SUBMIT IN TRIPLICATES

Form approved. Budget Bureau No. 42-R1425.

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	(Other instructions on	Bu
	reverse side)	30-1

	DEPARTMEN'	T OF THE I	NTF	RIUB			20-	043-		189
								DESIGNATI	ON AND 8	ERIAL NO.
		GICAL SURV						21454	ë :	
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEP	EN, OR PLUC	G BA	<b>ACK</b>		DIAN, ALLOT		IBE NAME
la. TYPE OF WORK	-	The second secon					Jie	arill	<b>a</b>	
DR	ILL 🛛	DEEREN		PLUG I	BACK			AGREEMENT	NAME.	
b. TYPE OF WELL OIL [ G			4				E 3	Jue Lt	्या । स्वार	
WELL	VELL Y OTHER			NE ZO	iltiple Ne		8. FARM	OR LEASE	NAME	
2. NAME OF OPERATOR	\$ -			- 1		) j	Ala	mos C	anyon	ı
Jack A. Col	le					Ĵ	9. WELL	No. S	न हुं ३	
3. ADDRESS OF OPERATOR	1,					£.	∵ <b>'5</b> ≟	1 F.	2000 S	
P. O. Box ]	191, Farmingt	on, New M	lexic	0 87401		Ξ.	10. PIEL	D AND POOL	, OR WILI	DCAT
4. LOCATION OF WELL (R At surface	Report location clearly and	in accordance wi	th any S	tate requirements.*)		-	Wil	dcat (	The said	מאני
1850/	/S and $790/W$ ,	Sec. 9-1	21N-	R6W		<b>*</b>	11. SEC.	T., B., M., C	R BLK.	7100
At proposed prod. zor						, <u>†</u>	E ARD	SURVEY-OR	AREA	
	Same	_				<u></u>	Sec	. ∮9-јт:	2ĬŃ-R	.6W
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	.*		<del></del>	12. COUN	TY OR PARI	вн 13. в	TATE
15 miles SV	V Counselors,	N.M.				¥.	San	doval	N.	М.
15. DISTANCE FROM PROPORTION TO NEARES!	OSED*		16. NO	. OF ACRES IN LEASE	3		F ACRES A	BBIGNED	- 1	
PROPERTY OR LEASE I (Also to nearest drig	LIN <b>E, FT</b> .	790		1040		TO T.	160			
18. DISTANCE FROM PROP	POSED LOCATION*		19. PR	OPOSED DEPTH	— - <u>;</u>	20. ROTA	BY OR CAB		4 5 5	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	IS LEASE, FT.	4,000		1700		<u>د</u>	÷ → 0	, i	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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23.		POPOSED CASD	IG AND	CEMENTING PRO		7 23	E FUE	ust 1,	<u>, [198</u>	<u>U</u>
				CEMENTING PRO	GLAM	<u>ρ</u> Ξ	<u> </u>	817.0 16 A. 10.5	2 E 2	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER PO	DOT	SETTING DEPTH	_		3.00	TITY OF CEN	ent :	
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	DRILLING OPERATIONS	AUTHORIZED AR	E	/ 1/20			<b>51 ≈</b> Ē	53 8 5	돌물물로	

**UNITED STATES** 

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

OIL CON. COM. A 1980 OF THE PROPOSED PROGRAM: If proposal is to deepen or plug back, give day on present productive sone and proposed new productive sone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true, vertical depths. If give blowout preventer program is any.

reventer program.		김 씨 영화 방을 짓는 호속관등
BIGNED MOUNTAIL	Operator	ja j
(This space for Federal or State office use)	APPROVAL DATE	Council Counci
APPROVED BY	TITLE	DATE OF DATE
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\*See Instructions On Reverse Side

### SANTA FE, NEW MEXICO 87501

"CORRECTED"

kevised 10-1

All distances must be from the cuter houndaries of the Section. Well No. Operator ALAMOS CANYON JACK A. COLE Township Range Unit Letter Section County 21N 6W Sandoval L Actual Footoge Location of Wells 790 feet from the West South 1850 feet from the Producing Formation Dedicated Acreage: Ground Level Elev. Wildcat 160. . 6808 Асте 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 workin interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli dated by communitication, unitization, force-pooling. etc? Communitized If answer is "yes," type of consolidation \_ ∐ No Yes Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side o 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 Commis-CERTIFICATION I hereby certify that the Information comtained herein is true and complete to the best of my knowledge and bellef. Jack A. Cole Position Operator Company Sec. June 25, 1980 NM35099-A MM21454 I hereby certify that the well location Cole Dome Petro-Jack A. shown on this plat was plotted from field leum Co. AUG notes of octual surveys mode by me or 7901 OIL CON. COM. under my supervision, and that the same DIST. 3 Is true and correct to the best of my knowledge and belief. M31053 Dome et al Date Surveyed ached (See A±1 1000

### OIL CONSERVATION DIVISION

JACK A. COLE

### ALAMOS CANYON

#5

Unit Letter L, Section 9, Township 21N, Range 6W, Sandoval County, New Mexico 1850 Feet from the South Line and 790 Feet from the West Line 6808 Ground Level Elev., Chacra Formation, Wildcat Pool, 160 Acres.

### NM31053 Dome et al

Working Interest Owners: Dome Petroleum Company - 31.2376 Elf Aquitiane, Inc. - 8.0323 **-** 7.1399 Narmco, Inc. Trend Exploration - 10.7100 Jack A. Cole - 42.8802 100.0000

## JACK A. COLE PETROLEUM GEOLOGIST P.O. BOX 191 FARMINGTON NEW MEXICO 87401

FARMINGTON, NEW MEXICO 87401 (505) 325 - 1415

### APPENDUM TO INTENT TO DRILL APPLICATION

Jack A. Cole
Alamos Canyon No. 5
1850s and 790/W Sec. 9-T21N-R6W
Sandoval County, New Mexico

 A schematic diagram of the blowout prevention equipment is enclosed. 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 hole. Such checks of BOP equipment will be noted on daily drilling reports.

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

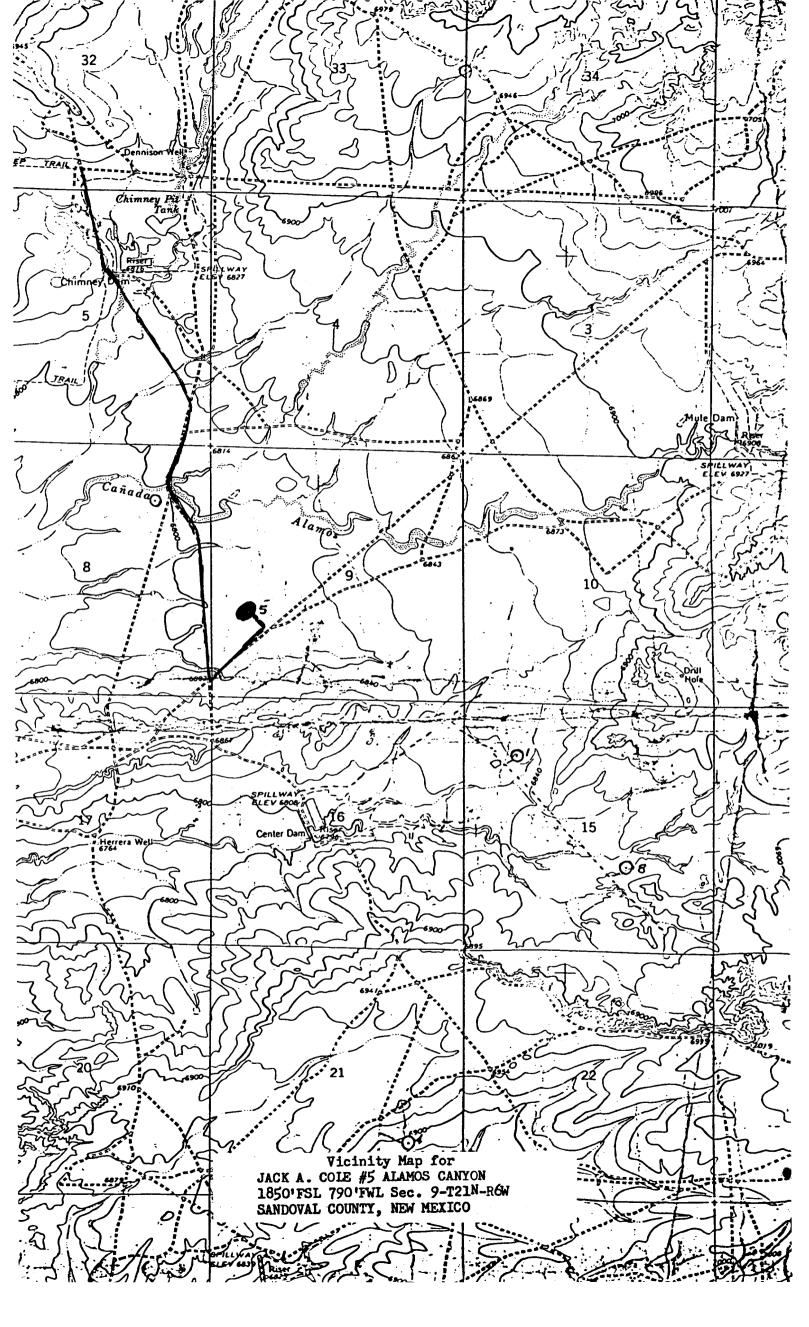
- 2. All casing and tubing strings will be new. The 8 5/8" surface casing will be 24.0 lb/ft, K-55 8 round ST&C. The 4 l/2" casing will be K-55 8 round ST&C.
- 3. The type of cement to be used is as follows: 8 5/8" surface casing: Circulate 100 sacks of Class B, 2% CaCl<sub>2</sub>.

4 1/2" production casing: 150 sacks 50-50 pozmix, 2% gel to raise to surface.

- 4. The surface formation is Tertiary Wasatch-San Jose.
- 5. The estimated tops of geologic markers:

Ojo Alamo Sand	410
Fruitland Shale	610
Pictured Cliffs Sand	930
Lewis Shale	1110
Chacra Sand	1360
Mesaverde Sand	1710

- 7. Anticipated gas bearing zone: Chacra Sand
- 8. To protect the Ojo Alamo aquifer it is proposed to cement the production string from TD to the surface.



# JACK A. COLE PETROLEUM GEOLOGIST P.O. BOX 191 FARMINGTON, NEW MEXICO 87401 (505) 325 - 1415

June 25, 1980

United States Department of Interior Geological Survey P. O. Box 959 Farmington, New Mexico 87401

Reference: 13 Point Environmental Program - Jack A. Cole -

Alamos Canyon #5, 1850/S and 790/W Sec. 9-T21N-R6W

Sandoval County, New Mexico

#### Gentlemen:

In compliance with governmental requirements, I hereby respectfully submit the following environmental data to accompany the application for permit to drill the above referenced test well.

- 1. Access to location from N.M. Highway 44, turn right at Counselors New Mexico, on main road. Travel south approximately 12 miles and turn left approximately 3 miles, all on existing roads.
- 2. Existing road to be utilized to within ½ mile of drillsite from which point a minimum width graded access road to be prepared to drillsite.
- Well location as shown on attached survey plat and map.
- 4. Lateral road to well location as described in Item 2.
- 5. If gas production established, adequate production facilities to be installed immediately west of wellsite to accommodate a pipeline connection.
- 6. Water will be trucked to location from nearest source, Chapman water hole at Lybrook.
- 7. A reserve pit will be utilized for waste disposal. Trash will be buried 4 feet below surface.
- 8. No camps are planned.

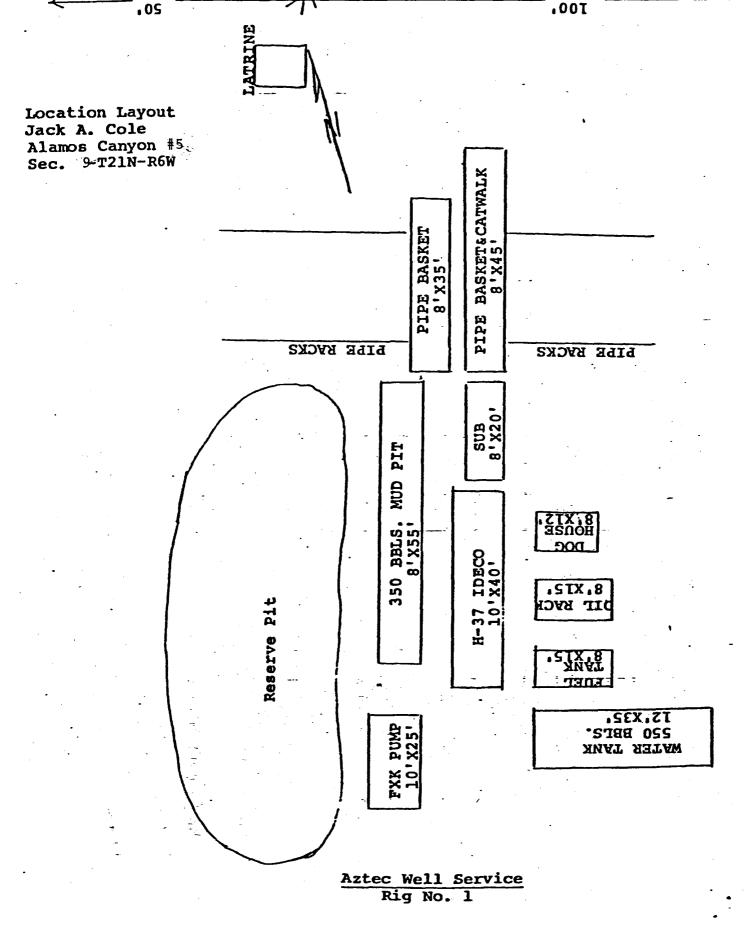
United States Department of the Interior June 25, 1980 Page 2

- 9. No airstrips are planned.
- 10. Location layout indicated on attached plat as furnished by Aztec Drilling Company.
- 11. Following drilling, mud pits to be fenced and allowed to dry, then filled with surface soil previously evacuated. Location, except for wellhead site and production equipment, to be restored to original condition as much as practicable.
- 12. The location is located in an area of relatively flat topography. No major rivers are in the immediate vicinity.
- 13. Three sides of reserve pit shall be fenced during drilling operations and the fourth side to be fenced after rig moves.

Very truly yours,

Jack A. Cole

JAC:njs



JACK A. COLE
PETROLEUM GEOLOGIST
P.O. BOX 191

FARMINGTON, NEW MEXICO 87401 (505) 325 - 1415

June 25, 1980

United States Geological Survey P. O. Box 959 Farmington, New Mexico 87401

Certification: Operator's Representative-Jack A. Cole,

P. O. Box 191, Farmington, New Mexico (505) 325-1415 - Alamos Canyon #5

### Gentlemen:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site and access routes; that I am familiar with the conditions that 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 conditions under which it is approved.

Very truly yours,

Jack A. Cole

Operator's Representative

### JACK A. COLE

### PETROLEUM GEOLOGIST P.O. BOX 191 **FARMINGTON, NEW MEXICO 87401**

(505) 325 - 1415

JACK A. COLE ALAMOS CANYON #5 1850/S and 790/W Sec. 9-T21N-R6W Sandoval County, New Mexico

### Seven Point Well Control Program

- Surface Casing. 1. See Application for Permit to Drill.
- Spools and Flanges. 2.
  - Surface Casing 10", Series 600, 1500 psi W.P. Production, 10", Series 600, 1500 psi W.P.

  - Tubing Head Series 600, 1500 psi W.P.
- Intermediate Casing. 3. None
- 4. Blowout Preventers. Production Hole - 10", 300 psi Fill, kill and choke manifold - 5000 psi W.P.
- Additional Equipment (If necessary) 5.
  - A. Kelly Cock

D. Pit Level Indicator

B. Bit Float

E. Sub with Valve for

C. Degasser

- drill pipe.
- Anticipated Bottom Hole Pressure. 1000 psi. Current mud program is for 9.2 lb./gal. mud with hydrostatic head of 1500 psi at 3000 feet. Mud weight will be increased if necessary for higher pressures.
- 7. Drilling fluid. Low solids. Low water loss.