

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

Company Texas Oil & Gas Corporation Lease & Well No. Lawrence "M" # 1
Elevation 1732 Kelly Bushing Formation Indian Cave Effective Pay - Ft. Ticket No. 25225
Date 1-26-77 Sec. 3 Twp. 31S Range 10 W County Barber State Kansas
Test Approved by Ronald Idom Western Representative Forrest Purnell

Formation Test No. # 1 O.K. Misrun Interval Tested From 2617' to 2665' Total Depth 2665'
Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
Top Packer Depth 2612 Ft. Size 6 3/4 Bottom Packer Depth 2617 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 48 Ft. Size 4 1/2 OD & DP Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2672 Ft. Clock No. 8476 Depth 2675 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 9:12A M
Tool Open I.F.P. From 9:15A M. to 9:45A M. - Hr. 30 Min. From (B) 371 P.S.I. To (C) 886 P.S.I.
Tool Closed I.C.I.P. From 9:45A M. to 10:45A M. - Hr. 60 Min (D) 1025 P.S.I.
Tool Open F.F.P. From 10:45A M. to 11:30A M. - Hr. 45 Min. From (E) 937 P.S.I. To (F) 1020 P.S.I.
Tool Closed F.C.I.P. From 11:30A M. to 1:00P M. - Hr. 90 Min. (G) 1028 P.S.I.
Initial Hydrostatic Pressure (A) 1319 P.S.I. Final Hydrostatic Pressure (H) 1311 P.S.I. Maximum Temp. 98

INFORMATION

BLOW Strong blwo decreasing to a weak 1/4" Blow throughout test.

Did Well Flow - Yes No Recovery Total Ft. 2100' Muddy water

Reversed Out Yes No Mud Type Starch Viscosity 36 Weight 9.3 Water Loss - cc. Chloride 60,000 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint Yes Jars: Size 3 1/2 IF In. Make WTC Ser. No. 407

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

DRILLING CONTRACTOR Xplorer Drlg. Co. Length Drill Pipe? 2702 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 FH In.

Length Weight Pipe - Ft. I.D. Weight Pipe - In. Tool Joint Size - In. Length Drill Collars 377 Ft. I.D. Drill Collars 2 1/4 In.

Tool Joint Size - In. Length D.S.T. Tool 86 Ft.

Remarks:
Read outside Recorder because final shutin was waving on inside chart.
Sample checked: 165,000 P.P.M. Chlorides
.32 Resistivity at 62 degrees F.

WESTERN TESTING CO., INC.

Pressure Data

Date 1-26-77

Test Ticket No. 25225

Recorder No. 1564

Capacity 3150

Location 2675 Ft.

Clock No. 6800

Elevation 1732 Kelly Bushing

Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>1319</u>	P.S.I.	Open Tool	<u>9:12A</u> M	
B First Initial Flow Pressure <u>371</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure <u>886</u>	P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure <u>1025</u>	P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure <u>937</u>	P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure <u>1020</u>	P.S.I.			
G Final Closed-in Pressure <u>1028</u>	P.S.I.			
H Final Hydrostatic Mud <u>1311</u>	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>30</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 0	371	0	886	0	937	0	1020
P 2 5	534	3	994	5	943	3	1023
P 3 10	644	6	1006	10	969	6	1025
P 4 15	723	9	1011	15	987	9	1025
P 5 20	780	12	1014	20	1000	12	1025
P 6 25	849	15	1015	25	1009	15	1025
P 7 30	886	18	1016	30	1014	18	1025
P 8		21	1016	35	1017	21	1025
P 9		24	1017	40	1018	24	1025
P10		27	1017	45	1020	27	1026
P11		30	1018			30	1026
P12		33	1019			33	1026
P13		36	1020			36	1026
P14		39	1020			39	1026
P15		42	1021			42	1026
P16		45	1022			45	1026
P17		48	1023			48	1026
P18		51	1023			51	1027
P19		54	1024			54	1027
P20		57	1024			57	1027
WTC - 4		60	1025			60	1027

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WESTERN TESTING CO., INC.

Pressure Data

Date 1-26-77 Test Ticket No. 25225
 Recorder No. 1564 Capacity 3150 Location 2675 Ft.
 Clock No. 6800 Elevation 1732 Kelly Bushing Well Temperature 98 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1319</u> P.S.I.	Open Tool	<u>9:12A</u> M	
B First Initial Flow Pressure	<u>371</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>886</u> P.S.I.	Initial Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>1025</u> P.S.I.	Second Flow Pressure	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>937</u> P.S.I.	Final Closed-in Pressure	<u>90</u> Mins.	<u>90</u> Mins.
F Second Final Flow Pressure	<u>1020</u> P.S.I.			
G Final Closed-in Pressure	<u>1028</u> P.S.I.			
H Final Hydrostatic Mud	<u>1311</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Initial Shut-In Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Second Flow Pressure Breakdown: <u>9</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Final Shut-In Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.
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Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>371</u>	<u>0</u>	<u>886</u>	<u>0</u>	<u>937</u>	<u>0</u>	<u>1020</u>
P 2 5	<u>534</u>	<u>3</u>	<u>994</u>	<u>5</u>	<u>943</u>	<u>3</u>	<u>1023</u>
P 3 10	<u>644</u>	<u>6</u>	<u>1006</u>	<u>10</u>	<u>969</u>	<u>6</u>	<u>1025</u>
P 4 15	<u>723</u>	<u>9</u>	<u>1011</u>	<u>15</u>	<u>987</u>	<u>9</u>	<u>1025</u>
P 5 20	<u>780</u>	<u>12</u>	<u>1014</u>	<u>20</u>	<u>1000</u>	<u>12</u>	<u>1025</u>
P 6 25	<u>849</u>	<u>15</u>	<u>1015</u>	<u>25</u>	<u>1009</u>	<u>15</u>	<u>1025</u>
P 7 30	<u>886</u>	<u>18</u>	<u>1016</u>	<u>30</u>	<u>1014</u>	<u>18</u>	<u>1025</u>
P 8		<u>21</u>	<u>1016</u>	<u>35</u>	<u>1017</u>	<u>21</u>	<u>1025</u>
P 9		<u>24</u>	<u>1017</u>	<u>40</u>	<u>1018</u>	<u>24</u>	<u>1025</u>
P10		<u>27</u>	<u>1017</u>	<u>45</u>	<u>1020</u>	<u>27</u>	<u>1026</u>
P11		<u>30</u>	<u>1018</u>			<u>30</u>	<u>1026</u>
P12		<u>33</u>	<u>1019</u>			<u>33</u>	<u>1026</u>
P13		<u>36</u>	<u>1020</u>			<u>36</u>	<u>1026</u>
P14		<u>39</u>	<u>1020</u>			<u>39</u>	<u>1026</u>
P15		<u>42</u>	<u>1021</u>			<u>42</u>	<u>1026</u>
P16		<u>45</u>	<u>1022</u>			<u>45</u>	<u>1026</u>
P17		<u>48</u>	<u>1023</u>			<u>48</u>	<u>1026</u>
P18		<u>51</u>	<u>1023</u>			<u>51</u>	<u>1027</u>
P19		<u>54</u>	<u>1024</u>			<u>54</u>	<u>1027</u>
P20		<u>57</u>	<u>1024</u>			<u>57</u>	<u>1027</u>
WTC - 4		<u>60</u>	<u>1025</u>			<u>60</u>	<u>1027</u>

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Location 2675 Ft.

Clock No. 6800 Elevation 1732 Kelly Bushing

Well Temperature 98 °F

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H Final Hydrostatic Mud	<u>1311</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

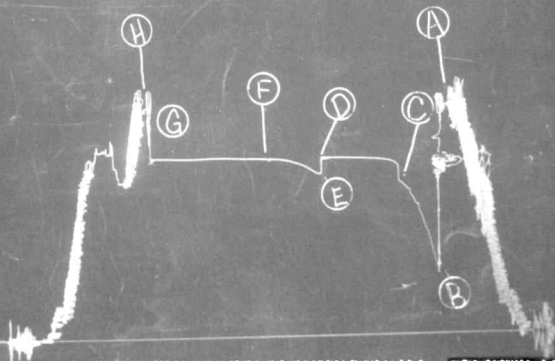
Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 30 Inc.
of 3 mins. and a
final inc. of 0 Min.

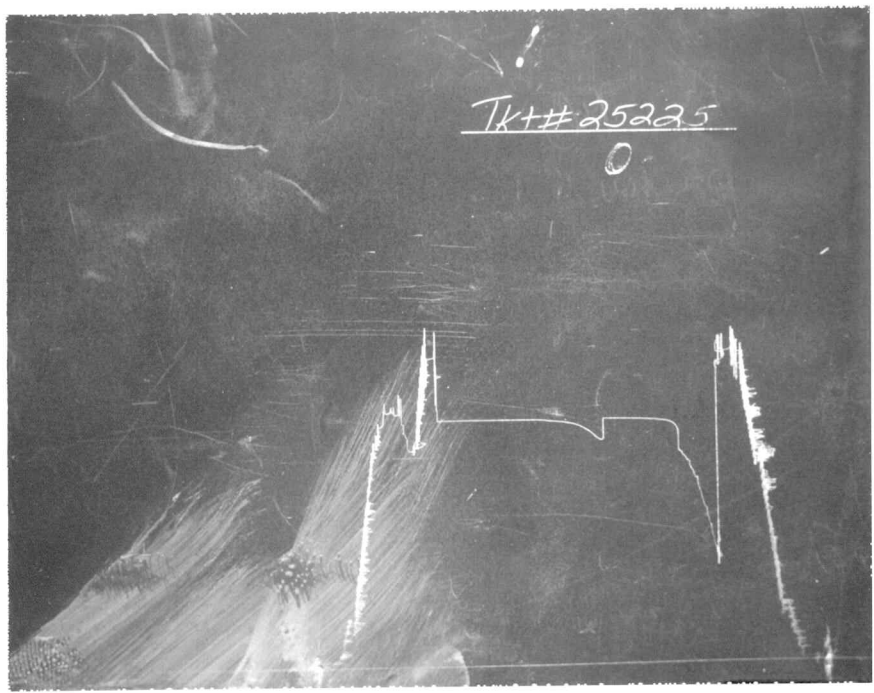
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1027
P 2						66	1028
P 3						69	1028
P 4						72	1028
P 5						75	1028
P 6						78	1028
P 7						81	1028
P 8						84	1028
P 9						87	1028
P10						90	1028
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

Tkt #25225

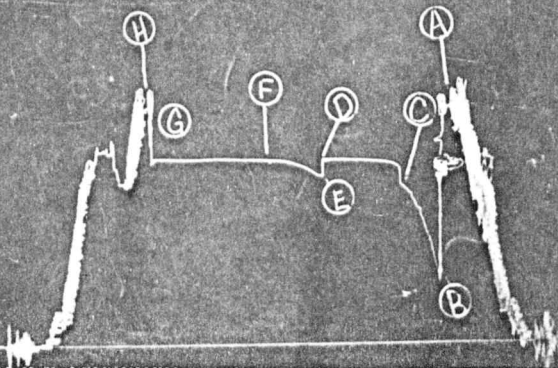


TK#25225

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Tkt #25225



TK#25225

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