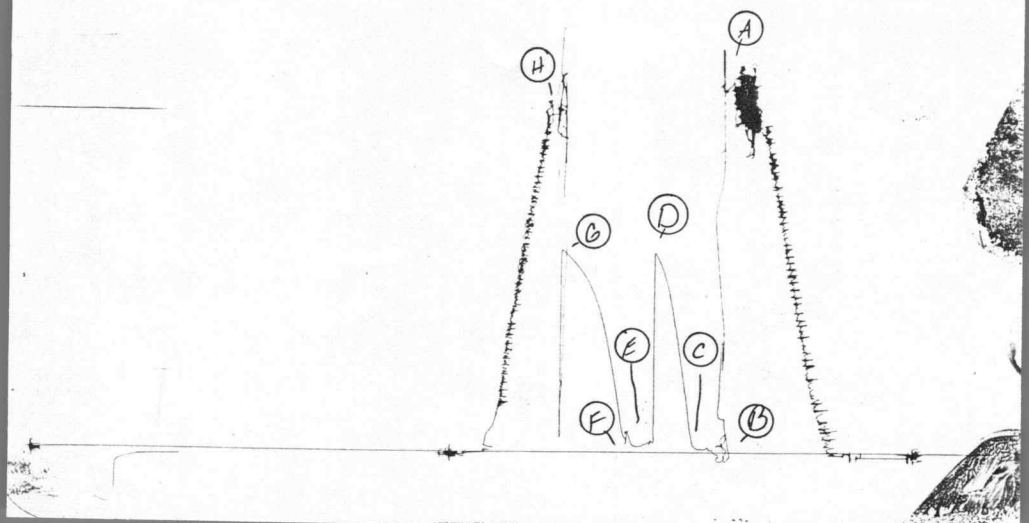


TK# 3889
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Company Chief Drilling Company, Inc. Lease & Well No. Toon #1
 Elevation 1373 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 3889
 Date 10/3/79 Sec. 2 Twp. 28S Range 2W County Sedgwick State Kansas
 Test Approved by Bill G. Lahar Western Representative W. K. Hager

Formation Test No. 1 Interval Tested from 3519 ft. to 3525 ft. Total Depth 3525 ft.
 Packer Depth 3514 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3519 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3504 ft. Recorder Number 1558 Cap. 4200
 Bottom Recorder Depth (Outside) 3509 ft. Recorder Number 1559 Cap. 4200
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor B. & B. Drilling Co. #2 Drill Collar Length - I. D. - in.
 Mud Type chemical Viscosity 58 Weight Pipe Length 120 I. D. 3 in.
 Weight 9.7 Water Loss 12.8 cc. Drill Pipe Length 3372 I. D. 3.8 in.
 Chlorides 5,300 P.P.M. Test Tool Length 33 ft. Tool Size 5 1/2 in.
 Jars: Make -- Serial Number -- Anchor Length 6 ft. Size 5 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 4 1/2 FH in.

Blow: Initial surge only on initial flow/no blow on final flow.

Recovered 2 ft. of mud with a very slight trace of oil
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 5:05 ~~PM~~ ^{A.M.} Time Started Off Bottom 7:00 ~~PM~~ ^{A.M.} Maximum Temperature 116
 Initial Hydrostatic Pressure (A) 2002 P.S.I.
 Initial Flow Period Minutes 15 (B) 30 P.S.I. to (C) 30 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1077 P.S.I.
 Final Flow Period Minutes 15 (E) 57 P.S.I. to (F) 74 P.S.I.
 Final Closed In Period Minutes 48 (G) 1094 P.S.I.
 Final Hydrostatic Pressure (H) 1901 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 10/3/79 Test Ticket No. 3889
 Recorder No. 1558 Capacity 4200 Location 3504 Ft.
 Clock No. -- Elevation 1373 Kelly Bushing Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2002	P.S.I.	5:05A	M
B First Initial Flow Pressure	30	P.S.I.	15	Mins. 15 Mins.
C First Final Flow Pressure	30	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	1077	P.S.I.	15	Mins. 15 Mins.
E Second Initial Flow Pressure	57	P.S.I.	55	Mins. 48 Mins.
F Second Final Flow Pressure	74	P.S.I.		
G Final Closed-in Pressure	1094	P.S.I.		
H Final Hydrostatic Mud	1901	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

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

Second Flow Pressure
 Breakdown: 3 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 16 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	30	0	30	0	57	0	74
P 2 5	15	3	120	5	53	3	184
P 3 10	11	6	300	10	32	6	329
P 4 15	30	9	443	15	74	9	460
P 5		12	589			12	569
P 6		15	708			15	668
P 7		18	839			18	754
P 8		21	929			21	818
P 9		24	994			24	873
P10		27	1044			27	914
P11		30	1077			30	950
P12						33	981
P13						36	1010
P14						39	1036
P15						42	1059
P16						45	1077
P17						48	1094
P18							
P19							
P20							