



WESTERN TESTING CO., INC.

FORMATION TESTING

Lally Bushing

TICKET NO: 6582

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

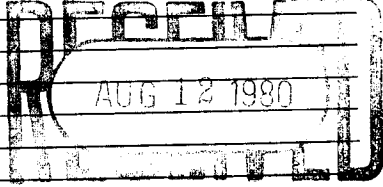
Elevation 2341 KB Formation INOLA Eff. Pay _____ Ft.

District PRATT Date 8-10-80 Customer Order No. _____
 COMPANY NAME Pickrell Drilling Company
 ADDRESS Wichita Building Suite 205-110 N. Market Wichita 67202
 LEASE AND WELL NO. 4 Shattuck A COUNTY CLARK STATE KANSAS Sec. 30 Twp. 30 Rge. 2/E
 Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested Reg
 Mail Charts To Same Co. Name _____ Address _____ No. Copies Requested Reg

Formation Test No. 1 Interval Tested from 5194 ft. to 5270 ft. Total Depth 5270 ft.
 Packer Depth 5189 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 5194 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____
 Top Recorder Depth (Inside) 5198 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5201 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____
 Drilling Contractor Company Tools Drill Collar Length 240 I. D. 2 1/4 in.
 Mud Type Dev. One Viscosity 44 Weight Pipe Length _____ I. D. _____ in.
 Weight 9.2 Water Loss 14.2 cc. Drill Pipe Length 4925 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
 Jars: Make WTC Serial Number 411 Anchor Length 277 D (R) Size 5 1/2 x 6
 Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very weak blow - died in top min on initial flow
NO blow on initial flow - flushed tool - NO blow

Recovered 45 ft. of drilling mud (oil spotted)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Remarks: 4332 recorder clock stopped



On loc 2:00 AM Tool up 3:00 laid down tool 8:15 AM Stand by _____
 Time Set Packer(s) 5:00 A.M. P.M. Time Started Off Bottom 6:20 A.M. P.M. Maximum Temperature 130°F
 Initial Hydrostatic Pressure _____ (A) 2607 P.S.I.
 Initial Flow Period _____ Minutes 30 (B) 104 P.S.I. to (C) 72 P.S.I.
 Initial Closed In Period _____ Minutes 30 (D) 83 P.S.I.
 Final Flow Period _____ Minutes 10-10 (E) 72 P.S.I. to (F) 72 P.S.I.
 Final Closed In Period _____ Minutes _____ (G) _____ P.S.I.
 Final Hydrostatic Pressure _____ (H) 2607 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 Jay McNeil Signature of Customer or his authorized representative

Western Representative Local Dist Thank you

FIELD INVOICE

Open Hole Test \$650.00
 Misrun \$ _____
 Straddle Test \$ _____
 Jars \$300.00
 Selective Zone \$ _____
 Safety Joint \$50.00
 Standby \$ _____
 Evaluation \$ _____
 Extra Packer \$ _____
 Circ. Sub. \$ _____
 Mileage 75 miles \$75.00
 Fluid Sampler \$ _____
 Extra Charts \$ _____
 TOTAL \$1056.25

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-80 Test Ticket No. 6582
 Recorder No. 2606 Capacity 4150 Location 5198 Ft.
 Clock No. _____ Elevation 2341 XB Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2607</u> P.S.I.	Open Tool	<u>5:00</u> A M	
B First Initial Flow Pressure	60 <u>67</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	62 <u>67</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>21</u> Mins.
D Initial Closed-in Pressure	<u>73</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>67</u> P.S.I.	Final Closed-in Pressure	_____ Mins.	_____ Mins.
F Second Final Flow Pressure	<u>108</u> P.S.I.			
G Final Closed-in Pressure	_____ P.S.I.			
H Final Hydrostatic Mud	<u>2602</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>7</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>4</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: _____ 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	<u>67</u>	0	60 <u>67</u>	0	<u>67</u>	0	
P 2 5		3	<u>67</u>	5	<u>67</u>	3	
P 3 10		6		10	<u>67</u>	6	
P 4 15		9		15	<u>108</u>	9	
P 5 20		12		20	<u>108</u>	12	
P 6 25		15	<u>67</u>	25		15	
P 7 30	<u>67</u>	18	<u>71</u>	30		18	
P 8 35		21	<u>73</u>	35		21	
P 9 40		24		40		24	
P 10 45		27		45		27	
P 11 50		30		50		30	
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

Company Pickrell Drilling Company Lease & Well No. Shattuck "A" #4
 Elevation 2341 Kelly Bushing Formation Inola Effective Pay ---- Ft. Ticket No. 6582
 Date 8/10/80 Sec. 30 Twp. 30S Range 21W County Clark State Kansas
 Test Approved by Jay C. McNeil Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 5194 ft. to 5270 ft. Total Depth 5270 ft.
 Packer Depth 5189 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5194 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5198 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5201 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickell Drilling Drill Collar Length 240 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 44 Weight Pipe Length - I. D. - in.
 Weight 9.2 Water Loss 14.2 cc. Drill Pipe Length 4925 I. D. 3.8 in.
 Chlorides 28,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 411 Anchor Length 27' + DC(76') ft. Size 5 1/2 & 6" in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Very weak blow; died in ten minutes on initial flow period. No blow on final flow period. Flushed tool, no blow.

Recovered 45 ft. of drilling mud (oil spotted)
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:00 ~~P.M.~~ A.M. Time Started Off Bottom 6:20 ~~P.M.~~ A.M. Maximum Temperature 130°
 Initial Hydrostatic Pressure 2607 P.S.I. (A)
 Initial Flow Period 30 Minutes (B) 67 P.S.I. to (C) 67 P.S.I.
 Initial Closed In Period 21 Minutes (D) 73 P.S.I.
 Final Flow Period 20 Minutes (E) 67 P.S.I. to (F) 108 P.S.I.
 Final Closed In Period -- Minutes (G) -- P.S.I.
 Final Hydrostatic Pressure 2602 P.S.I. (H)

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-80

Recorder No. 2606

Test Ticket No. 6582

Capacity 4150

Location 5198 Ft.

Clock No. ----- Elevation 2341 Kelly Bushing

Well Temperature 130 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2607</u> P.S.I.	Open Tool	<u>5:00</u> A. M.	
B First Initial Flow Pressure	<u>67</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>21</u> Mins.
D Initial Closed-in Pressure	<u>73</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	<u>67</u> P.S.I.	Final Closed-in Pressure	<u>--</u> Mins.	<u>--</u> Mins.
F Second Final Flow Pressure	<u>108</u> P.S.I.			
G Final Closed-in Pressure	<u>---</u> P.S.I.			
H Final Hydrostatic Mud	<u>2602</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 7 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 4 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: -- 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 <u>0</u>	<u>67</u>	<u>0</u>	<u>67</u>	<u>0</u>	<u>67</u>		
P 2 <u>5</u>	<u>67</u>	<u>3</u>	<u>67</u>	<u>5</u>	<u>67</u>		
P 3 <u>10</u>	<u>67</u>	<u>6</u>	<u>67</u>	<u>10</u>	<u>67</u>		
P 4 <u>15</u>	<u>67</u>	<u>9</u>	<u>67</u>	<u>15</u>	<u>67</u>		
P 5 <u>20</u>	<u>67</u>	<u>12</u>	<u>67</u>	<u>20</u>	<u>108</u>		
P 6 <u>25</u>	<u>67</u>	<u>15</u>	<u>67</u>		<u>108</u>		
P 7 <u>30</u>	<u>67</u>	<u>18</u>	<u>71</u>				
P 8		<u>21</u>	<u>73</u>				
P 9							
P 10							
P 11							
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

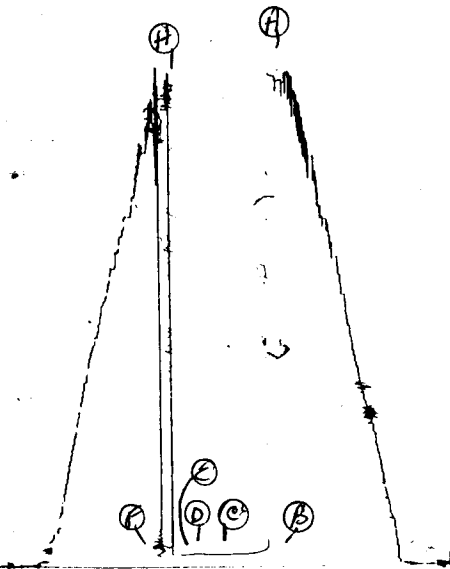
Flushed Tool
108
108

2606

DST #1

JK # 6582

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WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 6583

2341 Kelly Bashing

Morrow
Morrow

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

Elevation AB 41 KB Formation Morrow Pay 11 Ft.

District PRATH Date 8-10-80 Customer Order No. _____
COMPANY NAME Pickrell Drilling Company 110 South Market Wichita 67202
ADDRESS 110 South Market Wichita 67202
LEASE AND WELL NO. "A" Shattuck #4 COUNTY CLARK STATE KANS Sec. 30 Twp. 30S Rge. 21W
Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested Reg
Mail Charts To Same Co. Name _____ Address _____ No. Copies Requested Reg

Formation Test No. 2 Interval Tested from 5266 ft. to 5291 ft. Total Depth 5291 ft.
Packer Depth 5261 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5266 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5270 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 5273 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Co Tools Drill Collar Length 240 I. D. 2 1/4 in.
Mud Type Driscoll Viscosity 55 Weight Pipe Length _____ I. D. _____ in.
Weight 9.1 Water Loss 14.4 cc. Drill Pipe Length 4998 I. D. 3.8 in.
Chlorides 24,000 P.P.M. Test Tool Length 28 ft. Tool Size 5/200 in.
Jars: Make WTC Serial Number 411 Anchor Length 25 ft. Size 5/200 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 initial flow to surface 8 minutes - see flow charts

Recovered 70 ft. of slightly oil cut mud
Recovered 60 ft. of heavy oil cut mud
Recovered _____ ft. of 38 lb gas
Recovered _____ ft. of 25 lb oil
Recovered _____ ft. of 15 lb water 48 lb chloride P.P.M.
Recovered _____ ft. of 22 lb mud.

Remarks: had over AM tool in 4:30 P.M. laid down 1:30 P.M. after 2:00 AM

Time Set Packer(s)	Time Started Off Bottom	Maximum Temperature
<u>6:30</u> P.M.	<u>11:00</u> P.M.	<u>118° F</u>
Initial Hydrostatic Pressure (A)	<u>2659</u> P.S.I.	
Initial Flow Period (B)	<u>30</u> Minutes	<u>83</u> P.S.I. to (C)
Initial Closed In Period (D)	<u>60</u> Minutes	<u>758</u> P.S.I.
Final Flow Period (E)	<u>90</u> Minutes	<u>135</u> P.S.I. to (F)
Final Closed In Period (G)	<u>90</u> Minutes	<u>758</u> P.S.I.
Final Hydrostatic Pressure (H)	<u>2607</u> 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 Jay C. McNeil
Signature of Customer or his authorized representative

Western Representative Real Trust Thank you

FIELD INVOICE

Open Hole Test	<u>\$650.00</u>
Misrun	\$
Straddle Test	\$
_____	<u>\$300.00</u>
Selective Zone	\$
Safety Joint	<u>\$50.00</u>
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
TOTAL	<u>\$1000.00</u>



GAS FLOW REPORT

Nº 2064

Date 8-10-80 Ticket 2583 Company Lickrell Drilling Co
 Well Name and No. A Shattuck #4 Dst No. 2 Interval Tested 5266-5291
 County CLARK State KANSAS Sec. 30 Twp. 30 S Rg. 21 W

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
PRE FLOW					
8:30 P.M.	Inches of Water	Inch			Tool open gas to surface
10	26	"			132,000 m.c.f.P.D
20	32	"			146,000
30	40	"			163,000

SECOND FLOW					
	Inches of water	Inch			
10	48	1 inch		179,000	m.c.f.P.D
20	56		193,000	193,000	
30	58		203,000	197,000	
40	62		203,000		
50	3.0 PSI		242,000		
60	3.		242,000		
70	3.		242,000		
80	3.		242,000		
90	3.		242,000		

Bottle is at Pratt Shop -

GAS BOTTLE

Serial No. 42 Date Bottle Filled 8-10-80 Date to be Invoiced _____

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 Jay McNeil
 Authorized by (Signature)

WESTERN TESTING CO., INC.
Pressure Data

Date 8-10-80 Test Ticket No. 6583
 Recorder No. 2606 Capacity 4150 Location 5270 Ft.
 Clock No. _____ Elevation 2341 KB Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2660</u>	P.S.I.	<u>6:30 P.M.</u>	
B First Initial Flow Pressure	<u>89</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>89</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>761</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>89</u>	P.S.I.		
G Final Closed-in Pressure	<u>748</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2578</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>20</u> Inc.		Breakdown: <u>18</u> Inc.		Breakdown: <u>30</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>89</u>	0	<u>89</u>	0	<u>89</u>	0	<u>89</u>
P 2	<u>89</u>	3	<u>593</u>	5	<u>89</u>	3	<u>645</u>
P 3	<u>89</u>	6	<u>684</u>	10	<u>89</u>	6	<u>690</u>
P 4	<u>89</u>	9	<u>707</u>	15	<u>89</u>	9	<u>707</u>
P 5	<u>89</u>	12	<u>709</u>	20	<u>89</u>	12	<u>713</u>
P 6	<u>89</u>	15	<u>726</u>	25	<u>89</u>	15	<u>720</u>
P 7	<u>89</u>	18	<u>730</u>	30	<u>89</u>	18	<u>724</u>
P 8	<u>89</u>	21	<u>736</u>	35	<u>89</u>	21	<u>726</u>
P 9	<u>89</u>	24	<u>738</u>	40	<u>89</u>	24	<u>728</u>
P10	<u>89</u>	27	<u>740</u>	45	<u>89</u>	27	<u>729</u>
P11	<u>89</u>	30	<u>742</u>	50	<u>89</u>	30	<u>730</u>
P12	<u>89</u>	33	<u>744</u>	55	<u>89</u>	33	<u>731</u>
P13	<u>89</u>	36	<u>746</u>	60	<u>89</u>	36	<u>732</u>
P14	<u>89</u>	39	<u>747</u>	65	<u>89</u>	39	<u>733</u>
P15	<u>89</u>	42	<u>748</u>	70	<u>89</u>	42	<u>734</u>
P16	<u>89</u>	45	<u>750</u>	75	<u>89</u>	45	<u>735</u>
P17	<u>89</u>	48	<u>752</u>	80	<u>89</u>	48	<u>736</u>
P18	<u>89</u>	51	<u>754</u>	85	<u>89</u>	51	<u>737</u>
P19	<u>89</u>	54	<u>757</u>	90	<u>89</u>	54	<u>738</u>
P20	<u>89</u>	57	<u>759</u>			57	<u>739</u>
		60	<u>761</u>			60	<u>740</u>

cont

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticker No. 6583

Recorder No. _____ Capacity _____ Location _____ Ft

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.		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 Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	_____	63	_____	_____	_____	63	741
P 2	_____	66	_____	_____	_____	66	742
P 3	_____	69	_____	_____	_____	69	743
P 4	_____	72	_____	_____	_____	72	744
P 5	_____	75	_____	_____	_____	75	745
P 6	_____	78	_____	_____	_____	78	746
P 7	_____	81	_____	_____	_____	81	747
P 8	_____	84	_____	_____	_____	84	747
P 9	_____	87	_____	_____	_____	87	748
P10	_____	90	_____	_____	_____	90	748
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. Shattuck "A" #4
 Elevation 2341 Kelly Bushing Morrow Sand Formation Effective Pay ---- Ft. Ticket No. 6583
 Date 8/10/80 Sec. 30 Twp. 30S Range 21W County Clark State Kansas
 Test Approved by Jay C. McNeil Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 5266 ft. to 5291 ft. Total Depth 5291 ft.
 Packer Depth 5261 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 5266 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5270 ft. Recorder Number 2606 Cap 4150
 Bottom Recorder Depth (Outside) 5273 ft. Recorder Number 4332 Cap 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap -

Drilling Contractor Pickrell Drilling Drill Collar Length 240 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 55 Weight Pipe Length - I. D. - in.
 Weight 9.1 Water Loss 14.4 cc. Drill Pipe Length 4998 I. D. 3.8 in.
 Chlorides 24,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 411 Anchor Length 25 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 initial flow period. Gas to surface in eight minutes. See attached sheet for gas measurements.

Recovered 70 ft. of slightly oil cut mud
 Recovered 60 ft. of heavy oil cut mud (38% gas; 25% oil, 15% water, 22% mud)
 Recovered ft. of Chlorides 48% ppm
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 6:30 A.M. Time Started Off Bottom 11:00 A.M. Maximum Temperature 118°
 Initial Hydrostatic Pressure 2660 P.S.I.
 Initial Flow Period 30 Minutes (B) 89 P.S.I. to (C) 89 P.S.I.
 Initial Closed In Period 60 Minutes (D) 761 P.S.I.
 Final Flow Period 90 Minutes (E) 89 P.S.I. to (F) 89 P.S.I.
 Final Closed In Period 90 Minutes (G) 748 P.S.I.
 Final Hydrostatic Pressure 2578 P.S.I. (H)

GAS FLOW REPORT

Date 8/10/80 Ticket 6583 Company Pickrell Drilling Company
 Well Name and No. Shattuck "A" #4 Dst No. 2 Interval Tested 5266' - 5291'
 County Clark State Kansas Sec. 30 Twp. 30S Rg. 21W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Meria 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						
8:30 PM	Tool open					
	8 min.	GAS TO SURFACE				
	10 min.	26" of water		1" orifice		132,000 CFPD
	20 min.	32" of water		1" orifice		146,000 CFPD
	30 min.	40" of water		1" orifice		163,000 CFPD

SECOND FLOW						
	10 min.	48" of water		1" orifice		179,000 CFPD
	20 min.	56" of water		1" orifice		193,000 CFPD
	30 min.	58" of water		1" orifice		197,000 CFPD
	40 min.	62" of water		1" orifice		203,000 CFPD
	50 min.	3.0 PSI		1" orifice		242,000 CFPD
	60 min.	3.0 PSI		1" orifice		242,000 CFPD
	70 min.	3.0 PSI		1" orifice		242,000 CFPD
	80 min.	3.0 PSI		1" orifice		242,000 CFPD
	90 min.	3.0 PSI		1" orifice		242,000 CFPD

GAS BOTTLE

Serial No. 42 Date Bottle Filled 8/10/80 Date to be Invoiced 8/10/80

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 1/2% 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 Pickrell Drilling Company
Jay C. McNeil
 Authorized by _____

WESTERN TESTING CO., INC.
Pressure Data

Date 8/10/80 Test Ticket No. 6583
 Recorder No. 2606 Capacity 4150 Location 5270 Ft.
 Clock No. - Elevation 2341 Kelly Bushing Well Temperature 118 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2660</u> P.S.I.	Open Tool	<u>6:30P</u> M	
B First Initial Flow Pressure	<u>89</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>89</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>761</u> P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>89</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>89</u> P.S.I.			
G Final Closed-in Pressure	<u>748</u> P.S.I.			
H Final Hydrostatic Mud	<u>2578</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>18</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>89</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>89</u>
P 2	<u>89</u>	<u>3</u>	<u>593</u>	<u>5</u>	<u>89</u>	<u>3</u>	<u>645</u>
P 3	<u>89</u>	<u>6</u>	<u>684</u>	<u>10</u>	<u>89</u>	<u>6</u>	<u>690</u>
P 4	<u>89</u>	<u>9</u>	<u>707</u>	<u>15</u>	<u>89</u>	<u>9</u>	<u>707</u>
P 5	<u>89</u>	<u>12</u>	<u>719</u>	<u>20</u>	<u>89</u>	<u>12</u>	<u>713</u>
P 6	<u>89</u>	<u>15</u>	<u>726</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>720</u>
P 7	<u>89</u>	<u>18</u>	<u>730</u>	<u>30</u>	<u>89</u>	<u>18</u>	<u>724</u>
P 8		<u>21</u>	<u>736</u>	<u>35</u>	<u>89</u>	<u>21</u>	<u>726</u>
P 9		<u>24</u>	<u>738</u>	<u>40</u>	<u>89</u>	<u>24</u>	<u>728</u>
P10		<u>27</u>	<u>740</u>	<u>45</u>	<u>89</u>	<u>27</u>	<u>729</u>
P11		<u>30</u>	<u>742</u>	<u>50</u>	<u>89</u>	<u>30</u>	<u>730</u>
P12		<u>33</u>	<u>744</u>	<u>55</u>	<u>89</u>	<u>33</u>	<u>731</u>
P13		<u>36</u>	<u>746</u>	<u>60</u>	<u>89</u>	<u>36</u>	<u>732</u>
P14		<u>39</u>	<u>747</u>	<u>65</u>	<u>89</u>	<u>39</u>	<u>733</u>
P15		<u>42</u>	<u>748</u>	<u>70</u>	<u>89</u>	<u>42</u>	<u>734</u>
P16		<u>45</u>	<u>750</u>	<u>75</u>	<u>89</u>	<u>45</u>	<u>735</u>
P17		<u>48</u>	<u>752</u>	<u>80</u>	<u>89</u>	<u>48</u>	<u>736</u>
P18		<u>51</u>	<u>754</u>	<u>85</u>	<u>89</u>	<u>51</u>	<u>737</u>
P19		<u>54</u>	<u>757</u>	<u>90</u>	<u>89</u>	<u>54</u>	<u>738</u>
P20		<u>57</u>	<u>759</u>			<u>57</u>	<u>739</u>
		<u>60</u>	<u>761</u>			<u>60</u>	<u>740</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 8/10/80 Test Ticket No. 6583
 Recorder No. 2606 Capacity 4150 Location 5270 Ft.
 Clock No. - Elevation 2341 Kelly Bushing Well Temperature 118 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2660</u>	P.S.I.	Open Tool	<u>6:30P</u> M	
B First Initial Flow Pressure	<u>89</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>89</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>761</u>	P.S.I.	Second Flow Pressure	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>89</u>	P.S.I.			
G Final Closed-in Pressure	<u>748</u>	P.S.I.			
H Final Hydrostatic Mud	<u>2578</u>	P.S.I.			

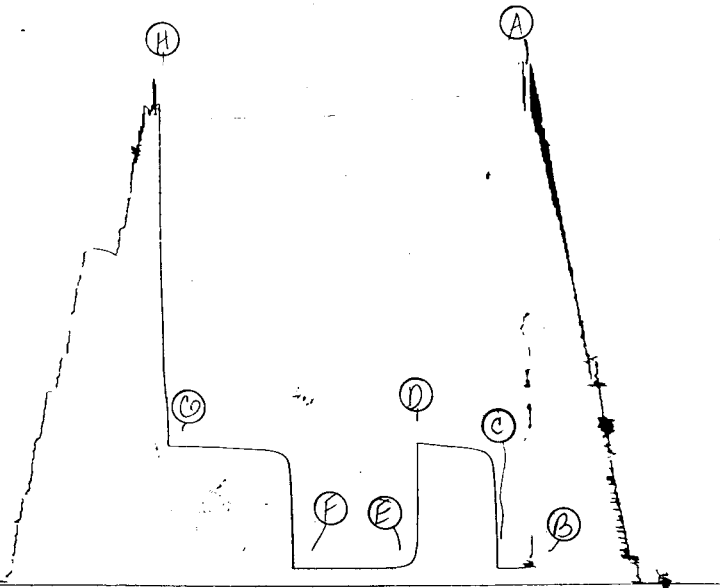
PRESSURE BREAKDOWN

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>20</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.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1					<u>63</u>	<u>741</u>
P 2					<u>66</u>	<u>742</u>
P 3					<u>69</u>	<u>743</u>
P 4					<u>72</u>	<u>744</u>
P 5					<u>75</u>	<u>745</u>
P 6					<u>78</u>	<u>746</u>
P 7					<u>81</u>	<u>747</u>
P 8					<u>84</u>	<u>747</u>
P 9					<u>87</u>	<u>748</u>
P10					<u>90</u>	<u>748</u>
P11						
P12						
P13						
P14						
P15						
P16						
P17						
P18						
P19						
P20						

2606. DST #2

TIT #6583
I





WESTERN TESTING CO., INC.

OK

FORMATION TESTING

TICKET No. 6584

Kelly Bushing

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

Elevation 2341 RB Formation Morrill sand Sandstone Off. Pay Ft.

District PRATT Date 8-11-80 Customer Order No. _____

COMPANY NAME Pickrell Drilling Company Wichita Bldg Suite 205

ADDRESS 110 South market Wichita, Kansas 67202

LEASE AND WELL NO. "A" Shattuck #4 COUNTY CLARK STATE KANSAS Sec. 30 Twp 309 Rge 21W

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

Mail Charts To Same Address _____ No. Copies Requested Reg

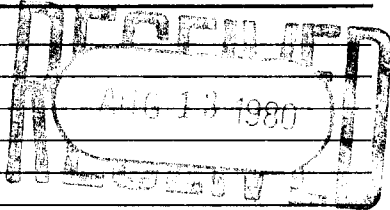
Formation Test No. 3 Interval Tested from 5301 ft. to 5322 ft. Total Depth 5322 ft.
Packer Depth 5296 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5301 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5305 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 5308 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Co Tools Drill Collar Length 240 I. D. 2 1/4 in.
Mud Type DRISPAR Viscosity 52 Weight Pipe Length _____ I. D. _____ in.
Weight 9.5 Water Loss 16.4 cc. Drill Pipe Length 5033 I. D. 3.8 in.
Chlorides 25,000 P.P.M. Test Tool Length 28 ft. Tool Size 560D in.
Jars: Make WTC Serial Number 411 Anchor Length 21 ft. Size 560D in.
Did Well Flow? Yes Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong blow gas to surface from - see flow chart

Recovered 62 ft. of free oil
Recovered 153 ft. of oil + gas cut water
Recovered 62 ft. of Slightly oil + Gas + mud cut water
Recovered 806 ft. of Water chlorides 108,000 P.P.M.
Recovered _____ ft. of _____
Remarks: clock in recorder 4332 stopped



on 11:30 AM tool up 12:00 N. laid down tool 2:30 P.M. off loc. 8:00 P.M

Time Set Packer(s) 1:30 ^{AM} P.M. Time Started Off Bottom 4:20 ^{AM} P.M. Maximum Temperature 119° F
Initial Hydrostatic Pressure (A) 2733 P.S.I.
Initial Flow Period Minutes 30 (B) 603 P.S.I. to (C) 1039 P.S.I.
Initial Closed In Period Minutes 60 (D) 1537 P.S.I.
Final Flow Period Minutes 20 (E) 863 P.S.I. to (F) 1008 P.S.I.
Final Closed In Period Minutes 60 (G) 1537 P.S.I.
Final Hydrostatic Pressure (H) 2680 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 Jay C. McNeil
Signature of Customer or his authorized representative

Western Representative Red Jitt Thank you.

FIELD INVOICE

Open Hole Test \$ 450.00
Misrun \$ _____
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 50.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ 75.56²⁵
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 1056²⁵



GAS FLOW REPORT

Nº 2065

Date 8-11-80 Ticket 6584 Company Pickreel Drilling Co
 Well Name and No. A Shattuck #4 Dst No. 3 Interval Tested 5301-5322
 County CLARK State KANSAS Sec. 30 Twp. 30 S Rg. 21 W

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

<u>1:30 PM</u>					
<u>4</u>		<u>2"</u>			<u>gas to surf.</u>
<u>10</u>	<u>12 psi</u>	<u>"</u>			<u>526,000 McFPD</u>
<u>15</u>					<u>flowed mud</u>
<u>20</u>					<u>" oil + water</u>
					<u>40% oil</u>
					<u>60% water</u>
					<u>chlorides 82,000 ppm</u>

SECOND FLOW

<u>10</u>					<u>flowed oil + gas - water</u>
<u>20</u>	<u>10 psi</u>	<u>1 1/2"</u>			<u>1,274,000 Mc & P.D</u>
					<u>10 min / sample 40% oil</u>
					<u>60% water 108,000 P.P.M</u>
					<u>15 min / 2 sample 57% oil</u>
					<u>35% mud</u>
					<u>8% water</u>
					<u>20 min #3 sample 40% oil</u>
					<u>60% water 108,000</u>

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

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 8-11-80 Test Ticket No. 6584
 Recorder No. 2606 Capacity 4150 Location 5305 Ft.
 Clock No. _____ Elevation 2341 KB Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2748</u> P.S.I.	Open Tool	<u>1:30 P</u>	M
B First Initial Flow Pressure	<u>599</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
C First Final Flow Pressure	<u>1035</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>66</u> Mins.
D Initial Closed-in Pressure	<u>1538</u> P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>15</u> Mins.
E Second Initial Flow Pressure	<u>854</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>69</u> Mins.
F Second Final Flow Pressure	<u>1002</u> P.S.I.			
G Final Closed-in Pressure	<u>1529</u> P.S.I.			
H Final Hydrostatic Mud	<u>2689</u> 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: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

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

Final Shut-In
 Breakdown: 23 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>599</u>	0	<u>1035</u>	0	<u>854</u> 865	0	<u>1002</u>
P 2 5	<u>639</u>	3	<u>1463</u>	5	<u>854</u>	3	<u>1456</u>
P 3 10	<u>757</u>	6	<u>1490</u>	10	<u>904</u> 900	6	<u>1481</u>
P 4 15	<u>840</u>	9	<u>1502</u>	15	<u>1002</u>	9	<u>1494</u>
P 5 20	<u>969</u>	12	<u>1510</u>	20		12	<u>1502</u>
P 6 25	<u>1035</u>	15	<u>1517</u>	25		15	<u>1506</u>
P 7 30		18	<u>1521</u>	30		18	<u>1511</u>
P 8 35		21	<u>1525</u>	35		21	<u>1514</u>
P 9 40		24	<u>1528</u>	40		24	<u>1517</u>
P10 45		27	<u>1530</u>	45		27	<u>1520</u>
P11 50		30	<u>1532</u>	50		30	<u>1523</u>
P12 55		33	<u>1534</u>	55		33	1523
P13 60		36	<u>1535</u>	60		36	<u>1524</u>
P14		39	<u>1536</u>	65		39	<u>1524</u>
P15		42	<u>1537</u>	70		42	<u>1525</u>
P16		45	<u>1538</u>	75		45	<u>1525</u>
P17		48	<u>15</u>	80		48	<u>1526</u>
P18		51	<u>15</u>	85		51	<u>1527</u>
P19		54	<u>15</u>	90		54	<u>1527</u>
P20		57	<u>15</u>			57	<u>1528</u>
		60	<u>15</u>			60	<u>1529</u>
		<u>63</u>	<u>15</u>			<u>63</u>	<u>1529</u>
		<u>66</u>	<u>1538</u>			<u>66</u>	<u>1529</u>

Company Pickrell Drilling Company Lease & Well No. Shattuck "A" #4
 Elevation 2341 Kelly Bushing Formation Morrow Sand Effective Pay ---- Ft. Ticket No. 6584
 Date 8/11/80 Sec. 30 Twp. 30S Range. 21W County Clark State Kansas
 Test Approved by Jay C. McNeil Western Representative Rod Tritt

Formation Test No. 3 Interval Tested from 5301 ft. to 5322 ft. Total Depth 5322 ft.
 Packer Depth 5296ft. Size 6 3/4. Packer Depth - ft. Size - in.
 Packer Depth 5301ft. Size 6 3/4. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5305 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5308 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Co. Drill Collar Length 240 I. D. 2 3/4 in.
 Mud Type drispac Viscosity 52 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss 16.4 cc. Drill Pipe Length 5033 I. D. 3.8 in.
 Chlorides 25,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 411 Anchor Length 21 ft. Size 5 1/2 OD in.
 Did Well Flow Yes Reversed Out Yes Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Strong blow ; gas to surface four minutes. See attached sheet for gas measurements.

Recovered 62 ft. of free oil
 Recovered 153 ft. of oil and gas cut water
 Recovered 62 ft. of slightly oil and gas and mud cut water
 Recovered 806 ft. of water Chlorides 108,000 ppm
 Recovered ft. of
 Remarks: Clock in recorder #4332 stopped.

Time Set Packer(s) 1:30 ~~AM~~ P.M. Time Started Off Bottom 4:20 ~~AM~~ P.M. Maximum Temperature 119°
 Initial Hydrostatic Pressure (A) 2748 P.S.I.
 Initial Flow Period Minutes 25 (B) 599 P.S.I. to (C) 1035 P.S.I.
 Initial Closed In Period Minutes 66 (D) 1538 P.S.I.
 Final Flow Period Minutes 15 (E) 854 P.S.I. to (F) 1002 P.S.I.
 Final Closed In Period Minutes 69 (G) 1529 P.S.I.
 Final Hydrostatic Pressure (H) 2689 P.S.I.

GAS FLOW REPORT

Date 8/11/80 Ticket 6584 Company Pickrell Drilling Company
 Well Name and No. Shattuck "A" #4 Dst No. 3 Interval Tested 5301'-5322'
 County Clark State Kansas Sec. 30 Twp. 30S 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						
1:30 PM						
	4 min.		1" orifice			Gas to surface
	10 min.	12 PSI	1" orifice			526,000 CFPD
	15 min.					Flowed mud
	20 min.					Flowed oil and water
						40% oil
						60% water
SECOND FLOW						
						Chlorides 82,000 ppm
	10 min.					Flowed oil and gas - water 1,274,000 CFPD
	20 min.	10 PSI	1½" orifice			
					10 min. #1 Sample	40% oil
						60% water Chlorides 108,000PPM
					15 min. #2 Sample	57% oil
						35% mud
						8% water
					20 min. #3 Sample	40% oil
						60% water Chlorides 108,000 PP

GAS BOTTLE

Serial No. --0-- Date Bottle Filled --0-- Date to be Invoiced 8/11/80

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 Pickrell Drilling Company
 Jay C. McNeil
 Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 8/11/80 Test Ticket No. 6584
 Recorder No. 2606 Capacity 4150 Location 5305 Ft.
 Clock No. ---- Elevation 2341 Kelly Bushing Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2748</u>	P.S.I.	<u>1:30P</u>	<u>M</u>
B First Initial Flow Pressure	<u>599</u>	P.S.I.	<u>30</u>	<u>25</u>
C First Final Flow Pressure	<u>1035</u>	P.S.I.	<u>60</u>	<u>66</u>
D Initial Closed-in Pressure	<u>1538</u>	P.S.I.	<u>20</u>	<u>15</u>
E Second Initial Flow Pressure	<u>854</u>	P.S.I.	<u>60</u>	<u>69</u>
F Second Final Flow Pressure	<u>1002</u>	P.S.I.		
G Final Closed-in Pressure	<u>1529</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2689</u>	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: 22 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

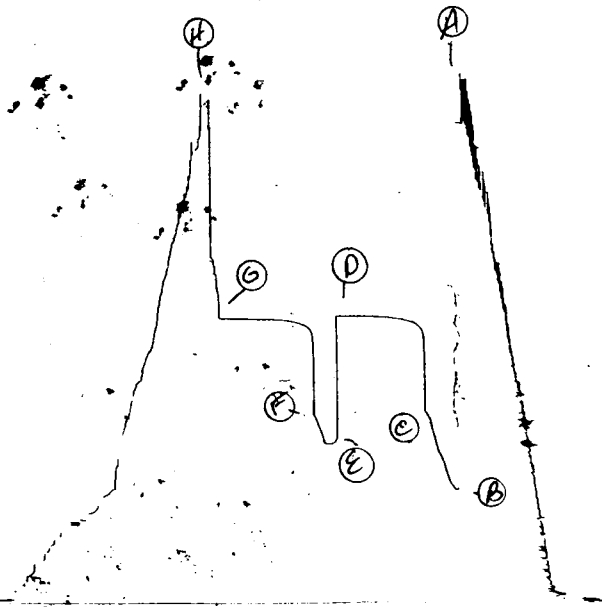
Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 23 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 <u>0</u>	<u>599</u>	<u>0</u>	<u>1035</u>	<u>0</u>	<u>854</u>	<u>0</u>	<u>1002</u>
P 2 <u>5</u>	<u>639</u>	<u>3</u>	<u>1463</u>	<u>5</u>	<u>854</u>	<u>3</u>	<u>1456</u>
P 3 <u>10</u>	<u>757</u>	<u>6</u>	<u>1490</u>	<u>10</u>	<u>904</u>	<u>6</u>	<u>1481</u>
P 4 <u>15</u>	<u>840</u>	<u>9</u>	<u>1502</u>	<u>15</u>	<u>1002</u>	<u>9</u>	<u>1494</u>
P 5 <u>20</u>	<u>969</u>	<u>12</u>	<u>1510</u>			<u>12</u>	<u>1502</u>
P 6 <u>25</u>	<u>1035</u>	<u>15</u>	<u>1517</u>			<u>15</u>	<u>1506</u>
P 7		<u>18</u>	<u>1521</u>			<u>18</u>	<u>1511</u>
P 8		<u>21</u>	<u>1525</u>			<u>21</u>	<u>1514</u>
P 9		<u>24</u>	<u>1528</u>			<u>24</u>	<u>1517</u>
P10		<u>27</u>	<u>1530</u>			<u>27</u>	<u>1520</u>
P11		<u>30</u>	<u>1532</u>			<u>30</u>	<u>1523</u>
P12		<u>33</u>	<u>1534</u>			<u>33</u>	<u>1523</u>
P13		<u>36</u>	<u>1535</u>			<u>36</u>	<u>1524</u>
P14		<u>39</u>	<u>1536</u>			<u>39</u>	<u>1524</u>
P15		<u>42</u>	<u>1637</u>			<u>42</u>	<u>1525</u>
P16		<u>45</u>	<u>1538</u>			<u>45</u>	<u>1525</u>
P17		<u>48</u>	<u>1538</u>			<u>48</u>	<u>1526</u>
P18		<u>51</u>	<u>1538</u>			<u>51</u>	<u>1527</u>
		<u>54</u>	<u>1538</u>			<u>54</u>	<u>1527</u>
P19		<u>57</u>	<u>1538</u>			<u>57</u>	<u>1528</u>
		<u>60</u>	<u>1538</u>			<u>60</u>	<u>1529</u>
P20		<u>63</u>	<u>1538</u>			<u>63</u>	<u>1529</u>
		<u>66</u>	<u>1538</u>			<u>66</u>	<u>1529</u>
						<u>69</u>	<u>1529</u>

JK # 6584

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

WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 6585

Kelly Bashing

Elevation 2341 KB Formation MISSISSIPPI Eff. Pay Ft.

District 8-12-80 PAAT Customer Order No. _____
COMPANY NAME Pickrell Drilling Company Wichita, Bldg Suite 205
ADDRESS 110 South Market Wichita, Kansas 67202
LEASE AND WELL NO. A Shattuck #4 COUNTY CLARK STATE KANSAS Sec. 30 Twp. 30S Rge. 21W
Mail Invoice To Same Address _____ No. Copies Requested 5
Co. Name _____ Address _____ No. Copies Requested 5
Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. 4 Interval Tested from 5329 ft. to 5360 ft. Total Depth 5360 ft.
Packer Depth 5324 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 5329 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5333 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 5336 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Co Tools Drill Collar Length 240 I. D. 2 1/4 in.
Mud Type Driscoll Viscosity 52 Weight Pipe Length _____ I. D. _____ in.
Weight _____ Water Loss _____ cc. Drill Pipe Length 5060 I. D. 3.8 in.
Chlorides _____ P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 411 Anchor Length 31 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 7/8 in. Tool Joint Size 4 1/2 FH in.

Blow: Weak dealing to very weak on initial flow period
No blow on final flow

Recovered 30' ft. of Slightly oil cap, mud
Recovered _____ ft. of Misrun both clocks stopped
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: flushed tool on final flow

sube. 5:00 AM tool up 5:30 AM 1045 Tool laid down off loc.

Time Set Packer(s) 7:50 A.M. Time Started Off Bottom 9-10 A.M. Maximum Temperature _____
Initial Hydrostatic Pressure _____ (A) _____ P.S.I.
Initial Flow Period _____ Minutes 30 (B) _____ P.S.I. (C) _____ P.S.I.
Initial Closed In Period _____ Minutes 30 (D) _____ P.S.I.
Final Flow Period _____ Minutes 10+10 (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

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.

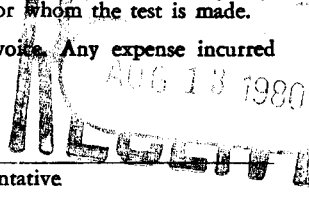
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

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

Western Representative Bob Britt Thank you

FIELD INVOICE

Open Hole Test 1200
Misrun \$ 800.00
Straddle Test \$ _____
Jars \$ 300.00
Selective Zone \$ _____
Safety Joint \$ 50.00
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ 2356.25
Fluid Sampler \$ _____
Extra Charts \$ _____
TOTAL \$ 7062.50



Company Pickrell Drilling Company Lease & Well No. Shattuck 'A' #4
 Elevation 2341 Kelly Formation Mississippi Effective Pay ----- Ft. Ticket No. 6585
 Date 8/12/80 Sec. 30 Twp. 30S Range 21W County Clark State Kansas
 Test Approved by Jay C. McNeil Western Representative Rod Tritt

Formation Test No. 4 Interval Tested from 5329 ft. to 5360 ft. Total Depth 5360 ft.
 Packer Depth 5324 ft. Size 6 3/4 Packer Depth - ft. Size - in.
 Packer Depth 5329 ft. Size 6 3/4 Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 5333 ft. Recorder Number 2606 Cap. 4150
 Bottom Recorder Depth (Outside) 5336 ft. Recorder Number 4332 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Pickrell Drilling Co. Drill Collar Length 240 I. D. 2 1/4 in.
 Mud Type drispac Viscosity 52 Weight Pipe Length - I. D. - in.
 Weight - Water Loss - cc. Drill Pipe Length 5060 I. D. 3.8 in.
 Chlorides - P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.
 Jars: Make WTC Serial Number 411 Anchor Length 31 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 declining to very weak on initial flow peirod. No blow on final flow.

Recovered 30 ft. of slightly oil cut mud
 Recovered - ft. of -
 Recovered - ft. of MISRUN BOTH CLOCKS STOPPED.
 Recovered - ft. of -
 Recovered - ft. of -
 Remarks: FLUSHED TOOL ON FINAL FLOW.

NO PRESSURES AVAILABLE

Time Set Packer(s) 7:50 ~~P.M.~~ A.M. Time Started Off Bottom 9:10 ~~P.M.~~ A.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.

JKT # 6585

JKT # 6585