO Reversed Out YES Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

GAS YES Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in.

Blow: 1ST - WEAK BUILDING TO STRONG IN 2 MEN 1" TO 13"

2ND - STRONG BLOW GAS TO SURFACE IN 5 MEN

1815 ft. of gassy oil 43 gravity

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: SEE GAGE REPORT LET STRING HANG UNTIL DAYLIGHT

HRS

Time On Location 7:15 A.M. Time Pick Up Tool _____ A.M. Time Off Location _____ A.M.

Time Set Packer(s) 11:10 A.M. Time Started Off Bottom 2:10 A.M. Maximum Temperature _____ P.M.

Initial Hydrostatic Pressure _____ (A) 2345 P.S.I.

Initial Flow Period _____ Minutes 15 (B) 176 P.S.I. to (C) 234 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 1437 P.S.I.

Final Flow Period _____ Minutes 60 (E) 328 P.S.I. to (F) 644 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1367 P.S.I.

Final Hydrostatic Pressure _____ (H) 2228 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

Western Representative Danell Chapman

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 50.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ 30.00
Mileage 25 \$ 18.75
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 998.75



GAS FLOW REPORT

Nº 1615

Date 12/16/80 Ticket # 7449 Company PENDLETON LAND EXPLORATION
 Well Name and No. GLEASON #1 Dst No. 2 Interval Tested 4581-4630
 County HODGEMAN State KS Sec. 5 Twp. 24S Rg. 21W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

SECOND FLOW

2ND FLOW OPENED AT 12:10 A.M. GAS TO SURFACE AT 12:15 A.M.

5 MIN	1.5 # 95	1/4"	—	—	11,020 C.F.P.D
10 MIN	2.0 # 95	1/4"	—	—	12,700 C.F.P.D
15 "	2.0 # 120	1/8"	—	—	2,360 C.F.P.D
20 "	2.0 # 120	1/8"	—	—	1,180 C.F.P.D
25 "	2.0 # 120	1/8"	—	—	1,670 C.F.P.D
30 "	2.0 # 120	1/8"	—	—	1,670 C.F.P.D
35 "	2.0 # 120	1/8"	—	—	2,690 C.F.P.D
40 "	2.0 # 120	1/8"	—	—	2,180 " " " "
45 "	2.0 # 120	1/8"	—	—	1,670 " "
50 MIN	2.0 # 120	1/8"	—	—	1,670 " "
55 MIN	2.0 # 120	1/8"	—	—	1,180 " "
60 MIN	2.0 # 120	1/8"	—	—	1,180 " "

GAS BOTTLE

Serial No. 12666 Date Bottle Filled 12/17/80 Date to be Invoiced 1/17/80

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 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

Authorized by

WESTERN TESTING CO., INC.

Pressure Data

Date 12-16

Test Ticket No. 7449

Recorder No. 10266

Capacity 4650

Location 4615 Ft.

Clock No. _____ Elevation _____

Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u>	P.S.I.	<u>11:10</u> P	<u>8</u> M
B First Initial Flow Pressure	<u>183</u>	P.S.I.	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>249</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1446</u>	P.S.I.	<u>60</u> Mins.	<u>55</u> Mins.
E Second Initial Flow Pressure	<u>343</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>661</u>	P.S.I.		
G Final Closed-in Pressure	<u>1383</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2248</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</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>183</u>	<u>0</u>	<u>249</u>	<u>0</u>	<u>343</u>	<u>0</u>	<u>661</u>
P 2 <u>5</u>	<u>207</u>	<u>3</u>	<u>1323</u>	<u>5</u>	<u>344</u>	<u>3</u>	<u>1205</u>
P 3 <u>10</u>	<u>249</u>	<u>6</u>	<u>1356</u>	<u>10</u>	<u>359</u>	<u>6</u>	<u>1230</u>
P 4 <u>15</u>		<u>9</u>	<u>1372</u>	<u>15</u>	<u>391</u>	<u>9</u>	<u>1249</u>
P 5 <u>20</u>		<u>12</u>	<u>1386</u>	<u>20</u>	<u>423</u>	<u>12</u>	<u>1270</u>
P 6 <u>25</u>		<u>15</u>	<u>1395</u>	<u>25</u>	<u>460</u>	<u>15</u>	<u>1284</u>
P 7 <u>30</u>		<u>18</u>	<u>1406</u>	<u>30</u>	<u>499</u>	<u>18</u>	<u>1295</u>
P 8 <u>35</u>		<u>21</u>	<u>1413</u>	<u>35</u>	<u>535</u>	<u>21</u>	<u>1306</u>
P 9 <u>40</u>		<u>24</u>	<u>1420</u>	<u>40</u>	<u>568</u>	<u>24</u>	<u>1317</u>
P10 <u>45</u>		<u>27</u>	<u>1425</u>	<u>45</u>	<u>600</u>	<u>27</u>	<u>1325</u>
P11 <u>50</u>		<u>30</u>	<u>1430</u>	<u>50</u>	<u>635</u>	<u>30</u>	<u>1333</u>
P12 <u>55</u>		<u>33</u>	<u>1435</u>	<u>55</u>	<u>661</u>	<u>33</u>	<u>1339</u>
P13 <u>60</u>		<u>36</u>	<u>1440</u>	<u>60</u>		<u>36</u>	<u>1345</u>
P14		<u>39</u>	<u>1442</u>	<u>65</u>		<u>39</u>	<u>1351</u>
P15		<u>42</u>	<u>1444</u>	<u>70</u>		<u>42</u>	<u>1357</u>
P16		<u>45</u>	<u>1446</u>	<u>75</u>		<u>45</u>	<u>1363</u>
P17		<u>48</u>		<u>80</u>		<u>48</u>	<u>1369</u>
P18		<u>51</u>		<u>85</u>		<u>51</u>	<u>1375</u>
P19		<u>54</u>		<u>90</u>		<u>54</u>	<u>1378</u>
P20		<u>57</u>				<u>57</u>	<u>1380</u>
		<u>60</u>				<u>60</u>	<u>1383</u>

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Cherokee Effective Pay - Ft. Ticket No. 7449
 Date 12-16-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 2 Interval Tested from 4581 ft. to 4630 ft. Total Depth 4630 ft.
 Packer Depth 4576 ft. Size 6 3/4 in. Packer Depth 4581 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) 4615 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4619 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Silverado Drilling Co Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type Drispac Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 16.4 cc. Drill Pipe Length 4123 I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 28 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 420 Anchor Length 49 ft. Size 5.5 in.
 Did Well Flow? Gas 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 4.5 in.

Blow: Initial flow period weak building to strong in two minutes (1" to 13") Final flow
period strong blow. Gas to surface in 5 minutes. See attached sheet for gas measurements

Recovered 1815 ft. of gassy oil 43 gravity
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s)	<u>11:10</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>2:10</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>-</u>
Initial Hydrostatic Pressure			(A)	<u>2367</u>		P.S.I.	
Initial Flow Period	Minutes <u>10</u>		(B)	<u>183</u>	P.S.I. to (C)	<u>249</u>	P.S.I.
Initial Closed In Period	Minutes <u>45</u>		(D)	<u>1446</u>		P.S.I.	
Final Flow Period	Minutes <u>55</u>		(E)	<u>343</u>	P.S.I. to (F)	<u>661</u>	P.S.I.
Final Closed In Period	Minutes <u>60</u>		(G)	<u>1383</u>		P.S.I.	
Final Hydrostatic Pressure			(H)	<u>2248</u>		P.S.I.	

GAS FLOW REPORT

Date 12-16-80 Ticket 7449 Company Pendleton Land & Exploration, Inc.
 Well Name and No. #1 Virginia Gleason Dst No. 2 Interval Tested 4581-4630
 County Hodgeman State Kansas Sec. 5 Twp. 24S Rg. 21W

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 at 12:15 A.M.
5 Min	1.5 PSIG	½" Orifice				11,020 C.F.P.D.
10 Min	2.0 PSIG	½" Orifice				12,700 C.F.P.D.
15 Min	20" water	1/8" Orifice				2,360 C.F.P.D.
20 Min	5" water	1/8" Orifice				1,180 C.F.P.D.
25 Min	10" water	1/8" Orifice				1,670 C.F.P.D.
30 Min	10" water	1/8" Orifice				1,670 C.F.P.D.
35 Min	26" water	1/8" Orifice				2,690 C.F.P.D.
40 Min	17" water	1/8" Orifice				2,180 C.F.P.D.
45 Min	10" water	1/8" Orifice				1,670 C.F.P.D.
50 Min	10" water	1/8" Orifice				1,670 C.F.P.D.
55 Min	5" water	1/8" Orifice				1,180 C.F.P.D.
60 Min	5" water	1/8" Orifice				1,180 C.F.P.D.

GAS BOTTLE

Serial No. 12666 Date Bottle Filled 12-16-80 Date to be Invoiced 12-16-80

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 Pendleton Land & Exploration, Inc.

Authorized by John Youle

WESTERN TESTING CO., INC.

Pressure Data

Date 12-16-80

Test Ticket No. 7449

Recorder No. 10266

Capacity 4650

Location 4615 Ft.

Clock No. - Elevation -

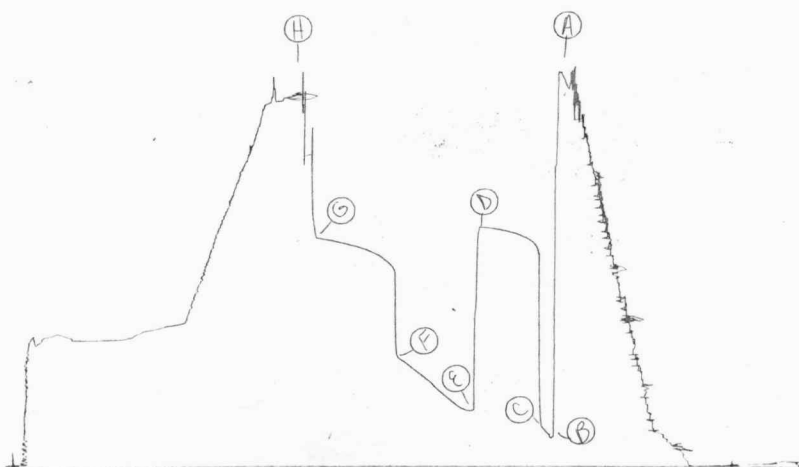
Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2367</u>	P.S.I.	<u>11:10P</u>	<u>M</u>
B First Initial Flow Pressure	<u>183</u>	P.S.I.	<u>15</u>	<u>Mins.</u> <u>10</u> <u>Mins.</u>
C First Final Flow Pressure	<u>249</u>	P.S.I.	<u>45</u>	<u>Mins.</u> <u>45</u> <u>Mins.</u>
D Initial Closed-in Pressure	<u>1446</u>	P.S.I.	<u>60</u>	<u>Mins.</u> <u>55</u> <u>Mins.</u>
E Second Initial Flow Pressure	<u>343</u>	P.S.I.	<u>60</u>	<u>Mins.</u> <u>60</u> <u>Mins.</u>
F Second Final Flow Pressure	<u>661</u>	P.S.I.		
G Final Closed-in Pressure	<u>1383</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2248</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>11</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>183</u>	<u>0</u>	<u>249</u>	<u>0</u>	<u>343</u>	<u>0</u>	<u>661</u>
P 2 <u>5</u>	<u>207</u>	<u>3</u>	<u>1323</u>	<u>5</u>	<u>344</u>	<u>3</u>	<u>1205</u>
P 3 <u>10</u>	<u>249</u>	<u>6</u>	<u>1356</u>	<u>10</u>	<u>359</u>	<u>6</u>	<u>1230</u>
P 4		<u>9</u>	<u>1372</u>	<u>15</u>	<u>391</u>	<u>9</u>	<u>1249</u>
P 5		<u>12</u>	<u>1386</u>	<u>20</u>	<u>423</u>	<u>12</u>	<u>1270</u>
P 6		<u>15</u>	<u>1395</u>	<u>25</u>	<u>460</u>	<u>15</u>	<u>1284</u>
P 7		<u>18</u>	<u>1406</u>	<u>30</u>	<u>499</u>	<u>18</u>	<u>1295</u>
P 8		<u>21</u>	<u>1413</u>	<u>35</u>	<u>535</u>	<u>21</u>	<u>1306</u>
P 9		<u>24</u>	<u>1420</u>	<u>40</u>	<u>568</u>	<u>24</u>	<u>1317</u>
P10		<u>27</u>	<u>1425</u>	<u>45</u>	<u>600</u>	<u>27</u>	<u>1325</u>
P11		<u>30</u>	<u>1430</u>	<u>50</u>	<u>635</u>	<u>30</u>	<u>1333</u>
P12		<u>33</u>	<u>1435</u>	<u>55</u>	<u>661</u>	<u>33</u>	<u>1339</u>
P13		<u>36</u>	<u>1440</u>			<u>36</u>	<u>1345</u>
P14		<u>39</u>	<u>1442</u>			<u>39</u>	<u>1351</u>
P15		<u>42</u>	<u>1444</u>			<u>42</u>	<u>1357</u>
P16		<u>45</u>	<u>1446</u>			<u>45</u>	<u>1363</u>
P17						<u>48</u>	<u>1369</u>
P18						<u>51</u>	<u>1375</u>
P19						<u>54</u>	<u>1378</u>
P20						<u>57</u>	<u>1380</u>
						<u>60</u>	<u>1383</u>

TKT # 7449



7489 10266



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 7450

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

Formation

Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

Hodgeman

STATE

Ks.

Sec.

Twp

Rge

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested from

ft. to

Total Depth

ft.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Packer Depth

ft.

Size

in.

Depth of Selective Zone Set

Top Recorder Depth (Inside)

ft.

Recorder Number

Cap.

Bottom Recorder Depth (Outside)

ft.

Recorder Number

Cap.

Below Straddle Recorder Depth

ft.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

Chlorides

P.P.M.

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

Weight Pipe Length

I. D.

Drill Pipe Length

I. D.

Test Tool Length

ft.

Tool Size

Anchor Length

ft.

Size

Surface Choke Size

in.

Bottom Choke Size

Main Hole Size

in.

Tool Joint Size

Blow:

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

TRIED TO RESET PACKERS - WOULD NOT HOLD

Time On Location

A.M.

P.M.

Time Pick Up Tool

A.M.

P.M.

Time Off Location

A.M.

P.M.

Time Set Packer(s)

A.M.

P.M.

Time Started Off Bottom

A.M.

P.M.

Maximum Temperature

Initial Hydrostatic Pressure

(A)

P.S.I.

Initial Flow Period

Minutes

(B)

P.S.I. to (C)

P.S.I.

Initial Closed In Period

Minutes

(D)

P.S.I.

Final Flow Period

Minutes

(E)

P.S.I. to (F)

P.S.I.

Final Closed In Period

Minutes

(G)

P.S.I.

Final Hydrostatic Pressure

(H)

P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Hole Test

\$

Misrun

\$

Straddle Test

\$

Jars

\$

Selective Zone

\$

Safety Joint

\$

Standby

\$

Evaluation

\$

Extra Packer

\$

Circ. Sub.

\$

Mileage

\$

Fluid Sampler

\$

Extra Charts

\$

Insurance

\$

TOTAL

\$

DEC 23 1980

Danell Chapman

300.00

300.00

18.75

618.75

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Warsaw Effective Pay - Ft. Ticket No. 7450
 Date 12-17-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 3 Interval Tested from 4628 ft. to 4650 ft. Total Depth 4650 ft.
 Packer Depth 4623 ft. Size 6 3/4 in. Packer Depth 4628 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) 4635 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4639 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Silverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type - Viscosity 48 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 13.2 cc. Drill Pipe Length - I. D. 3.8 in.
 Chlorides 22,000 P.P.M. Test Tool Length 28 ft. Tool Size 4 1/2 in.
 Jars: Make WTC Serial Number 420 Anchor Length 22 ft. Size 5 1/2 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 in.

Blow: _____

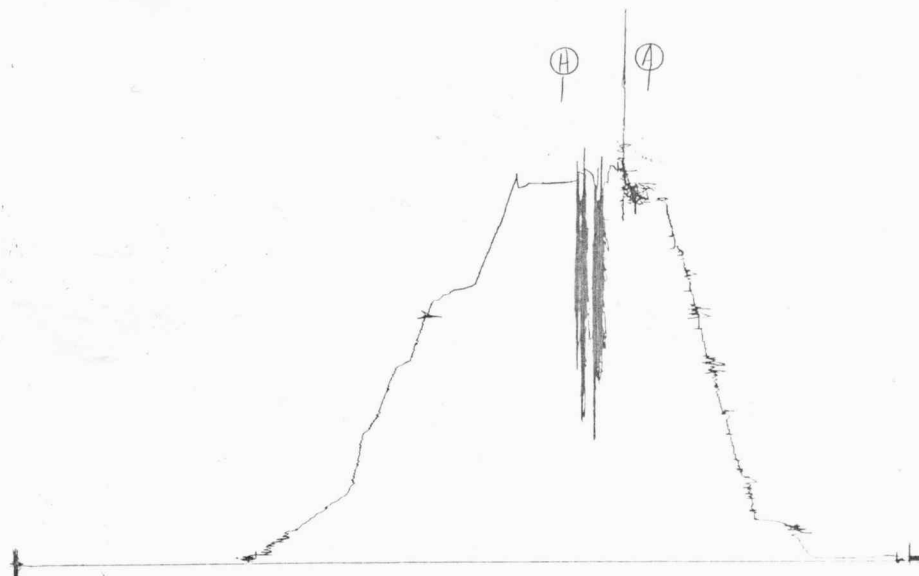
Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: MISRUN - PACKER FAILURE.
Tried to reset packers - would not hold

Time Set Packer(s) 12 - A.M. Time Started Off Bottom - P.M. Maximum Temperature -
 Initial Hydrostatic Pressure (A) 2334 P.S.I.
 Initial Flow Period Minutes - (B) - P.S.I. to (C) - P.S.I.
 Initial Closed In Period Minutes - (D) - P.S.I.
 Final Flow Period Minutes - (E) - P.S.I. to (F) - P.S.I.
 Final Closed In Period Minutes - (G) - P.S.I.
 Final Hydrostatic Pressure (H) 2264 P.S.I.

TKT # 7450

I



TKT # 7450

O





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 8976

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation

Formation

Eff. Pay Ft.

District

Date

Customer Order No.

COMPANY NAME

ADDRESS

LEASE AND WELL NO.

COUNTY

STATE

Sec.

Twp.

Rge.

Mail Invoice To

Co. Name

Address

No. Copies Requested

Mail Charts To

Address

No. Copies Requested

Formation Test No.

Interval Tested from

ft. to

Total Depth

ft.

Packer Depth

ft.

Size

Packer Depth

ft.

Size

Packer Depth

ft.

Size

Packer Depth

ft.

Size

Depth of Selective Zone Set

Top Recorder Depth (Inside)

Bottom Recorder Depth (Outside)

Below Straddle Recorder Depth

Recorder Number

Cap.

Recorder Number

Cap.

Recorder Number

Cap.

Drilling Contractor

Mud Type

Viscosity

Weight

Water Loss

Chlorides

P.P.M.

Jars: Make

Serial Number

Did Well Flow?

Reversed Out

Drill Collar Length

I. D.

Weight Pipe Length

I. D.

Drill Pipe Length

I. D.

Test Tool Length

Tool Size

Anchor Length

Size

Surface Choke Size

Bottom Choke Size

Main Hole Size

Tool Joint Size

Blow: 1ST WEAK BLOW SLOWLY DYING 3/4"

2ND NO BLOW - FLUSHED TOOL SEVERAL BUBBLES FOR ABOUT 10 MEN.

Recovered 70' ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time On Location

A.M.

Time Pick Up Tool

A.M.

Time Off Location

A.M.

Time Set Packer(s)

A.M.

Time Started Off Bottom

A.M.

Maximum Temperature

P.M.

Initial Hydrostatic Pressure

(A)

P.S.I.

Initial Flow Period

Minutes

(B)

P.S.I. to (C)

P.S.I.

Initial Closed In Period

Minutes

(D)

P.S.I.

Final Flow Period

Minutes

(E)

P.S.I. to (F)

P.S.I.

Final Closed In Period

Minutes

(G)

P.S.I.

Final Hydrostatic Pressure

(H)

P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By

Signature of Customer or his authorized representative

Western Representative

FIELD INVOICE

Open Joint Test	\$	
Misrun	\$	300.00
Straddle Test	\$	
Jars	\$	300.00
Selective Zone	\$	
Safety Joint	\$	
Standby	\$	
Evaluation	\$	
Extra Packer	\$	
Circ. Sub.	\$	
Mileage	\$	
Fluid Sampler	\$	
Extra Charts	\$	
Insurance	\$	
TOTAL	\$	600.00

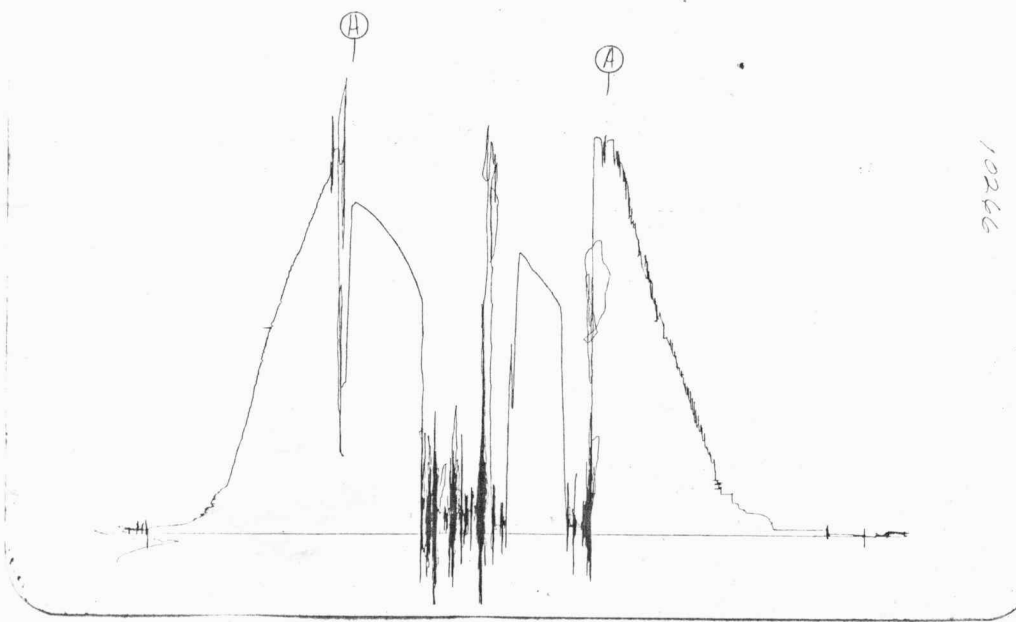
Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Osage Effective Pay - Ft. Ticket No. 8976
 Date 12-18-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 4 Interval Tested from 4644 ft. to 4650 ft. Total Depth 4650 ft.
 Packer Depth 4639 ft. Size 6 3/4 in. Packer Depth 4644 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) 4629 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4645 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Silverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type Drispac Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 15.8 cc. Drill Pipe Length 4188 I. D. 3.8 in.
 Chlorides 26,000 P.P.M. Test Tool Length 26 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 420 Anchor Length 6 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow slowly dying (3/4"). Final flow period - no blow.
Flushed tool several bubbles for about ten minutes.

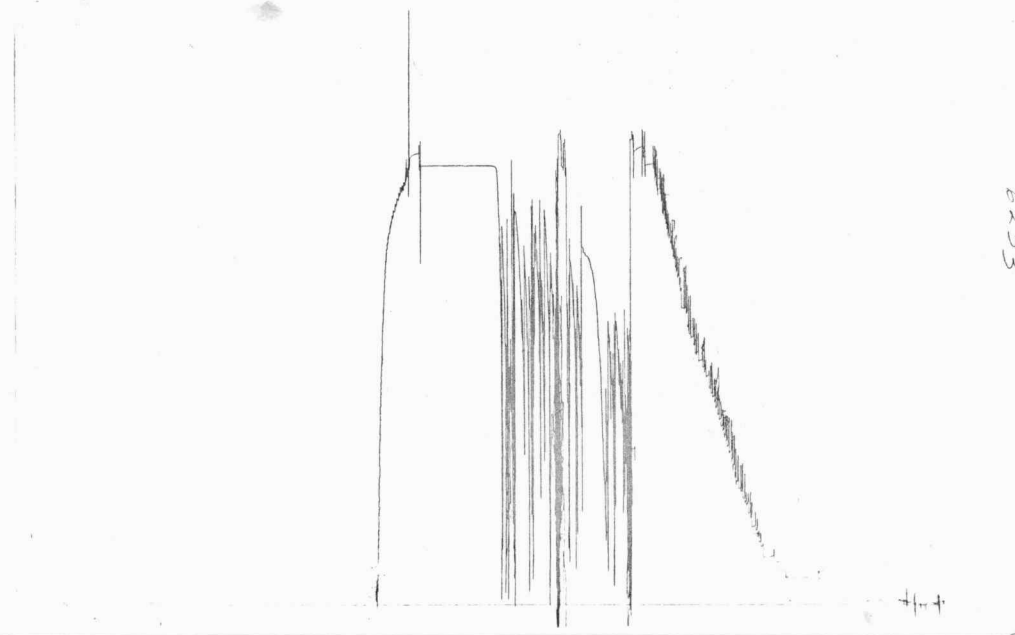
Recovered 70 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: MISRUN - PLUGGED TOOL & ANCHOR. Slid tool approx 7 ft. to bottom.

Time Set Packer(s) 3:45 ~~A.M.~~ P.M. Time Started Off Bottom 6:45 ~~A.M.~~ P.M. Maximum Temperature -
 Initial Hydrostatic Pressure 2364 (A) P.S.I.
 Initial Flow Period 15 Minutes (B) - P.S.I. to (C) - P.S.I.
 Initial Closed In Period 45 Minutes (D) - P.S.I.
 Final Flow Period 60 Minutes (E) - P.S.I. to (F) - P.S.I.
 Final Closed In Period 60 Minutes (G) - P.S.I.
 Final Hydrostatic Pressure 2308 (H) P.S.I.

TKT # 8976
I



TKT # 8976
O





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 8977

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation Formation OSAGE Eff. Pay — Ft.

District GREAT BEND Date 12/19/80 Customer Order No. —

COMPANY NAME Pendleton Land & Exploration

ADDRESS 4709 Security Life Building

LEASE AND WELL NO. Gleason #18 COUNTY Hodgeman STATE Ks. Sec. 5 Twp 24S Rge 21W

Mail Invoice To *1 Virginia Gleason same as above No. Copies Requested 5

Co. Name Address

Mail Charts To same as above No. Copies Requested 5

Formation Test No. 5 Interval Tested from 4644 ft. to 4650 ft. Total Depth 4650 ft.

Packer Depth 4639 ft. Size 6 3/4 in. Packer Depth 4644 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) 4629 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4645 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor SILVERADO Rig #8 Drill Collar Length 430' I. D. 2.2 in.

Mud Type DRISPAK Viscosity 49 Weight Pipe Length — I. D. — in.

Weight 9.35 Water Loss 12.9 cc. Drill Pipe Length 4188 I. D. 3.8 in.

Chlorides 30,000 P.P.M. Test Tool Length 26' ft. Tool Size 4.5 in.

Jars: Make Bowen Serial Number 420 Anchor Length 6' ft. Size 5.5 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Initial flow period Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in.

Blow: 1ST - WEAR BLOW SLOWLY BUILDING (INTERMITTENT BLOW) 1/2" TO 2"

2ND - NEAR INTERMITTENT 1/2" FLUSHED TOOL NO HELP - FLUSHED TOOL - FLUSHED TOOL

Recovered 120' ft. of MUD PERSON TRACE OF OIL ON TOP OF TOOL + 2ND

Recovered — ft. of COLLAR GRIND OUT - 1900'

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Remarks: SLED TOOL APPRX 6' HIT BRIDGES ON 4TH, 5TH, + 8TH STANDS

OUT OF HOLE

Time On Location 8:30 A.M. Time Pick Up Tool — A.M. Time Off Location — A.M.

Time Set Packer(s) 1:00 A.M. Time Started Off Bottom — A.M. Maximum Temperature — P.M.

Initial Hydrostatic Pressure (A) 2334 P.S.I.

Initial Flow Period Minutes 30 (B) PLUGGED P.S.I. to (C) 46 P.S.I.

Initial Closed In Period Minutes 45 (D) 1774 P.S.I.

Final Flow Period Minutes 60 (E) PLUGGED P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 60 (G) 1634 P.S.I.

Final Hydrostatic Pressure (H) 2264 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By John Paul
Signature of Customer or his authorized representative

Western Representative Danell Clapham

FIELD INVOICE

Open Hole Test \$ 300.00
Misrun \$ 300.00
Straddle Test \$ 300.00
Jars \$ 300.00
Selective Zone \$ 18.75
Safety Joint \$ 18.75
Standby \$ 18.75
Evaluation \$ 18.75
Extra Packer \$ 18.75
Circ. Sub. \$ 18.75
Mileage 25 \$ 18.75
Fluid Sampler \$ 18.75
Extra Charts \$ 18.75
Insurance \$ 18.75
TOTAL \$ 618.75

WESTERN TESTING CO., INC.
Pressure Data

Date 12-19

Test Ticket No. 8977

Recorder No. 10266

Capacity 4650

Location 4629 Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2343</u> P.S.I.	<u>1:00</u> P	<u>M</u>
B First Initial Flow Pressure	<u>59*</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>73*</u> P.S.I.	<u>45</u> Mins.	<u>33</u> Mins.
D Initial Closed-in Pressure	<u>1800</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>Plugged</u> P.S.I.	<u>60</u> Mins.	<u>51</u> Mins.
F Second Final Flow Pressure	<u>80</u> P.S.I.		
G Final Closed-in Pressure	<u>1662</u> P.S.I.		
H Final Hydrostatic Mud	<u>2262</u> P.S.I.		

* Pressures questionable due to plugging action.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>17</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	<u>59*</u>	0	<u>73*</u>	0	<u>Plugged</u>	0	<u>80</u>
P 2 5	<u>Plugged</u>	3	<u>127</u>	5		3	<u>1607</u>
P 3 10	<u>49*</u>	6	<u>1447</u>	10		6	<u>1660</u>
P 4 15	<u>59*</u>	9	<u>1505</u>	15		9	<u>1670</u>
P 5 20	<u>66*</u>	12	<u>1560</u>	20		12	<u>1674</u>
P 6 25	<u>70*</u>	15	<u>1612</u>	25		15	<u>1678</u>
P 7 30	<u>73*</u>	18	<u>1653</u>	30	<u>Plugged</u>	18	<u>1680</u>
P 8 35		21	<u>1693</u>	35	<u>Plugged</u>	21	<u>1681</u>
P 9 40		24	<u>1726</u>	40	<u>101*</u>	24	<u>1679</u>
P10 45		27	<u>1753</u>	45	<u>77*</u>	27	<u>1677</u>
P11 50		30	<u>1786</u>	50	<u>76*</u>	30	<u>1676</u>
P12 55		33	<u>1800</u>	55	<u>77</u>	33	<u>1673</u>
P13 60		36		60	<u>80</u>	36	<u>1672</u>
P14		39		65		39	<u>1674</u>
P15		42		70		42	<u>1673</u>
P16		45		75		45	<u>1670</u>
P17		48		80		48	<u>1665</u>
P18		51		85		51	<u>1662</u>
P19		54		90		54	
P20		57				57	
		60				60	

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Osage Effective Pay - Ft. Ticket No. 8977
 Date 12-19-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 5 Interval Tested from 4644 ft. to 4650 ft. Total Depth 4650 ft.
 Packer Depth 4639 ft. Size 6 3/4 in. Packer Depth 4644 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) 4629 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4645 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Silverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type Drispac Viscosity 49 Weight Pipe Length - I. D. - in.
 Weight 9.35 Water Loss 17.9 cc. Drill Pipe Length 4188 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 26 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 420 Anchor Length 6 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period weak blow slowly building (intermittent blow) 1/2" to 2". Final
flow period weak intermittent 1/2". Flushed tool. No help. Flushed tool-Flushed tool.

Recovered 120 ft. of mud rainbow show oil- trace of oil on top of tool & 2nd collar
 Recovered - ft. of Grind out - 19% oil.

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: Slid tool approx 6 ft. Hit bridges on 4th, 5th, & 8th stands out of hole.

Time Set Packer(s) 1:00 A.M. Time Started Off Bottom - P.M. Maximum Temperature -
 Initial Hydrostatic Pressure (A) 2343 P.S.I.
 Initial Flow Period Minutes 30 (B) 59* P.S.I. to (C) 73* P.S.I.
 Initial Closed In Period Minutes 33 (D) 1800 P.S.I.
 Final Flow Period Minutes 60 (E) Plugged P.S.I. to (F) 80 P.S.I.
 Final Closed In Period Minutes 51 (G) 1662 P.S.I.
 Final Hydrostatic Pressure (H) 2262 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-19-20 Recorder No. 10266 Capacity 4650 Test Ticket No. 8977
 Location 4629 Ft.
 Clock No. - Elevation - Well Temperature - °F

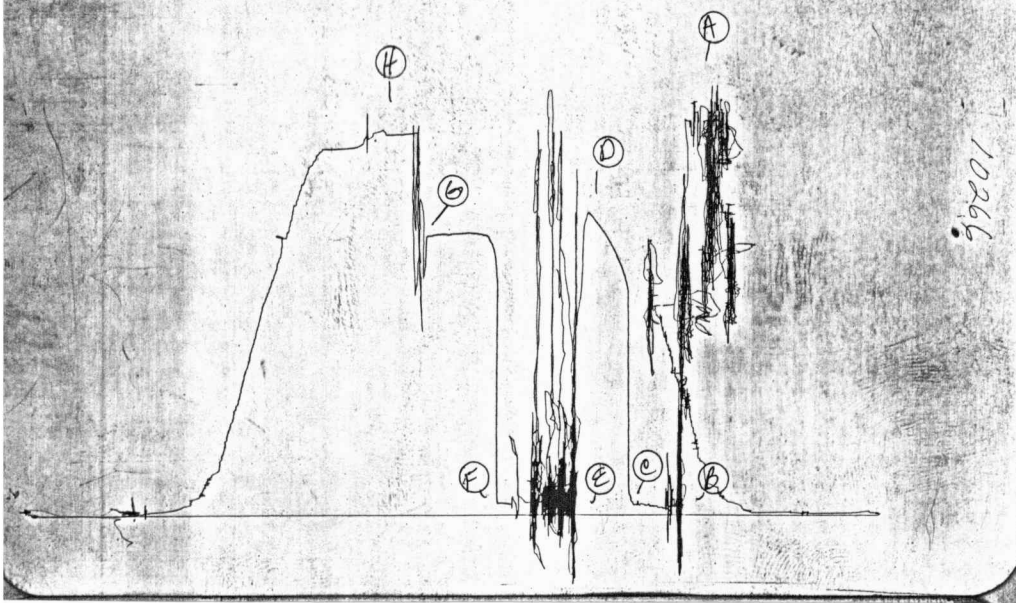
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2343 P.S.I.	1:00 P	M
B First Initial Flow Pressure	59* P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	73* P.S.I.	45 Mins.	33 Mins.
D Initial Closed-in Pressure	1800 P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	Plugged P.S.I.	60 Mins.	51 Mins.
F Second Final Flow Pressure	80 P.S.I.	*Pressures questionable due to plugging action.	
G Final Closed-in Pressure	1662 P.S.I.		
H Final Hydrostatic Mud	2262 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>11</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>17</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>59*</u>	<u>0</u>	<u>73*</u>	<u>0</u>	<u>Plugged</u>	<u>0</u>	<u>80</u>
P 2 <u>5</u>	<u>Plugged</u>	<u>3</u>	<u>127</u>	<u>5</u>	<u>Plugged</u>	<u>3</u>	<u>1607</u>
P 3 <u>10</u>	<u>49*</u>	<u>6</u>	<u>1447</u>	<u>10</u>	<u>Plugged</u>	<u>6</u>	<u>1660</u>
P 4 <u>15</u>	<u>59*</u>	<u>9</u>	<u>1505</u>	<u>15</u>	<u>Plugged</u>	<u>9</u>	<u>1670</u>
P 5 <u>20</u>	<u>66*</u>	<u>12</u>	<u>1560</u>	<u>20</u>	<u>Plugged</u>	<u>12</u>	<u>1674</u>
P 6 <u>25</u>	<u>70*</u>	<u>15</u>	<u>1612</u>	<u>25</u>	<u>Plugged</u>	<u>15</u>	<u>1678</u>
P 7 <u>30</u>	<u>73*</u>	<u>18</u>	<u>1653</u>	<u>30</u>	<u>Plugged</u>	<u>18</u>	<u>1680</u>
P 8 <u> </u>	<u> </u>	<u>21</u>	<u>1693</u>	<u>35</u>	<u>Plugged</u>	<u>21</u>	<u>1681</u>
P 9 <u> </u>	<u> </u>	<u>24</u>	<u>1726</u>	<u>40</u>	<u>101*</u>	<u>24</u>	<u>1679</u>
P10 <u> </u>	<u> </u>	<u>27</u>	<u>1753</u>	<u>45</u>	<u>77*</u>	<u>27</u>	<u>1677</u>
P11 <u> </u>	<u> </u>	<u>30</u>	<u>1786</u>	<u>50</u>	<u>76*</u>	<u>30</u>	<u>1676</u>
P12 <u> </u>	<u> </u>	<u>33</u>	<u>1800</u>	<u>55</u>	<u>77</u>	<u>33</u>	<u>1673</u>
P13 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>60</u>	<u>80</u>	<u>36</u>	<u>1672</u>
P14 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>39</u>	<u>1674</u>
P15 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>42</u>	<u>1673</u>
P16 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>45</u>	<u>1670</u>
P17 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>48</u>	<u>1665</u>
P18 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>51</u>	<u>1662</u>
P19 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
P20 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

TKT #8977

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO. 8978

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation OSAGE Eff. Pay _____ Ft.

District GREAT BEND Date 12/20/80 Customer Order No. _____

COMPANY NAME Pendleton Land & Exploration Inc.

ADDRESS 1700 Security Life Building

LEASE AND WELL NO. Gleason #1 COUNTY Hodgeman STATE KS Sec. 5 Twp 24S Rge 21W

Mail Invoice To #1 Virginia Gleason as above No. Copies Requested 5
Co. Name _____ Address _____

Mail Charts To same as above No. Copies Requested 5
Address _____

Formation Test No. 6 Interval Tested from 4646 ft. to 4660 ft. Total Depth 4660 ft.

Packer Depth 4641 ft. Size 6 3/4 in. Packer Depth 4646 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) 4647 ft.

Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4651 ft.

Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth _____ ft.

Recorder Number _____ Cap. _____

Drilling Contractor Silverado Rig #8

Drill Collar Length 430' I. D. 2.2 in.

Mud Type DRISPA Viscosity 520

Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 20.2 cc.

Drill Pipe Length 4190 I. D. 3.8 in.

Chlorides 31,000 P.P.M.

Test Tool Length 26 ft. Tool Size 4.5 in.

Jars: Make Bowen Serial Number 420

Anchor Length 14' ft. Size 5.5 in.

Did Well Flow? NO Reversed Out YES

Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Initial Flow Period _____

Main Hole Size 7 7/8 in. Tool Joint Size 4.5 in.

Blow: 1ST - STRONG BLOW OFF BOT. OF BUCKET IMMEDIATELY

2ND - STRONG BLOW SLOWLY DECREASING PAST SURFACE IN 10 MIN

3RD - STRONG BLOW SLOWLY DECREASING PAST SURFACE IN 10 MIN

Recovered 3600 ft. of fine oil

Recovered 65 ft. of water mud

Recovered _____ ft. of CHLORIDES 34,000 GRAVITY 33 @ 39°

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: COULD NOT GET SLIPS TO HOLD PIPE ON OPENING + CLOSING

Time On Location 10:45 A.M. Time Pick Up Tool _____ A.M.

Time Set Packer(s) 3:20 A.M. Time Started Off Bottom 6:05 A.M.

Initial Hydrostatic Pressure _____ P.S.I. Maximum Temperature _____

Initial Flow Period _____ Minutes (A) 2392 P.S.I.

Initial Closed In Period _____ Minutes (B) 410 P.S.I. to (C) 668 P.S.I.

Final Flow Period _____ Minutes (D) 1413 P.S.I.

Final Closed In Period _____ Minutes (E) 890 P.S.I. to (F) 1344 P.S.I.

Final Hydrostatic Pressure _____ P.S.I. (G) 1402 P.S.I.

Final Hydrostatic Pressure _____ P.S.I. (H) 2275 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By John York
Signature of Customer or his authorized representative

Western Representative Danell Clapham

FIELD INVOICE

Open Hole Test \$ 600.00

Misrun \$ _____

Straddle Test \$ _____

Jars \$ 300.00

Selective Zone \$ _____

Safety Joint \$ _____

Standby \$ _____

Evaluation \$ _____

Extra Packer \$ _____

Circ. Sub. \$ 30.00

Mileage 25 \$ 18.75

Fluid Sampler \$ _____

Extra Charts \$ _____

Insurance \$ _____

TOTAL \$ 948.75

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20 Test Ticket No. 8978
 Recorder No. 10266 Capacity 4650 Location 4647 Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2393</u> P.S.I.	<u>3:20</u> P.M.	
B First Initial Flow Pressure	<u>Plugged</u> P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>678</u> P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
D Initial Closed-in Pressure	<u>1426</u> P.S.I.	<u>45</u> Mins.	<u>35</u> Mins.
E Second Initial Flow Pressure	<u>893</u> P.S.I.	<u>60</u> Mins.	<u>66</u> Mins.
F Second Final Flow Pressure	<u>1370</u> P.S.I.		
G Final Closed-in Pressure	<u>1427</u> P.S.I.		
H Final Hydrostatic Mud	<u>2301</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 22 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 0	<u>Plugged</u>	0	<u>678</u>	0	<u>893</u>	0	<u>1370</u>
P 2 5	<u>584</u>	3	<u>1391</u>	5	<u>923</u>	3	<u>1391</u>
P 3 10	<u>598</u>	6	<u>1402</u>	10	<u>1023</u>	6	<u>1400</u>
P 4 15	<u>678</u>	9	<u>1409</u>	15	<u>1121</u>	9	<u>1407</u>
P 5 20		12	<u>1414</u>	20	<u>1202</u>	12	<u>1409</u>
P 6 25		15	<u>1415</u>	25	<u>1314</u>	15	<u>1414</u>
P 7 30		18	<u>1416</u>	30	<u>1347</u>	18	<u>1416</u>
P 8 35		21	<u>1417</u>	35	<u>1370</u>	21	<u>1418</u>
P 9 40		24	<u>1418</u>	40		24	<u>1419</u>
P 10 45		27	<u>1420</u>	45		27	<u>1420</u>
P 11 50		30	<u>1423</u>	50		30	<u>1421</u>
P 12 55		33	<u>1424</u>	55		33	<u>1421</u>
P 13 60		36	<u>1425</u>	60		36	<u>1422</u>
P 14		39	<u>1425</u>	65		39	<u>1422</u>
P 15		42	<u>1426</u>	70		42	<u>1423</u>
P 16		45		75		45	<u>1423</u>
P 17		48		80		48	<u>1424</u>
P 18		51		85		51	<u>1425</u>
P 19		54		90		54	<u>1426</u>
P 20		57				57	<u>1426</u>
		60				60	<u>1427</u>
						63	<u>1427</u>
						66	<u>1427</u>

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Osage Effective Pay - Ft. Ticket No. 8978
 Date 12-20-80 Sec. 5 Twp. 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 6 Interval Tested from 4646 ft. to 4660 ft. Total Depth 4660 ft.
 Packer Depth 4641 ft. Size 6 3/4 in. Packer Depth 4646 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) 4647 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4651 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Silverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type Drispac Viscosity 52 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 20.2 cc. Drill Pipe Length 4190 I. D. 3.8 in.
 Chlorides 31,000 P.P.M. Test Tool Length 26 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 420 Anchor Length 14 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period strong blow off bottom of bucket immediately. Final flow period strong blow slowly decreasing- gas to surface in 10 minutes- too little to guage.

Recovered 3600 ft. of free oil
 Recovered 65 ft. of watery mud Chlorides 34,000 Gravity 33 @ 39°
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Remarks: Could not get slips to hold pipe on opening & closings.

Time Set Packer(s) 3:20 A.M. P.M. Time Started Off Bottom 6:05 A.M. P.M. Maximum Temperature -
 Initial Hydrostatic Pressure 2393 P.S.I.
 Initial Flow Period 15 Minutes (B) Plugged P.S.I. to (C) 678 P.S.I.
 Initial Closed In Period 42 Minutes (D) 1426 P.S.I.
 Final Flow Period 35 Minutes (E) 893 P.S.I. to (F) 1370 P.S.I.
 Final Closed In Period 66 Minutes (G) 1427 P.S.I.
 Final Hydrostatic Pressure 2301 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12-20-80 Test Ticket No. 8978
 Recorder No. 10266 Capacity 4650 Location 4647 Ft.
 Clock No. - Elevation - Well Temperature - °F

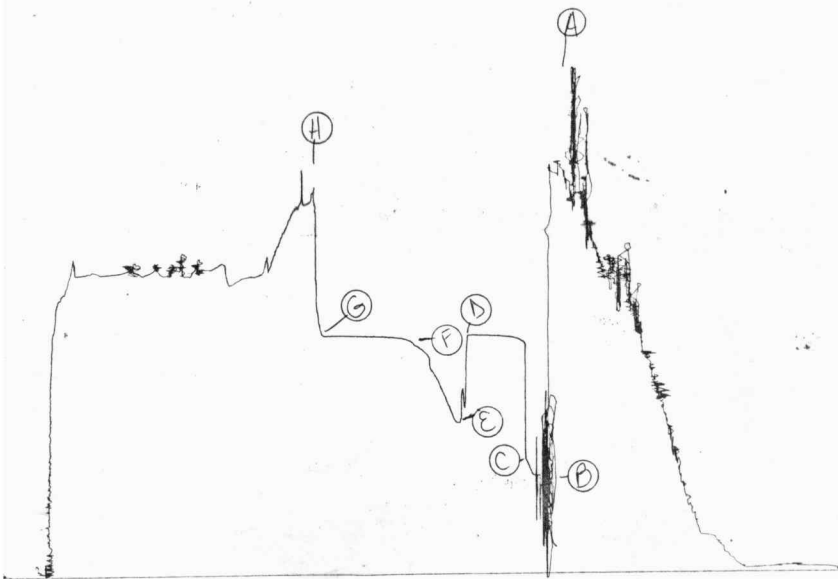
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2393	P.S.I.	3:20P	M
B First Initial Flow Pressure	Plugged	P.S.I.	15	Mins. 15
C First Final Flow Pressure	678	P.S.I.	45	Mins. 42
D Initial Closed-in Pressure	1426	P.S.I.	45	Mins. 35
E Second Initial Flow Pressure	893	P.S.I.	60	Mins. 66
F Second Final Flow Pressure	1370	P.S.I.		
G Final Closed-in Pressure	1427	P.S.I.		
H Final Hydrostatic Mud	2301	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>7</u> Inc.		Breakdown: <u>22</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>Plugged</u>	<u>0</u>	<u>678</u>	<u>0</u>	<u>893</u>	<u>0</u>	<u>1370</u>
P 2 <u>5</u>	<u>584</u>	<u>3</u>	<u>1391</u>	<u>5</u>	<u>923</u>	<u>3</u>	<u>1391</u>
P 3 <u>10</u>	<u>598</u>	<u>6</u>	<u>1402</u>	<u>10</u>	<u>1023</u>	<u>6</u>	<u>1400</u>
P 4 <u>15</u>	<u>678</u>	<u>9</u>	<u>1409</u>	<u>15</u>	<u>1121</u>	<u>9</u>	<u>1407</u>
P 5		<u>12</u>	<u>1414</u>	<u>20</u>	<u>1202</u>	<u>12</u>	<u>1409</u>
P 6		<u>15</u>	<u>1415</u>	<u>25</u>	<u>1314</u>	<u>15</u>	<u>1414</u>
P 7		<u>18</u>	<u>1416</u>	<u>30</u>	<u>1347</u>	<u>18</u>	<u>1416</u>
P 8		<u>21</u>	<u>1417</u>	<u>35</u>	<u>1370</u>	<u>21</u>	<u>1418</u>
P 9		<u>24</u>	<u>1418</u>			<u>24</u>	<u>1419</u>
P10		<u>27</u>	<u>1420</u>			<u>27</u>	<u>1420</u>
P11		<u>30</u>	<u>1423</u>			<u>30</u>	<u>1421</u>
P12		<u>33</u>	<u>1424</u>			<u>33</u>	<u>1421</u>
P13		<u>36</u>	<u>1425</u>			<u>36</u>	<u>1422</u>
P14		<u>39</u>	<u>1425</u>			<u>39</u>	<u>1422</u>
P15		<u>42</u>	<u>1426</u>			<u>42</u>	<u>1423</u>
P16						<u>45</u>	<u>1423</u>
P17						<u>48</u>	<u>1424</u>
P18						<u>51</u>	<u>1425</u>
P19						<u>54</u>	<u>1426</u>
P20						<u>57</u>	<u>1426</u>
						<u>60</u>	<u>1427</u>
						<u>63</u>	<u>1427</u>
						<u>66</u>	<u>1427</u>

TKT # 8978

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10266



WESTERN TESTING CO., INC.
FORMATION TESTING

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation _____ Formation MISSISSIPPI Eff. Pay _____ Ft.

TICKET No 8979

COMPANY NAME

ADDRESS

LEASE AND WELL NO. Season #1 COUNTY Hodgeman STATE Ks Sec. 5 Twp. 24S Rge. 21W

Mail Invoice To #1 Virginia Gleason same as above No. Copies Requested 5
Co. Name Address

Mail Charts To same as above No. Copies Requested 5
Address

Formation Test No. 7 Interval Tested from 4660 ft. to 4670 ft. Total Depth 4670 ft.

Packer Depth 4655 ft. Size 6 3/4 in. Packer Depth 4660 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) 4661 ft.

Bottom Recorder Depth (Outside) 4665 ft.

Below Straddle Recorder Depth _____ ft.

Drilling Contractor Silverado Rig #8

Mud Type DRISPAK Viscosity 55

Weight 8.8 Water Loss 15.4 cc.

Chlorides 30,000 P.P.M.

Jars: Make Bowen Serial Number 420

Did Well Flow? NO Reversed Out NO

Initial flow period

Blow: 1ST - WEAK BUILDING TO STRONG BLOW OFF BOT. OF BUCKET IN 10"

2ND - STRONG BLOW THROUGHOUT final flow period

Recovered 580' ft. of clean gassy oil 38 gravity at 50° API.

Recovered 120' ft. of heavy oil

Recovered 3940' ft. of Gas On Pipe

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time On Location 4:10 A.M. Time Pick Up Tool _____ A.M.

Time Set Packer(s) 7:55 A.M. Time Started Off Bottom 10:40 A.M.

Initial Hydrostatic Pressure _____ (A) 2415 P.S.I. Maximum Temperature 130°

Initial Flow Period _____ Minutes 15 (B) 93 P.S.I. to (C) 117 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 1344 P.S.I.

Final Flow Period _____ Minutes 30 (E) 211 P.S.I. to (F) 234 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 1274 P.S.I.

Final Hydrostatic Pressure _____ (H) 2252 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Phm Gule
Signature of Customer or his authorized representative

Western Representative Danell Chapman

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ 18.75
Mileage 70.25 \$ 52.50
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 952.30
918.75

WESTERN TESTING CO., INC.

Pressure Data

Date 12-21

Test Ticket No. 8979

Recorder No. 10266

Capacity 4650

Location 4661 Ft.

Clock No. _____ Elevation _____

Well Temperature 130 °F

Point	Pressure	
A Initial Hydrostatic Mud	<u>2416</u>	P.S.I.
B First Initial Flow Pressure	<u>117</u>	P.S.I.
C First Final Flow Pressure	<u>141</u>	P.S.I.
D Initial Closed-in Pressure	<u>1371</u>	P.S.I.
E Second Initial Flow Pressure	<u>251</u>	P.S.I.
F Second Final Flow Pressure	<u>272</u>	P.S.I.
G Final Closed-in Pressure	<u>1300</u>	P.S.I.
H Final Hydrostatic Mud	<u>2264</u>	P.S.I.

	Time Given	Time Computed
Open Tool	<u>7:55 P.M.</u>	
First Flow Pressure	<u>15</u> Mins.	<u>10</u> Mins.
Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>117</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>251</u>	<u>0</u>	<u>272</u>
P 2 <u>5</u>	<u>117</u>	<u>3</u>	<u>1100</u>	<u>5</u>	<u>239</u>	<u>3</u>	<u>937</u>
P 3 <u>10</u>	<u>141</u>	<u>6</u>	<u>1156</u>	<u>10</u>	<u>239</u>	<u>6</u>	<u>1016</u>
P 4 <u>15</u>		<u>9</u>	<u>1188</u>	<u>15</u>	<u>246</u>	<u>9</u>	<u>1063</u>
P 5 <u>20</u>		<u>12</u>	<u>1221</u>	<u>20</u>	<u>258</u>	<u>12</u>	<u>1105</u>
P 6 <u>25</u>		<u>15</u>	<u>1247</u>	<u>25</u>	<u>270</u>	<u>15</u>	<u>1135</u>
P 7 <u>30</u>		<u>18</u>	<u>1263</u>	<u>30</u>	<u>272</u>	<u>18</u>	<u>1158</u>
P 8 <u>35</u>		<u>21</u>	<u>1279</u>	<u>35</u>		<u>21</u>	<u>1181</u>
P 9 <u>40</u>		<u>24</u>	<u>1295</u>	<u>40</u>		<u>24</u>	<u>1198</u>
P10 <u>45</u>		<u>27</u>	<u>1309</u>	<u>45</u>		<u>27</u>	<u>1209</u>
P11 <u>50</u>		<u>30</u>	<u>1323</u>	<u>50</u>		<u>30</u>	<u>1223</u>
P12 <u>55</u>		<u>33</u>	<u>1330</u>	<u>55</u>		<u>33</u>	<u>1235</u>
P13 <u>60</u>		<u>36</u>	<u>1337</u>	<u>60</u>		<u>36</u>	<u>1244</u>
P14		<u>39</u>	<u>1344</u>	<u>65</u>		<u>39</u>	<u>1256</u>
P15		<u>42</u>	<u>1351</u>	<u>70</u>		<u>42</u>	<u>1263</u>
P16		<u>45</u>	<u>1356</u>	<u>75</u>		<u>45</u>	<u>1270</u>
P17		<u>48</u>	<u>1362</u>	<u>80</u>		<u>48</u>	<u>1274</u>
P18		<u>51</u>	<u>1365</u>	<u>85</u>		<u>51</u>	<u>1284</u>
P19		<u>54</u>	<u>1367</u>	<u>90</u>		<u>54</u>	<u>1288</u>
P20		<u>57</u>	<u>1370</u>			<u>57</u>	<u>1294</u>
		<u>60</u>	<u>1371</u>			<u>60</u>	<u>1300</u>

Company Pendleton Land & Exploration, Inc. Lease & Well No. #1 Virginia Gleason
 Elevation - Formation Mississippi Effective Pay - Ft. Ticket No. 8979
 Date 12-21-80 Sec. 5 Twp 24S Range 21W County Hodgeman State Kansas
 Test Approved by John Youle Western Representative Darrell Claphan
 Formation Test No. 7 Interval Tested from 4660 ft. to 4670 ft. Total Depth 4670 ft.
 Packer Depth 4655 ft. Size 6 3/4 in. Packer Depth 4660 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) 4661 ft. Recorder Number 10266 Cap. 4650
 Bottom Recorder Depth (Outside) 4665 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Sliverado Rig #8 Drill Collar Length 430 I. D. 2.2 in.
 Mud Type Drispac Viscosity 55 Weight Pipe Length - I. D. - in.
 Weight 8.8 Water Loss 15.4 cc. Drill Pipe Length 4194 I. D. 3.8 in.
 Chlorides 30,000 P.P.M. Test Tool Length 26 ft. Tool Size 4.5 in.
 Jars: Make WTC Serial Number 420 Anchor Length 10 ft. Size 5.5 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 4.5 in.

Blow: Initial flow period weak building to strong blow off bottom of bucket in 10 minutes.
Strong blow throughout final flow period.

Recovered 580 ft. of clean gassy oil - 38 gravity at 50° API
 Recovered 120 ft. of frothy oil
 Recovered 3940 ft. of gas in pipe
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 7:55 ~~A.M.~~ P.M. Time Started Off Bottom 10:40 A.M. P.M. Maximum Temperature 130
 Initial Hydrostatic Pressure 2416 P.S.I. (A)
 Initial Flow Period 10 Minutes (B) 117 P.S.I. to (C) 141 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1371 P.S.I.
 Final Flow Period 30 Minutes (E) 251 P.S.I. to (F) 272 P.S.I.
 Final Closed In Period 60 Minutes (G) 1300 P.S.I.
 Final Hydrostatic Pressure 2264 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 12-21-80

Test Ticket No. 8979

Recorder No. 10266

Capacity 4650

Location 4661 Ft.

Clock No. - Elevation -

Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2416</u>	P.S.I.	<u>7:55P</u>	<u>M</u>
B First Initial Flow Pressure	<u>117</u>	P.S.I.	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>141</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1371</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>251</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>272</u>	P.S.I.		
G Final Closed-in Pressure	<u>1300</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2264</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>117</u>	<u>0</u>	<u>141</u>	<u>0</u>	<u>251</u>	<u>0</u>	<u>272</u>
P 2 <u>5</u>	<u>117</u>	<u>3</u>	<u>1100</u>	<u>5</u>	<u>239</u>	<u>3</u>	<u>937</u>
P 3 <u>10</u>	<u>141</u>	<u>6</u>	<u>1156</u>	<u>10</u>	<u>239</u>	<u>6</u>	<u>1016</u>
P 4		<u>9</u>	<u>1188</u>	<u>15</u>	<u>246</u>	<u>9</u>	<u>1063</u>
P 5		<u>12</u>	<u>1221</u>	<u>20</u>	<u>258</u>	<u>12</u>	<u>1105</u>
P 6		<u>15</u>	<u>1247</u>	<u>25</u>	<u>270</u>	<u>15</u>	<u>1135</u>
P 7		<u>18</u>	<u>1263</u>	<u>30</u>	<u>272</u>	<u>18</u>	<u>1158</u>
P 8		<u>21</u>	<u>1279</u>			<u>21</u>	<u>1181</u>
P 9		<u>24</u>	<u>1295</u>			<u>24</u>	<u>1198</u>
P10		<u>27</u>	<u>1309</u>			<u>27</u>	<u>1209</u>
P11		<u>30</u>	<u>1323</u>			<u>30</u>	<u>1223</u>
P12		<u>33</u>	<u>1330</u>			<u>33</u>	<u>1235</u>
P13		<u>36</u>	<u>1337</u>			<u>36</u>	<u>1244</u>
P14		<u>39</u>	<u>1344</u>			<u>39</u>	<u>1256</u>
P15		<u>42</u>	<u>1351</u>			<u>42</u>	<u>1263</u>
P16		<u>45</u>	<u>1356</u>			<u>45</u>	<u>1270</u>
P17		<u>48</u>	<u>1362</u>			<u>48</u>	<u>1274</u>
P18		<u>51</u>	<u>1365</u>			<u>51</u>	<u>1284</u>
P19		<u>54</u>	<u>1367</u>			<u>54</u>	<u>1288</u>
P20		<u>57</u>	<u>1370</u>			<u>57</u>	<u>1294</u>
WTC - 4		<u>60</u>	<u>1371</u>			<u>60</u>	<u>1300</u>

TKT # 8979
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10266

