

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

AMOCO PRODUCTION COMPANY

## 3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, New Mexico 87401

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

At surface  
1750' FNL and 660' FEL, Section 35, T25N, R4W  
At proposed prod. zone  
Same

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

10 miles West of Gavilan, New Mexico

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

660'

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1950'

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

7269' GL

## 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" (New)	24# K-55	300'	315 sx Class "B" w/2% CaCl2-circ
7-7/8"	5-1/2" (New)	17# N-80	8300'	1st Stage-418 sx Class "B" 50:50 POZ, w/6% gel, 2# med tuf plug/sx, and .8% FLA. Tail in w/100 sx Class "B" Neat-cover potential production zones-circ 2nd Stage-970 sx Class "B" light cmt 50:50 POZ w/6% gel, 2# med tuf plug/sx, and .8% FLA. Tail in w/100 sx Class "B" Neat cmt-circ DV tool set at 5822'

The above well is being drilled to test the Gallup and Dakota formations. The gas from this acreage is dedicated to Gas Co. of New Mexico.

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 prevention program, if any.

24.

SIGNED

*B.E. Jauch*

TITLE

District Engineer

DATE

April 30, 1980

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

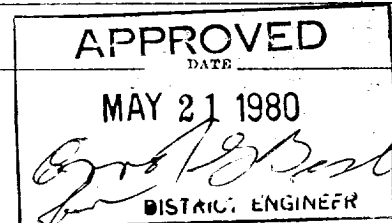
APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

IS AUTHORIZED ARE  
IN COMPLIANCE WITH ATTACHED  
REQUIREMENTS.

AMOCO



All distances must be from the outer boundaries of the Section

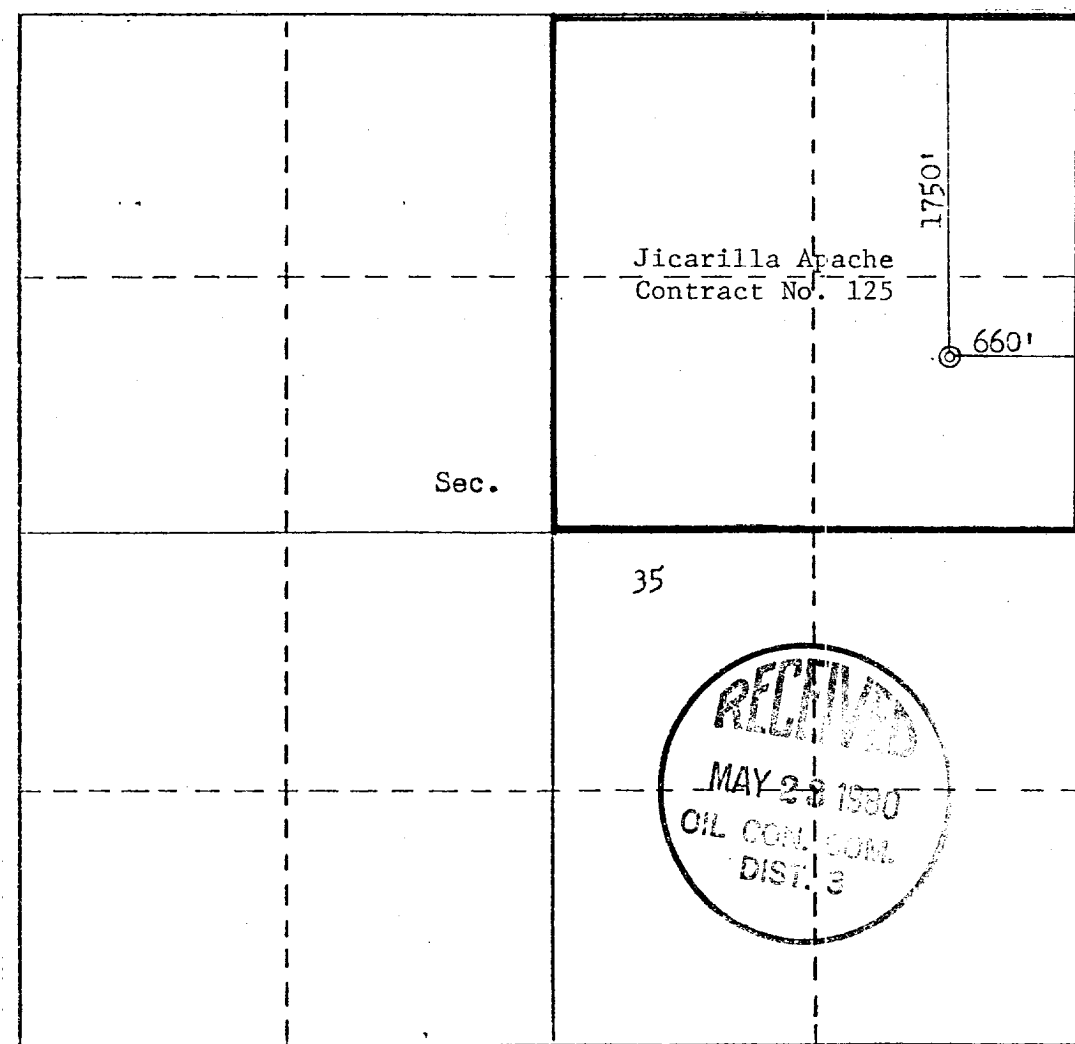
Operator <b>AMOCO PRODUCTION COMPANY</b>			Lease <b>JICARILLA APACHE TRIBAL 125</b>		Well No. <b>7</b>
Unit Letter <b>H</b>	Section <b>35</b>	Township <b>25N</b>	Range <b>4W</b>	County <b>Rio Arriba</b>	
Actual Footage Location of Well: <b>1750</b> feet from the <b>North</b> line and <b>660</b> feet from the <b>East</b> line					
Ground Level Elev. <b>7269</b>	Producing Formation <b>Gallup - Dakota</b>		Pool <b>Lindrith Gallup-Dakota West</b>		Dedicated Acreage: <b>160</b> 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.

*B.E. Fackrell*

Name

**B.E. FACKRELL**

Position

**DISTRICT ENGINEER**

Company

**AMOCO PRODUCTION COMPANY**

Date

**MARCH 13, 1980**

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.

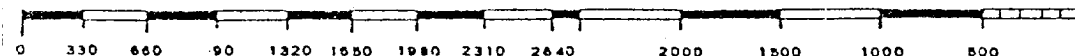
Date Surveyed

**March 1980**

Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr, Jr.*  
**Fred B. Kerr, Jr.**

Certificate No. **3950**



SUPPLEMENTAL INFORMATION TO FORM 9-331C

JICARILLA APACHE TRIBAL 125 NO. 7  
1750' FNL & 660' FEL, SECTION 35, T25N, R4W  
RIO ARriba COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary San Jose.

Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Ojo Alamo	2997'	+4285'
Kirtland	3197'	+4085'
Fruitland	3345'	+3936'
Pictured Cliffs	3532'	+3750'
Chacra (if present)	4389'	+2893'
Mesaverde	Cliff House 5174'	+2108'
	Point Lookout 5685'	+1597'
Gallup	6882'	+ 400'
Dakota	7782'	- 500'
TD	8300'	-1018'

Estimated KB elevation: 7282'

Drilling fluid to TD will be a fresh water, low solids non-dispersed mud system. Open hole logging program will include logs from TD to base of Mesaverde.

GR\*-CNL-FDS

GR-SP-IEL

GR\* 0-2000

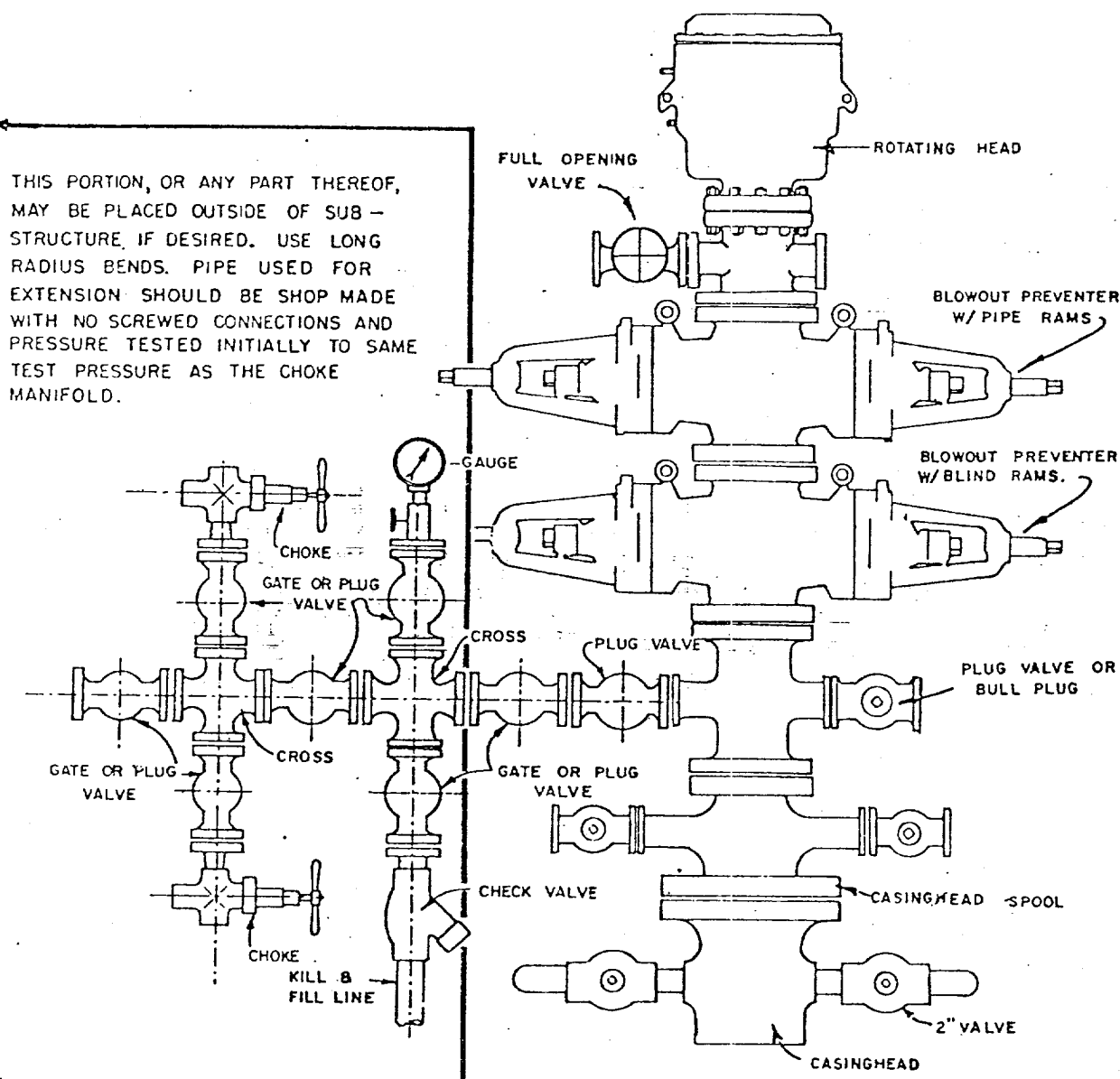
Completion design will be based on these logs. No cores or drill stem tests will be taken.

Operations will commence when permitted and last approximately 3 weeks.

Amoco's standard blowout prevention will be employed (see attached drawing).

In the past, drilling in this area has shown that no abnormal pressures, temperatures, nor hydrogen sulfide gas will be encountered.

1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
4. All fittings to be flanged.
5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



## BLOWOUT PREVENTER HOOKUP

API Series # 900

EXHIBIT D-4

OCTOBER 16, 1969

Operation of BOP by closing both pipe and blind rams will be tested each trip or, on long bit runs, pipe rams will be closed once each 24 hours.

MULTI-POINT SURFACE USE PLAN

JICARILLA APACHE TRIBAL 125 NO.7  
1750' FNL & 660' FEL, SECTION 35, T25N, R4W  
RIO ARriba COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build an access road approximately 600 feet in length and 20 feet wide. Road to be bar ditched on two sides.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map.
4. There are two 380-barrel tanks and facilities located at Jicarilla Apache Tribal 125 No. 1, approximately 4500 feet southwest.
5. Water will be hauled from Cottonwood Water Hole and Tapacito Wash.
6. No construction materials will be hauled in for this location.
7. A 125' by 125' pit will be built on location to hold all drilling waste. Upon completion of the well, pit will be fenced and waste and liquids left to dry, then pit will be filled and leveled. If any liquids remain, they will be hauled away prior to back filling.
8. There are neither airstrips nor camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet. A 10-foot cut will be made on west side.
10. Restoration of the surface will be accomplished by cleaning up and leveling upon completion of the well. Reseeding of the site will be carried out as instructed by the Bureau of Indian Affairs.
11. The general topography is a broken terrace slope with southeasterly drainage, alluvial surface deposits, and sandstone outcrops. The soil is a sandy and clayey loam. Vegetation consists of pinon, juniper, scrub oak, sagebrush, snakeweed, yucca, and native grasses.

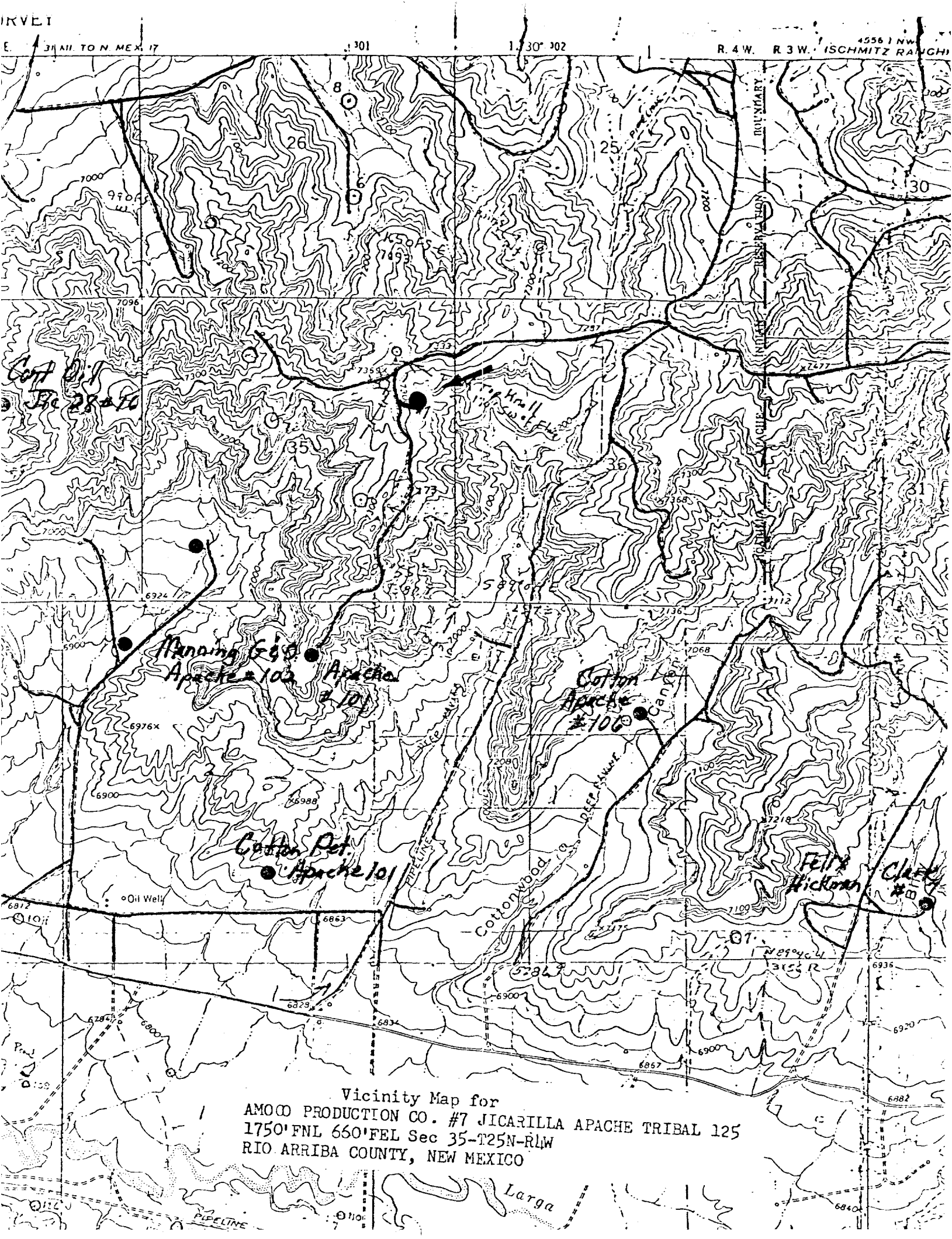
Representatives of the U. S. Geological Survey's Durango Office and the Jicarilla Tribe's Dulce Office inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from San Juan College.

12. Operator's Representative: R. W. Schroeder  
Phone: Office: 505-325-8841; Home: 505-325-6164  
Address: 501 Airport Drive, Farmington, NM 87401

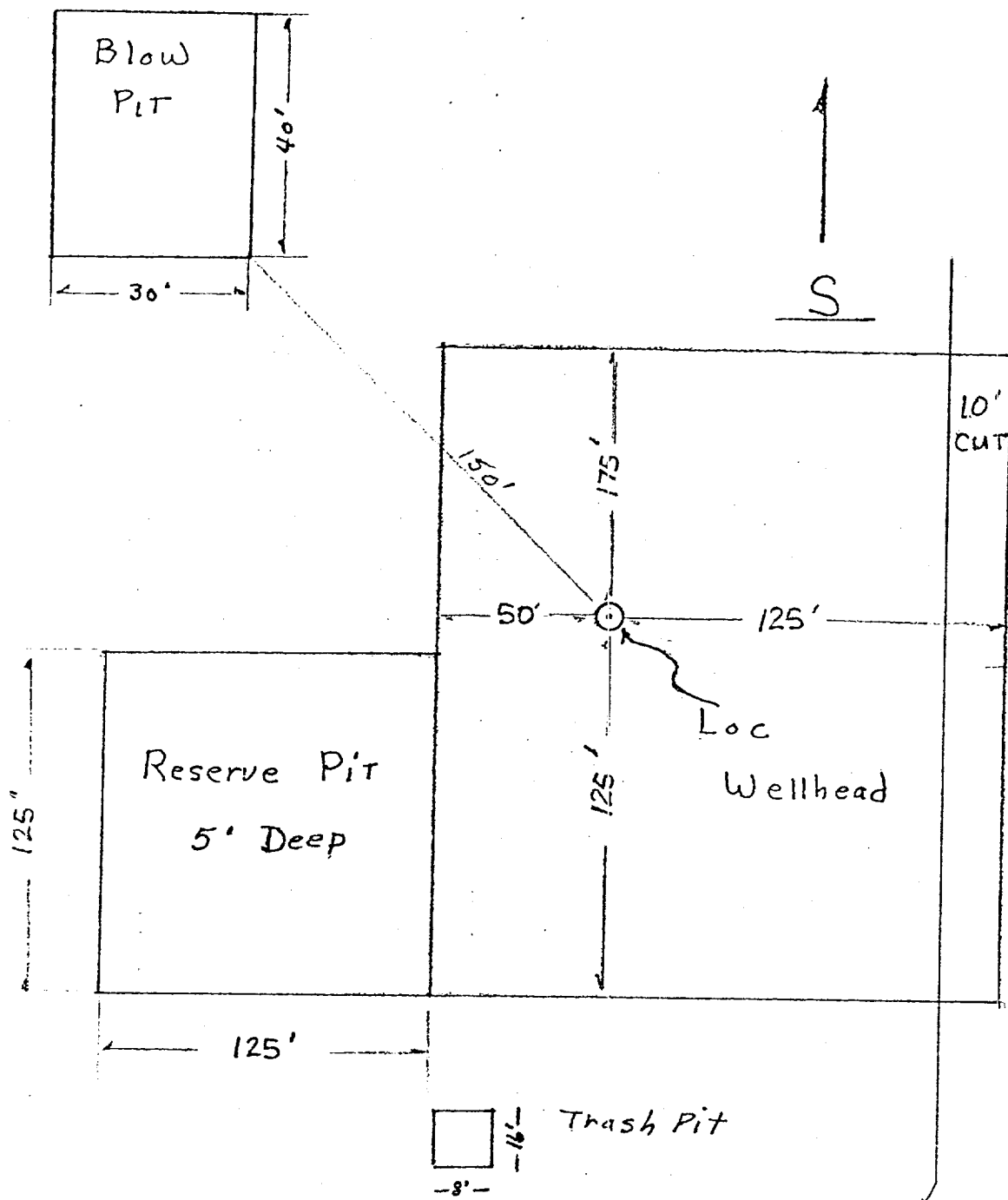
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date April 23, 1980

R.W. Schroeder  
R. W. Schroeder, District Superintendent



Vicinity Map for  
AMOCO PRODUCTION CO. #7 JICARILLA APACHE TRIBAL 125  
1750' FNL 660' FEL Sec 35-T25N-R4W  
RIO ARriba COUNTY, NEW MEXICO



Approximately 1.2 Acres

Amoco Production Company

SCALE: None

Drilling Location Specs  
JICARILLA APACHE TRIBAL 125 # 7

DRG.  
NO.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐

2. NAME OF OPERATOR  
Amoco Production Company

3. ADDRESS OF OPERATOR  
501 Airport Drive Farmington, NM 87401

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1750' FNL X 660' FEL  
AT TOP PROD. INTERVAL: same  
AT TOTAL DEPTH: same

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE  
Jicarilla Contract 125

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Jicarilla Apache Tribal 125

9. WELL NO.  
7

10. FIELD OR WILDCAT NAME  
Lindrith Gallup-Dakota West

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SE/4, NE/4  
Section 35, T25N, R4W

12. COUNTY OR PARISH  
Rio Arriba

13. STATE  
New Mexico

14. API NO.  
30-039-22355

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7269' GL

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF ☐ ☐

FRACTURE TREAT ☐ ☐

SHOOT OR ACIDIZE ☐ ☐

REPAIR WELL ☐ ☐

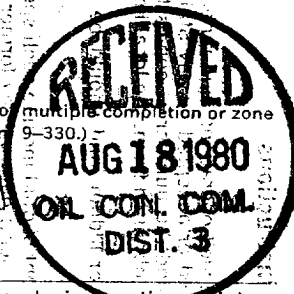
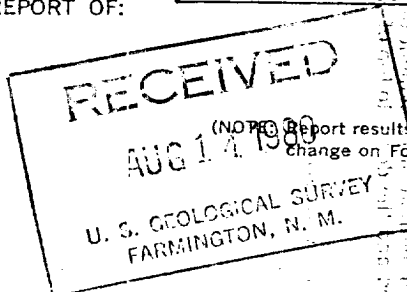
PULL OR ALTER CASING ☐ ☐

MULTIPLE COMPLETE ☐ ☐

CHANGE ZONES ☐ ☐

ABANDON\* ☐ ☐

(other) spud and set casing



17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded a 12-1/4" hole on 7-11-80 and drilled to 303'. Set 8-5/8" 24# surface casing at 299' on 7-11-80, and cemented with 315 sx of class "B" cement containing 2% CaCl<sub>2</sub>. Good cement was circulated to the surface. Drilled a 7-7/8" hole to a TD of 8109'. Set 5-1/2" 15.5# production casing at 8109', on 8-2-80, and cemented in two stages.

) Used 245 sx of class "B" cement containing 50/50 Poz, 6% gel, 2# Medium tuf plug per sx, and .8% fluid loss additive. This was tailed in with 525 sx of class "B" Neat cement. Good cement was circulated to the surface.

) Used 950 sx of class "B" cement containing 65/35 Poz, 6% gel, 2# Medium tuf plug per sx, and .8% fluid loss additive. This was tailed in with 100 sx of class "B" Neat cement. No cement was circulated to the surface.

The DV tool was set at 5850'.

The rig was released on 8-2-80.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED E. E. SYOBODA TITLE Dist. Adm. Supvr. DATE 8-13-80

ACCEPTED FOR RECORD

(This space for Federal or State office use)

APPROVED BY AUG 15 1980 TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

BY PLW FARMINGTON DISTRICT

NMOCC



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

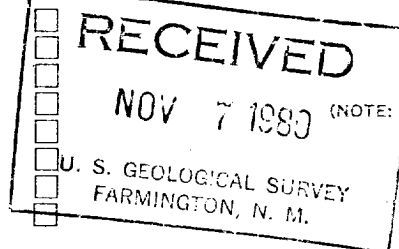
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR  
Amoco Production Company
3. ADDRESS OF OPERATOR  
501 Airport Drive, Farmington, NM 87401
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1750 FNL x 660 FEL  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Completion ☐

SUBSEQUENT REPORT OF:



5. LEASE  
Jicarilla Contract 125
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Jicarilla Apache
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME  
Jicarilla Apache 125
9. WELL NO.  
7
10. FIELD OR WILDCAT NAME  
Lindrith Gallup-Dakota West
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
SE/4, NE/4, Section 35, T25N, R4W
12. COUNTY OR PARISH  
Rio Arriba
13. STATE  
NM
14. API NO.  
30-039-22355
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7269' GL

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Completion operations commenced on 9-25-80. Total depth of the well is 8109', and plug back depth is 8051'. Perforated interval from 7976-8006', and 7956-7948' with 2 spf, a total of 76, .4" holes. Sand water fraced with 79,000 gal of frac fluid, and 206,000# of 20-40 sand. Perforated interval from 7860-7866', and 7797-7827' with 2 spf, a total of 72, .4" holes. Sand water fraced with 79,000 gal of frac fluid, and 241,000# of 20-40 sand. Landed 2 3/8" tubing at 8018'. Swabbed the well and released the rig on 10-2-80.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED \_\_\_\_\_ TITLE Dist. Admin. Supvr DATE 11-4-80  
E. E. SVOBODA

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

NMOCC

BW