



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 19759

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

Elevation 1400 G6 Formation MISS - Congl. Eff. Pay Ft.

District Augusta Date 10-30-93 Customer Order No.

COMPANY NAME Range Oil Co. INC

ADDRESS 125 N. Market Suite 1120 Wichita, Ks. 67202

LEASE AND WELL NO. Scully G #1 COUNTY Butler STATE KS Sec. 11 Twp. 24 Rge. 4E

Mail Invoice To Co. Name Same Address No. Copies Requested

Mail Charts To #1 Scully G Same Address No. Copies Requested

Formation Test No. 1 Interval Tested From 2423 ft. to 2448 ft. Total Depth 2448 ft.

Packer Depth 2418 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2423 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2426 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 2448 ft. Recorder Number 13521 Cap. 4375

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor GLAVES #1 Drill Collar Length 332 I. D. 2 1/4 in.

Mud Type Chem. Viscosity 47 Weight Pipe Length I. D. in.

Weight 9.7 Water Loss 14.0 cc. Drill Pipe Length 2070 I. D. 3.8 in.

Chlorides 900 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 25 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 XH-FH

Blow: 1/2 inch decreasing to very weak surface blow

2ND Flow - surface blow died in 20 minutes

Recovered 2' ft. of clean oil

Recovered 15' ft. of oil cut mud 5% oil 95% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location 6:15 P.M. Time Pick Up Tool 7:30 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 9:10 P.M. Time Started Off Bottom 11:10 P.M. Maximum Temperature 92°

Initial Hydrostatic Pressure (A) 1223 P.S.I.

Initial Flow Period Minutes 30 (B) 101 P.S.I. to (C) 60 P.S.I.

Initial Closed In Period Minutes 30 (D) 455 P.S.I.

Final Flow Period Minutes 30 (E) 121 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 30 (G) 364 P.S.I.

Final Hydrostatic Pressure (H) 1213 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 of Customer or his authorized representative

Western Representative Stuart Stover

Thanks!

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Test Ticket No. 19759

Date \_\_\_\_\_

Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft. \_\_\_\_\_

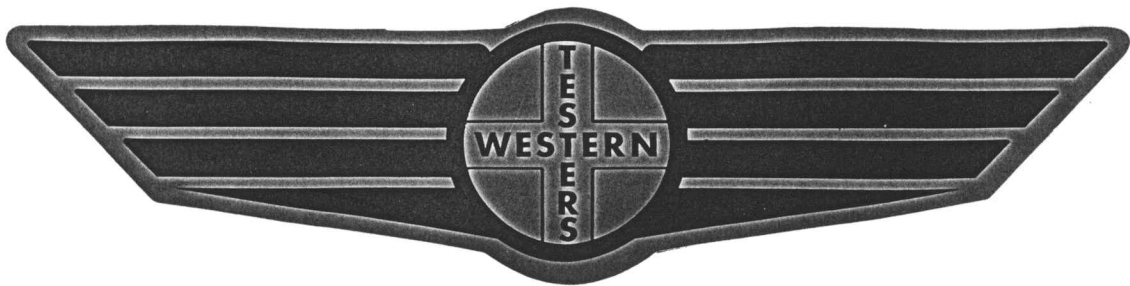
Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1227</u>	P.S.I.		M
B First Initial Flow Pressure	<u>109</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>55</u>	P.S.I.	<u>30</u> Mins.	<u>27</u> Mins.
D Initial Closed-in Pressure	<u>451</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>136</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>61</u>	P.S.I.		
G Final Closed-in Pressure	<u>362</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1213</u>	P.S.I.		

**PRESSURE BREAKDOWN**

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ 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>109</u>	0	<u>55</u>	0	<u>136</u>	0	<u>61</u>
P 2 5	<u>89</u>	3	<u>92</u>	5	<u>105</u>	3	<u>61</u>
P 3 10	<u>77</u>	6	<u>237</u>	10	<u>91</u>	6	<u>61</u>
P 4 15	<del>66</del>	9	<u>300</u>	15	<u>79</u>	9	<u>67</u>
P 5 20	<del>61</del>	12	<u>336</u>	20	<u>67</u>	12	<u>81</u>
P 6 25	<u>57</u>	15	<u>372</u>	25	<u>63</u>	15	<u>132</u>
P 7 30	<u>55</u>	18	<u>409</u>	30	<u>61</u>	18	<u>213</u>
P 8 35		21	<u>421</u>	35		21	<u>271</u>
P 9 40		24	<u>441</u>	40		24	<u>302</u>
P10 45		27	<u>451</u>	45		27	<u>336</u>
P11 50		30		50		30	<u>362</u>
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10/30/93  
CUSTOMER : RANGE OIL COMPANY, INC.  
WELL : #1 TEST: 1  
ELEVATION: 1400 GL  
SECTION : 11  
RANGE : 4E COUNTY: BUTLER  
GAUGE SN#: 13548 RANGE : 4075  
TICKET : 19759  
LEASE : SCULLY B  
GEOLOGIST: BLAIR  
FORMATION: MISSISSIPPI-CONGLOM.  
TOWNSHIP : 24S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2423.00 ft TO: 2448.00 ft TVD: 2448.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2426.0 ft 2448.0 ft  
TEMPERATURE: 92.0  
DRILL COLLAR LENGTH: 332.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 2070.0 ft I.D.: 3.800 in  
TEST TOOL LENGTH : 21.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 25.0 ft ANCHOR SIZE: 5.500 in  
SURFACE CHOKE SIZE : 0.750 in BOTTOM CHOKE SIZE: 0.750 in  
MAIN HOLE SIZE : 7.875 in TOOL JOINT SIZE : 4.5XH-FH  
PACKER DEPTH: 2418.0 ft SIZE: 6.750 in  
PACKER DEPTH: 2423.0 ft SIZE: 6.750 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in  
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : GLAVES RIG 1  
MUD TYPE : CHEMICAL VISCOSITY : 47.00 cp  
WEIGHT : 9.700 ppg WATER LOSS: 14.000 cc  
CHLORIDES : 900 ppm  
JARS-MAKE :  
DID WELL FLOW?: NO SERIAL NUMBER:  
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD 1/2 INCH BLOW DECREASING TO A  
VERY WEAK SURFACE BLOW. FINAL FLOW PERIOD SURFACE  
BLOW-DIED IN 20 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	100.0	0.0	0.0	0.0	CLEAN OIL
15.0	5.0	0.0	0.0	95.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0135 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	2.0063 STB/D
MUD VOLUME:	0.0701 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0836 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1223.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	101.00	60.00
INITIAL SHUT-IN	30.00		455.00
FINAL FLOW	30.00	121.00	70.00
FINAL SHUT-IN	30.00		364.00

FINAL HYDROSTATIC PRESSURE: 1213.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1227.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	109.00	55.00
INITIAL SHUT-IN	27.00		451.00
FINAL FLOW	30.00	136.00	61.00
FINAL SHUT-IN	30.00		362.00

FINAL HYDROSTATIC PRESSURE: 1213.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/30/93	TICKET	: 19759
CUSTOMER	: RANGE OIL COMPANY, INC.	LEASE	: SCULLY B
WELL	: #1	TEST:	1
ELEVATION	: 1400 GL	GEOLOGIST	: BLAIR
SECTION	: 11	FORMATION	: MISSISSIPPI-CONGLOM.
RANGE	: 4E	TOWNSHIP	: 24S
GAUGE SN#	: 13548	COUNTY	: BUTLER
		RANGE	: 4075
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	109.00	109.00
5.00	87.00	-22.00
10.00	77.00	-10.00
15.00	66.00	-11.00
20.00	61.00	-5.00
25.00	57.00	-4.00
30.00	55.00	-2.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	92.00	92.00	0.00
6.00	237.00	145.00	0.00
9.00	300.00	63.00	0.00
12.00	336.00	36.00	0.00
15.00	372.00	36.00	0.00
18.00	409.00	37.00	0.00
21.00	421.00	12.00	0.00
24.00	441.00	20.00	0.00
27.00	451.00	10.00	0.00

FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	136.00	136.00
5.00	105.00	-31.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

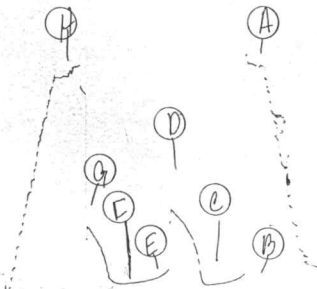
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
10.00	91.00	-14.00
15.00	79.00	-12.00
20.00	67.00	-12.00
25.00	63.00	-4.00
30.00	61.00	-2.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	61.00	61.00	0.00
6.00	61.00	0.00	0.00
9.00	67.00	6.00	0.00
12.00	81.00	14.00	0.00
15.00	132.00	51.00	0.00
18.00	213.00	81.00	0.00
21.00	271.00	58.00	0.00
24.00	302.00	31.00	0.00
27.00	336.00	34.00	0.00
30.00	362.00	26.00	0.00

13548  
19759

TK# 19959  
I.

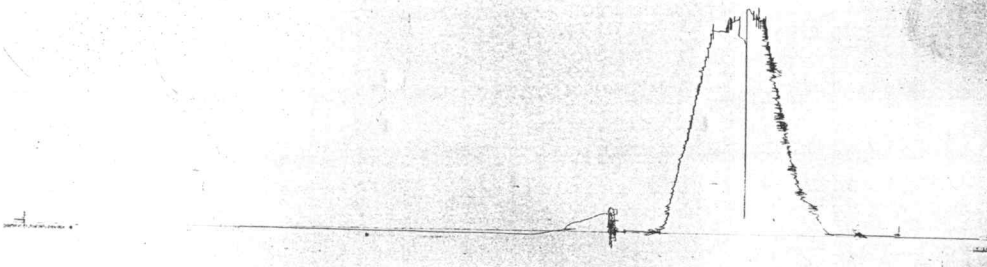


13521

19759

TLX# 19759

0.





WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 19760

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 1400 GL Formation Mississippi Eff. Pay Ft.

District Augusta Date 10-30-93 Customer Order No.

COMPANY NAME Range Oil Co. INC

ADDRESS 125 N. Market Suite 1120 Wichita KS 67202

LEASE AND WELL NO Scully G #1 COUNTY Butler STATE KS Sec. 11 Twp 24 Rge. 4E

Mail Invoice To Co. Name # Scully Jr Same Address No. Copies Requested

Mail Charts To Co. Name # Scully Jr Same Address No. Copies Requested

Formation Test No. 2 Interval Tested From 2448 ft. to 2458 ft. Total Depth 2458 ft.

Packer Depth 2443 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 2448 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2451 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 2458 ft. Recorder Number 13521 Cap. 4375

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor GLAVES #1 Drill Collar Length 332 I. D. 2 1/4 in.

Mud Type Chemical Viscosity 43 Weight Pipe Length I. D. in.

Weight 9.9 Water Loss 12.0 cc. Drill Pipe Length 2095 I. D. 3.8 in.

Chlorides 1400 P.P.M. Test Tool Length 21 ft. Tool Size 5 1/2 in.

Jars: Make - Serial Number - Anchor Length 10 ft. Size 5 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 2 7/8 in. Tool Joint Size 4 1/2 XH-FH in.

Blow: 1/2 inch decreasing to surface blow

2nd flow - surface blow DICO IN 15 minutes

Recovered 15 ft. of Dalg mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

Time On Location A.M. P.M. Time Pick Up Tool 5:15 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 6:40 P.M. Time Started Off Bottom 8:40 A.M. Maximum Temperature 91°

Initial Hydrostatic Pressure (A) 1233 P.S.I.

Initial Flow Period Minutes 30 (B) 40 P.S.I. to (C) 40 P.S.I.

Initial Closed In Period Minutes 30 (D) 619 P.S.I.

Final Flow Period Minutes 30 (E) 121 P.S.I. to (F) 70 P.S.I.

Final Closed In Period Minutes 30 (G) 609 P.S.I.

Final Hydrostatic Pressure (H) 1211 P.S.I.

COMPANY TERMS

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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] Signature of Customer or his authorized representative

Western Representative Stuart Stover

Thanks!

FIELD INVOICE

Table with 2 columns: Item Name and Price. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

# WESTERN TESTING CO., INC.

## Pressure Data

Test Ticket No. 19960

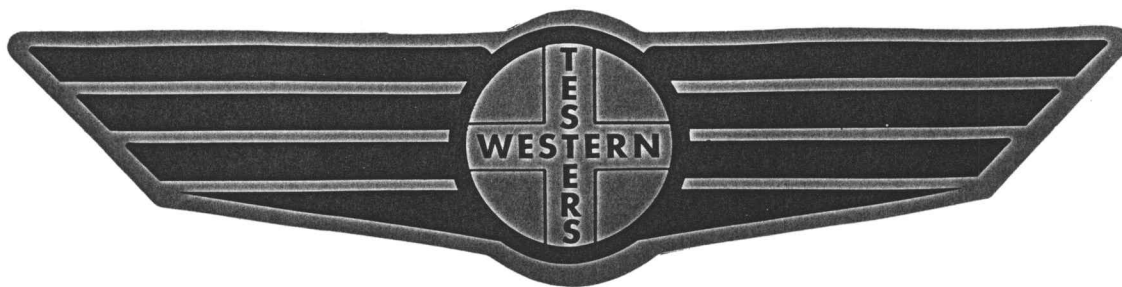
Date \_\_\_\_\_ Recorder No. \_\_\_\_\_ Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.  
 Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
				Mins.	Mins.
A Initial Hydrostatic Mud	<u>1248</u>	P.S.I.	Open Tool	<u>30</u>	<u>30</u>
B First Initial Flow Pressure	<u>30</u>	P.S.I.	First Flow Pressure	<u>30</u>	<u>30</u>
C First Final Flow Pressure	<u>31</u>	P.S.I.	Initial Closed-in Pressure	<u>30</u>	<u>30</u>
D Initial Closed-in Pressure	<u>1023</u>	P.S.I.	Second Flow Pressure	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>146</u>	P.S.I.	Final Closed-in Pressure	<u>30</u>	<u>30</u>
F Second Final Flow Pressure	<u>75</u>	P.S.I.			
G Final Closed-in Pressure	<u>609</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1201</u>	P.S.I.			

### PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: _____ Inc.	of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc.	of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc.	of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: _____ Inc.	of <u>3</u> mins. and a final inc. of <u>0</u> Min.
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	<u>30</u>	0	<u>31</u>	0	<u>146</u>	0	<u>75</u>	
P 2 5	<u>30</u>	3	<u>334</u>	3	<u>109</u>	3	<u>111</u>	
P 3 10	<u>30</u>	6	<u>470</u>	6	<u>90</u>	6	<u>460</u>	
P 4 15	<u>30</u>	9	<u>531</u>	9	<u>85</u>	9	<u>500</u>	
P 5 20	<u>31</u>	12	<u>556</u>	12	<u>79</u>	12	<u>523</u>	
P 6 25	<u>31</u>	15	<u>572</u>	15	<u>74</u>	15	<u>547</u>	
P 7 30	<u>31</u>	18	<u>588</u>	18	<u>75</u>	18	<u>564</u>	
P 8 35		21	<u>599</u>	21		21	<u>576</u>	
P 9 40		24	<u>609</u>	24		24	<u>588</u>	
P 10 45		27	<u>615</u>	27		27	<u>599</u>	
P 11 50		30	<u>623</u>	30		30	<u>609</u>	
P 12 55		33		33		33		
P 13 60		36		36		36		
P 14 65		39		39		39		
P 15 70		42		42		42		
P 16 75		45		45		45		
P 17 80		48		48		48		
P 18 85		51		51		51		
P 19 90		54		54		54		
P 20 95		57		57		57		
100		60		60		60		

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10/30/93	TICKET : 19760
CUSTOMER : RANGE OIL COMPANY, INC.	LEASE : SCULLY B
WELL : #1 TEST: 2	GEOLOGIST: BLAIR
ELEVATION: 1400 GL	FORMATION: MISSISSIPPI
SECTION : 11	TOWNSHIP : 24S
RANGE : 4E COUNTY: BUTLER	STATE : KS
GAUGE SN#: 13548 RANGE : 4075	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2448.00 ft	TO: 2458.00 ft	TVD: 2458.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 2451.0 ft	2458.0 ft	
TEMPERATURE: 91.0		
DRILL COLLAR LENGTH: 332.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2095.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 21.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 10.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH-FH
PACKER DEPTH: 2443.0 ft	SIZE:	6.750 in
PACKER DEPTH: 2448.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : GLAVES RIG 1	
MUD TYPE : CHEMICAL	VISCOSITY : 43.00 cp
WEIGHT : 9.900 ppg	WATER LOSS: 12.000 cc
CHLORIDES : 1400 ppm	
JARS-MAKE :	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

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INITIAL FLOW PERIOD 1/2 INCH BLOW DECREASING TO A SURFACE BLOW. FINAL FLOW PERIOD SURFACE BLOW - DIED IN 15 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.0738 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0738 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1233.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	40.00
INITIAL SHUT-IN	30.00		619.00
FINAL FLOW	30.00	121.00	70.00
FINAL SHUT-IN	30.00		609.00

FINAL HYDROSTATIC PRESSURE: 1211.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1248.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	30.00	31.00
INITIAL SHUT-IN	30.00		623.00
FINAL FLOW	30.00	146.00	75.00
FINAL SHUT-IN	30.00		609.00

FINAL HYDROSTATIC PRESSURE: 1201.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/30/93	TICKET : 19760
CUSTOMER : RANGE OIL COMPANY, INC.	LEASE : SCULLY B
WELL : #1	TEST: 2
ELEVATION: 1400 GL	GEOLOGIST: BLAIR
SECTION : 11	FORMATION: MISSISSIPPI
RANGE : 4E	TOWNSHIP : 24S
COUNTY: BUTLER	STATE : KS
Gauge SN#: 13548	RANGE : 4075
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	30.00	30.00
5.00	30.00	0.00
10.00	30.00	0.00
15.00	30.00	0.00
20.00	31.00	1.00
25.00	31.00	0.00
30.00	31.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	334.00	334.00	0.00
6.00	470.00	136.00	0.00
9.00	531.00	61.00	0.00
12.00	556.00	25.00	0.00
15.00	572.00	16.00	0.00
18.00	588.00	16.00	0.00
21.00	599.00	11.00	0.00
24.00	609.00	10.00	0.00
27.00	615.00	6.00	0.00
30.00	623.00	8.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	146.00	146.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	107.00	-39.00
10.00	90.00	-17.00
15.00	85.00	-5.00
20.00	79.00	-6.00
25.00	77.00	-2.00
30.00	75.00	-2.00

FINAL SHUT IN

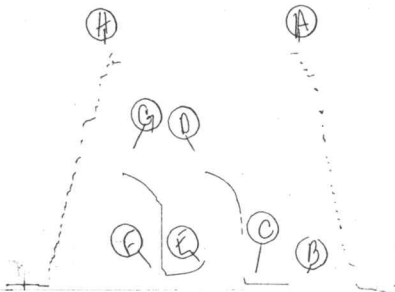
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	111.00	111.00	0.00
6.00	460.00	349.00	0.00
9.00	500.00	40.00	0.00
12.00	523.00	23.00	0.00
15.00	547.00	24.00	0.00
18.00	564.00	17.00	0.00
21.00	576.00	12.00	0.00
24.00	588.00	12.00	0.00
27.00	599.00	11.00	0.00
30.00	609.00	10.00	0.00

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