SUBMIT IN TRIPLICATE.

Form approved. Rudget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

Other instructions on	Dudget Bateau No. 42-R142
reverse side)	30-073-205/3
	5 I FACE DESIGNATION AND ORDERS NO.

	GEOLO	OGICAL SURVE	EY				Contract N	
APPLICATIO	N FOR PERMIT	TO DRILL, D	DEEP	EN, OR PL	UG B	ACK	i -	TEE OR TRIBE NAME
a. TYPE OF WORK	ILL 🗵	DEEPEN []	PLU	G BAC	к 🗆	Jicarilla 7. UNIT AGREEMEN	
b. TYPE OF WELL	AS [T]		s	INGLE -	MULTIPL	B. —	6 7124 67 17	
	VELL OTHER			ONE	ZONE		8. FARM OR LEASE	
JACK A. COL	Æ		1	The state of the s			Chacon Ami	lgos .
3. ADDRESS OF OPERATOR				The second second			6	
P. O. Box 1	.91 Farm	ington, N.	Μ.	87401	A 40 40 11 11		10. PIELD AND POOR	L, OR WILDCAT
	Report location clearly and	d in accordance wit	any S	State requirement	ts.*):	- 	Chacon Dak	ota Assoc.
At surface 80	0'FNL, 1850'	FWL			,	•	11. SEC., T., R., M.,	OR BLK.
At proposed prod. zo:					to be to be		Section 1	-T22N-R3W
	Same			·			N.M.P.N	
	AND DIRECTION FROM NEA					-	12. COUNTY OR PAR	
	rthwest of C	uba, New P			 ,		Sandoval	N.M.
LOCATION TO NEARES PROPERTY OR LEASE (Also to Dearest dri	T Line, FT.	1850'	16. N	2541	EASE		OF ACRES ASSIGNED 160)
8. DISTANCE FROM PROI TO NEAREST WELL, I OR APPLIED FOR, ON TE	RILLING, COMPLETED,	2600'	19. PF	7000 T		20. ROTA	RY OR CABLE TOOLS	ary
7111 GL, 71	ether DF, RT, GR, etc.) 24 DF, 7125	KB						WORK WILL START* TY 1, 1981
23.		PROPOSED CASIN	G ANI	CEMENTING	PROGRAI	М	-	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	от	SETTING DEF	РТН		QUANTITY OF CE	MENT
12-1/4"	8-5/8"	24.0		250 '			sacks - to	
7-7/8"	4-1/2"	10.50&11.6	0	7200 '		370 s	acks - 140 s	acks, 2 stage
						*		
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	oint Complia		am	"F	_		n Map of F	
	ut Preventer	_					Rig Layout	
"D" - Multi	Point Requi	rements of	. A.	P.D. "H	." – F	racti	iring Progi	ram Layout
The gas for	this well i	s committe	ed.		S. S			
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			**		` co.	9 %		
N ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If drill or deepen directions y.	proposal is to deep	en or p	lug back, give da	ata Op pr	sent proc	uctive whe and prop	osed new productive
reventer program, if an	у.	and, give perviser				304	and the vertical to	pens. Give blowout
4. FOR: JAC	CK A. COLEORIGI	NAL SIGNED BY	P	resident	. Wal	sh Ei		
SIGNED	EWE	I. N. WALSHEIT	& ∟E	Product	ion	erp-	DATE	11/11/80
(This space for Kerts	eral of State office use)	ET.						
	AMENDED					÷.		
PERMIT NO.	050 00 4000		_	APPROVAL DATE _				
APPROVED BY	JLU 0 9 1980	TIT	r. Ne				DATE	7
1 1 7 7	WEST SIMS						DATE	
1.7 bist	RICT ENGINEER	. *	- 8	رمي ا				- 10 m

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO JERGY AID MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107

		All distances must be f	rum the cuter hounder	ire of the Section.			
Operator			Lease			Well No.	
JACK A. COLE			CHACON AMIC	HACON AMIGOS 6			
Unit Letter	Section	Township	Range	County	_		
С	11	22N	3W	Sando	val		
Actual Footage Loca		41.	1970		Wo a t		
800	1001 110111 1110	rth line and	1850	feet from the	West	line	
Ground Level Elev:	Producing Form Dako		P∞1 Chacon Dako	موريد ta Be engiat	Ded	icated Acreage:	
7111				 			
 Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 							
dated by co	ommunitization, u	nitization, force-poo	ling. etc?			l owners been consoli-	
No allowab	le will be assign					nitization, unitization, proved by the Commis-	
<u>, mari, mar</u>			l	·	С	ERTIFICATION	
18501	8000		 		toined herein best of my kn FOR: JACI	ify that the information con- is true and complete to the lowledge and belief. X A. COLE	
	 - -1				Name EWEL	AL SIGNED BY L N. WALSH Walsh, P.E.	
	1		i		Position President		
	ı Se c				Company Walsh Engi	r. & Prod. Corp.	
	ì		1		Date 11,	/11/80	
		11			shown on this notes of acti under my sup	rtify that the well location is plat was plotted from field wal surveys made by me or pervision, and that the same correct to the best of my and belief.	
	 			. -	November Registered Pro	8 1980 [essional Engineer	
	Scal	le: 1"=1000"	1		Certificate No.	FIR. IR.	

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

JACK A. COLE

Chacon Amigos No. 6

800'FNL, 1850'FWL, SECtion 11-T22N-R3W

Sandoval County, New Mexico

1. The Geologic Surface Formation

Nacimento

2. Estimated Tops of Important Geologic Markers

Ojo Alamo	2180'	Point Lookout	4610'
Pictured Cliffs	2525 '	Gallup	5635'
Chacra	3285 '	Graneros	6605'
Cliff House	4025	Dakota	6725 '

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

Ojo Alamo - 2180', Water Pictured Cliffs - 2525', Gas

Gallup - 5635', Minor Gas and Oil

Dakota - 6725', Gas and Oil

4. The Proposed Casing Program

Hole Size	Interval	Section Length	Size (OD)	Weight, Grade and Joint	New or Used
12½"	0'-250'	250 '	8-5/8" 24	# K-55 8 round ST&C	New
7-7/8"	0'-5800'	5800 '	4岁"10.50#	K-55 8 round ST&C	New
7-7/8"	580'-7080'	1200'	4½"11.60#	K-55 8 round ST&C	New

Cement Program

Surface - 8-5/8": 250 Sacks Class "B", 38 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 nippling 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.

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

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' 2800' 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 $3100~\mathrm{psig}$.

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 February 1, 1981 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 10 days.

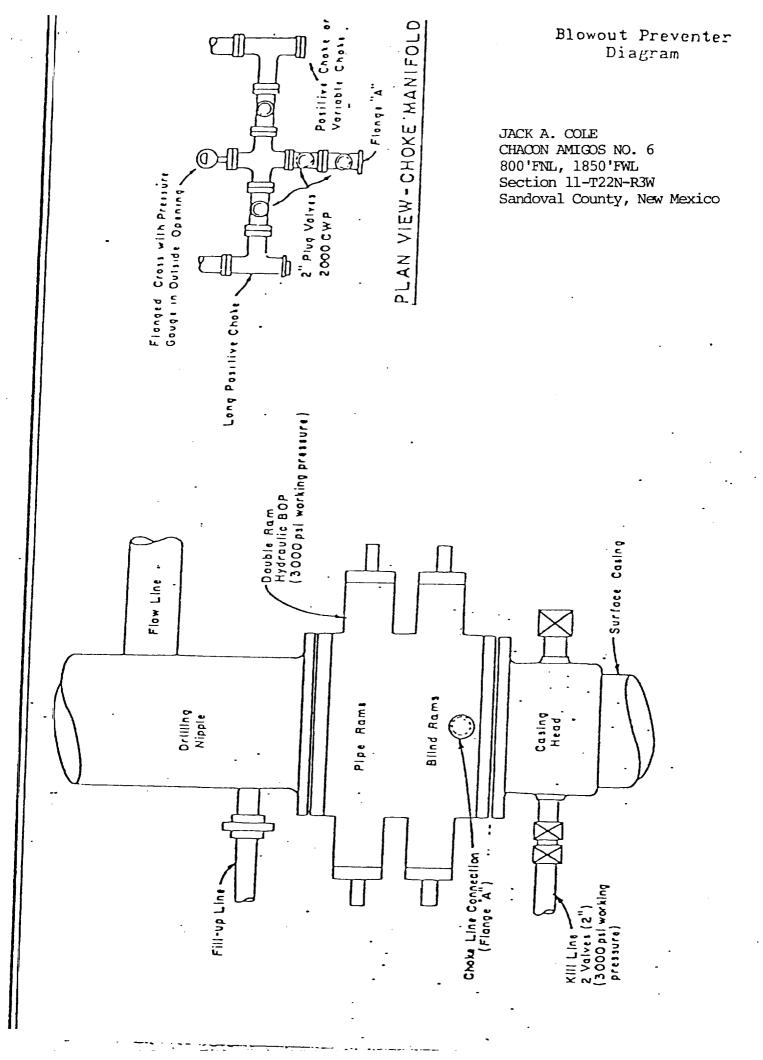


EXHIBIT "D"

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

Attached to Form 9-331C

JACK A. COLE CHACON AMIGOS NO. 6 800'FNL, 1850'FWL, SECTION 11-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) 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 1-1/2 miles 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"
- 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.

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 two 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: One
 - (2) Production Facilities: One
 - (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 water well in 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 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 BIA.
- (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, Loan Vegetation - Sage, Snake week, 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 must have all rights from surface to base of
- (5) Drilling is planned for on or about February 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 coformity with this plan and the terms and conditions under which it is approved.

November 11, 1980

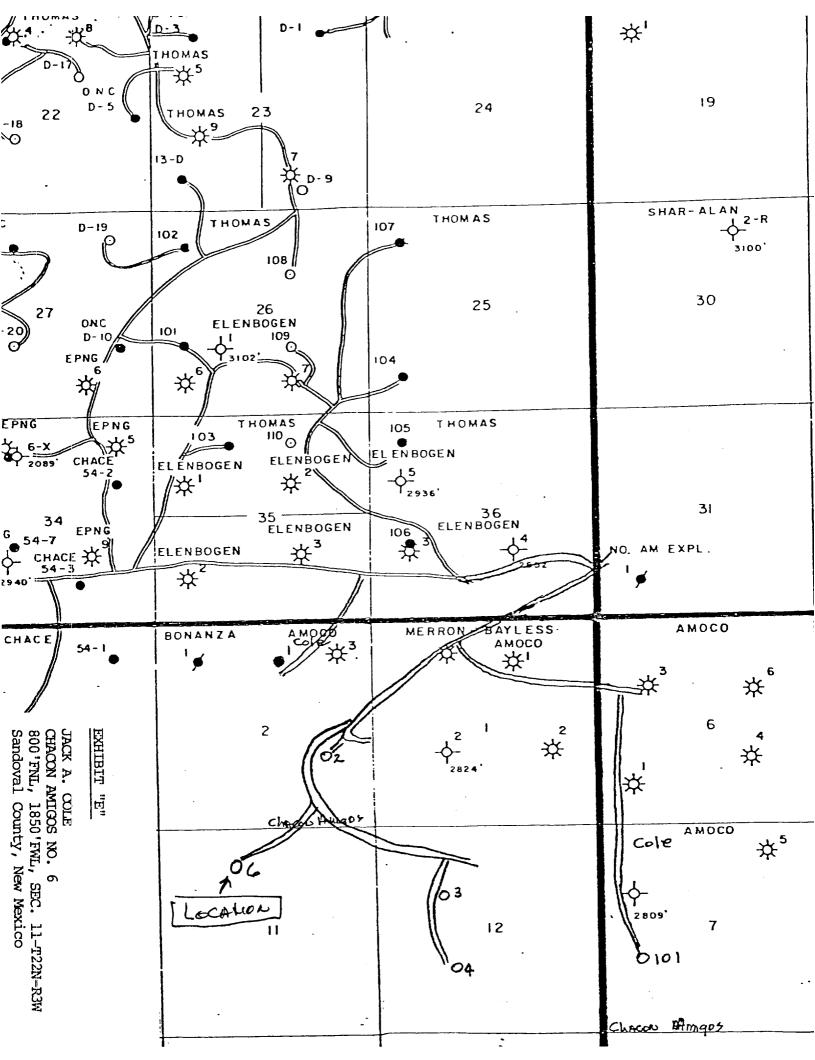
Date

ORIGINAL SIGNED BY EWELL N. WALSH

Ewell N. Walsh, P.E.

President

Walsh Engineering & Production Corp.



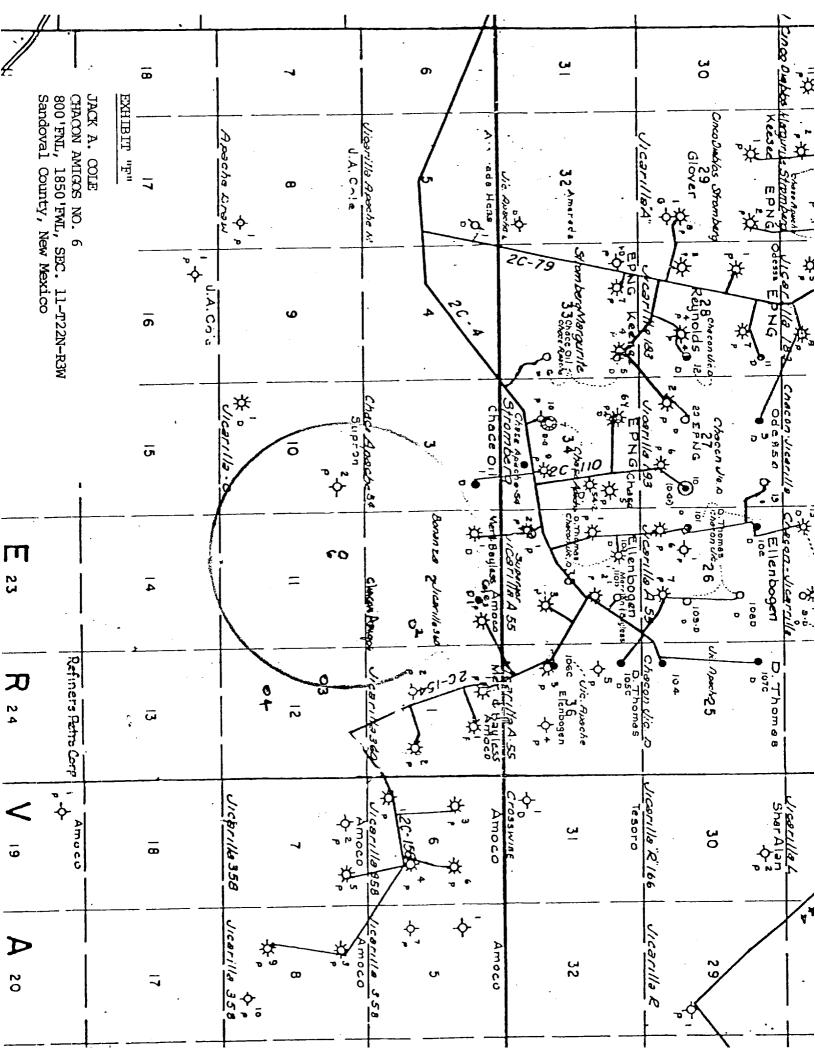
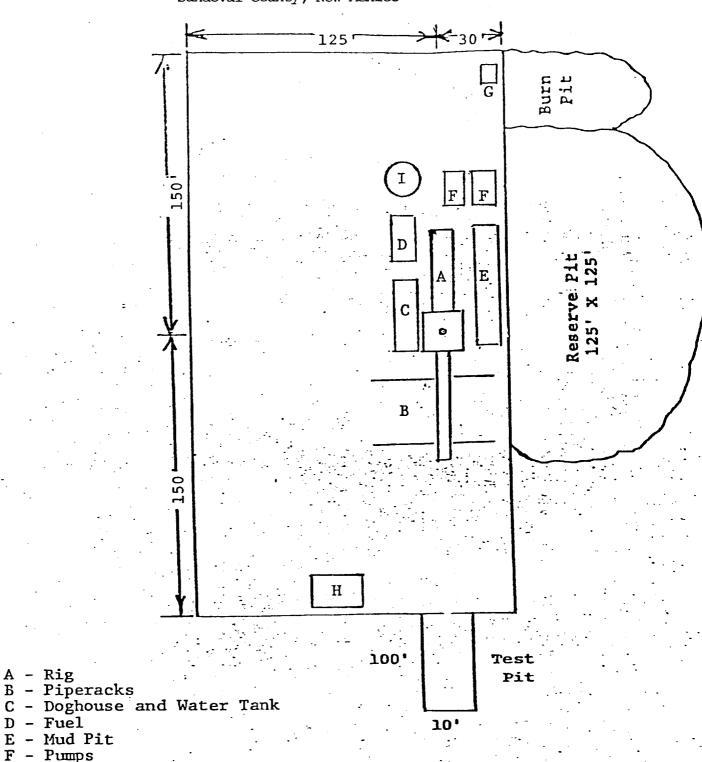


EXHIBIT "G"

Drill Rig Layout

JACK A. COLE
CHACON AMIGOS NO. 6
800'FNL, 1850'FWL, SECTION 11-T22N-R3W
Sandoval County, New Mexico



G - Toilet

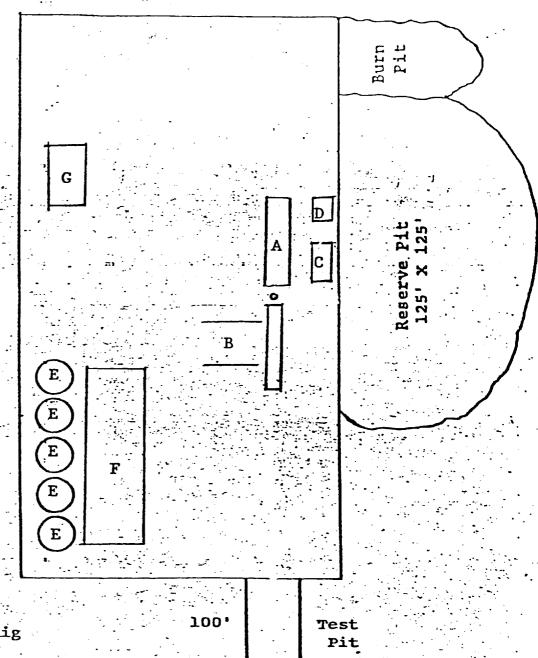
H - Trailer House I - Oil Storage

EXHIBIT "H"

Fracturing Program Layout

JACK A. COLE CHACON ÁMIGOS NO. 6

800 FNL, 1850 FWL, SECTION 11-T22N-R3W Sandoval County, New Mexico



10'

A - Completion Rig

B - Pipe RacksC - Circulating Pit

D - Pump

E - Frac Water Tanks

F - Area Frac Equipment G - Trailer House