(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

### UNITED STATES DEPARTMENT OF THE INTERIOR

	DEPARTMEN	30-043-20488				
	GEOLO	NM 33383				
APPLICATIO	N FOR PERMIT	6. IF INDIAN, ALLOTTED OR TRIBE NAME				
la. TYPE OF WORK		- Jicarilla				
	RILL 🔀	DEEPEN		PLUG B.	ACK 🗌	7. UNIT AGREEMENT NAME
	)A8 [_]		я	INGLE X MUL	TIPLE (-)	or in the care of
2. NAME OF OPERATOR	WELL X OTHER			ONE ZONE		8. PARM OR LEASE NAME
Jack A. Co	വില	•			ar ar	Alamos Canyon
3. ADDRESS OF OPERATOR	<u> </u>	9. WELL NO. 3 05 5				
P. O. Box	191, Farming	10, FIELD AND POOL, OR WILDCAT				
4. LOCATION OF WELL (E	deport location clearly and	in accordance wi	th any	State requirements.*)		Wildcat ( Ange)
	/N and 1830/W	11. REC. T. R. M. OR BUR				
At proposed prod. zor					91,	AND SURVEY OR AREA
14 - 2000 - 2	Same				ğ	Sec. 7-T21N-R6W
	AND DIRECTION FROM NEA		T OFFIC	E+		12. COUNTY OR PARISH 13. STATE
15. DISTANCE PROM PROP	SW Counselors	, N.M.	1 10			Sandoval N.M.
LOCATION TO NEAREST	T Line wr	070	l to			OF ACRES ASSIGNED.
(Also to nearest dri	g. unit line, if any)	870. ————		600		· 100 15 94至言
TO NEAREST WELL, D OR APPLIED FOR, ON TH	BILLING, COMPLETED.	2200'	19. PI	1700	20. BOT	TABY OR CABLE TOOLS
21. BLEVATIONS (Show wh				1700	_ <u>                                     </u>	Rotary & Eg.
6777 GR.	•				- 28 G	August 1, 1980
23.		PROPOSED CASIN	IG ANI	CEMENTING PROG	RAM 3	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER P		SETTING DEPTH	1 0 5	
12 1/4	8 5/8	24.0		120		E QUANTITY OF CEMENT S
6 3/4	4 1/2	10.5		1700		rculate % 35 25 2 Osacks 45 65 2
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		_ [[£9]] <b>(</b> @				
It is prop	osed to dril	l to TD o	f 17	'00'. Run F	S-Ind	and a Camma = Dass Manaster
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obbosite C	nacra sand a	na sana-w	ater	'irac treat	down	casing grant tubing
and combite	te as Chacra	natural	gas	well.	arbe	Here in the second of the seco
Gas is not	dedicated to	n ninelin			7	drift of the control
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See Attach	ed.		_	EIV	10	
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	ATIONS AUTHORIZED AR	£ \ `	11	OF GEOLOGICAL SURVEY	A A	ord and the state of the state
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		\	N. 2.	GEOLOGICAL SURVE	Z E	PIST 35 3/ SUPE
		/			· §	or and the control of
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If p	roposal is to deep	n or pl	ug back, give data on	present prod	0.25 8 2 2 3 4 4
preventer program, if any	or ecchen directional	ly, give pertinent	data or	subsurface locations a	and measure	d and true vertical depths. Give blowout
24.	1111	V		-		
SIGNED	MAUX	ole_TITI	_ 0	perator	4Ubj	ະ ຂໍ້ສູ້ສູ້ June 25, 1980
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6					<b></b>	
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	, <del></del> ,	*See Instruc	tions (	On Reverse Side		

### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 Revised 10-1-78

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

Operator		<del></del>	Lease							
JACK A. COLE			ALAMOS CANY	ON	Well No.					
		Township	Range	County						
C	7	21N	6W	Sandoval						
Actual Footage Loc	ation of Well:	•			-					
870		North line and	1830	feet from the West	line					
Ground Level Elev.	Producing For Cha		P∞l Wildcat		Dedicated Acreage: 160-/59.47 Leres					
			<del> </del>	cil or hashure marks						
1. 04	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 working interest and royalty).										
3. If more tha	n one lease of di	ifferent ownership is	dedicated to the w	ell have the interes	sts of all owners been consoli-					
dated by co	ommunitization, u	nitization, force-pool	ing. etc?	ori, navo ale interes	or all owners been consoli-					
Yes	□ No If an		£ . 101	•						
	[] 140 11 8H	swer is "yes;" type o	or consolidation							
If answer i	s "no," list the o	wners and tract desc	riptions which hav	e actually been con	solidated. (Use reverse side of					
this form if	necessary.)	<del></del>								
forced-nool	ing or otherwise)	ed to the well until al	l interests have be	en consolidated (by	communitization, unitization,					
sion.	ing, or otherwise,	or until a non-standar	a unit, eliminating	such interests, has	been approved by the Commis-					
			1		CERTIFICATION					
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	870		1	I 1	ereby certify that the information con- ned herein is true and complete to the					
1830'			i		t of my knowledge and belief.					
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	_ +			Jac	k A. Cole					
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	Sec	3.	 	June	≥ 25, 1980 ··					
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	1	j	A 2 3 7 9 47 2	N h	ereby certify that the well location wn on this plat was plotted from field					
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	1		1		1823					
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220 000 -00	1970 1990 1990			Certifi	OT NO. PERSON					

#### JACK A. COLE

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

#### APPENDUM TO INTENT TO DRILL APPLICATION

Jack A. Cole
Alamos Canyon No. 7
870/N and 1830/W Sec. 7-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.

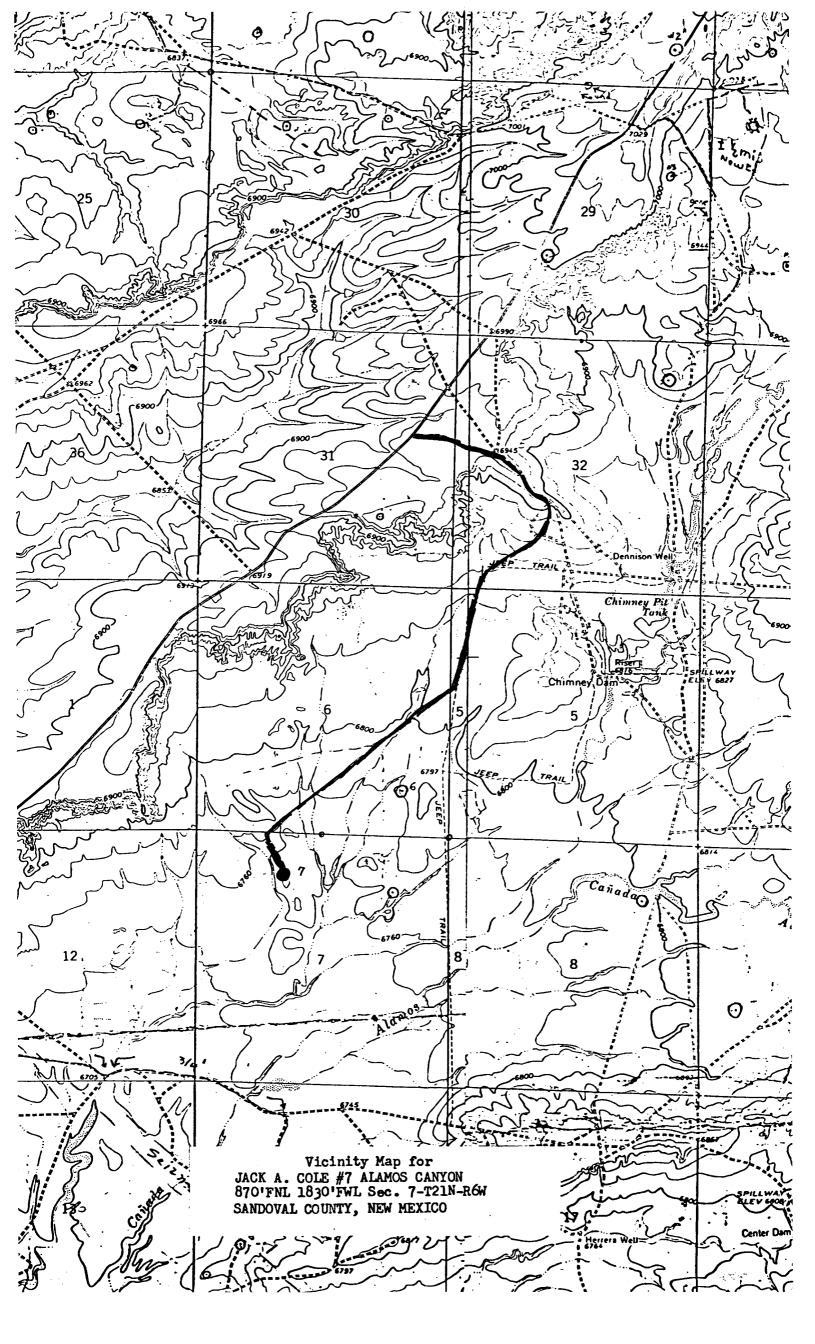
- 2. All casing and tubing strings will be new. The 8 5/8" surface casing will be 24.0 lb/ft, K-55 8 round ST&C. The 4 1/2" casing will be K-55 8 round ST&C.
- 3. The type of cement to be used is as follows: 8 5/8" surface casing: Circulate 100 sacks of Class B, 2% CaCl<sub>2</sub>.

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

- 6. Anticipated water zones:
  Ojo Alamo Sand
  Pictured Cliffs Sand
  Mesaverde Sand
- 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 #7, 870/N and 1830/W Sec. 7-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.

- 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 a mile of drillsite from which point a minimum width graded access road to be prepared to drillsite.
- 3. 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,

Sack 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 #7

#### 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 #7 870/N and 1830/W Sec. 7-T21N-R6W Sandoval County, New Mexico

#### Seven Point Well Control Program

- 1. Surface Casing. See Application for Permit to Drill.
- Spools and Flanges.
  - 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.
- 3. Intermediate Casing. None
- Blowout Preventers. Production Hole - 10", 300 psi Fill, kill and choke manifold - 5000 psi W.P.
- 5. Additional Equipment (If necessary)
  - Kelly Cock

D. Pit Level Indicator

B. Bit Float 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.