SUBMIT IN TRIPLICATE.

(Other instructions on reverse side) UNITED STATES
DEPARTMENT OF THE INTERIOR

Form approved. Budget Bureau No. 42-R1425.

	DEPARTMEN	T OF THE IN	TERIOR	everse side)	30-043-205	-50
	GEOLO	OGICAL SURVE	Y		O. DURDE DESIGNATION	AND SERIAL NO
	N FOR PERMIT	TO DRILL, D	EEPEN, OR PL	UG BACK	NM-21454 6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK DR b. TYPE OF WELL	HLL XX	DEEPEN	PLUC	BACK [7. UNIT AGREEMENT N.	AME
ou. 🗀 .c	VELL XX OTHER		SINGLE XX	MULTIPLE	8. FARM OR LEASE NAM	
2. NAME OF OPERATOR	THE LIFE OTHER		ZONE A	ZONE	Alamos Cany	
Jack A. Cole	e	<u>.</u>	State and St		9. WELL NO.	
3. ADDRESS OF OPERATOR		5 ATTOM:	* ************************************		13	
P. O. Box 91	19, Farmington,	New Mexico	37401	and the same of th	10. FIELD AND POOL, O	R WILDCAT
art burrace	Report location clearly and	d in accordance with	any State Leguirement	9	Wildcat//	des Chac
) 850'FSL, 18	350'FEL		r m	1	11. SEC., T., R., M., OE B AND SURVEY OR AR	MIK.
At proposed prod. zoi			FEB 17 1981	- 1	Sec. 4-T21N- N.M.P.M.	
14. DISTANCE IN MILES	and direction from NEA	BEST TOWN OR POST	GEOLOGICAL CO		12. COUNTY OR PARISH	13. STATE
		selor Tradifié	RIPHOISTON, N. M	Y	Sandoval	N.M.
LOCATION TO NEARES	USED*		6. NO. OF ACRES IN LA		OF ACRES ASSIGNED HIS WELL	<u> </u>
PROPERTY OR LEASE I (Also to nearest drl;	g. unit line, if any)	į.	1040	160		
 DISTANCE FROM PROF TO NEAREST WELL, D 	RILLING, COMPLETED.	i	9. PROPOSED DEPTH	0. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH		3000'	1600'	Rot	tary	
	euger Dr., KT, GR., etc.)				22. APPROX. DATE WOR	K WILL START
6844 'GL				· · · · · · · · · · · · · · · · · · ·	6/1/81	· · · · · · · · · · · · · · · · · · ·
		PROPOSED CASING	AND CEMENTING P	ROGRAM		
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7 7/8"	4 1/2"	ARF 10.50	1600!		sacks	
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"D" Multi-Po	int Requirement	s for APD		ll Rig Layo	out. Ogram Layout.	
			n ria	ccuring Pro	ogram Layout.	•
The gas from	this well is r	not committed		OFPE		
	ction 4 is dedi			WARIA	· ·	
			1 10	. ~~/ <i>///</i>	1	
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ABOVE SPACE DESCRIBE one. If proposal is to describe	PROPOSED PROGRAM: If pdrill or deepen directiona	proposal is to deepen lly, give pertinent da	or plug back give de ta on subsurface locat	n preschapprodu	octve zone and proposed and true vertical depths.	new productiv . Give blowor
FOR: JACK A	COLEMEN BY	P	resident, Wal	sh Engr.		
BIGNED - FWFL	N. WALSH	TITLE	& Production	Corn	2/16/	81
(This space for Feder	al or State office use)					
PERMIT NO.					. <u></u>	
		· · · · · · · · · · · · · · · · · · ·	APPROVAL DATE		PPROVED AMENDED	
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CONDITIONS OF APPROVA	L. IF ANY:	TITLE .		- A=	A I YOURS I VIOLE	

*See Instructions On Reverse Side

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION P. O. BOX 2018 SANTA FE, NEW MEXICO 87501

form C-107 keylsed 10-1-7

All distances must be from the cuter haundaries of the Section.

Operator			Lease				
			Locate				Well No.
JACK A. COLE			ALAMOS (CANYON			13
Unit Letter Section	Townsh	-	Range		County		<u> </u>
0 4	2	21N	61	WI	Sa	ndoval	<u> </u>
Actual Footage Location of Well:	0 11		3.040				
850 feet from the Ground Level Elev: Producing	South	line cond	1850	fee	t from the	East	line
40.1	.cra		Pool Undesigna	n+ n = 0 h -			Dedicated Acreager
							160 Acres
 Outline the acreage decomposition. If more than one lease interest and royalty). If more than one lease of dated by communitization. 	is dedica	ted to the wel	l, outline ea	ch and ide	entify the	ownership (thereof (both as to working
Yes No If answer is "no," list this form if necessary.) No allowable will be ass	f answer is he owners igned to the	and tract desc	f consolidat	ch have a	ctually be	ted (by con	lated. (Use reverse side of nmunitization, approved by the Commis-
			i				CERTIFICATION
 						best of m FOR: ORIGI	certify that the information con- erein is true and complete to the my knowledge and belief. INAL SIGNED BY ELL N. WALSH ell N. Walsh, P. E.
 	ec.			MAD		Position	esident ngineering & Prod. Cor
		4		DIST	COMM	shown on notes of under my is true o	certify that the well location this plat was plotted from field actual surveys made by me or supervision, and that the same and correct to the best of my e and belief.
! ! ! !		850. ®		850 '		Date Survey Deceming Regulation of the control of	
So	ale: l"=	1000'				Christianie V	TAR, JR.

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

JACK A. COLE
ALAMOS CANYON NO. 13
850'FSL, 1850'FEL, Sec. 4-T21N-R6W
Sandoval County, New Mexico

1. The Geologic Surface Formation Tertiary Wasatch - San Jose

Estimated Tops of Important Geologic Markers

Ojo Alamo 410'
Fruitland Shale 610'
Pictured Cliffs 930'
Lewis 1110'
Chacra 1360'
Mesa Verde 1710'

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

Ojo Alamo, Water Pictured Cliffs, Water Chacra, Gas Mesa Verde, Water

4. The Proposed Casing Program

Hole Size	<u>Interval</u>	Section Length	Size Weight, Grade (OD) and Joint	New or <u>Used</u>
12坛"	85' [′]	85'	8-5/8" 24# K-55 8 round ST&0	C New
6½"	85'-T.D.	1600'	4-1/2" 9.50 K-55 8 round ST&C	C New

Sacks Class "B", 3% CaCl₂ & 1/4 lb. Flocele per sack.

500 gallons mud flush followed by 150 sacks 65-35 Pozmix 1/4 lbs. Gilsonite per sack followed by 100 sacks 50-50 lbs. Gilsonite and 6 lbs. salt per sack.

mum Specifications for Pressure Control

hematic diagram of the blowout preventer equipment. ydraulically tested to the full working pressure after er any use under pressure. Pipe rams will be operationally ur period, as will blind rams each time pipe is pulled uch checks of BOP will be noted on daily drilling reports.

will include floor safety valve, and choke manifold g equivalent to the BOP stack.

teristics of the Proposed Circulating Muds

gel-chemical with adequate stocks of sorptive agents on ible spills of fuel and oil in the surface. Heavier ation to be added if pressure requires.

<u>pe</u>	Weight/Gal.	Viscosity (Sec.)		Additives
Mud	9.5	50	N.C.	Lime
base	9.2	35	6.0	CMC & Starch

ment to be Used

e used at the bit.

will be monitored visually.

ve will be on the floor to be stabbed into the drill y is not in the string.

ng and Coring Programs to be Followed

S and CNL-FDC

ormal Pressures or Temperatures

es or temperatures have been noted or reported in e area nor at the depths anticipated in this well. e expected is 300 psig.

or other hazardous fluids or gases have been found, o exist at these depths in the area.

g Date and Duration of the Operations

rting date is set for June 1, 1981 or as soon as ination and approval of drilling requirements. e completed within Ten days.

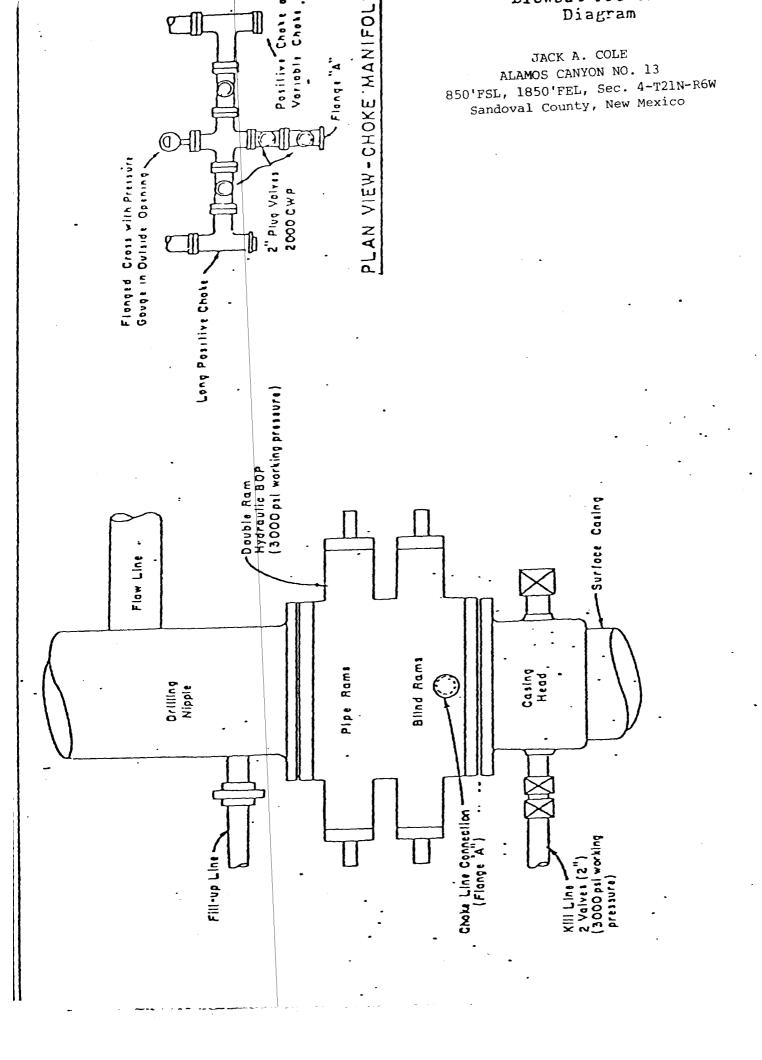


EXHIBIT "D"

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

Attached to Form 9-331C

JACK A. COLE
ALAMOS CANYON NO. 13
850'FSL, 1850'FEL, Sec. 4-T21N-R6W
Sandoval County, New Mexico

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. Directions:

South from Bloomfield, N.M. in Highway 44 to Counselors Trading Post. Turn right onto dirt road for approximately 9 1/2 miles. Turn left approximately 1 1/2 miles to location.

- C. All roads to location are indicated 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.

Planned Access Roads

Exhibit "E". Access road, 1/2 mile, will have maximum width of 20'. No turnouts, no culverts, no gates, cattleguards 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.

Walsh ENGINEERING & PRODUCTION CORP.

- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this one mile radius.
- (7) There is one 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 200 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 BLM stipulations.

F Water Source

er will be Chapman water hole at Escrito, N.M..

insported by truck over existing roadways.

to be drilled on this lease.

ıls

materials are needed for drilling and access illing location unless production is obtained. materials will be sufficient or will be provided actor as needed.

aterials will be taken off Federal or Indian Lands.

materials for construction of access roads are

roads presently exist as shown on EXHIBIT "E".

terials and Disposal

ll be buried in the reserve pit and covered.

ill be handled in the reserve pit.

ed during drilling test or while making probe collected in a test tank. If a test tank during drilling, fluids will be handled in spills of oil, gas, salt waters or other ll be cleaned up and removed.

es will be provided for human waste.

lammable waste and salts and other chemicals rilling or testing will be handled in trash aste will be disposed of in burn pit. Drill lling mud and tailings will be kept in reserve EXHIBIT "G". Reserve pit will be fenced on three rth side fenced upon removal of the rig.

es out, all materials will be cleaned up and no will be left on location. Any dangerous open d during drilling and kept closed until such s 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 BLM 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 Clay Loam
 Vegetation: Sage Brush, Blue grams, galletta
- (2) The primary surface use is for grazing. The surface is owned by the BLM.
- (3) The closest live water is the None

The closest occupied dwellings - 1 mile

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 Chacra.
- (5) Drilling is planned for on or about June 1, 1981 Operations should be completed within 5 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.

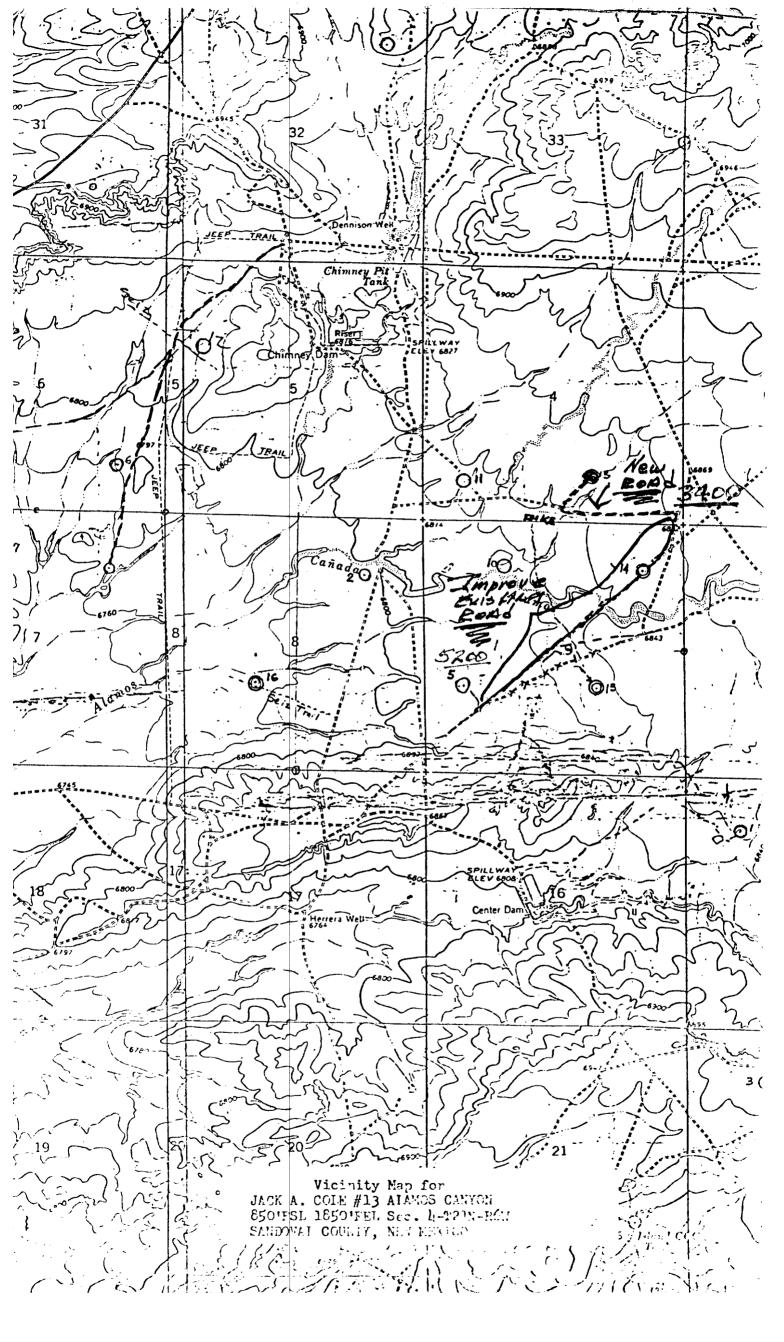
13. Certification

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.

2-16-81 Date ORIGINAL SIGNED BY EWELL N. WALSH

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

Walsh engineering & production corp.

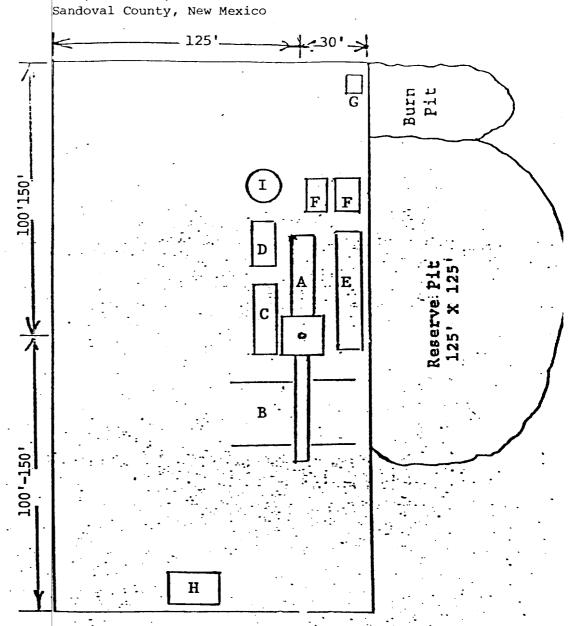


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			Ì	JACK A. C	NYON #. 13	
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EXHIBIT "G"

Drill Rig Layout

JACK A. COLE ALAMOS CANYON NO. 13 850'FSL, 1850'FEL, Sec. 4-T21N-R6W



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

D - Fuel

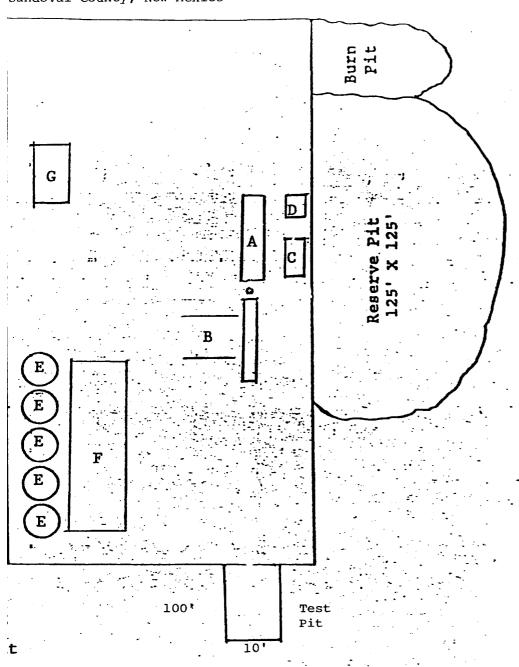
E - Mud Pit

F - Pumps
G - Toilet
H - Trailer House
I - Oil Storage

EXHIBIT "H"

Fracturing Program Layout

JACK A. COLE
ALAMOS CANYON NO. 13
'FSL, 1850'FEL, Sec. 4-T21N-R6W
Sandoval County, New Mexico



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