

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT(Other instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0136
Expires February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM 078194	
1b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6 IF INDIAN, ALLIOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Conoco Inc.		7 UNIT AGREEMENT NAME Ludwick LS	
3. ADDRESS AND TELEPHONE NO. 10 Desta Dr. Ste 430E, Midland, Tx. 79705-4500		8. FARM OR LEASE NAME WELL NO. 13B	
4. LOCATION OF WELL (Report location clearly and in accordance with any State Requirements) At surface 660' FNL & 2600' FEE		9. API WELL NO. 30-045-30136	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE At proposed prod. zone 660' FNL & 2600' FEE		10. FIELD AND POOL, OR WILDCAT Blanco Mesa Verde	
5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drive, unit line, if Any)		11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA B Sec. 5, T29N, R10W	
6. DISTANCE FROM PROPOSED* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		12. COUNTY OR PARISH San Juan	
16. NO. OF ACRES IN LEASE 29.5		13. STATE NM	
17. PROPOSED DEPTH 5450'		18. NO. OF ACRES ASSIGNED TO THIS WELL 297.66	
20. ROTARY OR CABLE TOOLS Rotary		21. APPROX. DATE WORK WILL START* 3/1/00	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5881'			

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	WC-50, 9-5/8"	32.5#	250'	145 sxs, circ.
8-3/4"	WC-50, 7"	20#	1865'	235 sxs, circ.
6-1/4"	WC-50, 4-1/2"	10.5#	5100'	360 sxs, tol @ 1665'

It is proposed to drill a vertical wellbore to the Blanco Mesaverde Pool. An NOS was filed 10/11/99. The well will be drilled and equipped according to the following additional attachments:

1. Well Location & Acreage Dedication Plat (C-102).
2. Proposed Well Plan Outline.
3. Cementing Plan.
4. Blowout Preventer Hookup.
5. Surface Use Plan with Production Facility layout.
6. Temporary Pipeline Tie Specifications.

This action is subject to technical and
procedural review pursuant to 43 CFR 3105.3
and appeal pursuant to 43 CFR 3105.4.

This application includes ROW's for the well pad, road access and pipeline.

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS"

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen 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. Jo Ann Johnson Jo Ann Johnson
INITIALS TITLE Sr. Property Analyst DATE 2/4/00
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

NMOC

APPROVED BY /s/ Charlie Beecham TITLE Team Lead, Petroleum Management DATE MAR 20 2000

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OKCTP

1246.08'

LOT 8

LOT 7

5290.56'

660'

2600'

LOT 6

LOT 5

1225.62'

1213.08'

LOT 9

LOT 10

LOT 11

LOT 12

11.29.99

DATE

5

LOT 16

LOT 15

LOT 13

LOT 17

LOT 18

LOT 19

LOT 20

2459.82'

2426.82'

5243.04'

17 OPERATOR CERTIFICATION

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

Mike L. Mankin

Signature

Mike L. Mankin

Printed Name

Right-of-Way Agent

Title

11.29.99

Date

18 SURVEYOR CERTIFICATION

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 belief.

OCTOBER 16, 1999

Date of Survey

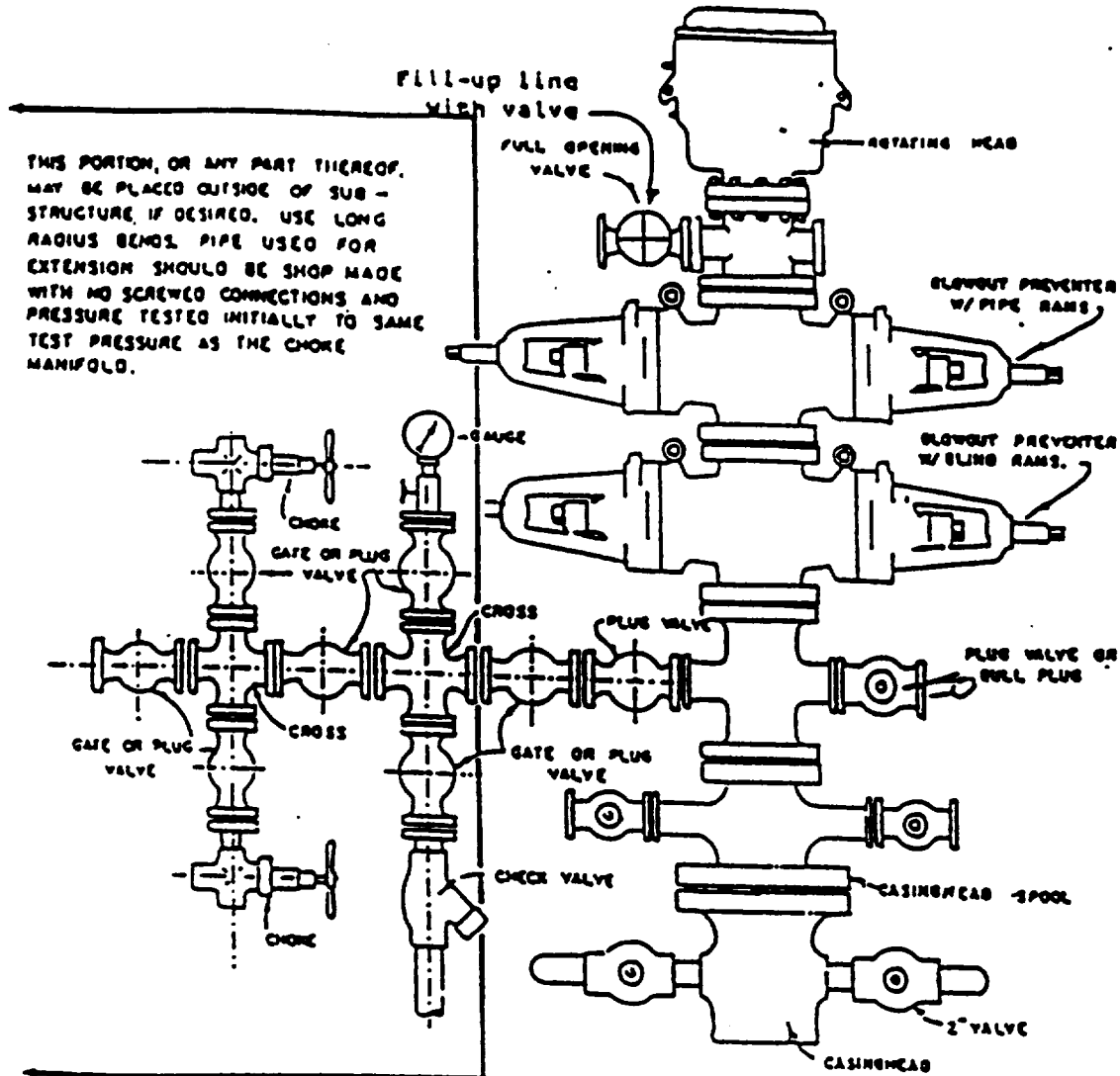
NEALE C. EDWARDS

Signature and Seal

NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number 6857

RECEIVED
MAY 2000
OIL CON. DIV.
DIST. 3



BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached BOP diagram details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows the deletion of the annular preventor and fulfills your requirements (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

1. Two rams with one blind and one pipe ram.
2. Kill line (2 inch maximum).
3. One kill line valve.
4. One choke line valve.
5. Two chokes (reference diagram No. 1).
6. Upper kelly cock valve with handle.
7. Safety valve and subs to fit all drill strings in use.
8. Two-inch minimum choke line.
9. Pressure gauge on choke manifold.
10. Fill-up line above the upper most preventor.
11. Rotating head.

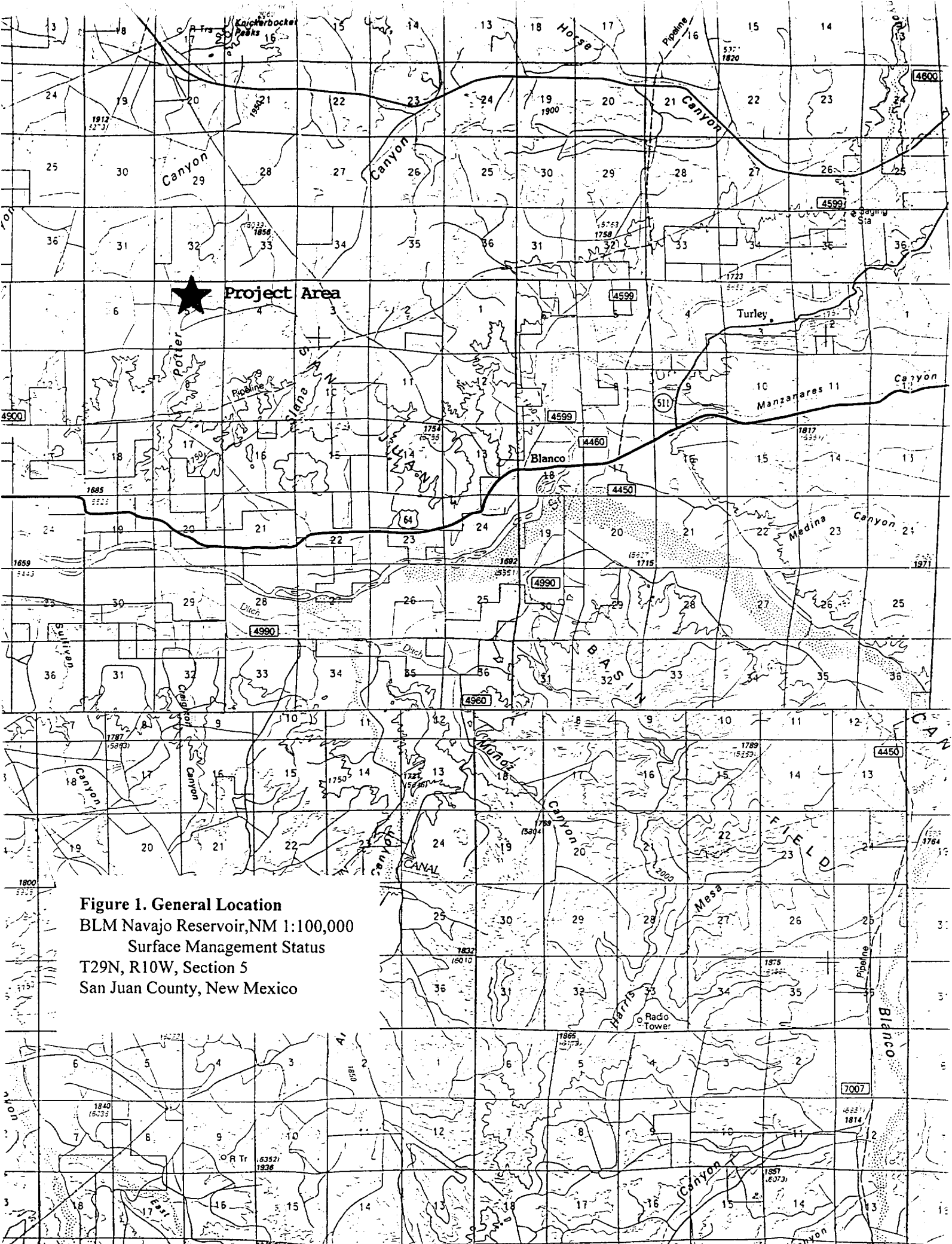
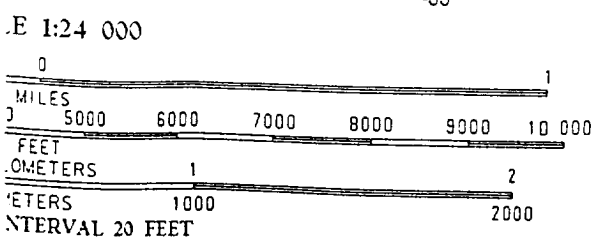
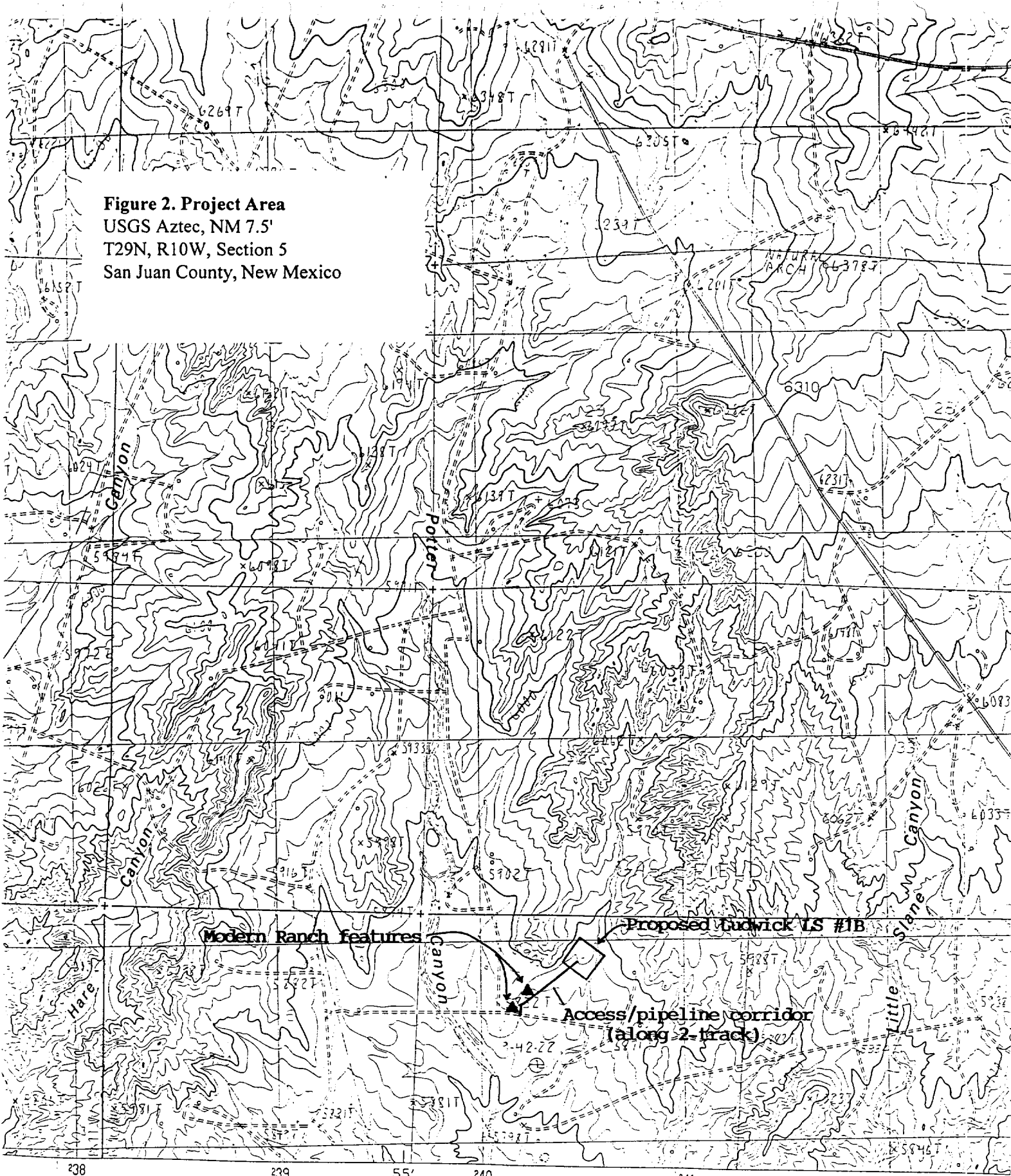


Figure 2. Project Area
 USGS Aztec, NM 7.5'
 T29N, R10W, Section 5
 San Juan County, New Mexico



1	2	3	4 Adobe Downs Ranch
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Improved Road
 Unimproved Road
 Trail
 () Interstate Route