

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 INFILL ☐ 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
615' FSL and 810' FWL, Section T27N, R10W
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles Southeast of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 615'

16. NO. OF ACRES IN LEASE 1822.16

17. NO. OF ACRES ASSIGNED TO THIS WELL S 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3765'

19. PROPOSED DEPTH 6640'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6158' GL

22. APPROX. DATE WORK WILL START* As soon as permitted

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)	32# K-55	300'	To Sur 300 Class "B" x 2% CaCl ₂ -circ
7-7/8"	4-1/2" (New)	10.5# K-55	6640'	To Sur 1600 Class "B" 50:50 POZ, 6% gel, 2# med tuf plug/sx, .8% fld loss. Tail in w/100 sx Class B Neat-circ

This application to drill an Infill Basin Dakota well is pursuant to Order No. R-1670-V approved by the NMOCDC on May 22, 1979. This well will qualify under Section 103 of the Natural Gas Policy Act under Order No. R-1670-V.

The gas from this well is dedicated to E Paso Natural Gas.

AN APPLICATION FOR AN UNORTHODOX LOCATION HAS BEEN FILED WITH THE SANTA FE OFFICE OF THE NMOCDC.

NSL-1180

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 blow out prevention program, if any.

24. SIGNED B. E. Jacknell TITLE District Engineer DATE April 30, 1980
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDEDDATE _____
James J. Lee

NMOCDC

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SUPPLEMENTAL INFORMATION TO FORM 9-331C

JACK FROST "B" NO. 1E
615' FSL & 810' FWL, SECTION 27, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

The geologic name of the surface formation is the Tertiary Nacimiento.

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	820 '	+5354 '
Kirtland	1070 '	+5104 '
Fruitland	1665 '	+4509 '
Pictured Cliffs	1920 '	+4254 '
Chacra (if present)	2820 '	+3354 '
Mesaverde	Cliff House 3510 '	+2664 '
	Point Lookout 4350 '	+1824 '
Gallup	5440 '	+ 734 '
Dakota	6365 '	- 191 '
TD	6640 '	- 466 '

Estimated KB elevation: 6174 '

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 below surface casing:

SP-Induction-GR
Compensated Density-Compensated Neutron-GR

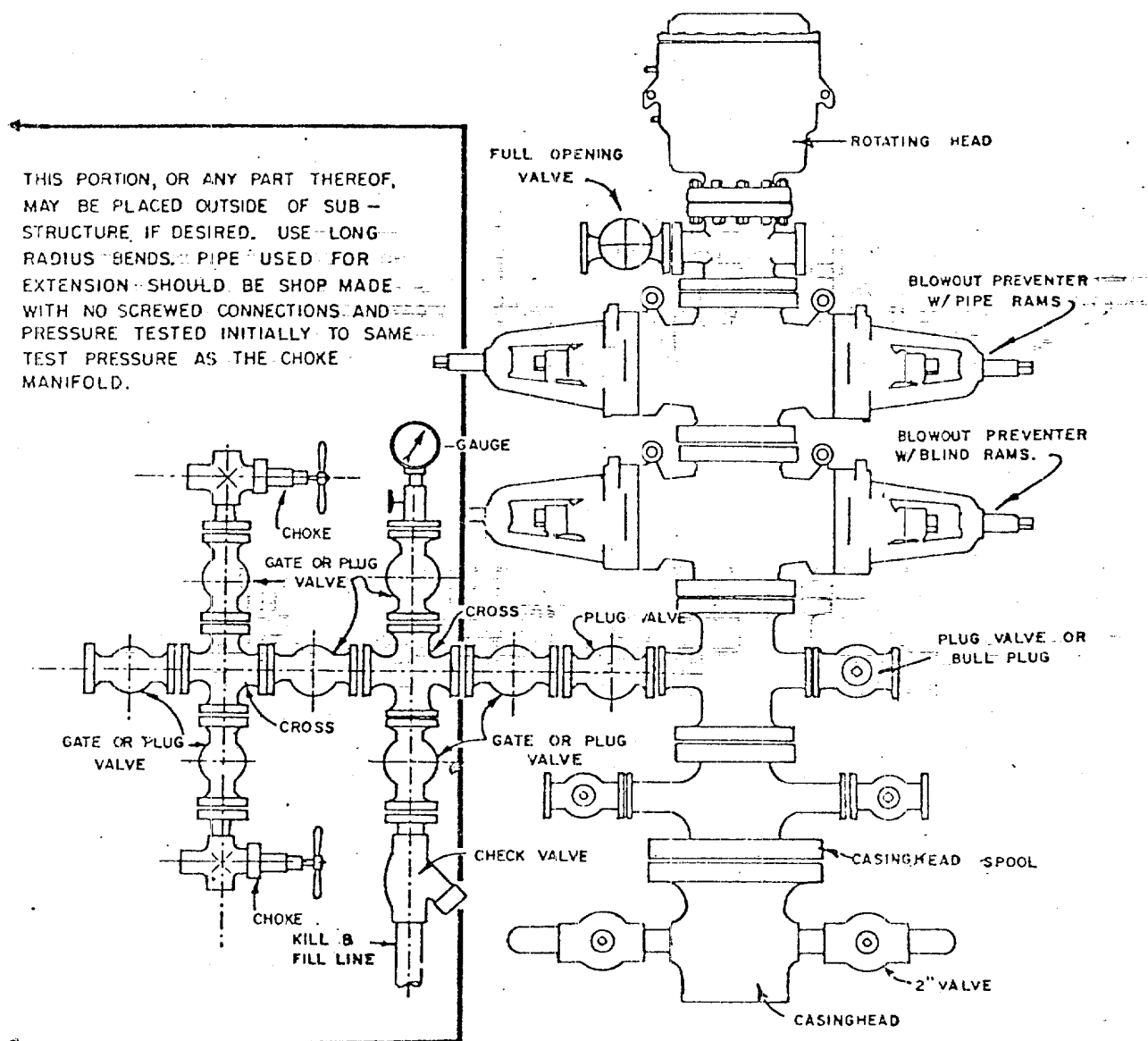
Completion design will be based on these logs. No cores or drill stem tests will be taken.

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

JACK FROST "B" NO. 1E
615' FSL & 810' FWL, SECTION 27, T27N, R10W
SAN JUAN COUNTY, NEW MEXICO

1. The attached topographic map shows the proposed route to the location.
2. It will not be necessary to build any access road.
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 is a 380-barrel tank and facilities located at Jack Frost "B" Well No. 2, approximately one-half mile northeast.
5. Water will be hauled from Kutz Wash water holes.
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 3-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 Land Management.
11. The general topography is a flat area, on edge of wash, with sandy loam soil; vegetation consists of native grasses and junipers.

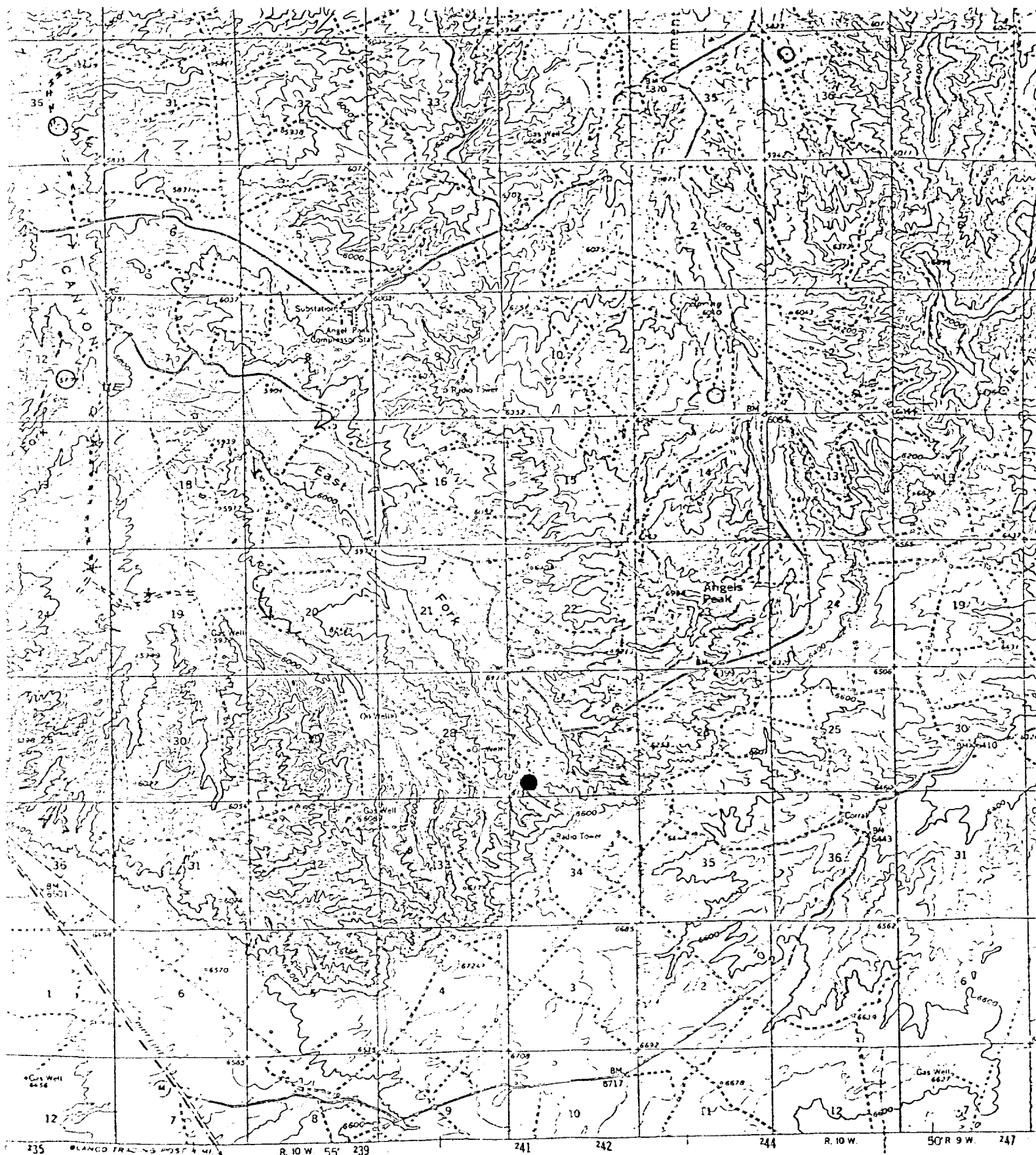
Representatives of the U. S. Geological Survey's Farmington Office and the Bureau of Land Management inspected the site with Amoco personnel. Cultural resources inspection was conducted by an archaeologist from Salmon Ruins.

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

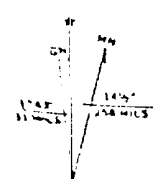
Certification: I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the 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



Survey



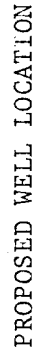
UPPER AND LOWER MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

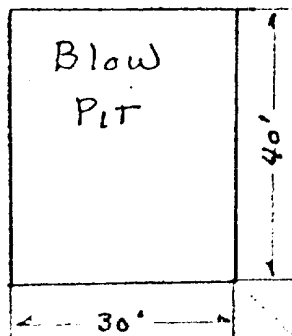
Vicinity Map for
AMOCO PRODUCTION CO. #1-E JACK FROST "B"
615' FSL 810' FWL Sec 27-T27N-R10W
SAN JUAN COUNTY, NEW MEXICO



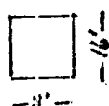
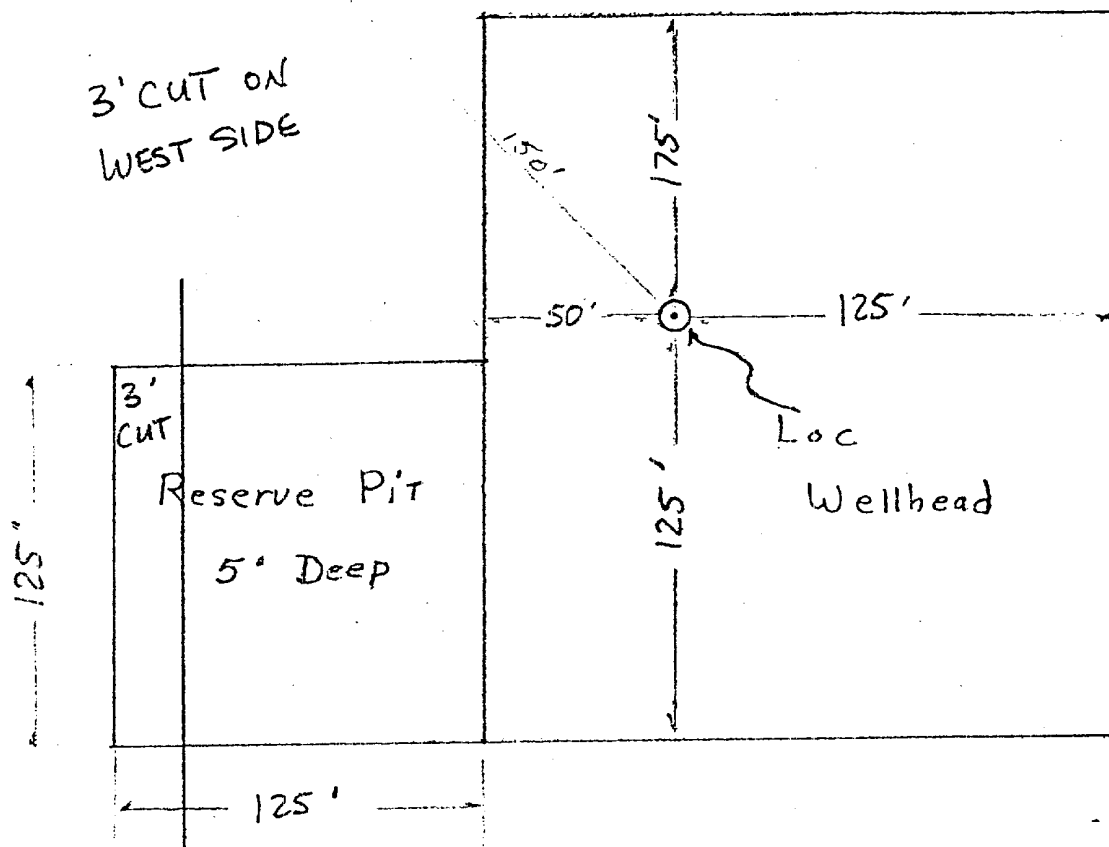
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
OF THE FEDERAL GEOGRAPHIC SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20242

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3' CUT ON
WEST SIDE



Trash Pit

Approximately 1.2 Acres

Amoco Production Company	SCALE: NONE
Drilling Location Specs	DRG. NO.
JACK FROST "B" No. 1E	

