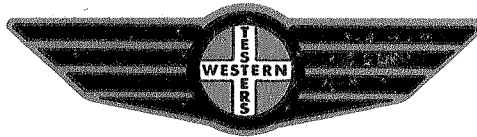


15-145-00504-0001



5-21s-16w

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

Company Messman-Rinehart Oil Co. Lease & Well No. Malone Dwyer #1

Elevation 2012 Kelly Bushings Formation Arbuckle Effective Pay _____ Ft. Ticket No. 17236

Date 12-17-72 Sec. 5 Twp. 21S Range 16W County Pawnee State Kansas

Test Approved by J. G. Klein Western Representative Mike Davenport

Formation Test No. 2 O.K. ☒ Misrun _____ Interval Tested From 3787' to 3830' Total Depth 3830'

Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No

Packer Depth 3782 Ft. Size 6 3/4" Packer Depth 3787 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 43 Ft. Size 5 1/2" O.D. Perf.

RECORDERS Depth 3821 Ft. Clock No. 9727 Depth 3824 Ft. Clock No. 6893

Top Make Kuster Cap. 4150 No. 2604 Inside Outside Bottom Make Kuster Cap. 4300 No. 1567 Inside Outside

Below Straddle: Depth _____ Clock No. _____ Inside _____ Outside _____

Top Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 1:46 P. M.

Tool Open I.F.P. From 1:30 M. to 2:00P. M. Hr. 10 Min. From (B) 371 P.S.I. To (C) 508 P.S.I.

Tool Closed I.C.I.P. From 2:00 M. to 2:30P. M. Hr. 30 Min. (D) 968 P.S.I.

Tool Open F.F.P. From 2:30 M. to 3:15P. M. Hr. 45 Min. From (E) 598 P.S.I. To (F) 702 P.S.I.

Tool Closed F.C.I.P. From 3:15 M. to 4:00P. M. Hr. 45 Min. (G) 807 P.S.I.

Initial Hydrostatic Pressure (A) 2081 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 Strong blow F.F.P. Blow deminishing to good blow Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1550 feet water very slightly gas-cut

Reversed Out ☒ Yes _____ No _____ Mud Type Starch Viscosity 60 Weight 9.9 Water Loss 10.0 cc. Maximum Temp. 123 °F

Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____

Length Drill Pipe 2980 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 787 ft. I.D. Weight Pipe 3.8 in. Length Drill Collars _____ ft.

I.D. Drill Collars _____ in. Length D.S.T. Tool 63 ft.

Remarks _____

WESTERN TESTING CO., INC.

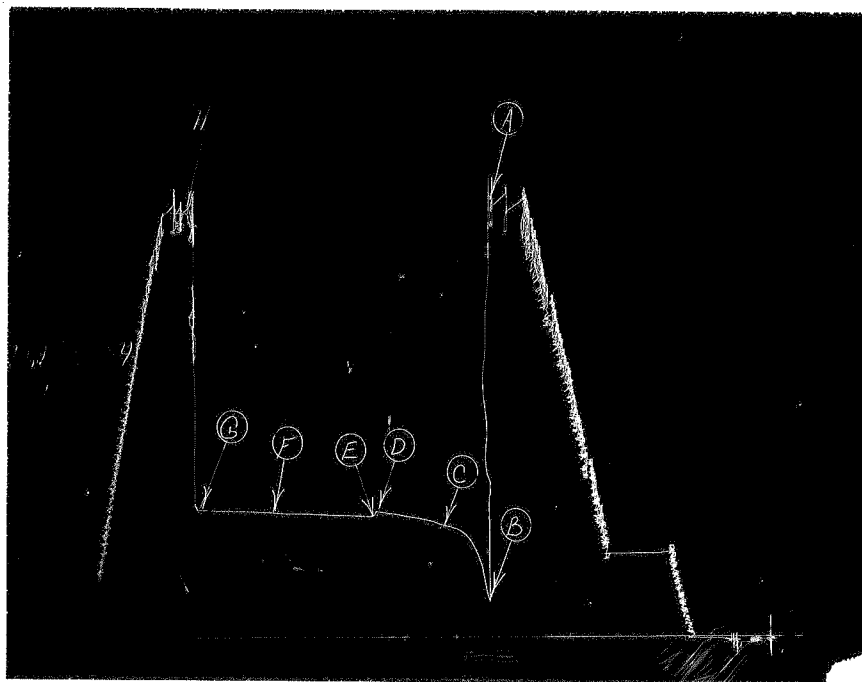
Pressure Data

Date 12-17-72 Test Ticket No. 17236
 Recorder No. 2604 Capacity 4150 Location 3821 Ft.
 Clock No. 9727 Elevation 2012 Kelly Bushings Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2081</u>	P.S.I.	<u>1:50 P.</u>	<u>M</u>
B First Initial Flow Pressure	<u>371</u>	P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>508</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>968</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
E Second Initial Flow Pressure	<u>598</u>	P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
F Second Final Flow Pressure	<u>702</u>	P.S.I.		
G Final Closed-in Pressure	<u>807</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2021</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>9</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.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>371</u>	<u>0</u>	<u>508</u>	<u>0</u>	<u>598</u>	<u>0</u>	<u>702</u>
P 2 <u>5</u>	<u>455</u>	<u>3</u>	<u>748</u>	<u>5</u>	<u>604</u>	<u>3</u>	<u>713</u>
P 3 <u>10</u>	<u>508</u>	<u>6</u>	<u>832</u>	<u>10</u>	<u>627</u>	<u>6</u>	<u>727</u>
P 4		<u>9</u>	<u>863</u>	<u>15</u>	<u>648</u>	<u>9</u>	<u>740</u>
P 5		<u>12</u>	<u>891</u>	<u>20</u>	<u>661</u>	<u>12</u>	<u>748</u>
P 6		<u>15</u>	<u>916</u>	<u>25</u>	<u>669</u>	<u>15</u>	<u>757</u>
P 7		<u>18</u>	<u>926</u>	<u>30</u>	<u>679</u>	<u>18</u>	<u>763</u>
P 8		<u>21</u>	<u>947</u>	<u>35</u>	<u>687</u>	<u>21</u>	<u>769</u>
P 9		<u>24</u>	<u>953</u>	<u>40</u>	<u>695</u>	<u>24</u>	<u>776</u>
P10		<u>27</u>	<u>962</u>	<u>45</u>	<u>702</u>	<u>27</u>	<u>780</u>
P11		<u>30</u>	<u>968</u>			<u>30</u>	<u>788</u>
P12						<u>33</u>	<u>792</u>
P13						<u>36</u>	<u>796</u>
P14						<u>39</u>	<u>799</u>
P15						<u>42</u>	<u>803</u>
P16						<u>45</u>	<u>807</u>
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2052	2081
(B) First Initial Flow Pressure	170	174
(C) First Final Flow Pressure	533	537
(D) Initial Closed-in Pressure	596	603
(E) Second Initial Flow Pressure	575	583
(F) Second Final Flow Pressure	596	597
(G) Final Closed-in Pressure	606	617
(H) Final Hydrostatic Mud	2031	2063



Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company Messman-Rinehart Oil Co. Lease & Well No. Malone Dwyer #1

Elevation 2012 Kelly Bushings Formation Arbuckle Effective Pay _____ Ft. Ticket No. 17234

Date 12-17-72 Sec. 5 Twp. 21S Range 16W County Pawnee State Kansas

Test Approved by J. G. Klein Western Representative Mike Davenport

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3789' to 3803' Total Depth 3830'

Size Main Hole 7 7/8" Rat Hole _____ Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No Conv. _____ B.T. ☒ Damaged _____ Yes ☒ No

Packer Depth 3784 Ft. Size 6 3/4" Packer Depth 3789 Ft. Size 6 3/4"

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

Packer Depth 3813 Ft. Size 6 3/4"

Tool Size 5 1/2" O.D. Tool Jt. Size 4 1/2" F.H. Anchor Length 14 Ft. Size 5 1/2" O.D. Perf.

RECORDERS	Depth	Ft.	Clock No.	Depth	Ft.	Clock No.
	<u>3803</u>		<u>9727</u>		<u>3806</u>	<u>6893</u>
Top Make <u>Kuster</u>	Cap. <u>4150</u>	No. <u>2604</u>	Inside <u>Outside</u>	Bottom Make <u>Kuster</u>	Cap. <u>4300</u>	No. <u>1567</u>
Below Straddle: Depth _____	Clock No. _____	Inside <u>Outside</u>	Depth _____	Clock No. _____	Inside <u>Outside</u>	
Top Make _____	Cap. _____	No. _____	Inside <u>Outside</u>	Bottom Make _____	Cap. _____	No. _____

Time Set Packer 12:44 A.M.

Tool Open I.F.P. From 12:48 M. to 1:20A M. Hr. 30 Min. From (B) 174 P.S.I. To (C) 537 P.S.I.

Tool Closed I.C.I.P. From 1:20 M. to 2:05A M. Hr. 45 Min. (D) 603 P.S.I.

Tool Open F.F.P. From 2:05 M. to 3:05A M. Hr. 1 Min. From (E) 583 P.S.I. To (F) 597 P.S.I.

Tool Closed F.C.I.P. From 3:05 M. to 4:05A M. Hr. 1 Min. (G) 617 P.S.I.

Initial Hydrostatic Pressure (A) 2081 P.S.I. Final Hydrostatic Pressure (H) 2063 P.S.I.

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

BLOW Strong blow deminishing to good blow Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1350 feet water

Reversed Out _____ Yes ☒ No _____ Mud Type Starch Viscosity 60 Weight 9.9 Water Loss 10.0 cc. Maximum Temp. 126 °F

Type Circ. Sub. Plug Safety Joint No Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Did Packer Hold? Yes Did Tool Plug? No Where? _____

Length Drill Pipe 2982 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 787 ft. I.D. Weight Pipe 3.5 in. Length Drill Collars _____ ft.

I.D. Drill Collars _____ in. Length D.S.T. Tool 61 ft.

Remarks _____

WESTERN TESTING CO., INC.

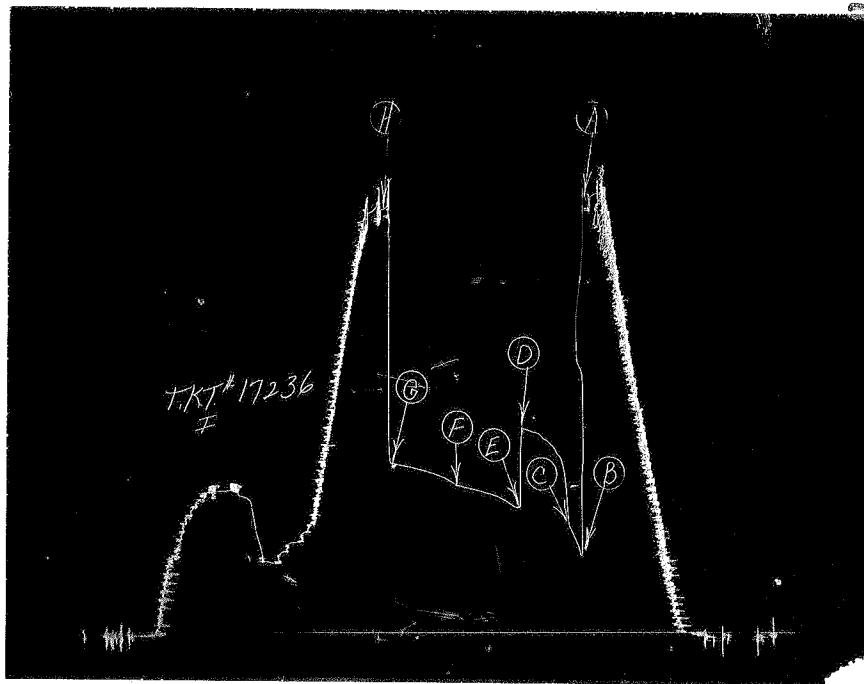
Pressure Data

Date 12-17-72 Recorder No. 2604 Capacity 4150 Test Ticket No. 17234
 Clock No. 9726 Elevation 2012 Kelly Bushings Location 3803 Ft.
 Well Temperature 126 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2081	P.S.I.	12:48 A.	M
B First Initial Flow Pressure	174	P.S.I.	30	Mins.
C First Final Flow Pressure	537	P.S.I.	45	Mins.
D Initial Closed-in Pressure	603	P.S.I.	60	Mins.
E Second Initial Flow Pressure	583	P.S.I.	60	Mins.
F Second Final Flow Pressure	597	P.S.I.		
G Final Closed-in Pressure	617	P.S.I.		
H Final Hydrostatic Mud	2063	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>19</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>2</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>174</u>	<u>0</u>	<u>537</u>	<u>0</u>	<u>583</u>	<u>0</u>	<u>597</u>
P 2 <u>5</u>	<u>324</u>	<u>3</u>	<u>543</u>	<u>5</u>	<u>583</u>	<u>3</u>	<u>597</u>
P 3 <u>10</u>	<u>423</u>	<u>6</u>	<u>552</u>	<u>10</u>	<u>583</u>	<u>6</u>	<u>598</u>
P 4 <u>15</u>	<u>485</u>	<u>9</u>	<u>558</u>	<u>15</u>	<u>584</u>	<u>9</u>	<u>600</u>
P 5 <u>20</u>	<u>514</u>	<u>12</u>	<u>562</u>	<u>20</u>	<u>584</u>	<u>12</u>	<u>601</u>
P 6 <u>25</u>	<u>529</u>	<u>15</u>	<u>568</u>	<u>25</u>	<u>585</u>	<u>15</u>	<u>602</u>
P 7 <u>30</u>	<u>537</u>	<u>18</u>	<u>573</u>	<u>30</u>	<u>587</u>	<u>18</u>	<u>603</u>
P 8		<u>21</u>	<u>576</u>	<u>35</u>	<u>591</u>	<u>21</u>	<u>605</u>
P 9		<u>24</u>	<u>579</u>	<u>40</u>	<u>594</u>	<u>24</u>	<u>606</u>
P10		<u>27</u>	<u>583</u>	<u>45</u>	<u>596</u>	<u>27</u>	<u>607</u>
P11		<u>30</u>	<u>587</u>	<u>50</u>	<u>596</u>	<u>30</u>	<u>608</u>
P12		<u>33</u>	<u>590</u>	<u>55</u>	<u>597</u>	<u>33</u>	<u>608</u>
P13		<u>36</u>	<u>593</u>	<u>60</u>	<u>597</u>	<u>36</u>	<u>610</u>
P14		<u>39</u>	<u>596</u>			<u>39</u>	<u>611</u>
P15		<u>42</u>	<u>599</u>			<u>42</u>	<u>612</u>
P16		<u>45</u>	<u>603</u>			<u>45</u>	<u>612</u>
P17						<u>48</u>	<u>613</u>
P18						<u>51</u>	<u>614</u>
P19						<u>54</u>	<u>615</u>
P20						<u>57</u>	<u>616</u>
						<u>59</u>	<u>617</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2052	2081 PSI
(B) First Initial Flow Pressure	363	371 PSI
(C) First Final Flow Pressure	502	508 PSI
(D) Initial Closed-in Pressure	972	968 PSI
(E) Second Initial Flow Pressure	596	598 PSI
(F) Second Final Flow Pressure	690	702 PSI
(G) Final Closed-in Pressure	805	807 PSI
(H) Final Hydrostatic Mud	2021	2021 PSI