

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ALPINE DRILLING COMPANY

Lease and Well No. COSSMAN #1

County PAWNEE State KANSAS

Date OCTOBER 12, 1976

Formation Test No. 1 Total Depth 3808 Elev. 2051 KB
Interval Tested 3782 To 3808 Anchor Length 26'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 XH Size Packer 6 3/4
Mud Weight 9.4 Viscosity 58 Water Loss 8.8 c.c. Bottom Hole Temp. 110 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 15299
Length of Drill Collar 308 I. D. 2 1/2 Length Flexweight 467 I. D. 2.76

RECOVERY

WEAK TO FAIR BLOW FIRST FLOW.
GOOD BLOW SECOND FLOW.

60 FEET OF OIL CUT MUD
60 FEET OF HEAVY OIL CUT MUD
60 FEET OF HEAVY OIL AND GAS CUT MUD (10% MUD
40% FILTRONE 50% OIL)

Lease and Well No. #1 COSSMAN 20-28-15

Formation Test No. 1

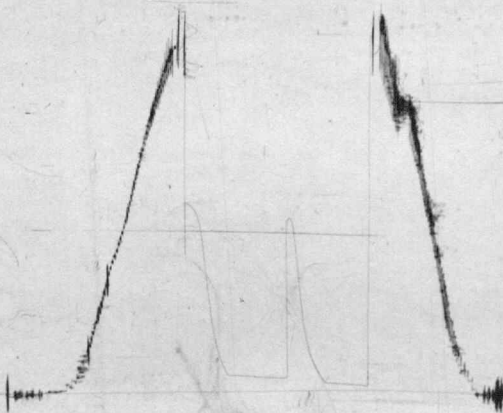
Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 30 min: 2nd Flow hr. 45 min: Shut-in Final hr. 30 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2099</u>	<u>2088</u>
(B) Initial 1st Flow Pressure	<u>22</u>	<u>27</u>
(C) Final 1st Flow Pressure	<u>44</u>	<u>44</u>
(D) Initial Shut-in Pressure	<u>1002</u>	<u>1004</u>
(E) Initial 2nd Flow Pressure	<u>89</u>	<u>78</u>
(F) Final 2nd Flow Pressure	<u>111</u>	<u>96</u>
(G) Final Shut-in Pressure	<u>1091</u>	<u>1089</u>
(H) Final Hydrostatic Pressure	<u>2211</u>	<u>1998</u>

15299

6

1134
15299



MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ALPINE DRILLING COMPANY

Lease and Well No. COSSMAN #I

County PAWNEE State KANSAS

Date OCTOBER 13, 1976

Formation Test No. 2 Total Depth 4070 Elev. 2051 KB
Interval Tested 4022 To 4070 Anchor Length 48'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 XH Size Packer 6 3/4
Mud Weight 10 Viscosity 51 Water Loss 9.6 c.c. Bottom Hole Temp. 112 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 15300
Length of Drill Collar 308 I. D. 2 1/2 Length Flexweight 467 I. D. 2.76

RECOVERY

WEAK BLOW DIED IN 7 MINUTES. FLUSHED TOOL.
IN 15 MINUTES GOOD SURGE. WEAK BLOW IN 2
MINUTES THEN DIED, FIRST FLOW.
NO BLOW SECOND FLOW.

10 FEET OF MUD.

Lease and Well No. COSSMAN #I 20-28-15

Formation Test No. 2

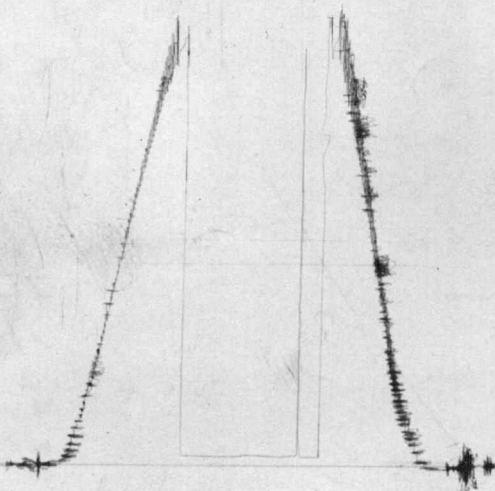
Tool Open: 1st Flow 30 hr. 30 mins: Shut-in Initial 30 hr. 15 min: Shut-in Final 30 hr. 30 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2314</u>	<u>2234</u>
(B) Initial 1st Flow Pressure	<u>41</u>	<u>43</u>
(C) Final 1st Flow Pressure	<u>41</u>	<u>45</u>
(D) Initial Shut-in Pressure	<u>61</u>	<u>60</u>
(E) Initial 2nd Flow Pressure	<u>41</u>	<u>47</u>
(F) Final 2nd Flow Pressure	<u>41</u>	<u>49</u>
(G) Final Shut-in Pressure	<u>61</u>	<u>53</u>
(H) Final Hydrostatic Pressure	<u>2194</u>	<u>2214</u>

15300

6

5664
152300



MILLER TESTING COMPANY

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GREAT BEND, KANSAS

Company ALPINE DRILLING COMPANY

Lease and Well No. COSSMAN #1

County PAWNEE

State KANSAS

Date OCTOBER 14, 1976

Formation Test No. 3 Total Depth 4158 Elev. 2051 KB
Interval Tested 4134 To 4158 Anchor Length 24'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 XH Size Packer 6 3/4
Mud Weight 10 Viscosity 55 Water Loss 8.8 c.c. Bottom Hole Temp. 120 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 15426
Length of Drill Collar 308 I. D. 2 1/2 Length Flexweight 467 I. D. 2.76

RECOVERY

GOOD STRONG BLOW THROUGHOUT TEST.

180 FEET OF GAS IN PIPE
1180 FEET OF FOGGY OIL
550 FEET OF CLEAN GASSY OIL (97% OIL-3% WATER)
60 FEET OF OILY WATER (35% WATER)
60 FEET OF SLIGHTLY OIL CUT WATER
180 FEET OF SALT WATER VERY SLIGHTLY OIL CUT
1020 FEET OF SALT WATER

Lease and Well No. COSSMAN #1 20-23-15

Formation Test No. 3

Tool Open: 1st Flow hr. 30 mins: Shut-in Initial hr. 45 min: 2nd Flow hr. 30 min: Shut-in Final hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2214</u>	<u>2324</u>
(B) Initial 1st Flow Pressure	<u>473</u>	<u>473</u>
(C) Final 1st Flow Pressure	<u>1114</u>	<u>1114</u>
(D) Initial Shut-in Pressure	<u>1394</u>	<u>1390</u>
(E) Initial 2nd Flow Pressure	<u>1174</u>	<u>1166</u>
(F) Final 2nd Flow Pressure	<u>1354</u>	<u>1344</u>
(G) Final Shut-in Pressure	<u>1394</u>	<u>1390</u>
(H) Final Hydrostatic Pressure	<u>2194</u>	<u>2204</u>
		15426

6

5466
15426

