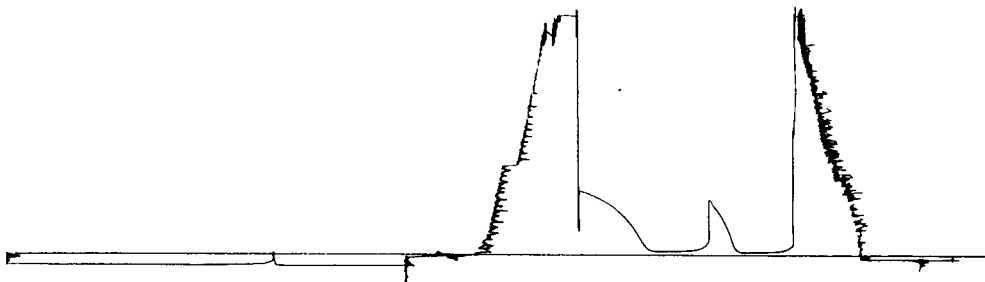


TKT # 9080

2608
DST#1

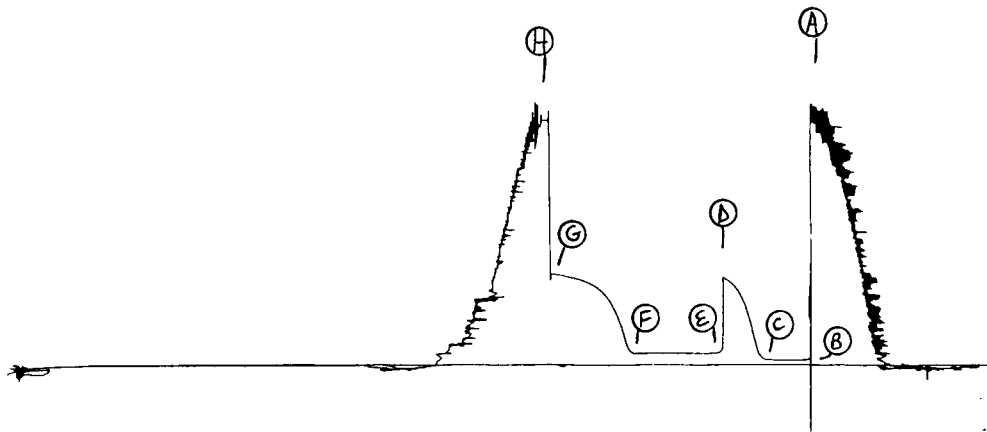
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TKT # 9080

2605
DST#1

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WESTERN TESTING CO., INC.
FORMATION TESTING

1225 . OK

TICKET No. 9080

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 13725L Formation Bart Eff. Pay Ft.

COMPANY NAME Range Oil Co. Inc. District Augusta Date 11-4-85 Customer Order No. 240 Pay Court
ADDRESS 220 West Douglas Wichita Ka 67202
LEASE AND WELL NO. Minard #3 COUNTY Butler STATE Ka Sec. 5 Twp. 27 Rge. 65
Mail Invoice To Same #3 Minard No. Copies Requested 1
Co. Name Same Address No. Copies Requested 5
Mail Charts To Same Address No. Copies Requested 5

Formation Test No. 1 Interval Tested From 2716 ft. to 2724 ft. Total Depth 2724 ft.
Packer Depth 2724 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 2719 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2714 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 2720 ft. Recorder Number 2608 Cap. 4175
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Reg #2 Drill Collar Length 180 I. D. 2.25 in.
Mud Type Chem Viscosity 42 Weight Pipe Length I. D. in.
Weight 92 Water Loss 12 cc. Drill Pipe Length 2516 I. D. 3.8 in.
Chlorides 1700 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make NO Serial Number Anchor Length 8 ft. Size 5 1/2 in.
Did Well Flow? NO Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 4 in.

Blow: Very weak to weak 1/2" first flow, fair blow second flow

Recovered 300 ft. of gas in pipe
Recovered 40 ft. of free oil
Recovered 60 ft. of slightly oil cut mud 10% oil
Recovered 60 ft. of salt water
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 6:00 A.M. Time Pick Up Tool 8:00 A.M. Time Off Location A.M.
Time Set Packer(s) 9:15 P.M. Time Started Off Bottom 12:15 P.M. Maximum Temperature 101°
Initial Hydrostatic Pressure (A) 1368 P.S.I.
Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.
Initial Closed In Period Minutes 30 (D) 476 P.S.I.
Final Flow Period Minutes 60 (E) 63 P.S.I. to (F) 73 P.S.I.
Final Closed In Period Minutes 60 (G) 487 P.S.I.
Final Hydrostatic Pressure (H) 1368 P.S.I.

COMPANY TERMS
Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.
All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.
Test Approved By [Signature] Baker
Signature of Customer or his authorized representative
Western Representative [Signature] 1127
733-4729

FIELD INVOICE 550
Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.

Pressure Data

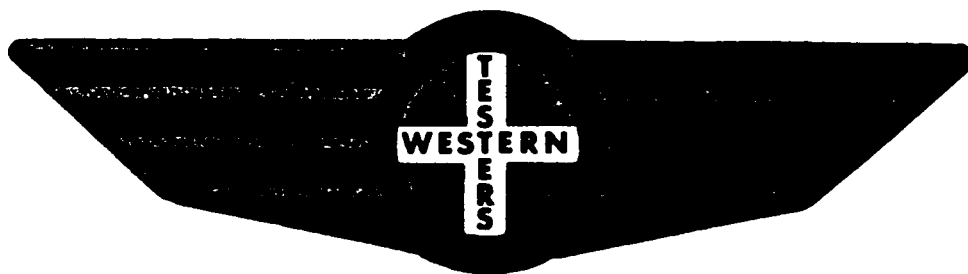
Date 11-4-85 Test Ticket No. 9080
 Recorder No. 2605 Capacity 4150 Location ? Ft.
 Clock No. _____ Elevation _____ Well Temperature 101 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1368</u> P.S.I.	<u>9:15</u> P.	<u>12:15</u> AM
B First Initial Flow Pressure	<u>29</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>30</u> P.S.I.	<u>30</u> Mins.	<u>36</u> Mins.
D Initial Closed-in Pressure	<u>469</u> P.S.I.	<u>60</u> Mins.	<u>65</u> Mins.
E Second Initial Flow Pressure	<u>62</u> P.S.I.	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>63</u> P.S.I.		
G Final Closed-in Pressure	<u>492</u> P.S.I.		
H Final Hydrostatic Mud	<u>1338</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>13</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>22</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 0	<u>29</u>	0	<u>30</u>	0	<u>62</u>	0	<u>63</u>
P 2 5	<u>(</u>	3	<u>32</u>	5	<u>(</u>	3	<u>72</u>
P 3 10	<u>(</u>	6	<u>46</u>	10	<u>(</u>	6	<u>116</u>
P 4 15	<u>(</u>	9	<u>89</u>	15	<u>(</u>	9	<u>180</u>
P 5 20	<u>(</u>	12	<u>163</u>	20	<u>(</u>	12	<u>246</u>
P 6 25	<u>29</u>	15	<u>239</u>	25	<u>62</u>	15	<u>292</u>
P 7 30	<u>30</u>	18	<u>310</u>	30	<u>(</u>	18	<u>334</u>
P 8 35		21	<u>357</u>	35	<u>(</u>	21	<u>362</u>
P 9 40		24	<u>394</u>	40	<u>62</u>	24	<u>386</u>
P10 45		27	<u>424</u>	45	<u>63</u>	27	<u>406</u>
P11 50		30	<u>444</u>	50	<u>(</u>	30	<u>424</u>
P12 55		33	<u>459</u>	55	<u>(</u>	33	<u>435</u>
P13 60		36	<u>469</u>	60	<u>(</u>	36	<u>446</u>
P14 65		39		65	<u>63</u>	39	<u>454</u>
P15 70		42		70		42	<u>462</u>
P16 75		45		75		45	<u>468</u>
P17 80		48		80		48	<u>478</u>
P18 85		51		85		51	<u>478</u>
P19 90		54		90		54	<u>483</u>
P20 95		57		95		57	<u>487</u>
100		60		100		60	<u>490</u>
						1.2	<u>492</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RANGE OIL COMPANY, INC.

LEASE & WELL NO. #3 MINARD

SEC. 5 TWP. 27S RGE. 6E

TEST NO. 1

DATE 11-4-85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-4-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 3 TEST: 1
ELEVATION (KB): 1377 FORMATION: BATLESVILLE
SECTION: 5 TOWNSHIP: 27S
RANGE: 6E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2716 FT TO: 2724 FT TOTAL DEPTH: 2724 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2724 FT SIZE: 6 3/4 IN PACKER DEPTH: 2719 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #2
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 12
CHLORIDES (P.P.M.): 1700
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2516 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 20 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 8 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD VERY WEAK
BLOW TO WEAK 1/2 INCH BLOW.
FINAL FLOW PERIOD FAIR BLOW.

RECOVERED: 300 FT OF: GAS ABOVE FLUID.
RECOVERED: 40 FT OF: FREE OIL.
RECOVERED: 60 FT OF: SLIGHTLY OIL CUT MUD (10% OIL).
RECOVERED: 60 FT OF: SALT WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 9:15 PM TIME STARTED OFF BOTTOM: 12:15 AM
WELL TEMPERATURE: 101 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1368 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 29 PSI TO (C) 30 PSI
INITIAL CLOSED IN PERIOD MIN: 36 (D) 469 PSI
FINAL FLOW PERIOD MIN: 65 (E) 62 PSI TO (F) 63 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 492 PSI
FINAL HYDROSTATIC PRESSURE (H) 1338 PSI

TKT # 9081

0

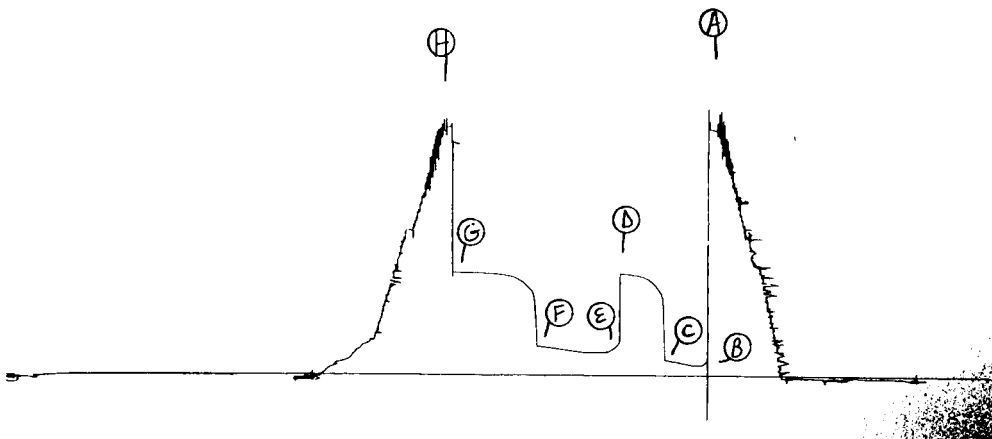
2608

DST#2

TKT # 9081

2605
DST#2

I





WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 9081

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 13725L Formation Muss Eff. Pay OK Ft.

District Augusta Date 11-5-85 Customer Order No. 240 Page Court
COMPANY NAME Range Oil Co Inc ADDRESS 220 West Douglas Wichita 67202
LEASE AND WELL NO. Minard #3 COUNTY Butler STATE Ks Sec. 5 Twp. 27 Rge. 6E
Mail Invoice To Same #3 Minard No. Copies Requested 1
Co. Name Same Address Same No. Copies Requested 5
Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. II Interval Tested From 2738 ft. to 2744 ft. Total Depth 2744 ft.
Packer Depth 2738 ft. Size 6 3/4 in. Packer Depth 2733 ft. Size 6 3/4 in.
Packer Depth 2733 ft. Size 6 3/4 in. Packer Depth 2733 ft. Size 6 3/4 in.
Depth of Selective Zone Set 2738

Top Recorder Depth (Inside) 2728 ft. Recorder Number 2605 Cap. 4150
Bottom Recorder Depth (Outside) 2739 ft. Recorder Number 2608 Cap. 4175
Below Straddle Recorder Depth 2739 ft. Recorder Number 2608 Cap. 4175

Drilling Contractor Chern Drill Collar Length 180 I. D. 2.25 in.
Mud Type Chern Viscosity 42 Weight Pipe Length 2533 I. D. 3.8 in.
Weight 9.4 Water Loss 12 cc. Drill Pipe Length 2533 I. D. 3.8 in.
Chlorides 700 P.P.M. Test Tool Length 25 ft. Tool Size 5 1/4 in.
Jars: Make NCO Serial Number 6 Anchor Length 6 ft. Size 5 1/4 in.
Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: fair blow throughout test

Recovered 180 ft. of gas in pipe
Recovered 20 ft. of free oil
Recovered 320 ft. of brackish water
Recovered 99.000 P.P.M. Sample Jars used Remarks:

Time On Location Stlby A.M. Time Pick Up Tool 8:30 P.M. Time Off Location 10:50 P.M.
Time Set Packer 8:30 A.M. Time Started Off Bottom 1810 P.M. Maximum Temperature 105°
Initial Hydrostatic Pressure 1327 P.S.I.
Initial Flow Period 30 Minutes (B) 73 P.S.I. to (C) 84 P.S.I.
Initial Closed In Period 30 Minutes (D) 560 P.S.I.
Final Flow Period 60 Minutes (E) 169 P.S.I. to (F) 158 P.S.I.
Final Closed In Period 60 Minutes (G) 560 P.S.I.
Final Hydrostatic Pressure 1327 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Baker
Signature of Customer or his authorized representative

Western Representative Kenny Kurland 1127

FIELD INVOICE

Open Hole Test \$ 550
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.
Pressure Data

Date 11-5-85 Test Ticket No. 9081
Recorder No. 2605 Capacity 4150 Location _____ Ft.
Clock No. _____ Elevation _____ Well Temperature 105 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1336</u> P.S.I.	Open Tool	<u>8:30</u>	<u>1:10</u>
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>80</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>36</u> Mins.
D Initial Closed-in Pressure	<u>551</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>122</u> P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>63</u> Mins.
F Second Final Flow Pressure	<u>152</u> P.S.I.			
G Final Closed-in Pressure	<u>557</u> P.S.I.			
H Final Hydrostatic Mud	<u>1336</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

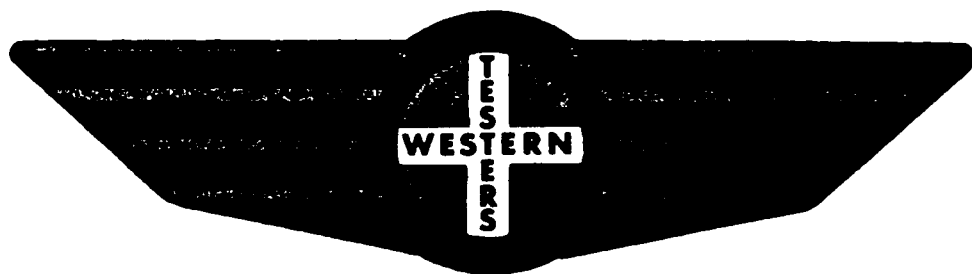
Initial Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 22 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 0	<u>54</u>	0	<u>80</u>	0	<u>122</u>	0	<u>152</u>
P 2 5	<u>54</u>	3	<u>411</u>	5	<u>(</u>	3	<u>415</u>
P 3 10	<u>54</u>	6	<u>459</u>	10	<u>)</u>	6	<u>462</u>
P 4 15	<u>57</u>	9	<u>486</u>	15	<u>)</u>	9	<u>487</u>
P 5 20	<u>65</u>	12	<u>507</u>	20	<u>)</u>	12	<u>504</u>
P 6 25	<u>72</u>	15	<u>522</u>	25	<u>122</u>	15	<u>519</u>
P 7 30	<u>80</u>	18	<u>532</u>	30	<u>125</u>	18	<u>529</u>
P 8 35		21	<u>538</u>	35	<u>130</u>	21	<u>536</u>
P 9 40		24	<u>541</u>	40	<u>135</u>	24	<u>541</u>
P10 45		27	<u>544</u>	45	<u>140</u>	27	<u>545</u>
P11 50		30	<u>547</u>	50	<u>145</u>	30	<u>548</u>
P12 55		33	<u>549</u>	55	<u>149</u>	33	<u>550</u>
P13 60		36	<u>551</u>	60	<u>152</u>	36	<u>552</u>
P14 65		39		65		39	<u>553</u>
P15 70		42		70		42	<u>554</u>
P16 75		45		75		45	<u>555</u>
P17 80		48		80		48	<u>556</u>
P18 85		51		85		51	<u>556</u>
P19 90		54		90		54	<u>557</u>
P20 95		57		95		57	<u>557</u>
100		60		100		60	<u>557</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY RANGE OIL COMPANY, INC.

LEASE & WELL NO. #3 MINARD

SEC. 5 TWP. 27S RGE. 6E TEST NO. 2 DATE 11-5-85

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 11-5-85
CUSTOMER: RANGE OIL COMPANY INC.
WELL: 3 TEST: 2
ELEVATION (KB): 1377 FORMATION: MISSISSIPPI
SECTION: 5 TOWNSHIP: 27S
RANGE: 6E COUNTY: BUTLER STATE: KANSAS
GAUGE SN #2605 RANGE: 4150 CLOCK: 12

INTERVAL TEST FROM: 2738 FT TO: 2744 FT TOTAL DEPTH: 2744 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2738 FT SIZE: 6 3/4 IN PACKER DEPTH: 2733 FT SIZE: 6 3/4 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: RANGE DRLG. RIG #2
MUD TYPE: CHEMICAL VISCOSITY: 42
WEIGHT: 9.4 WATER LOSS (CC): 12
CHLORIDES (P.P.M.): 1700
JARS - MAKE: NO SERIAL NUMBER:
DID WELL FLOW? REVERSED OUT?
DRILL COLLAR LENGTH: 180 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2533 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 6 FT SIZE: 5 1/2 OD IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: FAIR BLOW THROUGHOUT TEST.

RECOVERED: 180 FT OF: GAS ABOVE FLUID.
RECOVERED: 20 FT OF: FREE OIL.
RECOVERED: 320 FT OF: SALT WATER.
RECOVERED: FT OF: CHLORIDES 99000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 8:30 TIME STARTED OFF BOTTOM: 1:10
WELL TEMPERATURE: 105 'F
INITIAL HYDROSTATIC PRESSURE: (A) 1336 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 54 PSI TO (C) 80 PSI
INITIAL CLOSED IN PERIOD MIN: 36 (D) 551 PSI
FINAL FLOW PERIOD MIN: 60 (E) 122 PSI TO (F) 152 PSI
FINAL CLOSED IN PERIOD MIN: 63 (G) 557 PSI
FINAL HYDROSTATIC PRESSURE (H) 1336 PSI

