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

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-045-23954

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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

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

2. NAME OF OPERATOR
Jerome P. McHugh

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
790' FSL - 1850' FEL
O
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.
NM 622

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Chaco Plant

9. WELL NO.
12J

10. FIELD AND POOL, OR WILDCAT
WAW
South Callegos FR PC

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 22 T26N R12W

12. COUNTY OR PARISH
San Juan

13. STATE
NM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 miles south of Farmington, 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'	160	160
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**
1060'	1350'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6128' 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"	90'	23#	90'	20 sx class "B" cement
4-3/4"	1350'	6.4#	1350'	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.

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. Dugan 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

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION

WELL L ATION AND ACREAGE DEDICATION PL

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	Chaco Plant	#12J

Unit Letter	Section	Township	Range	County
O	22	26 North	12 West	San Juan

Actual Footage Location of Well:
790 feet from the South line and 1850 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6128	Fruitland PC	~~South Gallegos~~ W4W	160 Acres

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

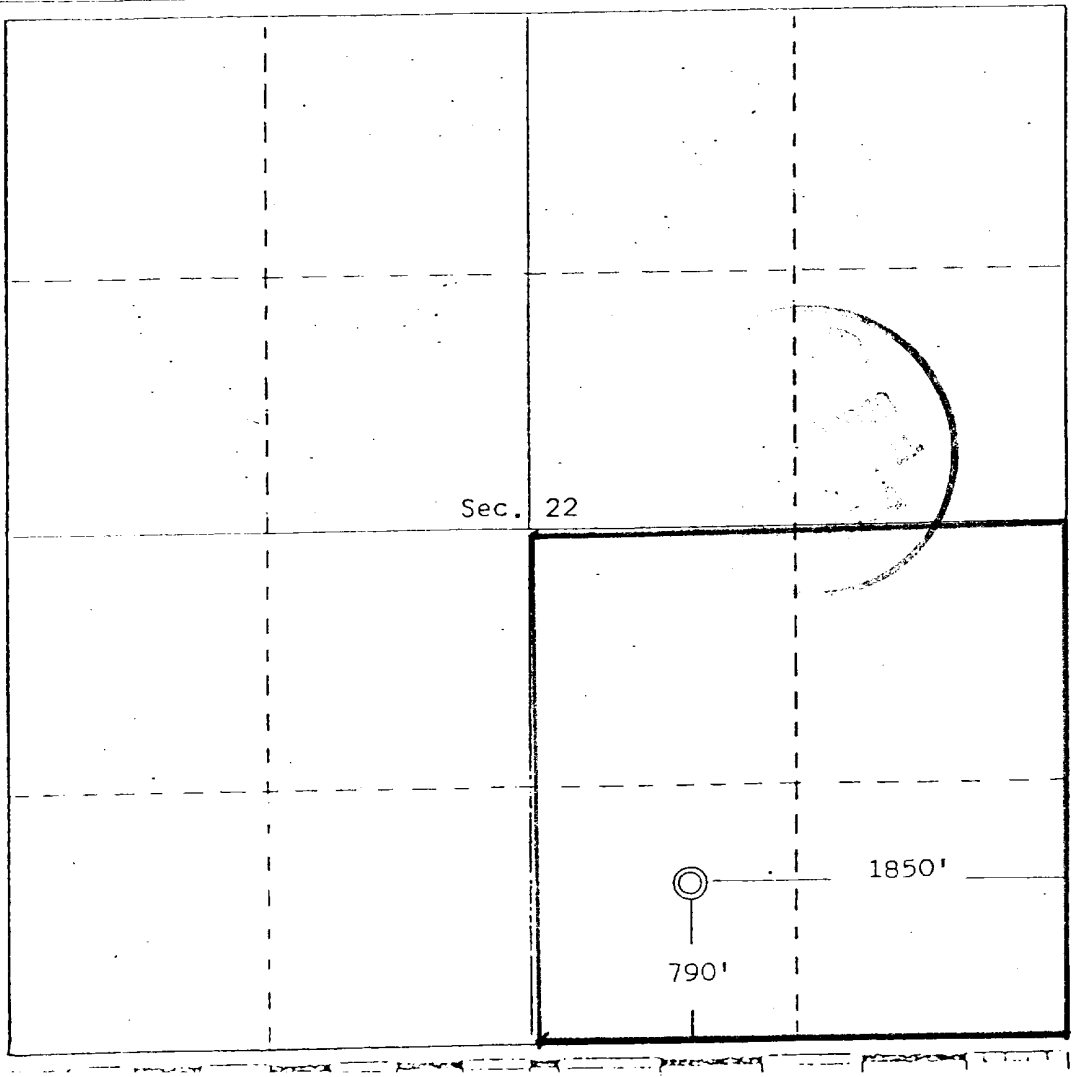
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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
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: June 8, 1979

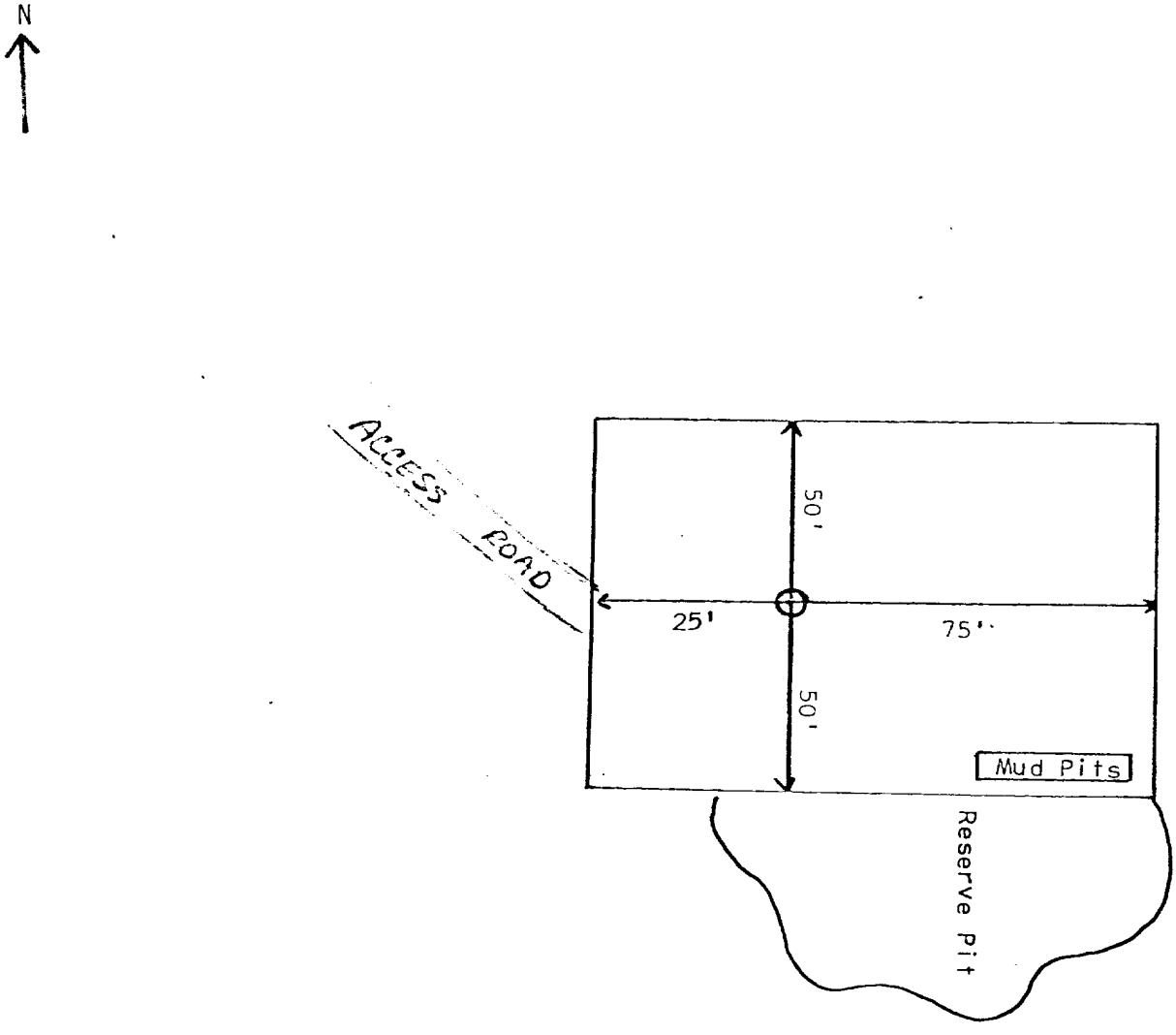
Registered Professional Engineer and/or Land Surveyor

Edgar L. Risenhoover

Certificate No. 5979

Edgar L. Risenhoover, L.S.

Jerome P. McHugh
Chaco Plant #12J
Proposed Location Layout



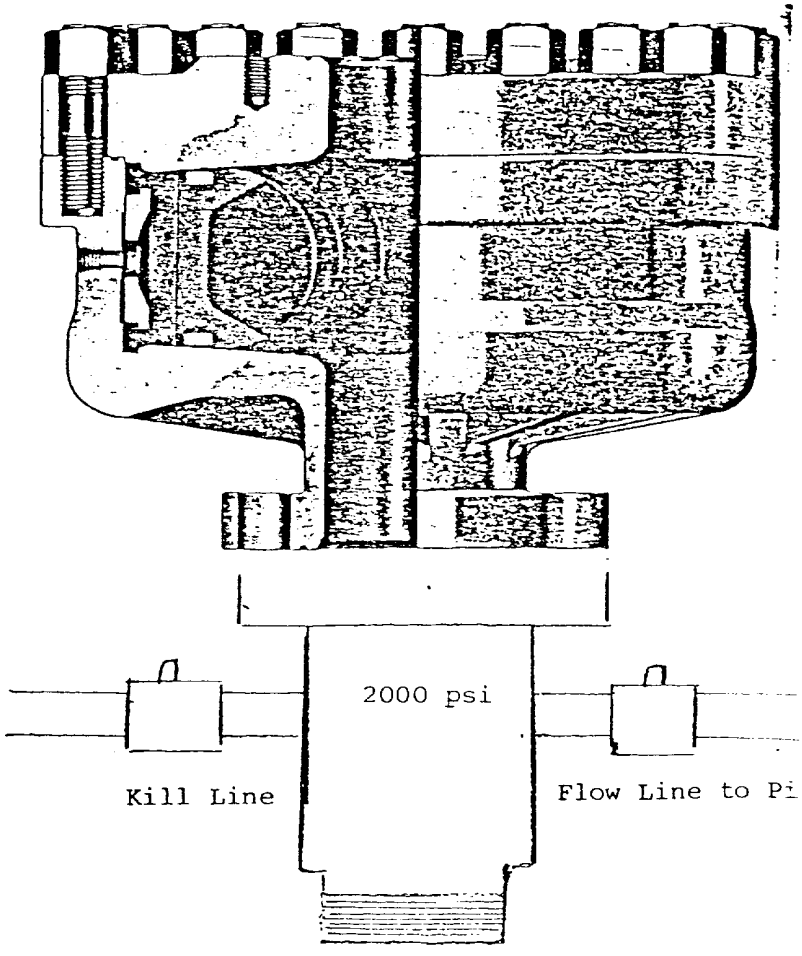
Jerome P. McHugh
Chaco Plant #12J

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



TORUS BLOWOUT PREVENTER
PATENTED

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.

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 1/8	1360	Nom. 6	45	None

OPERATIONS PLAN

OPERATOR: Jerome P. McHugh

WELL NAME: Chaco Plant #12J

FIELD: Gallegos Fruitland Pictured Cliffs

LOCATION: 790' FSL - 1850' FEL Sec 22 T26N R12W San Juan County, NM

ELEVATION: 6128' GR

EXPECTED FORMATION TOPS:

Ojo Alamo	125'		Point Lookout
Kirtland	250'		Mancos
Fruitland	900'		Gallup
Pictured Cliffs		1210'	Greenhorn
Lewis			Graneros
Cliff House			Dakota
Menefee			Total Depth 1350'

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" cement
4-3/4"	1350'	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
Bill Donovan	325-5692
James Hazen	

DEVELOPMENT PLAN

Jerome P. McHugh

Chaco Plant #12J

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 - 1850' FEL
Section 22 T26N R12W
San Juan County, NM

4. No 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 - 125' Kirtland - 250' Fruitland - 900' Pictured Cliffs - 1210'

14. Estimated depths of anticipated water, oil, gas, or other mineral bearing formations which are expected to be encountered:
Ojo Alamo - 125' - water Fruitland - 900' gas Pictured Cliffs - 1210' - gas

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

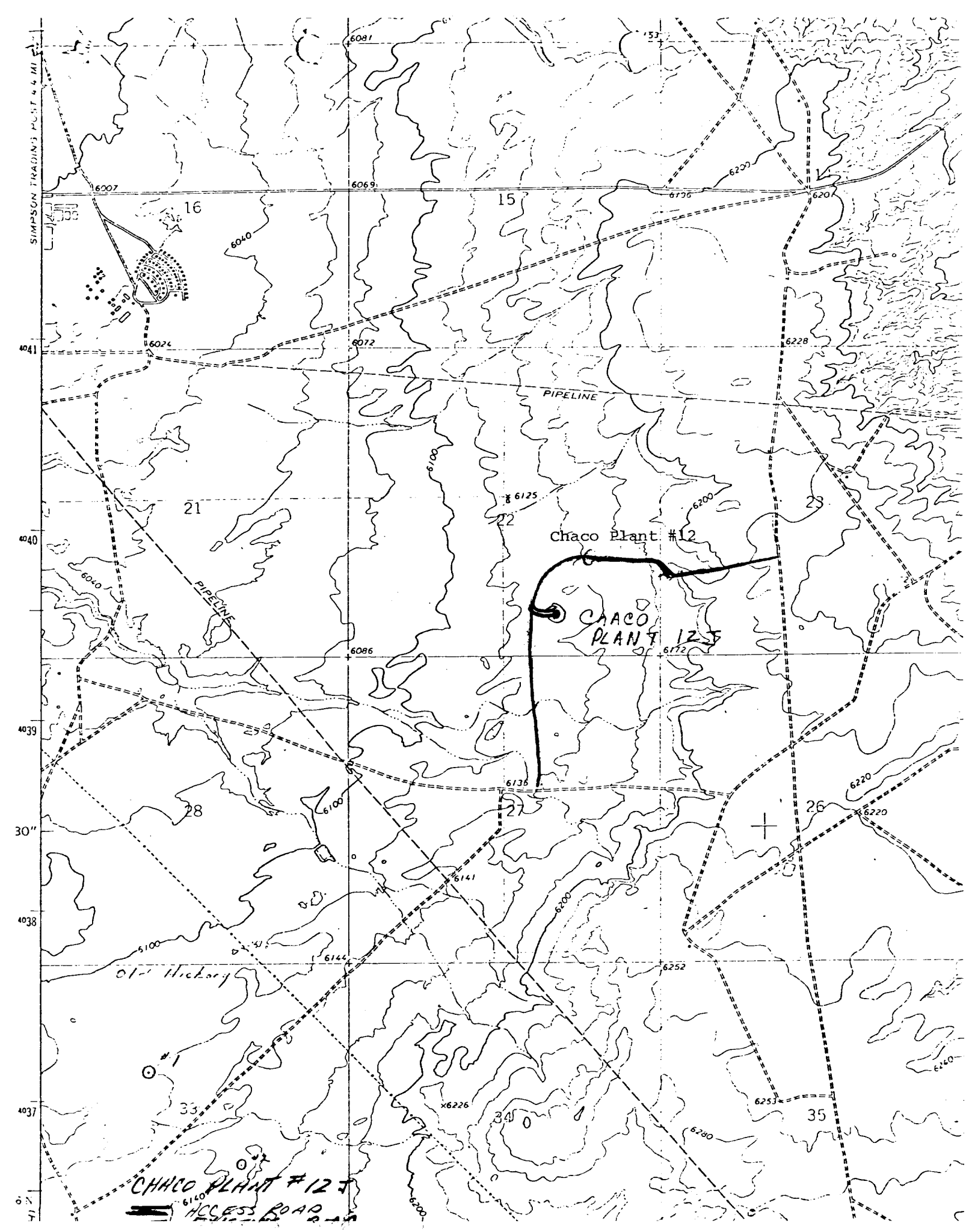
18. Certification: The following statement must be signed by the lessee's or operator's field representative who is identified in Item #17 of the Plan:

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


Chaco Plant #12
CHACO PLANT 12
PIPELINE
PIPELINE
PIPELINE
Old Hickory
CHACO PLANT #12
ACCESS ROAD
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