

PAN AMERICAN PETROLEUM CORPORATION

JUL 13 8 29 AM '65

Post Office Box 68
Hobbs, New Mexico

July 6, 1965

File: VES-177-436

Subject: Bradenhead Leaks
Hobbs Field

Well File

Terry Tr 1 # 11
I 19-19-38

Mr. J. D. Ramey
Proration Manager
New Mexico Oil Conservation Commission
Post Office Box 1980
Hobbs, New Mexico

Dear Sir:

Your letter of May 27, 1965, requested that casinghead leaks be repaired by the end of May, 1965, on the Terry Tract 2 No. 13, Leech No. 24 and the Terry Tract 1 No. 11. The problem presented by these wells in each instance consisted of a small stream of water continually flowing out of the cellar aided by gas escaping from an unknown source down the hole in each well. An unsuccessful attempt was made to kill this gas in each zone by pumping heavy drilling mud down the surface and intermediate casing strings. Attached are diagrams depicting the subsurface equipment in the wells. Since this work was unsuccessful, remedial work was instituted on the Terry Tract 1 No. 11.

It was believed that gas was coming from the 8-5/8"-10-3/4" annulus from the Yates or Bowers section. To eliminate this gas source, the 5-1/2"-8-5/8" strings were perforated at approximately 1630-32. After isolating the Hobbs pay, circulation was then established and the 8-5/8"-10-3/4" annulus cemented with 300 sacks with 50 sacks circulated. The well was then restored to production.

This cement job failed to eliminate the water seepage and gas bubbling at the surface. It was then thought that possibly the surface water had been charged by the gas which was now shut off, and a relief hole might speed up bleed off of this charged condition. A hole was drilled to 152 feet through the Ogalalla water sand 10 feet from the cellar of the Terry Tract 1 No. 11, and no gas was detected. The fluid level stands at 31 feet from the surface. This is further supported by windmills in the immediate area of the leaking wells which show no traces of gas. Thus, the work on the Terry Tract 1 No. 11 conclusively shows no evidence of subsurface hydrocarbon contamination of fresh waters.

#11-J. 7-14-65
13-K. 10-19-68
F. 15-12-68

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Mr. J. D. Ramey
July 6, 1965
Page 2

JUL 13 8 29 AM '65

An old analysis of a Triassic water (450 feet deep) shows a favorable comparison with that obtained from the cellars of the three wells. These analyses are shown on Attachment No. 1.

The remedial work performed on the Terry Tract 1 No. 11 did not accomplish the objective of shutting off the gas and water flow, and the other two wells are considered to be similar cases. Since no contamination of fresh waters is indicated, it is requested that observation of the Terry Tract 1 No. 11 be continued in lieu of further work to determine if a gas shut off was obtained which may exhaust itself in time.

Yours very truly,



V. E. Staley
Area Superintendent

Attachments

ATTACHMENT NO. 1

	<u>Triassic Capps #31</u>	<u>Cellar Terry Tr. 1 #11</u>	<u>Cellar Terry Tr. 2 #13</u>	<u>Cellar Leech #24</u>
SG	1.004	1.006	1.011	1.005
PH		7.3	7.6	7.3
CL	3370	1999	7900	3300
SO ₄	1010	194	900	1100
HCO ₃	134	214	190	195
CA	200	205	400	240
Mg	70	58	195	120
NA	2363	1115	4810	2230

U. S. AMERICAN PETROLEUM CORPORATION
 ENGINEERING CHART
 (FACING)

SHEET NO. 07
 FILE _____
 APP _____
 DATE 6/1/57
 BY _____

SUBJECT Trig Test 1-10-57

1-10-57 Trig Test

Sketch of line between
 Paying and "Chin" (approx. 1000 ft.)

1-10-57 Trig

Payson, Utah

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Chin

Payson 1000 ft.

ILLEGIBLE

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

Payson 1000 ft.

ENGINEERING CHART
(TRACING)

SUBJECT

Tues, Tent 2 11:10

Unit K Sec. 10 T-19-C R-1-E

Sketch of Casing Surface Markings -

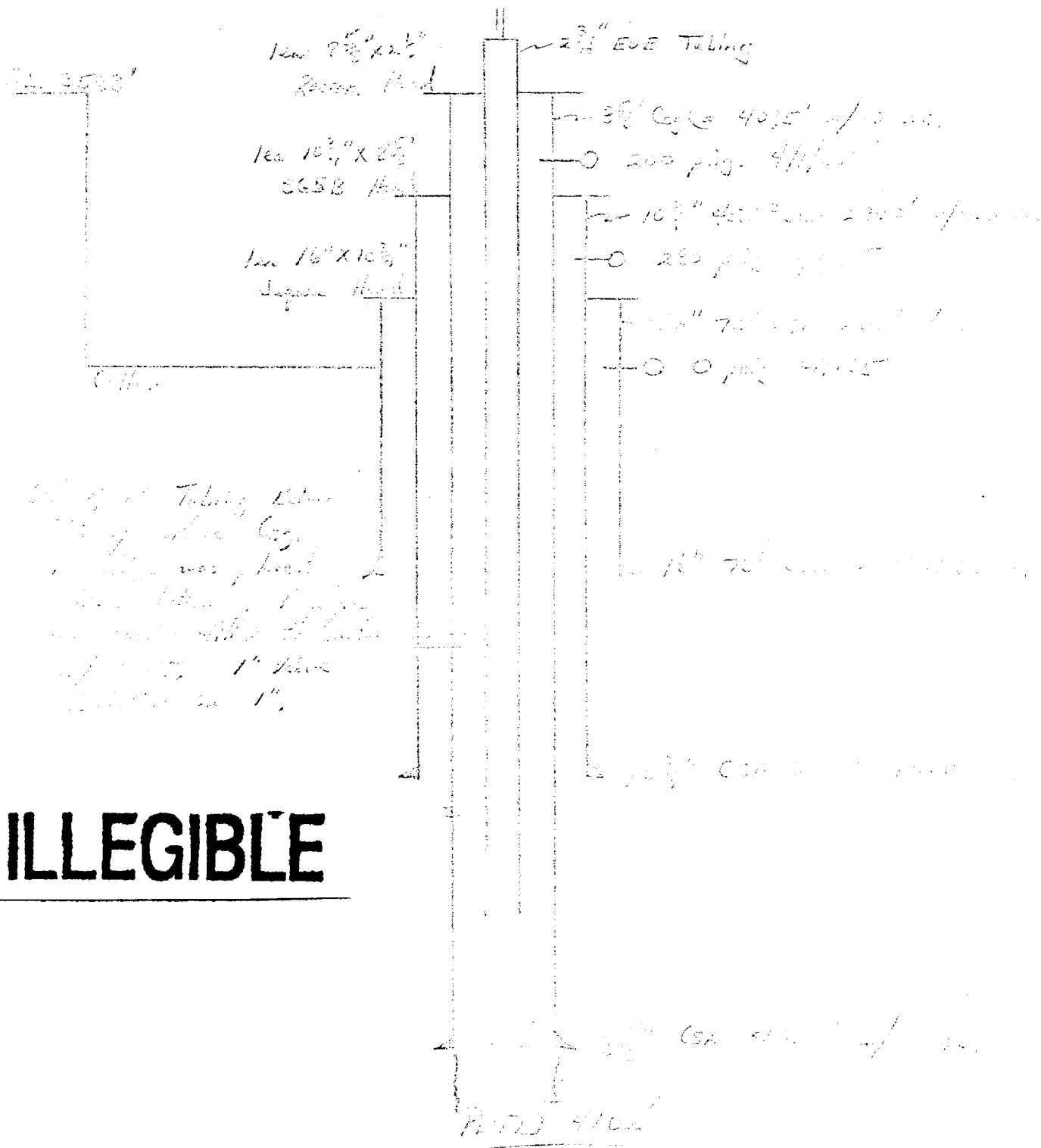
Pumping Well (under Road) (See Plan)

FILE

APP.

DATE 11-1-68

300
 301
 302



F. ! AMERICAN PETROLEUM CORPORATION

SHEET NO.

OF

ENGINEERING CHART
(TRACING)

FILE

APP.

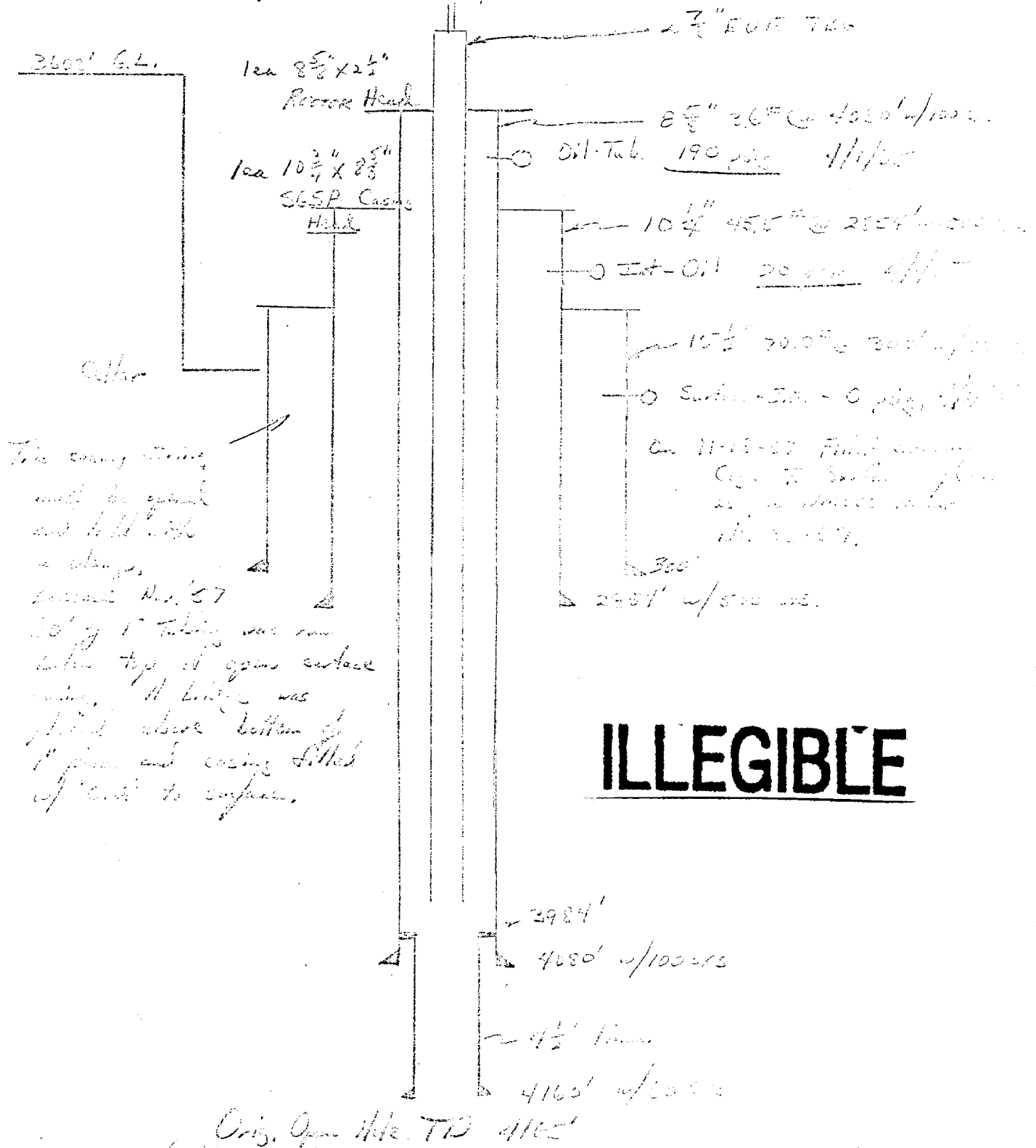
DATE

BY

SUBJECT

Leach NW 15 No. 24

Unit F Sec. 15, T-15E R23E

Sketch of Casing Surface Plot
Pumping Well (Pneum. Oper. Celler 240)**ILLEGIBLE**

