

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 Bengal B		
2. NAME OF OPERATOR Jerome P. McHugh			9. WELL NO. #6		
3. ADDRESS OF OPERATOR Box 208, Farmington, NM 87401			10. WELL LOCATION South Gallegos PC Ext		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 790' FSL - 790' FEL P At proposed prod. zone			11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 2 T26N R12W		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles south of Bloomfield, NM			12. COUNTY OR PARISH 13. STATE San Juan NM		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'		16. NO. OF ACRES IN LEASE 638.36		17. NO. OF ACRES ASSIGNED TO THIS WELL 160	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3700'		19. PROPOSED DEPTH 1400'		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5926' GR			22. APPROX. DATE WORK WILL START* 11-20-79		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7"	23#	90'	20 sx class "B"
4-3/4"	2-7/8"	6.4#	1400'	100 sx *
50 sx of 2% Lodense w/1/4# cello flake per sx followed by 50 sx neat w/1/4# cello flake per sx.				

Plan to drill 4-3/4" hole to test Fruitland-Pictured Cliffs formation. Plan to run IES log to TD. If productive, plan to set 2-7/8" tbg for csg, cement, selectively perforate, frac, cleanout after frac, run 1-1/4" tbg and complete well.

Plan to use 3000 psi BOP per attached schematic diagram. Will use master valve and stripper head while completing well.

NMERB: Gas not dedicated

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 magnetic SURVEY vertical depths. Give a pre-venter program, if any.

24. SIGNED Thomas A. Dugan TITLE Agent DATE 11-2-79
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ck Frank

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-123
Effective 1-1-65

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

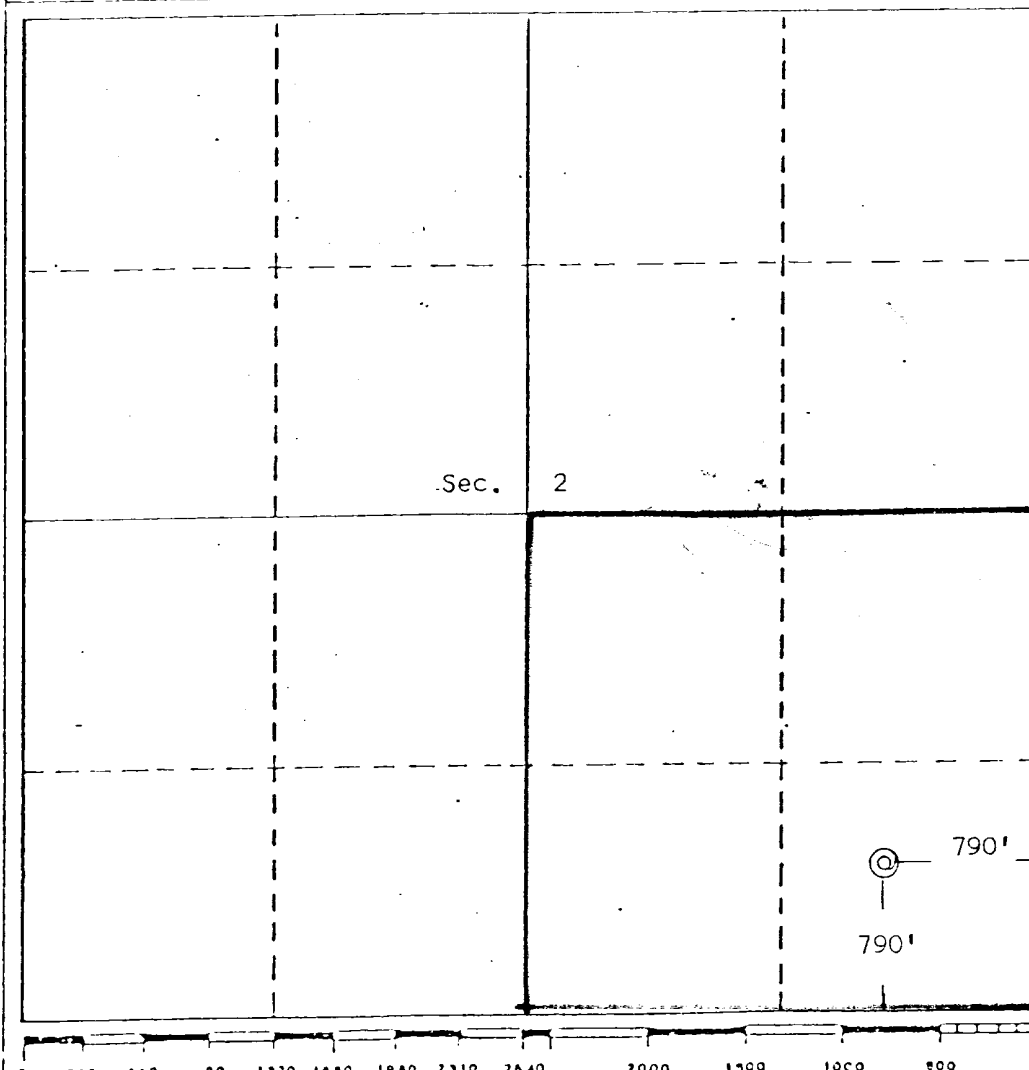
Operator Jerome P. McHugh			Lease Bengal B		Well No. C
Unit Letter P	Section 2	Township 26 North	Range 12 West	County San Juan	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 790 feet from the South line and 790 feet from the East line </div>					
Ground Level Elev. 5926	Producing Formation FR PC	Pool S. Gallegos ext South Gallegos ext		Dedicated Acreage: 160 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.

Thomas A. Dugan
Name

Thomas A. Dugan

Position
Agent

Company
Jerome P. McHugh

Date
11-2-79

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
October 25, 1979

Registered Professional Engineer
and/or Land Surveyor

Edgar L. Risenhoover
Certificate No. 5979
Edgar L. Risenhoover, L.S.

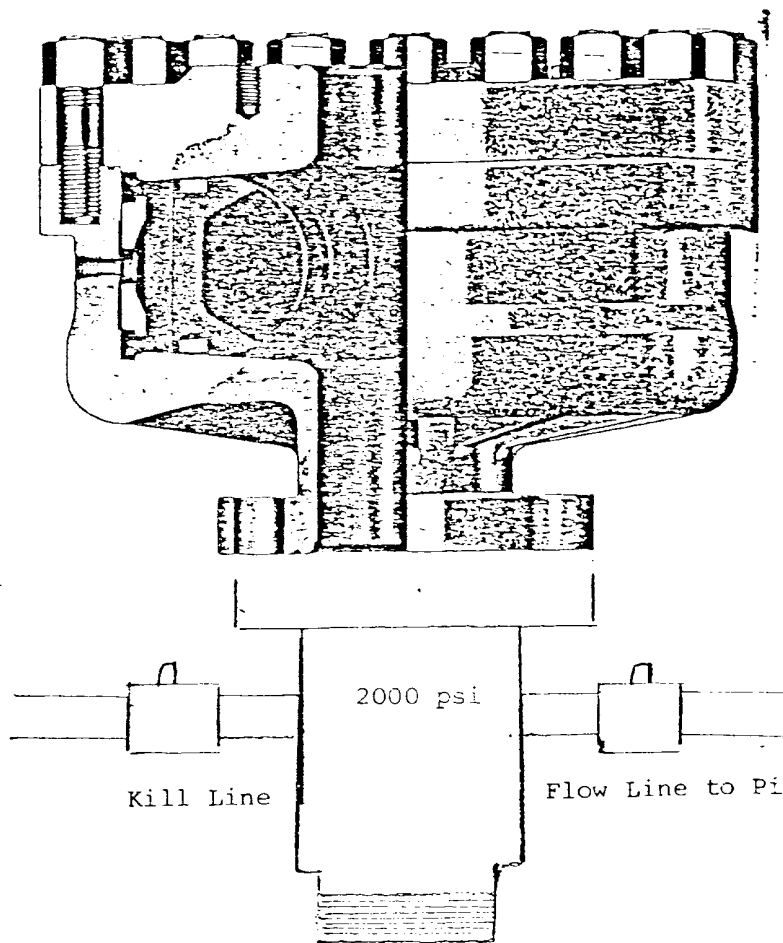
Jerome P. McHugh
Bengal B-6

SCHEMATIC DIAGRAM

TESTING PROCEDURES

Install BOP after setting surface pipe and
pressure test to 1000 psi after drilling out
from under surface pipe.

REGAN BLOWOUT PREVENTERS



The Regan Torus Blowout Preventer is used
primarily on production and workover rigs
for well control up to 3000 PSI working
pressure

DESIGN FEATURES

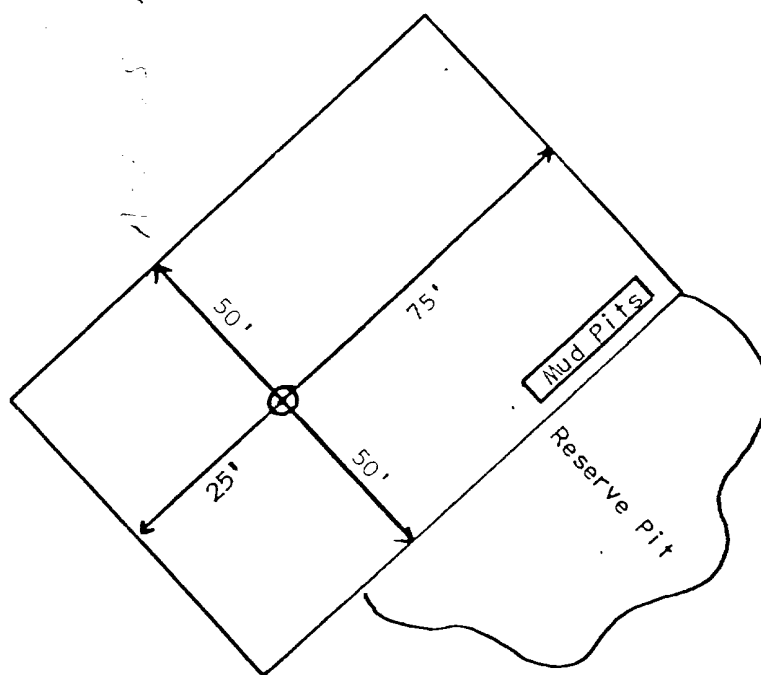
- The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
- The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
- The packer will seal on open hole at full working pressure.
- The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.

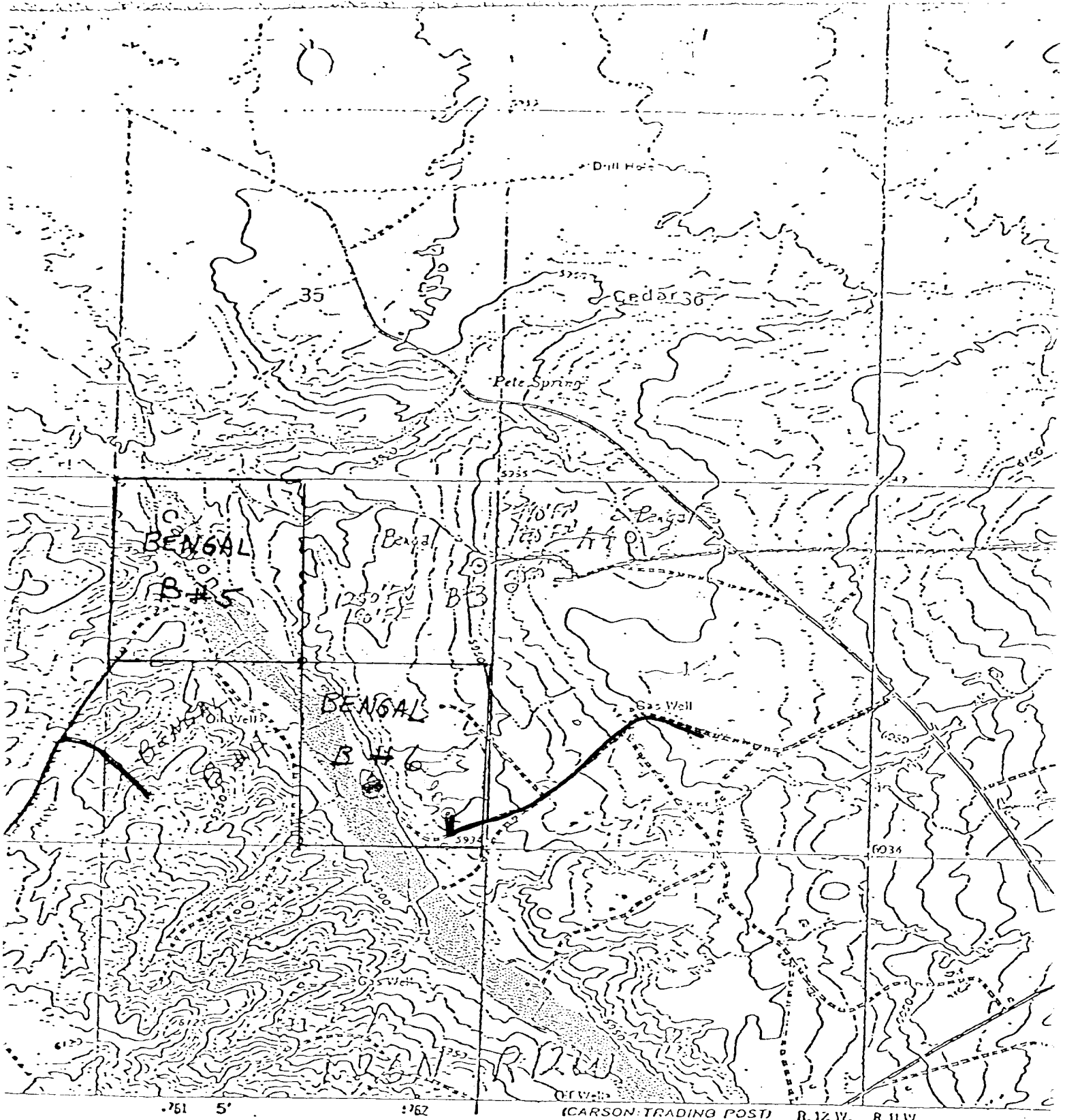
TORUS BLOWOUT PREVENTER
PATENTED

SPECIFICATIONS

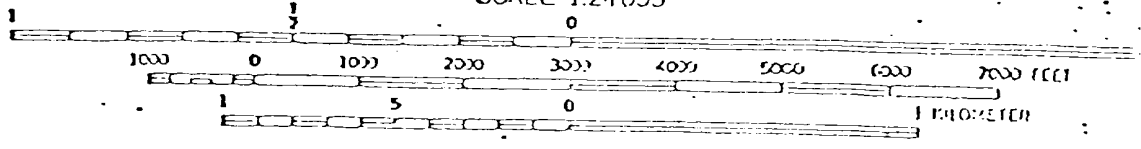
Nominal Size	Test Pressure (psi)	DIMENSIONS (in.)			Weight (lb.)	End Flanges (1)	R/RX Ring Grooves	Side Outlet
		Outside Diameter	Thru Bore	Overall Height				
6	3000	27	7 1/4	19 1/4	1360	Nom. 6	45	None

JEROME P. McHUGH
Bengal B #6
Proposed Location Layout





* Access Road
 Existing Road



1
 355 MAGNETIC NORTH
 CENTER OF SHEET

Existing Road
 Access Road

OPERATIONS PLAN

OPERATOR: Jerome P. McHugh
WELL NAME: Bengal B #6
FIELD: South Gallegos Fruitland Pictured Cliffs
LOCATION: 790' FSL - 790' FEL Sec 2 T26N R12W San Juan County, NM
ELEVATION: 5926' GR

EXPECTED FORMATION TOPS:	Ojo Alamo	250'	Point Lookout
	Kirtland	380'	Mancos
	Fruitland	881'	Gallup
	Pictured Cliffs	1226'	Greenhorn
	Lewis		Graneros
	Cliff House		Dakota
	Menefee		Total Depth 1400'

LOGGING PROGRAM: IES

SAMPLES:

CASING PROGRAM

<u>Hole Size</u>	<u>Depth</u>	<u>Csg Size, Wt, Grade, & Condition</u>	<u>Cementing Program</u>
8-3/4"	90'	7" 23# J-55 "B"	20 sx class "B"
4-3/4"	1400'	2-7/8" 6.4# J-55 "A"	50 sx of 2% Lodense w/1/4# cello flake per sx followed by 50 sx neat w/1/4# cello flake per s Total slurry 161 cu ft

WELLHEAD EQUIPMENT Huber, non flanged 2000# working pressure

Office	-	325-0238
Tom Dugan		325-5694
Jim Jacobs		325-8353
Kurt Faanelius		334-3381

DEVELOPMENT PLAN

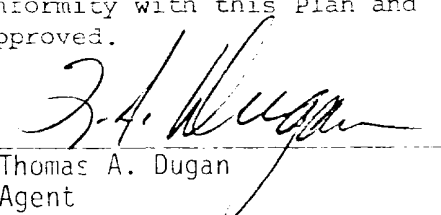
Jerome P. McHugh

Bengal B #6

1. Existing roads and existing wells are shown on attached plat.
2. Planned access from existing road approximately 1000' to new location. Will leave natural grass and small vegetation on roadway. Will remove large brush or trees from road. Do not plan to make road grade or bar ditches. Will bottom out any arroyo we cross and not install culverts.
3. Location of well: 790' FSL - 790' FEL
Sec 2 T26N R12W
San Juan County, NM
4. One additional well(s) planned on this lease at this time.
5. Separator and flow line will be located within 50' of wellhead.
6. Water will be secured from Chaco Plant.
7. Waste materials will be buried on location or in reserve pit.
8. No permanent camp is planned; trailer house will be used on location while drilling.
9. Do not plan to build airstrip.
10. See attached plat for proposed location layout.
11. A general description of the topography, soil characteristics, geologic features, flora and fauna; other surface-use activities and surface ownership of involved lands, proximity of water, occupied dwellings, archeological, historical or cultural sites can be found in the archeologist's report.
12. Geologic name of surface formation: Recent Sand Dunes
13. Estimated tops of important geologic markers:
Ojo Alamo - 250' Pictured Cliffs
Kirtland - 380' - 1226'
Fruitland - 881'
14. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered:
water - Ojo Alamo - 250' gas - Fruitland - 881' gas - Pictured Cliffs 1226'
15. We do not anticipate to encounter any abnormal pressures or temperatures or any potential hazards such as those associated with hydrogen sulfide.
16. Will clean up location, fill and level pits, level ruts in road, reseed location and road with Seed Mixture #2 and paint equipment with Sandstone Brown.
17. Operator's Representative:
Thomas A. Dugan
Box 234
Farmington, NM 87401
18. Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #17 of the Plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this Plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Jerome P. McHugh and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

Date: 11-2-79


Thomas A. Dugan
Agent