

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL ☐

GAS ☒

OTHER

SINGLE ☒

MULTIPLE ☐

2. NAME OF OPERATOR

ENERGEN RESOURCES CORPORATION

3. ADDRESS AND TELEPHONE NO.

2198 Bloomfield Highway; Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. \*)  
At surface

2360' FSL, 345' FWL  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

Eight (8) Miles NE of Gobernador, New Mexico

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

345'

16. NO. OF ACRES IN LEASE

640

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

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

2000'

19. PROPOSED DEPTH

4879'

20. ROTARY OR CABLE TOOLS

Rotary

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

7682' GR

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	36#	200'	130 cu. ft., circ. to surface
7 7/8"	4 1/2"	10.5#	4879	1668 cu. ft., 2 stages

This action is subject to technical and  
procedural review pursuant to 43 CFR 3166.3  
and appeal pursuant to 43 CFR 3165.4.

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

Selectively perforate and sand water fracture the Pictured Cliffs Formation.  
This gas is dedicated.  
A Williams Field Service Pipeline ROW Plat is attached.

THIS IS AN EXPEDITED APD.

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.

SIGNED

*John Graham*

TITLE

Drilling & Completion Foreman

DATE

12-7-00

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

4/7/02

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:

/s/ David J. Mankiewicz

APPROVED BY

TITLE

AFM

DATE

4/9/02

\*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.

NMOCD

District II  
PO Drawer 00, Artesia, NM 88211-0719

OIL CONSERVATION DIVISION

PO Box 2088  
Santa Fe, NM 87504-2088

Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

200 DEC -7 PM 1:53

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30039-26609</b>	*Pool Code 72400	*Pool Name East Blanco Pictured Cliffs
*Property Code <b>21994</b>	*Property Name SAN JUAN 30-4 UNIT	*Well Number 50
*GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION	*Elevation 7682'

10 Surface Location

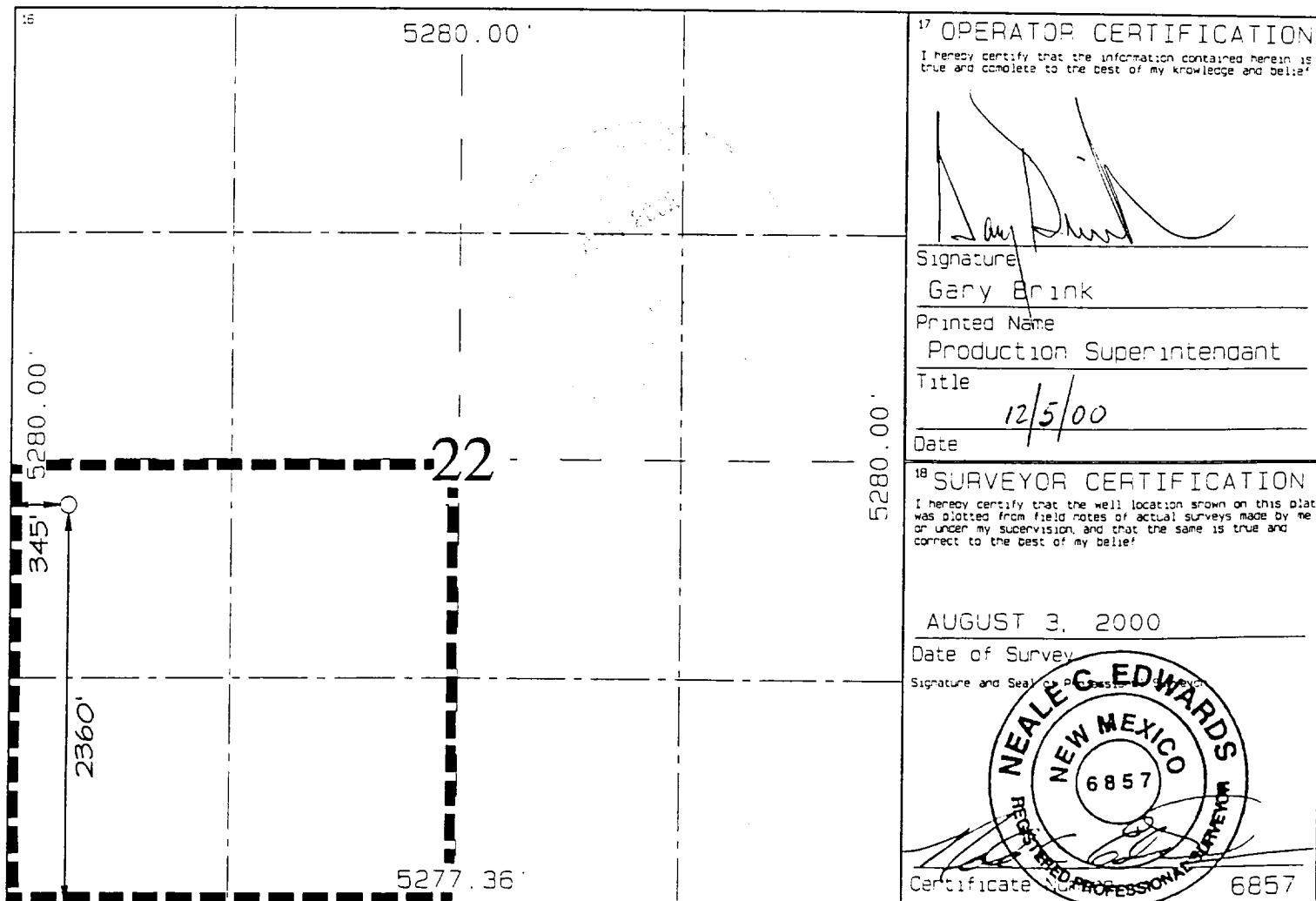
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	30N	4W		2360	SOUTH	345	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 160	13 Joint or Infill	14 Consolidation Code	15 Order No.
---------------------------	--------------------	-----------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

*[Signature]*

Signature

Gary Brink

Printed Name

Production Superintendant

Title

12/5/00

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.

AUGUST 3, 2000

Date of Survey

Signature and Seal of Professional Surveyor

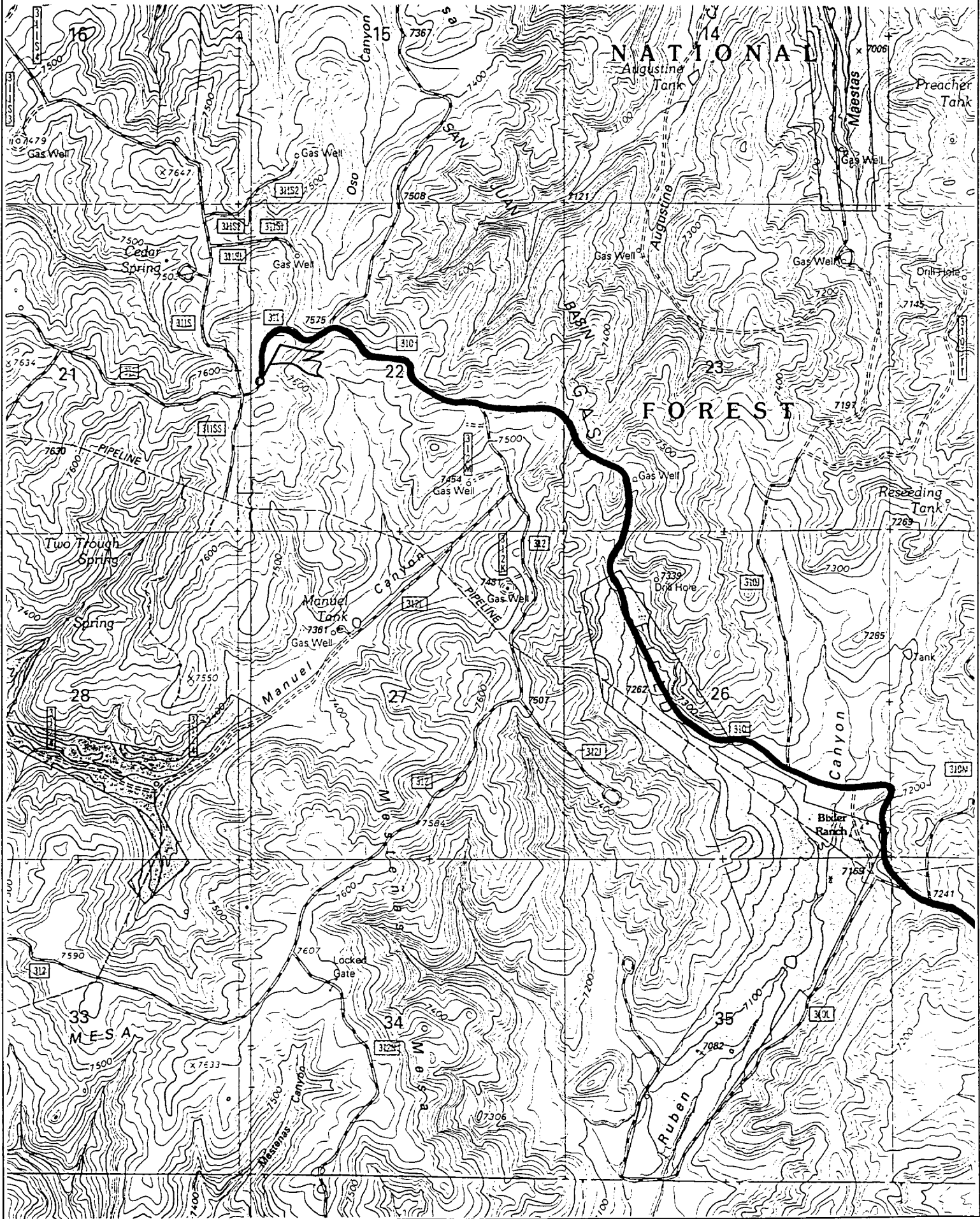
*[Signature]*

NEALE G. EDWARDS  
NEW MEXICO  
6857  
REGISTERED PROFESSIONAL SURVEYOR  
Certificate 6857

# ENERGEN RESOURCES CORPORATION SAN JUAN 30-4 UNIT #50

2360' FSL & 345' FWL, SECTION 22, T30N, R4W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO



## OPERATIONS PLAN

WELL NAME: San Juan 30-4 Unit #50

LOCATION: 2360' FSL, 345' FWL, Section 22, T30N, R4W, Rio Arriba County, NM

FIELD: East Blanco Pictured Cliffs

ELEVATION: 7682' GL

### FORMATION TOPS:

Surface	San Jose
Nacimiento	2589
Ojo Alamo	3844
Kirtland	4069
Fruitland	4249
Pictured Cliffs	4429
Lewis	4774
Total Depth	4879

### LOGGING PROGRAM:

Open Hole Logs:

Surface to TD: HRI/SP/GR, CNT/LDT/MLT

Mud Logs: 200' above Ojo Alamo to total depth

Coring: None

Natural Gauges: None

MUD PROGRAM: Fresh water low solids mud from surface to T. D. 9.0-9.2 PPG.

### CASING PROGRAM:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG SIZE</u>	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	36#	J-55
7 7/8"	4879'	4- 1/2"	10.5#	J-55

### TUBING PROGRAM:

4800	2-3/8"	4.7#	J-55
------	--------	------	------

WELLHEAD: 9 5/8" 2000 x 4 1/2" Larkin Fig. 92 casing head. 4 1/2" 2000 x 2" tubing head.

### BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

### CEMENTING:

9 5/8" surface casing - Cement with 110 sks Class B Cement with 1/4# flocele/sk and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom.

4 1/2" production casing:

First Stage - cement with 185 sks Class B with 2% Calcium Chloride, 10% Gilsonite and 1/4# flocele/sks (233 cu. ft. of slurry, 50% excess to circulate stage tool @ 4200).

Second Stage - cement with 745 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 50 sks Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (1436 cu. ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 3rd joint off bottom. One bow spring centralizer below and eight above stage tool at 3700. Two turbolating centralizers at the base of the Ojo Alamo.

### OTHER INFORMATION:

- 1) No abnormal temperatures or pressures are anticipated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 3) This gas is dedicated.
- 4) Anticipated pore pressure for the Fruitland is 900 psi and the Pictured Cliffs is 1000 psi.