



Home Office: Wichita, Kansas 67201

P. O. Box 1599

(316) 838-0601

Company Petroleum Energy, Inc. Lease & Well No. Nagel #1
 Elevation ----- Formation Arbuckle Effective Pay ----- Fr. Ticker No. 22954
 Date 3/17/78 Sec. 14 Twp. 17s Range 11w County Barton State Kansas
 Test Approved by Jim Jessee Western Representative Vernon Wondra
 Formation Test No. 2 O.K. Misrun Interval Tested From 3323' to 3337' Total Depth 3337'
 Size Main Hole 7 7/8 Rat Hole Conv. B.T. Damaged Yes No Conv. B.T. Damaged Yes No
 Top Packer Depth 3318 Ft. Size 6 3/4 Bottom Packer Depth 3323 Ft. Size 6 3/4
 Straddle Conv. B.T. Damaged Yes No Packer Depth ----- Ft. Size -----
 Tool Size 5 1/2 OD Tool Joint Size 4 1/2 FH Anchor Length 14 Ft. Size 5 1/2 Od Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.
 RECORDERS Depth 3327 Ft. Clock No. 10412 Depth 3330 Ft. Clock No. 4763
 Top Make Kuster Cap. 4200 No. 1563 ^{Inside} Bottom Make Kuster Cap. 3150 No. 1565 ^{Outside}
 Below Straddle: Depth ----- Rec. No. ----- Clock No. ----- ^{Inside} Depth ----- Ft. Rec. No. ----- Clock No. ----- ^{Outside}
 Time Set Packer 7:38A M
 Tool Open I.F.P. From 7:40 M. to 8:10 M. -- Hr. 30 Min. From (B) 55 P.S.I. To (C) 194 P.S.I.
 Tool Closed I.C.I.P. From 8:10 M. to 8:40 M. -- Hr. 30 Min (D) 1054 P.S.I.
 Tool Open F.F.P. From 8:40 M. to 9:40 M. -- Hr. 60 Min. From (E) 201 P.S.I. To (F) 372 P.S.I.
 Tool Closed F.C.I.P. From 9:40 M. to 10:10 M. -- Hr. 30 Min. (G) 1021 P.S.I.
 Initial Hydrostatic Pressure (A) 1859 P.S.I. Final Hydrostatic Pressure (H) 1831 P.S.I. Maximum Temp. 116

INFORMATION

BLOW Strong blow throughout test.Did Well Flow Yes No Recovery Total Fr. 30' clean oil ; 838' waterReversed Out Yes No Mud Type starch Viscosity 52 Weight 10.1 Water Loss 9.2 cc. Chlorides 65,000 ppmEXTRA 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 L.D. Drlg. Rig #1 Length Drill Pipe? 277 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4 1/2 FH In.Length Weight Pipe 525 Ft. I.D. Weight Pipe 2.7 In. Tool Joint Size 4 1/2 FH In. Length Drill Collars --- Ft. I.D. Drill Collars --- In.Tool Joint Size --- In. Length D.S.T. Tool 35 Ft.

Remarks:

WESTERN TESTING CO., INC.

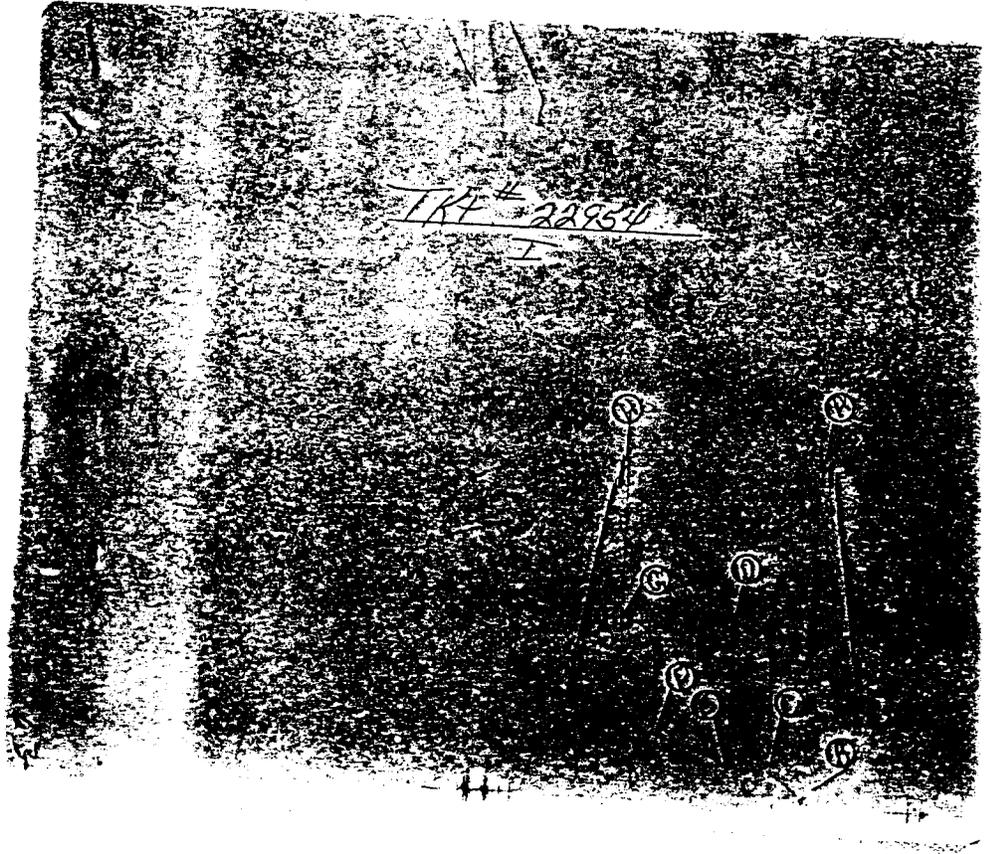
Pressure Data

Date 3-17-78 Test Ticket No. 22954
 Recorder No. 1563 Capacity 4200 Location 3327 Ft.
 Clock No. 10412 Elevation ----- Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1859 P.S.I.	Open Tool	7:38 AM	
B First Initial Flow Pressure	55 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	194 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1054 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	201 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	372 P.S.I.			
G Final Closed-in Pressure	1021 P.S.I.			
H Final Hydrostatic Mud	1831 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In		
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>10</u> 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	55	0	194	0	201	0	372
P 2	5	65	3	826	5	218	3	853
P 3	10	95	6	928	10	247	6	919
P 4	15	125	9	972	15	267	9	951
P 5	20	151	12	997	20	280	12	972
P 6	25	176	15	1015	25	293	15	986
P 7	30	194	18	1025	30	307	18	996
P 8			21	1034	35	319	21	1004
P 9			24	1042	40	33;	24	1013
P10			27	1050	45	345	27	1019
P11			30	1054	50	356	30	1021
P12					55	367		
P13					60	372		
P14								
P15								
P16								
P17								
P18								
P19								
P20								



#1 Nagel, #2, 14-17S-11W, Arbuckle, 3323-37
30' CO, 838' W

NA stabilized

