

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYCopy 451
30-015-21388

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐			5. LEASE DESIGNATION AND SERIAL NO. NM-9543	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Hanagan Petroleum Corporation			7. UNIT AGREEMENT NAME Catclaw Draw	
3. ADDRESS OF OPERATOR P. O. Box 1737, Roswell, New Mexico 88201			8. FARM OR LEASE NAME Catclaw Draw Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650' FNL & 1100' FEL			9. WELL NO. 11	
At proposed prod. zone Same			10. FIELD AND POOL, OR WILDCAT Catclaw Draw Morrow	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 miles northwest of Carlsbad			11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA 34-21S-25E	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1100'		16. NO. OF ACRES IN LEASE 240	17. NO. OF ACRES ASSIGNED TO THIS WELL 640	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3300'		19. PROPOSED DEPTH 10,900'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3515' GR			22. APPROX. DATE WORK WILL START* 10/1/74	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	200	Circ.
14-3/4" & 12 1/4"	9-5/8"	36, 40 & 47#	2200	Circ.
8 1/2" & 7-7/8"	5-1/2"	17 & 20#	10900	

Plan to use 10" - 1500 Series BOP & Hydrill-Flow sensor, pit leveler, choke & gas separator will be installed @ top of Wolfcamp anticipated @ 7850'. Yellow-jacket will be run after setting 9-5/8" casing. Mud up @ 8400' in Wolfcamp - Low solids, fresh water mud, weight 8.8 to 9.2#, vis. 40-44, water loss 10 to 15. Fresh water & native mud from 0-8500'.

THIS APPROVAL IS REVOKED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present 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 Gerald E. Harrington TITLE Agent DATE 9/26/74
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE OCT 4 1974
APPROVED BY [Signature] DISTRICT ENGINEER
CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

SUBJECT TO ATTACHED DEEP WELL CONTROL
REQUIREMENTS DATED JUN 22 1973

NOTIFY USGS IN SUFFICIENT TIME TO
WITNESS CEMENTING THE 950 CASING.

*See Instructions On Reverse Side

N. MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form G-102
Supersedes G-128
Effective 1-1-74

All distances must be from the outer boundaries of the Section.

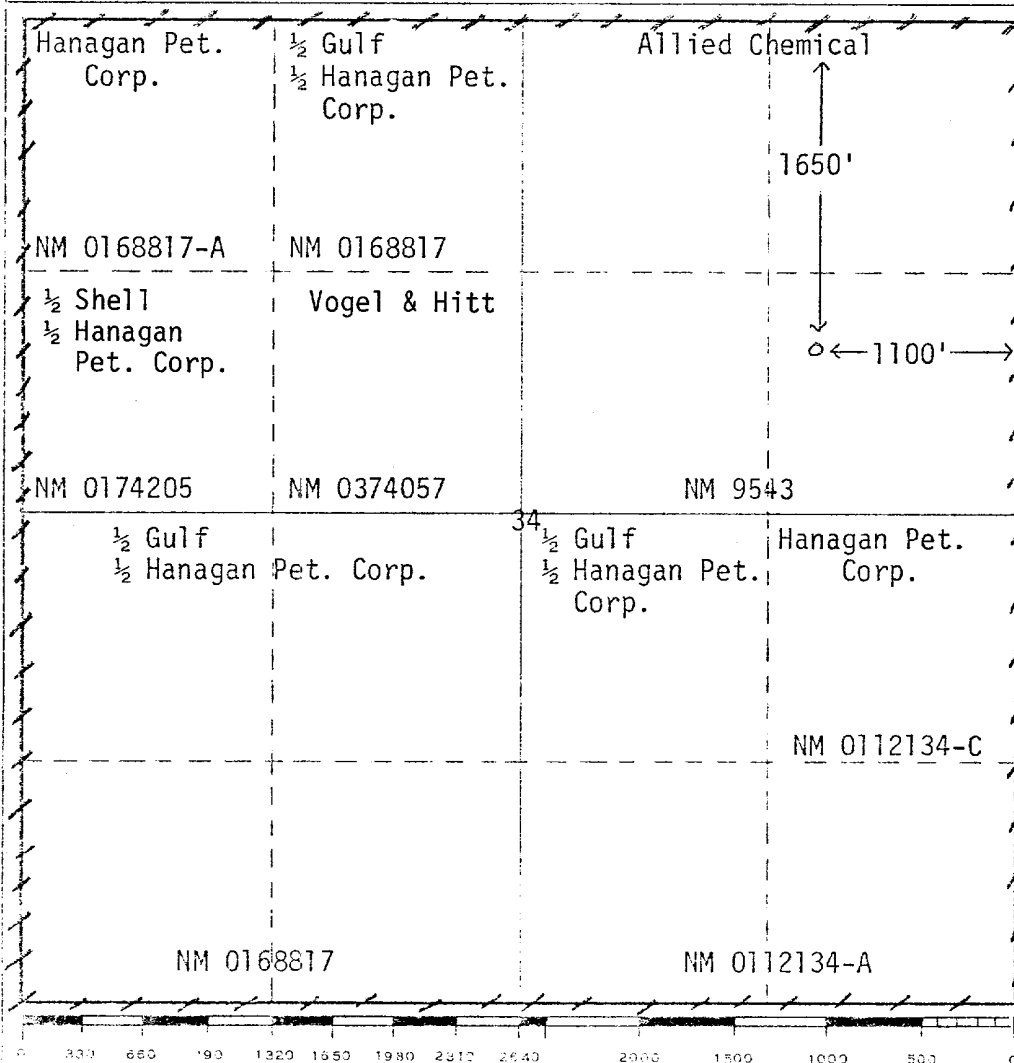
Lessee Hanagan Petroleum Corporation			Lease Catclaw Draw Unit		Well No. 11
Map Letter H	Section 34	Township 21 South	Range 25 East	County Eddy	
Actual Location of Well: 1650 feet from the North line and 1100 feet from the East line					
Ground Level Elev. 3515'	Producing Formation Morrow	Pool Catclaw Draw Morrow		Dedicated Acreage: 640 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 State & Federal Approved Unit

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.

Hugh E. Hanagan
Name
Hugh E. Hanagan

Position
Vice President

Company
Hanagan Petroleum Corporation

Date
9/23/74

I hereby certify that the well location shown on this plat was derived 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.

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July 18, 1974

Date Surveyed
[Signature]
Registered Professional Engineer
and/or Land Surveyor

N. H. 220
Certificate No.

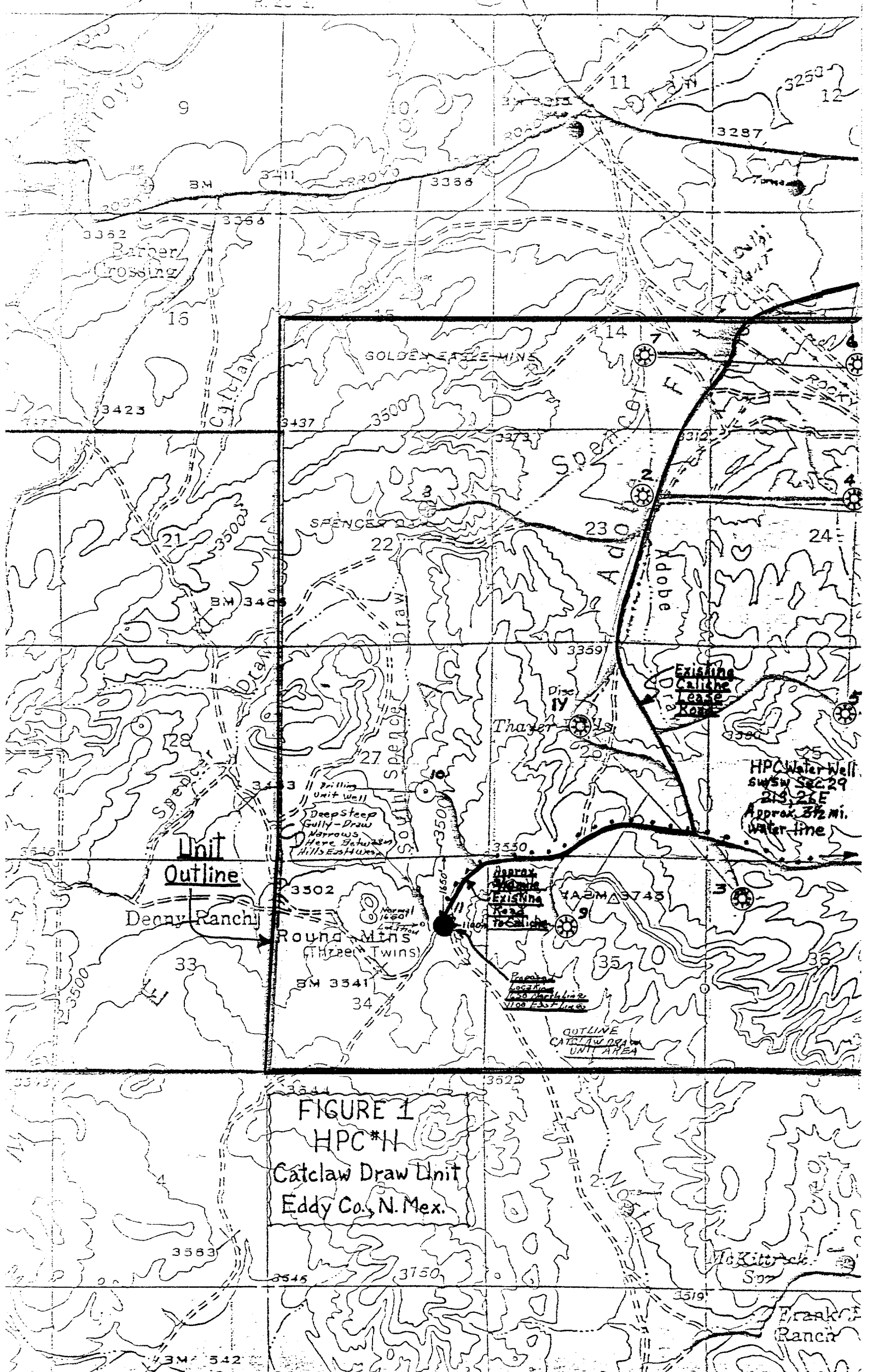
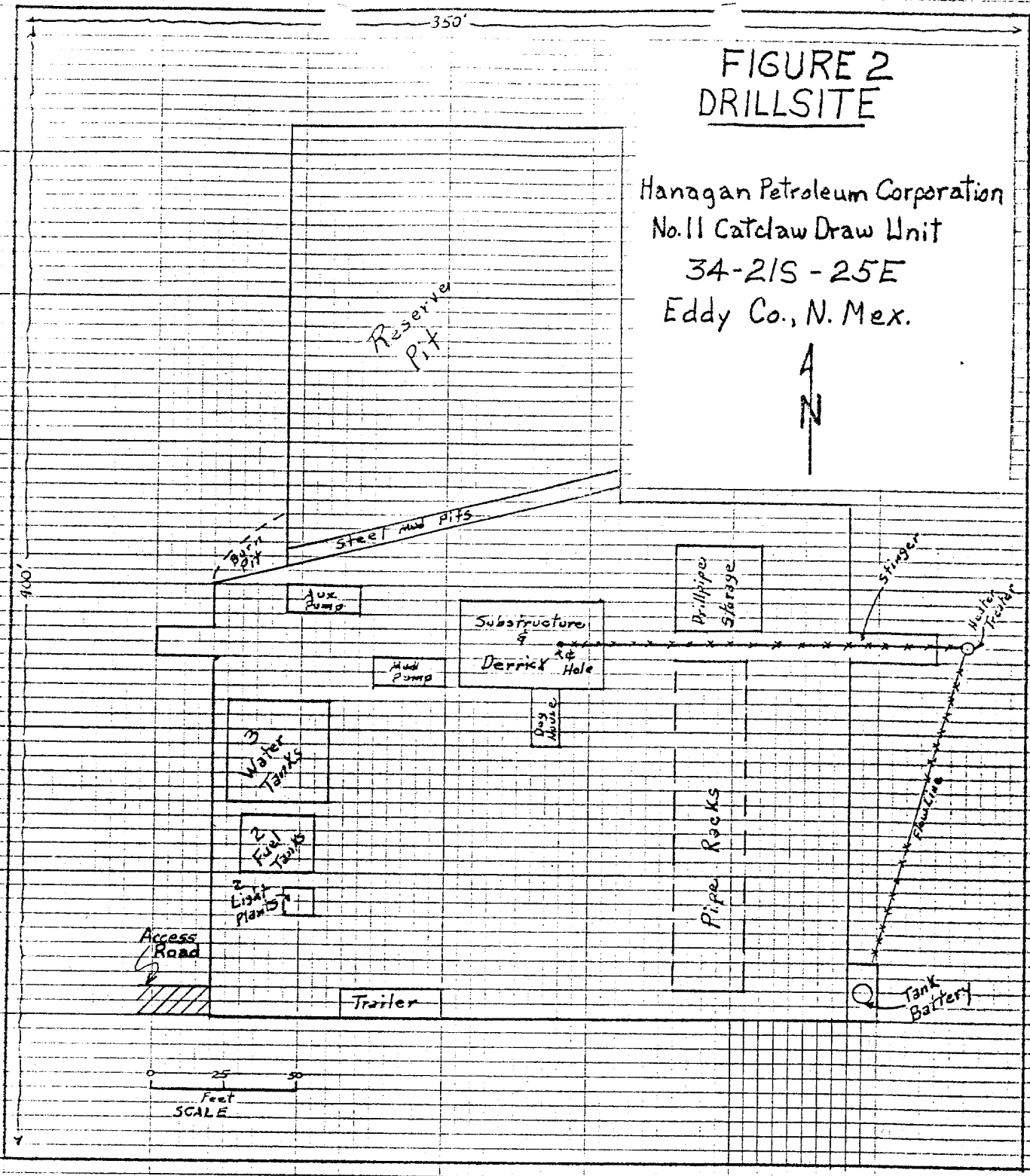


FIGURE 2 DRILLSITE

Hanagan Petroleum Corporation
No. 11 Catclaw Draw Unit
34-21S - 25E
Eddy Co., N. Mex.

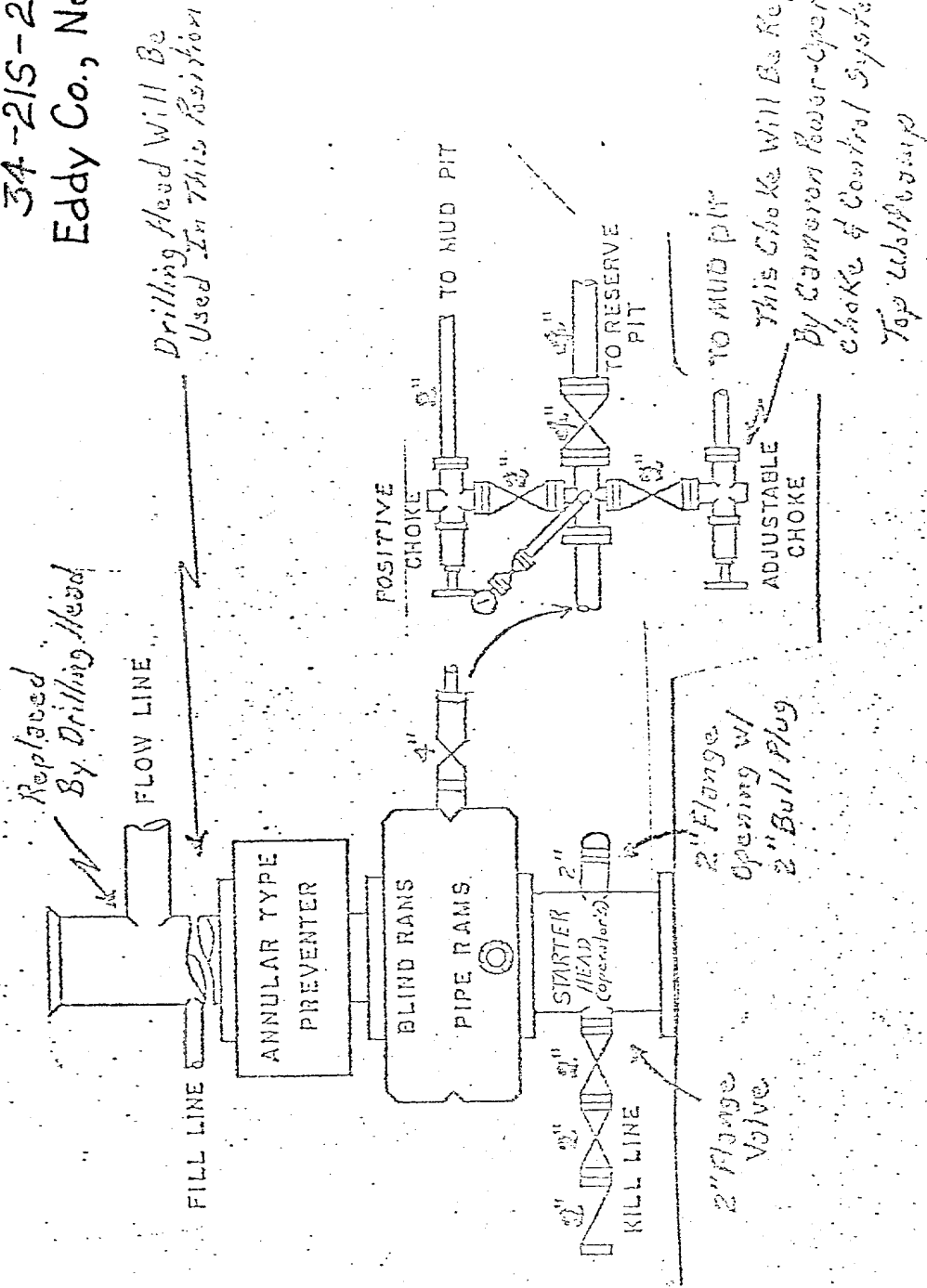


DEVELOPMENT PLAN FOR SURFACE USE

HANAGAN PETROLEUM CORPORATION NO. 11 CATCLAW DRAW UNIT

1. Existing Roads & Planned Access Roads - See Figure 1 (U.S.G.S. Map) - Main caliche lease road colored orange, approximately 3/10 of 1 mile of existing road to be caliched in blue.
2. Location of Existing Wells - See Figure 1, producing gas wells colored yellow, unit area blue outline.
3. Water Supply - Hanagan Petroleum Corporation has its own water well located in SW $\frac{1}{4}$ of Sec. 29-21S-26S. Plan to run approx. 3 $\frac{1}{2}$ miles of water line along road (See Fig. 1).
4. Location of Tank Battery & Flow Lines - See Figure 2.
5. Drillsite Arrangement - See Figure 2 - The surface of drillsite fairly flat; covered by cactus, mesquite, very little grass and rocky. There are no steep gullies, streams or trees present on drillsite.
6. Method of Handling Waste - Garbage and trash buried in "burn pit" (see Fig. 2) and later covered with dirt. Reserve pit levelled upon completion.
7. Plans Restoration of Surface - Area will be completely levelled and cleaned of debris.
8. Company Representative Responsible For Compliance - Hugh E. Hanagan, P. O. Box 1737, Roswell, New Mexico, 88201, Phone 623-5053.

Hanagan Petroleum Corporation
 No. 11 Catclaw Draw Unit
 34-2/S-25E
 Eddy Co., New Mexico



Woranko Standard Top and Choke Assembly
 Revised By HPC

For Pies 3, 7, & 8

1500 Series