

Company George A. Reed Lease & Well No. Permer #1
 Elevation 1448 Derrick Floor Effective Pay - Ft. Ticket No. 10346
 Date 9/30/81 Sec. 17 Twp. 19S Range 2E County Marion State Kansas
 Test Approved by George A. Reed Western Representative Allen Edgington
 Formation Test No. 1 Interval Tested from 2676 ft. to 2696 ft. Total Depth 2696 ft.
 Packer Depth 2671 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 2676 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -
 Top Recorder Depth (Inside) AP 2660 ft. Recorder Number 3354 Cap. 4200
 Bottom Recorder Depth (Outside) 2663 ft. Recorder Number 5666 Cap. 3950
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Berentz Drlg. Rig #3 Drill Collar Length 241 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 58 Weight Pipe Length - I. D. - in.
 Weight 9.5 Water Loss - cc. Drill Pipe Length 2413 I. D. 3.8 in.
 Chlorides - P.P.M. Test Tool Length 27 ft. Tool Size 4 1/2 in.
 Jars: Make - Serial Number - Anchor Length 20 ft. Size 4 1/2 in.
 Did Well Flow? Yes 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 XH in.

Blow: Strong. Gas to surface in two minutes. See attached sheet for gas measurements.

Recovered 210 ft. of muddy water Chlorides 18,000 ppm
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -
 Recovered - ft. of -

Remarks: -

READ OUTSIDE CHART

Time Set Packer(s) 5:15 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 7:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 105°
 Initial Hydrostatic Pressure 30 (A) 1322 P.S.I.
 Initial Flow Period 27 Minutes (B) 245 P.S.I. to (C) 195 P.S.I.
 Initial Closed In Period 30 Minutes (D) 584 P.S.I.
 Final Flow Period 42 Minutes (E) 270 P.S.I. to (F) 192 P.S.I.
 Final Closed In Period - Minutes (G) 553 P.S.I.
 Final Hydrostatic Pressure - (H) 1310 P.S.I.

GAS FLOW REPORT

Date 9/30/81 Ticket 10346 Company George A. Reed
 Well Name and No. Penner #1 Dst No. 1 Interval Tested 2676' -2696'
 County Marion State Kansas Sec. 17 Twp. 19S Rg. 2E

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
Gas to surface in two minutes. PRE FLOW						
	15 min.	9.0PSIG	1½" orifice			754,000 CFPD
	20 min.	9.0 PSIG	1½" orifice			754,000 CFPD
	25 min.	8.5 PSIG	1½" orifice			729,000 CFPD
	30 min.	8.5 PSIG	1½" orifice			729,000 CFPD

SECOND FLOW						
	35 min.	11.0 PSIG	1½" orifice			847,000 CFPD
	40 min.	9.0 PISG	1½" orifice			777,000 CFPD
	45 min.	8.5 PSIG	1½" orifice			729,000 CFPD
	50 min.	8.0 PSIG	1½" orifice			700,000 CFPD
	55 min.	7.0 PSIG	1½" orifice			653,000 CFPD
	60 min.	7.0 PSIG	1½" orifice			653,000 CFPD
						653

GAS BOTTLE

Serial No. WTC#45 Date Bottle Filled 9/30/81 Date to be Invoiced 9/30/81

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 George A. Reed

Authorized by George A. Reed

WESTERN TESTING CO., INC.

Pressure Data

Date 9/30/81 Recorder No. 5666 Capacity 3950 Test Ticket No. 10346
 Clock No. - Elevation 1450 Kelly Bushing Location 2663 Ft. 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1322	P.S.I.	5:15A	M
B First Initial Flow Pressure	245	P.S.I.	30	30 Mins.
C First Final Flow Pressure	195	P.S.I.	30	27 Mins.
D Initial Closed-in Pressure	584	P.S.I.	30	30 Mins.
E Second Initial Flow Pressure	270	P.S.I.	45	42 Mins.
F Second Final Flow Pressure	192	P.S.I.		
G Final Closed-in Pressure	553	P.S.I.		
H Final Hydrostatic Mud	1310	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>14</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>245</u>	<u>0</u>	<u>195</u>	<u>0</u>	<u>270</u>	<u>0</u>	<u>192</u>
P 2 <u>5</u>	<u>234</u>	<u>3</u>	<u>461</u>	<u>5</u>	<u>230</u>	<u>3</u>	<u>421</u>
P 3 <u>10</u>	<u>218</u>	<u>6</u>	<u>513</u>	<u>10</u>	<u>209</u>	<u>6</u>	<u>470</u>
P 4 <u>15</u>	<u>206</u>	<u>9</u>	<u>540</u>	<u>15</u>	<u>200</u>	<u>9</u>	<u>494</u>
P 5 <u>20</u>	<u>109</u>	<u>12</u>	<u>554</u>	<u>20</u>	<u>196</u>	<u>12</u>	<u>510</u>
P 6 <u>25</u>	<u>195</u>	<u>15</u>	<u>566</u>	<u>25</u>	<u>192</u>	<u>15</u>	<u>519</u>
P 7 <u>30</u>	<u>195</u>	<u>18</u>	<u>572</u>	<u>30</u>	<u>192</u>	<u>18</u>	<u>525</u>
P 8		<u>21</u>	<u>587</u>			<u>21</u>	<u>530</u>
P 9		<u>24</u>	<u>581</u>			<u>24</u>	<u>534</u>
P10		<u>27</u>	<u>584</u>			<u>27</u>	<u>538</u>
P11						<u>30</u>	<u>541</u>
P12						<u>33</u>	<u>544</u>
P13						<u>36</u>	<u>547</u>
P14						<u>39</u>	<u>550</u>
P15						<u>42</u>	<u>553</u>
P16							
P17							
P18							
P19							
P20							

TKT # 10346
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