

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ALPINE DRILLING CO., INC.

Lease and Well No. COSSMAN #2

County PAWNEE

State KANSAS

Date AUGUST 13, 1977

Formation Test No. 1 Total Depth 3808 Elev. _____
Interval Tested 3782 To 3808 Anchor Length 26'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 X H Size Packer 6 3/4
Mud Weight 9.7 Viscosity 49 Water Loss 6.4 c.c. Bottom Hole Temp. BROKE °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 15464
Length of Drill Collar 343 I. D. 2.50 Length Flexweight 459 I. D. 2.50

RECOVERY

VERY WEAK BLOW INCREASING TO FAIR BLOW. FAIR BLOW INCREASING
TO GOOD INTERMITTENT BLOW.

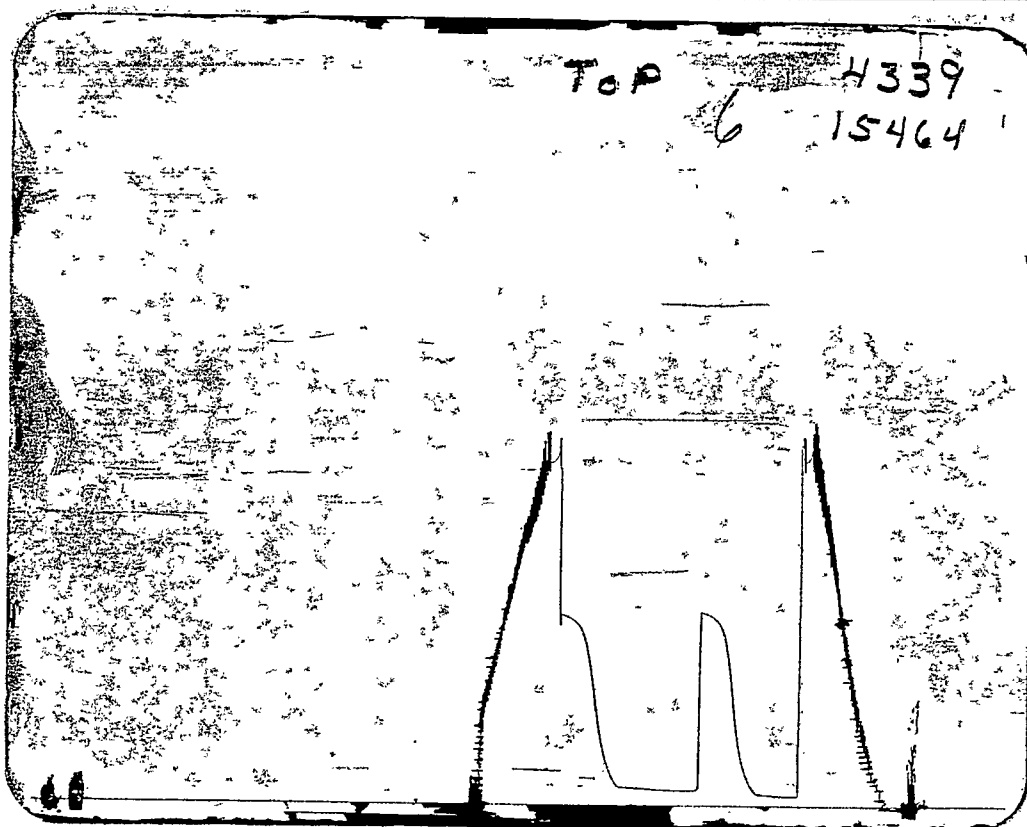
65 FEET OF OIL CUT MUD
60 FEET OF HEAVY OIL CUT MUD
60 FEET OF HEAVY OIL AND GAS CUT MUD WITH TRACE OF FREE OIL
IN TOOL

Lease and Well No. COSSMAN #2

NW SE NW

20-23S-15W

Formation Test No. 1



Tool Open: 1st Flow ____ hr. 30 mins: Shut-in Initial ____ hr. 45 min: 2nd Flow ____ hr. 60 min: Shut-in Final ____ hr. 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2079</u>	<u>2057</u>
(B) Initial 1st Flow Pressure	<u>58</u>	<u>57</u>
(C) Final 1st Flow Pressure	<u>69</u>	<u>64</u>
(D) Initial Shut-in Pressure	<u>1131</u>	<u>1130</u>
(E) Initial 2nd Flow Pressure	<u>92</u>	<u>92</u>
(F) Final 2nd Flow Pressure	<u>104</u>	<u>108</u>
(G) Final Shut-in Pressure	<u>1119</u>	<u>1119</u>
(H) Final Hydrostatic Pressure	<u>2035</u>	<u>1991</u>

15464

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company ALPINE DRILLING CO., INC.

Lease and Well No. COSSMAN #2

County PAWNEE

State KANSAS

Date AUGUST 14, 1977

Formation Test No. 2 Total Depth 4141 Elev. _____
Interval Tested 4093 To 4141 Anchor Length 48'
Size Hole 7 7/8 Size Drill Pipe 4 1/2 X H Size Packer 6 3/4
Mud Weight 10.0 Viscosity 48 Water Loss 8.4 c.c. Bottom Hole Temp. 115 °F
Chokes: Top 1/2 Bottom 1/2 Ticket No. 15165
Length of Drill Collar 343 I. D. 2.50 Length Flexweight 459 I. D. 2.50

RECOVERY

VERY WEAK INTERMITTENT BLOW INCREASING TO WEAK BLOW. VERY
WEAK BLOW INCREASING TO FAIR BLOW.

340 FEET OF SLIGHTLY OIL AND GAS CUT MUD.

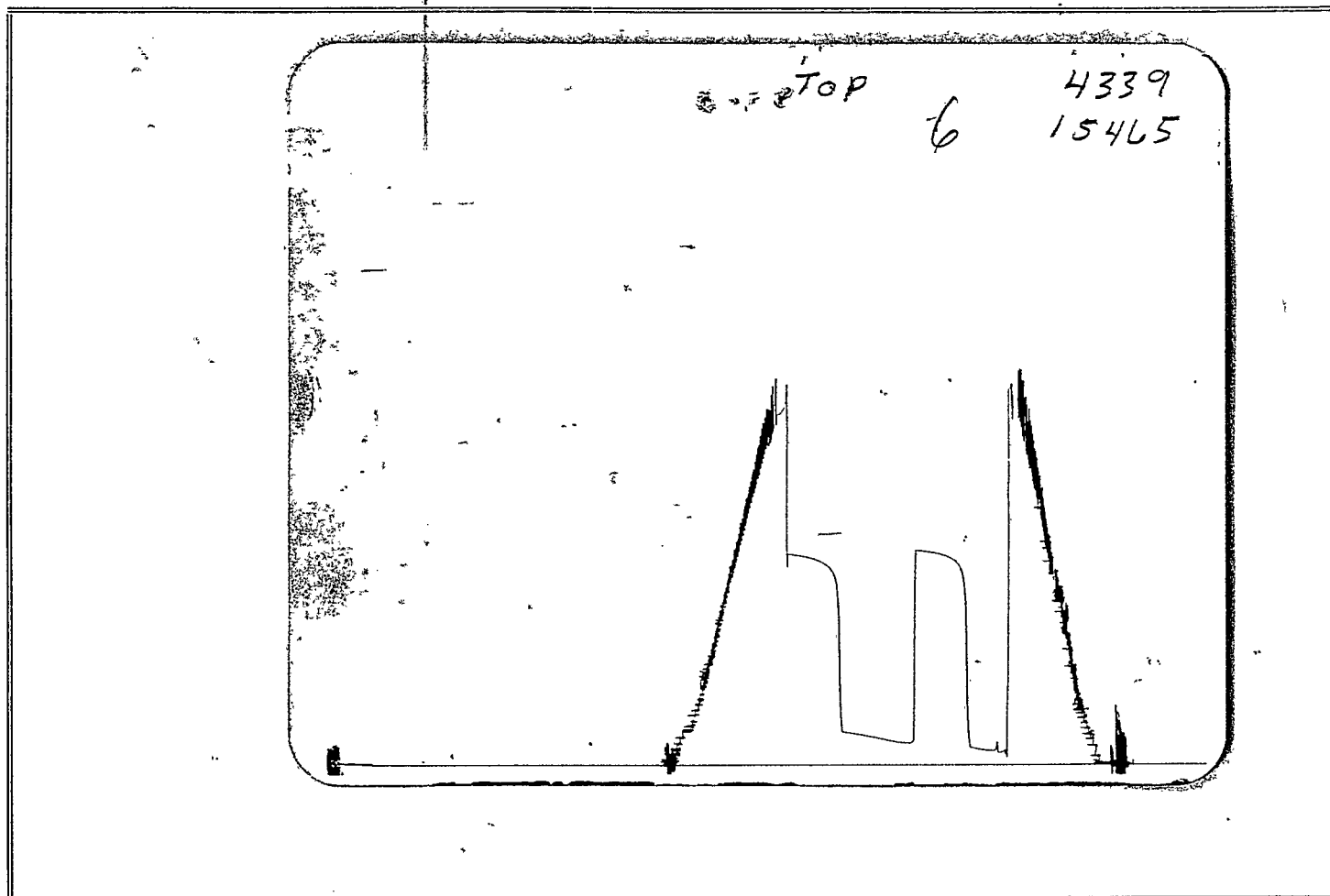
Lease and Well No. COSSMAN #2

NW SE NW

20-235-15W

Formation Test No.

2



Tool Open: 1st Flow 30 mins: Shut-in Initial 45 min: 2nd Flow 60 min: Shut-in Final 45 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	<u>2341</u>	<u>2308</u>
(B) Initial 1st Flow Pressure	<u>81</u>	<u>85</u>
(C) Final 1st Flow Pressure	<u>115</u>	<u>115</u>
(D) Initial Shut-in Pressure	<u>1352</u>	<u>1365</u>
(E) Initial 2nd Flow Pressure	<u>138</u>	<u>143</u>
(F) Final 2nd Flow Pressure	<u>219</u>	<u>219</u>
(G) Final Shut-in Pressure	<u>1352</u>	<u>1345</u>
(H) Final Hydrostatic Pressure	<u>2297</u>	<u>2210</u>

15465