

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"/>			5. LEASE DESIGNATION AND SERIAL NO. 30-043-20769		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			Contract No. 360		
2. NAME OF OPERATOR Jack A. Cole			6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache		
3. ADDRESS OF OPERATOR P.O. Box 191, Farmington, New Mexico 87401			7. UNIT AGREEMENT NAME		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 790' FNL, 1850' FEL ✓ At proposed prod. zone Same			8. FARM OR LEASE NAME Chacon Amigos		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 32 Miles Northwest of Cuba, New Mexico			9. WELL NO. 1		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790'			10. FIELD AND POOL, OR WILDCAT Chacon Dakota Associated		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1060'			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2 -T22N-R3W N.M.P.M.		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7162'GL, 7175'DF, 7176'KB			12. COUNTY OR PARISH Sandoval		
23. PROPOSED CASING AND CEMENTING PROGRAM			13. STATE NM		
16. NO. OF ACRES IN LEASE 2541			17. NO. OF ACRES ASSIGNED TO THIS WELL 160 160		
19. PROPOSED DEPTH 7250'			20. ROTARY OR CABLE TOOLS Rotary		
22. APPROX. DATE WORK WILL START* 5-20-80					

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24.0	250'	250 Sacks - to surface
7-7/8"	4-1/2"	10.50 & 11.60	7250'	370 Sacks - 140 Sacks 2 Stages

All producing intervals in Dakota Formation will be perforated and stimulated as necessary.

EXHIBITS

"A" - Location and Elevation Plat
"B" - Ten Point Compliance Program
"C" - Blowout Preventer Diagram
"D" - Multi-Point Requirements of A.P.D.

"A" - Access Road to Location
"F" - Radius Map of Field
"G" - Drill Rig Layout
"H" - Fracturing Program Layout

The gas for this well is committed.

The NE/4 Section 2 is dedicated to this well.

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 measurements and true vertical depths. Give blowout preventer program, if any.

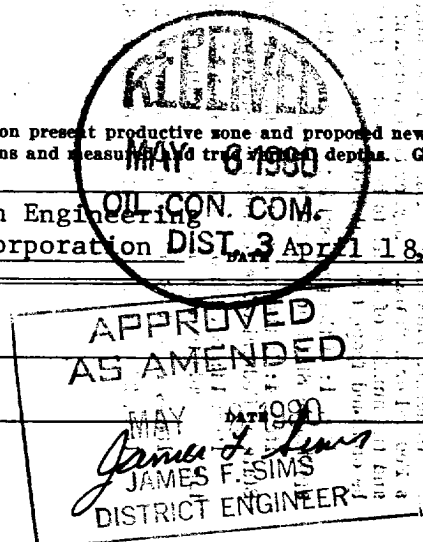
24. FOR: JACK A. COLE
SIGNED ORIGINAL SIGNED BY
E. J. WALSH P.E.
President, Walsh Engineering
& Production Corporation
TITLE
DIST. 3 April 18, 1980

PERMIT NO. APPROVAL DATE

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

*See Instructions On Reverse Side



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

Operator JACK A. COLE		Lease CHACON AMIGOS		Well No. 1
Unit Letter B	Section 2	Township 22N	Range 3W	County Sandoval

Actual Footage Location of Well:

790 feet from the **North** line and **1850** feet from the **East** line

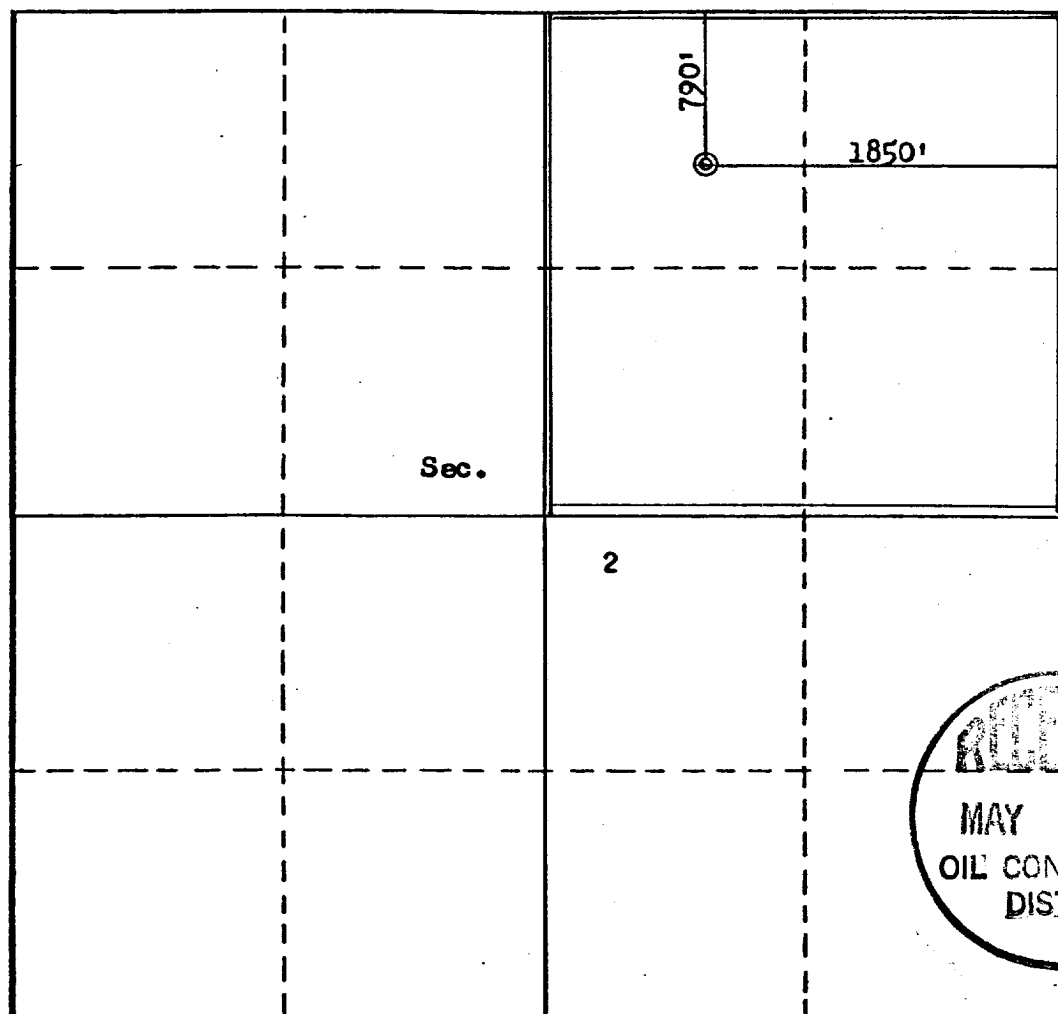
Ground Level Elev. 7162	Producing Formation Dakota	Pool Chacon Dakota Associated	Dedicated Acreage: 160 160 Acres
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1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is 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.

FOR: Jack A. Cole

SIGNED BY

Name **EWELL N. WALSH**

Ewell N. Walsh, P.E.

Position

President

Company **Walsh Engineering & Production Corporation**

Date

April 18, 1980

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.

MAY 6 1980
OIL CON. COM.
DIST. 3

Date Surveyed

April 18, 1980

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No.

3950

FRED B. KERR, JR.

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

Jack A. Cole

Chacon Amigos No. 1

790'FNL, 1850'FEL, Section 2-T22N-R3W

Sandoval County, New Mexico

1. The Geologic Surface Formation

Nacimiento

2. Estimated Tops of Important Geologic Markers

Ojo Alamo	2307'	Point Lookout	4727'
Pictured Cliffs	2651'	Gallup	5744'
Chacra	3467'	Graneros	6861'
Cliff House	4184'	Dakota	6888'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Ojo Alamo	- 2307', Water
Pictured Cliffs	- 2651', Gas
Gallup	- 5744', Minor Gas and Oil
Dakota	- 6888', Gas and Oil

4. The Proposed Casing Program

<u>Hole Size</u>	<u>Interval</u>	<u>Section Length</u>	<u>Size (OD)</u>	<u>Weight, Grade and Joint</u>	<u>New or Used</u>
12 $\frac{1}{4}$ "	0' - 250'	250'	8-5/8"	24# K-55 8 round ST&C	New
7-7/8"	0' - 6050'	6050'	4 $\frac{1}{2}$ "	10.50# K-55 8 round ST&C	New
7-7/8"	6050' - 7250'	1200'	4 $\frac{1}{2}$ "	11.60# K-55 8 round ST&C	New

Cement Program

Surface - 8-5/8": 250 Sacks Class "B", 3% CaCl_2 & 1/4 lb. Flocele per sack.

Production - 4-1/2 " First Stage - 500 gallons Mud Flush followed by 370 sacks - 50/50 Pozmix, 2% Gel, with 6-1/4 lbs. Gilsonite and 6 lbs. salt per sack. Calculated top of cement at 5550'.

Second Stage - 500 gallons Mud Flush followed by 140 sacks 65/35 Pozmix, 12% Gel, with 6-1/4 lbs. Gilsonite followed by 50 sacks Class "B" Neat Cement, Stage Tool at 2900'. Calculated top of cement at 2100'.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include floor safety valve, and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil in the surface. Heavier muds will be on location to be added if pressure requires.

<u>Interval</u>	<u>Type</u>	<u>Weight/Gal.</u>	<u>Viscosity (Sec.)</u>	<u>Water Loss</u>	<u>Additives</u>
0 - 250	Gel-Water	9.0	50	-	Lime
250 - T.D.	10% Oil Base	8.8 - 9.2	42	4.0	Gel, Thinner, CMC, Oil

7. The Auxiliary Equipment to be Used

- (a) A float will be used at the bit.
- (b) The mud system will be monitored visually.
- (c) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

(a) DST - None

(b) Logging - ISF, 250' - T.D.
CNL-FDC, 2200' - 2900' and 5500' - T.D.

(c) Coring - None

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 3100 psig.

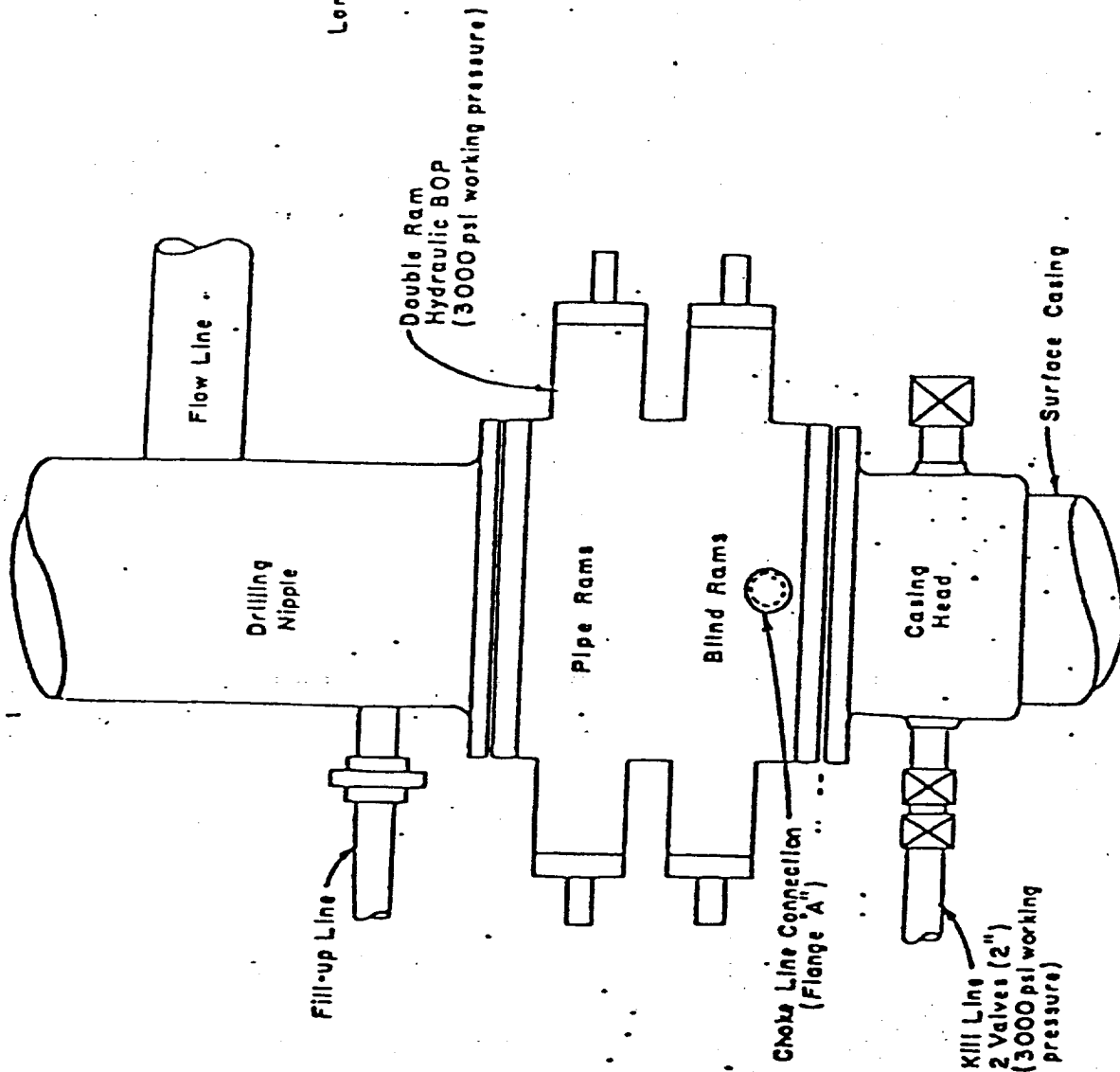
No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for May 20, 1980 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within Ten days.

Blowout Preventer Diagram

JACK A. COLE
CHACON AMIGOS NO. 1
790' FNL, 1850' FEL, Section 2-T22N-R3E
Sandoval County, New Mexico



Flanged Cross with Pressure Gauge in Outside Opening

Long Positive Choke

2" Plug Valves 2000 CWP

Positive Choke or Variable Choke

Flange "A"

PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C

JACK A. COLE
CHACON AMIGOS NO. 1
790' FNL, 1850' FEL, Section 2-T22N-R3W
Sandoval County, New Mexico

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. Directions: South on Highway 44 from Bloomfield, New Mexico - 65 miles. Turn left on State Road 537 (Dulce Road) - 3½ miles. Turn right on dirt road (Jicarilla J-20) - 5 miles. Turn right at road fork - 2½ miles, turn left (Jicarilla J-22) - 2 miles. Turn right 1/4 mile to location.
- C. All roads to location are indicated on Exhibit "E". Existing roads will be improved.
- D. Exploratory wells, existing roads: N/A
- E. Development wells, existing roads: See Exhibit "E" and "F".
- F. Improvement and maintenance: Existing roads need no improvement. Access road will be improved and maintenance will be performed as required.

2. Planned Access Roads

Exhibit "E" Access road, 1/4 mile, will have maximum width of 20'. No turnouts, no culverts, no gates, cattle guards or fence cuts. Surfacing material will be native soil.

3. Location of Existing Wells

For all existing wells within one mile radius of development well, see EXHIBIT "F".

- (1) There are no water wells within a one mile radius of this location.
- (2) There is one abandoned well in this one mile radius.

- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are 9 producing wells within this one mile radius.
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within one mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

B. If production is obtained, new facilities will be as follows:

- (1) All production facilities will be located on the pad.
- (2) All well flow lines will be buried and will be on the well site and battery site.
- (3) Drill pad will be 300 feet long and 155 feet wide.
- (4) No construction materials for battery site and pad will be necessary.
- (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- (6) Rehabilitation whether well is productive or dry, will be made on all unused areas in accordance with BIA stipulations.

5. Location and Type of Water Source

- A. The source of water will be water well in NW/4, Section 15-T23N-R6W.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling and access roads into the drilling location unless production is obtained. The surface soil materials will be sufficient or will be provided by the Dirt Contractor as needed.
- B. No construction materials will be taken off Federal or Indian Lands.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit and covered.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids provided during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters or other noxious fluids will be cleaned up and removed.
- (4) Chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "G". Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout.

Topsoil, if removal required, will be stockpiled per specifications determined at time of pre-drill inspection.

- (2) EXHIBIT "G" is a plan diagram of the proposed rig and equipment reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.
- (3) The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

- (1) Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material, if removal required, will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup is accomplished.
- (4) The rehabilitation operations will begin as soon as possible after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best from July 15 to September 15, unless requested otherwise.

11. Other Information

(1) Soil - Sandy, clayey, loam
Vegetation - Sage, Snake Weed, Rabbit Brush and Squirreltail.

(2) The primary surface use is for grazing. The surface is owned by the Jicarilla Indian Tribe

(3) The closest live water is the - None

The closest occupied dwellings - 2½ miles.

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

(4) Restrictions: Operator must have all rights from base of Pictured Cliffs through Dakota.

(5) Drilling is planned for on or about May 20, 1980 Operations should be completed within 20 days.

12. Lessee's or Operator's Representative

Ewell N. Walsh, P.E. President
Walsh Engineering & Production Corporation
P. O. Box 254
Farmington, New Mexico 87401
Telephone: (505) 327-4892, 24 hrs.

13. Certification

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 Getty Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 18, 1980

Date

ORIGINAL SIGNED BY

Ewell N. Walsh

Ewell N. Walsh, P.E.

President

Walsh Engineering & Production Corp.

Walsh ENGINEERING & PRODUCTION CORP.

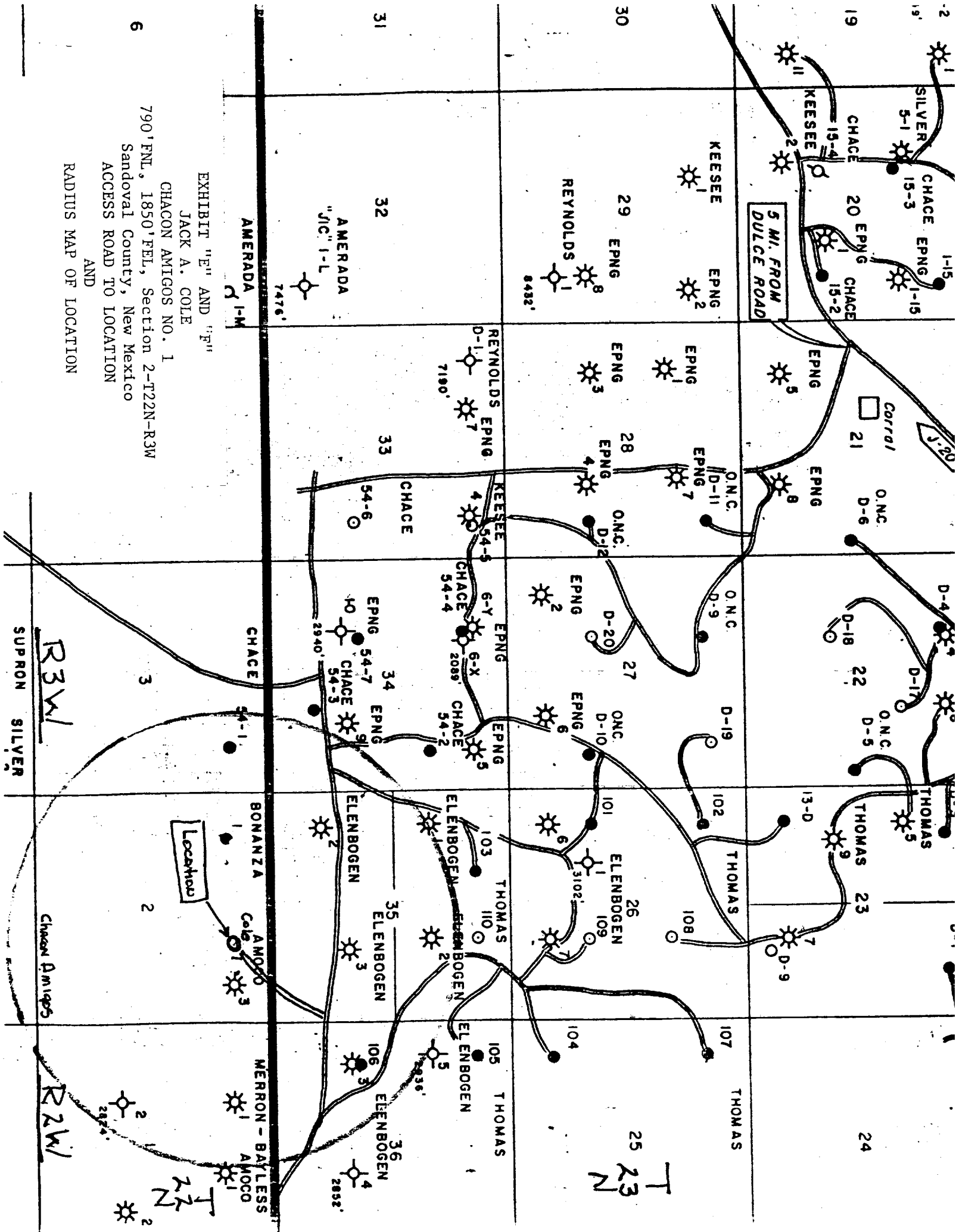
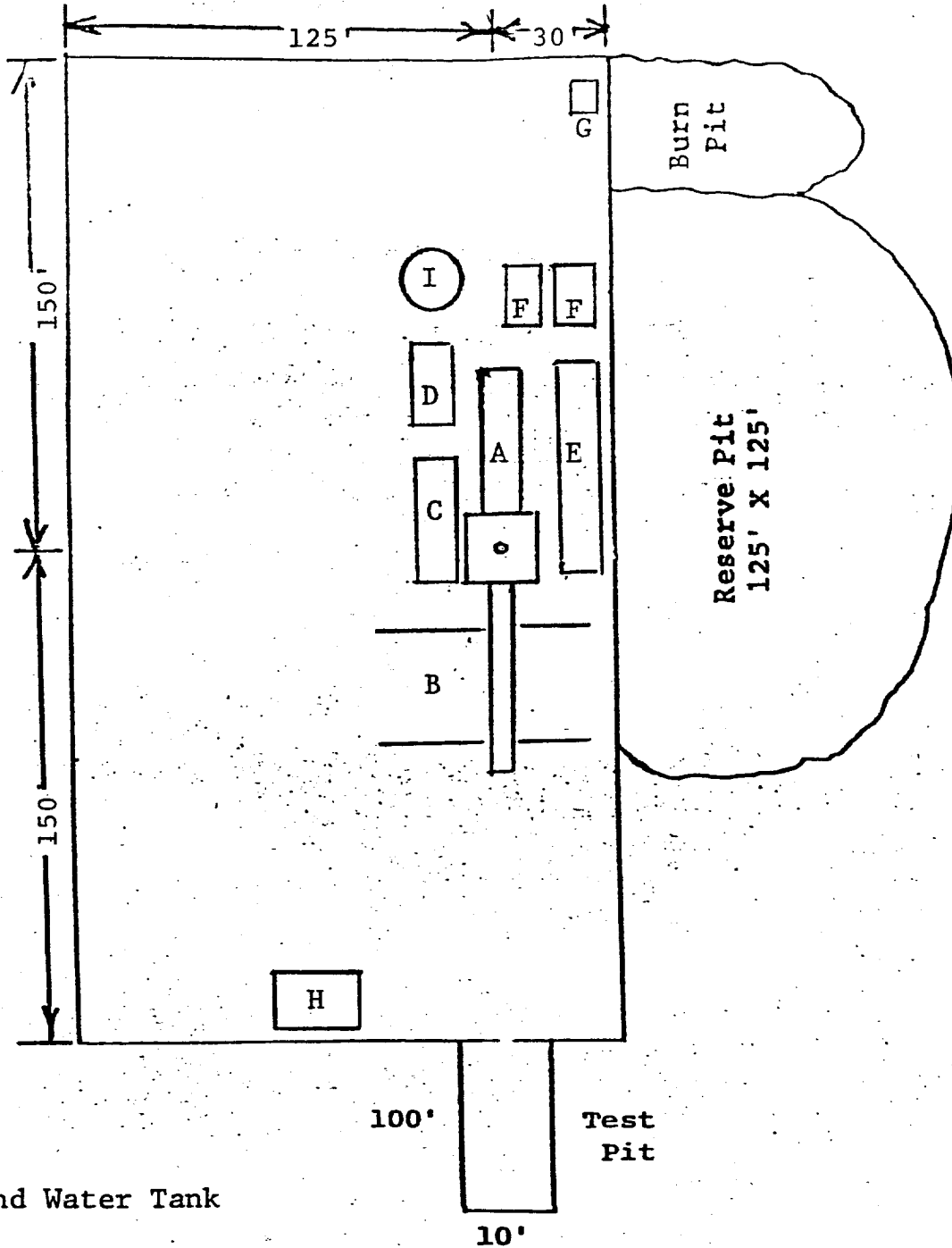


EXHIBIT "E" AND "F"
 JACK A. COLE
 CHACON AMIGOS NO. 1
 790' FNL, 1850' FEL, Section 2-T22N-R3W
 Sandoval County, New Mexico
 ACCESS ROAD TO LOCATION
 AND
 RADIUS MAP OF LOCATION

EXHIBIT "G"

Drill Rig Layout

JACK A. COLE
CHACON AMIGOS NO. 1
790' FNL, 1850' FEL, Section 2-T22N-R3W
Sandoval County, New Mexico



- A - Rig
- B - Piperacks
- C - Doghouse and Water Tank
- D - Fuel
- E - Mud Pit
- F - Pumps
- G - Toilet
- H - Trailer House
- I - Oil Storage

EXHIBIT "H"

Fracturing Program
Layout

JACK A. COLE

CHACON AMIGOS NO. 1

790' FNL, 1850' FEL, Section 2-T22N-R3W
Sandoval County, New Mexico

