

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1425.

30-043-24435-

## 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

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☒

## 2. NAME OF OPERATOR

Southland Royalty Company 21281

## 3. ADDRESS OF OPERATOR

P. O. Drawer 570, Farmington, NM 87401

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

At surface

D ~~1620' FNL & 980' FNL~~ 1190 W / 1190 W

At proposed prod. zone

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

Approximately 1 1/2 miles NW of Bloomfield, NM

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

980'

## 16. NO. OF ACRES IN LEASE

617.80

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

4035'

## 19. PROPOSED DEPTH

6435'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

W/ 320 + 160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

5623' GR

## 22. APPROX. DATE WORK WILL START\*

January 31, 1980

## 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"	24#	200'	140 sacks
7 7/8"	5 1/2"	15.5#	6435'	152 sacks (Stage One)
				253 sacks (Stage Two)
				165 sacks (Stage Three)

Surface formation is Nacimiento.

Top of Ojo Alamo sand is at 935'.

Top of Pictured Cliffs sand is at 1780'.

Fresh water mud will be used to drill from surface to total depth.

It is anticipated that an IES and a GR-Density log will be run from total depth to surface casing.

No abnormal pressures or poisonous gases are anticipated in this well.

It is expected that this well will be drilled before July 31, 1980. This depends on time required for approval, rig availability and the weather.

Gas is deaerated.

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 casing depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE District Production Manager DATE 10-31-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

APPROVED  
AS AMENDEDJUN 30 1980  
James F. Smith  
DISTRICT ENGINEER

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

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

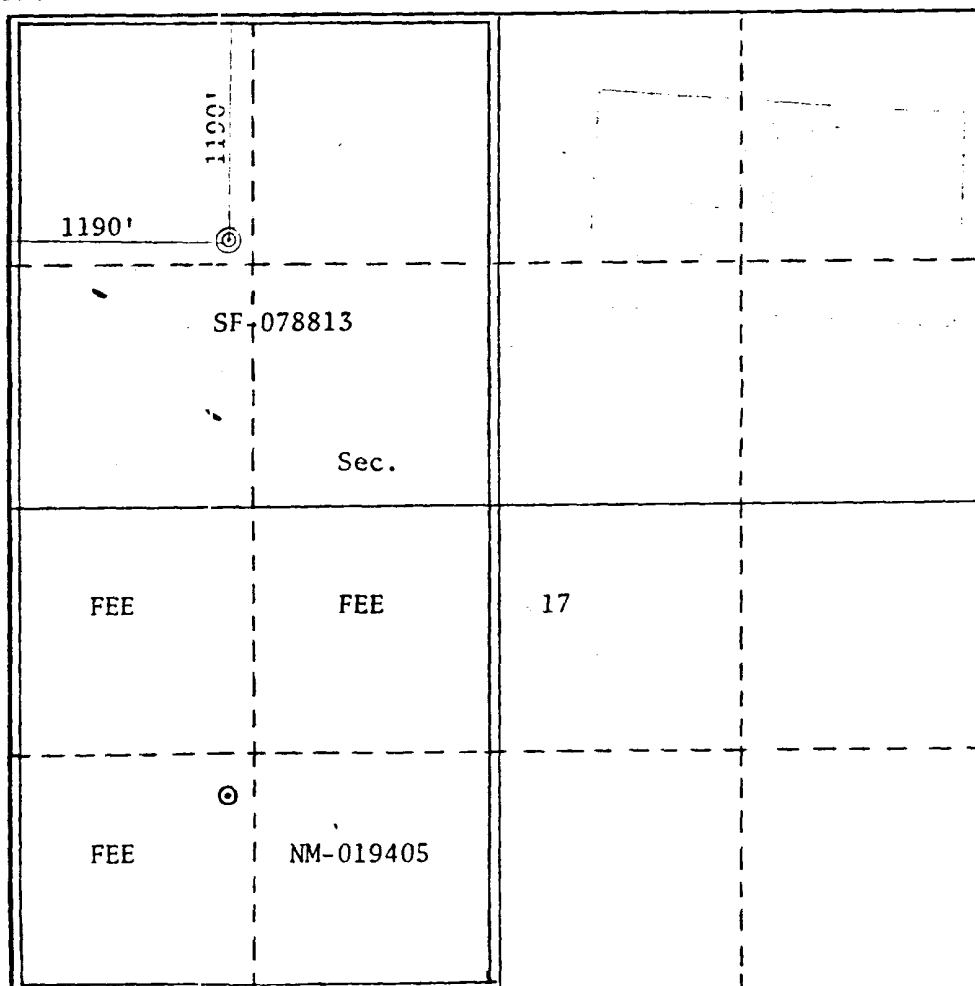
Operator <b>Southland Royalty Company</b>			Lease <b>McDaniel "B"</b>		Well No. <b>#1E</b>
Unit Letter <b>D</b>	Section <b>17</b>	Township <b>29N</b>	Range <b>11W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span>1190'      North      line and      1190'      West      line</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Ground Level Elev: <b>5623' GR</b></span> <span>Producing Formation <b>Dakota/Pictured Cliffs</b></span> <span>Pool <b>Basin/Blanco</b> <i>Fulcher-Kent E &amp; J</i></span> <span>Dedicated Acreage: <b>320 + 160</b> Acres</span> </div>					

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.



**CERTIFICATION**

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

*Curtis C. Parsons*

Name

**Curtis C. Parsons**

Position

**District Engineer**

Company

**Southland Royalty Company**

Date

**May 20, 1980**

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

Registered Professional Engineer  
and/or Land Surveyor

Certificate No.

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 ☐ gas ☒  
well ☐ well ☒ other2. NAME OF OPERATOR  
Southland Royalty Company3. ADDRESS OF OPERATOR  
P. O. Drawer 570, Farmington, NM 874014. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1190' FNL & 1190' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Re-Stake ☒

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐5. LEASE  
SF-078813

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
McDaniel "B"9. WELL NO.  
#1E10. FIELD OR WILDCAT NAME  
Basin Dakota  
Blanco Pict. Cliffs11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 17, T29N, R11W12. COUNTY OR PARISH  
San Juan13. STATE  
New Mexico

14. API NO.

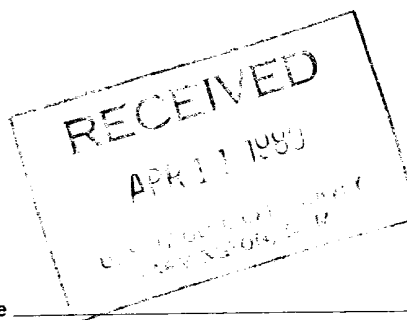
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5624' GR

(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.)\*

Southland Royalty Company proposes to re-stake the well site from  
1620' FNL & 980' FWL to 1190' FNL & 1190' FWL.

(SEE ATTACHED)



ACCEPTED FOR RECORD

MAY 16 1980

FARMINGTON DISTRICT

BY

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

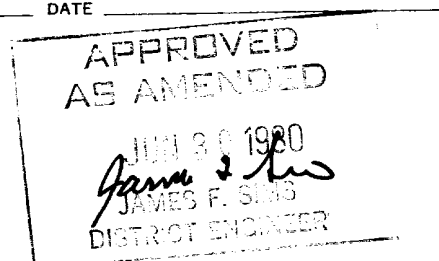
SIGNED TITLE District Engineer DATE 4-10-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

NMOCG



CLEARANCE FOR NECESSARY  
CONVEYING AND STAKING HEREBY APPROVED



Southland Royalty Company

Mildred L. Kuchera DATE 3-14-80

Utilizing an existing location minimizes surface damage & is approved even though the location violates the 200' rule.  
March 12, 1980

Mr. James F. Sims  
United States Geological Survey  
P. O. Box 959  
Farmington, NM 87401

RE: McDaniel "B" #1E  
1620' FNL & 990' FWL  
Sec. 17, T29N, R11W  
San Juan County, NM

Dear Mr. Sims:

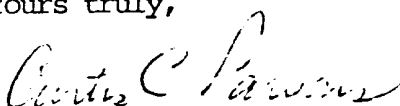
In order to minimize surface damage and conform to the surface owners wishes, we hope you will consider granting us permission to re-stake the above referenced well to another drill pad site which already exists in the same quarter of section 17. This second location was built after approval was granted to drill a Pictured Cliffs well in April, 1975, the Barnhart #2. Aztec Oil and Gas Company, our predecessor, was unable to unitize all of the interest owners in this acreage into drilling a marginally economic well at that time and this well has remained under evaluation since then.

We were not aware of the close proximity to the Barnhart #2 site when we first asked permission to stake the McDaniel "B" #1E well and it only came to our attention when one of our company representatives went out to inspect the new location.

We feel that utilizing the already existing drill pad will be beneficial to all parties involved, in that it's use will cause the least amount of environmental impact. It will also enable the surface owner to utilize more of his property for whatever desires he has and it will let us procede with our drilling program more rapidly.

We, therefore, ask you to grant us permission to move the McDaniel "B" #1E from it's current position, as noted above, to the location selected for the Barnhart #2 which is 1190' FNL & 1190' FWL, Section 17, T29N, R11W, San Juan County, New Mexico.

Yours truly,

  
Curtis C. Parsons  
District Engineer

RECEIVED

APR 1 1980

FARMINGTON DISTRICT

BJM/ke

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

M c D A N I E L " B " # 1 E  
1620' FNL & 980' FWL  
Section 17, T29N, R11W  
San Juan County, New Mexico

Field: Basin Dakota/Blanco Pictured Cliffs

Elevation: 5623' GR

Geology: Formation Tops

Ojo Alamo	935'	Gallup	5390'
Fruitland	1490'	Graneros	6185'
Pictured Cliffs	1780'	Dakota	6285'
Cliff House	3360'	Total Depth	6435'
Point Lookout	4125'		

Logging Program: IES and GR-Density from Total Depth to surface casing.

Coring Program: None

Natural Gauges: None

Drilling:

Contractor

Tool Pusher:

SRC Ans. Svc.: 325-1841

SRC Representative:

SRC Dispathc: 325-7391

Mud Program: Fresh water to 5300'. Fresh water mud from 5300' to TD.  
Maintain mud weight of 8.9-9.5; vis. of 35-40 sec.; water  
loss of 10-12 cc.

Materials:

Casing Program:	Hole Size	Depth	Casing Size	Wt. & Grade	
	12 1/4"	200'	8 5/8"	24#	H-40
	7 7/8"	6435'	5 1/2"	15.5#	K-55

Float Equipment:

8 5/8" Surface Casing: Pathfinder type "A" guide shoe.

5 1/2" Production Casing: Pathfinder type "A" guide shoe. Self-fill flapper  
type float collar run 1 joint off bottom. 5 Path-  
finder bow type stabilizers (run every other joint  
from shoe). Run Dowell stage tools at 4525' and  
1880'. Run 1 cement basket below and 5 Pathfinder  
rigid stabilizers above each tool.

Wellhead Equipment:

8 5/8" x 10", 2000# braden head with 5 1/2" casing hanger.

10", 2000# x 6", 2000# tubing head and tree.

Cementing:

8 5/8" Surface Casing: 140 sacks (165 cu. ft.) of Class "B" with 1/4# gel flake per sack and 3%  $\text{CaCl}_2$ . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

5 1/2" Production String: STAGE ONE - 152 sacks (226 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack, followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 25% excess to cover top of Gallup.)

STAGE TWO - 203 sacks (303 cu. ft.) of 50/50 Poz with 6% gel, followed by 50 sacks of neat with 2%  $\text{CaCl}_2$ . (Volume is 50% to cover top of Cliff House.)

STAGE THREE - 165 sacks (246 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

---

L. O. Van Ryan  
District Production Manager



**Southland Royalty Company**

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87401

Attention: James Sims

Dear Sir:

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 be performed by Southland Royalty Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: October 31, 1979

Name: 

Title: District Production Manager



**Southland Royalty Company**

October 31, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico

Attention: James Sims

Re: Blowout Preventer Plan

Dear Sir:

All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic closing unit with steel lines.

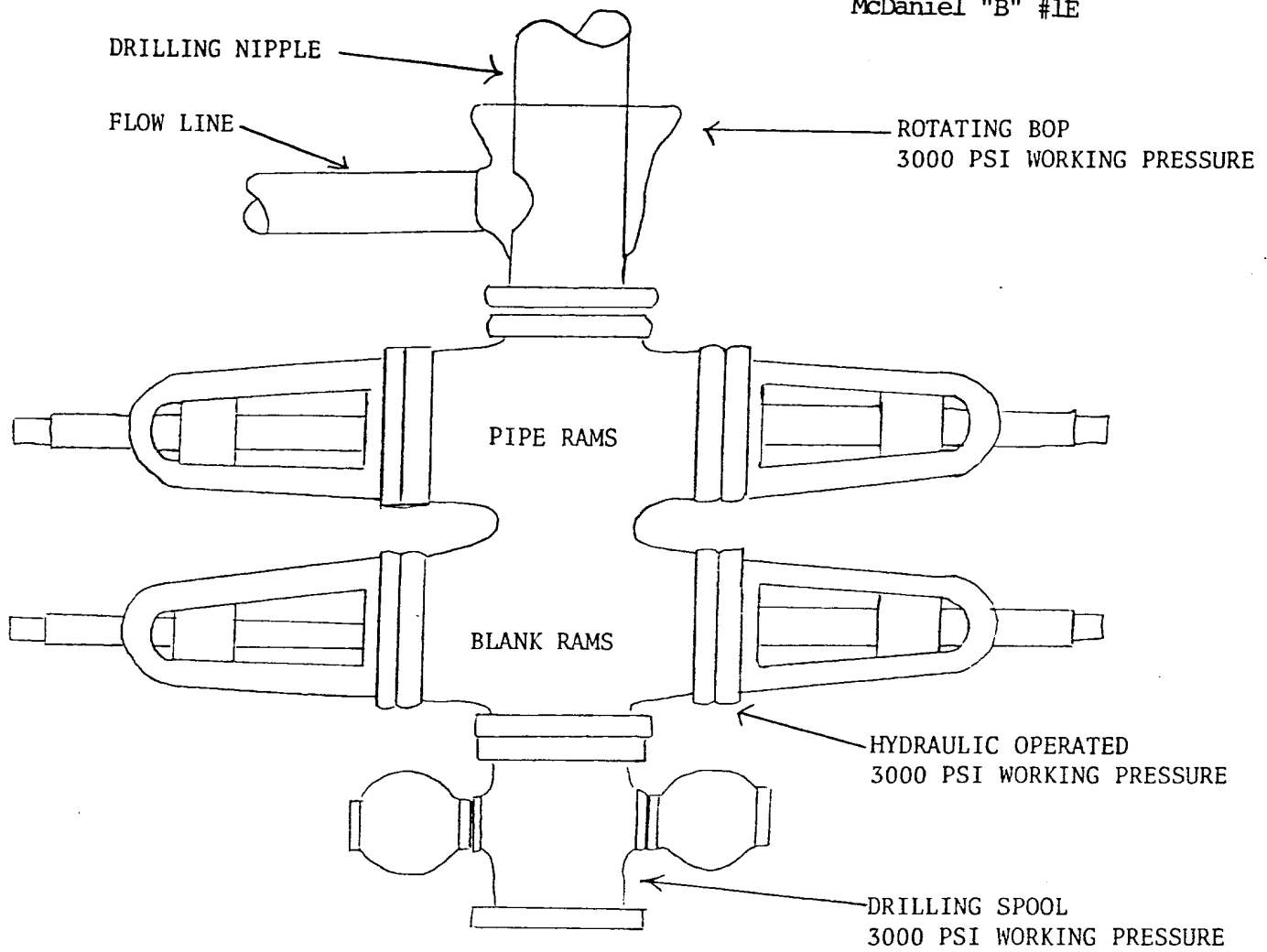
The preventer is 3000# working pressure and 6000# test.

All crews will be thoroughly trained in the operation of this preventer. The preventer will be tested frequently enough to insure proper operation.

Yours truly,

L. O. Van Ryan  
District Production Manager





PREVENTERS AND SPOOLS ARE TO HAVE  
THROUGH BORE OF 6" - 3000 PSI OR LARGER



**Southland Royalty Company**

October 31, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico 87410

Attention: James Sims

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's McDaniel "B" #1E well. The locations of tank batteries and flow lines will be on location with well. A burn pit will be provided for disposal of trash. Cuttings, drilling fluid and produced fluids will be put into the reserve pit and properly disposed of depending on amount and type of fluids.

There will be no camps or air strips.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks.

Water supply will be Citizens Ditch.

The location will be restored to the land owner's satisfaction. If this is not satisfactory, please have the Bureau of Land Management contact the land owner. This work will begin when all related construction is finished.

Mr. Ross Lankford will be Southland Royalty Company's field representative supervising these operations.

Yours truly,

L. O. Van Ryan  
District Production Manager

LOVR/dg



**Southland Royalty Company**

October 31, 1979

United States Geological Survey  
P. O. Box 959  
Farmington, New Mexico

Attention: James Sims

Re: McDaniel "B" #1E

Dear Sir:

We have contacted land owner and will restore surface to their specifications; however, the land owner has not specified exact restoration at this time.

If this is not acceptable, please have the Bureau of Land Management contact the land owner.

Yours truly,

L. O. Van Ryan  
District Production Manager

LVR/dg

LOCATION PROFILE FOR  
SOUTHLAND ROYALTY CO. #1E McDANIEL "B"  
1620' FNL 990' FWL Sec. 17-T29N-R11W  
SAN JUAN COUNTY, NEW MEXICO

