#### SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

# UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMEN	T OF THE I		RIOR	reverse sic	de)	31-143-215-35		
		OGICAL SURV					J. LEASE DESIGNATION AND SERIAL NO.		
ΔΡΡΙΙΚΑΤΙΟΙ	N FOR PERMIT			N OP P	IIIG P	A CV	Contract No. 358 6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK	TOK TEMMI	TO DIVILL, I	DLLI	-JY, OK 1	LUU B	ACK_	Jicarilla Apache		
	ILL 🖾	DEEPEN		PLU	JG BAC	K 🗌	7. UNIT AGREEMENT NAME		
	AS			NGLE X	MULTIPE	.в. 🖳	8. FARM OR LEASE NAME		
2. NAME OF OPERATOR	ELL OTHER		20	NE ZI	ZONE		Chacon Amigos		
JACK A. CO	DLE		and the second	a will be a single company of			9. WELL NO.		
3. ADDRESS OF OPERATOR			1			**	102		
P.O. Box	191, Farmingt	on, N.M.	874	101	: - <del><u></u></del>		10. FIELD AND POOL, OR WILDCAT		
At surface	FNL, 790'FWL	d in accordance wit	th any S	tate requiremen	its.*)		Chacon Dakota Assoc		
At proposed prod. zon	•		-1				Section 7-T22N-R2W		
Same	ie.						N.M.P.M.		
	AND DIRECTION FROM NEA					<del></del> -	12. COUNTY OR PARISH 13. STATE		
	Northwest of	Cuba, New	и Мех	rico			Sandoval N.M.		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	r		16. NO	. OF ACRES IN	LEASE		F ACRES ASSIGNED HIS WELL		
(Also to nearest drlg	g. unit line, if any)	790'		2546			160		
18. DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED.	<sup>7</sup> 90 <b>'</b>		OPOSED DEPTH		20. ROTAL	RY OR CABLE TOOLS		
21. ELEVATIONS (Show who		90	/	095'			Rotary   22. APPROX. DATE WORK WILL START*		
7201'GL, 72	214'DF, 7215'	KB					January 15, 1981		
23.		PROPOSED CASIN	NG AND	CEMENTING	PROGRAI	<u></u> М	1 20, 2302		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	оот [	SETTING DI	ертн		QUANTITY OF CEMENT		
12-1/4"	8-5/8"	24.0		250	,	250	sacks - to surface		
7-7/8"	4-1/2"	10.50 & 1	1.60	7095	1	370			
							2 stages		
EXHIBITS  "A"-Location "B"-Ten Poin "C"-Blowout "D"-Multi-Po The gas for The NW/4 Sec	ag intervals is necessary.  I and Elevati It Compliance Preventer Di Preventer Di Preventer Di It Requirem  This well is  CTION 7 is de  PROPOSED PROGRAM: If I I drill or deepen directions	on Plat Program agram ents of A committe	P.D d. o th	. "	E"-Acc F"-Rac G"-Dr: H"-Fr:	cess dius dill Rectur	Road to Location Map of Field ig Layout Ing Program Layout  1987 pattive zone and proposed new productive M4 true vertical depths. Give blowout		
signed Ewe	CK CASICO PLE  LLI WALCH  LLI WALCH  A of State office use)		P &	residen Produc	t, Wa	sh E	ng heering 10-7-80		
APPROVED BY CONDITIONS	Mansley	TIT		APPROVAL DATE			DATE		
Diorga	OT ENGINEER								

# P. O. DOX 2088

Form C-107 kevised 10-1-1

		All distances must be	from the cuter liou	nderlie of the	Section.	
Operator			Lease			Well No.
JACK A. COLE		CHACON AMIGOS			102	
<del></del>	ction	Township	Range	Сош	nty	
E	7	22N	3M	į	Sandoval	
Actual Footage Location	n of Well;	<u> </u>				
1650	eet from the Non	rth line on	na 790	feet from	the West	line
Ground Level Elev:	Producing For	mation	Pool			Dedicated Acreage:
7201	Dakot	a	Chacon Dal	kota <u>Ass</u>	ociate	160 Acres
	one lease is	dedicated to the v				the plat below.  thereof (both as to working
3. If more than dated by com  Yes  If answer is this form if no No allowable	one lease of d munitization, u No If an "no;" list the eccessary.)	nswer is "yes," typ owners and tract de	e of consolidation escriptions which all interests have	n have actual	lly been consol	idated. (Use reverse side of ommunitization, unitization, en approved by the Commis-
sion.	s, or otherwise,					CERTIFICATION
790' @	Sec				Norme Every Proposition Walsh	oy certify that the information con- herein is true and complete to the fine knowledge and belief. NOVACKIONED COLE EWELL N. WALSH well N.Walsh, P.E. resident n Engineering & Prod. Corp. 10-7-80
		7		SAN ON ONE	bown notes under is itrui knewle  Date Sur Sept Register and L Fred	entber 15, 1980 ed/Professional Engineers and Surveyor.
	Scal	le: 1"=1000"	-	•	3950	
- 1						

#### EXHIBIT "B"

#### TEN-POINT COMPLIANCE PROGRAM

#### OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331c

JACK A. COLE
CHACON AMIGOS NO. 102
1650'FNL, 790'FWL, SECTION 7-T22N-R2W
Sandoval County, New Mexico

## 1. The Geologic Surface Formation

Nacimento

## 2. Estimated Tops of Important Geologic Markers

Ojo Alamo	2275'	Point Lookout	4720'
Pictured Cliffs	2635'	Gallup	5745'
Chacra	3395'	Graneros	6805'
Cliff House	4135'	Dakota	6835 <b>'</b>

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

Ojo Alamo 2275', Water
Pictured Cliffs 2635', Gas
Gallup 5745', Minor Gas & Oil
Dakota 6855', Gas & Oil

## 4. The Proposed Casing Program

Hole Size	Interval	Section Length		eight, Grade nd Joint	New or <u>Used</u>
12¼"	0'-250'	250'	4岁"10.50#	K-55 8 round ST&C	New
7-7/8 <b>"</b>	0'-5895'	5895'		K-55 8 round ST&C	New
7-7/8"	5895'-7095'	1200'		K-55 8 round ST&C	New

#### Cement Program

Surface - 8-5/8":

Sacks Class "B", 3% CaCl<sub>2</sub> & 1/4 lb. Flocele per sack.

Production - 4½" "First Stage - 500 gallons Mud Flush followed by 370 sacks 50/50 Pozmix, (2% Gel) with 6½ 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 6½ lbs.
Gilsonite followed by 50 sacks Class "B" Neat Cement. Stage Tool at 2900' Calculated top of ciment 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.

<u>Interval</u>	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

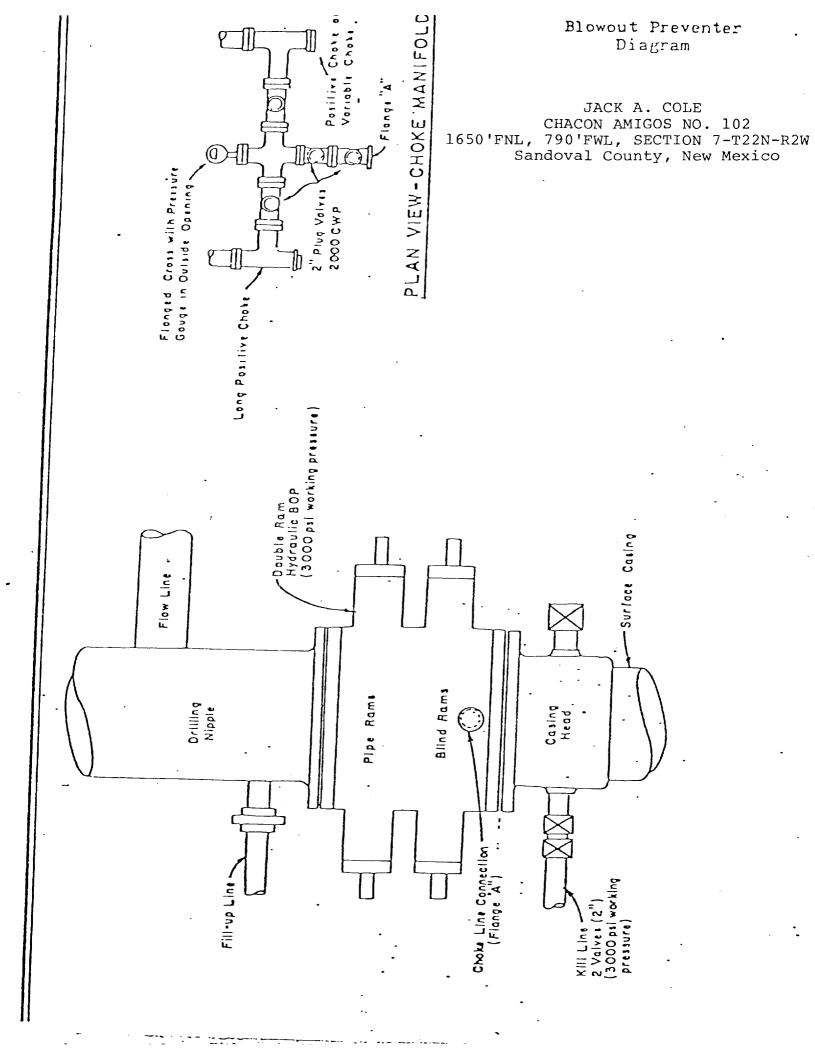
## 9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area not 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 January 15, 1981 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within Ten days.



#### EXHIBIT "D"

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

Attached to Form 9-331C

JACK A. COLE
CHACON AMIGOS NO. 102
1650,FNL, 790'FWL, SECTION 7-T22N-R2W
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) 3 miles. Turn right 1/4 miles. Turn left 1/2 mile. Turn right 1½ 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 "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, 1/8 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 5 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 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-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".

## 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, 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 - 4 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 Dakota.
- (5) Drilling is planned for on or about January 15, 198 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

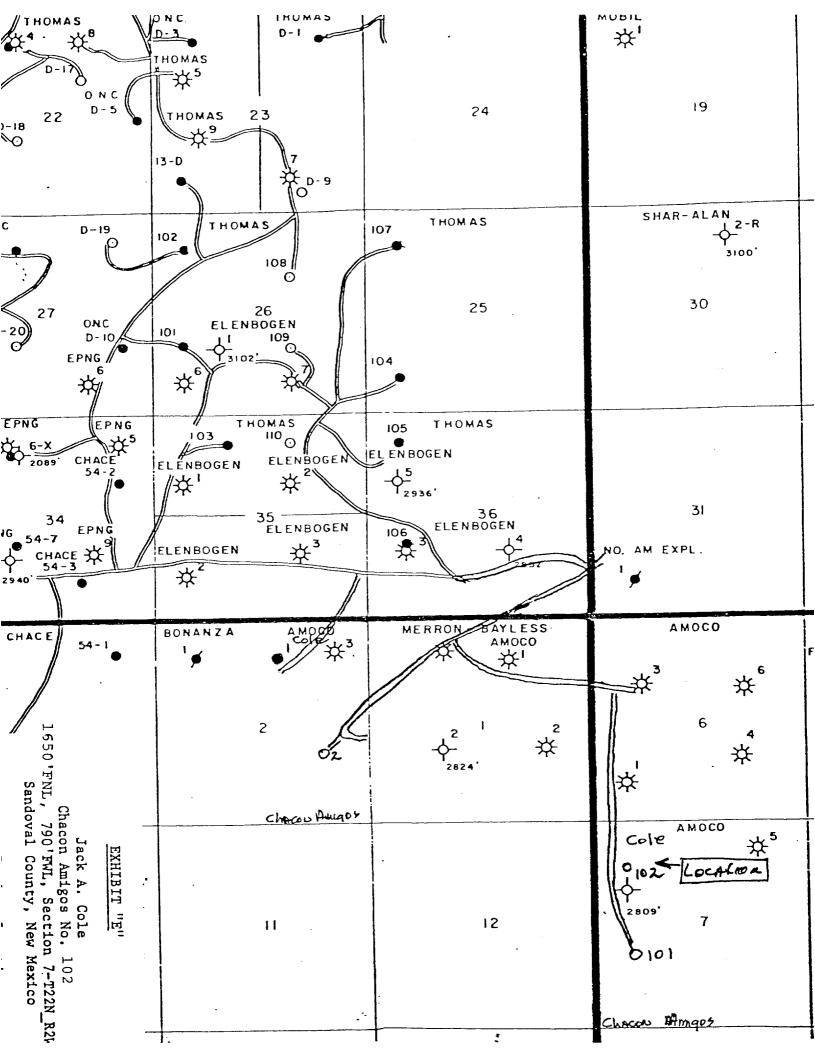
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated 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.

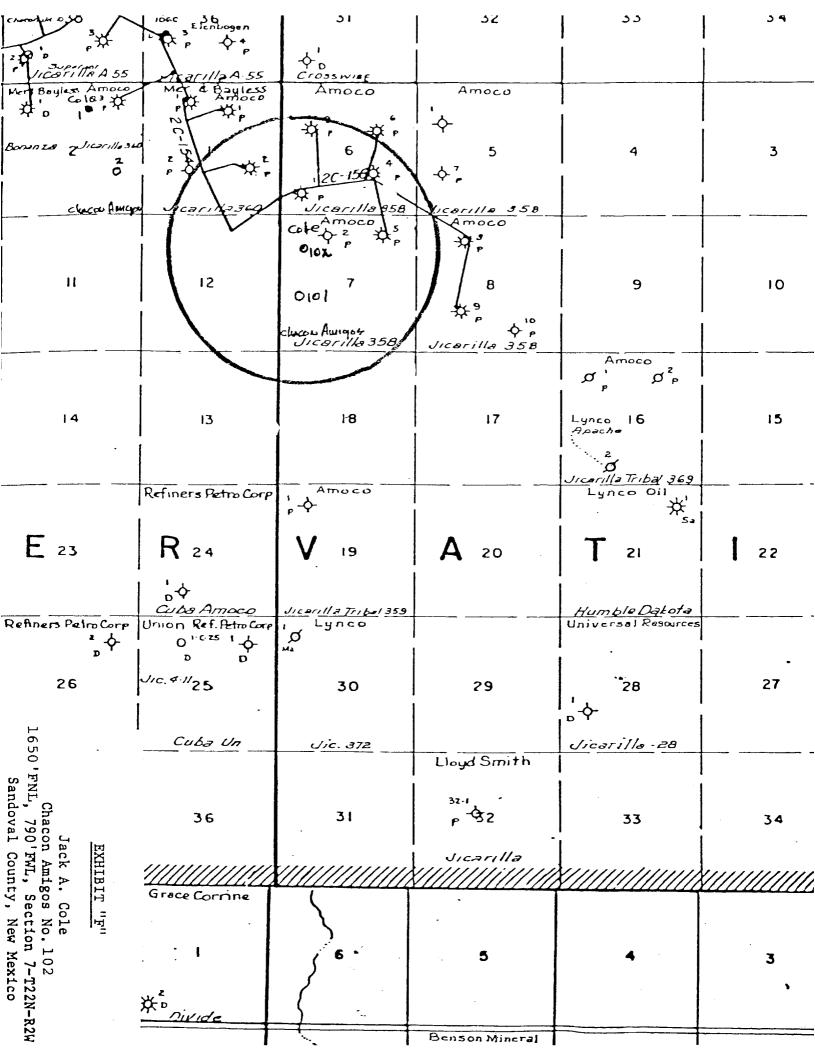
October 7, 1980

Date

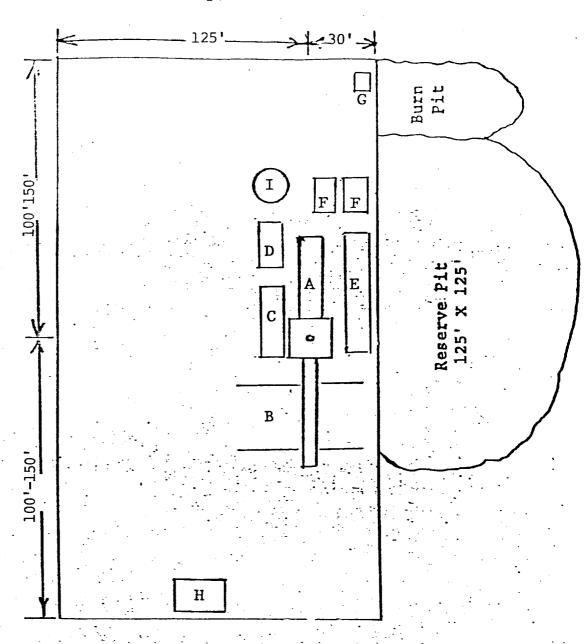
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Ewell N. Walsh, P.E. President Walsh Engineering & Production Corp.





# Drill Rig Layout JACK A. COLE CHACON AMIGOS NO. 102 1650'FNL, 790'FWL, SECTION 7-T22N-R2W Sandoval County, New Mexico



A - Rig
B - Piperacks
C - Doghouse and Water Tank

D - Fuel

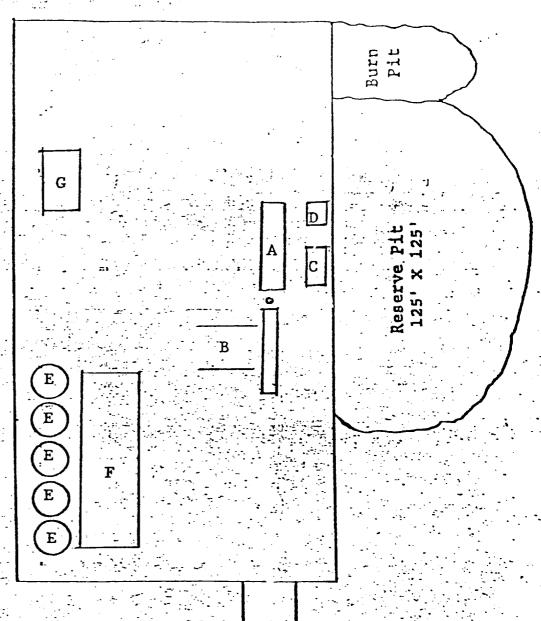
E - Mud Pit

F - Pumps G - Toilet

H - Trailer House I - Oil Storage

Walsh.

Fracturing Program
Layout
JACK A. COLE CHACON AMIGOS NO. 102 1650 ENL, 790 FWL, Section 7-T22N-R2W 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

100' Test

jo.