UNITED STATES DEPARTMENT OF THE INTERIOR

	TOF THE INT	ERIOR	ide)	30-043-205-37		
GEOLO	GICAL SURVEY			Contract No. 360		
APPLICATION FOR PERMIT	TO DRILL, DE	PEN, OR PLUG I	IACK	6. IF INDIAN, ALLOTTEE OR TRUE NAME.		
DRILL X	DEEPEN :	PLUG BA		Jicarilla Apache 7. UNIT AGREEMENT NAME		
b. TIPE OF WELL						
WELL COTHER 2. NAME OF OPERATOR		SINGLE X MULTI		S. FARM OR LEASE NAME		
JACK A. COLE		r		Chacon Amigos 9. WELL NO.		
3. ADDRESS OF OPERATOR		DE		3		
P. O. Box 191 Far 4. LOCATION OF WELL (Report location clearly and	mington, N.		4	10. FIELD AND POOL, OR WILDCAT		
At surface 1850*FNL, 990'FWL	, in notice with the			Chacon Dakota Association BEC., T., B., M., OR BLK.		
At proposed prod. zone		SEP 2018	89	Section 12-122N-R3W		
Same 14. DISTANCE IN MILES AND DIRECTION FROM NEA	PERT TOWN OF PORT OF	U. S. GROLDOICAL	+1	N.M.P.M.		
32 miles Northwest of C				\$andoval N.M.		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST	, 16.	NO. OF ACRES IN LEASE		F ACRES ASSIGNED HIS WELL 160		
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	4290	2541				
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR. ON THIS LEASE, FT.	5000	PROPOSED DEPTH 1	1	BY OR CABLE TOOLS		
21. BLEVATIONS (Show whether DF, RT, GR, etc.)	<u> </u>		I RO	22. APPROX. DATE WORK WILL START		
7145 GL, 7158 D.F.,	7159 K.B		30 m	December 1980		
23.	PROPOSED CASING A	AND CEMENTING PROGR.	, M	80. 100 100 100 100 100 100 100 100 100 1		
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
12 1/4" 8 5/8	24.0	250'		sacks - to surface		
7 7/8" 4 1/2"	10.50 & 11.60	7040 '	370	sacks - 140 sacks 2 stages		
All producing intervals stimulated as necessary. EXHIBITS		ormation will	be pe	rforated and		
"A" Location and Elevation Plat. "B" Ten Point Compliance Program. "C" Blowout Preventer Diagram. "C" Dillerig Layout. "C" D'llerig Layout.						
The gas from this well in The NW/4, Section 12 is IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If page to the proposed is to drill or deepen directions.	dedicated t	r plug back give data on b	esem produ	in an interest of the proposed new productive sone and proposed new productive sone sone sone sone sone sone sone son		
preventer program, if any.		on supportate about the El		and true vertical depths a drive blowout		
ORIGINAL SIGNED BY	TITLE	President Wa	orp.	9/25/80		
(This space for Federal or State office use).			-			
APPROVED		APPROVAL DATE	<u>:</u>			
AS WESTERNA			10			
CONDITIONS OF APPROVAL, IT AND	TITLE _		<u>**</u>	DATE TO BE		
LAMES F. SIMS DISTRICT ENGINEER			ı	Degrand Degran		
od 3m	*See Instruction	ns On Reverse Side				

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO HERGY AID MINERALS DEPARTMENT

P. O. DOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107

			All distant	res must be fr	um the Eule	r lioundarles e	f the Sec	lm.	
Operator		-			Lease				Well No.
JACK A. COLE			CHACO	n amigos			3		
Unit Letter	Secti	on	Township		1Rang∙		County		
E	1 13	2	22N		3	W	Sar	doval	,
Actual Footage Loc	1								
1850		from the No.	rth	line and	990	fee	t from the	West	line
Ground Level Elev:		Producing For		11110 (41)	Pool				Dedicated Acreages
7145		Dakota			Chacor	n Dakota	Assoc	iated	160 Acres
					·			·	
2. If more the interest a	han o nd roy	ne lease is valty).	dedicate	d to the wel	ll, outline	each and ide	entify the	: ownership	the plat below. thereof (both as to working of all owners been consoli-
dated by dat	is "r	nitization, u No If a	nitization	n, force-pool	ing. etc? of consolic	dation			of all owners been consoli-
this form i No allowa	if nec ble w	essary.) ill be assign	ed to the	well until al	l interests	s have been	consolid	ated (by co	ommunitization, unitization, en approved by the Commis-
								- 1	CERTIFICATION
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EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

JACK A. COLE CHACON AMIGOS NO. 3 1850'FNL, 990"FWL, SECTION 12-T22N-R3W Sandoval County, New Mexico

1. The Geologic Surface Formation

Nacimento

2. Estimated Tops of Important Geologic Markers

Ojo Alamo	2220'	Point Lookout	4665'
Pictured Cliffs	2580 '	Gallup	5690 '
Chacra	3340'	Graneros	6750 '
Cliff House	4080	Dakota	6780 '

Estimated Depths of Anticipated Water, Oil, Gas or Minerals

- 2220', Water - 2580', Gas - 5690', Minor Gas and Oil Ojo Alamo Pictured Cliffs

Gallup

Dakota - 6780', Gas and Oil

The Proposed Casing Program

Hole Size	Interval	Section Length	Size (OD)	Weight, Grade and Joint	or Used
12½"	0'-250'	2 50'	8-5/8" 24	# K-55 8 round ST&C	New
7-7/8"	0'-5840'	5840'	4岁"10.50#	K-55 8 round ST&C	New
7-7/8"	5840'-7040'	1200'	4岁"11.60#	K-55 8 round ST&C	2 New

Cement Program

Surface - 8-5/8": 250 Sacks Class "B", 3% CaCl₂ & 1/4 lb. Flocele per sack.

Production -4-1/2 " First Stage - 500 gallons Mud I'lush followed by 370 sacks 50/50 Pozmix, (29 Gel) with 6-1/4 lbs.

Gilsonite and 6 lb. 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 nippling up and after any use under pressure. Pile 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.

Interval	Туре	Weight/Gal.	Viscosity (Sec.)	Water Loss Additives
0-250'		9.0	50	- Lime
250'-T.D.	10% Oil Base	8.8-9.2	42	4.0 Gel, Thinner,

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 Fo lowed

- (a) DST None
- (b) Logging ISF 250'-T.D. CNL-FDC 2200' and 5500' T.D.
- (c) Coring None

9. Any Anticipated Abnormal Pressures or Temperature:

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 ¿ases 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 December 1, 1980r as soon as possible after examination and approval of drilling requirements. Operations should be completed within Tendays.

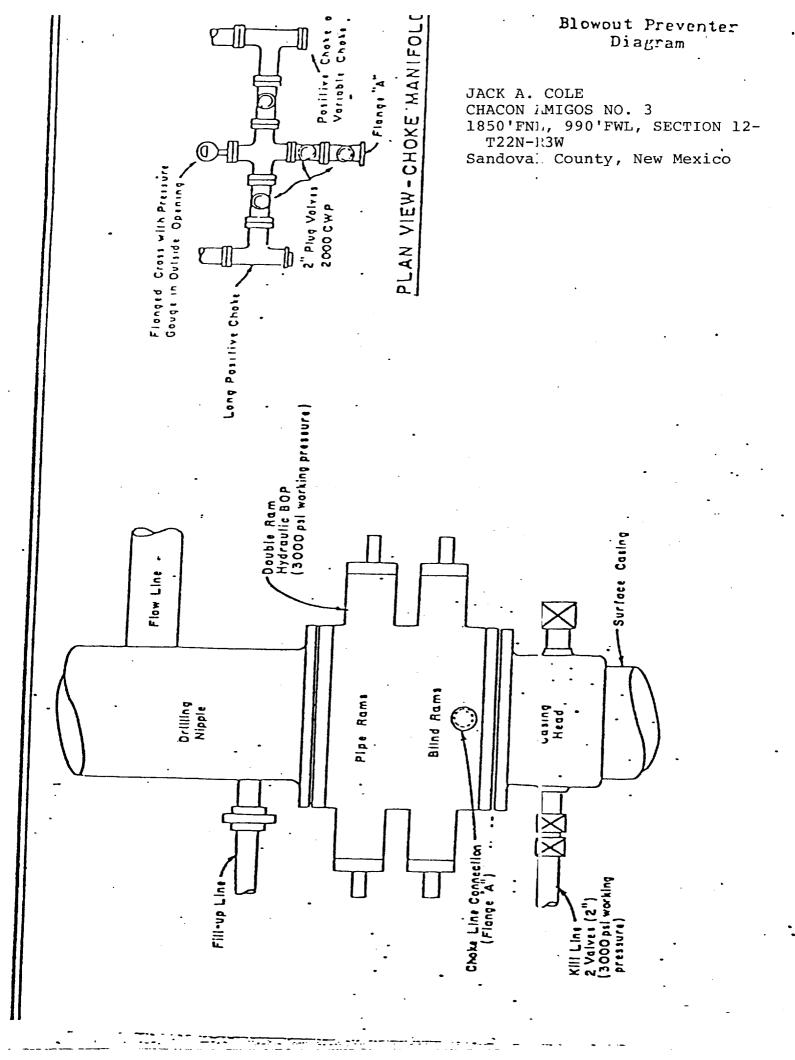


EXHIBIT "D"

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

Attached to Form 9-331C

JACK A. COLE
CHACON AMIGOS NO. 3
1850'FNL, 990'FWL, Section 12-T22N-R3W
Sandoval County, New Mexico

Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. Directions: South on Highway 44 from Blocmfield, New Mexico 65 mil Turn left on State Road 537 (Dulce Road) 3-1/4 miles. Turn right on dirt road (Jicarilla J-20) 5 miles. Turn right at road fork 2-1/2 miles, turn left (Jicarilla J-22) 2-1/2 miles. Turn right 2 miles to location.
- C. All roads to location are indicated by dotted strip tape on Exhibit "E". Existing roads will be improved.
- D. Exploratory wells, existing roads: N/A
- E. Development wells, existing roads: See Exhibit "E"
- 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, 1/2 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 rule radius.

- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There is one well presently being drilled.
- (6) There is one producing well 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/cperator:
 - (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 BIAstipulations.

5. Location and Type of Water Source

- A. The source of water will be NW/4, Section 15-T23N-R3W
- 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 vaste.
- (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 buil: 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 sig 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 luring 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 neeled. 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 Squirrel tail.
- (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 - 2 miles

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

- (4) Restrictions: Operator has all rights from surface through base of Dakota.
- (5) Drilling is planned for on or about December 1, 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

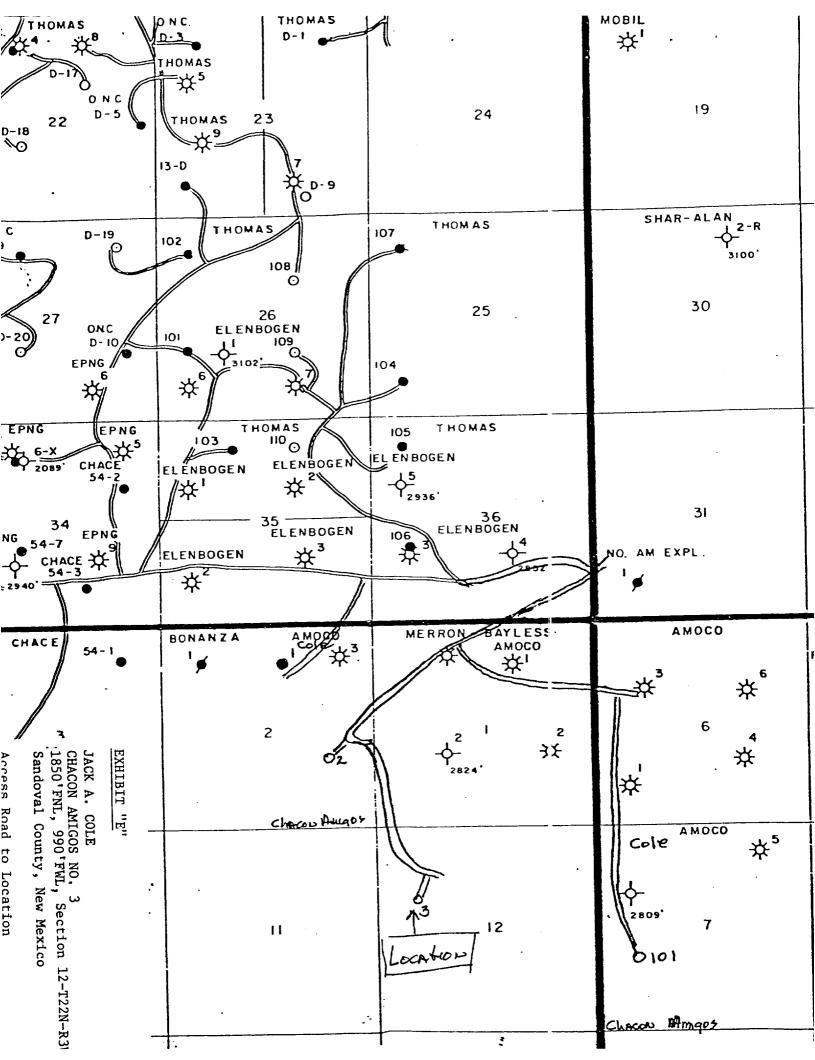
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated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

ORIGINAL SIGNED BY EWELL 11. WALSH

September 25, 1980

Date

Ewell N. Walsh, P.E.
President
Walsh Engineering & Production Corp.



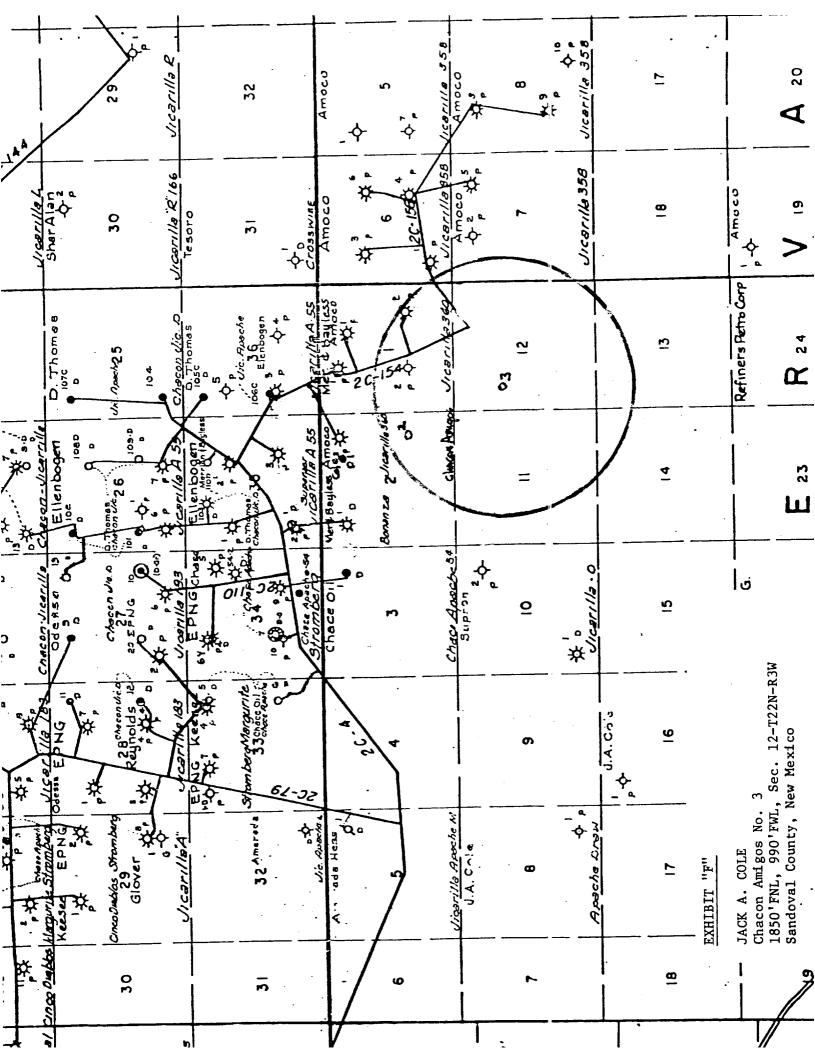


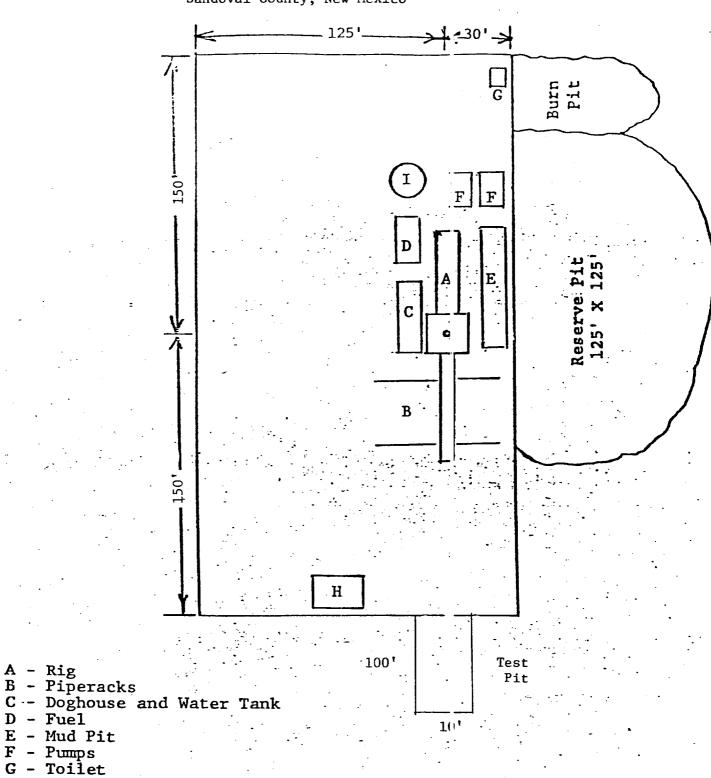
EXHIBIT "G"

Drill Rig Layout

JACK A. COLE

CHACON AMIGOS NO. 3

1850'FNL, 990'FWL, SECTION 12-T22N-R3W Sandoval County, New Mexico

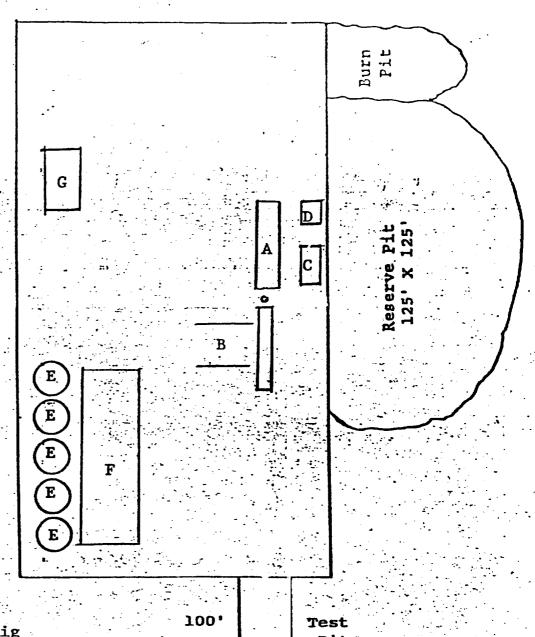


H - Trailer HouseI - Oil Storage

EXHIBIT "H"

Fracturing Program Layout

JACK A. COLE CHACON AMIGOS NO. 3 1850*FNL, 990'FWL, SECTION 12-T22N-R3W Sandoval County, New Mexico



A - Completion Rig

B - Pipe Racks C - Circulating Pit

. D - Pump

E - Frac Water Tanks
F - Area Frac Equipment
G - Trailer House