

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		8. FARM OR LEASE NAME Ntani		
2. NAME OF OPERATOR Northwest Exploration Company		9. WELL NO. #20		
3. ADDRESS OF OPERATOR P.O. Box 90, Farmington, New Mexico 87401		10. FIELD AND POOL, OR WILDCAT Undesignated Rusty Chacra		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1860 FNL & 970 FEL (SE NE) 2035 1105 At proposed prod. zone Same		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 34, T22N, R6W		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Location is 11 miles South of Counselors, New Mexico		12. COUNTY OR PARISH Sandoval		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 970'		13. STATE N.M.		
16. NO. OF ACRES IN LEASE 320		17. NO. OF ACRES ASSIGNED TO THIS WELL 161.40		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. ---		20. ROTARY OR CABLE TOOLS Rotary		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7012' GR		22. APPROX. DATE WORK WILL START* June 1982		
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24.0#	100'	83 cu. ft
7-7/8"	4-1/2"	10.5#	2100'	815 cu. ft

Selectively perforate and stimulate the Chacra formation  
Completion plans will be determined at Total Depth.

A BOP will be installed after the surface casing is set and cemented. All subsequent work will be conducted through the BOP's.

The Northeast quarter of Section 34 is dedicated to this well.

Gas is dedicated

Please note that this is a larger than normal section so the location of the well is in a legal location. See footages given on Surveyors Plat. *Not Large enough*

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 Paul C. Thompson TITLE Drilling Engineer DATE Jan 29, 1982  
(This space for Federal or State office use)

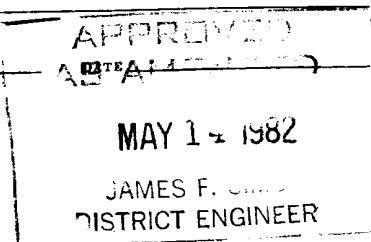
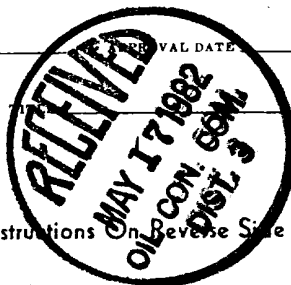
PERMIT NO. \_\_\_\_\_

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

PCT:djb

\*See Instructions on Reverse Side

NMOCC



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

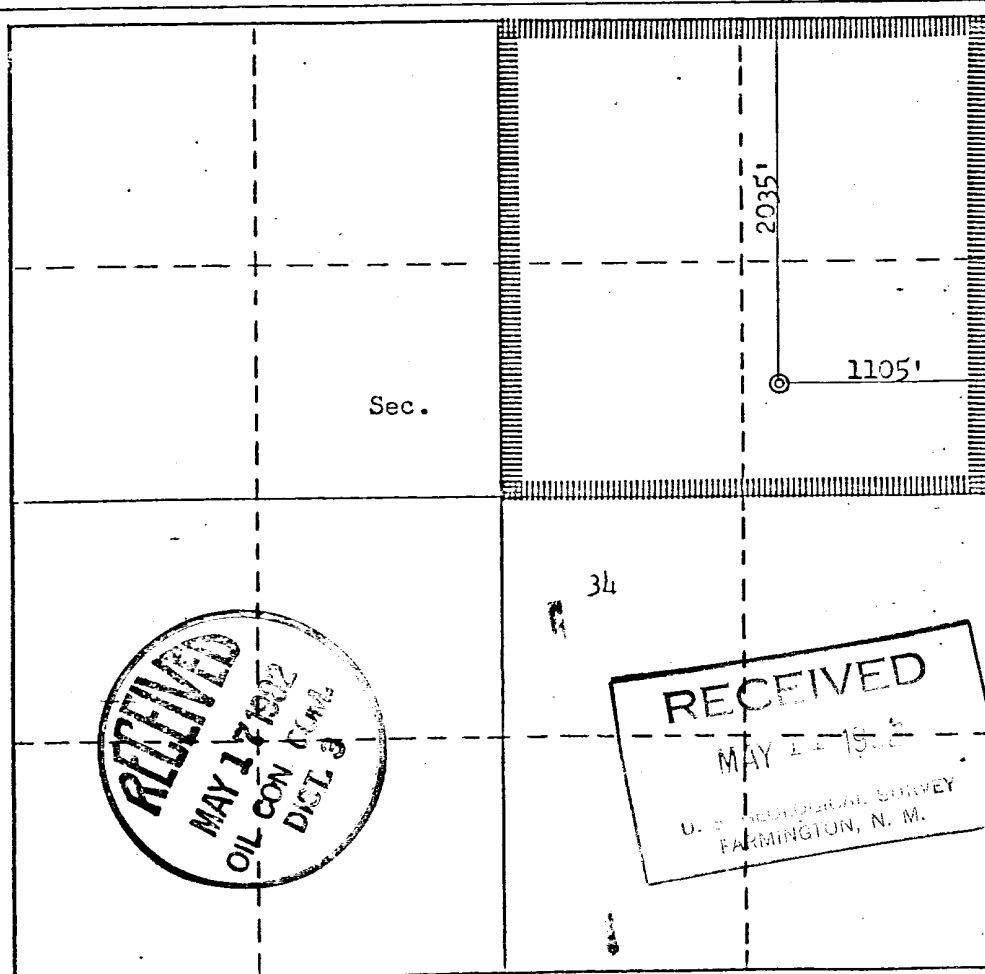
Operator <b>NORTHWEST Exploration Company</b>			Lease <b>NATANI</b>		Well No. <b>20</b>
Unit Letter <b>H</b>	Section <b>34</b>	Township <b>22N</b>	Range <b>6W</b>	County <b>Sandoval</b>	
Actual Footage Location of Well: <b>2035</b> feet from the <b>North</b> line and <b>1105</b> feet from the <b>East</b> line					
Ground Level Elev. <b>7008</b>	Producing Formation <b>Chacra</b>		Pool <b>Undersaturated Rusty Chacra</b>		Dedicated Acreage: <b>161.40</b> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.

*Paul C. Thompson*

Name  
Paul C. Thompson

Position  
Drilling Engineer

Company  
Northwest Exploration Company

Date  
March 26, 1982

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

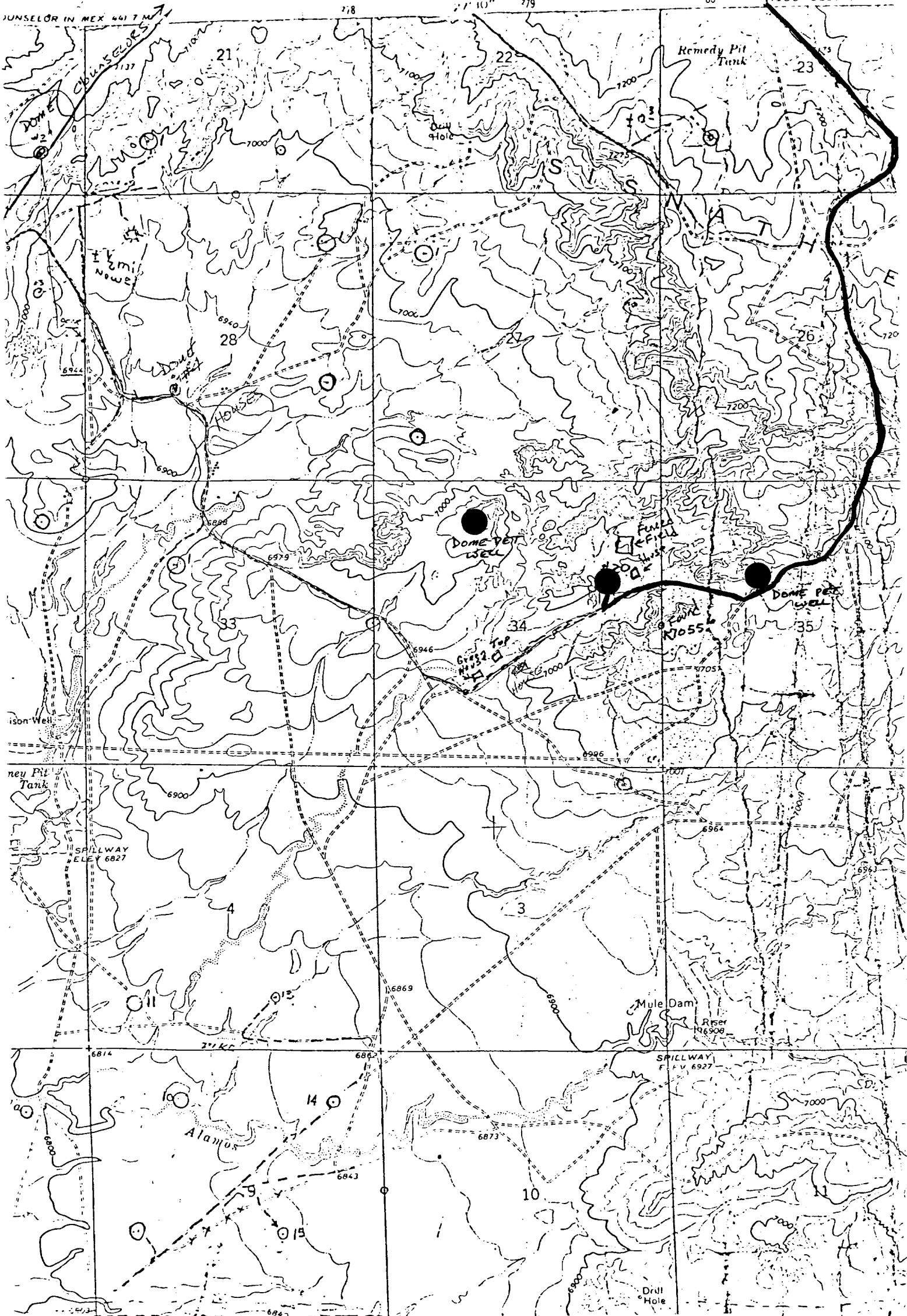
March 26, 1982

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr Jr.*  
Fred B. Kerr Jr.

Certificate No.

3950



Vicinity Map for  
 NORTHWEST Exploration Co. #20 NATANI  
 1850' FNL 970' FEL Sec. 34-T22N-R6W  
 SANDOVAL COUNTY, NEW MEXICO