



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 13517

OK

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

Elevation 2361 K.B Formation MORROW Eff. Pay Ft.

District Dodge City Date 3/10/82 Customer Order No.

COMPANY NAME Pickrell Drilling Company

ADDRESS 205 Litwin Building Wichita Ks 67202

LEASE AND WELL NO. Giles B-7 COUNTY CLARK STATE KS Sec. 25 Twp 30S Rge 22W

Mail Invoice To #7 "B" Giles SAME No. Copies Requested 5

Co. Name SAME Address No. Copies Requested 5

Formation Test No. 1 Interval Tested from 5294 ft. to 5335 ft. Total Depth 5335 ft.

Packer Depth 5289 ft. Size 6 7/8 in. Packer Depth 5294 ft. Size 6 5/8 in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 5296 ft. Recorder Number 10980 Cap. 4200

Bottom Recorder Depth (Outside) 5300 ft. Recorder Number 6233 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Co Tools Rig #1 Drill Collar Length 242 I. D. 2.2 in.

Mud Type Chem Viscosity 40 Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 15.6 cc. Drill Pipe Length 5023 I. D. 3.8 in.

Chlorides 23,000 P.P.M. Test Tool Length 29' ft. Tool Size 4.5 in.

Jars: Make Brown WTC Serial Number 421 Anchor Length 41' 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.

Blowdown WEAK BLOW SLOWLY BUILDING 1/4" TO 1/2"

WEAK BLOW SLOWLY BUILDING

Recovered 75' ft. of WM Chlorides 87,000

Recovered 240' ft. of Water

Recovered ft. of

Recovered 315' ft. of TOTAL

Recovered ft. of

Remarks: HIT SEVERAL BEDDING GOING IN SLEW 10' TO BOTTOM

Time On Location 2:00 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location A.M.

Time Set Packer(s) 5:40 P.M. Time Started Off Bottom 10:10 A.M. Maximum Temperature 129° P.M.

Initial Hydrostatic Pressure (A) 2822 P.S.I.

Initial Flow Period Minutes 30 (B) 96 P.S.I. to (C) 118 P.S.I.

Initial Closed In Period Minutes 60 (D) 1561 P.S.I.

Final Flow Period Minutes 90 (E) 193 P.S.I. to (F) 225 P.S.I.

Final Closed In Period Minutes 90 (G) 1561 P.S.I.

Final Hydrostatic Pressure (H) 2780 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 Thomas Funk Signature of Customer or his authorized representative

Western Representative Daniel Clapham

RECEIVED MAR 12 1982 Thank you

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$775), Misrun (\$), Straddle Test (\$), Jars (\$300), Selective Zone (\$65), Safety Joint (\$), Standby (\$), Evaluation (\$), Extra Packer (\$), Circ. Sub. (\$), Mileage 43 (\$32.25), Fluid Sampler (\$), Extra Charts (\$), Insurance (\$), TOTAL (\$1172.25)

WESTERN TESTING CO., INC.
Pressure Data

Date: 3/10/82 Test Ticket No. 13517
 Recorder No. 10980 Capacity 4200 Location 5296 Ft
 Clock No. --- Elevation 2361 KB Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2833</u>	P.S.I.	<u>5:40 A</u>	M
B First Initial Flow Pressure	<u>97</u>	P.S.I.	<u>30</u>	Mins. <u>25</u> Mins
C First Final Flow Pressure	<u>122</u>	P.S.I.	<u>60</u>	Mins. <u>51</u> Mins
D Initial Closed-in Pressure	<u>1578</u>	P.S.I.	<u>90</u>	Mins. <u>80</u> Mins
E Second Initial Flow Pressure	<u>194</u>	P.S.I.	<u>90</u>	Mins. <u>81</u> Mins
F Second Final Flow Pressure	<u>238</u>	P.S.I.		
G Final Closed-in Pressure	<u>1579</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2785</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Initial Shut-In Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.		Second Flow Pressure Breakdown: <u>16</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.		Final Shut-In Breakdown: <u>27</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>97</u>	0	<u>122</u>	0	<u>194</u>	0	<u>238</u>
P 2	<u>97</u>	3	<u>1244</u>	5		3	<u>1128</u>
P 3	<u>99</u>	6	<u>1447</u>	10		6	<u>1429</u>
P 4	<u>105</u>	9	<u>1502</u>	15		9	<u>1487</u>
P 5	<u>112</u>	12	<u>1528</u>	20	<u>194</u>	12	<u>1515</u>
P 6	<u>122</u>	15	<u>1545</u>	25	<u>197</u>	15	<u>1530</u>
P 7		18	<u>1553</u>	30	<u>201</u>	18	<u>1543</u>
P 8		21	<u>1562</u>	35	<u>206</u>	21	<u>1551</u>
P 9		24	<u>1567</u>	40	<u>210</u>	24	<u>1555</u>
P10		27	<u>1569</u>	45	<u>215</u>	27	<u>1560</u>
P11		30	<u>1571</u>	50	<u>217</u>	30	<u>1563</u>
P12		33	<u>1573</u>	55	<u>218</u>	33	<u>1565</u>
P13		36	<u>1575</u>	60	<u>219</u>	36	<u>1567</u>
P14		39	<u>1576</u>	65	<u>223</u>	39	<u>1568</u>
P15		42	<u>1577</u>	70	<u>227</u>	42	<u>1569</u>
P16		45	<u>1578</u>	75	<u>234</u>	45	<u>1570</u>
P17		48	<u>1578</u>	80	<u>238</u>	48	<u>1571</u>
P18		51	<u>1578</u>	85		51	<u>1572</u>
P19		54		90		54	<u>1573</u>
P20		57				57	<u>1574</u>
		60				60	<u>1575</u>

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WESTERN TESTING CO., INC.
Pressure Data

Date _____ Test Ticket No. _____
 Recorder No. _____ Capacity _____ Location _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I.	Open Tool _____	M _____	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	Mins. _____	Mins. _____
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud _____	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.							
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 _____	_____	63 _____	_____	_____	_____	63 _____	1576
P 2 _____	_____	66 _____	_____	_____	_____	66 _____	1577
P 3 _____	_____	69 _____	_____	_____	_____	69 _____	1578
P 4 _____	_____	72 _____	_____	_____	_____	72 _____	1579
P 5 _____	_____	75 _____	_____	_____	_____	75 _____	1579
P 6 _____	_____	78 _____	_____	_____	_____	78 _____	1579
P 7 _____	_____	81 _____	_____	_____	_____	81 _____	1579
P 8 _____	_____	84 _____	_____	_____	_____	84 _____	_____
P 9 _____	_____	87 _____	_____	_____	_____	87 _____	_____
P10 _____	_____	90 _____	_____	_____	_____	90 _____	_____
P11 _____	_____	93 _____	_____	_____	_____	93 _____	_____
P12 _____	_____	96 _____	_____	_____	_____	96 _____	_____
P13 _____	_____	99 _____	_____	_____	_____	99 _____	_____
P14 _____	_____	102 _____	_____	_____	_____	102 _____	_____
P15 _____	_____	105 _____	_____	_____	_____	105 _____	_____
P16 _____	_____	108 _____	_____	_____	_____	108 _____	_____
P17 _____	_____	111 _____	_____	_____	_____	111 _____	_____
P18 _____	_____	114 _____	_____	_____	_____	114 _____	_____
P19 _____	_____	117 _____	_____	_____	_____	117 _____	_____
P20 _____	_____	120 _____	_____	_____	_____	120 _____	_____

Company Pickrell Drilling Company Lease & Well No. #7 "B" Giles
 Elevation 2361 Kelly Bushing Formation Morrow Effective Pay - Ft. Ticket No. 13517
 Date 3/10/82 Sec. 25 Twp. 30S Range 22W County Clark State Kansas
 Test Approved by Thomas Funk Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 5294 ft. to 5335 ft. Total Depth 5335 ft.
 Packer Depth 5289 ft. Size 6 7/8 in. Packer Depth 5294 ft. Size 6 5/8 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5296 ft. Recorder Number 10980 Cap. 4200
 Bottom Recorder Depth (Outside) 5300 ft. Recorder Number 6233 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Pickrell Drilling Rig #1 Drill Collar Length 242 I. D. 2.2 in.
 Mud Type chemical Viscosity 40 Weight Pipe Length - I. D. - in.
 Weight 9.3 Water Loss 15.6 cc. Drill Pipe Length 5023 I. D. 3.8 in.
 Chlorides 23,000 P.P.M. Test Tool Length 29 ft. Tool Size 4.5 in.
 Jars: Make WIC Serial Number 421 Anchor Length 41 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 one fourth inch to one and one half inches.
Final flow period weak blow slowly building.

Recovered 75 ft. of watery mud
 Recovered 240 ft. of water Chlorides 87,000 ppm
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: Hit several bridges going in; slid ten feet to bottom.

Time Set Packer(s) 5:40 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 10:10 ~~P.M.~~ ^{A.M.} Maximum Temperature 129°
 Initial Hydrostatic Pressure (A) 2833 P.S.I.
 Initial Flow Period Minutes 25 (B) 97 P.S.I. to (C) 122 P.S.I.
 Initial Closed In Period Minutes 51 (D) 1578 P.S.I.
 Final Flow Period Minutes 80 (E) 194 P.S.I. to (F) 238 P.S.I.
 Final Closed In Period Minutes 81 (G) 1579 P.S.I.
 Final Hydrostatic Pressure (H) 2785 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 3/10/82 Test Ticket No. 13517
 Recorder No. 10980 Capacity 4200 Location 5296 Ft.
 Clock No. -- Elevation 2361 Kelly Bushing Well Temperature 129 °F

Point	Pressure		Time Given 5:40A	Time Computed
A Initial Hydrostatic Mud	2833	P.S.I.		
B First Initial Flow Pressure	97	P.S.I.	30	25
C First Final Flow Pressure	122	P.S.I.	60	51
D Initial Closed-in Pressure	1578	P.S.I.	90	80
E Second Initial Flow Pressure	194	P.S.I.	90	81
F Second Final Flow Pressure	238	P.S.I.		
G Final Closed-in Pressure	1579	P.S.I.		
H Final Hydrostatic Mud	2785	P.S.I.		

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 17 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 16 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 27 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	97	0	122	0	194	0	238
P 2 5	97	3	1244	5	194	3	1128
P 3 10	99	6	1447	10	194	6	1429
P 4 15	105	9	1502	15	194	9	1487
P 5 20	112	12	1528	20	194	12	1515
P 6 25	122	15	1545	25	197	15	1530
P 7		18	1553	30	201	18	1543
P 8		21	1562	35	206	21	1551
P 9		24	1567	40	210	24	1555
P10		27	1569	45	215	27	1560
P11		30	1571	50	217	30	1563
P12		33	1573	55	218	33	1565
P13		36	1575	60	219	36	1567
P14		39	1576	65	223	39	1568
P15		42	1577	70	227	42	1569
P16		45	1578	75	234	45	1570
P17		48	1578	80	238	48	1571
P18		51	1578			51	1572
P19						54	1573
P20						57	1574
						60	1575

WESTERN TESTING CO., INC.
Pressure Data

Date 3/10/82 Recorder No. 10980 Capacity 4200 Test Ticket No. 13517
 Location 5296 Ft. 129
 Clock No. -- Elevation 2361 Kelly Bushing Well Temperature 129 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2833	P.S.I.	5:40A	M
B First Initial Flow Pressure	97	P.S.I.	30	25
C First Final Flow Pressure	122	P.S.I.	60	51
D Initial Closed-in Pressure	1578	P.S.I.	90	80
E Second Initial Flow Pressure	194	P.S.I.	90	81
F Second Final Flow Pressure	238	P.S.I.		
G Final Closed-in Pressure	1579	P.S.I.		
H Final Hydrostatic Mud	2785	P.S.I.		

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In	
	Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>17</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>16</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>27</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1				63	1576
P 2				66	1577
P 3				69	1578
P 4				72	1579
P 5				75	1579
P 6				78	1579
P 7				81	1579
P 8					
P 9					
P10					
P11					
P12					
P13					
P14					
P15					
P16					
P17					
P18					
P19					
P20					

3/4 # 13517

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