

TAT# 23936

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1566



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

Company Range Oil Company Lease & Well No. Andes #1
Elevation - Formation Council Grove Effective Pay - Ft. Ticket No. 23936
Date 12-4-75 Sec. 27 Twp. 33S Range 5E County Cowley State Kansas
Test Approved by Gerald Monas Western Representative Charles Branstetter

Formation Test No. 1 O.K. Misrun Interval Tested From 485' to 510' Total Depth 510'
Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 480 Ft. Size 6 3/4 Bottom Packer Depth 485 Ft. Size 6 3/4
Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
Tool Size 5/8 OD Tool Joint Size 4 1/2 FH Anchor Length 25 Ft. Size 5/8 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 502 Ft. Clock No. 6896 Depth 505 Ft. Clock No. 9103
Top Make Kuster Cap. 4300 No. 1566 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 10:20 A M
Tool Open I.F.P. From 10:30A M. to 11:00A M. - Hr. 30 Min. From (B) 57 P.S.I. To (C) 41 P.S.I.
Tool Closed I.C.I.P. From 11:00A M. to 11:30A M. - Hr. 30 Min (D) 186 P.S.I.
Tool Open F.F.P. From 11:30A M. to 12:00P M. - Hr. 30 Min. From (E) 48 P.S.I. To (F) 44 P.S.I.
Tool Closed F.C.I.P. From 12:00P M. to 1:00P M. - Hr. 60 Min. (G) 227 P.S.I.
Initial Hydrostatic Pressure (A) 230 P.S.I. Final Hydrostatic Pressure (H) 227 P.S.I. Maximum Temp. 70

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 5 minutes.

Did Well Flow Yes No Recovery Total Ft. 30' drilling mud.

Reversed Out Yes No Mud Type chem Viscosity 34 Weight 8.8 Water Loss 16 cc. Chlorides 1200 P.P.M.

EXTRA EQUIPMENT: Type pin Safety Joint Jars: Size - In. Make - Ser. No. -

Dual Packer Did Packers Hold? Did Tool Plug? no Where? -

DRILLING CONTRACTOR White & Ellis Drilling Co. Length Drill Pipe 255 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 210 Ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4H-90 In. Length D.S.T. Tool 45 Ft.

Remarks: See Attached sheet for gas measurements

WESTERN TESTING CO., INC.
Pressure Data

Date 12-4-75 Test Ticket No. 23936
 Recorder No. 1566 Capacity 4300 Location 502 Ft.
 Clock No. 6896 Elevation - Well Temperature 70 °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>230</u> P.S.I.	Open Tool	<u>10:20 AM</u>	
B. First Initial Flow Pressure	<u>57</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>41</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D. Initial Closed-in Pressure	<u>186</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E. Second Initial Flow Pressure	<u>48</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F. Second Final Flow Pressure	<u>44</u> P.S.I.			
G. Final Closed-in Pressure	<u>227</u> P.S.I.			
H. Final Hydrostatic Mud	<u>227</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	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.	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1	<u>57</u>	<u>0</u>	<u>41</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>44</u>	<u>0</u>
P 2	<u>53</u>	<u>3</u>	<u>87</u>	<u>3</u>	<u>44</u>	<u>5</u>	<u>99</u>	<u>3</u>
P 3	<u>44</u>	<u>6</u>	<u>132</u>	<u>6</u>	<u>44</u>	<u>10</u>	<u>160</u>	<u>6</u>
P 4	<u>41</u>	<u>9</u>	<u>151</u>	<u>9</u>	<u>44</u>	<u>15</u>	<u>188</u>	<u>9</u>
P 5	<u>41</u>	<u>12</u>	<u>162</u>	<u>12</u>	<u>44</u>	<u>20</u>	<u>201</u>	<u>12</u>
P 6	<u>41</u>	<u>15</u>	<u>170</u>	<u>15</u>	<u>44</u>	<u>25</u>	<u>212</u>	<u>15</u>
P 7	<u>41</u>	<u>18</u>	<u>175</u>	<u>18</u>			<u>216</u>	<u>18</u>
P 8		<u>21</u>	<u>179</u>	<u>21</u>			<u>218</u>	<u>21</u>
P 9		<u>24</u>	<u>181</u>	<u>24</u>			<u>219</u>	<u>24</u>
P10		<u>27</u>	<u>185</u>	<u>27</u>			<u>219</u>	<u>27</u>
P11		<u>30</u>	<u>186</u>	<u>30</u>			<u>220</u>	<u>30</u>
P12							<u>221</u>	<u>33</u>
P13							<u>223</u>	<u>36</u>
P14							<u>227</u>	<u>39</u>
P15							<u>227</u>	<u>42</u>
P16							<u>227</u>	<u>45</u>
P17							<u>227</u>	<u>48</u>
P18							<u>227</u>	<u>51</u>
P19							<u>227</u>	<u>54</u>
P20							<u>227</u>	<u>57</u>
							<u>227</u>	<u>60</u>

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date **12-4-75** Ticket **23936** Company **Range Oil Company**
Well Name and No. **Andes #1** Dst No. **1** Interval Tested **485' to 510'**
County **Cowley** State **Kansas** Sec. **27** Twp. **33S** Rg. **5E**

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						
10:45AM	15 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
10:55 AM	25 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
Tool opened at 10:30 A.M. in pre-flow period. Gas to surface in 6 minutes.						

SECOND FLOW						
11:35 AM	35 min.	1.5 PSIG	1/4" choke			11,020 C.F.P.D.
11:40 AM	40 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
11:45 AM	45 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
11:50 AM	50 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
12:00 PM	60 min.	1.25 PSIG	1/4" choke			10,000 C.F.P.D.
All gas measurements were taken through a 1/4" choke with a 2" merla orifice well tester.						

GAS BOTTLE

Serial No. **626** Date Bottle Filled **12-4-75** Date to be Invoiced **12-4-75**

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 **Range Oil Company**
Authorized by **Gerald D. Monas**