

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Jack A. Cole

3. ADDRESS OF OPERATOR

P. O. Box 191, Farmington, New Mexico 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

790/S and 990/E Sec. 8-T22N-R3W

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

18 miles NW Cuba, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

2250 +

19. PROPOSED DEPTH

2700'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7008 Gr. 7019 DF 7020 KB

22. APPROX. DATE WORK WILL START*

December 1, 1978

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24.0	130'	Circulate
7 7/8	4 1/2"	10.5	2700	150 Sacks

Well will be mud drilled by rotary tools after setting and cementing 8 5/8" surface casing. Run electric logs at TD and set 4 1/2" casing if warranted, cementing same with 150 sacks. Sand H2O frac treat through casing perforations opposite PC sand. Run 1" tubing for production string to produce as PC natural gas well. Reserve pit will be fenced on three sides before spudding and fourth side when drilling operations cease.

gas is dedicated

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Jack A. Cole

TITLE Operator

DATE November 1, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE NOV 2 1978

U. S. GEOLOGICAL SURVEY
F. T. M., B. L.

*See Instructions On Reverse Side

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

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

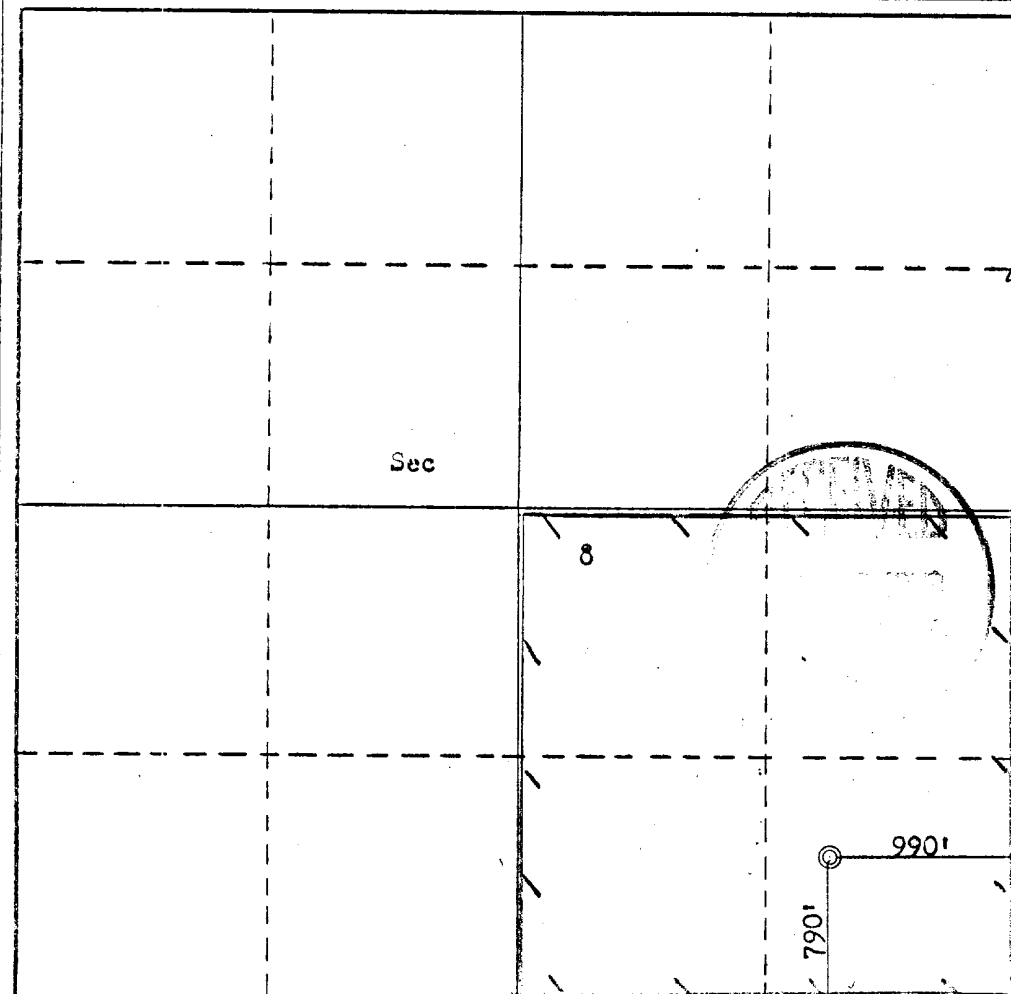
Operator JACK A. COLE			Lease APACHE DRAW		Well No. 1
Unit Letter P	Section 8	Township 22N	Range 3W	County Sandoval	
Actual Footage Location of Well: 790 feet from the South line and 990 feet from the East line					
Ground Level Elev. 7008	Producing Formation Pictured Cliffs		Pool Wildcat		Dedicated Acreage: 160 Acres

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 than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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 Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name _____
Operator
Position _____

Company _____
November 1, 1978
Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **October 28, 1978**
 Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr, Jr.
 Certificate No. **3950**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

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

November 1, 1978

United States Department of Interior
Geological Survey-Durango District
P. O. Box 1809
Durango, Colorado 81301

Attention: Mr. Jerry Long
District Engineer

Reference: 12 Point Environmental Program - Jack A. Cole -
Apache Draw No. 1, 790/S & 990/E Sec. 8-T22N-R3W,
Sandoval County, New Mexico

Gentlemen:

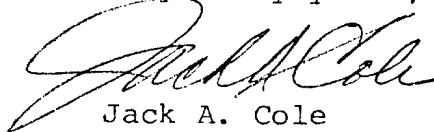
In compliance with governmental requirements, I hereby respectfully submit the following environmental data to accompany the application for permit to drill the above referenced test well.

1. Access to location from N.M. Highway 44 at intersection of N.M. 44 and N.M. 537, approximately 70 miles southwest of Bloomfield, New Mexico, then proceed north on N.M. 537 approximately 4 miles, turn right about 5 miles, then right on new road approximately $\frac{1}{2}$ mile to location.
2. Existing road to be utilized to within $\frac{1}{2}$ 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, a water hole located in SE $\frac{1}{4}$, Sec. 9, T-24N-R4W, via existing roads.

United States Department of Interior
November 1, 1978
Page 2

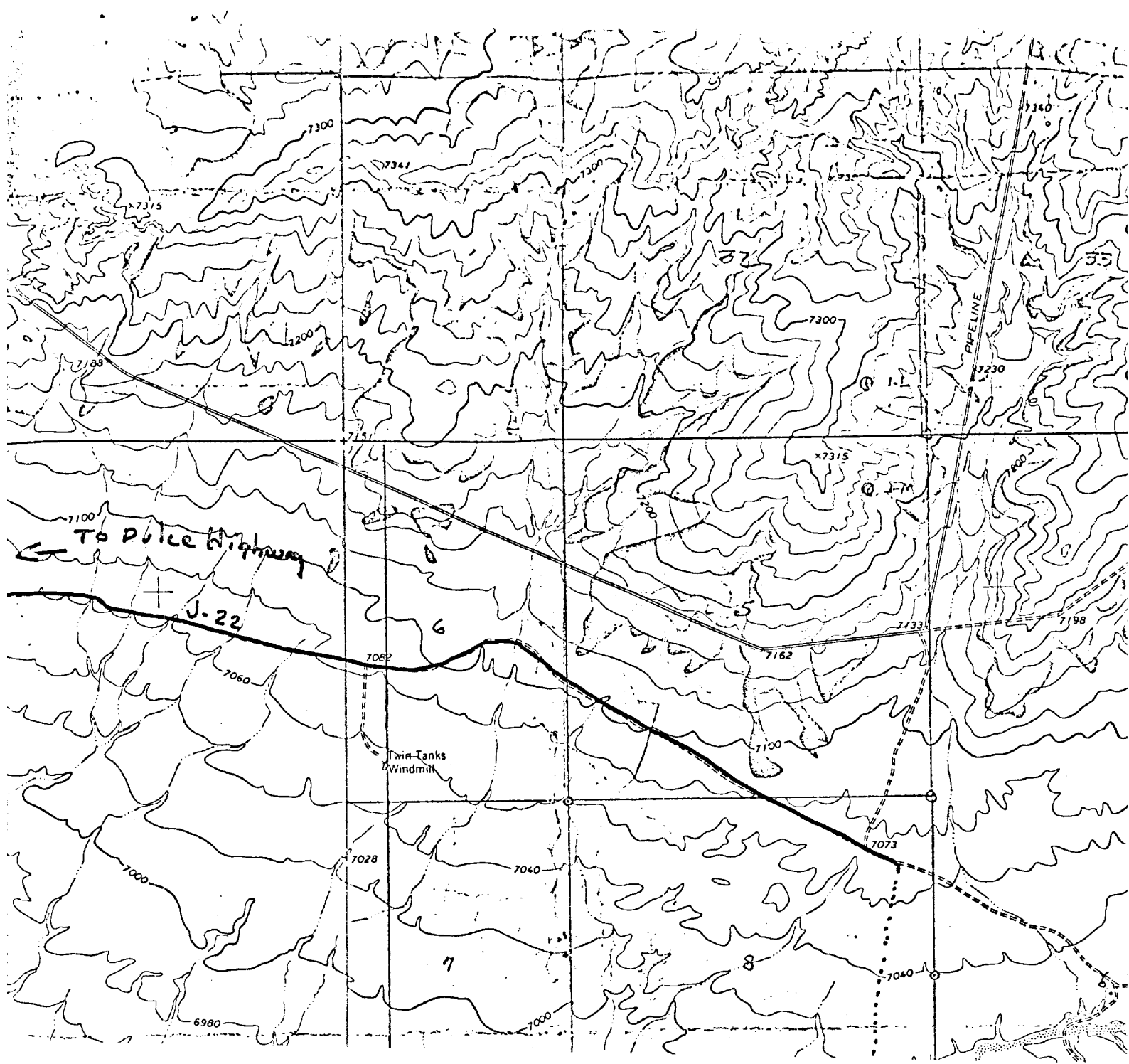
7. A reserve pit will be utilized for waste disposal. Trash will be buried 4 feet below surface.
8. No camps are planned.
9. No airstrips are planned.
10. Location layout indicated on attached plat as furnished by Aztec Well Service.
11. Following drilling, mud pits to be fenced and allowed to dry, then 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 shallow mesa-butte topography, approximately eight miles south of Largo Canyon. No major rivers are in the immediate vicinity.

Very truly yours,



Jack A. Cole

JAC:njs



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

JACK A. COLE
APACHE DRAW #1
790/S and 990/E Sec. 8-T22N-R3W
Sandoval County, New Mexico

Seven Point Well Control Program

1. Surface Casing.
See Application for Permit to Drill.
2. Spools and Flanges.
 - A. Surface Casing - 10", Series 600, 1500 psi W.P.
 - B. Production, 10", Series 600, 1500 psi W.P.
 - C. Tubing Head - Series 600, 1500 psi W.P.
3. Intermediate Casing.
None
4. Blowout Preventers.
Production Hole - 10", 3000 psi
Fill, kill and choke manifold - 5000 psi W.P.
5. Additional Equipment (If Necessary)
 - A. Kelly Cock
 - B. Bit Float
 - C. Degasser
 - D. Pit Level Indicator
 - E. Sub with Valve for Drill Pipe
6. 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.

Location Layout
 Jack A. Cole
 Apache Draw #1
 Sec. 8-T22N-R3W

LATRINE

PIPE RACKS

PIPE BASKET
 8' X 35'

PIPE BASKET & CATWALK
 8' X 45'

PIPE RACKS

SUB
 8' X 20'

350 BBL. MUD PIT
 8' X 55'

H-37 IDECO
 10' X 40'

DOG
 HOUSE
 8' X 12'

OIL RACK
 8' X 15'

FUEL
 TANK
 8' X 15'

WATER TANK
 550 BBL.
 12' X 35'

FXK PUMP
 10' X 25'

Reserve Pit

Aztec Well Service
 Rig No. 1

JACK A. COLE
PETROLEUM GEOLOGIST
P.O. BOX 191
FARMINGTON, NEW MEXICO 87401
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November 1, 1978

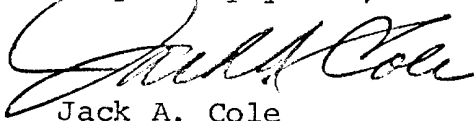
United States Geological Survey
P. O. Box 1809
Durango, Colorado

Certification: Operator's Representative-Jack A. Cole-
P. O. Box 191, Farmington, New Mexico,
(505) 325-1415 - Apache Draw #1

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

JAC:njs