WESTERN TESTERS

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Thorton Anderson Lease & Well No. Miller #1

Elevation -------- Formation ------- Effective Pay ------- Ft. Ticket No. 511

Date 8/11/78 Sec. 27 Twp. 29S Range 12W County Pratt State Kansas

Test Approved by Claude Sheats, Jr. Western Representative Jim Wondra

Formation Test No. 1 Interval Tested from 4238' ft. to 4300' ft. Total Depth 4300' ft.

Packer Depth 4227 ft. Size 6 3/4 in. Packer Depth 4238' ft. Size 6 3/4 in.

Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ----

Top Recorder Depth (Inside) 4260 ft. Recorder Number 969 Cap. 4150

Bottom Recorder Depth (Outside) 4263 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. --

Drilling Contractor Gabbert - Jones #9 Drill Collar Length 218 I. D. 2¼ in.

Mud Type starch Viscosity 44 Weight Pipe Length -- I. D. -- in.

Weight 9.5 Water Loss 21 cc. Drill Pipe Length 3985 I. D. 3.8 in.

Chlorides 39,000 P.P.M. Test Tool Size 5½ in. Tool Joint Size 4½FH in.

Jars: Make WTC Serial Number 410 Anchor Length 62 ft. Size 5½OD 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.

Blow: Very weak blow throughout test.

Recovered 25 ft. of drilling mud with specks of oil

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:55 ~~A.M.~~ P.M. Time Started Off Bottom 2:55 ~~A.M.~~ P.M. Maximum Temperature 131

Initial Hydrostatic Pressure ..... (A) 2169 P.S.I.

Initial Flow Period ..... Minutes ____ (B) 74 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period ..... Minutes ____ (D) 82 P.S.I.

Final Flow Period ..... Minutes ____ (E) 72 P.S.I. to (F) 54 P.S.I.

Final Closed In Period ..... Minutes ____ (G) 86 P.S.I.

Final Hydrostatic Pressure ..... (H) 2158 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/11/78 Test Ticket No. 511

Recorder No. 969 Capacity 4150 Location 4260 Ft

Clock No. -- Elevation -- Well Temperature 131 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2169 P.S.I.		Open Tool	12:55P M	
B	First Initial Flow Pressure	74 P.S.I.		First Flow Pressure	30 Mins.	30 Mins
C	First Final Flow Pressure	52 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins
D	Initial Closed-in Pressure	82 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins
E	Second Initial Flow Pressure	72 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins
F	Second Final Flow Pressure	54 P.S.I.				
G	Final Closed-in Pressure	86 P.S.I.				
H	Final Hydrostatic Mud	2158 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	74	0	52	0	72	0	54
P 2 5	56	3	55	5	57	3	55
P 3 10	53	6	58	10	54	6	60
P 4 15	53	9	62	15	54	9	63
P 5 20	52	12	66	20	54	12	66
P 6 25	52	15	68	25	54	15	70
P 7 30	52	18	72	30	54	18	72
P 8		21	76			21	75
P 9		24	78			24	79
P10		27	80			27	82
P11		30	82			30	86
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

JKt# 511

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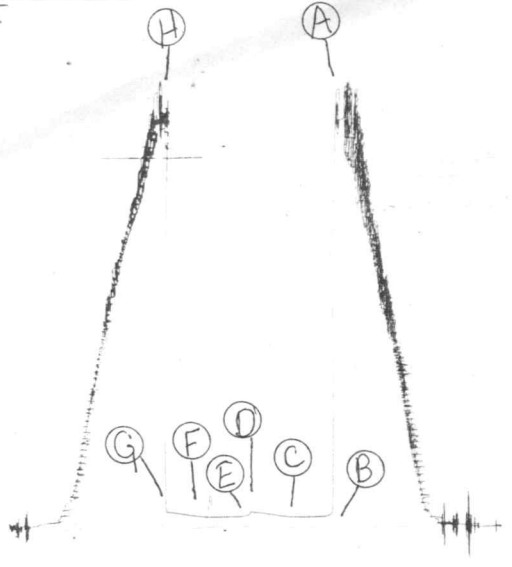


WESTERN TESTERS

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Company Thorton E. Anderson Lease & Well No. Miller #1

Elevation ------ Formation Simpson Effective Pay ------ Ft. Ticket No. 512

Date 8/14/78 Sec. 27 Twp. 29S Range 12W County Pratt State Kansas

Test Approved by Claud L. Sheats, Jr. Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 4563' ft. to 4573' ft. Total Depth 4600' ft.

Packer Depth 4563 ft. Size 6 3/4 in. Packer Depth 4573 ft. Size 6 3/4 in.

Packer Depth -- ft. Size -- in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ---

Top Recorder Depth (Inside) 4552 ft. Recorder Number 969 Cap. 4150

Bottom Recorder Depth (Outside) 4565 ft. Recorder Number 2603 Cap. 4400

Below Straddle Recorder Depth 4600 ft. Recorder Number -- Cap. --

Drilling Contractor Gabbert - Jones #9 Drill Collar Length 247 I. D. 2¼ in.

Mud Type starch Viscosity 59 Weight Pipe Length -- I. D. -- in.

Weight 9.6 Water Loss 17.2 cc. Drill Pipe Length 4387 I. D. 3.8 in.

Chlorides 54,000 P.P.M. Test Tool Size 5½OD in. Tool Joint Size 4½FH in.

Jars: Make WTC Serial Number 410 Anchor Length 27 ft. Size 5½OD 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.

Blow: Weak to strong blow on first opening. Strong to weak blow on second opening.

Recovered 2800 ft. of salt water (60,000 PPM)

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 10:00 ~~A.M.~~ P.M. Time Started Off Bottom 1:30 A.M. ~~P.M.~~ Maximum Temperature 134

Initial Hydrostatic Pressure ..... (A) 2316 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 38 P.S.I. to (C) 846 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1282 P.S.I.

Final Flow Period ..... Minutes 60 (E) 891 P.S.I. to (F) 1287 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1293 P.S.I.

Final Hydrostatic Pressure ..... (H) 2274 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 8/14/78 Test Ticket No. 512

Recorder No. 969 Capacity 4150 Location 4552 F

Clock No. ------ Elevation ------- Well Temperature 134 °

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2316 P.S.I.		Open Tool	10:00 P M	
B	First Initial Flow Pressure	38 P.S.I.		First Flow Pressure	30 Mins.	35 Min
C	First Final Flow Pressure	846 P.S.I.		Initial Closed-in Pressure	60 Mins.	60 Min
D	Initial Closed-in Pressure	1282 P.S.I.		Second Flow Pressure	60 Mins.	60 Min
E	Second Initial Flow Pressure	891 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Min
F	Second Final Flow Pressure	1287 P.S.I.				
G	Final Closed-in Pressure	1293 P.S.I.				
H	Final Hydrostatic Mud	2274 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	38
P 2 5	166
P 3 10	303
P 4 15	436
P 5 20	549
P 6 25	676
P 7 30	784
P 8 35	846
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

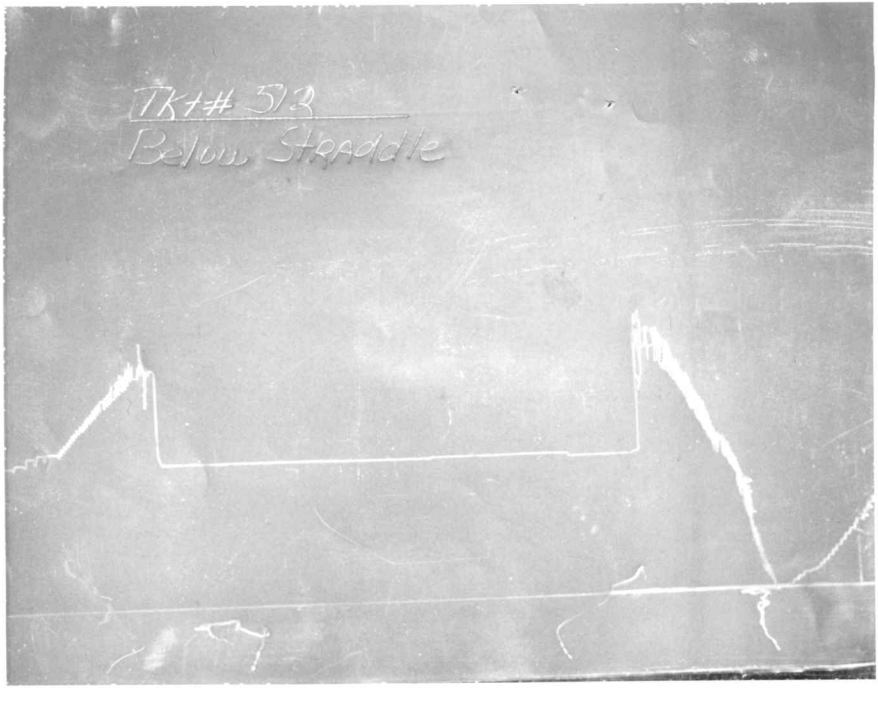
Point Minutes	Press.
0	846
3	1251
6	1267
9	1273
12	1275
15	1278
18	1279
21	1280
24	1280
27	1280
30	1280
33	1280
36	1281
39	1281
42	1281
45	1281
48	1281
51	1282
54	1282
57	1282
60	1282

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	891
5	953
10	1031
15	1094
20	1148
25	1191
30	1227
35	1253
40	1269
45	1278
50	1284
55	1286
60	1287

Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1287
3	1287
6	1287
9	1288
12	1288
15	1288
18	1289
21	1289
24	1289
27	1290
30	1290
33	1290
36	1291
39	1291
42	1291
45	1292
48	1292
51	1292
54	1293
57	1293
60	1293


TK1# 313
Below Straddle

IK+#512
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