



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

Company Lee Phillips Oil Co. Lease & Well No. Popp # 1

Elevation 1509 Kelly Bushing Formation Mississippina Effective Pay _____ Ft. Ticket No. 11039

Date 11-3-68 Sec. 1 Twp. 26s Range 4w County Reno State Kansas

Test Approved by Jack H. Brown Western Representative Norman Allen

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 3638' to 3655' Total Depth 3655'

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

Packer Depth 3633 Ft. Size 6 3/4 Packer Depth 3638 Ft. Size 6 3/4

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

Packer Depth _____ Ft. Size _____

Tool Size 5 1/2"OD Tool Jt. Size 4 1/2"FH Anchor Length 17 Ft. Size 5 1/2"OD

RECORDERS Depth 3648 Ft. Clock No. 6861 Depth 3651 Ft. Clock No. 6899

Top Make Kuster Cap. 3150 No. 1560 Inside _____ Outside _____ Bottom Make Kuster Cap. 3200 No. 1561 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 7:47 PM

Tool Open I.F.P. From 7:50 M. to 8:00P M. Hr. 10 Min. From (B) 21 P.S.I. To (C) 28 P.S.I.

Tool Closed I.C.I.P. From 8:00 M. to 8:30P M. Hr. 30 Min. (D) 1060 P.S.I.

Tool Open F.F.P. From 8:30 M. to 9:30P M. 1 Hr. - Min. From (E) 31 P.S.I. To (F) 40 P.S.I.

Tool Closed F.C.I.P. From 9:30 M. to 10:00P M. Hr. 30 Min. (G) 1028 P.S.I.

Initial Hydrostatic Pressure (A) 1877 P.S.I. Final Hydrostatic Pressure (H) 1855 P.S.I.

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

INFORMATION _____ M. _____ M. _____ M. _____

BLOW Weak steady 15 minutes ~~00~~ Intermittent 20 minutes Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 60 feet thin drilling mud

Reversed Out _____ Yes ☒ No _____ Mud Type starch Viscosity 40 Weight 917 Water Loss 5.7 cc. Maximum Temp. 116 °F

Type Circ. Sub. pin Did Tool Plug? no Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers yes Safety Joint no Did Packer Hold? yes Where? _____

Length Drill Pipe 2538 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 1080 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars _____ ft.

I. D. Drill Collars _____ in. Length D.S.T. Tool 37 ft.

Remarks _____

WESTERN TESTING CO., INC.

Pressure Data

Date 11-3-68 Test Ticket No. 11039
 Recorder No. 1560 Capacity 3150 Location 3648 Ft.
 Clock No. 6861 Elevation 1509 Kelly Bushing Well Temperature 116 °F

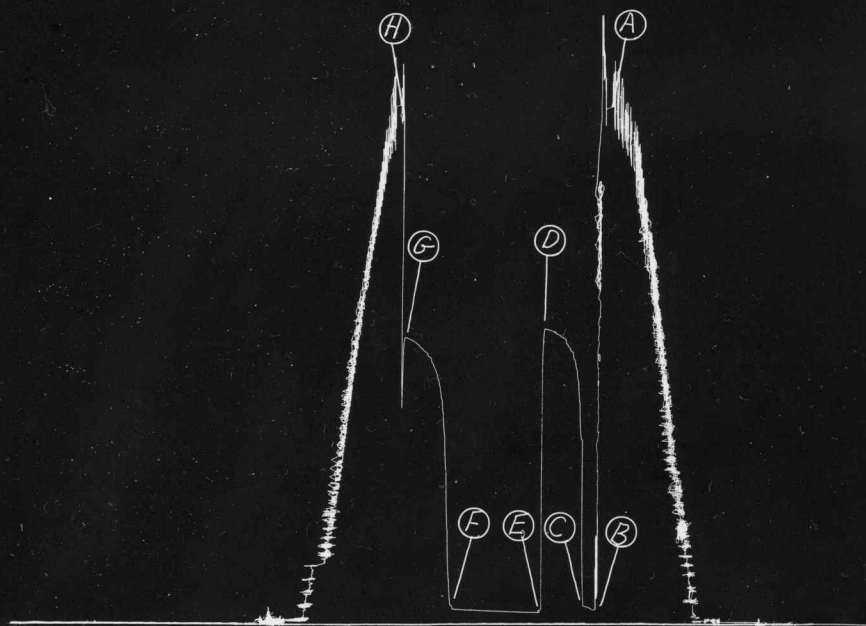
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1877</u> P.S.I.	Opened Tool	<u>7:47P</u> M	
B First Initial Flow Pressure	<u>21</u> P.S.I.	First Flow Pressure	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>28</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1060</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>31</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>32</u> Mins.
F Second Final Flow Pressure	<u>40</u> P.S.I.			
G Final Closed-in Pressure	<u>1028</u> P.S.I.			
H Final Hydrostatic Mud	<u>1855</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ 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>21</u>	<u>0</u>	<u>28</u>	<u>0</u>	<u>31</u>	<u>0</u>	<u>40</u>
P 2 <u>5</u>	<u>25</u>	<u>3</u>	<u>291</u>	<u>5</u>	<u>31</u>	<u>3</u>	<u>338</u>
P 3 <u>10</u>	<u>28</u>	<u>6</u>	<u>857</u>	<u>10</u>	<u>31</u>	<u>6</u>	<u>773</u>
P 4 _____		<u>9</u>	<u>940</u>	<u>15</u>	<u>31</u>	<u>9</u>	<u>860</u>
P 5 _____		<u>12</u>	<u>979</u>	<u>20</u>	<u>31</u>	<u>12</u>	<u>912</u>
P 6 _____		<u>15</u>	<u>1006</u>	<u>25</u>	<u>31</u>	<u>15</u>	<u>948</u>
P 7 _____		<u>18</u>	<u>1023</u>	<u>30</u>	<u>32</u>	<u>18</u>	<u>970</u>
P 8 _____		<u>21</u>	<u>1034</u>	<u>35</u>	<u>33</u>	<u>21</u>	<u>989</u>
P 9 _____		<u>24</u>	<u>1045</u>	<u>40</u>	<u>34</u>	<u>24</u>	<u>1003</u>
P 10 _____		<u>27</u>	<u>1052</u>	<u>45</u>	<u>35</u>	<u>27</u>	<u>1024</u>
P 11 _____		<u>30</u>	<u>1060</u>	<u>60</u>	<u>37</u>	<u>30</u>	<u>1022</u>
P 12 _____				<u>55</u>	<u>39</u>	<u>32</u>	<u>1028</u>
P 13 _____				<u>60</u>	<u>40</u>		
P 14 _____							
P 15 _____							
P 16 _____							
P 17 _____							
P 18 _____							
P 19 _____							
P 20 _____							

LEE PHILLIPS OIL CO.
POPP #1

T.K.T 11039
TEST #1



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1876	1877	PSI
(B) First Initial Flow Pressure	15	21	PSI
(C) First Final Flow Pressure	23	28	PSI
(D) Initial Closed-in Pressure	1053	1060	PSI
(E) Second Initial Flow Pressure	23	31	PSI
(F) Second Final Flow Pressure	39	40	PSI
(G) Final Closed-in Pressure	1022	1028	PSI
(H) Final Hydrostatic Mud	1859	1855	PSI



Home Office: Great Bend, Kansas
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Company **Lee Phillips Oil Co.** Lease & Well No. **Popp # 1**
Elevation **1509 Kelly Bushing** Formation **Viola** Effective Pay _____ Ft. Ticket No. **11041**
Date **11-6-68** Sec. **1** Twp. **26s** Range **4w** County **Reno** State **Kansas**
Test Approved by **Jack H. Brown** Western Representative **Norman Allen**
Formation Test No. **2** O.K. ☒ Misrun _____ Interval Tested From **4060'** to **4091'** Total Depth **4091'**
Size Main Hole **7 7/8** Rat Hole _____ Conv. ☒ B.T. _____ Damaged Yes ☒ No Conv. ☒ B.T. _____ Damaged Yes ☒ No
Packer Depth **4055** Ft. Size **6 3/4** Packer Depth **4060** Ft. Size **6 3/4**
Straddle _____ Yes _____ No ☒ Conv. _____ B.T. _____ Damaged _____ Yes _____ No
Packer Depth _____ Ft. Size _____
Tool Size **5 1/2" OD** Tool Jt. Size **4 1/2" FH** Anchor Length **31** Ft. Size **5 1/2" OD**
RECORDERS Depth **4083** Ft. Clock No. **6861** Depth **4086** Ft. Clock No. **6899**
Top Make **Kuster** Cap. **3150** No. **1560** Inside _____ Outside _____ Bottom Make **Kuster** Cap. **3200** No. **1561** 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 **4:17 P M**
Tool Open I.F.P. From **4:20** M. to **4:30 P M** Hr. **10** Min. From (B) **78** P.S.I. To (C) **654** P.S.I.
Tool Closed I.C.I.P. From **4:30** M. to **5:00 P M** Hr. **30** Min. (D) **1428** P.S.I.
Tool Open F.F.P. From **5:00** M. to **6:00 P M** Hr. **1** Min. From (E) **940** P.S.I. To (F) **1428** P.S.I.
Tool Closed F.C.I.P. From **6:00** M. to **6:30 P M** Hr. **30** Min. (G) **1428** P.S.I.
Initial Hydrostatic Pressure (A) **2129** P.S.I. Final Hydrostatic Pressure (H) **2107** P.S.I.
SURFACE Size Choke **3/4** In. Max. Press. P.S.I. _____ Time _____ Description of Flow _____
INFORMATION _____ M. _____
_____ M. _____
_____ M. _____
BLOW **Strong decreasing to very weak at 45 minutes** Bottom Choke Size **3/4** In.
Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. **3000 feet salt water (sulphur cut)**
Reversed Out _____ Yes ☒ No _____ Mud Type **starch** Viscosity **53** Weight **99** Water Loss **5** cc. Maximum Temp. **130** °F
Type Circ. Sub. **pin** Did Tool Plug? **no** Jars: Size _____ Make _____ Ser. No. _____
EXTRA EQUIPMENT: Dual Packers **yes** Safety Joint **no** Did Packer Hold? **yes** Where? _____
Length Drill Pipe **2960** ft. I.D. Drill Pipe **3.8** in. Length Weight Pipe **1080** ft. I.D. Weight Pipe **2.7** in. Length Drill Collars _____ ft.
I. D. Drill Collars _____ in. Length D.S.T. Tool **51** ft.
Remarks _____

WESTERN TESTING CO., INC. Pressure Data

Date 11-6-68 Test Ticket No. 11041
Recorder No. 1560 Capacity 3150 Location 4083 Ft.
Clock No. 6861 Elevation 1509 Kelly Bushing Well Temperature 130 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2129</u> P.S.I.	<u>4:17P</u> M	
B First Initial Flow Pressure	<u>78</u> P.S.I.	<u>10</u> Mins.	<u>10</u> Mins.
C First Final Flow Pressure	<u>654</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1428</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>940</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>1428</u> P.S.I.		
G Final Closed-in Pressure	<u>1428</u> P.S.I.		
H Final Hydrostatic Mud	<u>2107</u> P.S.I.		

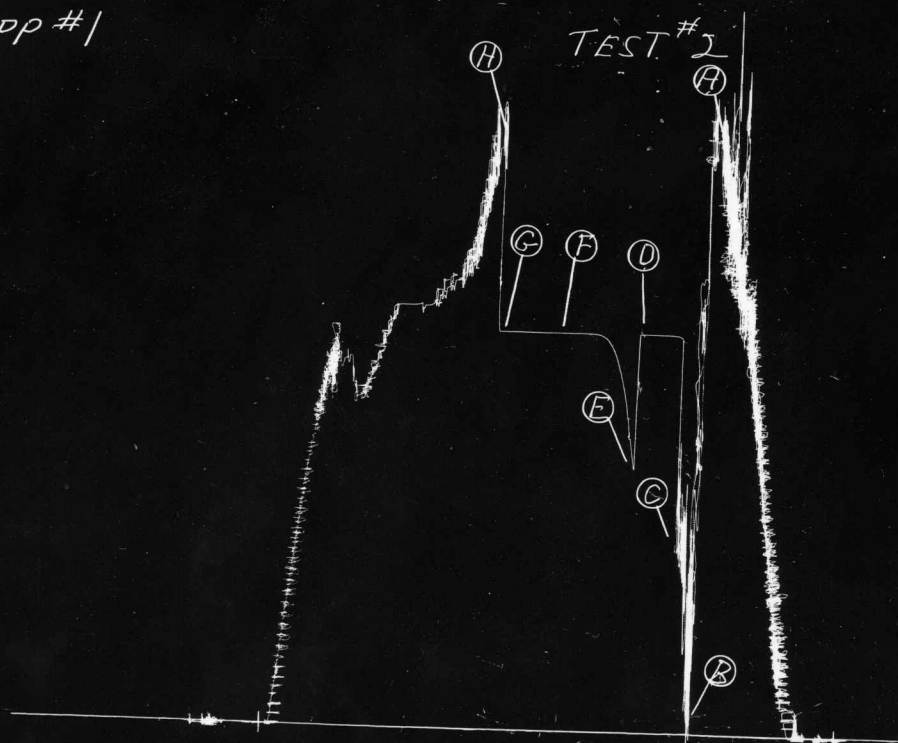
PRESSURE BREAKDOWN

First Flow Press.		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>2</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</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 _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>78</u>	<u>0</u>	<u>654</u>	<u>0</u>	<u>940</u>	<u>0</u>	<u>1428</u>
P 2 <u>5</u>	<u>283</u>	<u>3</u>	<u>1423</u>	<u>5</u>	<u>1134</u>	<u>3</u>	<u>1428</u>
P 3 <u>10</u>	<u>654</u>	<u>6</u>	<u>1428</u>	<u>10</u>	<u>1263</u>	<u>6</u>	<u>1428</u>
P 4 _____		<u>9</u>	<u>1428</u>	<u>15</u>	<u>1350</u>	<u>9</u>	<u>1428</u>
P 5 _____		<u>12</u>	<u>1428</u>	<u>20</u>	<u>1403</u>	<u>12</u>	<u>1428</u>
P 6 _____		<u>15</u>	<u>1428</u>	<u>25</u>	<u>1423</u>	<u>15</u>	<u>1428</u>
P 7 _____		<u>18</u>	<u>1428</u>	<u>30</u>	<u>1426</u>	<u>18</u>	<u>1428</u>
P 8 _____		<u>21</u>	<u>1428</u>	<u>35</u>	<u>1428</u>	<u>21</u>	<u>1428</u>
P 9 _____		<u>24</u>	<u>1428</u>	<u>40</u>	<u>1428</u>	<u>24</u>	<u>1428</u>
P 10 _____		<u>27</u>	<u>1428</u>	<u>45</u>	<u>1428</u>	<u>27</u>	<u>1428</u>
P 11 _____		<u>30</u>	<u>1428</u>	<u>50</u>	<u>1428</u>	<u>30</u>	<u>1428</u>
P 12 _____				<u>55</u>	<u>1428</u>		
P 13 _____				<u>60</u>	<u>1428</u>		
P 14 _____							
P 15 _____							
P 16 _____							
P 17 _____							
P 18 _____							
P 19 _____							
P 20 _____							

LEE PHILLIPS OIL CO.
POPP #1

T.K.T 11041

TEST #2



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2126	2129	PSI
(B) First Initial Flow Pressure	56	78	PSI
(C) First Final Flow Pressure	660	654	PSI
(D) Initial Closed-in Pressure	1418	1428	PSI
(E) Second Initial Flow Pressure	943	940	PSI
(F) Second Final Flow Pressure	1418	1428	PSI
(G) Final Closed-in Pressure	1418	1428	PSI
(H) Final Hydrostatic Mud	2102	2107	PSI