



27-23-5E

Home Office: Great Bend, Kansas

P. O. Box 793

(316) 793-7903

Company Range Oil Co., Inc. Lease & Well No. Entz #1

Elevation 1432 Kelly Bushings Formation Conglomerate Sand Effective Pay _____ Ft. Ticket No. 15593

Date 4-4-71 Sec. 27 Twp. 23S Range 5E County Butler State Kansas

Test Approved by R. B. Gebhart Jr. Western Representative Norman Allen

Formation Test No. 1 O.K. ☒ Misrun _____ Interval Tested From 2353' to 2385' Total Depth 2385'

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

Packer Depth 2348 Ft. Size 6 3/4" Packer Depth 2353 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 32 Ft. Size 5 1/2" O.D.

RECORDERS Depth 2378 Ft. Clock No. 4763 Depth 2381 Ft. Clock No. 8474

Top Make Kuster Cap. 4000 No. 3351 Inside _____ Outside _____ Bottom Make Kuster Cap. 4150 No. 2606 Inside _____ Outside _____

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

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

Bottom Make _____ Cap. _____ No. _____ Inside _____ Outside _____

Time Set Packer 10:58 A.M.

Tool Open I.F.P. From 11:00 M. to 11:30A. M. Hr. 30 Min. From (B) 45 P.S.I. To (C) 288 P.S.I.

Tool Closed I.C.I.P. From 11:30 M. to 12:00 M. Hr. 30 Min. (D) 749 P.S.I.

Tool Open F.F.P. From 12:00 M. to 12:30P. M. Hr. 30 Min. From (E) 310 P.S.I. To (F) 440 P.S.I.

Tool Closed F.C.I.P. From 12:30 M. to 1:00P. M. Hr. 30 Min. (G) 744 P.S.I.

Initial Hydrostatic Pressure (A) 1151 P.S.I. Final Hydrostatic Pressure (H) 1131 P.S.I.

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

INFORMATION _____ M. _____

_____ M. _____

_____ M. _____

BLOW Strong diminishing slightly at end of test Bottom Choke Size 3/4 In.

Did Well Flow _____ Yes ☒ No _____ Recovery Total Ft. 1125 feet salt water

Reversed Out ☒ Yes ☒ No _____ Mud Type Chem. Viscosity 37 Weight 9.2 Water Loss 13.2 cc. Maximum Temp. 97 °F

Type Circ. Sub. Pin Did Tool Plug? ☒ Jars: Size _____ Make _____ Ser. No. _____

EXTRA EQUIPMENT: Dual Packers Yes Safety Joint No Did Packer Hold? Yes Where? _____

Length Drill Pipe 2183 ft. I.D. Drill Pipe 3.3 in. Length Weight Pipe _____ ft. I.D. Weight Pipe _____ in. Length Drill Collars 150 ft.

I. D. Drill Collars 2 1/4 in. Length D.S.T. Tool 52 ft.

Remarks _____

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WESTERN TESTING CO., INC. Pressure Data

27-23-5E

Date 4-4-71 Recorder No. 3351 Capacity 4000 Test Ticket No. 15593
Clock No. 4763 Elevation 1432 Kelly Bushings Location 2378 Ft. 97 °F

Point	Pressure		Time Given	A.	M.	Time Computed
A Initial Hydrostatic Mud	1151	P.S.I.	10:58			
B First Initial Flow Pressure	45	P.S.I.	30			30
C First Final Flow Pressure	288	P.S.I.	30			30
D Initial Closed-in Pressure	749	P.S.I.	30			30
E Second Initial Flow Pressure	310	P.S.I.	30			30
F Second Final Flow Pressure	440	P.S.I.				
G Final Closed-in Pressure	744	P.S.I.				
H Final Hydrostatic Mud	1131	P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 1 Min.

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 7 Min.

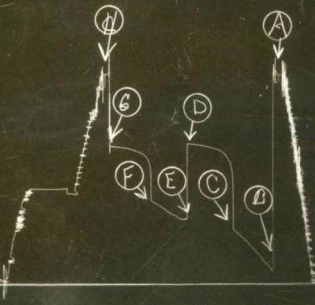
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 1 Min.

Final Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 7 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>45</u>	<u>0</u>	<u>288</u>	<u>0</u>	<u>310</u>	<u>0</u>	<u>440</u>
P 2 <u>5</u>	<u>121</u>	<u>3</u>	<u>685</u>	<u>5</u>	<u>326</u>	<u>3</u>	<u>684</u>
P 3 <u>10</u>	<u>160</u>	<u>6</u>	<u>707</u>	<u>10</u>	<u>356</u>	<u>6</u>	<u>708</u>
P 4 <u>15</u>	<u>197</u>	<u>9</u>	<u>722</u>	<u>15</u>	<u>384</u>	<u>9</u>	<u>718</u>
P 5 <u>20</u>	<u>216</u>	<u>12</u>	<u>730</u>	<u>20</u>	<u>408</u>	<u>12</u>	<u>724</u>
P 6 <u>25</u>	<u>251</u>	<u>15</u>	<u>738</u>	<u>25</u>	<u>428</u>	<u>15</u>	<u>729</u>
P 7 <u>30</u>	<u>288</u>	<u>18</u>	<u>740</u>	<u>30</u>	<u>440</u>	<u>18</u>	<u>734</u>
P 8		<u>21</u>	<u>742</u>			<u>21</u>	<u>738</u>
P 9		<u>24</u>	<u>744</u>			<u>24</u>	<u>740</u>
P10		<u>27</u>	<u>746</u>			<u>27</u>	<u>742</u>
P11		<u>30</u>	<u>749</u>			<u>30</u>	<u>744</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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