



Home Office: Wichita, Kansas 67201  
P. O. Box 1599 (316) 838-0601

Company Roberston Brothers Lease & Well No. Burch #2  
Elevation 1052 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 21865  
Date 4-13-77 Sec. 16 Twp. 29S Range 12W County Elk State Kansas  
Test Approved by J.R. Fester Western Representative Bill Baker

Formation Test No. 1 O.K.  Misrun  Interval Tested From 1696' to 1706' Total Depth 1706'  
Size Main Hole 6 1/4 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Top Packer Depth 1691 Ft. Size 5 1/2 Bottom Packer Depth 1696 Ft. Size 5 1/2  
Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size   
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 4100 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1699 Ft. Clock No. 8475 Depth 1702 Ft. Clock No. 8474  
Top Make Kuster Cap. 3150 No. 1565 Inside Outside Bottom Make Kuster Cap. 3200 No. 1561 Inside Outside  
Below Straddle: Depth  Rec. No.  Clock No.  Inside Outside Depth  Ft. Rec. No.  Clock No.  Inside Outside

Time Set Packer 10:13 P M  
Tool Open I.F.P. From 10:15 P.M. to 10:30 P.M. - Hr. 15 Min. From (B) 10 P.S.I. To (C) 10 P.S.I.  
Tool Closed I.C.I.P. From 10:30 P.M. to 10:50 P.M. - Hr. 20 Min (D) 10 P.S.I.  
Tool Open F.F.P. From  M. to  M. - Hr.  Min. From (E)  P.S.I. To (F)  P.S.I.  
Tool Closed F.C.I.P. From  M. to  M. - Hr.  Min. (G)  P.S.I.  
Initial Hydrostatic Pressure (A) 825 P.S.I. Final Hydrostatic Pressure (H) 825 P.S.I. Maximum Temp. 98

**INFORMATION**

BLOW Very weak blow for 15 minutes.  
Did Well Flow  Yes  No Recovery Total Ft. 10' drilling mud.

Reversed Out  Yes  No Mud Type chem Viscosity 38 Weight 9.6 Water Loss 20.0 cc. Chlorides 1400 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Jars: Size  In. Make  Ser. No.

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where?

DRILLING CONTRACTOR B & N Drlg. Co. #11 Length Drill Pipe? 1586 Ft. I.D. Drill Pipe 2.8 In. Tool Joint Size 3 1/2 IF In.  
Length Weight Pipe  Ft. I.D. Weight Pipe  In. Tool Joint Size  In. Length Drill Collars 120 Ft. I.D. Drill Collars 2 In.  
Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 30 Ft.

Remarks: Read outside recorder #1561

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

Date 4-13-77 Test Ticket No. 21865  
 Recorder No. 11561 Capacity 3200 Location 1702 Ft.  
 Clock No. 8474 Elevation 1052 Ground Level Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>825</u> P.S.I.	Open Tool	<u>10:13 P M</u>	
B First Initial Flow Pressure	<u>10</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>10</u> P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>12</u> Mins.
D Initial Closed-in Pressure	<u>10</u> 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	<u>825</u> P.S.I.			

**PRESSURE BREAKDOWN**

Point	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Mins.	Press.	Minutes	Press.	Minutes	Press.	Minutes	Press.
P 1	<u>0</u>	<u>10</u>	<u>0</u>	<u>10</u>				
P 2	<u>5</u>	<u>10</u>	<u>3</u>	<u>10</u>				
P 3	<u>10</u>	<u>10</u>	<u>6</u>	<u>10</u>				
P 4			<u>9</u>	<u>10</u>				
P 5			<u>12</u>	<u>10</u>				
P 6								
P 7								
P 8								
P 9								
P10								
P11								
P12								
P13								
P14								
P15								
P16								
P17								
P18								
P19								
P20								

TK4#21865

D.

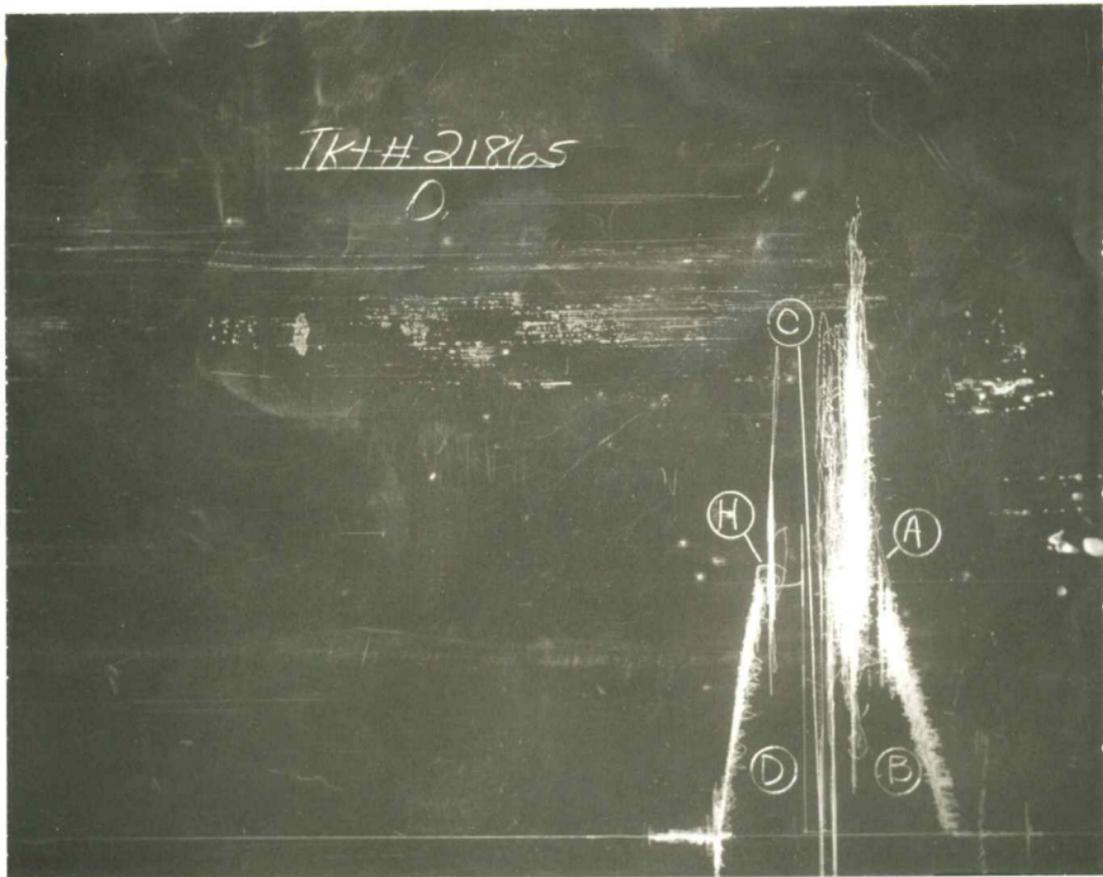
(C)

(H)

(A)

(D)

(B)





Home Office: Wichita, Kansas 67201

Company Roberston Brothers P. O. Box 1599 (316) 838-0601 Lease & Well No. Burch #2  
Elevation 1052 Ground Level Formation Mississippi Effective Pay - Ft. Ticket No. 21866  
Date 4-14-77 Sec. 16 Twp. 29S Range 12W County Elk State Kansas  
Test Approved by R.L. Finney Western Representative Bill Baker

Formation Test No. 2 O.K.  Misrun  Interval Tested From 1696' to 1720' Total Depth 1720'  
Size Main Hole 6 1/4 Rat Hole  Conv.  B.T.  Damaged  Yes  No Conv.  B.T.  Damaged  Yes  No  
Top Packer Depth 1691 Ft. Size 5 1/2 Bottom Packer Depth 1696 Ft. Size 5 1/2  
Straddle  Conv.  B.T.  Damaged  Yes  No Packer Depth  Ft. Size   
Tool Size 4 1/2 OD Tool Joint Size 3 1/2 IF Anchor Length 24 Ft. Size 4 1/2 OD Surface Choke Size 1/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 1713 Ft. Clock No. 8475 Depth 1716 Ft. Clock No. 8474  
Top Make Kuster Cap. 3150 No. 1565 <sup>Inside</sup> ~~Outside~~ Bottom Make Kuster Cap. 3200 No. 1561 <sup>Inside</sup> ~~Outside~~  
Below Straddle: Depth  Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~ Depth  Ft. Rec. No.  Clock No.  <sup>Inside</sup> ~~Outside~~

Time Set Packer 5:43 AM  
Tool Open I.F.P. From 5:45 AM to 6:00 AM - Hr. 15 Min. From (B) 108 P.S.I. To (C) 122 P.S.I.  
Tool Closed I.C.I.P. From 6:00 M. to 6:30 a.M. - Hr. 30 Min (D) 601 P.S.I.  
Tool Open F.F.P. From 6:30 AM to 7:30 AM 1 Hr. - Min. From (E) 150 P.S.I. To (F) 237 P.S.I.  
Tool Closed F.C.I.P. From 7:30 M. to 8:00 AM = Hr. 30 Min. (G) 571 P.S.I.  
Initial Hydrostatic Pressure (A) 878 P.S.I. Final Hydrostatic Pressure (H) 854 P.S.I. Maximum Temp. 98

**INFORMATION**

BLOW Strong blow throughout test. Gas to surface in 2 minutes. See attached sheet for gas measurements.

Did Well Flow - Yes  No  Recovery Total Ft. 315' total recovery. 45' drilling mud, 90' muddy salt water, 180' saltwater.

Reversed Out - Yes  No  Mud Type chem Viscosity 40 Weight 8.9 Water Loss 20.0 cc. Chlorides 1400 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint  Jars: Size  In. Make  Ser. No.

Dual Packer  Did Packers Hold?  Did Tool Plug?  Where?

DRILLING CONTRACTOR B & N Drlg. I b. #1 Length Drill Pipe? 1604 Ft. I.D. Drill Pipe 2.8 In. Tool Joint Size 3 1/2 IF In.

Length Weight Pipe  Ft. I.D. Weight Pipe  In. Tool Joint Size  In. Length Drill Collars 120 Ft. I.D. Drill Collars 2 In.

Tool Joint Size 3 1/2 IF In. Length D.S.T. Tool 44 Ft.

Remarks:



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### GAS FLOW REPORT

Date 4-14-77 Ticket 21866 Company Roberston Brothers  
 Well Name and No. Burch #2 Dst No. 2 Interval Tested 1696' - 1720'  
 County Elk State Kansas Sec. 16 Twp. 29S Rg. 12W

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	
<b>PRE FLOW</b>							
5:50 AM	5 min.	5 PSIG		½" choke		20,700	C.F.P.D. Gas
5:55 AM	10 min.	6 PSIG		½" choke		22,900	C.F.P.D. Gas
6:00 AM	15 min.	4.5 PSIG		½" choke		19,500	C.F.P.D. Gas

<b>SECOND FLOW</b>							
6:35 AM	20 min.	7.5 PSIG		½" choke		26,100	C.F.P.D. Gas
6:40 AM	25 min.	4 PSIG		½" choke		18,500	C.F.P.D. Gas
6:45 AM	30 min.	2.5 PSIG		½" choke		14,300	C.F.P.D. Gas
6:50 AM	35 min.	2 PSIG		½" choke		12,700	C.F.P.D. Gas
7:15 AM	60 min.	2 PSIG		½" choke		12,700	C.F.P.D. Gas
7:20 AM	65 min.	48 inches of water		½" choke		11,000	C.F.P.D. Gas
7:30 AM	75 min.	48 inches of water		½" choke		11,000	C.F.P.D. Gas

### GAS BOTTLE

Serial No. \_\_\_\_\_ Date Bottle Filled 4-14-77 Date to be Invoiced 4-14-77

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 Roberston Brothers

Authorized by R.L. Finney

WESTERN TESTING CO., INC.

Pressure Data

Date 4-14-77 Test Ticket No. 21866  
 Recorder No. 1565 Capacity 3150 Location 1713 Ft.  
 Clock No. 8475 Elevation 1052 Ground Level Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	878 P.S.I.	Open Tool	5:43 A M	
B First Initial Flow Pressure	108 P.S.I.	First Flow Pressure	15 Mins.	20 Mins.
C First Final Flow Pressure	122 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	601 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	150 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	237 P.S.I.			
G Final Closed-in Pressure	571 P.S.I.			
H Final Hydrostatic Mud	854 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</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>108</u>	<u>0</u>	<u>122</u>	<u>0</u>	<u>150</u>	<u>0</u>	<u>237</u>
P 2 <u>5</u>	<u>98</u>	<u>3</u>	<u>450</u>	<u>5</u>	<u>154</u>	<u>3</u>	<u>459</u>
P 3 <u>10</u>	<u>108</u>	<u>6</u>	<u>514</u>	<u>10</u>	<u>161</u>	<u>6</u>	<u>504</u>
P 4 <u>15</u>	<u>118</u>	<u>9</u>	<u>541</u>	<u>15</u>	<u>169</u>	<u>9</u>	<u>521</u>
P 5 <u>20</u>	<u>122</u>	<u>12</u>	<u>560</u>	<u>20</u>	<u>177</u>	<u>12</u>	<u>533</u>
P 6		<u>15</u>	<u>572</u>	<u>25</u>	<u>187</u>	<u>15</u>	<u>543</u>
P 7		<u>18</u>	<u>581</u>	<u>30</u>	<u>194</u>	<u>18</u>	<u>550</u>
P 8		<u>21</u>	<u>587</u>	<u>35</u>	<u>202</u>	<u>21</u>	<u>556</u>
P 9		<u>24</u>	<u>593</u>	<u>40</u>	<u>211</u>	<u>24</u>	<u>563</u>
P10		<u>27</u>	<u>596</u>	<u>45</u>	<u>219</u>	<u>27</u>	<u>566</u>
P11		<u>30</u>	<u>601</u>	<u>50</u>	<u>227</u>	<u>30</u>	<u>571</u>
P12				<u>55</u>	<u>234</u>		
P13				<u>60</u>	<u>237</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TK+ # 21866

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