



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

Company Walnut Valley Oil Co., Inc. Lease & Well No. Andes #1
 Elevation 1300 Kelly Bush. Formation Layton Effective Pay - Ft. Ticket No. #24568
 Date 12-5-76 Sec. 19 Twp. 32S Range 5W County Cowley State Kansas
 Test Approved by Paul Koontz Western Representative Bill Baker
 Formation Test No. 1 O.K. Misrun Interval Tested From 2410' to 2418' Total Depth 2418'
 Size Main Hole 77/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2405 Ft. Size 6 3/4 Bottom Packer Depth 2410 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 8 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 2397 Ft. Clock No. 10167 Depth 2400 Ft. Clock No. 6896
 Top Make Kuster Cap. 3150 No. 1565 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside
 Time Set Packer 2:13 P M
 Tool Open I.F.P. From 2:15P M. to 2:30P M. - Hr. 15 Min. From (B) 45 P.S.I. To (C) 53 P.S.I.
 Tool Closed I.C.I.P. From 2:30PM. to 3:00P M. - Hr. 30 Min (D) 629 P.S.I.
 Tool Open F.F.P. From 3:00P M. to 4:00P M. - Hr. 60 Min. From (E) 82 P.S.I. To (F) 107 P.S.I.
 Tool Closed F.C.I.P. From 4:00PM. to 4:30P M. - Hr. 30 Min. (G) 592 P.S.I.
 Initial Hydrostatic Pressure (A) 1162 P.S.I. Final Hydrostatic Pressure (H) 1162 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Strong blow throughout test.
 Did Well Flow Yes No Recovery Total Ft. 120' muddy gassy salt water. 70' gas-cut drilling mud.
2035' gas in pipe.
 Reversed Out Yes No Mud Type chem Viscosity 42 Weight 9.4 Water Loss 10.8 cc. Chlorides 2400 P.P.M.
 EXTRA EQUIPMENT: Type Circ. Sub. pin Safety Joint Jars: Size 3 1/2 IF In. Make WTC Ser. No. 406
 Dual Packer Did Packers Hold? Did Tool Plug? NO Where? -
 DRILLING CONTRACTOR Triangle #1 Length Drill Pipe? 2043 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 375 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 40 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 12-5-76 Test Ticket No. #24568
 Recorder No. 1565 Capacity 3150 Location 2397 Ft.
 Clock No. 10167 Elevation 1300 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1162</u> P.S.I.	Open Tool	<u>2:13 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>45</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>53</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
D Initial Closed-in Pressure	<u>629</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>82</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>107</u> P.S.I.			
G Final Closed-in Pressure	<u>592</u> P.S.I.			
H Final Hydrostatic Mud	<u>1162</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
 Breakdown: 8 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

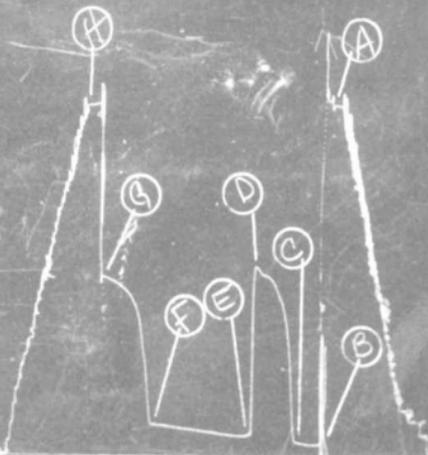
Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 10 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> 45	<u>0</u> 53	<u>0</u> 82	<u>0</u>	<u>107</u>	<u>0</u>	<u>107</u>
P 2	<u>5</u> 42	<u>3</u> 331	<u>5</u> 71	<u>3</u>	<u>273</u>	<u>3</u>	<u>273</u>
P 3	<u>10</u> 45	<u>6</u> 476	<u>10</u> 71	<u>6</u>	<u>411</u>	<u>6</u>	<u>411</u>
P 4	<u>15</u> 53	<u>9</u> 524	<u>15</u> 74	<u>9</u>	<u>495</u>	<u>9</u>	<u>495</u>
P 5		<u>12</u> 571	<u>20</u> 78	<u>12</u>	<u>528</u>	<u>12</u>	<u>528</u>
P 6		<u>15</u> 592	<u>25</u> 82	<u>15</u>	<u>547</u>	<u>15</u>	<u>547</u>
P 7		<u>18</u> 600	<u>30</u> 85	<u>18</u>	<u>561</u>	<u>18</u>	<u>561</u>
P 8		<u>21</u> 613	<u>35</u> 89	<u>21</u>	<u>574</u>	<u>21</u>	<u>574</u>
P 9		<u>24</u> 629	<u>40</u> 92	<u>24</u>	<u>582</u>	<u>24</u>	<u>582</u>
P10			<u>45</u> 96	<u>27</u>	<u>588</u>	<u>27</u>	<u>588</u>
P11			<u>50</u> 99	<u>30</u>	<u>592</u>	<u>30</u>	<u>592</u>
P12			<u>55</u> 103				
P13			<u>60</u> 107				
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #24568

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Company Walnut Valley Oil Co., Inc. Lease & Well No. Andes #1
 Elevation 1300 Kelly Bush. Formation Layton Effective Pay - Ft. Ticket No. 24569
 Date 12-6-76 Sec. 19 Twp. 32S Range 5W County Cowley State Kansas
 Test Approved by Raul D. Koontz Western Representative Bill Baker

Formation Test No. 2 O.K. Misrun Interval Tested From 2442' to 2450' Total Depth 2450'
 Size Main Hole 7 7/8 at Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 2437 Ft. Size 6 3/4 Bottom Packer Depth 2442 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 8 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2431 Ft. Clock No. 10167 Depth 2434 Ft. Clock No. 6895
 Top Make Kuster Cap. 3150 No. 1565 Inside Outside Bottom Make Kuster Cap. 3150 No. 1562 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:13A. M
 Tool Open I.F.P. From 11:15A M. to 11:30A M. - Hr. 15 Min. From (B) 4 P.S.I. To (C) 22 P.S.I.
 Tool Closed I.C.I.P. From 11:30A M. to 12:00P M. - Hr. 30 Min (D) 619 P.S.I.
 Tool Open F.F.P. From 12:00P M. to 1:00P M. - Hr. 60 Min. From (E) 60 P.S.I. To (F) 63 P.S.I.
 Tool Closed F.C.I.P. From 1:00P M. to 1:30P M. - Hr. 30 Min. (G) 522 P.S.I.
 Initial Hydrostatic Pressure (A) 1179 P.S.I. Final Hydrostatic Pressure (H) 1154 P.S.I. Maximum Temp. 100

INFORMATION

BLOW Strong blow decreasing at the end of the final flow period.
 Did Well Flow Yes No Recovery Total Ft. 120' total recovery. 60' of gas and oil cut mud, 60' of muddy, slightly oily water. 3000' of gas in pipe.

Reversed Out Yes No Mud Type Chem Viscosity 43 Weight 9.3 Water Loss 10.4 cc. Chlorides 3000 PPM

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 Triangle Drlg. Length Drill Pipe? 2090 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 XH In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 360 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4 1/2 XH In. Length D.S.T. Tool 35 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 12-6-76

Test Ticket No. #24569

Recorder No. 1565 Capacity 3150 Location 2431 Ft.

Clock No. 10167 Elevation 1300 Kelly Bushing Well Temperature 100 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1179</u> P.S.I.	Open Tool	<u>11:13 A</u> M	
B First Initial Flow Pressure	<u>4</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>619</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>50</u> Mins.
E Second Initial Flow Pressure	<u>60</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.			
G Final Closed-in Pressure	<u>522</u> P.S.I.			
H Final Hydrostatic Mud	<u>1154</u> P.S.I.			

PRESSURE BREAKDOWN

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

Initial Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 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>4</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>63</u>
P 2 <u>5</u>	<u>14</u>	<u>3</u>	<u>49</u>	<u>5</u>	<u>46</u>	<u>3</u>	<u>89</u>
P 3 <u>10</u>	<u>17</u>	<u>6</u>	<u>111</u>	<u>10</u>	<u>47</u>	<u>6</u>	<u>150</u>
P 4 <u>15</u>	<u>22</u>	<u>9</u>	<u>224</u>	<u>15</u>	<u>47</u>	<u>9</u>	<u>226</u>
P 5		<u>12</u>	<u>340</u>	<u>20</u>	<u>48</u>	<u>12</u>	<u>292</u>
P 6		<u>15</u>	<u>420</u>	<u>25</u>	<u>51</u>	<u>15</u>	<u>354</u>
P 7		<u>18</u>	<u>480</u>	<u>30</u>	<u>53</u>	<u>18</u>	<u>400</u>
P 8		<u>21</u>	<u>522</u>	<u>35</u>	<u>56</u>	<u>21</u>	<u>439</u>
P 9		<u>24</u>	<u>556</u>	<u>40</u>	<u>58</u>	<u>24</u>	<u>472</u>
P10		<u>27</u>	<u>583</u>	<u>45</u>	<u>61</u>	<u>27</u>	<u>498</u>
P11		<u>30</u>	<u>602</u>	<u>50</u>	<u>63</u>	<u>30</u>	<u>522</u>
P12		<u>33</u>	<u>619</u>				
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT #24569

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