WESTERN TESTERS

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

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

Elevation 1181 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 22661

Date 11-21-77 Sec. 15 Twp. 33S Range 4E County Cowley State Kansas

Test Approved by Stephen M. Kreidler Western Representative Norman Allen

Formation Test No. 2 O.K. X Misrun - Interval Tested From 2577' to 2595' Total Depth 2595'

Size Main Hole 7-7/8 Rat Hole - Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 2572 Ft. Size 6-3/4 Bottom Packer Depth 2577 Ft. Size 6-3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 18 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2588 Ft. Clock No. 8474 Depth 2591 Ft. Clock No. 6896

Top Make Kuster Cap. 4500 No. 3085 Inside ~~Outside~~ Bottom Make Kuster Cap. 3150 No. 1564 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 11:28 AM

Tool Open I.F.P. From 11:30 M. to 12:00P M. - Hr. 30 Min. From (B) 3 P.S.I. To (C) 14 P.S.I.

Tool Closed I.C.I.P. From 12:00 M. to 12:30 M. - Hr. 30 Min (D) 727 P.S.I.

Tool Open F.F.P. From 12:30 M. to 1:00 M. - Hr. 30 Min. From (E) 49 P.S.I. To (F) 37 P.S.I.

Tool Closed F.C.I.P. From 1:00 M. to 1:45 M. - Hr. 45 Min. (G) 781 P.S.I.

Initial Hydrostatic Pressure (A) 1391 P.S.I. Final Hydrostatic Pressure (H) 1383 P.S.I. Maximum Temp. 108 o

INFORMATION

BLOW Very weak throughout test.

Did Well Flow - Yes X No Recovery Total Ft. 70' Drilling with slight show of oil throughout fluid.

Reversed Out - Yes X No Mud Type Chem Viscosity 35 Weight 9.3 Water Loss 10.8 cc. Chlorides 1600 P.P.M.

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Range Drlg. Co. Length Drill Pipe? 2507 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 300 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½FH In. Length Drill Collars 250 Ft. I.D. Drill Collars 2¼ In.

Tool Joint Size 4½XH In. Length D.S.T. Tool 38 Ft.

Remarks:

Tool pulled loose after 1½ hr. working pipe.
Fluid ground out a trace of oil less than 1%.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-21-77 Test Ticket No. 22661

Recorder No. 3085 Capacity 4500 Location 2588 Ft.

Clock No. 8474 Elevation 1181 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1391 P.S.I.	Open Tool	11:28A M	
B First Initial Flow Pressure	3 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	14 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	727 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	49 P.S.I.	Final Closed-in Pressure	45 Mins.	42 Mins.
F Second Final Flow Pressure	37 P.S.I.			
G Final Closed-in Pressure	781 P.S.I.			
H Final Hydrostatic Mud	1383 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 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 0 Min.

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

Final Shut-In
Breakdown: 14 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	3		0	14		0	49		0	37
P 2	5	5		3	43		5	33		3	39
P 3	10	6		6	109		10	34		6	77
P 4	15	8		9	226		15	34		9	190
P 5	20	11		12	388		20	36		12	351
P 6	25	12		15	516		25	36		15	475
P 7	30	14		18	597		30	37		18	552
P 8				21	654					21	609
P 9				24	697					24	649
P10				27	727					27	682
P11										30	706
P12										33	730
P13										36	748
P14										39	766
P15										42	781
P16											
P17											
P18											
P19											
P20											

TK# 226161

I.

