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NEW MEXICO OIL CONSERVATION COMMISSION

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FEB 10 1984
OIL CON. DIV.
DIST. 3

30-045-25891
Form C-101
Revised 1-1-65

5A. Indicate Type of Lease	
STATE <input type="checkbox"/>	FEE <input checked="" type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name	
Hare Gas Com "I" 637	
9. Well No.	
1	
10. Field and Pool, or Wildcat	
Otero Chacra	
12. County	
San Juan	
19. Proposed Depth	19A. Formation
2937'	Chacra
20. Rotary or C.T.	
Rotary	
21A. Kind & Status Plug. Bond	21B. Drilling Contractor
Statewide	True Drilling
22. Approx. Date Work will start	
As soon as permitted.	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. Type of Work	
DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>
2. Type of Well	
OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>
3. Name of Operator	
Amoco Production Company	
4. Address of Operator	
501 Airport Drive, Farmington, New Mexico 87401	
5. Location of Well	
UNIT LETTER E	LOCATED 1450 FEET FROM THE North LINE
AND 1135 FEET FROM THE West	LINE OF SEC. 23 TWP. 29N RGE. 11W NMPM
6. Elevations (Show whether DE, RT, etc.)	
5467' GR	
7. Unit Agreement Name	
8. Farm or Lease Name	
Hare Gas Com "I" 637	
9. Well No.	
1	
10. Field and Pool, or Wildcat	
Otero Chacra	
12. County	
San Juan	
19. Proposed Depth	
2937'	
19A. Formation	
Chacra	
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Rotary	
21A. Kind & Status Plug. Bond	
Statewide	
21B. Drilling Contractor	
True Drilling	
22. Approx. Date Work will start	
As soon as permitted.	

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#, K-55	300'	400 (Note 1)	Circ. to Surface
6-3/4"	4-1/2"	10.5#, K-55	2937'	450 SX (Note 2)	Circ. to Surface

Note 1 - Class "B" with 2% CaCl₂.
Note 2 - 350 SX Class "B" 50:50
POZ with 100 SX Class "B"
Neat tail.

The subject well will be drilled to further develop the Otero Chacra reservoirs. The well will be drilled from 0-300' using native spud mud. The well will then be drilled from 300' to TD using a low solids non-dispersed mud system. Completion design will be based on open hole logs. Copies of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed.

The production from this well is dedicated to Northwest Pipeline under contract 108,394.

APPROVAL EXPIRES 8-10-84
UNLESS DRILLING IS COMMENCED.
SPUD NOTICE MUST BE SUBMITTED
WITHIN 10 DAYS.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Original Signed By

Signed D.D. Lawson Title District Adm. Supervisor Date February 9, 1984

(This space for State Use)

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT #3 DATE FEB 10 1984

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

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

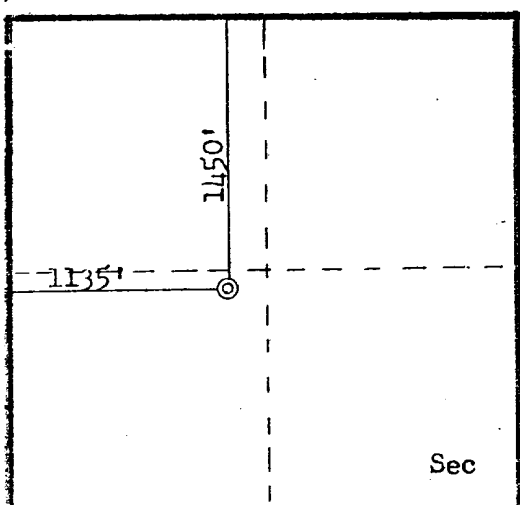
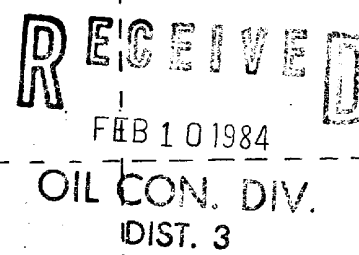
Operator Amoco Production Company			Lease Hare Gas Com I		Well No. 1
Unit Letter E	Section 23	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1450 feet from the North line and 1135 feet from the West line					
Ground Level Elev: 5467	Producing Formation Chacra	Pool Otero		Dedicated 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 Communitized

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.

Scale: 1"=1000'

CERTIFICATION

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

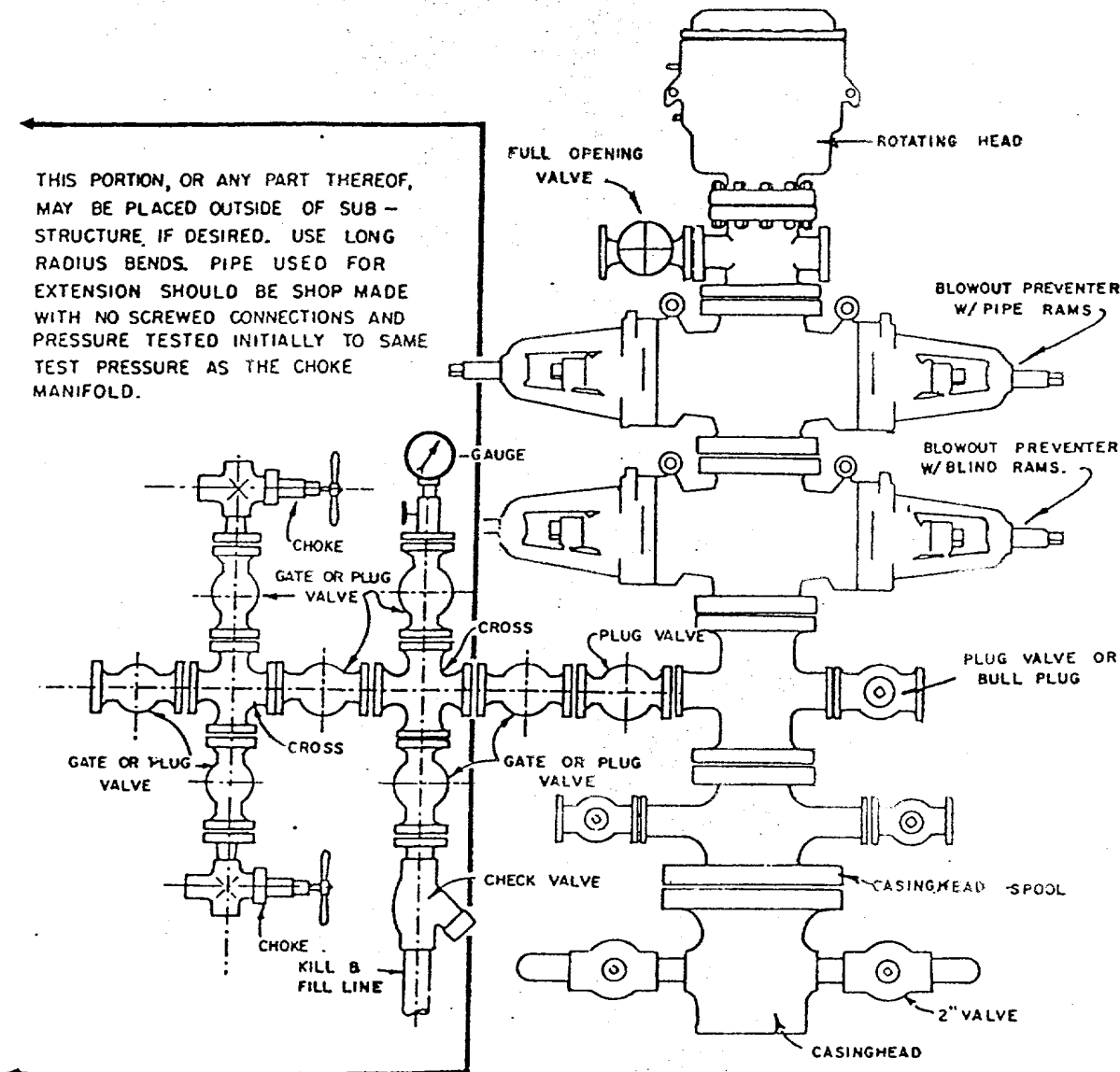
Original Signed By
D. D. LAWSON

Name
Darrell D. Lawson
Position
District Adm. Supervisor
Company
Amoco Production Company
Date
February 7, 1984

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
January 17, 1984
Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.
Certificate No. 3950

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 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

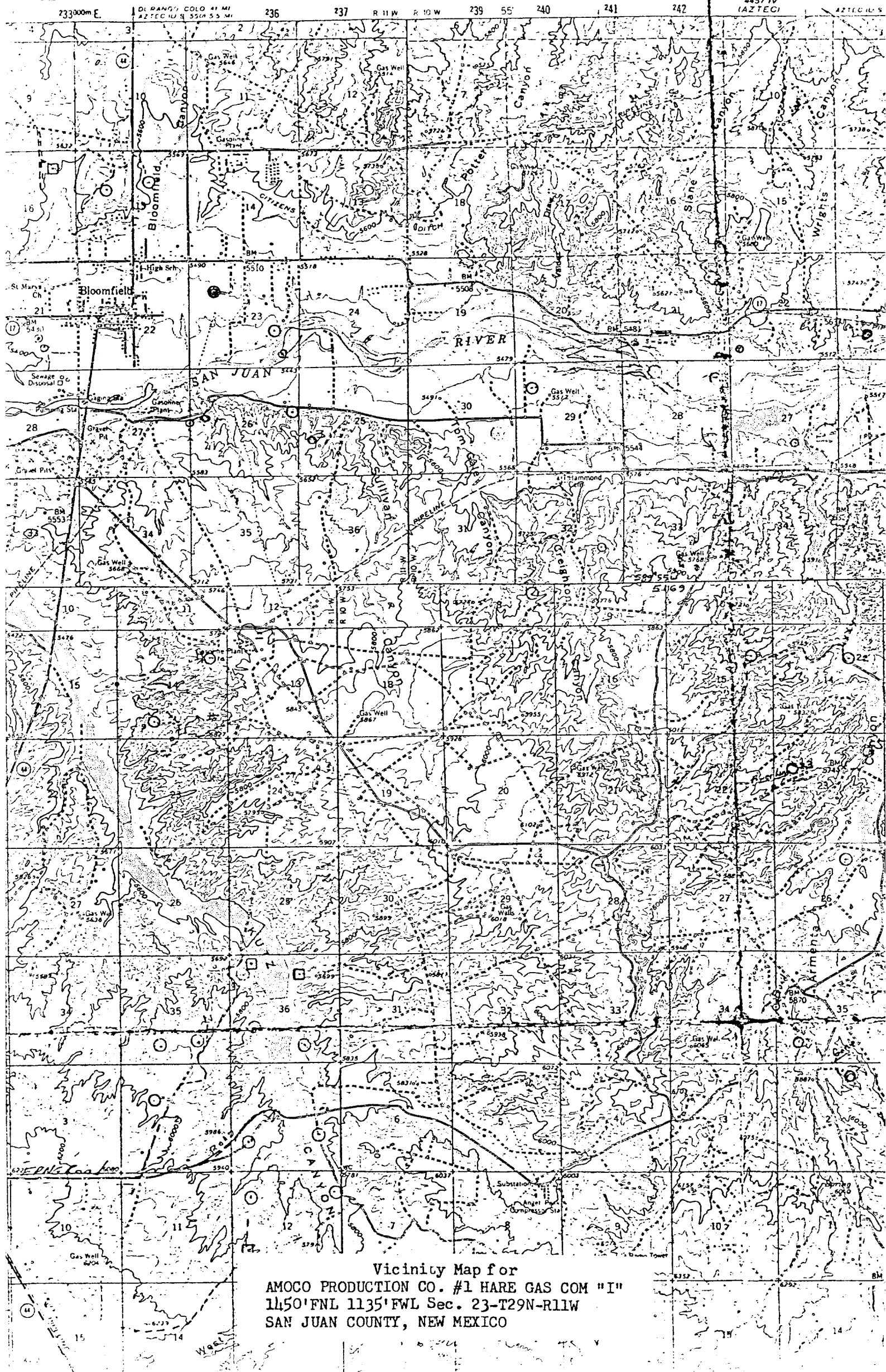
API Series # 900

EXHIBIT D-4

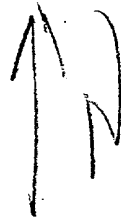
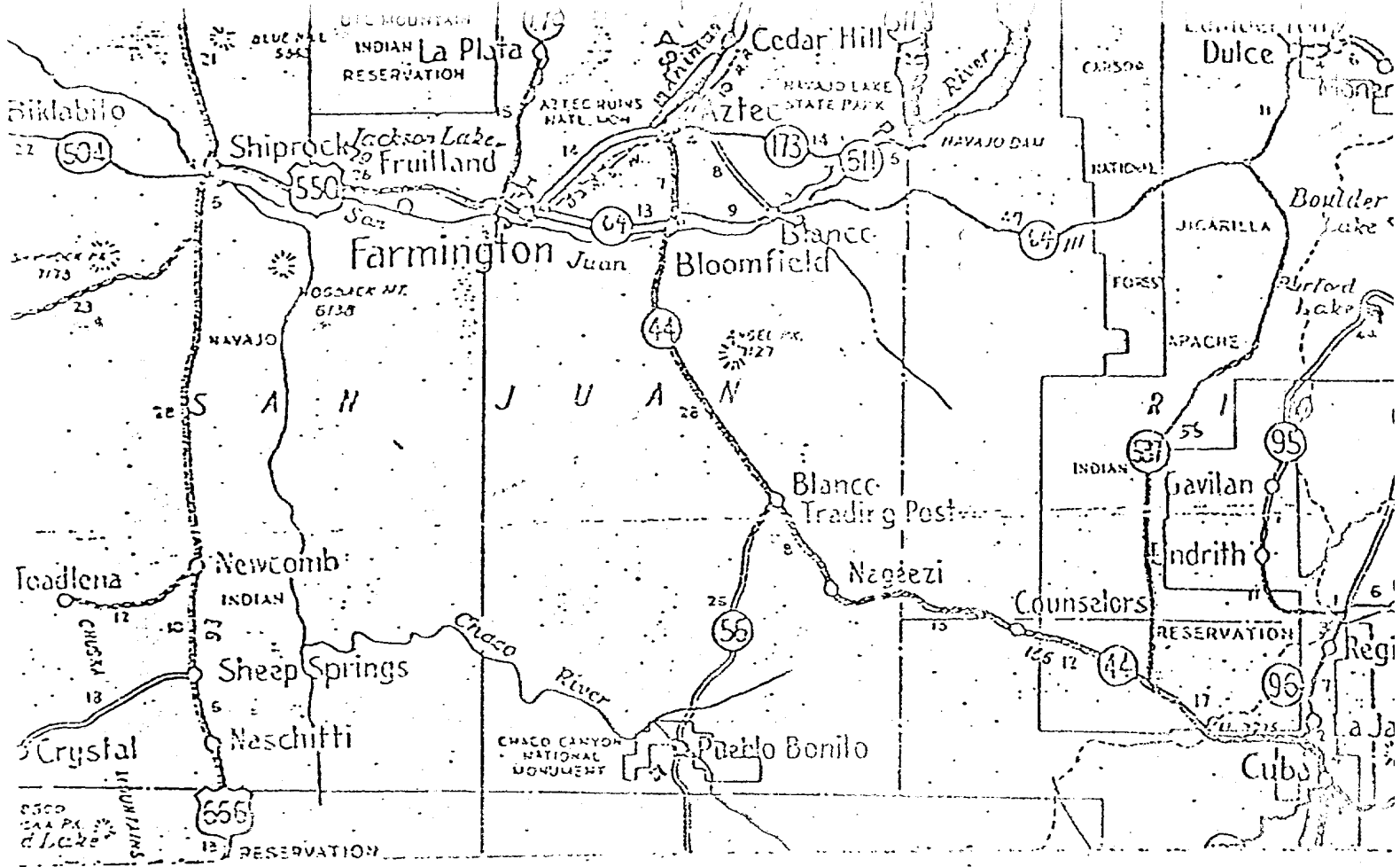
OCTOBER 16, 1969

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.

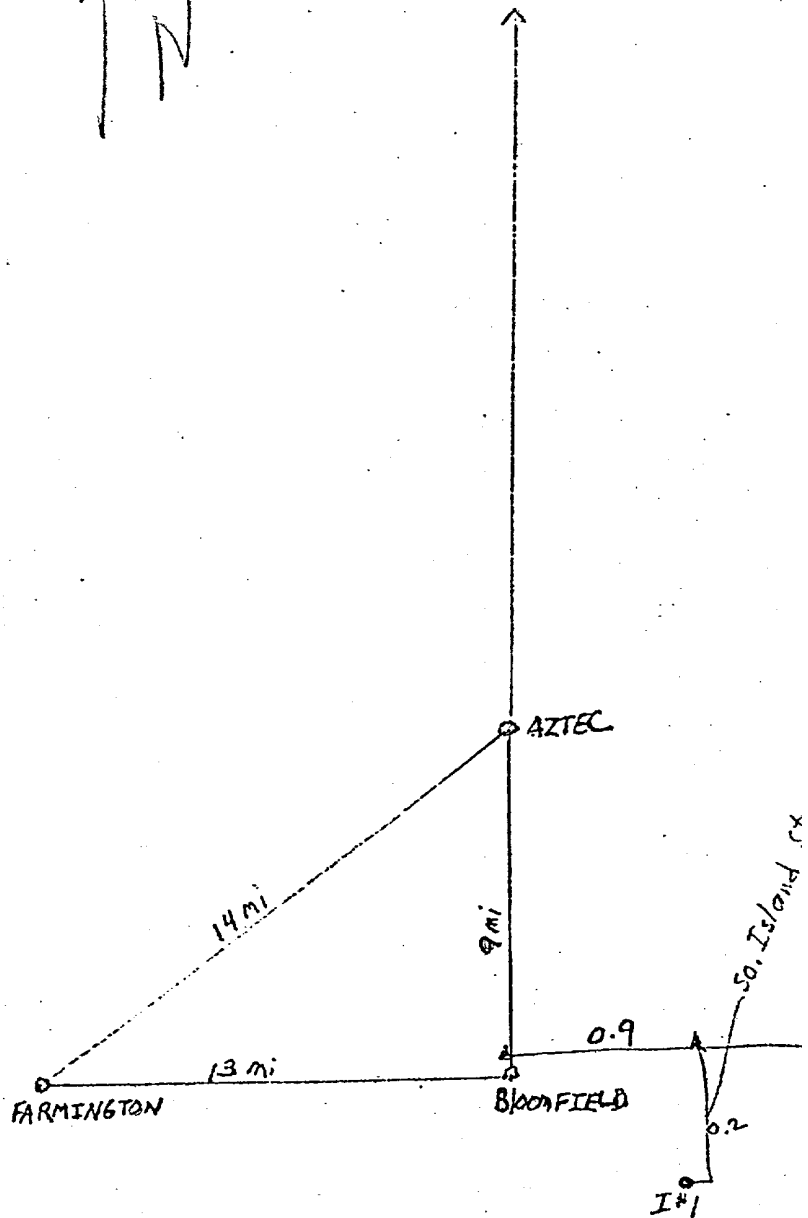
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Vicinity Map for
AMOCO PRODUCTION CO. #1 HARE GAS COM "I"
1450' FNL 1135' FWL Sec. 23-T29N-R11W
SAN JUAN COUNTY, NEW MEXICO



To Durango



Hare Gas Com I #1
 1450' FNL, 1135' FNL
 Sec. 23, T29N - R11W
 San Juan Co. N.M.

Rail Point - Gallup 137.1 miles
 Mud Point - Aztec 10.1 miles
 Cement Point - Farmington 14.1 miles