

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.

Nm-17224

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Queen Lake 19 Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat Morrow

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Sec. 19, T24S, R29E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

October 11, 1982

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

OCT 13 1982

SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

HNG OIL COMPANY

O. C. D.

3. ADDRESS OF OPERATOR

P. O. Box 2267, Midland, Texas 79702

ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1930' 1920' FNL & 1980' FEL, Sec. 19

At proposed prod. zone

1950' 1920' FNL & 1980' FEL, Sec. 19

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

6 miles SE from Loving

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

1920'

720'

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

960 *

19. PROPOSED DEPTH

13500'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

2956' GR

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	550'	725 sacks CIRCULATE
12-1/4"	9-5/8"	47#	2300'	1700 sacks CIRCULATE
8-1/2"	7"	23#	11000'	1350 sacks
6-1/8"	4-1/2" Liner	13.5#	13500'	450 sacks

BOP - Install at 2300' w/3000# cap. and 2450# annular preventer. At 11,000' increase to 5000# cap. w/3000# annular preventer. Will use standard surface controlled BOP installation.

Acreage is not dedicated.

Posted 901-APJ +
N3 Book on
10-15-82

*960 acres in lease includes all of Section 19 and the East half of Section 20.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Betty Galdon

TITLE

Regulatory Analyst

DATE

9/23/82

(This space for Federal or State office use)

(Orig. Sgd.) GEORGE H. STEWART

PERMIT NO.

OCT 7 1982

APPROVAL DATE

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator HNG OIL CO.		Lease QUEEN LAKE 19-FEDERAL		Well No. 1
Unit Letter G	Section 19	Township 24 SOUTH	Range 29 EAST	County EDDY

Actual Footage Location of Well:

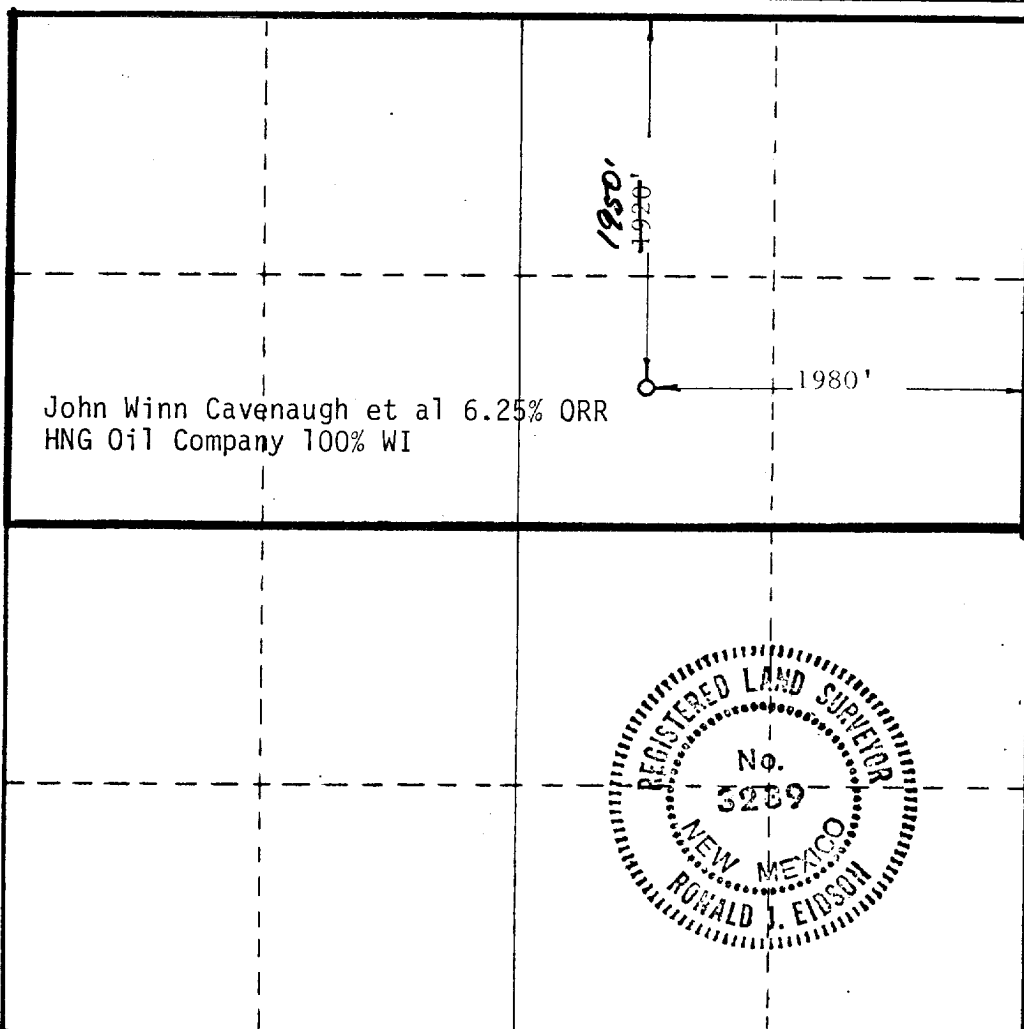
1980 feet from the EAST line and 1920 1950 feet from the NORTH line	Ground Level Elev. 2956'	Producing Formation Morrow	Pool Wildcat	Dedicated Acreage: 320 Acres
---	-----------------------------	-------------------------------	-----------------	---------------------------------

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Betty Gildon
Name

Betty Gildon
Position
Regulatory Analyst

Company
HNG OIL COMPANY

Date
9/22/82

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
September 22, 1982

Registered Professional Engineer and/or Land Surveyor

Ronald J. Eidson

Certificate No. JOHN W. WEST 676
PATRICK A. ROMERO 6863
Ronald J. Eidson 3238

0 330 660 990 1320 1650 1980 2310 2640 2000 1800 1000 500 0

APPLICATION FOR PERMIT TO DRILL
Queen Lake "19" Federal #1

1. The geologic surface formation is Quaternary.
2. The estimated tops of important geologic markers are:
 1. Delaware 2750
 2. Delaware Sand 2780
 3. Bone Spring 6100
 4. Wolfcamp 9640
 5. Atoka 11740
 6. Morrow 12500
 7. _____
 8. _____
 9. _____
 10. _____
3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Bone Spring Lime & Sand - 6,100-9,640
Wolfcamp Lime - 9,640-11,740
Atoka Sands - 11,740-12,500
Morrow Sands - 12,500-13,500
4. Brief description of testing, logging, and coring programs.

Gamma Ray: Surface - TD
Sonic and/or Neutron Density: Top Delaware Sand - TD
Dual Lateralog: Top Delaware Sand - TD
Mud Logger: Top Delaware Sand - TD
No coring anticipated
5. Any anticipated abnormal pressures or temperatures expected? Any potential hazards - H₂S?

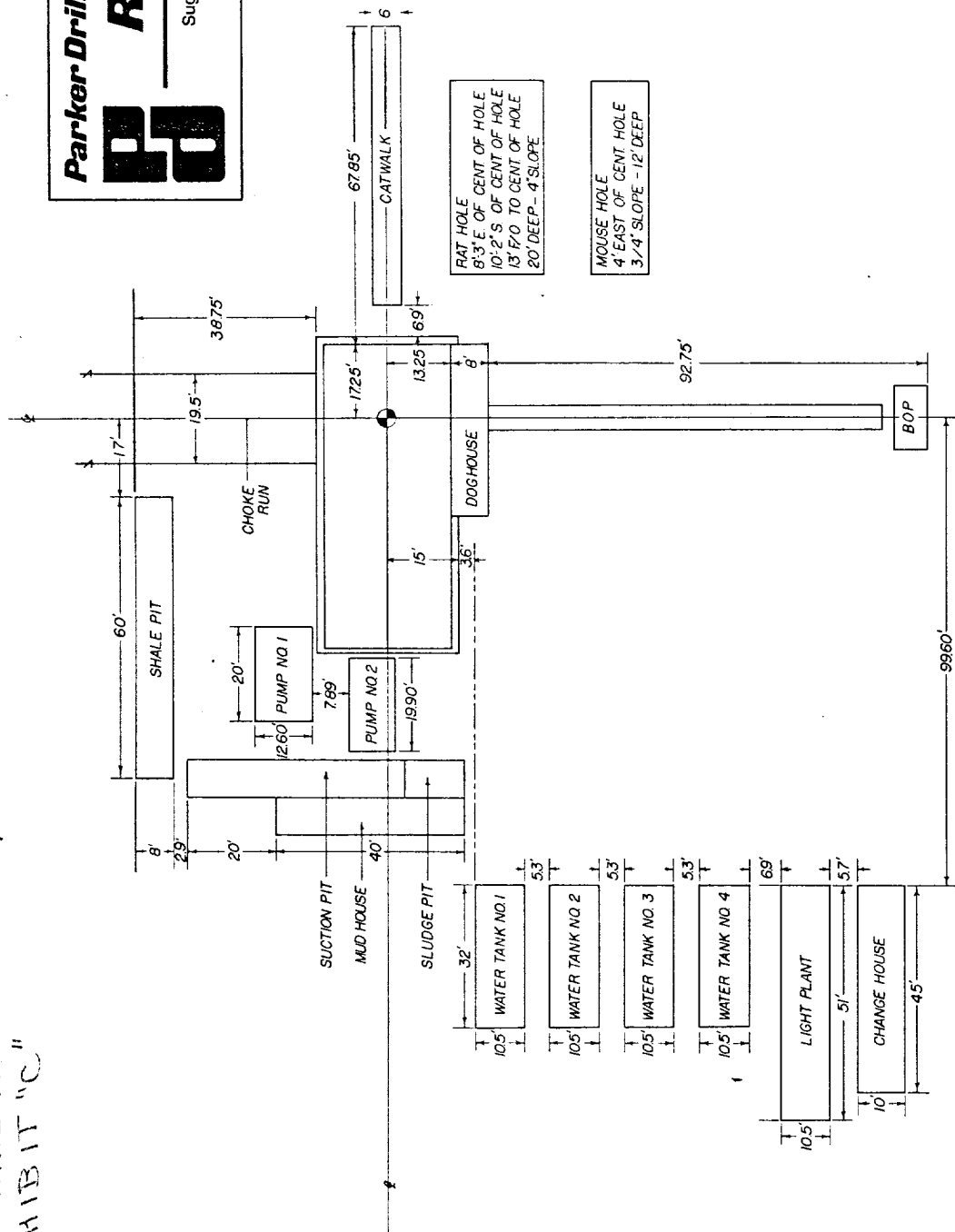
Possible abnormal pressures from Wolfcamp through the Atoka.
No H₂S zones expected.



Parker Drilling Company

RIG 161

Suggested Location Size
350' X 350'



Wolfcamp Lime - 9,640-11,740
Atoka Sands - 11,740-12,500
Morrow Sands - 12,500-13,500

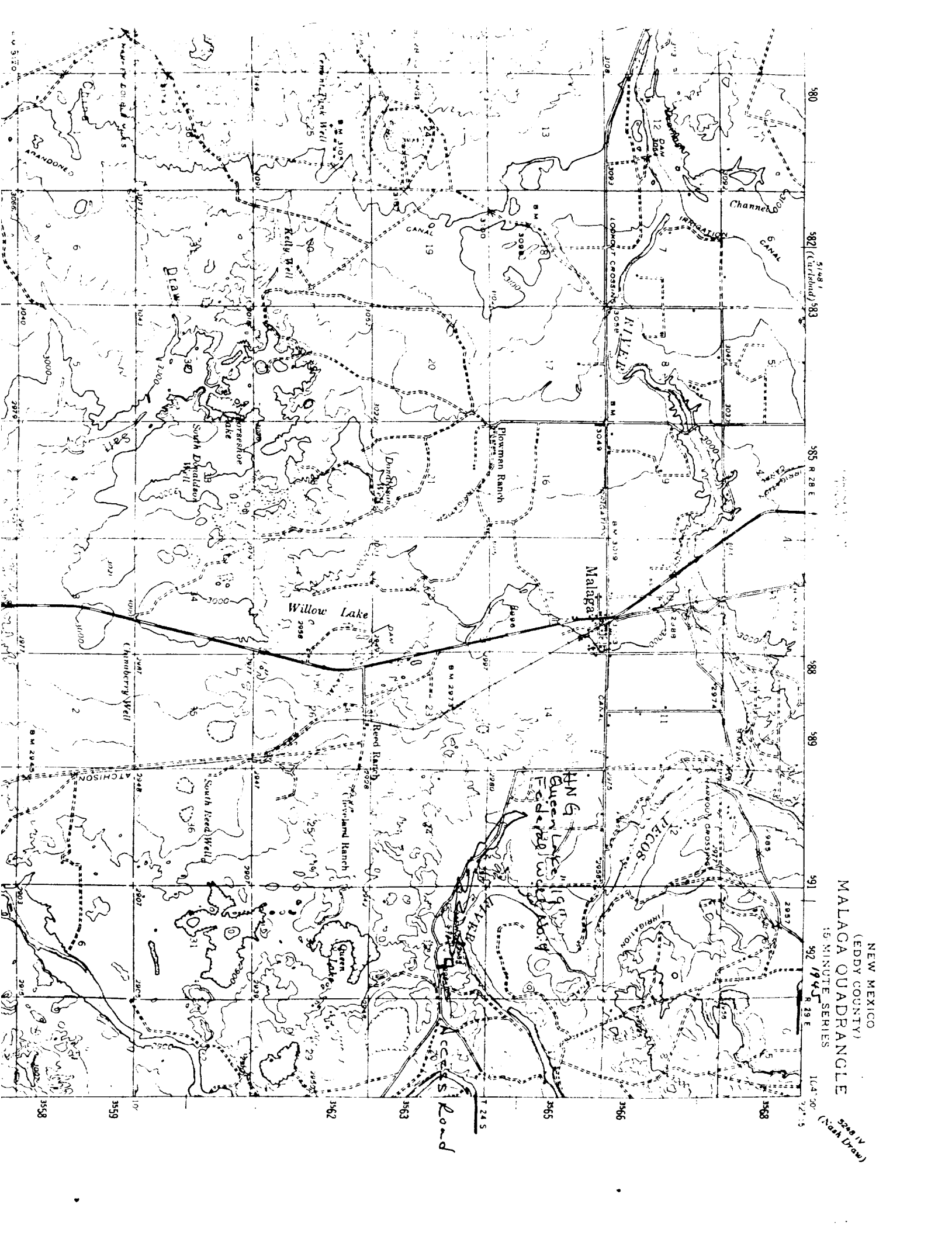
4. Brief description of testing, logging, and coring programs.

Gamma Ray: Surface - TD
Sonic and/or Neutron Density: Top Delaware Sand - TD
Dual Lateralog: Top Delaware Sand - TD
Mud Logger: Top Delaware Sand - TD
No coring anticipated

5. Any anticipated abnormal pressures or temperatures expected? Any potential hazards - H₂S?

Possible abnormal pressures from Wolfcamp through the Atoka.

No H₂S zones expected.



360
358
356
354
352
350
348
346
344
342
340
338
336
334
332
330
328
326
324
322
320
318
316
314
312
310
308
306
304
302
300
298
296
294
292
290
288
286
284
282
280
278
276
274
272
270
268
266
264
262
260
258
256
254
252
250
248
246
244
242
240
238
236
234
232
230
228
226
224
222
220
218
216
214
212
210
208
206
204
202
200
198
196
194
192
190
188
186
184
182
180
178
176
174
172
170
168
166
164
162
160
158
156
154
152
150
148
146
144
142
140
138
136
134
132
130
128
126
124
122
120
118
116
114
112
110
108
106
104
102
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
68
66
64
62
60
58
56
54
52
50
48
46
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0

NEW MEXICO
(EDDY COUNTY)
MALAGA QUADRANGLE
15 MINUTE SERIES
592 1945
R 29 E
T 24 S

FIELD:

LEASE: Queen Lake "19" Federal #1

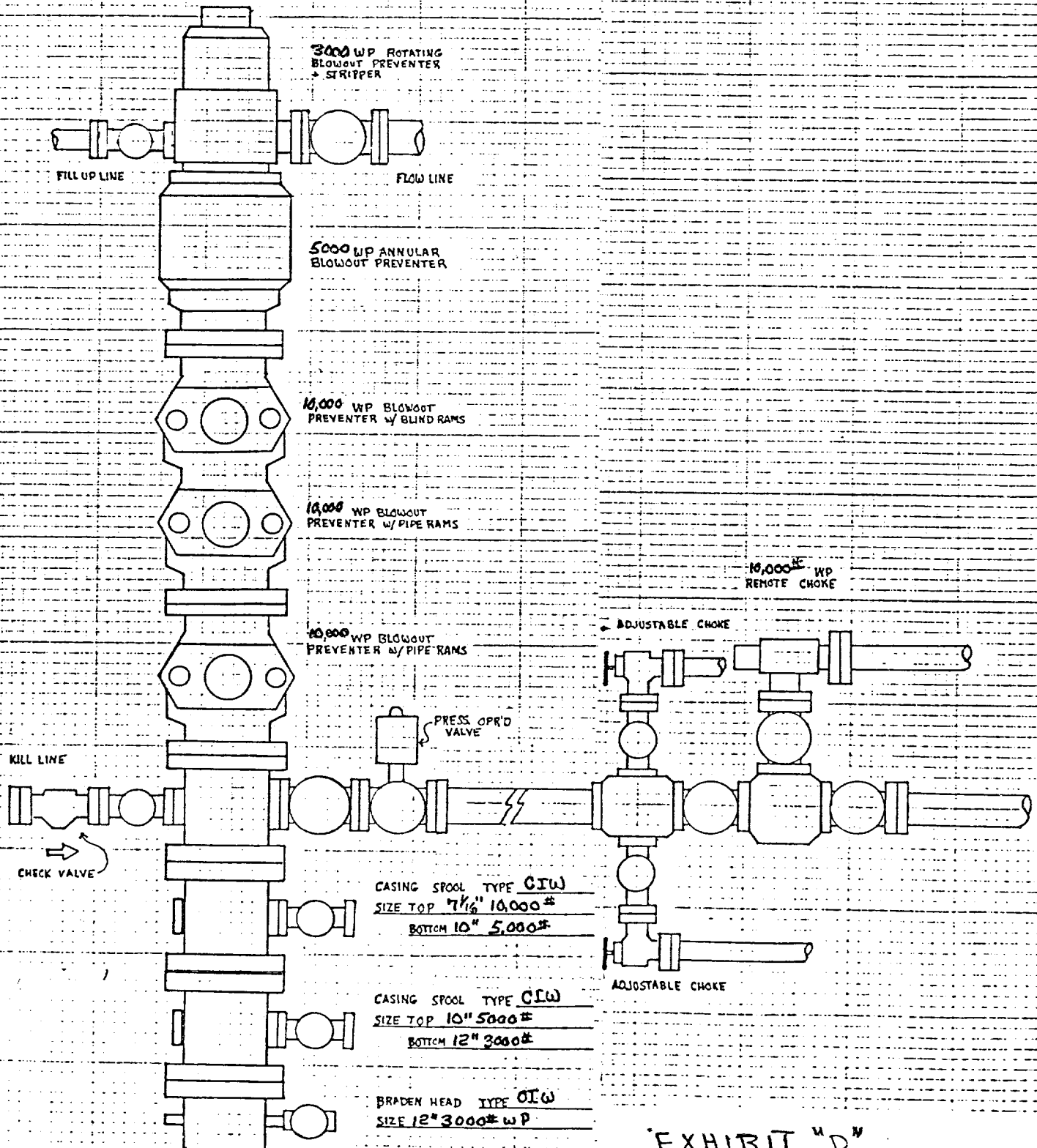


EXHIBIT "D"