

Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Deitterich #1
Elevation 2489 Derrick Floor Ticket Number 5459
Date Oct. 1, 1964 Sec. 20 Twp. 16 Range 23 County Ness State Kansas
Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 1 O.K. ☒ Misrun ☐ Interval Tested From 4390' to 4430' Total Depth 4430'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No
Packer Depth 4385 Ft. Size 6 3/4 Packer Depth 4390 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No
Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 40 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4424</u> Ft.	Clock No. <u>6892</u>	Depth <u>4427</u> Ft.	Clock No. <u>142</u>
	Top Make <u>Amerada</u> Cap. <u>4382</u> No. <u>1567</u>	Inside ☐ Outside ☐	Bottom Make <u>Western</u> Cap. <u>3000</u> No. <u>30</u>	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 5:03 P M
Tool Open I.F.P. From 5:05 P M to 5:10 P M Hr. 5 Min. From (B) 30 P.S.I. To (C) 30 P.S.I.
Tool Closed I.C.I.P. From 5:10 P M. to 5:40 P M. Hr. 30 Min. (D) 56 P.S.I.
Tool Open F.F.P. From 5:40 M. to 6:40 P M. 1 Hr. Min. From (E) 43 P.S.I. To (F) 47 P.S.I.
Tool Closed F.C.I.P. From 6:40 P M. to 7:10 P M. Hr. 30 Min. (G) 49 P.S.I.
Initial Hydrostatic Pressure (A) 2460 P.S.I. Final Hydrostatic Pressure (H) 2447 P.S.I.

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

BLOW Very weak five minutes
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 6' mud with few spots of oil Bottom Choke Size 3/4 In.

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 42 Weight 10 Maximum Temp. 119 °F
EXTRA EQUIPMENT: Dual Packers yes Safety Joint ☐ Jars: Size ☐ Make ☐ Ser. No. ☐
Type Circ. Sub. plug Did Tool Plug? no Where? ☐ Did Packer Hold? yes
Length Drill Pipe 2741 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 630 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D. S. T. Tool 59 ft.

Remarks

Flushed tool after 45 minutes. O. K.

WESTERN TESTING CO., INC. Pressure Data

Date October 1, 1964 Test Ticket No. 5459
Recorder No. 1567 Capacity 4300 Location 4424 Ft.
Clock No. 6892 Elevation 2489 Derrick Floor Well Temperature 119 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2460</u> P.S.I.	Opened Tool	<u>5:03 P</u> M	
B First Initial Flow Pressure	<u>30</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>56</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>43</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>47</u> P.S.I.			
G Final Closed-in Pressure	<u>49</u> P.S.I.			
H Final Hydrostatic Mud	<u>2447</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.

Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure

Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

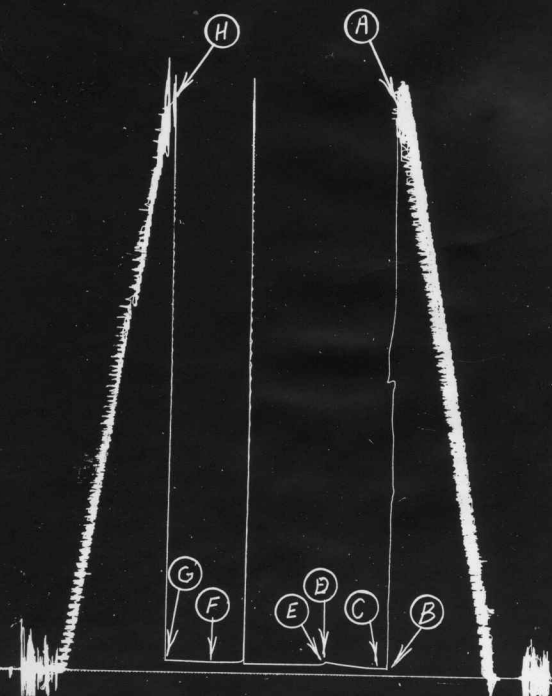
Final Shut-In

Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>30</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>47</u>
P 2 <u>5</u>	<u>30</u>	<u>3</u>	<u>30</u>	<u>5</u>	<u>43</u>	<u>3</u>	<u>47</u>
P 3		<u>6</u>	<u>31</u>	<u>10</u>	<u>43</u>	<u>6</u>	<u>47</u>
P 4		<u>9</u>	<u>32</u>	<u>15</u>	<u>43</u>	<u>9</u>	<u>47</u>
P 5		<u>12</u>	<u>35</u>	<u>20</u>	<u>43</u>	<u>12</u>	<u>48</u>
P 6		<u>15</u>	<u>40</u>	<u>25</u>	<u>43</u>	<u>15</u>	<u>48</u>
P 7		<u>18</u>	<u>45</u>	<u>30</u>	<u>43</u>	<u>18</u>	<u>48</u>
P 8		<u>21</u>	<u>48</u>	<u>35</u>	<u>43</u>	<u>21</u>	<u>48</u>
P 9		<u>24</u>	<u>51</u>	<u>40</u>	<u>43</u>	<u>24</u>	<u>49</u>
P 10		<u>27</u>	<u>54</u>	<u>45</u>	<u>43</u>	<u>27</u>	<u>49</u>
P 11		<u>30</u>	<u>56</u>	<u>50</u>	<u>47</u>	<u>30</u>	<u>49</u>
P 12				<u>55</u>	<u>47</u>		
P 13				<u>60</u>	<u>47</u>		
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drlg. Co.
Deitterich #1

Test #1
TKT#5459



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2460	PSI
(B) First Initial Flow Pressure	30	PSI
(C) First Final Flow Pressure	30	PSI
(D) Initial Closed-in Pressure	56	PSI
(E) Second Initial Flow Pressure	43	PSI
(F) Second Final Flow Pressure	47	PSI
(G) Final Closed-in Pressure	49	PSI
(H) Final Hydrostatic Mud	2447	PSI



Home Office: Great Bend, Kansas
P. O. Box 793 Gladstone 3-7903

Company Pickrell Drilling Company Lease & Well No. Deitterich #1
Elevation 2489 Derrick Floor Ticket Number 5460
Date Oct. 2, 1964 Sec. 20 Twp. 16 Range 23 County Ness State Kansas
Test Approved by George E. Link Western Representative Jack Toelkes

Formation Test No. 2 O.K. ☒ Misrun ☐ Interval Tested From 4475' to 4491' Total Depth 4491'
Size Main Hole 7 7/8 Rat Hole ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☒ Damaged ☐ Yes ☒ No ☐
Packer Depth 4470 Ft. Size 6 3/4 Packer Depth 4475 Ft. Size 6 3/4
Straddle ☐ Yes ☒ No ☐ Conv. ☐ B.T. ☐ Damaged ☐ Yes ☐ No ☐
Packer Depth ☐ Ft. Size ☐
Tool Size 5 1/2 O. D. Tool Jt. Size 4 1/2 F. H. Anchor Length 16 Ft. Size 5 1/2 O. D.

RECORDERS	Depth <u>4485</u>	Ft.	Clock No. <u>6892</u>	Depth <u>4488</u>	Ft.	Clock No. <u>142</u>
	Top Make <u>Amerada</u>	Cap. <u>4382</u>	No. <u>1567</u>	Bottom Make <u>Western</u>	Cap. <u>4000</u>	No. <u>57</u>
			Inside ☐ Outside ☒			Inside ☐ Outside ☒
Below Straddle:	Depth ☐	Clock No. ☐	Inside ☐ Outside ☐	Depth ☐	Ft. ☐	Clock No. ☐
	Top Make ☐	Cap. ☐	Inside ☐ Outside ☐	Bottom Make ☐	Cap. ☐	No. ☐

Time Set Packer 12:02 P M
Tool Open I.F.P. From 12:03 P M to 12:08 P M Hr. 5 Min. From (B) 22 P.S.I. To (C) 22 P.S.I.
Tool Closed I.C.I.P. From 12:08 P M. to 12:38 P M. Hr. 30 Min. (D) 1240 P.S.I.
Tool Open F.F.P. From 12:38 P M. to 1:08 P M. Hr. 30 Min. From (E) 30 P.S.I. To (F) 30 P.S.I.
Tool Closed F.C.I.P. From 1:08 P M. to 1:38 P M. Hr. 30 Min. (G) 1129 P.S.I.
Initial Hydrostatic Pressure (A) 2484 P.S.I. Final Hydrostatic Pressure (H) 2449 P.S.I.

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

BLOW Very weak 10 minutes Bottom Choke Size 3/4 in.
Did Well Flow ☒ Yes ☐ No Recovery Total Ft. 101 drilling mud

Reversed Out ☒ Yes ☐ No Mud Type starch Viscosity 47 Weight 10.2 Water loss 10.8 Maximum Temp. 120 °F

EXTRA EQUIPMENT: Dual Packers ☒ Safety Joint ☐ Jars: Size ☐ Make ☐ Ser. No. ☐
Type Circ. Sub. plug Did Tool Plug? ☐ no Where? ☐ Did Packer Hold? ☒ yes
Length Drill Pipe 3826 ft. I.D. Drill Pipe 3.8 in. Length Weight Pipe 630 ft. I.D. Weight Pipe 2.7 in. Length Drill Collars ☐ ft.
I. D. Drill Collars ☐ in. Length D. S. T. Tool 35 ft.

Remarks

Flushed tool after 15 minutes. O, K.

WESTERN TESTING CO., INC. Pressure Data

Date October 2, 1964 Test Ticket No. 5460
Recorder No. 1567 Capacity 4300 Location 4485 Ft.
Clock No. 6892 Elevation 2489 Derrick Floor Well Temperature 120 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2404</u> P.S.I.	Opened Tool	<u>12:02 P</u> M	
B First Initial Flow Pressure	<u>22</u> P.S.I.	First Flow Pressure	<u>5</u> Mins.	<u>5</u> Mins.
C First Final Flow Pressure	<u>22</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>28</u> Mins.
D Initial Closed-in Pressure	<u>1240</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>30</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>30</u> P.S.I.			
G Final Closed-in Pressure	<u>1129</u> P.S.I.			
H Final Hydrostatic Mud	<u>2449</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Press.
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 1 Min.

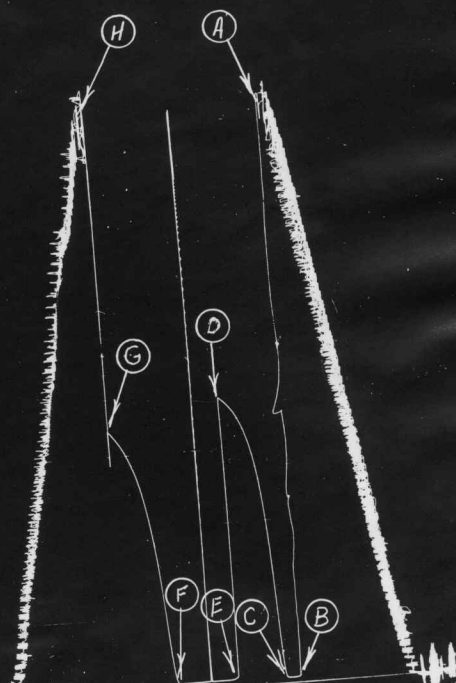
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>22</u>	<u>0</u>	<u>22</u>	<u>0</u>	<u>30</u>	<u>0</u>	<u>30</u>
P 2 <u>5</u>	<u>22</u>	<u>3</u>	<u>280</u>	<u>5</u>	<u>30</u>	<u>3</u>	<u>149</u>
P 3		<u>6</u>	<u>633</u>	<u>10</u>	<u>30</u>	<u>6</u>	<u>406</u>
P 4		<u>9</u>	<u>848</u>	<u>15</u>	<u>30</u>	<u>9</u>	<u>605</u>
P 5		<u>12</u>	<u>974</u>	<u>20</u>	<u>30</u>	<u>12</u>	<u>745</u>
P 6		<u>15</u>	<u>1070</u>	<u>25</u>	<u>30</u>	<u>15</u>	<u>861</u>
P 7		<u>18</u>	<u>1137</u>	<u>30</u>	<u>30</u>	<u>18</u>	<u>956</u>
P 8		<u>21</u>	<u>1178</u>			<u>21</u>	<u>1025</u>
P 9		<u>24</u>	<u>1210</u>			<u>24</u>	<u>1066</u>
P 10		<u>27</u>	<u>1232</u>			<u>27</u>	<u>1101</u>
P 11		<u>28</u>	<u>1240</u>			<u>30</u>	<u>1129</u>
P 12							
P 13							
P 14							
P 15							
P 16							
P 17							
P 18							
P 19							
P 20							

Pickrell Drilling Co.
Deitrich #1

TEST# 2
TKT#5460



This is an actual photograph of recorder chart.

POINT

PRESSURE

(A) Initial Hydrostatic Mud	2484	PSI
(B) First Initial Flow Pressure	22	PSI
(C) First Final Flow Pressure	22	PSI
(D) Initial Closed-in Pressure	1240	PSI
(E) Second Initial Flow Pressure	30	PSI
(F) Second Final Flow Pressure	30	PSI
(G) Final Closed-in Pressure	1129	PSI
(H) Final Hydrostatic Mud	2449	PSI