



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

Company **Graves Drilling Co.** Lease & Well No. **Killingsworth #1**
Elevation **1443 Kelly Bush.** Formation **Mississippi** Effective Pay **-** Ft. Ticket No. **24206**
Date **6-19-75** Sec. **1** Twp. **29S** Range **6W** County **Kingman** State **Kansas**
Test Approved by **Fredrick W. Stump** Western Representative **Forrest Purnell**
Formation Test No. **1** O.K. ☒ Misrun ☐ Interval Tested From **3907'** to **3929'** Total Depth **3929'**
Size Main Hole **7 7/8** Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☒ B.T. ☐ Damaged ☐ Yes ☒ No
Top Packer Depth **3901** Ft. Size **6 3/4** Bottom Packer Depth **3906** 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 **22** Ft. Size **5 1/2 OD** Surface Choke Size **3/4** In. Bottom Choke Size **3/4** In.
RECORDERS Depth **3921** Ft. Clock No. **6800** Depth **3924** Ft. Clock No. **6859**
Top Make **Kuster** Cap. **4200** No. **1559** Inside ☐ Outside ☐ Bottom Make **Kuster** Cap. **3150** No. **1565** Inside ☐ Outside ☐
Below Straddle: Depth ☐ Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐ Depth ☐ Ft. Rec. No. ☐ Clock No. ☐ Inside ☐ Outside ☐
Time Set Packer **6:55 A** M
Tool Open I.F.P. From **7:00A** M. to **7:15A** M. - Hr. **15** Min. From (B) **38** P.S.I. To (C) **31** P.S.I.
Tool Closed I.C.I.P. From **7:15A** M. to **8:00A** M. - Hr. **45** Min (D) **1278** P.S.I.
Tool Open F.F.P. From **8:00A** M. to **9:00A** M. - Hr. **60** Min. From (E) **46** P.S.I. To (F) **59** P.S.I.
Tool Closed F.C.I.P. From **9:00A** M. to **9:45A** M. - Hr. **45** Min. (G) **1105** P.S.I.
Initial Hydrostatic Pressure (A) **1975** P.S.I. Final Hydrostatic Pressure (H) **1958** P.S.I. Maximum Temp. **126**

INFORMATION

BLOW **Strong blow throughout test. Gas to surface in 13 minutes.**
Did Well Flow **Gas** Yes ☒ No ☐ Recovery Total Ft. **65' slightly watery drilling mud, 60' muddy water.**
Reversed Out ☐ Yes ☒ No ☐ Mud Type **Starch** Viscosity **47** Weight **9.1** Water Loss **10.0** cc. Chlorides **62,000 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 **Graves Drilling Co.** Length Drill Pipe? **3798** 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 **88** Ft. I.D. Drill Collars **2 1/4** In.
Tool Joint Size **4 1/2 FH-90** In. Length D.S.T. Tool **43** Ft.
Remarks:



U.S. COAST GUARD
OFFICE OF THE DISTRICT COMMANDER
NEW YORK, N.Y. 10005

11/11/1964

URGENT 11/11/64

TO: NEW YORK, N.Y. (100-100000)

FROM: NEW YORK, N.Y. (100-100000)

SUBJECT: [Illegible]

RE: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

5. [Illegible]

6. [Illegible]

7. [Illegible]

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13. [Illegible]

14. [Illegible]

15. [Illegible]

16. [Illegible]

17. [Illegible]

18. [Illegible]

19. [Illegible]

20. [Illegible]

21. [Illegible]

22. [Illegible]

23. [Illegible]

24. [Illegible]

25. [Illegible]

26. [Illegible]

27. [Illegible]

28. [Illegible]

29. [Illegible]

30. [Illegible]

WESTERN TESTING CO., INC.

Pressure Data

Date 6-19-75 Test Ticket No. 24206
 Recorder No. 1559 Capacity 4200 Location 3921 Ft.
 Clock No. 6800 Elevation 1443 Kelly Bushing Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1975</u> P.S.I.	Open Tool	<u>6:55 A</u> M	
B First Initial Flow Pressure	<u>38</u> P.S.I.	First Flow Pressure	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>31</u> P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1278</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>46</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>59</u> P.S.I.			
G Final Closed-in Pressure	<u>1105</u> P.S.I.			
H Final Hydrostatic Mud	<u>1958</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>1115</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 <u>0</u>	<u>38</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>46</u>	<u>0</u>	<u>59</u>
P 2 <u>5</u>	<u>31</u>	<u>3</u>	<u>475</u>	<u>5</u>	<u>31</u>	<u>3</u>	<u>345</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>727</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>527</u>
P 4 <u>15</u>	<u>31</u>	<u>9</u>	<u>889</u>	<u>15</u>	<u>32</u>	<u>9</u>	<u>664</u>
P 5		<u>12</u>	<u>1013</u>	<u>20</u>	<u>36</u>	<u>12</u>	<u>768</u>
P 6		<u>15</u>	<u>1092</u>	<u>25</u>	<u>38</u>	<u>15</u>	<u>847</u>
P 7		<u>18</u>	<u>1138</u>	<u>30</u>	<u>42</u>	<u>18</u>	<u>906</u>
P 8		<u>21</u>	<u>1173</u>	<u>35</u>	<u>44</u>	<u>21</u>	<u>950</u>
P 9		<u>24</u>	<u>1201</u>	<u>40</u>	<u>48</u>	<u>24</u>	<u>987</u>
P10		<u>27</u>	<u>1222</u>	<u>45</u>	<u>50</u>	<u>27</u>	<u>1013</u>
P11		<u>30</u>	<u>1236</u>	<u>50</u>	<u>52</u>	<u>30</u>	<u>1033</u>
P12		<u>33</u>	<u>1249</u>	<u>55</u>	<u>56</u>	<u>33</u>	<u>1054</u>
P13		<u>36</u>	<u>1257</u>	<u>60</u>	<u>59</u>	<u>36</u>	<u>1071</u>
P14		<u>39</u>	<u>1265</u>			<u>39</u>	<u>1084</u>
P15		<u>42</u>	<u>1274</u>			<u>42</u>	<u>1094</u>
P16		<u>45</u>	<u>1278</u>			<u>45</u>	<u>1105</u>
P17							
P18							
P19							
P20							

Phone 316 262-5861
316 838-0601



P. O. Box 1599
WICHITA, KANSAS 67201

GAS FLOW REPORT

Date **6-19-75** Ticket **24206** Company **Graves Drilling Co.**
Well Name and No. **Killingsworth #1** Dst No. **1** Interval Tested **3907'-3929'**
County **Kingman** State **Kansas** Sec. **1** Twp. **29S** Rg. **6W**

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						
No readings on pre-flow.						

SECOND FLOW						
8:00 AM		9 " of water	3/4" choke			42,500 C.F.P.D.
8:10 AM	10 min.	8" of water	3/4" choke			40,000 C.F.P.D.
8:20 AM	10 min.	7.5" of water	3/4" choke			38,500 C.F.P.D.
8:30 AM	10 min.	7 " of water	3/4" choke			37,400 C.F.P.D.
8:40 AM	10 min.	7 " of water	3/4" choke			37,400 C.F.P.D.
8:50 AM	10 min.	6.5" of water	3/4" choke			36,100 C.F.P.D.
Tool opened at 8:00 AM on second flow. All measurements were taken through a 2" merla orifice well tester through a 3/4" choke at 10 minutes intervals. Gas to surface in 13 minutes.						

GAS BOTTLE

Serial No. _____ Date Bottle Filled **6-19-75** Date to be Invoiced **6-19-75**

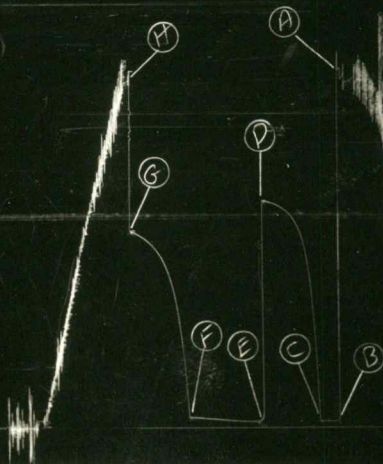
Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By 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 **Graves Drilling Co.**
Authorized by **Fredrick W. Stump**

TAT # 24206

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

Company Graves Drilling Co. Lease & Well No. Killingworth #1
Elevation 1443 Kelly Bush. Formation Mississippi Effective Pay - Ft. Ticket No. 24207
Date 6-19-75 Sec. 1 Twp. 29S Range 6W County Kingman State Kansas
Test Approved by Fredrick W. Stump Western Representative Forrest Purnell
Formation Test No. 2 O.K. X Misrun - Interval Tested From 3930' to 3944' Total Depth 3944'
Size Main Hole 7 7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No
Top Packer Depth 3924 Ft. Size 6 3/4 Bottom Packer Depth 3929 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 14 Ft. Size 5 1/2 OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
RECORDERS Depth 3937 Ft. Clock No. 6800 Depth 3940 Ft. Clock No. 6859
Top Make Kuster Cap. 4200 No. 1559 Inside - Outside - Bottom Make Kuster Cap. 3150 No. 1565 Inside - Outside -
Below Straddle: Depth - Rec. No. - Clock No. - Inside - Outside - Depth - Ft. Rec. No. - Clock No. - Inside - Outside -
Time Set Packer 8:25 P M
Tool Open I.F.P. From 8:30P M. to 8:45P M. - Hr. 15 Min. From (B) 37 P.S.I. To (C) 38 P.S.I.
Tool Closed I.C.I.P. From 8:45P M. to 9:30P M. - Hr. 45 Min (D) 1330 P.S.I.
Tool Open F.F.P. From 9:30P M. to 10:30P M. - Hr. 60 Min. From (E) 63 P.S.I. To (F) 100 P.S.I.
Tool Closed F.C.I.P. From 10:30P M. to 11:15P M. - Hr. 45 Min. (G) 1274 P.S.I.
Initial Hydrostatic Pressure (A) 2000 P.S.I. Final Hydrostatic Pressure (H) 1970 P.S.I. Maximum Temp. 128

INFORMATION

BLOW Strong blow throughout test. Gas to surface in 45 minutes. (Too small to measure).

Did Well Flow - Yes X No Recovery Total Ft. 245' water.

Reversed Out - Yes X No Mud Type Starch Viscosity 60 Weight 9.3 Water Loss 9.0 cc. Chlorides 60,000 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 Graves Drilling Co. Length Drill Pipe? 3829 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 86 Ft. I.D. Drill Collars 2 1/2 In.

Tool Joint Size 4 1/2 H-90 In. Length D.S.T. Tool 36 Ft.

Remarks:

WESTERN TESTING CO., INC.

Pressure Data

Date 6-19-75 Recorder No. 1559 Capacity 4200 Test Ticket No. 24207
 Clock No. 6800 Elevation 1443 Kelly Bushing Location 3937 Ft.
 Well Temperature 128 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2000</u>	P.S.I.	<u>8:25 P</u>	<u>M</u>
B First Initial Flow Pressure	<u>37</u>	P.S.I.	<u>15</u> Mins.	<u>15</u> Mins.
C First Final Flow Pressure	<u>38</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>1330</u>	P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>63</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>100</u>	P.S.I.		
G Final Closed-in Pressure	<u>1274</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1979</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
Breakdown: <u>3</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</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.	
P 1 <u>0</u>	<u>37</u>	<u>0</u>	<u>38</u>	<u>0</u>	<u>63</u>	<u>0</u>	<u>100</u>
P 2 <u>5</u>	<u>29</u>	<u>3</u>	<u>359</u>	<u>5</u>	<u>54</u>	<u>3</u>	<u>426</u>
P 3 <u>10</u>	<u>31</u>	<u>6</u>	<u>633</u>	<u>10</u>	<u>56</u>	<u>6</u>	<u>700</u>
P 4 <u>15</u>	<u>38</u>	<u>9</u>	<u>847</u>	<u>15</u>	<u>61</u>	<u>9</u>	<u>881</u>
P 5		<u>12</u>	<u>1038</u>	<u>20</u>	<u>65</u>	<u>12</u>	<u>992</u>
P 6		<u>15</u>	<u>1157</u>	<u>25</u>	<u>69</u>	<u>15</u>	<u>1065</u>
P 7		<u>18</u>	<u>1215</u>	<u>30</u>	<u>73</u>	<u>18</u>	<u>1119</u>
P 8		<u>21</u>	<u>1251</u>	<u>35</u>	<u>79</u>	<u>21</u>	<u>1155</u>
P 9		<u>24</u>	<u>1274</u>	<u>40</u>	<u>84</u>	<u>24</u>	<u>1186</u>
P10		<u>27</u>	<u>1291</u>	<u>45</u>	<u>88</u>	<u>27</u>	<u>1207</u>
P11		<u>30</u>	<u>1301</u>	<u>50</u>	<u>92</u>	<u>30</u>	<u>1224</u>
P12		<u>33</u>	<u>1311</u>	<u>55</u>	<u>98</u>	<u>33</u>	<u>1238</u>
P13		<u>36</u>	<u>1318</u>	<u>60</u>	<u>100</u>	<u>36</u>	<u>1249</u>
P14		<u>39</u>	<u>1322</u>			<u>39</u>	<u>1257</u>
P15		<u>42</u>	<u>1326</u>			<u>42</u>	<u>1268</u>
P16		<u>45</u>	<u>1330</u>			<u>45</u>	<u>1274</u>
P17							
P18							
P19							
P20							

TAT # 24207

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