

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-24044

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☐ DEEPEN ☒ *RE-ENTRY PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
ORVILLE SLAUGHTER

3. ADDRESS OF OPERATOR
2626 Adams Street Denver, CO 80205

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface D 34-30N 11W E/2 NW/4 San Juan County

D At proposed prod. zone 670 FNL, 580 FNL
Undesignated Fruitland

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
2 Miles South of Aztec

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 580'
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 220'

16. NO. OF ACRES IN LEASE 161.62
19. PROPOSED DEPTH 2057'

17. NO. OF ACRES ASSIGNED TO THIS WELL 161.62
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)
GR-5869

22. APPROX. DATE WORK WILL START*
15 Dec., 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

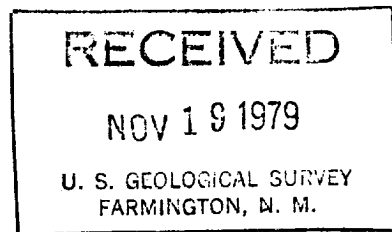
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/8"	8 5/8"	12.00	100'	20 Circulated to Surface
7 7/8"	4 1/2"	10.50	1400'	75 Circulated to Surface
3 7/8"	2 7/8"	8.00	2057'	100 Circulated to Surface

Selectively perforate and Sand Oil fracture the Fruitland formation.

A 1000 psi WP and 300 psi test double gate preventer equipped with blind and pipe rams will be used for blow out prevention on this well.

This gas is dedicated.

The w/2 of Section 34 is dedicated to this well.



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 Orville Slaughter TITLE Operator DATE 15 Nov., 1979

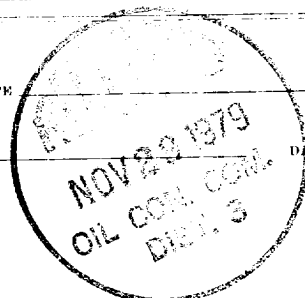
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank
NMOCC



All distances must be from the outer boundaries of the Section

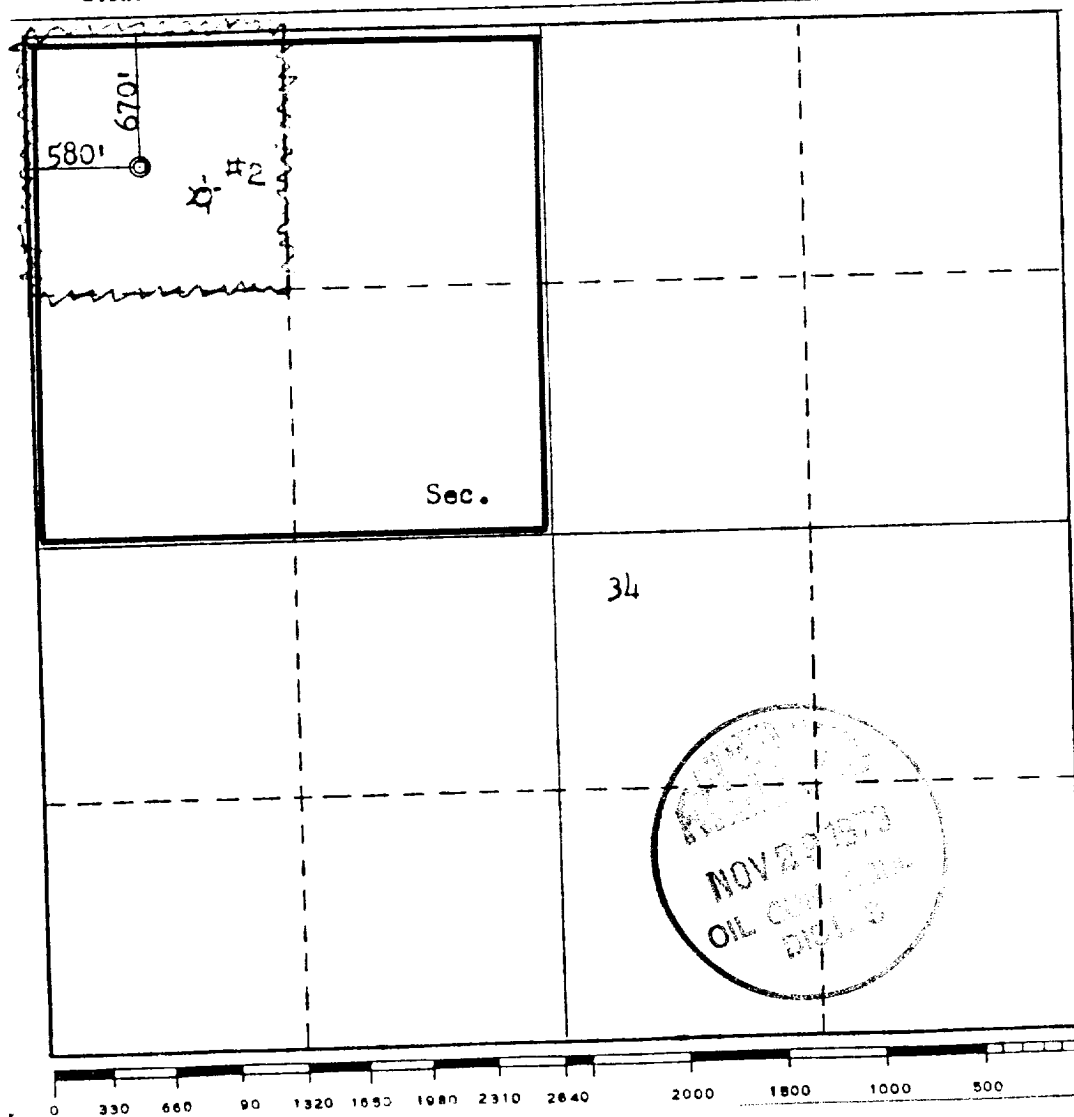
Operator ORVILLE SLAUGHTER & ASSOCIATES		Lease SANGRE DE CRISTO		Well No. 25
Unit Letter D	Section 34	Township 30N	Range 11W	County San Juan
Actual Footage Location of Well: 670 feet from the North line and 580 feet from the West line				
Ground Level Elev. 5900	Producing Formation FRUITLAND	Pool A2 fec Fruitland Sand UNDESIGNATED		Dedicated Acreage: 161.62 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.

Orville Slaughter
Name
Operator
Position

Company

Date

15 Nov 1979

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

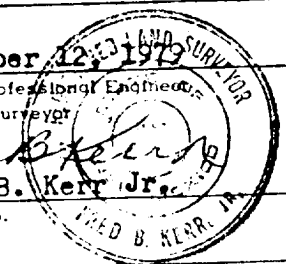
November 12, 1979

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No.

3950



Operations Plan - Sangre - De - Cristo #4

I. Location: 580' FWL, 670' FNL Section 34, T-30-11W, San Juan County, N.M.
Field: Undesignated Fruitland

II. Geology:

A. Formation Tops:	Surface	San Jose
	Ojo Alamo	415'
	Kirtland	420'
	Farmington	515'
	Fruitland	1685'
	Total Depth	2057'

B. Logging Program: Induction Electric and TDT Gamma Ray at TD.

C. Coring: None

D. Samples: None

III. Drilling:

A. Mud Program: Mud from 1500' to Total Depth. Clean out existing hole to TD 1500'. Deepen hole to 2057'.

A. Casing Program:

IV. Materials

A. Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Csg. Size</u>	<u>Wt. & Grade</u>
	12 1/8"	100'	8 5/8"	12.5# H-20
	7 7/8"	1400'	4 1/2"	10.5# J-55
	3 1/4"	2057'	2 7/8"	8.0# J-55

B. Float Equipment: 2 7/8" Production Casing - Howco guide shoe and self-fill insert valve, with one centralizer on the 3rd joint from bottom.

C. Tubing: 2057' of 2 1/16" small coupling tubing with a common pump seating nipple and an expendable check valve with drill type guide.

D. Wellhead Equipment: 10" 1000 x 8 5/8" WKM Brewster Type R Casing Head with 10" x 2 7/8 Type SA Casing Hanger will be used.

V. Cementing:

Surface casing this well is a re-entry thru existing casing.

Production Casing -

2 7/8" production casing will be run inside 4 1/2" existing casing and cemented 100 sacks of 65/35 class "B" Pozmix with 6% gel and 2% calcium chloride mixed with 8.3 gallons water per sack and over displace to surface with water.

SANGRE DE CRISTO

Multi-Point Surface Use Plan

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.
2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts or any other measure deemed necessary by trained Company personnel to insure proper drainage. Gates and/or cattleguards will be installed if necessary.
3. Location of Existing Wells - Please refer to Map No. 2.
4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows the existing gas gathering lines. Map No. 1 shows the existing roads and new proposed access roads. All known production facilities are shown on these two maps.
5. Location and Type of Water Supply - Water for the proposed project will be obtained from Oil Separator.
6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.
7. Methods of Handling Waste Materials - All garbage and trash material, will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet (3'). A latrine, the location of which is also shown on Plat No. 1,

7. cont'd.

will be provided for human waste. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary Facilities - No camps or airstrips will be associated with this project.

9. Wellsite Layout - Please refer to the attached Plat No. 1.

10. Plans for Restoration of the Surface - After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operation will be performed during the time period set forth by the regulatory body. The location production equipment will be painted as designated by the responsible government agency.

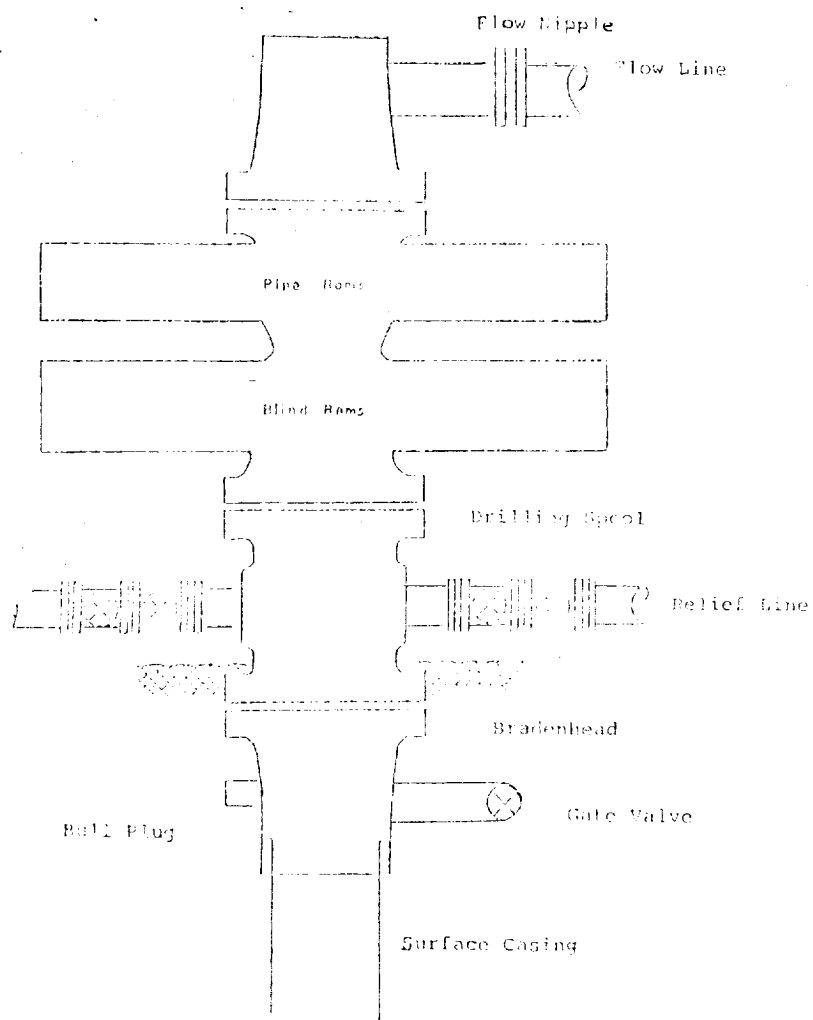
11. Other Information - The terrain is rolling hills with cedar, rabbit brush and piñon growing. Deer and rabbits are occasionally on the proposed project area.

12. Operator's Representative -

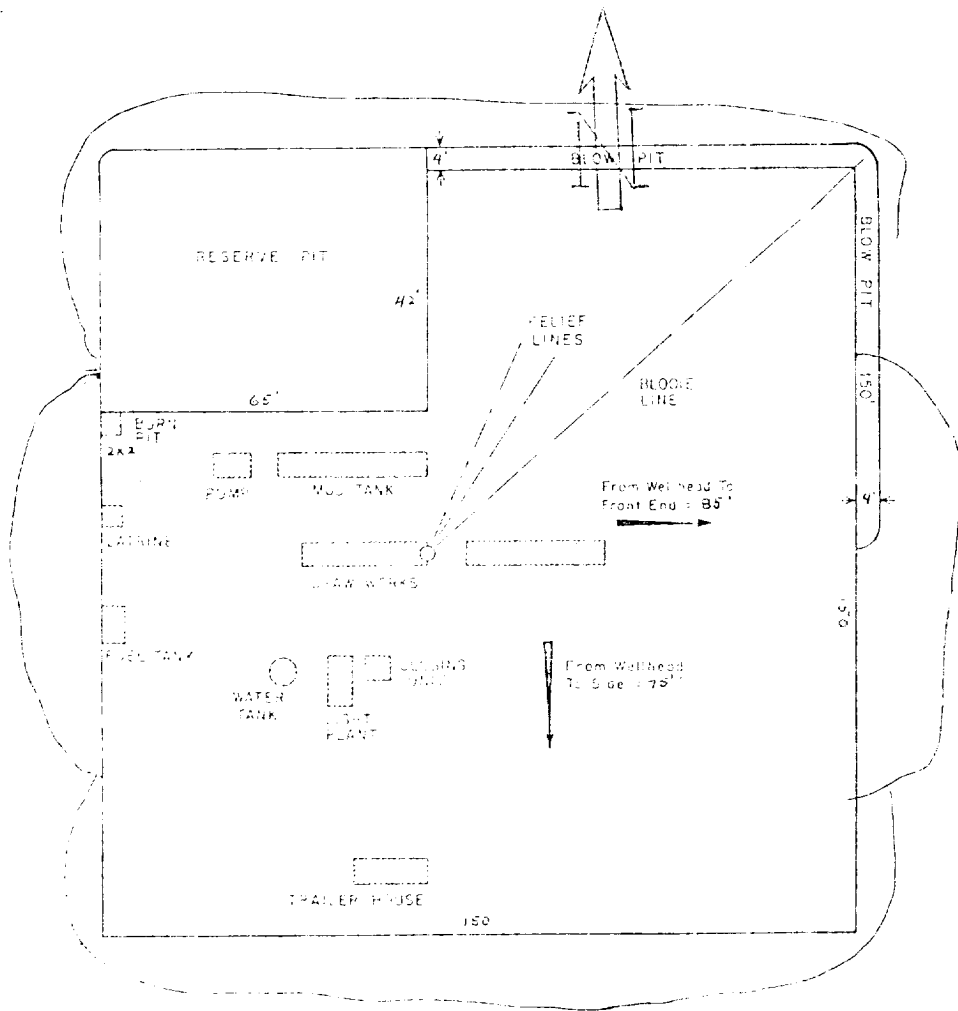
13. Certification -

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 operation herein will be performed by O. S. Slaughter and Company and its contractors and employees in conformity with this plan and the terms and conditions under which it is approved.

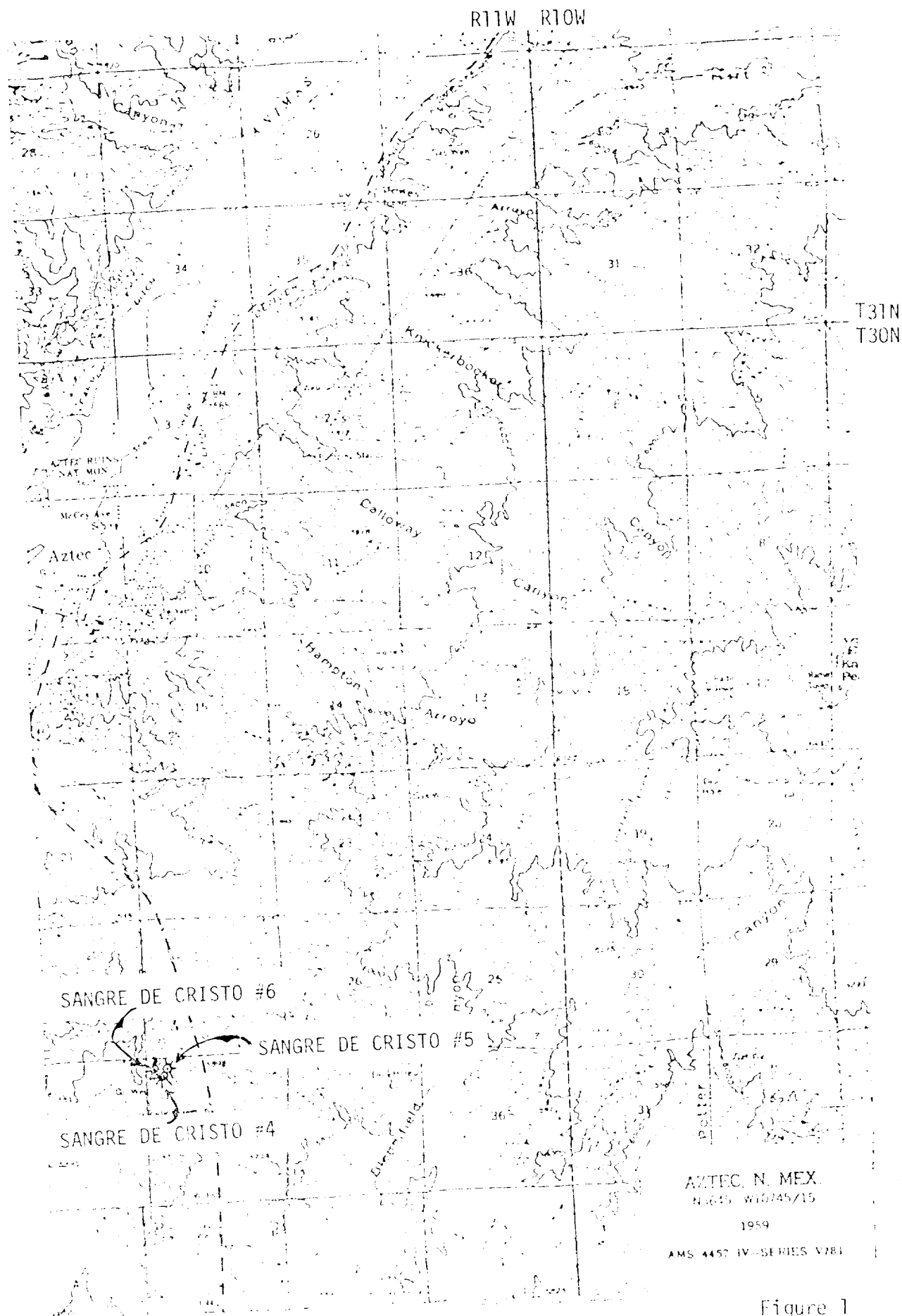
O. S. Slaughter



Series 200 Double Gate BOP, rated
at 3000 psi Working Pressure
When the drilling operations begin a Shaffer type
50 or equivalent rotating head is installed on top of
the flow nipple and the flow line is converted into
a blowline.



ENG. REC. DATE 0.0 R (C-10-79)		SANGRE DE CRISTO TYPICAL LOCATION PLAT	
SCALE 1" = 50'		Dwg. NO. REV.	



SANGRE DE CRISTO

Environmental Impact Study on a Multi-Well Drilling Venture

**Submitted to the United States Geological
Survey for Compliance with the National
Environment Policy Act of 1969**

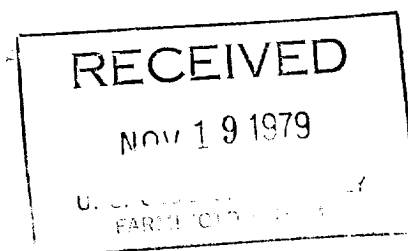


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