





Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Graham-Michaelis Drilling Inc. Lease & Well No. Murray-Crawford 1-16
Elevation 2134 Ground Level Formation Mississippian Effective Pay _____ Ft. Ticket No. 15066
Date 9-24-70 Sec. 16 Twp. 31 Range 18 County Comanche State Kansas
Test Approved by John L. James Western Representative Leon Elmore

Formation Test No. 1 O.K. Misrun _____ Interval Tested From 5040' to 5090' Total Depth 5090'
Size Main Hole 7 7/8 Rat Hole _____ Conv. B.T. _____ Damaged Yes No Conv. _____ B.T. _____ Damaged Yes _____ No
Packer Depth 5035 Ft. Size 6 3/4" Packer Depth 5040 Ft. Size 6 3/4"
Straddle Yes _____ No Conv. _____ B.T. _____ Damaged Yes _____ No

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 50 Ft. Size 33'-D.C. 17'-5 1/2

RECORDERS Depth 5045 Ft. Clock No. 6866 Depth 5048 Ft. Clock No. 8377
Top Make Kuster Cap. 4500 No. 3085 Inside Outside Bottom Make Kuster Cap. 4400 No. 2603 Inside Outside
Below Straddle: Depth _____ Clock No. _____ Inside Outside Depth _____ Ft. Clock No. _____ Inside Outside
Top Make _____ Cap. _____ No. _____ Inside Outside Bottom Make _____ Cap. _____ No. _____ Inside Outside

Time Set Packer 4:21 A. M.
Tool Open I.F.P. From 4:24 M. to 4:34A. M. Hr. 70 Min. From (B) 81 P.S.I. To (C) 160 P.S.I.
Tool Closed I.C.I.P. From 4:34 M. to 5:04A. M. Hr. 30 Min. (D) 1534 P.S.I.
Tool Open F.F.P. From 5:04 M. to 6:34A. M. Hr. 90 Min. From (E) 210 P.S.I. To (F) 330 P.S.I.
Tool Closed F.C.I.P. From 6:34 M. to 7:14A. M. Hr. 45 Min. (G) 1349 P.S.I.
Initial Hydrostatic Pressure (A) 2796 P.S.I. Final Hydrostatic Pressure (H) 2781 P.S.I.

SURFACE Size Choke 3/4 In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____

BLOW Good thru out test Bottom Choke Size 3/4 In.
Did Well Flow Yes No _____ Recovery Total Ft. 150 feet oil & gas cut mud - 650 feet oil cut salt water
2175 feet gas in pipe

Reversed Out Yes No _____ Mud Type Starch Viscosity 46 Weight 9.1 Water Loss 3.2 cc. Maximum Temp. 122 °F
Type Circ. Sub. Plug Did Tool Plug? No Jars: Size 4 1/2 O.D. Make WTC Ser. No. 410

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint Yes Did Packer Hold? Yes Where? _____
Length Drill Pipe 4500 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 548 ft.
I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 43 ft.

Remarks _____

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WESTERN TESTING CO., INC.
Pressure Data

Date 9-24-70 Test Ticket No. 15066
 Recorder No. 3085 Capacity 4500 Location 5045 Ft.
 Clock No. 6866 Elevation 2134 Ground Level Well Temperature 122 °F

Point	Pressure		Time	
			Given	Computed
A Initial Hydrostatic Mud	2796	P.S.I.	4:21	
B First Initial Flow Pressure	81	P.S.I.	10	10
C First Final Flow Pressure	160	P.S.I.	30	30
D Initial Closed-in Pressure	1534	P.S.I.	90	90
E Second Initial Flow Pressure	210	P.S.I.	45	44
F Second Final Flow Pressure	330	P.S.I.		
G Final Closed-in Pressure	1349	P.S.I.		
H Final Hydrostatic Mud	2781	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 2 Inc.
 of 5 mins. and a
 final inc. of Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of Min.

Second Flow Pressure
 Breakdown: 18 Inc.
 of 5 mins. and a
 final inc. of Min.

Final Shut-In
 Breakdown: 14 Inc.
 of 3 mins. and a
 final inc. of 2 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>81</u>	<u>0</u>	<u>160</u>	<u>0</u>	<u>210</u>	<u>0</u>	<u>330</u>
P 2 <u>5</u>	<u>131</u>	<u>3</u>	<u>370</u>	<u>5</u>	<u>195</u>	<u>3</u>	<u>562</u>
P 3 <u>10</u>	<u>160</u>	<u>6</u>	<u>718</u>	<u>10</u>	<u>198</u>	<u>6</u>	<u>734</u>
P 4		<u>9</u>	<u>974</u>	<u>15</u>	<u>205</u>	<u>9</u>	<u>876</u>
P 5		<u>12</u>	<u>1200</u>	<u>20</u>	<u>217</u>	<u>12</u>	<u>965</u>
P 6		<u>15</u>	<u>1319</u>	<u>25</u>	<u>229</u>	<u>15</u>	<u>1039</u>
P 7		<u>18</u>	<u>1397</u>	<u>30</u>	<u>239</u>	<u>18</u>	<u>1094</u>
P 8		<u>21</u>	<u>1451</u>	<u>35</u>	<u>248</u>	<u>21</u>	<u>1143</u>
P 9		<u>24</u>	<u>1484</u>	<u>40</u>	<u>258</u>	<u>24</u>	<u>1184</u>
P10		<u>27</u>	<u>1511</u>	<u>45</u>	<u>265</u>	<u>27</u>	<u>1217</u>
P11		<u>30</u>	<u>1534</u>	<u>50</u>	<u>274</u>	<u>30</u>	<u>1249</u>
P12				<u>55</u>	<u>282</u>	<u>33</u>	<u>1279</u>
P13				<u>60</u>	<u>291</u>	<u>36</u>	<u>1302</u>
P14				<u>65</u>	<u>298</u>	<u>39</u>	<u>1323</u>
P15				<u>70</u>	<u>303</u>	<u>42</u>	<u>1339</u>
P16				<u>75</u>	<u>312</u>	<u>44</u>	<u>1349</u>
P17				<u>80</u>	<u>317</u>		
P18				<u>85</u>	<u>325</u>		
P19				<u>90</u>	<u>330</u>		
P20							

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