



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 4392

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 838-0601

Elevation 2077 KB Formation Viola Eff. Pay Ft.

District Pratt Date 1-7-79 Customer Order No. Davis

COMPANY NAME Production Inc of L.D. Drilling Co

ADDRESS Box 324 GT Bend, Kansas 67531

LEASE AND WELL NO Feick #1 OK COUNTY Pawnee STATE KANSAS Sec. 13-Twp 23S-Rge 17W0

Mail Invoice To Same Co. Name Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 4182 ft. to 4206 ft. Total Depth 4206 ft. Packer Depth 4177 ft. Size 6 3/4 in. Packer Depth 4182 ft. Size 6 3/4 in.

Top Recorder Depth (Inside) 4186 ft. Recorder Number 2606 Cap. 4150 Bottom Recorder Depth (Outside) 4189 ft. Recorder Number 6074 Cap. 5100 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor L.D. Drilling Co Mud Type Starch Viscosity 43 Weight 9.9 Water Loss 9.4 cc. Chlorides 26,000 P.P.M. Jars: Make WTC Serial Number 408 Did Well Flow? NO Reversed Out NO Drill Collar Length - I. D. - in. Weight Pipe Length 567 I. D. 2 1/2 in. Drill Pipe Length 3587 I. D. 3.8 in. Test Tool Length 28 ft. Tool Size 5/200 in. Anchor Length 24 ft. Size 5/200 in. Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FN in.

Blow: Strong blow decreasing to weak blow on initial flow fair blow building to strong blow 20 minutes on final no gas to surface

Recovered 70 ft. of drilling mud Recovered - ft. of Recovered - ft. of Recovered - ft. of Recovered - ft. of

Remarks: slid tool 4 ft to bottom

Table with 4 columns: Time Set, Packer(s), A.M./P.M., Time Started Off Bottom, A.M./P.M., Maximum Temperature. Rows include Initial Hydrostatic Pressure, Initial Flow Period, Initial Closed In Period, Final Flow Period, Final Closed In Period, Final Hydrostatic Pressure.

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 Daniel P. Wilbur Signature of Customer or his authorized representative

Western Representative Koch Litt Shankye

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts.

TOTAL \$ 810.00

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 1-9-80 Test Ticket No. 4392  
 Recorder No. 2606 Capacity 4150 Location 4186 Ft.  
 Clock No. \_\_\_\_\_ Elevation 2077 KB Well Temperature 117 °F

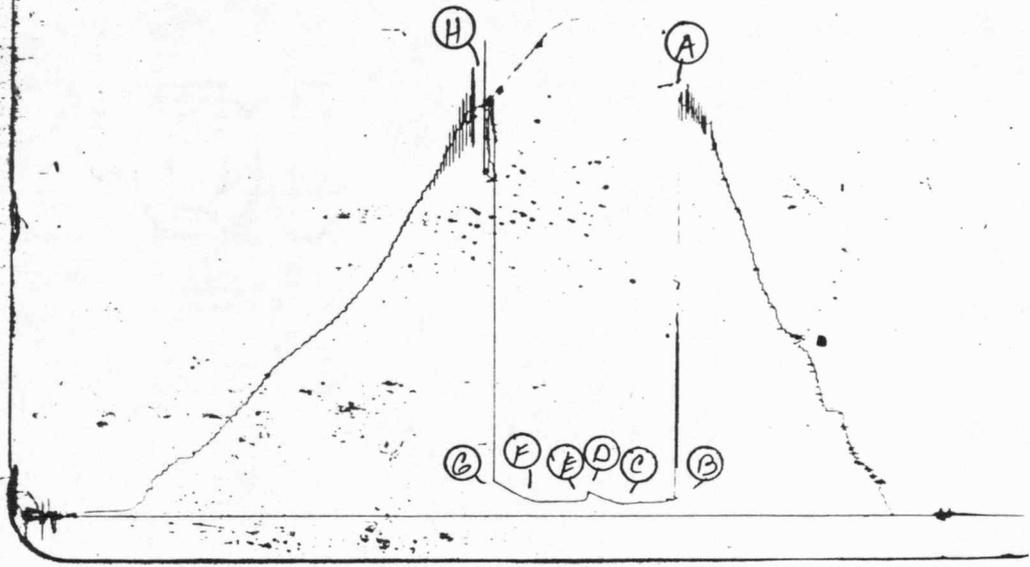
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2250</u> P.S.I.	Open Tool	<u>5:40</u> A M	
B First Initial Flow Pressure	<u>83</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>67</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>129</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>83</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
F Second Final Flow Pressure	<u>78</u> P.S.I.			
G Final Closed-in Pressure	<u>189</u> P.S.I.			
H Final Hydrostatic Mud	<u>2209</u> P.S.I.			

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>12</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>83</u>	0	<u>67</u>	0	<u>83</u>	0	<u>78</u>
P 2	<u>77</u>	3	<u>67</u>	5	<u>78</u>	3	<u>78</u>
P 3	<u>73</u>	6	<u>67</u>	10		6	<u>81</u>
P 4	<u>73</u>	9	<u>71</u>	15		9	<u>89</u>
P 5	<u>71</u>	12	<u>75</u>	20		12	<u>98</u>
P 6	<u>69</u>	15	<u>83</u>	25		15	<u>104</u>
P 7	<u>67</u>	18	<u>89</u>	30	<u>78</u>	18	<u>116</u>
P 8	<u>6</u>	21	<u>98</u>	35		21	<u>127</u>
P 9		24	<u>108</u>	40		24	<u>138</u>
P10		27	<u>119</u>	45		27	<u>154</u>
P11		30	<u>129</u>	50		30	<u>165</u>
P12		33		55		33	<u>177</u>
P13		36		60		36	<u>189</u>
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
		60				60	

TKT #4392

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Company Production, Inc. % L.D. Davis Lease & Well No. Frick #1  
 Elevation 2077 Kelly Bushing Formation Viola Effective Pay ----- Ft. Ticket No. 4392  
 Date 1/7/80 Sec. 13 Twp. 23S Range 17W County Pawnee State Kansas  
 Test Approved by David P. Williams Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4182 ft. to 4206 ft. Total Depth 4206 ft.  
 Packer Depth 4177 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Packer Depth 4182 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set --  
 Top Recorder Depth (Inside) 4186 ft. Recorder Number 2606 Cap. 4150  
 Bottom Recorder Depth (Outside) 4189 ft. Recorder Number 6074 Cap. 5100  
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor L. & D. Drilling Company Drill Collar Length -- I. D. -- in.  
 Mud Type starch Viscosity 43 Weight Pipe Length 567 I. D. 2 1/2 in.  
 Weight 9.9 Water Loss 9.6 cc. Drill Pipe Length 3587 I. D. 3.8 in.  
 Chlorides 76,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.  
 Jars: Make WTC Serial Number 408 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: Strong blow decreasing to weak blow on initial flow period. Fair blow building to strong blow twenty minutes on final flow. No gas to surface.

Recovered 70 ft. of drilling mud  
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of         
 Recovered        ft. of       

Remarks: Slid tool four feet to bottom.

Time Set Packer(s) 5:40 <sup>A.M.</sup>/<sub>=P.M.=</sub> Time Started Off Bottom 7:40 <sup>A.M.</sup>/<sub>=P.M.=</sub> Maximum Temperature 117°  
 Initial Hydrostatic Pressure        (A) 2250 P.S.I.  
 Initial Flow Period        Minutes 30 (B) 83 P.S.I. to (C) 67 P.S.I.  
 Initial Closed In Period        Minutes 30 (D) 129 P.S.I.  
 Final Flow Period        Minutes 30 (E) 83 P.S.I. to (F) 78 P.S.I.  
 Final Closed In Period        Minutes 36 (G) 189 P.S.I.  
 Final Hydrostatic Pressure        (H) 2209 P.S.I.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 1/7/80 Test Ticket No. 4392  
 Recorder No. 2606 Capacity 4150 Location 4186 Ft.  
 Clock No. ----- Elevation 2077 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2250	P.S.I.	5:40A	M
B First Initial Flow Pressure	83	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	67	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	129	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	83	P.S.I.	30	Mins. 36 Mins.
F Second Final Flow Pressure	78	P.S.I.		
G Final Closed-in Pressure	189	P.S.I.		
H Final Hydrostatic Mud	2209	P.S.I.		

**PRESSURE BREAKDOWN**

<b>First Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Initial Shut-In</b> Breakdown: <u>10</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	<b>Second Flow Pressure</b> Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	<b>Final Shut-In</b> Breakdown: <u>12</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	0	83	0	67	0	83	0	78
P 2	5	77	3	67	5	78	3	78
P 3	10	73	6	67	10	78	6	81
P 4	15	73	9	71	15	78	9	89
P 5	20	71	12	75	20	78	12	98
P 6	25	69	15	83	25	78	15	104
P 7	30	67	18	89	30	78	18	116
P 8			21	98			21	127
P 9			24	108			24	138
P10			27	119			27	154
P11			30	129			30	165
P12							33	177
P13							36	189
P14								
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P16								
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P19								
P20								