

Company Pickrell Drilling Company & Texas Oil & Gas Corporation Lease & Well No. Schrag "L" #1
 Elevation 1575 Kelly Bushing Formation Lansing Effective Pay --- Ft. Ticket No. 3994
 Date 10/21/79 Sec. 1 Twp. 29S Range 7W County Kingman State Kansas
 Test Approved by Mike G. Russell Western Representative Jim Wondra
 Formation Test No. 1 Interval Tested from 3698 ft. to 3730 ft. Total Depth 3730 ft.
 Packer Depth 3693 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 3698 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 3720 ft. Recorder Number 2607 Cap. 4150
 Bottom Recorder Depth (Outside) 3723 ft. Recorder Number 3351 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Drilling Rig #10 Drill Collar Length - I. D. - in.
 Mud Type premix-driscap Viscosity 41 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 12.2 cc. Drill Pipe Length 3680 I. D. 3.8 in.
 Chlorides 16,000 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 OD in.
 Jars: Make -- Serial Number --- 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: Fair blow throughout first flow period. Fair increased to strong blow on second flow period.

Recovered 60 ft. of drilling mud
 Recovered 870 ft. of salt water (64,000 chlorides ppm)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 9:25 ~~A.M.~~ P.M. Time Started Off Bottom 1:25 ~~A.M.~~ P.M. Maximum Temperature 124°
 Initial Hydrostatic Pressure 1809 P.S.I.
 Initial Flow Period 30 Minutes (B) 57 P.S.I. to (C) 159 P.S.I.
 Initial Closed In Period 60 Minutes (D) 1632 P.S.I.
 Final Flow Period 90 Minutes (E) 231 P.S.I. to (F) 460 P.S.I.
 Final Closed In Period 60 Minutes (G) 1620 P.S.I.
 Final Hydrostatic Pressure 1784 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

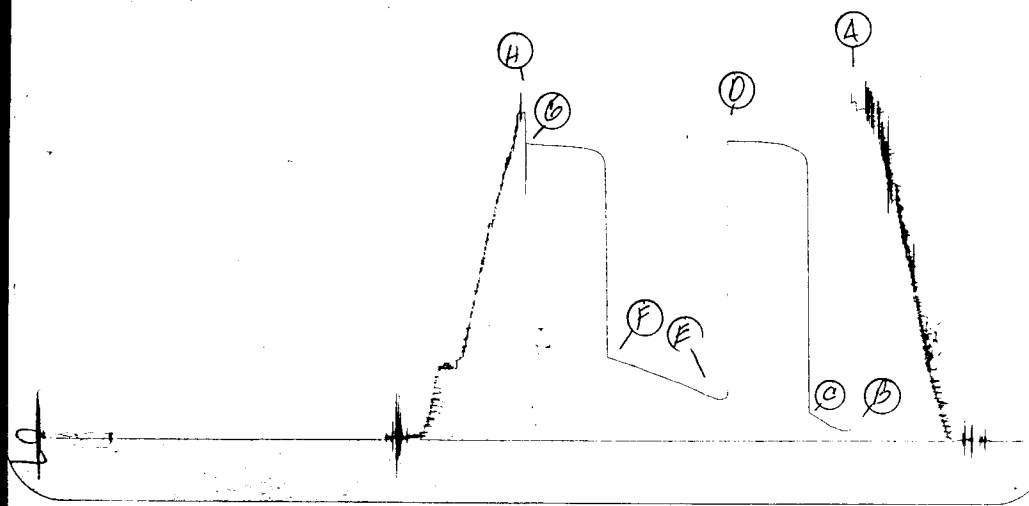
Date 10/21/79 Test Ticket No. 3994
 Recorder No. 2607 Capacity 4150 Location 3720 Ft. 124
 Clock No. -- Elevation 1575 Kelly Bushing Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1809	P.S.I.	9:25P	M
B First Initial Flow Pressure	57	P.S.I.	30	Mins. 30
C First Final Flow Pressure	159	P.S.I.	60	Mins. 60
D Initial Closed-in Pressure	1632	P.S.I.	90	Mins. 90
E Second Initial Flow Pressure	231	P.S.I.	60	Mins. 60
F Second Final Flow Pressure	460	P.S.I.		
G Final Closed-in Pressure	1620	P.S.I.		
H Final Hydrostatic Mud	1784	P.S.I.		

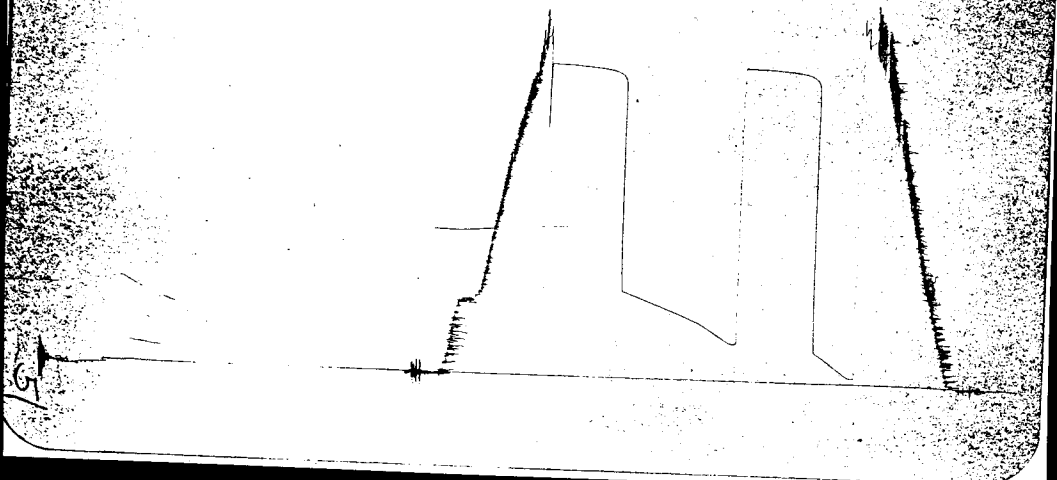
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</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 <u>0</u>	<u>57</u>	<u>0</u>	<u>159</u>	<u>0</u>	<u>231</u>	<u>0</u>	<u>460</u>
P 2 <u>5</u>	<u>57</u>	<u>3</u>	<u>708</u>	<u>5</u>	<u>231</u>	<u>3</u>	<u>1031</u>
P 3 <u>10</u>	<u>68</u>	<u>6</u>	<u>1542</u>	<u>10</u>	<u>241</u>	<u>6</u>	<u>1540</u>
P 4 <u>15</u>	<u>84</u>	<u>9</u>	<u>1569</u>	<u>15</u>	<u>254</u>	<u>9</u>	<u>1565</u>
P 5 <u>20</u>	<u>110</u>	<u>12</u>	<u>1584</u>	<u>20</u>	<u>271</u>	<u>12</u>	<u>1578</u>
P 6 <u>25</u>	<u>133</u>	<u>15</u>	<u>1595</u>	<u>25</u>	<u>288</u>	<u>15</u>	<u>1584</u>
P 7 <u>30</u>	<u>159</u>	<u>18</u>	<u>1605</u>	<u>30</u>	<u>305</u>	<u>18</u>	<u>1588</u>
P 8		<u>21</u>	<u>1613</u>	<u>35</u>	<u>320</u>	<u>21</u>	<u>1592</u>
P 9		<u>24</u>	<u>1618</u>	<u>40</u>	<u>333</u>	<u>24</u>	<u>1597</u>
P10		<u>27</u>	<u>1620</u>	<u>45</u>	<u>345</u>	<u>27</u>	<u>1599</u>
P11		<u>30</u>	<u>1624</u>	<u>50</u>	<u>360</u>	<u>30</u>	<u>1601</u>
P12		<u>33</u>	<u>1626</u>	<u>55</u>	<u>373</u>	<u>33</u>	<u>1603</u>
P13		<u>36</u>	<u>1627</u>	<u>60</u>	<u>386</u>	<u>36</u>	<u>1605</u>
P14		<u>39</u>	<u>1628</u>	<u>65</u>	<u>405</u>	<u>39</u>	<u>1607</u>
P15		<u>42</u>	<u>1629</u>	<u>70</u>	<u>415</u>	<u>42</u>	<u>1608</u>
P16		<u>45</u>	<u>1630</u>	<u>75</u>	<u>426</u>	<u>45</u>	<u>1609</u>
P17		<u>48</u>	<u>1630</u>	<u>80</u>	<u>439</u>	<u>48</u>	<u>1609</u>
P18		<u>51</u>	<u>1630</u>	<u>85</u>	<u>449</u>	<u>51</u>	<u>1610</u>
P19		<u>54</u>	<u>1630</u>	<u>90</u>	<u>460</u>	<u>54</u>	<u>1611</u>
P20		<u>57</u>	<u>1631</u>			<u>57</u>	<u>1612</u>
		<u>60</u>	<u>1632</u>			<u>60</u>	<u>1620</u>

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Company Pickrell Drilling Company & Texas Oil & Gas Corp. Lease & Well No. Schrag "L" #1
 Elevation 1575 Kelly Bushing Formation Mississippi Effective Pay --- Ft. Ticket No. 4013
 Date 10/23/79 Sec. 1 Twp. 29S Range 7W County Kingman State Kansas
 Test Approved by Mike G. Russell Western Representative Dave Sloan
 Formation Test No. 2 Interval Tested from 4047 ft. to 4071 ft. Total Depth 4071 ft.
 Packer Depth 4042 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 4047 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 4063 ft. Recorder Number 5673 Cap 5400
 Bottom Recorder Depth (Outside) 4066 ft. Recorder Number 6246 Cap 5200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -
 Drilling Contractor Pickrell Drilling Company Drill Collar Length - I. D. - in.
 Mud Type drispac Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 16.4 cc. Drill Pipe Length 4027 I. D. 3.8 in.
 Chlorides 17,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.
 Jars: Make -- Serial Number -- Anchor Length 24 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, dying twenty-five minutes on initial flow period. Very weak final flow; dying in ten minutes.

Recovered 10 ft. of slightly gas cut drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 4:15 ~~A.M.~~ P.M. Time Started Off Bottom 5:55 ~~A.M.~~ P.M. Maximum Temperature 125⁰
 Initial Hydrostatic Pressure (A) 2008 P.S.I.
 Initial Flow Period 30 Minutes (B) 14 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period 60 Minutes (D) 68 P.S.I.
 Final Flow Period 10 Minutes (E) 13 P.S.I. to (F) 13 P.S.I.
 Final Closed In Period - Minutes (G) -- P.S.I.
 Final Hydrostatic Pressure (H) 1970 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 10-23-79 Test Ticket No. 4013

Recorder No. 5673 Capacity 5400 Location 4063 Ft.

Clock No. - Elevation 1575 Kelly Bushing Well Temperature 125 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2008 P.S.I.	4:15P.	M
B First Initial Flow Pressure	14 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	14 P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	68 P.S.I.	10 Mins.	10 Mins.
E Second Initial Flow Pressure	13 P.S.I.	-	--
F Second Final Flow Pressure	13 P.S.I.		
G Final Closed-in Pressure	Not taken P.S.I.		
H Final Hydrostatic Mud	1970 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>0</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>	14	<u>0</u>	14	<u>0</u>	13		
P 2 <u>5</u>	14	<u>3</u>	22	<u>5</u>	13		
P 3 <u>10</u>	14	<u>6</u>	27	<u>10</u>	13		
P 4 <u>15</u>	14	<u>9</u>	32				
P 5 <u>20</u>	14	<u>12</u>	35				
P 6 <u>25</u>	14	<u>15</u>	41				
P 7 <u>30</u>	14	<u>18</u>	43				
P 8		<u>21</u>	45				
P 9		<u>24</u>	47				
P10		<u>27</u>	48				
P11		<u>30</u>	49				
P12		<u>33</u>	52				
P13		<u>36</u>	54				
P14		<u>39</u>	56				
P15		<u>42</u>	58				
P16		<u>45</u>	60				
P17		<u>48</u>	62				
P18		<u>51</u>	64				
P19		<u>54</u>	66				
P20		<u>57</u>	67				
		<u>60</u>	68				

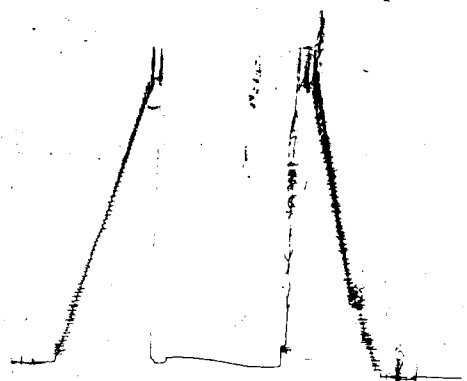
TWL # 4013
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Pickrell DR14 co.
#1 Sheng L.
DST 2



TRK # 4013
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PICKED PRG CO.
#1 SHAG L
DST 2



Company Pickrell Drilling Company & Texas Oil & Gas Corp. Lease & Well No. Schrag "L" #1
Elevation 1575 Kelly Bush. Formation Simpson Effective Pay - Ft. Ticket No. 3828
Date 10-26-79 Sec. 1 Twp. 29S Range 7W County Kingman State Kansas
Test Approved by Mike G. Russell Western Representative Norman Allen

Formation Test No. 3 Interval Tested from 4457 ft. to 4469 ft. Total Depth 4469 ft.

Packer Depth 4457 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) 4462 ft. Recorder Number 1561 Cap. 3200

Bottom Recorder Depth (Outside) 4465 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor Pickrell Drlg. Co. Drill Collar Length - I. D. - in.

Mud Type Drispac Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.5 Water Loss 18.4 cc. Drill Pipe Length 4437 I. D. 3.8 in.

Chlorides 15,000 P.P.M. Test Tool Length 32 ft. Tool Size 4 1/2 OD in.

Jars: Make - Serial Number - Anchor Length 12 ft. Size 4 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 3 1/2 IF in.

Blow: Strong blow diminishing to very weak blow at end of test.

Recovered 3500 ft. of salt water

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 12:30 A.M. ==P.M.== Time Started Off Bottom 5:00 A.M. ==P.M.== Maximum Temperature 144

Initial Hydrostatic Pressure (A) 2277 P.S.I.

Initial Flow Period Minutes 30 (B) 103 P.S.I. to (C) 676 P.S.I.

Initial Closed In Period Minutes 57 (D) 1481 P.S.I.

Final Flow Period Minutes 90 (E) 670 P.S.I. to (F) 1480 P.S.I.

Final Closed In Period Minutes 90 (G) 1483 P.S.I.

Final Hydrostatic Pressure (H) 2224 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Test Ticket No. 3828

Order No. _____ Capacity _____ Location _____
 Well No. _____ Elevation _____ Well Temperature _____

Int	Pressure	Open Tool	Time Given	Time Computed
Initial Hydrostatic Mud	_____ P.S.I.	_____	_____ M	_____
First Initial Flow Pressure	_____ P.S.I.	First Flow Pressure	_____ Mins	_____ Min
First Final Flow Pressure	_____ P.S.I.	Initial Closed-in Pressure	_____ Mins	_____ Min
Initial Closed-in Pressure	_____ P.S.I.	Second Flow Pressure	_____ Mins	_____ Min
Second Initial Flow Pressure	_____ P.S.I.	Final Closed-in Pressure	_____ Mins	_____ Min
Second Final Flow Pressure	_____ P.S.I.			
Final Closed-in Pressure	_____ P.S.I.			
Final Hydrostatic Mud	_____ P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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 Inches	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1		63				63	1483
2		66				66	
3		69				69	
4		72				72	
5		75				75	
6		78				78	
7		81				81	
8		84				84	
9		87				87	
10		90				90	1483
11		93				93	
12		96				96	
13		99				99	
14		102				102	
15		105				105	
16		108				108	
17		111				111	
18		114				114	
19		117				117	
20		120				120	

WESTERN TESTING CO., INC.

Pressure Data

Date 10-26-79 Recorder No. 1561 Capacity 3200 Location 4462 Ft.
 Clock No. - Elevation 1575 Kelly Bushing Well Temperature 144 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2277</u> P.S.I.	Open Tool	<u>12:30A.</u> M	
B First Initial Flow Pressure	<u>103</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>676</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1481</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>670</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1480</u> P.S.I.			
G Final Closed-in Pressure	<u>1483</u> P.S.I.			
H Final Hydrostatic Mud	<u>2224</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a 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>103</u>	<u>0</u>	<u>676</u>	<u>0</u>	<u>670</u>	<u>0</u>	<u>1480</u>
P 2 <u>5</u>	<u>205</u>	<u>3</u>	<u>1476</u>	<u>5</u>	<u>782</u>	<u>3</u>	<u>1482</u>
P 3 <u>10</u>	<u>230</u>	<u>6</u>	<u>1479</u>	<u>10</u>	<u>865</u>	<u>6</u>	<u>1482</u>
P 4 <u>15</u>	<u>439</u>	<u>9</u>	<u>1480</u>	<u>15</u>	<u>942</u>	<u>9</u>	<u>1483</u>
P 5 <u>20</u>	<u>539</u>	<u>12</u>	<u>1481</u>	<u>20</u>	<u>1020</u>	<u>12</u>	<u>1483</u>
P 6 <u>25</u>	<u>641</u>	<u>15</u>	<u>1481</u>	<u>25</u>	<u>1082</u>	<u>15</u>	<u>1483</u>
P 7 <u>30</u>	<u>676</u>	<u>18</u>	<u>1481</u>	<u>30</u>	<u>1147</u>	<u>18</u>	<u>1483</u>
P 8		<u>21</u>	<u>1481</u>	<u>35</u>	<u>1200</u>	<u>21</u>	<u>1483</u>
P 9		<u>24</u>	<u>1481</u>	<u>40</u>	<u>1250</u>	<u>24</u>	<u>1483</u>
P10		<u>27</u>	<u>1481</u>	<u>45</u>	<u>1289</u>	<u>27</u>	<u>1483</u>
P11		<u>30</u>	<u>1481</u>	<u>50</u>	<u>1332</u>	<u>30</u>	<u>1483</u>
P12		<u>33</u>	<u>1481</u>	<u>55</u>	<u>1367</u>	<u>33</u>	<u>1483</u>
P13		<u>36</u>	<u>1481</u>	<u>60</u>	<u>1395</u>	<u>36</u>	<u>1483</u>
P14		<u>39</u>	<u>1481</u>	<u>65</u>	<u>1420</u>	<u>39</u>	<u>1483</u>
P15		<u>42</u>	<u>1481</u>	<u>70</u>	<u>1439</u>	<u>42</u>	<u>1483</u>
P16		<u>45</u>	<u>1481</u>	<u>75</u>	<u>1456</u>	<u>45</u>	<u>1483</u>
P17		<u>48</u>	<u>1481</u>	<u>80</u>	<u>1467</u>	<u>48</u>	<u>1483</u>
P18		<u>51</u>	<u>1481</u>	<u>85</u>	<u>1476</u>	<u>51</u>	<u>1483</u>
P19		<u>54</u>	<u>1481</u>	<u>90</u>	<u>1480</u>	<u>54</u>	<u>1483</u>
P20		<u>57</u>	<u>1481</u>			<u>57</u>	<u>1483</u>
						<u>60</u>	<u>1483</u>

WESTERN TESTING CO., INC.
Pressure Data

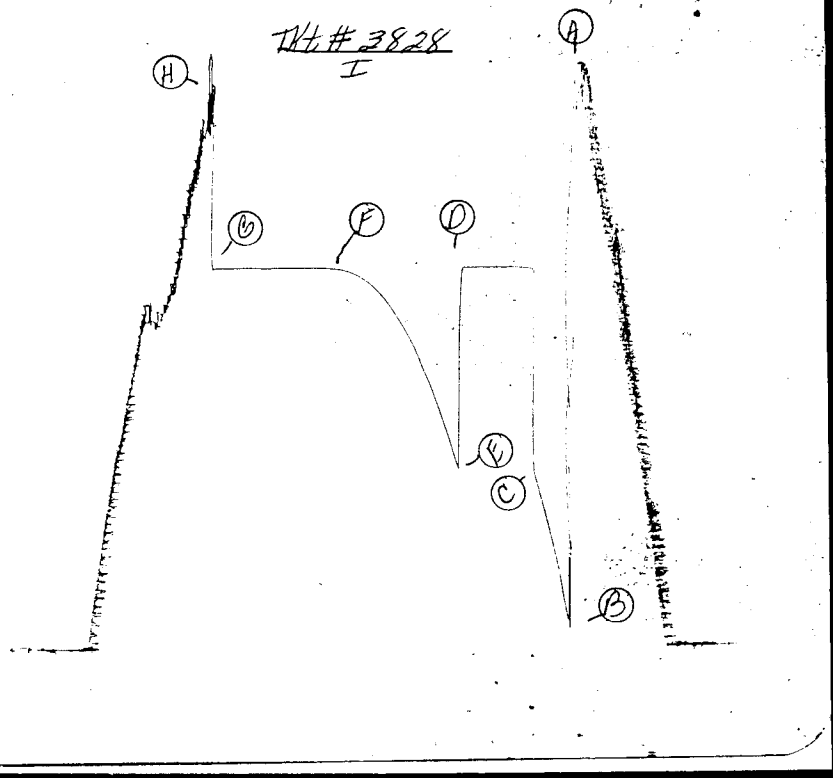
Date 10-26-79 Test Ticket No. 3828
Recorder No. 1561 Capacity 3200 Location 4462 Ft.
Clock No. - Elevation 1575 Kelly Bushing Well Temperature 144 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2277</u> P.S.I.	Open Tool	<u>12:30A.</u> M	
B First Initial Flow Pressure	<u>103</u> P.S.I.	• First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>676</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>57</u> Mins.
D Initial Closed-in Pressure	<u>1481</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>670</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1480</u> P.S.I.			
G Final Closed-in Pressure	<u>1483</u> P.S.I.			
H Final Hydrostatic Mud	<u>2224</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>19</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						<u>63</u>	<u>1483</u>
P 2						<u>66</u>	<u>1483</u>
P 3						<u>69</u>	<u>1483</u>
P 4						<u>72</u>	<u>1483</u>
P 5						<u>75</u>	<u>1483</u>
P 6						<u>78</u>	<u>1483</u>
P 7						<u>81</u>	<u>1483</u>
P 8						<u>84</u>	<u>1483</u>
P 9						<u>87</u>	<u>1483</u>
P10						<u>90</u>	<u>1483</u>
P11							
P12							
P13							
P14							
P15							
P16							
P17							
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