

U.S. GEOLOGICAL SURVEY
Bureau of Geology

REMARKS IN TRIPLOGSHEET*
(Write instructions on
reverse side)

Check appropriate
boxes on reverse side

UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

30-043-20354

Contract 152

U. S. GEOLOGICAL SURVEY

Gicarilla Apache

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Apache Plateau

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14

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Ballantyne

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Sec. 34-123N-14W

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Sandoval

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Rotary

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July 25, 1978

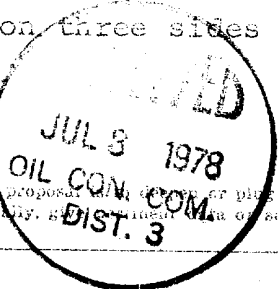
PROPOSED DRILLING AND CEMENTING PROGRAM

SIZE OF CASE	SIZE OF CASING	WELL DEPTH (FEET)	SETTING DEPTH	QUANTITY OF CEMENT
2 1/2"	8 5/8"	20.0	130'	Circulate
2 1/2"	4 1/2"	10.5	2500'	150 Sacks

Well will be mud drilled with rotary tools after setting and cementing
8 5/8" surface casing. Run electric logs @ total depth and set 4 1/2" casing
if warranted, cementing same with 150 sacks. Sand-water frac treat down
casing through perforations opposite Pictured Cliffs sand. Run 1" tubing
for production string to produce as a Pictured Cliffs natural gas well.

Will fence reserved pit on three sides before spudding and fourth side
upon spudding well.

gas not dedicated



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Describe proposed program: If proposed well is to be drilled or plugged back, give data on present productive zone and proposed new productive
zone. If proposed well is to be drilled or plugged back, give data on present productive zone and proposed new productive zone. Give blowout
prevention program, if any.

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Signature _____ TITLE Operator

DATE June 29, 1978

(Leave space for Federal or State office use)

Signature

APPROVAL DATE

CONDITIONS OF APPROVAL, IF ANY:

Signature

DATE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

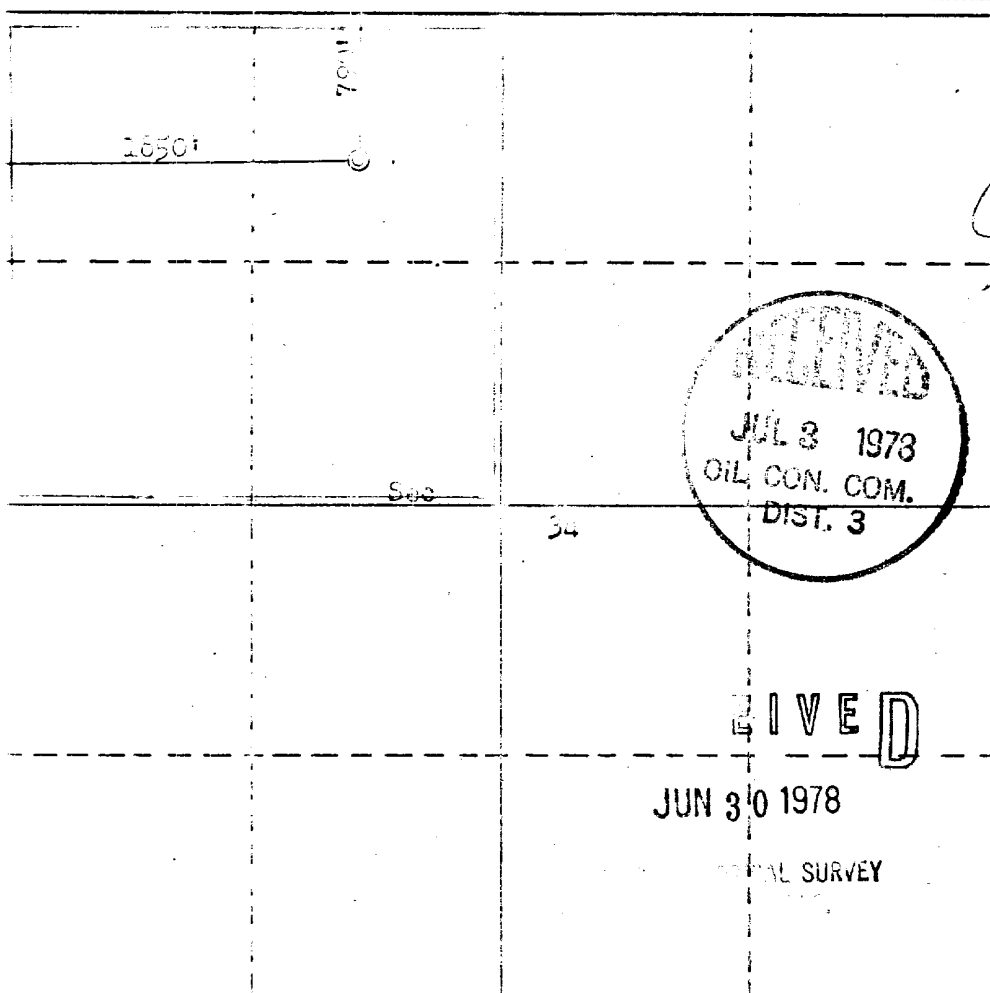
Operator COLD		Lease APACHE FLATS		Well No. 31	
Grid Letter C	Section 31	Township 23N	Range 1W	County Sandoval	
Actual Well Location of Well: 170 feet from the North line and 1850 feet from the West line					
Ground Elev. 7000	Producing Formation Pictured Cliffs		Pool Ballard PC	Dedicated Acreage: 160 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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

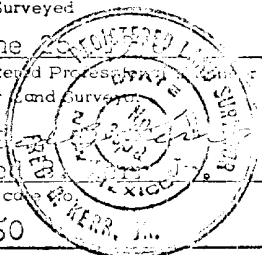
Company
June 29, 1978
Date

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

June
Registered Professional
and/or Land Surveyor

Certificate No.
3950



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

June 28, 1978

United States Department of Interior
Geological Survey-Durango District
P. O. Box 1009
Durango, Colorado 81301

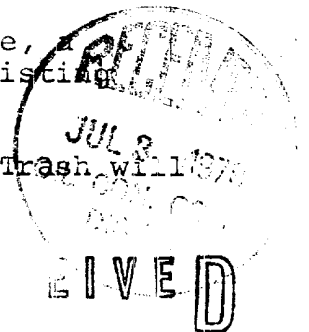
Attention: Mr. Jerry Long
District Engineer

Reference: 10 Point Environmental Program - Jack A. Cole - Apache
Flats #14, 790/N and 1850/W Sec. 34-T23N-R4W, 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 well.

1. Access to location from N. M. Highway 44 at intersection of N. M. 44 and N. M. 537, approximately 70 miles southeast of Bloomfield, New Mexico, then proceed north on N. M. 537 approximately 4 miles, and turn right about 700' to location.
2. Well location as shown on attached survey plat and map.
3. If gas production established, adequate production facilities to be installed immediately west of wellsite to accommodate a pipeline connection.
4. 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.
5. A reserve pit will be utilized for waste disposal. Trash will be buried 4 feet below surface.
6. No camps are planned.
7. No airstrips are planned.
8. Location layout indicated on attached plat as furnished by Coleman Drilling Company.



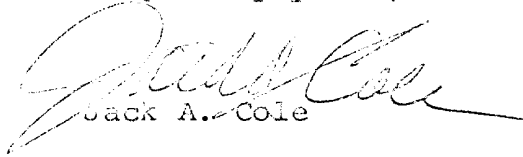
JUN 30 1978

GEOL. SURVEY

United States Department of Interior
June 28, 1978
Page 2

9. 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.
10. The location is located in an area of relatively flat topography, approximately eight miles south of Largo Canyon. No major rivers are in the immediate vicinity.

Very truly yours,


Jack A. Cole

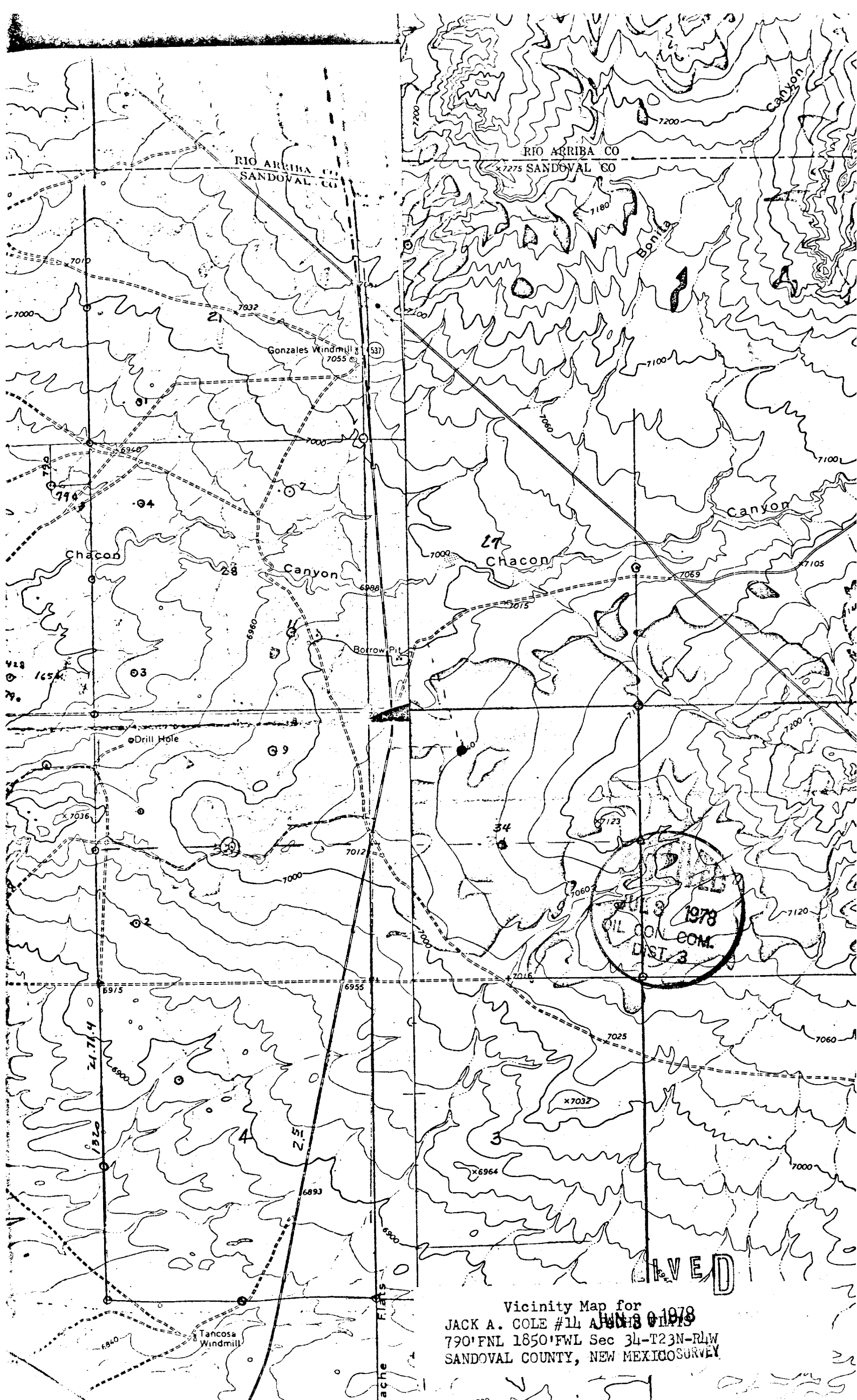
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LEGAL SURVEY



Vicinity Map for
JACK A. COLE #111 JUN 30 1978
790° FNL 1850° FWL Sec 34-T23N-R14W
SANDOVAL COUNTY, NEW MEXICO SURVEY

JACK W. COLE
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JACK W. COLE
APACHE PLATS #14
790/R and 1850/W Sec. 34-T23N-R4W
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
Kill, 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.



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PHYSICAL SURVEY

Location Layout
 Jack A. Cole
 Apache Flats #14
 Sec. 34-T23N-R4W

LATRINE

PIPE RACKS

PIPE BASKET
 8' X 35'

PIPE BASKET & CATWALK
 8' X 45'

PIPE RACKS

SUB
 3' X 20'

350 30'S. MUD PIT
 3' X 55'

H-37 10000
 10' X 40'

HOUSE
 8' X 12'

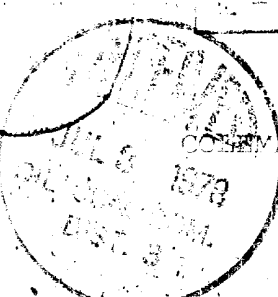
OIL BACK
 6' X 15'

FUEL
 TANK
 6' X 15'

WATER TANK
 350 30'S.
 12' X 22'

PXK PUMP
 10' X 25'

Reserve Pit



COLEMAN DRILLING COMPANY

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WELL SURVEY