

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED OIL SUB. REPORT/abd

* location change 4-13-82

DATE FILED 3-17-82

LAND. FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-39579 INDIAN _____

DRILLING APPROVED: 3-17-82

SPUDDED IN:

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION:

GRAVITY API

GOR

PRODUCING ZONES

TOTAL DEPTH

WELL ELEVATION:

DATE ABANDONED: LOCATION ABANDONED 8-12-82

FIELD: WILDCAT 7/86

UNIT:

COUNTY: SAN JUAN

WELL NO. U.S.A. AMOCO "L" #1 API NO. 43-037-30769

LOCATION 2468' FT. FROM (N) X LINE. 2635' 2625' FT. FROM (W) XX LINE. SE NW 1/4 - 1/4 SEC. 22

TWP	RGE.	SEC.	OPERATOR	TWP	RGE.	SEC.	OPERATOR
37S	13E	22	AMOCO PRODUCTION COMPANY				

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

DO NOT DUPLICATE*
(Other instructions on reverse side)

5. Lease Designation and Serial No.

U-39579

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL [X]

DEEPEN []

PLUG BACK []

7. Unit Agreement Name

b. Type of Well

Oil Well []

Gas Well []

Other Wildcat

Single Zone [X]

Multiple Zone []

8. Farm or Lease Name

USA Amoco "L"

2. Name of Operator

Amoco Production Company

9. Well No.

1

3. Address of Operator

501 Airport Dr., Farmington, NM 87401

10. Field and Pool, or Wildcat

Wildcat

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

1980' FSL x 1840' FWL, Section 22, T37S, R13E

11. Sec., T., R., M., or Blk. and Survey or Area

Section 22, T37S, R13E

At proposed prod. zone
Same

NESW

14. Distance in miles and direction from nearest town or post office*

Approximately 100 miles Southwest of Blanding, Utah

12. County or Parrish

San Juan

13. State

Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

1840'

16. No. of acres in lease

2548'

17. No. of acres assigned to this well

Wildcat

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

21,120

19. Proposed depth

2100'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5252' Ungraded Ground Level

22. Approx. date work will start*

As soon as permitted.

23.

PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: Size of Hole, Size of Casing, Weight per Foot, Setting Depth, Quantity of Cement. Includes rows for 12-1/4" and 7-7/8" hole sizes.

Amoco Production Company proposes to drill the above Wildcat well to a depth of 2100' to test the White Rim Sandstone formation. Completion will be based on open hole logs. Copies of all logs run will be furnished upon reaching total depth. Copies of the location plat are attached as well as additional information required by NTL-6.

This well is being drilled as a TIGHT HOLE and information is to be kept confidential.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 3/17/82

BY: [Signature]

CONFIDENTIAL

CONFIDENTIAL

IN THE SPACE PROVIDED: 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: Wayne J. Peterson

Title: District Engineer

Date: MAR 12 1982

(This space for Federal or State office use)

Permit No. Approval Date

Approved by: Conditions of approval, if any: Title: Date:

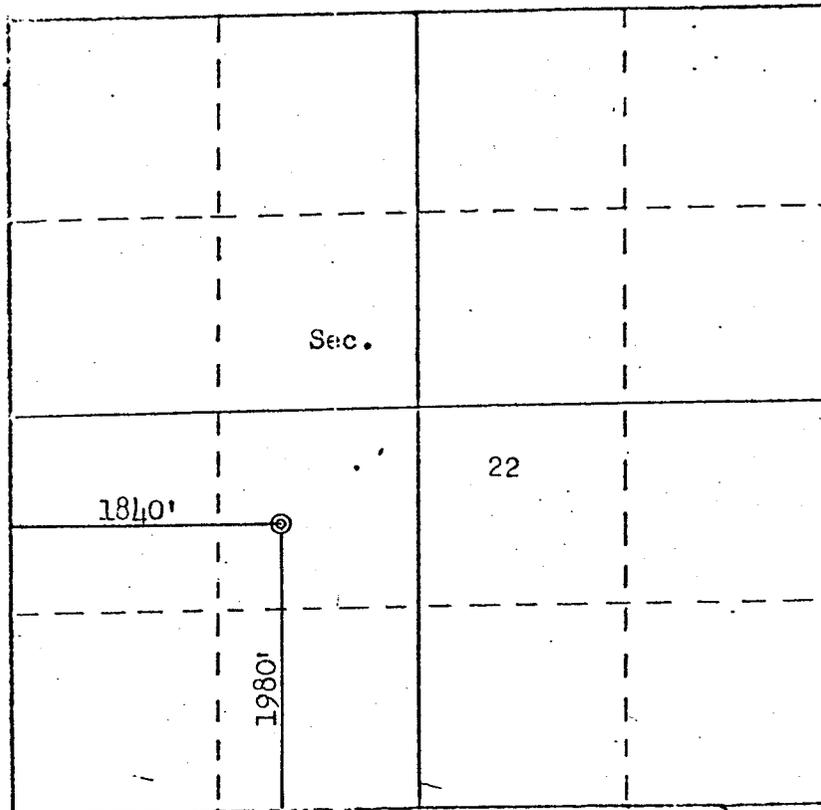
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA "L" WELL NO. 1

SEC. 22, T 37S, R 13E SLM
SAN JUAN COUNTY, UTAH

LOCATION 1980'FSL 1840'FWL

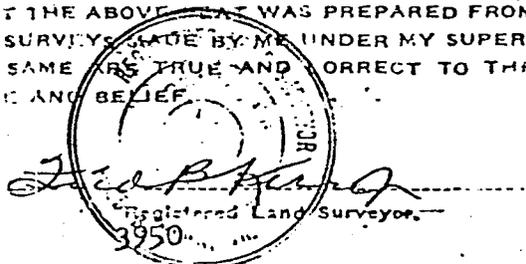
ELEVATION 5252 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:



SURVEYED March 4 19 82

SUPPLEMENTAL INFORMATION TO FORM 9-331C

USA Amoco "L" No. 1
 1980' FSL x 1840' FWL
 Section 22-T37S-R13E
 San Juan County, Utah

The geologic name of the surface formation is the Navajo. Estimated tops of important geologic markers and potential water, oil, or gas bearing formations:

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Navajo	Surface	5100'
Kayenta	100'	5000'
Wingate	400'	4700'
Chinle	700'	4400'
White Rim	1500'	3600'
Organ Rock	1600'	3500'
Cedar Mesa	2000'	3100'
TD	2100'	3000'

Estimated KB elevation: 5265'.

The well will be drilled from 0 - 400' using a low solids non dispersed mud system. The well will then be drilled from 400'-TD with Air.

Completion design will be based on the following logs: DIL-GR-SP; FDC-CNL-GR w/calip. BHC-Sonic-GR Dipmeter. The hole will need to be filled with drilling mud to run surveys.

If water is encountered before White Rim SS, then one Drill Stem Test will be needed.

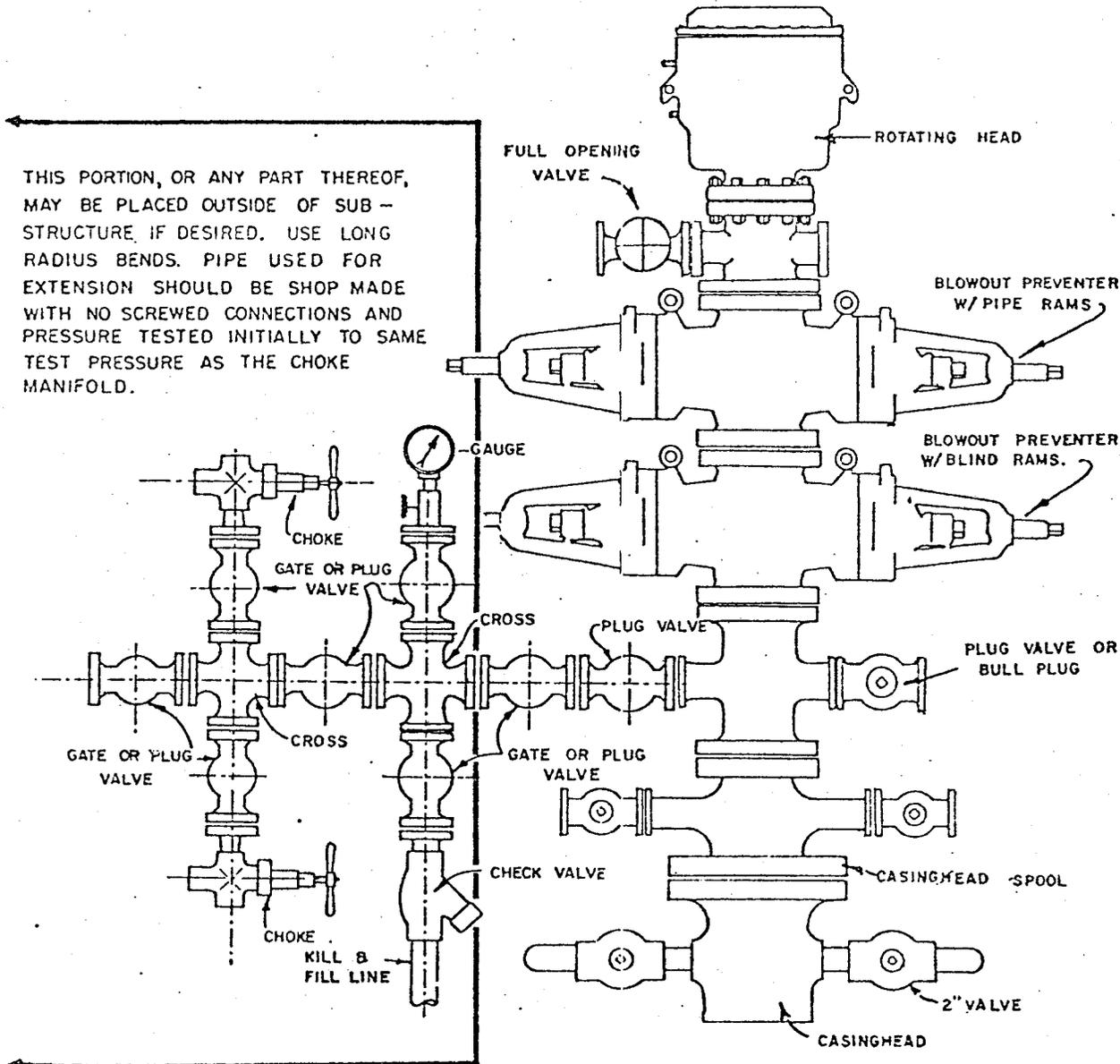
Operations will commence when permitted and last approximately 5 weeks.

60' of conventional core will be taken in the White Rim SS.

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

In the past, drilling in this area has shown that no abnormal pressures, temperature, 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

USA Amoco "L" No. 1
1980' FSL x 1840' FWL
Section 22-T37S-R13E
San Juan County, Utah

1. The attached topographic map shows the proposed route to the location.
2. It will be necessary to build an access road approximately 20' wide and 15,840' in length.
3. Existing oil and gas wells within a one-mile radius of our proposed well have been spotted on the lease road map. (None)
4. There is a 380-barrel tank and facilities located at (None).
5. Water will be hauled from Moqui Canyon.
6. No construction materials will be hauled in for this location.
7. A 100' by 100' 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 no airstrips or camps in the vicinity.
9. The well site layout, reserve, burn and trash pits are shown on the attached Drill Site Specification Sheet.
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, Monticello, Utah.
11. The general topography is solid sand stone covered with 3 feet to 4 feet of blow sand.

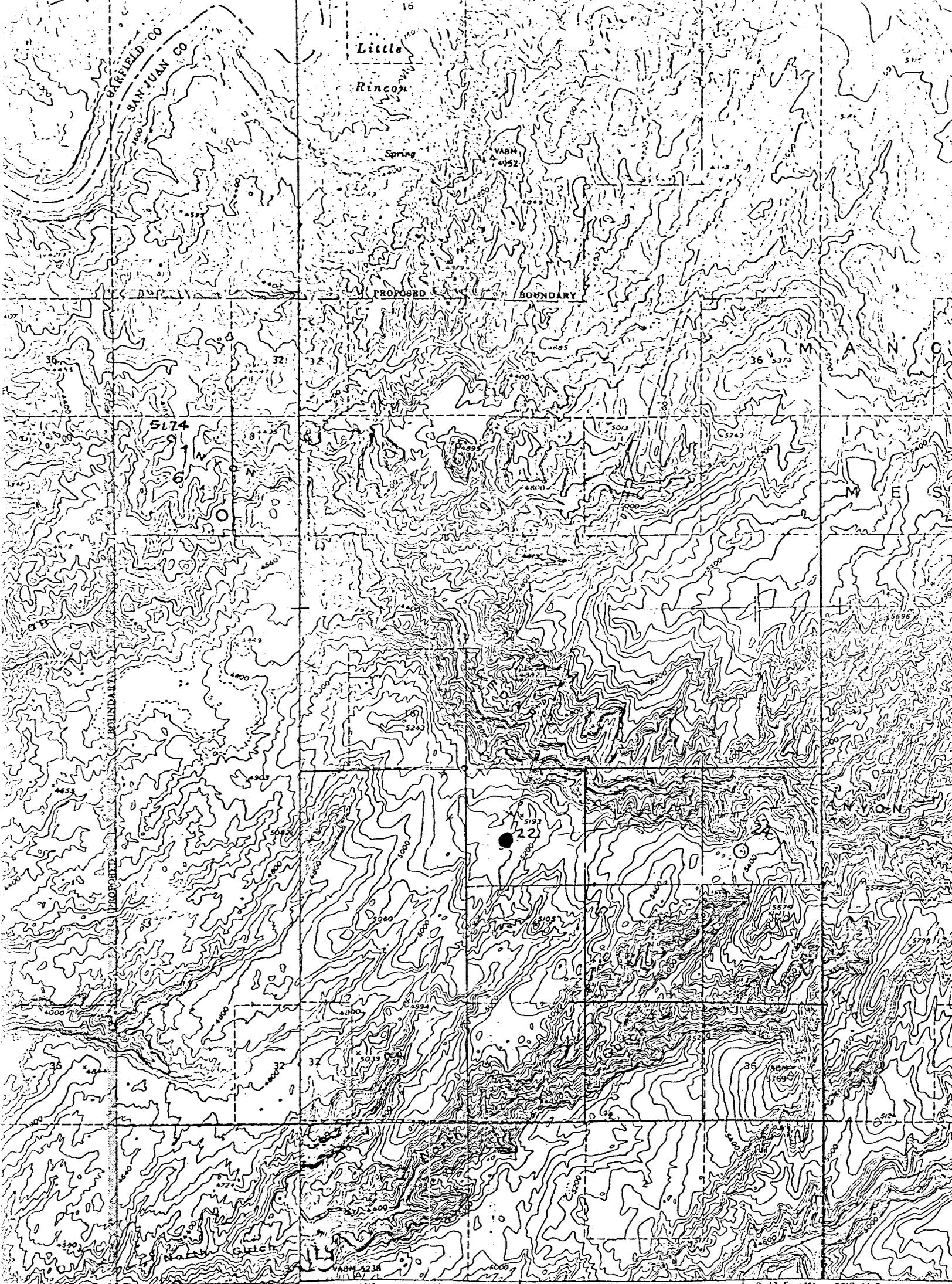
Representatives of the Minerals Management Service's Durango's office and the Bureau of Land Management - Monticello's office will inspect the site with Amoco personnel. Cultural resources inspection will be conducted by an archaeologist from Brigham Young University.

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 MAR 12 1982

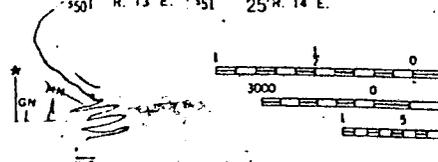

R. W. Schroeder, District Superintendent



© 1953 UNITED STATES GEOLOGICAL SURVEY, WASHINGTON, D. C. 20540
 110°30' 145 146 2 300 000 FEET 148 149 150 R. 13 E. 151 25 R. 14 E.

Mapped, edited, and published by the Geological Survey
 in cooperation with the Atomic Energy Commission

ROAD CLASSIFICATION Control by USGS



Unim
 Roads added after 1953, not filed

Vicinity Map for
 AMOCO PRODUCTION COMPANY #1 USA "L"
 1980' FSL 1840' FWL Sec. 22-T37S-R13E
 SAN JUAN COUNTY, UTAH

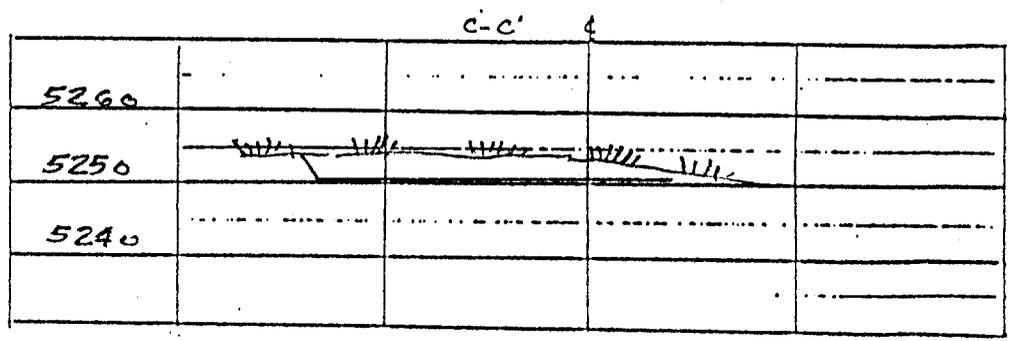
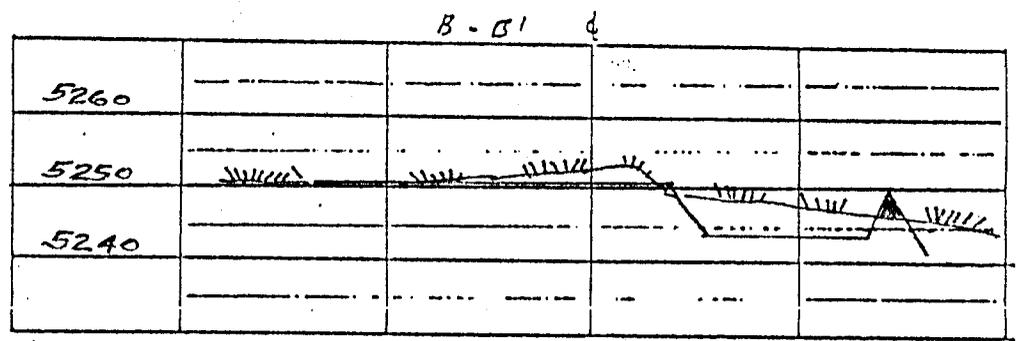
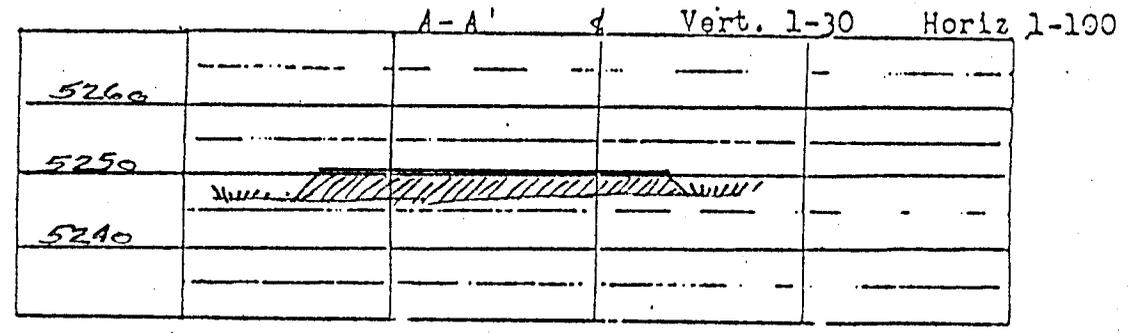
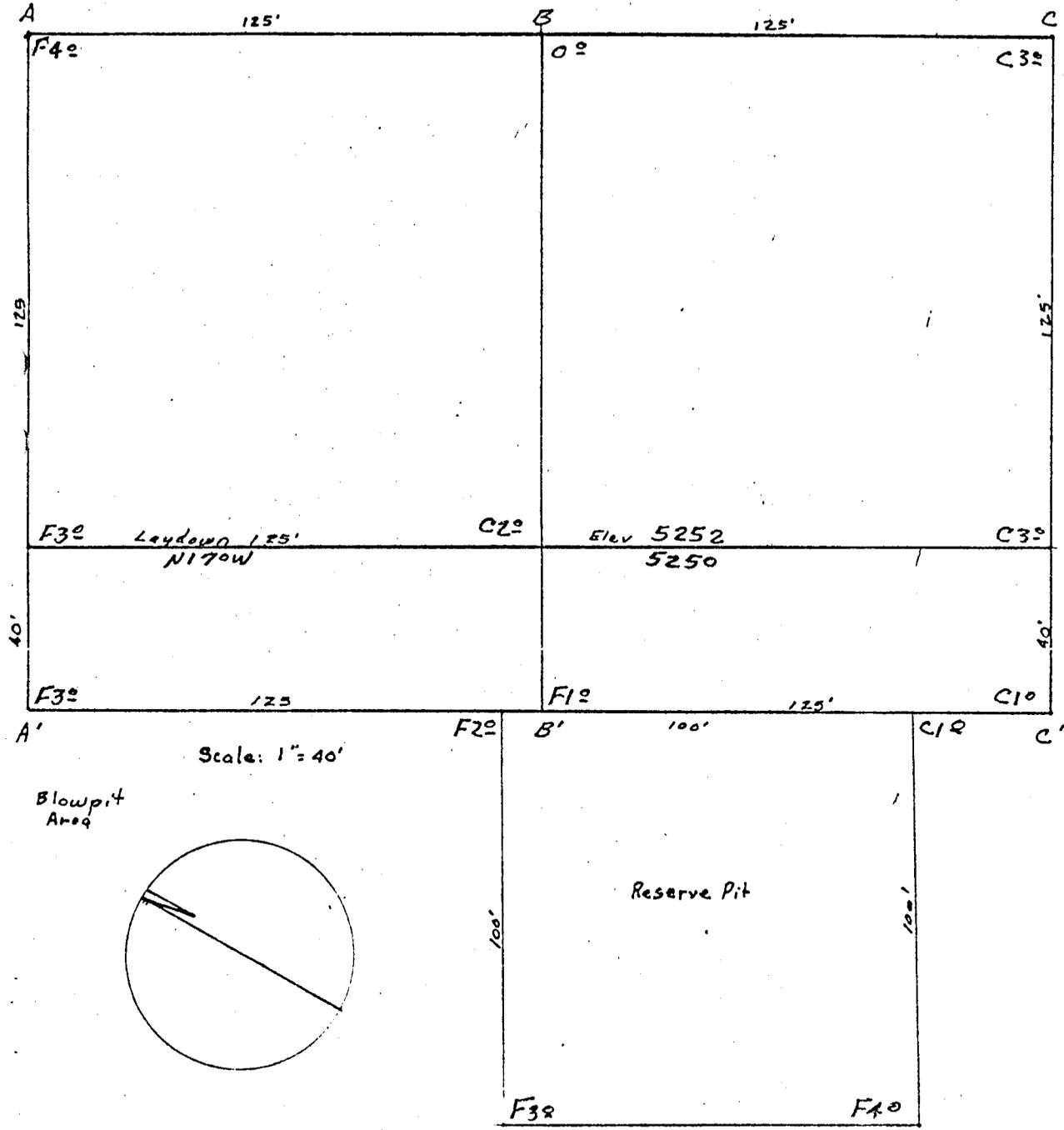
MT. ELLSV
 N3730-W11030/15

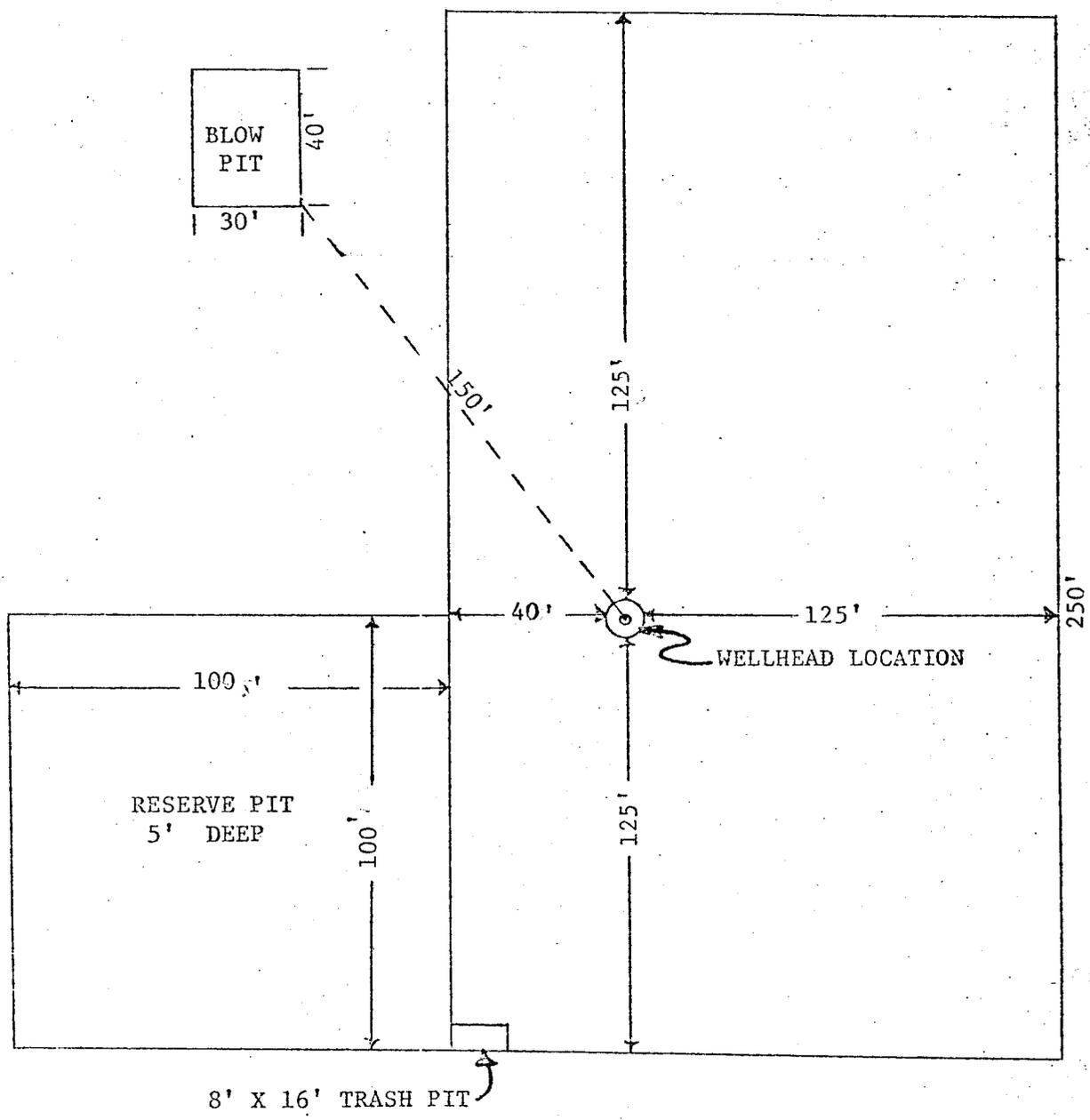
1953
 MINOR CORRECTIONS MADE 1970
 AMS 3859 II-SERIES V797

7C NORTH
 F SHEET

FOR SALE BY U. S. G.
 A FOLDER

Profile Map for
 AMOCO PRODUCTION COMPANY #1 USA "L"
 1980' FSL 1840' FWL Sec. 22-T37S-R13E SEM
 SAN JUAN COUNTY, UTAH





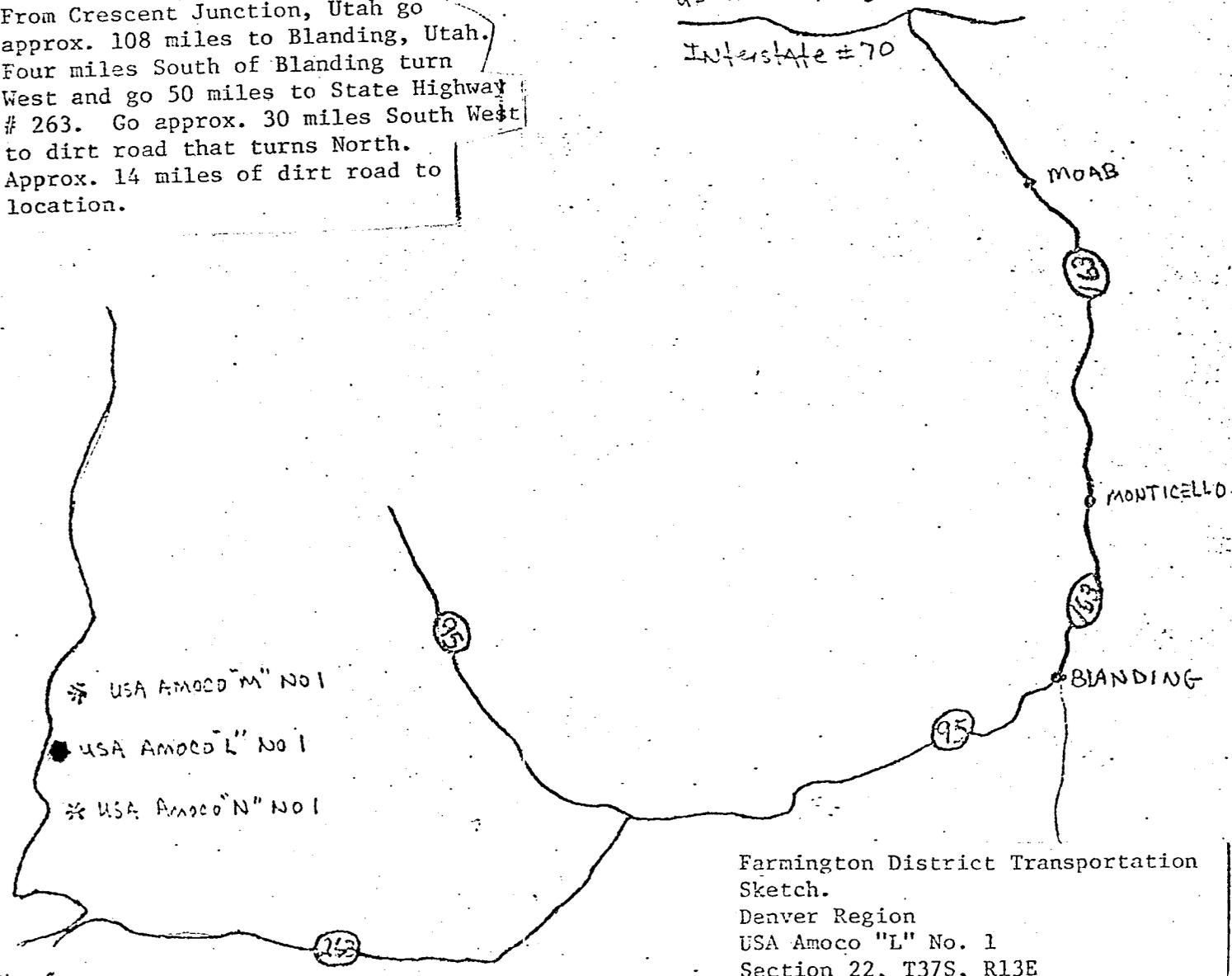
APPROXIMATELY 1.2 ACRES

Amoco Production Company	SCALE: 1"=40'
DRILLING LOCATION SPECIFICATIONS	
USA Amoco "L" No. 1	DRG. NO.



From Crescent Junction, Utah go approx. 108 miles to Blanding, Utah. Four miles South of Blanding turn West and go 50 miles to State Highway # 263. Go approx. 30 miles South West to dirt road that turns North. Approx. 14 miles of dirt road to location.

US HIGHWAY # 50
Interstate # 70



Farmington District Transportation Sketch.
Denver Region
USA Amoco "L" No. 1
Section 22, T37S, R13E
San Juan County, Utah
Amoco WI: 100%
Rail Point: Moab, Utah 206 miles
Mud Point: Moab, Utah 206 miles
Cement Point: Cortez, CO 181 miles

CONFIDENTIAL

** FILE NOTATIONS **

DATE: 3-16-82

OPERATOR: Amoco Production Co.

WELL NO: USA Amoco "L" #1

Location: Sec. 22 T. 37S R. 13E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-037-30764

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: & his per rule C-3

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Leh

Plotted on Map

Approval Letter Written

Hot Line

P.I.

March 19, 1982

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

RE: Well No. 1 - USA Amoco "L"
Sec. 22, T. 37 S, R. 13E
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas/oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

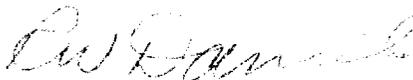
Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30769.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Ronald W. Daniels
Deputy Director

RWD/as
Encl.
cc: Minerals Mgt. Service

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 Wildcat

2. NAME OF OPERATOR
Amoco Production Company

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

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 2468' FNL x 2625' FWL
AT TOP PROD. INTERVAL: Same
AT TOTAL DEPTH: Same

5. LEASE
L-39579

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
USA Amoco "L"

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 22, T37S, R13E

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

14. API NO.
43-037-30769

15. ELEVATIONS (SHOW DF, KDB, AND WD)
5257' GL

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Location Change</u>		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Due to topographical problems encountered, Amoco Production Company hereby requests approval to change the location of the subject well from 1980' FSL X 1840' FWL, Section 22, T37S, R13E, San Juan County, Utah to a new location of 2468' FNL x 2625' FWL, Section 22, T37S, R13E, San Juan County, Utah. Attached are copies of a new plat, topographical map, and vicinity map. In as much as the new location is unorthodox, Amoco Production Company controls acreage within 660' of the proposed location.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED [Signature] TITLE Dist. Admin. Supvr DATE APR 2 1982

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

*See Instructions on Reverse Side

DATE: 4/9/82
BY: [Signature]

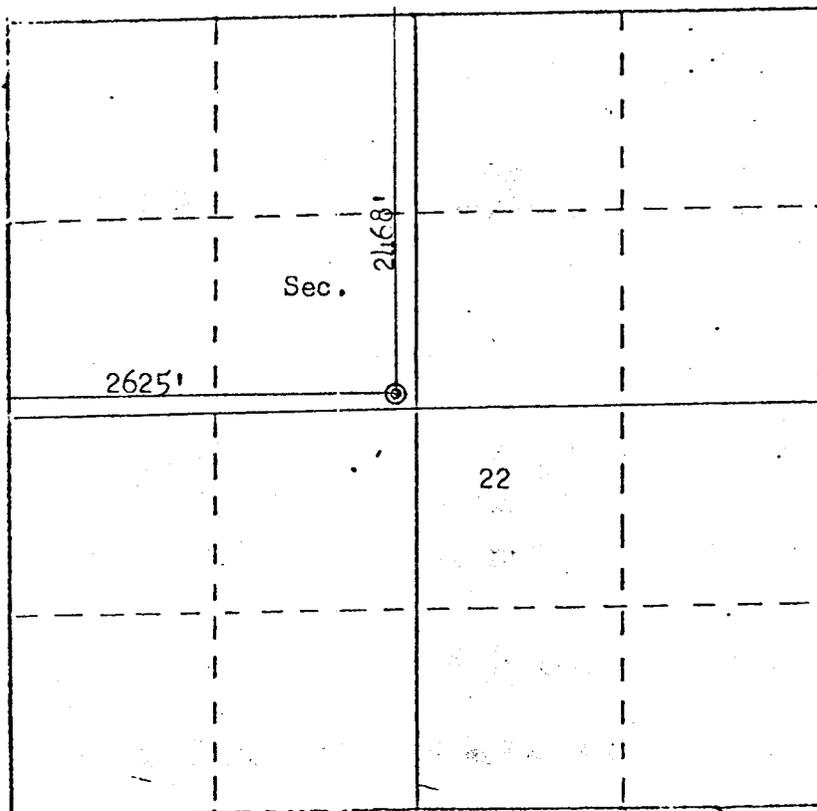
COMPANY AMOCO PRODUCTION COMPANY

LEASE USA "L" WELL NO. 1

SEC. 22, T. 37S, R. 13E
San Juan County, Utah

LOCATION 2468'FNL 2625'FWL

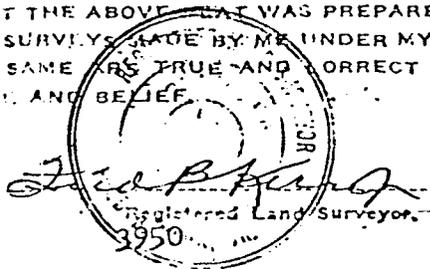
ELEVATION 5257 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF

SEAL:



SURVEYED March 23 1982

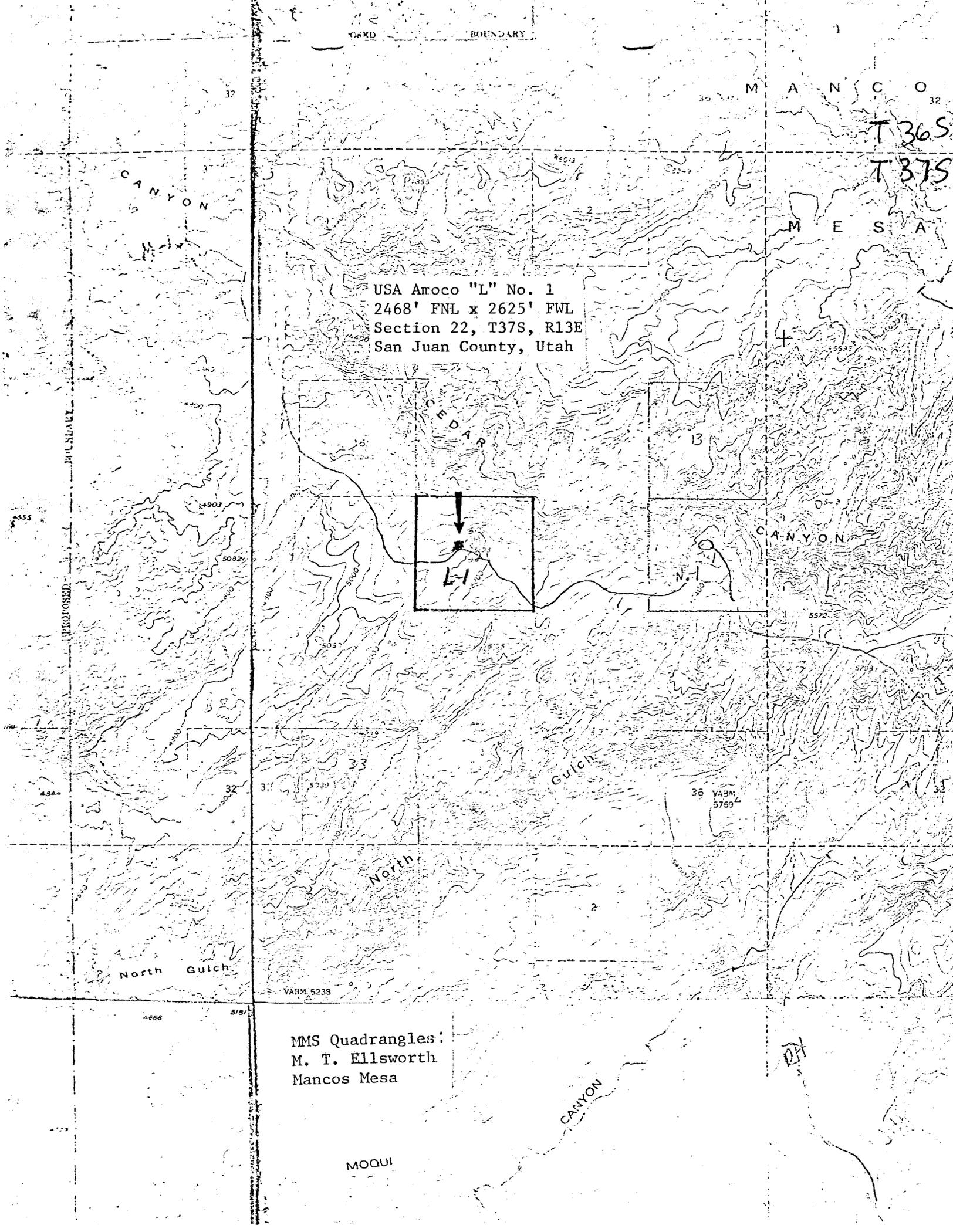
T 36 S
T 37 S

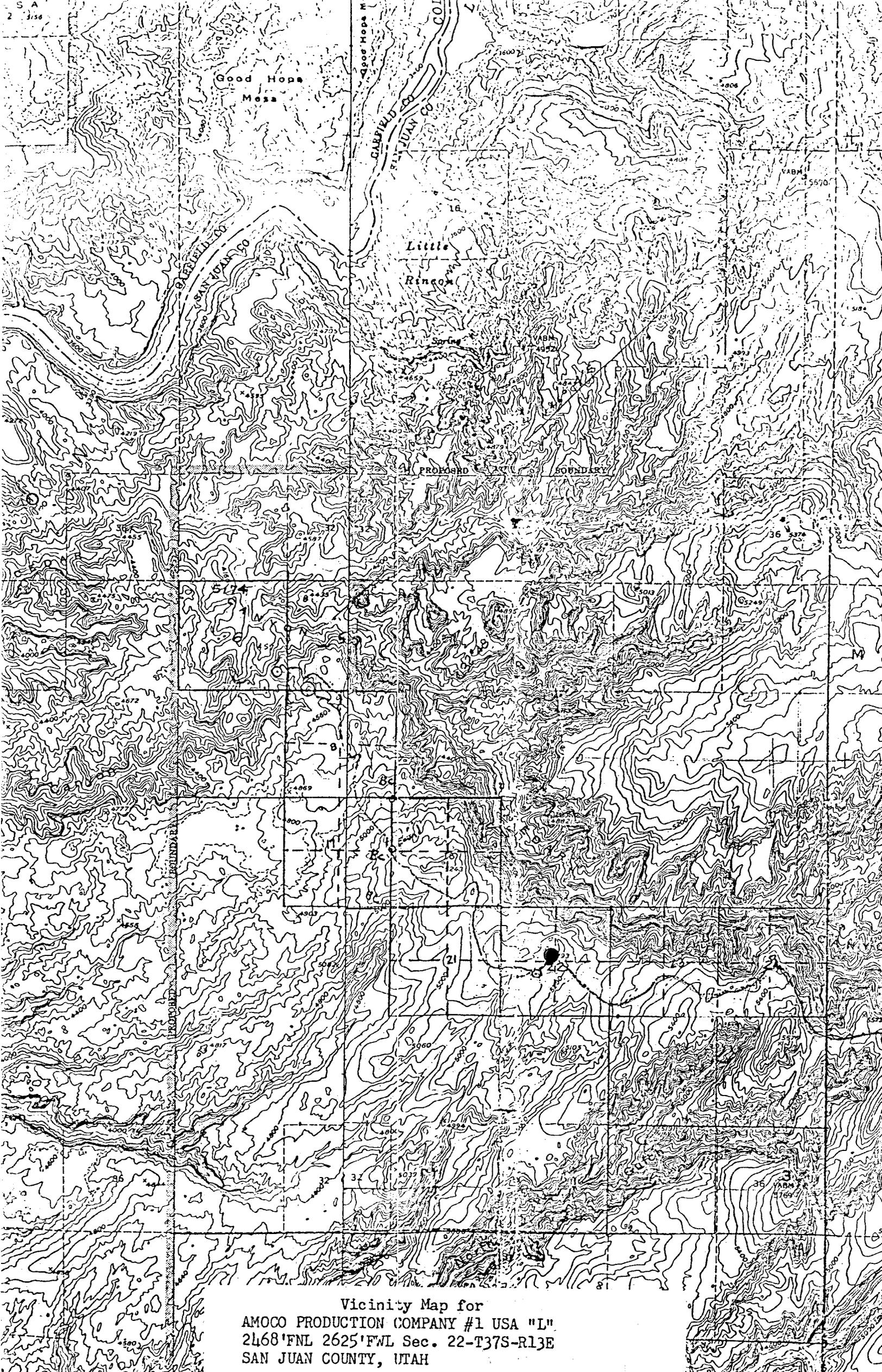
USA Amoco "L" No. 1
2468' FNL x 2625' FWL
Section 22, T37S, R13E
San Juan County, Utah



MMS Quadrangles:
M. T. Ellsworth
Mancos Mesa

MOQUI





Vicinity Map for
AMOCO PRODUCTION COMPANY #1 USA "L"
2468'FNL 2625'FNL Sec. 22-T37S-R13E
SAN JUAN COUNTY, UTAH

140 141 R 12 E R 13 E 142 143 144 230000 FEET 1 148 149 150 R 13 E 151 25 R 14 E

Mapped, edited, and published by the Geological Survey
in cooperation with the Atomic Energy Commission

Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

August 9, 1982

Amoco Production Company
501 Airport Drive
Farmington, New Mexico 87401

Attn: Mr. Wayne T. Peterson

Re: Applications for Permit to Drill
Well No. 1, USA Amoco "L" ✓
Section 22, T.37S., R.13E.
Well No. 1 USA Amoco "M" ✓
Section 5, T.37S., R.13E.
Well No. 1 USA Amoco "N" ✓
Section 24, T.37S., R.13E.
San Juan County, Utah
Oil and Gas Leases U-39579,
U-39585 and U-39582

Gentlemen:

The referenced Applications for Permit to Drill were received in this office March 15, 1982. The proposed wells and the entire leaseholds fall within the Mancos Mesa Wilderness Inventory Unit. This Unit was dropped from further "wilderness study" by the Bureau of Land Management (BLM) but, this decision is under appeal to the Interior Board of Land Appeals (IBLA) by certain environmental groups. The referenced leases were issued post Federal Land Policy and Management Act of 1976 (FLPMA). In this status, the area must be managed in a manner "so as not to impair the suitability of such areas as wilderness" and all proposals must meet the established "non-impairment" criteria as determined by the BLM.

The referenced proposals and all geologically feasible alternatives have been investigated by aerial and on-the-ground reconnaissance. Due to the presence of slick-rock, angled outcrops of sandstone and the predominance of the "difficult to restore" black brush in the area, a non-impairment finding for the proposals and alternatives could not be made. The Environmental Analysis process confirmed that the proposals and all alternatives considered could not offer non-impairment especially, for access routes to the proposed drill sites. There were, however, two alternative well sites that could meet non-impairment standards. An area void of black brush near the proposed "L" site, large enough to construct the drill site, could afford reasonable restoration potential capable of being non-impairing. Access, however, would require helicopter mobilization for the drilling and, possibly, the production activity. Amoco has determined that helicopter mobilization is not available nor feasible. The "N" site alternative, approximately 1500 feet northeast of the originally proposed site and at the end of an existing road,

State Oil & Gas

could also meet non-impairment standards. No access construction would be necessary. This alternative, however, as indicated by Amoco, is not geologically feasible. No non-impairing alternative for the "M" site was available.

Considerable time and effort has been expended in investigating the referenced proposals and alternatives. The proposals or any alternatives investigated do not meet the non-impairment criteria or do not appear viable or feasible. Accordingly, and with regrets, approval to the referenced Applications for Permit to Drill (APD's) is denied. Amoco has the following options:

1. Appeal the denial of the APDs under 30 CFR 290.
2. Apply for a Suspension of Operations and Production under 43 CFR 3103.3-8 until the appeal on the wilderness issue has been decided by IBLA, and then, with denial of the appeal, re-submit the APDs. The lease term and rentals are suspended with approval of the Suspension of Operations and Production.
3. Amoco investigates the area for other drill sites that would meet the non-impairment criteria and, if they can be found, submits other Applications for Permit to Drill. If Amoco locates these potential non-impairing sites and access routes, the Federal Agencies involved will investigate these alternative sites and roads for non-impairing possibilities. Black Brush and slick-rock must be avoided.

Sincerely,

E. W. Guynn
District Oil and Gas Supervisor

bcc: DMM, O&G, CR, Denver
BLM, Monticello
Don Englishman, ES, Durango
Craig Hansen, ES, Vernal
George Diwachak, ES, Salt Lake City
Well Files (3)
Lease Files (3)
STATE O&G ✓

EWG/kr

LA

August 12, 1982

Amoco Production Company
Attn: Mr. Wayne T. Peterson
501 Airport Drive
Farmington, New Mexico 87401

RE: Well No. 1, USA Amoco "L"
Sec. 22, T. 37S, R. 13E
Well No. 1, USA Amoco "M"
Sec. 5, T. 37S, R. 13E
Well No. 1 USA Amoco "N"
Sec. 24, T. 37S, R. 13E
San Juan County, Utah

Dear Mr. Peterson:

Approval of the referenced applications for Permit to Drill must be withdrawn effective the date of this letter in concert with denial of the federal applications.

Should Amoco later obtain federal approval to drill as requested, please re-submit for State of Utah approval.

Respectfully,



Norm Stout
Administrative Assistant

NS/as
cc: Minerals Management Service