WESTERN TESTERS

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

Company Watson Petroleum, Inc. Lease & Well No. Warren #2

Elevation - Formation Stalnaker Effective Pay - Ft. Ticket No. 21762

Date 12-20-77 Sec. 1 Twp. 35S Range 1E County Sumner State Kansas

Test Approved by L. A. Watson Western Representative Sam McClune

Formation Test No. 1 O.K. Misrun Interval Tested From 2355' to 2377' Total Depth 2377'

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

Top Packer Depth 2350 Ft. Size 6 3/4 Bottom Packer Depth 2355 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 22 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 2370 Ft. Clock No. 6866 Depth 2373 Ft. Clock No. 9102

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 10:49P M

Tool Open I.F.P. From 10:50 M. to 11:20 M. - Hr. 30 Min. From (B) 38 P.S.I. To (C) 48 P.S.I.

Tool Closed I.C.I.P. From 11:20 M. to 11:50 M. - Hr. 30 Min (D) 75 P.S.I.

Tool Open F.F.P. From 11:50 M. to 12:20 M. - Hr. 30 Min. From (E) 75 P.S.I. To (F) 97 P.S.I.

Tool Closed F.C.I.P. From 12:20 M. to 12:50 M. - Hr. 30 Min. (G) 665 P.S.I.

Initial Hydrostatic Pressure (A) 1121 P.S.I. Final Hydrostatic Pressure (H) 1114 P.S.I. Maximum Temp. 102

INFORMATION

BLOW Strong bottom of bucket.

Did Well Flow - Yes X No Recovery Total Ft. 270' very heavy oil and gas cut mud, 1400' gas in pipe.

Reversed Out - Yes X No Mud Type Chem Viscosity 41 Weight 9.2 Water Loss - cc. Chlorides 3,100 ppm

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 DNB #3 Length Drill Pipe? 1405 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½FH In.

Length Weight Pipe 900 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4½XH In. Length Drill Collars 30 Ft. I.D. Drill Collars 2.25 In.

Tool Joint Size 4½XH In. Length D.S.T. Tool 42 Ft.

Remarks:

WESTERN TESTING CO., INC.
Pressure Data

Date 12-20-77 Test Ticket No. 21762

Recorder No. 3085 Capacity 4500 Location 2370 Ft.

Clock No. 6866 Elevation - Well Temperature 102 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1121 P.S.I.	Open Tool	10:49P M	
B	First Initial Flow Pressure	38 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	48 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	75 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	75 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	97 P.S.I.			
G	Final Closed-in Pressure	665 P.S.I.			
H	Final Hydrostatic Mud	1114 P.S.I.			

PRESSURE BREAKDOWN

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

Point	Mins.	Press.
P 1	0	38
P 2	5	30
P 3	10	31
P 4	15	33
P 5	20	38
P 6	25	43
P 7	30	48
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point	Minutes	Press.
	0	48
	3	51
	6	55
	9	57
	12	60
	15	61
	18	65
	21	67
	24	72
	27	74
	30	75

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

Point	Minutes	Press.
	0	75
	5	77
	10	80
	15	84
	20	88
	25	93
	30	97

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

Point	Minutes	Press.
	0	97
	3	196
	6	337
	9	450
	12	519
	15	565
	18	595
	21	623
	24	640
	27	655
	30	665

TKt# 21762
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