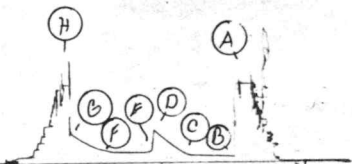


TKC # 1972
I



Company Range Oil Company, Inc. Lease & Well No. Meadows "E" #1
 Elevation 1122 Kelly Bushing Formation Admire Effective Pay -- Ft. Ticket No. 1972
 Date 3/13/79 Sec. 22 Twp. 33S Range 4E County Cowley State Kansas
 Test Approved by Stephen M. Kreidler Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 624' ft. to 645' ft. Total Depth 645' ft.
 Packer Depth 619 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 624 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --
 Top Recorder Depth (Inside) 634 ft. Recorder Number 1564 Cap. 3150
 Bottom Recorder Depth (Outside) 637 ft. Recorder Number 1562 Cap. 3150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Range Oil Co. #1 Drill Collar Length 252 I. D. 2 1/4 in.
 Mud Type chemical Viscosity 37 Weight Pipe Length -- I. D. - in.
 Weight 8.6 Water Loss Unknown cc. Drill Pipe Length 351' I. D. 3.8 in.
 Chlorides Unknown P.P.M. Test Tool Length 41' in. Tool Size 4 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 21' ft. Size 4 1/2 in.
 Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 IF in.

Blow: Weak increasing to fair blow then decreasing back to weak blow on initial flow period/
 very weak blow on final flow.

Recovered 25 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:03 A.M. Time Started Off Bottom 7:03 A.M. Maximum Temperature 82
=P.M. P.M.
 Initial Hydrostatic Pressure (A) 313 P.S.I.
 Initial Flow Period Minutes 30 (B) 22 P.S.I. to (C) 30 P.S.I.
 Initial Closed In Period Minutes 30 (D) 127 P.S.I.
 Final Flow Period Minutes 30 (E) 45 P.S.I. to (F) 42 P.S.I.
 Final Closed In Period Minutes 30 (G) 112 P.S.I.
 Final Hydrostatic Pressure (H) 307 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 3/13/ 79 Test Ticket No. 1972
 Recorder No. 1564 Capacity 3150 Location 634 Ft.
 Clock No. -- Elevation 1122 Kelly Bushing Well Temperature 82 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	313	P.S.I.	5:03A	M
B First Initial Flow Pressure	22	P.S.I.	30	Mins.
C First Final Flow Pressure	30	P.S.I.	30	Mins.
D Initial Closed-in Pressure	127	P.S.I.	30	Mins.
E Second Initial Flow Pressure	45	P.S.I.	30	Mins.
F Second Final Flow Pressure	42	P.S.I.	30	Mins.
G Final Closed-in Pressure	112	P.S.I.		
H Final Hydrostatic Mud	307	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: 10 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	22	0	30	0	45	0	42
P 2 5	26	3	36	5	42	3	47
P 3 10	25	6	43	10	40	6	50
P 4 15	26	9	53	15	42	9	52
P 5 20	27	12	65	20	42	12	59
P 6 25	29	15	74	25	42	15	65
P 7 30	30	18	87	30	42	18	73
P 8		21	101			21	82
P 9		24	112			24	90
P10		27	127			27	102
P11						30	112
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							