

15-185-00746-0001



16-22s-14w

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

Company **Monarch Oil Co.** Lease & Well No. **Dralle A-2**

Elevation **1945 Kelly Bushings** Formation **Simpson** Effective Pay **-----** Ft. Ticket No. **10006**

Date **9-24-67** Sec. **16** Twp. **22** Range **14** County **Stafford** State **Kansas**

Test Approved by **Robert L. Williams Jr.** Western Representative **W. M. Nething**

Formation Test No. **1** O.K. ☐ Misrun ☐ Interval Tested From **3795'** to **3859'** Total Depth **3925'**

Size Main Hole **7 7/8** Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No

Packer Depth **3795** Ft. Size **6 3/4** Packer Depth ☐ Ft. Size ☐

Straddle ☒ Yes ☐ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No

Packer Depth **3859** Ft. Size **6 3/4**

Tool Size **5 1/2" OD** Tool Jt. Size **4 1/2" F.H.** Anchor Length **64** Ft. Size **5 1/2" OD & Wt.P.**

RECORDERS	Depth	Ft.	Clock No.	Depth	Ft.	Clock No.
Top Make Amerada Cap. 4150 No. 2604 Inside ☒ Outside ☐	3805		6800	3808		4964
Bottom Make Amerada Cap. 4250 No. 1051 Inside ☒ Outside ☐						
Below Straddle: Depth 3861 Clock No. 102 Inside ☐ Outside ☐				3863		127
Top Make WTC Cap. 4000 No. 9. Inside ☐ Outside ☐				Bottom Make WTC Cap. 4000 No. 10. Inside ☐ Outside ☐		

Time Set Packer **1:55 A.** M

Tool Open I.F.P. From **1:57** M. to **2:27 a** M. Hr. **30** Min. From (B) **21** P.S.I. To (C) **63** P.S.I.

Tool Closed I.C.I.P. From **2:27** M. to **2:57 a** M. Hr. **30** Min. (D) **149** P.S.I.

Tool Open F.F.P. From **2:57** M. to **3:27 a** M. Hr. **30** Min. From (E) **21** P.S.I. To (F) **53** P.S.I.

Tool Closed F.C.I.P. From **3:27** M. to **3:57 a** M. Hr. **30** Min. (G) **96** P.S.I.

Initial Hydrostatic Pressure (A) **2042** P.S.I. Final Hydrostatic Pressure (H) **2021** P.S.I.

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

INFORMATION ☐ M. ☐ M. ☐ M.

BLOW **Weak blow eleven minutes.** Bottom Choke Size **3/4** In.

Did Well Flow ☒ Yes ☐ No Recovery Total Ft. **Three feet drilling mud and shale.**

Reversed Out ☒ Yes ☐ No Mud Type **starch** Viscosity **51** Weight **9.5** Water Loss **11.2** cc. Maximum Temp. **105** °F

EXTRA EQUIPMENT: Dual Packers **no** Safety Joint ☐ Jars: Size ☐ Make ☐ Ser. No. ☐

Type Circ. Sub. **plug** Did Tool Plug? **See remarks** Where? ☐ Did Packer Hold? ☐

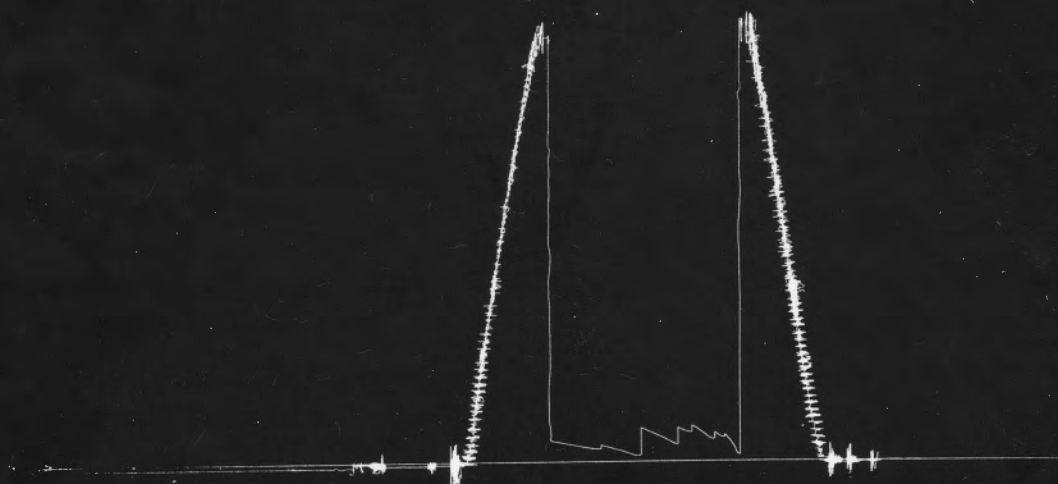
Length Drill Pipe **2800** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **975** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars ☐ ft.

I. D. Drill Collars ☐ in. Length D.S.T. Tool **150** ft.

Remarks **No break down due to plugging action.**

Monarch Oil Co.
Dralle A-2

TKT-10006
Test #1



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2042	PSI
(B) First Initial Flow Pressure	21	PSI
(C) First Final Flow Pressure	63	PSI
(D) Initial Closed-in Pressure	149	PSI
(E) Second Initial Flow Pressure	21	PSI
(F) Second Final Flow Pressure	53	PSI
(G) Final Closed-in Pressure	96	PSI
(H) Final Hydrostatic Mud	2021	PSI



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P. O. Box 793

(316) 793-7903

Company **Monarch Oil Co.** Lease & Well No. **Dralle A#2**
Elevation **1945 Kelly Bushings** Formation **Kansas City** Effective Pay **-----** Ft. Ticket No. **10007**
Date **9-25-67** Sec. **16** Twp. **22** Range **14** County **Stafford** State **Kansas**
Test Approved by **Clarence Michael** Western Representative **W. M. Nething**

Formation Test No. **2** O.K. ☒ Misrun Interval Tested From **3573'** to **3610'** Total Depth **3925'**
Size Main Hole **7 7/8** Rat Hole Conv. B.T. ☒ Damaged Yes ☒ No Conv. B.T. Damaged Yes No
Packer Depth **3573** Ft. Size **6 3/4** Packer Depth Ft. Size
Straddle ☒ Yes No Conv. B.T. ☒ Damaged Yes ☒ No

Packer Depth **3610** Ft. Size **6 3/4**
Tool Size **5 1/2" OD** Tool Jt. Size **4 1/2" F.H.** Anchor Length **37** Ft. Size **5 1/2" OD**

RECORDERS	Depth 3588	Ft.	Clock No. 6800	Depth 3591	Ft.	Clock No. 4964
	Top Make Amerada	Cap. 4150	No. 2604	Bottom Make Amerada	Cap. 4250	No. 1051
	Below Straddle: Depth 3616	Clock No. 102		Depth 3619	Ft.	Clock No. 127
	Top Make WTC	Cap. 4000	No. 9	Bottom Make WTC	Cap. 4000	No. 10

Time Set Packer **1:02 P.** M
Tool Open I.F.P. From **1:05** M. to **1:35 P.** Hr. **30** Min. From (B) **48** P.S.I. To (C) **50** P.S.I.
Tool Closed I.C.I.P. From **1:35** M. to **2:05 P.** Hr. **30** Min. (D) **65** P.S.I.
Tool Open F.F.P. From **2:05** M. to **4:15 P.** **2** Hr. **10** Min. From (E) **55** P.S.I. To (F) **40** P.S.I.
Tool Closed F.C.I.P. From **4:15** M. to **4:45 P.** Hr. **30** Min. (G) **45** P.S.I.
Initial Hydrostatic Pressure (A) **1891** P.S.I. Final Hydrostatic Pressure (H) **1868** P.S.I.

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

BLOW **Weak blow thirteen minutes, flushed tool, weak blow seven minutes.** Bottom Choke Size **3/4** In.
Did Well Flow Yes ☒ No Recovery Total Ft. **15 feet mud with few specks oil on top tool.**

Reversed Out Yes ☒ No Mud Type **starch** Viscosity **45** Weight **9.7** Water Loss **14** cc. Maximum Temp. °F
EXTRA EQUIPMENT: Dual Packers **no** Safety Joint Jars: Size Make Ser. No.
Type Circ. Sub. **plug** Did Tool Plug? **no** Where? Did Packer Hold? **yes**
Length Drill Pipe **2492** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **1066** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars ft.
I. D. Drill Collars in. Length D.S.T. Tool **62** ft.

Remarks

WESTERN TESTING CO., INC.

Pressure Data

Date 9-25-67 Test Ticket No. 10007
 Recorder No. 2604 Capacity 4150 Location 3588 Ft.
 Clock No. 6800 Elevation 1945 Kelly Bushings Well Temperature _____ °F

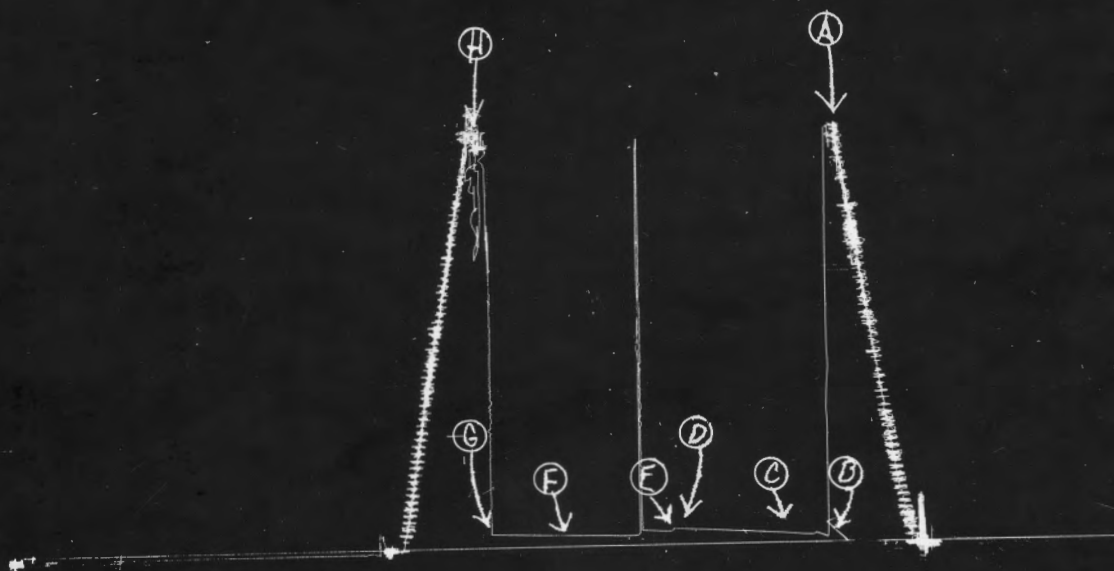
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1891</u> P.S.I.	Opened Tool	<u>1:02 P.</u> M	
B First Initial Flow Pressure	<u>48</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>50</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>65</u> P.S.I.	Second Flow Pressure	<u>130</u> Mins.	<u>129</u> Mins.
E Second Initial Flow Pressure	<u>55</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>40</u> P.S.I.			
G Final Closed-in Pressure	<u>45</u> P.S.I.			
H Final Hydrostatic Mud	<u>1868</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>25</u> Inc.		Breakdown: <u>10</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>--</u> Min.		final inc. of <u>--</u> Min.		final inc. of <u>4</u> Min.		final inc. of <u>--</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>48</u>	<u>0</u>	<u>50</u>	<u>0</u>	<u>55</u>	<u>0</u>	<u>40</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>51</u>	<u>5</u>	<u>55</u>	<u>3</u>	<u>40</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>52</u>	<u>10</u>	<u>55</u>	<u>6</u>	<u>40</u>
P 4 <u>15</u>	<u>49</u>	<u>9</u>	<u>52</u>	<u>15</u>	<u>55</u>	<u>9</u>	<u>40</u>
P 5 <u>20</u>	<u>49</u>	<u>12</u>	<u>52</u>	<u>20</u>	<u>55</u>	<u>12</u>	<u>40</u>
P 6 <u>25</u>	<u>49</u>	<u>15</u>	<u>53</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>40</u>
P 7 <u>30</u>	<u>50</u>	<u>18</u>	<u>56</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>40</u>
P 8		<u>21</u>	<u>61</u>	<u>35</u>	<u>40</u>	<u>21</u>	<u>41</u>
P 9		<u>24</u>	<u>63</u>	<u>40</u>	<u>40</u>	<u>24</u>	<u>43</u>
P10		<u>27</u>	<u>63</u>	<u>45</u>	<u>40</u>	<u>27</u>	<u>45</u>
P11		<u>30</u>	<u>65</u>	<u>50</u>	<u>40</u>	<u>30</u>	<u>45</u>
P12				<u>55</u>	<u>40</u>		
P13				<u>60</u>	<u>40</u>		
P14				<u>65</u>	<u>40</u>		
P15				<u>70</u>	<u>40</u>		
P16				<u>75</u>	<u>40</u>		
P17				<u>80</u>	<u>40</u>		
P18				<u>85</u>	<u>40</u>		
P19				<u>90</u>	<u>40</u>		
P20				<u>95</u>	<u>40</u>		
				<u>100</u>	<u>40</u>		
				<u>105</u>	<u>40</u>		
				<u>110</u>	<u>40</u>		
				<u>115</u>	<u>40</u>		
				<u>120</u>	<u>40</u>		
				<u>125</u>	<u>40</u>		
				<u>129</u>	<u>40</u>		

Monarch Oil Co.
Drille #A-2

TKT-10007
Test #2



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1895	1891 1896
(B) First Initial Flow Pressure	31	48 PSI
(C) First Final Flow Pressure	31	50 PSI
(D) Initial Closed-in Pressure	64	65 PSI
(E) Second Initial Flow Pressure	31	55 PSI
(F) Second Final Flow Pressure	42	40 PSI
(G) Final Closed-in Pressure	53	45 PSI
(H) Final Hydrostatic Mud	1874	1868 PSI

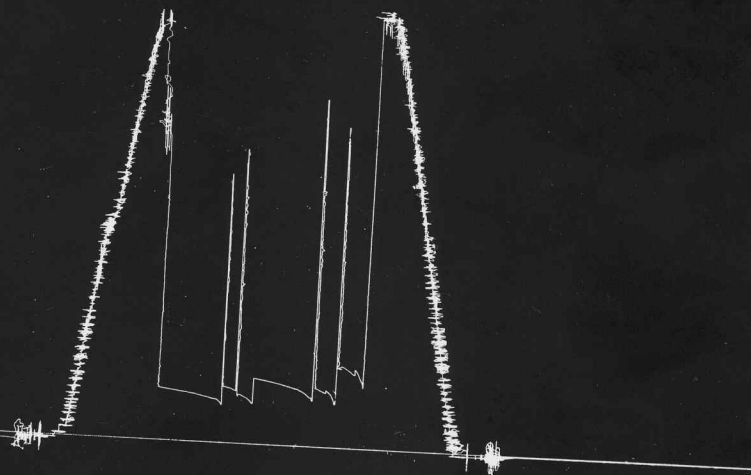


Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company Monarch Oil Co. Lease & Well No. Dralle A#2
Elevation 1945 Kelly Bushings Formation Kansas City Effective Pay ----- Ft. Ticket No. 10008
Date 9-25-67 Sec. 16 Twp. 22 Range 14 County Stafford State Kansas
Test Approved by George R. Callaway Western Representative W. M. Nething
Formation Test No. 3 O.K. Misrun X Interval Tested From 3681' to 3720' Total Depth 3925'
Size Main Hole 7 7/8 Rat Hole Conv. X B.T. Damaged Yes X No Conv. B.T. X Damaged X Yes No
Packer Depth 3681 Ft. Size 6 3/4 Packer Depth 3676 Ft. Size 6 3/4
Straddle X Yes No Conv. B.T. X Damaged Yes X No
Packer Depth 3720 Ft. Size 6 3/4
Tool Size 5 1/2" OD Tool Jt. Size 4 1/2" F.H. Anchor Length 39 Ft. Size 5 1/2" OD
RECORDERS Depth 3700 Ft. Clock No. 6800 Depth 3703 Ft. Clock No. 4964
Top Make Amerada Cap. 4150 No. 2604 Inside Outside Bottom Make Amerada Cap. 4250 No. 1051 Inside Outside
Below Straddle: Depth 3726 Clock No. 102 Inside Outside Depth 3729 Ft. Clock No. 127 Inside Outside
Top Make W.T.C. Cap. 4000 No. 9 Inside Outside Bottom Make W.T.C. Cap. 4000 No. 10 Inside Outside
Time Set Packer 8:06 P. M
Tool Open I.F.P. From 8:09 M. to 8:49 p M. Hr. 40 Min. From (B) P.S.I. To (C) P.S.I.
Tool Closed I.C.I.P. From 8:49 M. to 9:19 p M. Hr. 30 Min. (D) P.S.I.
Tool Open F.F.P. From 9:19 p M. to 9:49 p M. Hr. 30 Min. From (E) P.S.I. To (F) P.S.I.
Tool Closed F.C.I.P. From 9:49 M. to 10:19 p M. Hr. 30 Min. (G) P.S.I.
Initial Hydrostatic Pressure (A) P.S.I. Final Hydrostatic Pressure (H) P.S.I.
SURFACE Size Choke 3/4 In. Max. Press. P.S.I. Time Description of Flow
INFORMATION M.
 M.
 M.
BLOW weak blow ten minutes, flushed tool four times Bottom Choke Size 3/4 In.
Did Well Flow Yes X No Recovery Total Ft.
Reversed Out Yes X No Mud Type starch Viscosity 45 Weight 9.7 Water Loss 14 cc. Maximum Temp. 110 °F
EXTRA EQUIPMENT: Dual Packers dual Safety Joint Jars: Size Make Ser. No.
Type Circ. Sub. plug Did Tool Plug? yes Where? anchor tool Did Packer Hold? yes
Length Drill Pipe 2595 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1066 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ft.
I. D. Drill Collars in. Length D.S.T. Tool 69 ft.
Remarks Plugged tool and anchor - misrun.

Monarch Oil Co.
Drille # A-2

TKT-10008
Test #3
Miss Run



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud		PSI
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-in Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-in Pressure		PSI
(H) Final Hydrostatic Mud		PSI