6-USGS (Farmington) 1-McHugh 1-File

Form 9-331C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-23952

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 16471

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Bengal B

2. NAME OF OPERATOR: Jerome P. McHugh

9. WELL NO.: #5

3. ADDRESS OF OPERATOR: Box 208, Farmington, NM 87401

10. FIELD AND POOL, OR WILDCAT: S. Gallegos Pict cl ~~PC~~ ext

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1670' FNL - 790' FWL
E
At proposed prod. zone

11. SEC., T., R., M., OR BLK. 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

12. COUNTY OR PARISH: San Juan | 13. STATE: NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
790'	638.36	~~160~~ 159.13
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
2620'	1425'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5873'

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#	1425'	50 sx of 2% Lodense w/1/4# cello flake per sx followed by 50 sx neat w/1/4# cello flake per sx. Total slurry 161 cu ft.

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

RECEIVED
NOV 05 1979
U.S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

NOV 1 1979
OIL CON. COM.
DIST. 3

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 T. A. Duggan TITLE Agent DATE 11-2-79

Thomas A. Dugan

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

ok Brk

*See Instructions On Reverse Side

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	Lease	Well No.
Jerome P. McHugh	Bengal B	B5

Unit Letter	Section	Township	Range	County
E	2	26 North	12 West	San Juan

Actual Footage Location of Well:
1670 feet from the North line and 790 feet from the West line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5873	FR PC	South Gallegos ~~S. Gallegos~~ ext	159.13 ~~160~~ Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

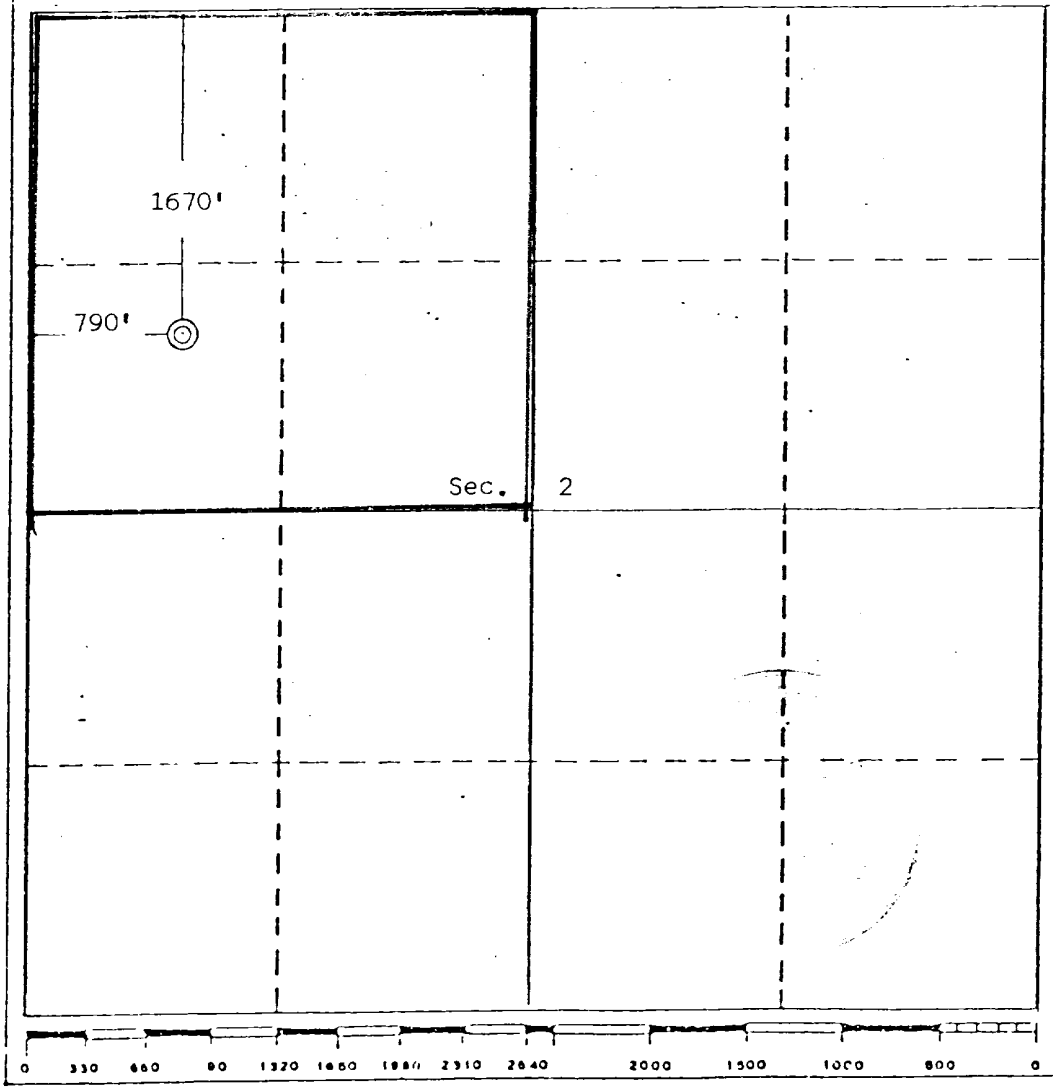
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.

T. A. Dugan

Name: Thomas A. Dugan

Position: Agent

Company: Jerome P. McHugh

Date: 11-2-79

EDGAR L. RISENHOOVER
NEW MEXICO
REGISTERED LAND SURVEYOR

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

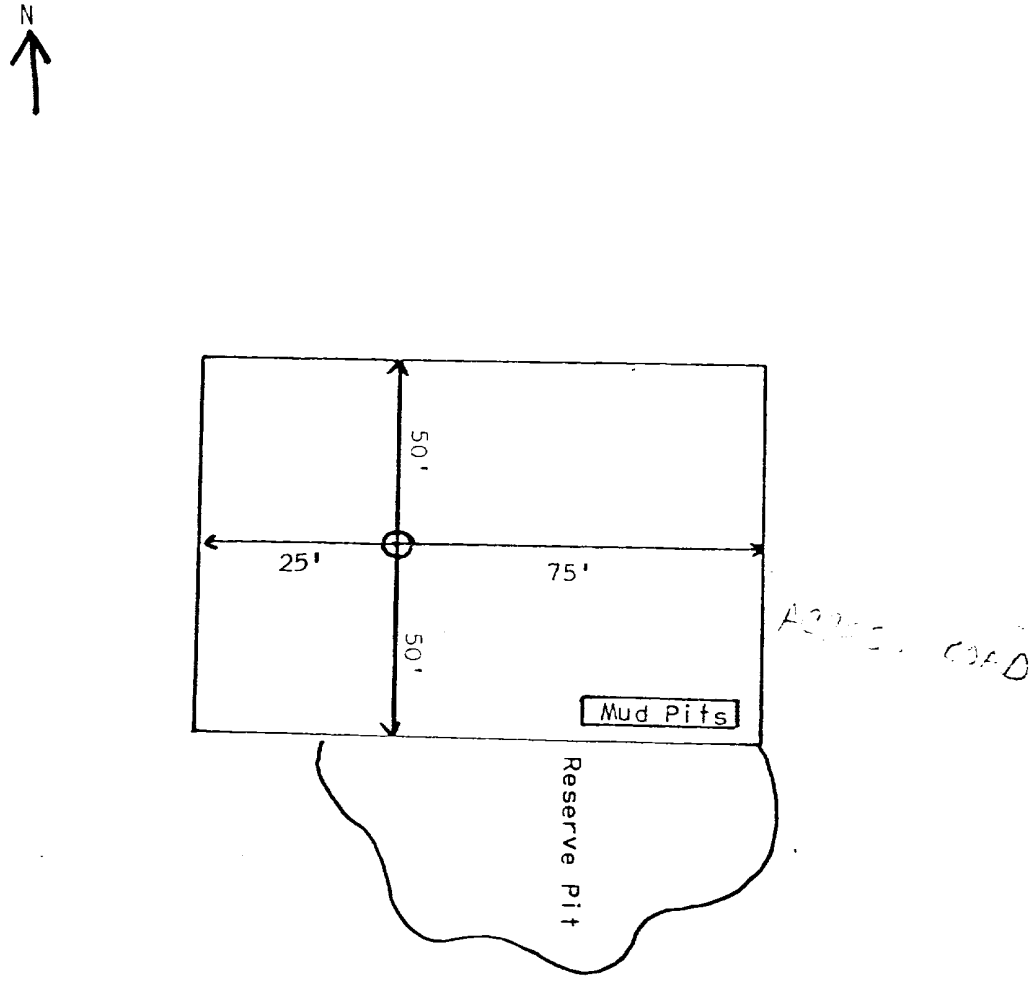
Registered Professional Engineer and/or Land Surveyor

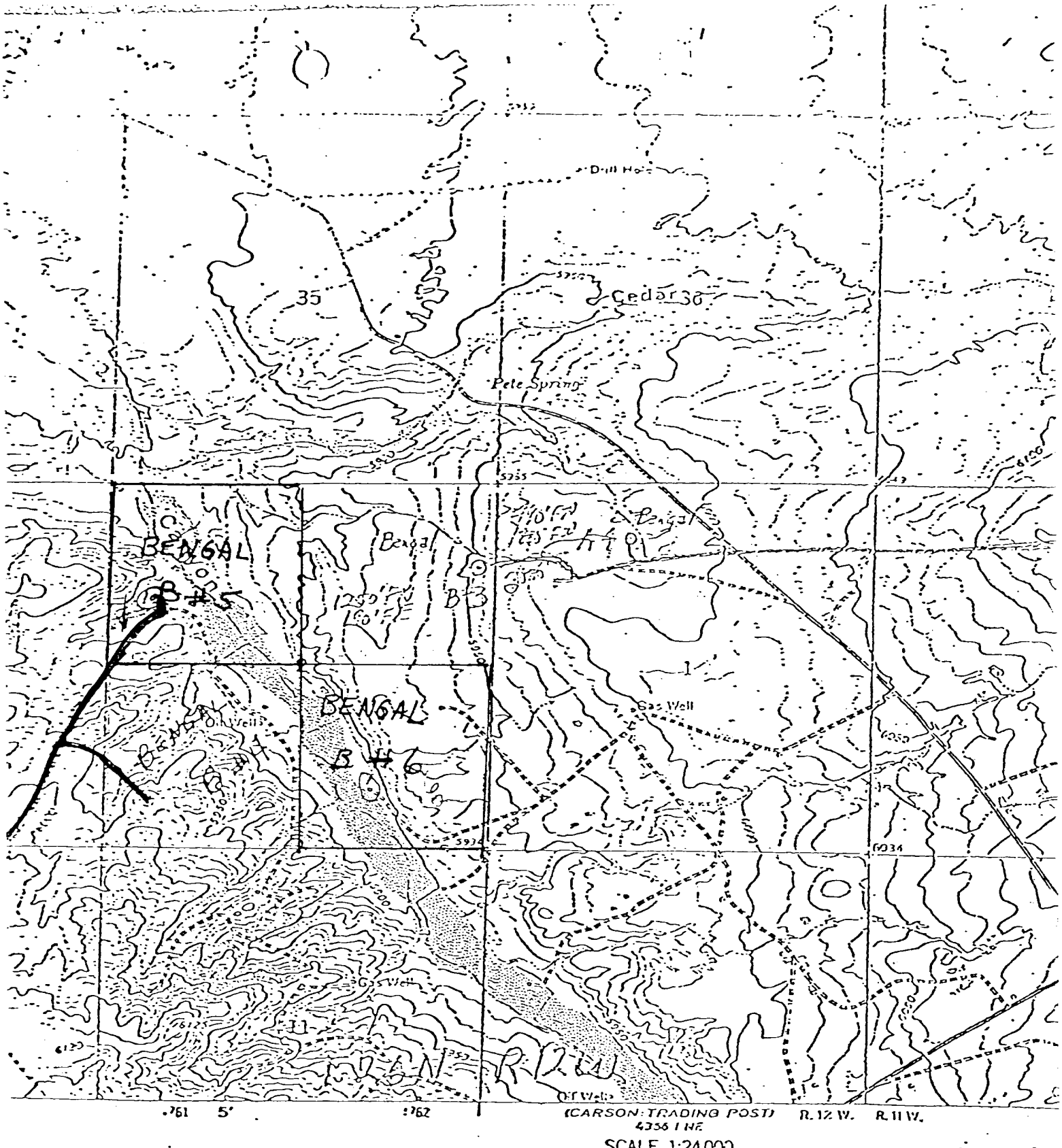
Edgar L. Risenhoover

Certificate No. 5979

Edgar L. Risenhoover, L.S.

Jerome P. McHugh
Bengal B #5
PROPOSED LOCATION LAYOUT





SCALE 1:24000

1 0

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET

DATUM IS MEAN SEA LEVEL

Access Road

Existing Road

1 BENGAL #B-5

55 MAGNETIC NORTH
CENTER OF SHEET

Existing Road

Access Road

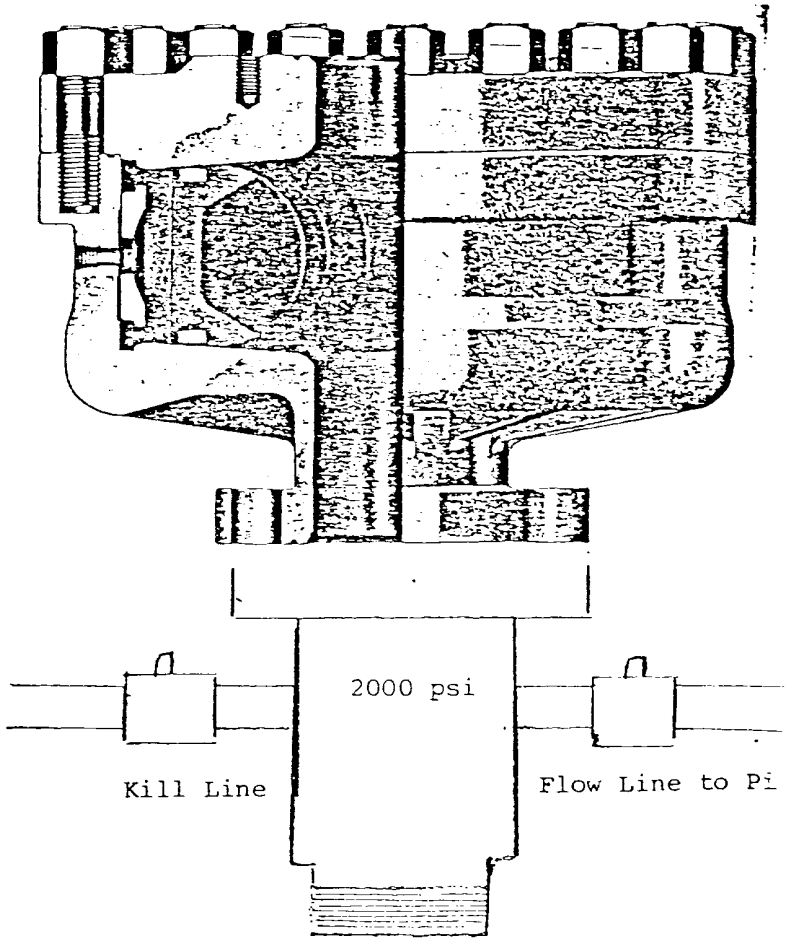
Jerome P. McHugh
Bengal B #5

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

a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
c. The packer will seal on open hole at full working pressure.
d. 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.) Outside Diameter	Thru Bore	Overall Height	Weight (lb.)	End Flanges (1)	R/RX Ring Grooves	Side Outlet
6	3000	27	7 1/16	19 1/4	1360	Nom. 6	45	None

OPERATIONS PLAN

OPERATOR: Jerome P. McHugh

WELL NAME: Bengal B #5

FIELD: South Gallegos FR PC

LOCATION: 1670' FNL - 790' FWL Section 2 T26N R12W San Juan County, NM

ELEVATION: 5873' GR

EXPECTED FORMATION TOPS:

Ojo Alamo	250'	Point Lookout	
Kirtland	398'	Mancos	
Fruitland	958'	Gallup	
Pictured Cliffs	1298'	Greenhorn	
Lewis		Graneros	
Cliff House		Dakota	
Menefee		Total Depth	1425'

LOGGING PROGRAM: IES

SAMPLES:

CASING PROGRAM

Hole Size	Depth	Csg Size, Wt, Grade, & Condition			Cementing Program
8-3/4"	90'	7"	23# J-55	"B"	20 sx class "B"
4-3/4"	1425'	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 sx. 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 Fagrelius	334-3381

DEVELOPMENT PLAN

Jerome P. McHugh

Bengal B #5

1. Existing roads and existing wells are shown on attached plat.

2. Planned access from existing road approximately 1500' 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: 1670' FNL - 790' FWL
Section 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' Kirtland - 398' Fruitland - 958' Pictured Cliffs - 1298'

14. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered:
water - Ojo Alamo - 150' gas - Fruitland 958' gas - Pictured Cliffs 1298'

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

T. A. Dugan

Thomas A. Dugan
Agent