



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

Company White & Ellis Drilling, Inc. Lease & Well No. Wentworht # 4
 Elevation 1176 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 21779
 Date 2-12-77 Sec. 4 Twp. 35S Range 2E County Summer State Kansas
 Test Approved by Paul D. Koontz Western Representative Forrest Purnell

Formation Test No. 1 O.K. Misrun Interval Tested From 3435' to 3442' Total Depth 3442'
 Size Main Hole 7⁷/₈ Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3430 Ft. Size 6³/₄ Bottom Packer Depth 3435 Ft. Size 6³/₄
 Straddle Conv. B.T. Damaged Yes No Packer Depth - Ft. Size -
 Tool Size 4¹/₂OD Tool Joint Size 3¹/₂IF Anchor Length 7 Ft. Size 4¹/₂OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 3425 AP Ft. Clock No. 8476 Depth 3438 Ft. Clock No. 6800
 Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1564 Inside Outside
 Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 6:57P M
 Tool Open I.F.P. From 7:00P M. to 7:30P M. - Hr. 30 Min. From (B) 20 P.S.I. To (C) 20 P.S.I.
 Tool Closed I.C.I.P. From 7:30P M. to 8:00P M. - Hr. 30 Min (D) 20 P.S.I.
 Tool Open F.F.P. From 8:00P M. to 8:30P M. - Hr. 30 Min. From (E) 20 P.S.I. To (F) 36 P.S.I.
 Tool Closed F.C.I.P. From 8:30P M. to 9:00P M. - Hr. 30 Min. (G) 36 P.S.I.
 Initial Hydrostatic Pressure (A) 1787 P.S.I. Final Hydrostatic Pressure (H) 1773 P.S.I. Maximum Temp. 117

INFORMATION

BLOW Very beak blow for 5 minutes then blow died, flushed tool during final flow period.
Good surge No Help.

Did Well Flow Yes No Recovery Total Ft. 10' of drilling mud

Reversed Out Yes No Mud Type Chem Viscosity 68 Weight 9.8 Water Loss 12.8 cc. Chlorides 1800P.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 White & Ellis Drlg. (Rig#2) Length Drill Pipe 3259 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4¹/₂H-90 In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2¹/₄ In.
 Tool Joint Size 4¹/₂H-90 In. Length D.S.T. Tool 33 Ft.

Remarks:
Read outside recorder # 1564

Tkt # 21779

D

B

A

G

F

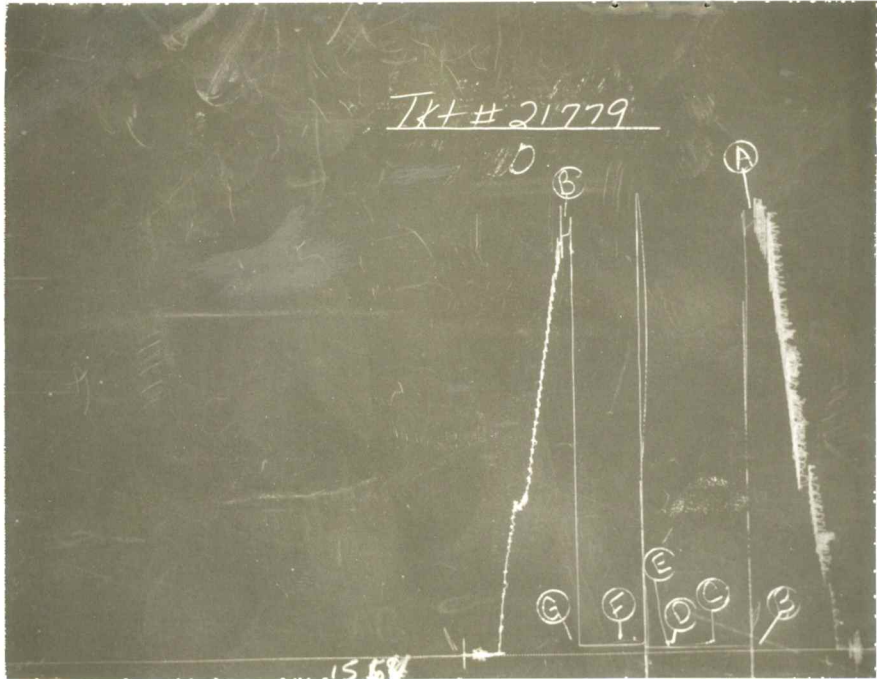
E

D

C

B

1558





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Company White & Ellis Drilling, Inc. Lease & Well No. Wentworth # 4
 Elevation 1176 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 21780
 Date 2-13-77 Sec. 4 Twp. 35S Range 2 E County Summer State Kansas
 Test Approved by Paul D. Koontz Western Representative Forrest Purnell
 Formation Test No. 2 O.K. Misrun Interval Tested From 3438' to 3452' Total Depth 3452'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3433 Ft. Size 6 3/4 Bottom Packer Depth 3438 Ft. Size 6 3/4
 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 14 Ft. Size 4 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 3443 Ft. Clock No. 8476 Depth 3437 Ft. Clock No. 6800
 Top Make Kuster Cap. 4200 No. 1558 Inside Outside Bottom Make Kuster Cap. 3150 No. 1564 Inside Outside
 Below Straddle: Depth Rec. No. Clock No. Inside Outside Depth Ft. Rec. No. Clock No. Inside Outside

Time Set Packer 6:27A M

Tool Open I.F.P. From 6:30A M. to 7:00A M. - Hr. 30 Min. From (B) 13 P.S.I. To (C) 18 P.S.
 Tool Closed I.C.I.P. From 7:00AM to 7:30A M. - Hr. 30 Min (D) 747 P.S.
 Tool Open F.F.P. From 7:30A M. to 8:30A M. - Hr. 60 Min. From (E) 29 P.S.I. To (F) 19 P.S.
 Tool Closed F.C.I.P. From 8:30AM to 9:00A M. - Hr. 30 Min. (G) 586 P.S.
 Initial Hydrostatic Pressure (A) 1789 P.S.I. Final Hydrostatic Pressure (H) 1780 P.S.I. Maximum Temp. 117

INFORMATION

BLOW Weak blow increasing in 5 minutes to a strong blow, throughout test

Did Well Flow Yes No Recovery Total Ft. 20' gas cut drilling mud 1840' Gas in pipe

Reversed Out Yes No Mud Type Chem Viscosity 68 Weight 9.8 Water Loss 12.8 cc. Chlorides 1800 P.P.M.

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

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

DRILLING CONTRACTOR White & Ellis (RIG # 2) Length Drill Pipe? 3263 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 In.
 Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 150 Ft. I.D. Drill Collars 2 1/4 In.
 Tool Joint Size 4" H-90 Length D.S.T. Tool 34 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 2-13-77

Test Ticket No. 21780

Recorder No. 1558 Capacity 4200 Location 3443 Ft.

Clock No. 8476 Elevation 1176 Kelly Bushing Well Temperature 117 °F

Point	Pressure			Time	Time
				Given	Computed
A	Initial Hydrostatic Mud	<u>1789</u>	P.S.I.	Open Tool	<u>6:27A</u> M
B	First Initial Flow Pressure	<u>13</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins. <u>30</u> Mins.
C	First Final Flow Pressure	<u>18</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins.
D	Initial Closed-in Pressure	<u>747</u>	P.S.I.	Second Flow Pressure	<u>60</u> Mins. <u>60</u> Mins.
E	Second Initial Flow Pressure	<u>29</u>	P.S.I.	Final Closed-in Pressure	<u>30</u> Mins. <u>30</u> Mins.
F	Second Final Flow Pressure	<u>19</u>	P.S.I.		
G	Final Closed-in Pressure	<u>586</u>	P.S.I.		
H	Final Hydrostatic Mud	<u>1780</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: 10 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.	Initial Shut-In		Second Flow Pressure		Final Shut-In	
		Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>0</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>29</u>	<u>0</u>	<u>19</u>
P 2	<u>5</u>	<u>3</u>	<u>153</u>	<u>5</u>	<u>21</u>	<u>3</u>	<u>76</u>
P 3	<u>10</u>	<u>6</u>	<u>287</u>	<u>10</u>	<u>17</u>	<u>6</u>	<u>156</u>
P 4	<u>15</u>	<u>9</u>	<u>386</u>	<u>15</u>	<u>18</u>	<u>9</u>	<u>228</u>
P 5	<u>20</u>	<u>12</u>	<u>479</u>	<u>20</u>	<u>19</u>	<u>12</u>	<u>302</u>
P 6	<u>25</u>	<u>15</u>	<u>558</u>	<u>25</u>	<u>19</u>	<u>15</u>	<u>359</u>
P 7	<u>30</u>	<u>18</u>	<u>616</u>	<u>30</u>	<u>19</u>	<u>18</u>	<u>416</u>
P 8		<u>21</u>	<u>666</u>	<u>35</u>	<u>19</u>	<u>21</u>	<u>466</u>
P 9		<u>24</u>	<u>700</u>	<u>40</u>	<u>19</u>	<u>24</u>	<u>508</u>
P10		<u>27</u>	<u>727</u>	<u>45</u>	<u>19</u>	<u>27</u>	<u>546</u>
P11		<u>30</u>	<u>747</u>	<u>50</u>	<u>19</u>	<u>30</u>	<u>586</u>
P12				<u>55</u>	<u>19</u>		
P13				<u>60</u>	<u>19</u>		
P14							
P15							
P16							
P17							
P18							
P19							
P20							

