

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

1. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. N.M. 15649	
2. NAME OF OPERATOR DOME PETROLEUM CORP.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 3600 Southside River Rd., Farmington, New Mexico 87401		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1540' FNL, 1050' FEL At proposed prod. zone		8. FARM OR LEASE NAME Dome Federal 1-21-7	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 10 Miles Southwest of Counselors Trading Post		9. WELL NO. 1	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)		10. FIELD AND POOL, OR WILDCAT Rusty Chacra	
16. NO. OF ACRES IN LEASE 602.48		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA H Sec. 1, T21N, R7W	
17. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1700'		12. COUNTY OR PARISH Sandoval	
18. ELEVATIONS (Show whether DF, RT, GR, etc.) 6914' G.L.		13. STATE New Mexico	
19. PROPOSED DEPTH 1700'		17. NO. OF ACRES ASSIGNED TO THIS WELL 160.73	
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START 5/30/82	

## 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#	100'	75 Sacks (Circulated)
6 3/4"	4 1/2"	10.5#	1700'	375 Sacks (Circulated)

Move in rotary tools. Drill 12 1/4" hole to 100'. Set 100' of new 8 5/8", 24#, K55 casing. Cement with 75 sxs. Class "B" Cement with 2% CaCl. Wait on cement 12 hours. Install 6" 900 Series blowout preventer. Test to 500 psi before drilling out from under surface pipe. Check pipe rams daily and blind rams on trips. Drill 6 3/4" hole to T.D. The geologic name of the surface formation is Tertiary Nacimiento. Gas is expected in the Chacra. All other formations are probably water bearing. Pertinent formation tops are estimated as Ojo Alamo 490' Kirtland 660'; Fruitland 1020'; Pictured Cliff 1038'; Chacra 1440'. Mud system will be low solids nondispersed. Mud weight 8.8-9.2 #/Gal., F.L. 8-10 cc, viscosity 30-50 sec./Qt. No abnormal temperatures or pressures are anticipated. Logging program will be DIL, FDC/CNL/GR with Caliper. Drill stem test will be taken where necessary for evaluation. If productive 4 1/2", 10.5#, K55 casing will be run and cemented with 375 sx. 65/35 Pozmix, 6% gel and 10# Gilsonite/sx. Followed with 100 sx. Class "B" Cement w/10% salt. Drilling should require 6 days.

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 H. D. Holsinger TITLE Area Production Supt.  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

APPROVED  
AS AMENDED

APR 30 1982

JAMES F. SIMS  
DISTRICT ENGINEER

NMOCC

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-102  
Revised 10-1-78

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

Operator DOME PETROLEUM CORPORATION			Lease DOME-FEDERAL 1-21-7		Well No. 1
Unit Letter	Section 1	Township 21N	Range 7W	County Sandoval	
Actual Footage Location of Well: 1540 feet from the North line and 1050 feet from the East line					
Ground Level Elev. 6914	Producing Formation Chacra	Pool Rusty Chacra Ext.	Dedicated Acreage: 160.73 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.

Name

H. D. HOLLINGSWORTH

Position

Area Production Supt.

Company

DOME PETROLEUM CORP.

Date

March 24, 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 1, 1982

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0