

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY30-046-24002
5. LEASE DESIGNATION AND SERIAL NO.

SP-077056

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McDaniel "C"

9. WELL NO.

#1E

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 19, T29N, R11W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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

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
E 1550' FNL & 870' FWL
At proposed prod. zone

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

1 1/2 miles West of Bloomfield, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

870'

16. NO. OF ACRES IN LEASE

713.69

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

2073'

19. PROPOSED DEPTH

6425'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

220 N/317.55

20. ROTARY OR CABLE TOOLS

Rotary

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

5618' GR

22. APPROX. DATE WORK WILL START*
February 1, 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"	4 1/2"	15.5#	6425'	265 sacks (Stage One)
				320 sacks (Stage Two)
				270 sacks (Stage Three)

Surface formation is Nacimiento.

Top of Fruitland sand is at 1450'.

Top of Pictured Cliffs sand is at 1705'.

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 TD 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 dedicated.

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 blowout preventer program, if any.

24.

SIGNED

TITLE District Production Manager

DATE 11-7-79

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

NMOCC

ADDITIONAL WELL WITHIN 5 PM OF NEW MEXICO ORDER R-1670-V.
U.S.G.S. PATENTATION DATED JUNE 1, 1971.

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-107
Revised 10-1-78

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

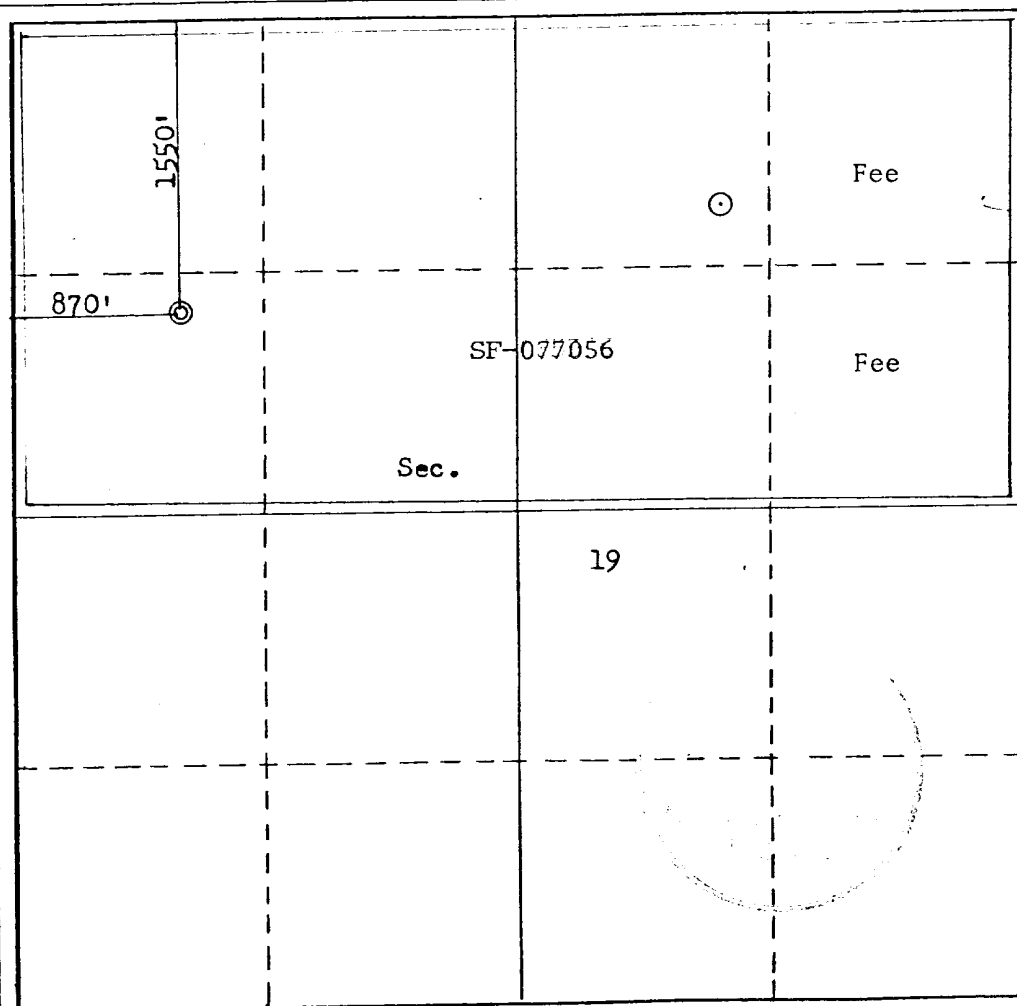
Operator SOUTHLAND ROYALTY COMPANY			Lease McDANIEL "C"		Well No. 1-E
Unit Letter E	Section 19	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1550 feet from the North line and 870 feet from the West line					
Ground Level Elev. 5618	Producing Formation Dakota		Pool Basin Dakota	Dedicated Acreage: 220 317.55 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Name

L. O. Van Ryan

Position

District Production Manager

Company

Southland Royalty Company

Date

November 7, 1979

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.

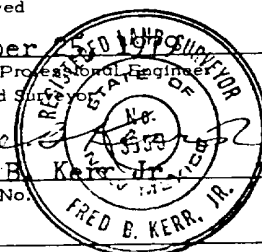
Date Surveyed

October 25, 1979

Registered Professional Engineer
and/or Land Surveyor

Fred B. Kerr, Jr.

Certificate No. 3950



DRILLING SCHEDULE - McDANIEL "C" #1E

LOCATION: 1550' FNL & 870' FLW, Section 19, T29N, R11W, San Juan County, New Mexico

FIELD: Basin Dakota

ELEVATION: 5618' GR

TD: 6425'

GEOLOGY:

Formation Tops:

Ojo Alamo	730'	Gallup	5310'
Fruitland	1450'	Graneros	6110'
Pictured Cliffs	1705'	Dakota	6225'
Cliff House	3270'		
Point Lookout	4065'		

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

Coring Program: None.

Natural Gauges: None.

DRILLING:

Contractor:

Tool Pusher:

SRC Representative:

SRC Answering Service: 325-1841

Dispatch Number: 325-7391

Mud Program: Fresh water to 5250'. Mud up at 5250'. Maintain mud wgt from 8.9 - 9.3; 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# K-55
	7-7/8"	6425'	4-1/2"	15.5# K-55

FLOAT EQUIPMENT:

8-5/8" Surface Casing: Pathfinder guide shoe.

4-1/2" Production Casing: Pathfinder guide shoe and Howco self-fill insert valve. Run 5 centralizers every other joint above shoe. Run Dowell stage tool at 4450' and 1900'. Run cement basket 1 joint below and 5 centralizers above each tool.

Wellhead Equipment: 8-5/8" X 10", 2000# Casinghead with 4-1/2" casing hanger. 10" X 6", 2000# tubing head and tree.

DRILLING SCHEDULE McDANIEL "C" #1E

Page two

Cementing Program:

8 5/8" Surface Casing - 140 sacks (165 cu. ft.) of Class "B" w/1/4# gel flake per sack & 3% CaCl_2 . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

4 1/2" Production String - STAGE ONE - 215 sacks (317 cu. ft.) of 50/50 Poz w/6% gel, 1/4# gel flake/sx, followed by 50 sacks of Neat w/2% CaCl_2 . (Volume is 25% excess to cover top of Gallup.)

STAGE TWO - 270 sacks (403 cu. ft.) of 50/50 Poz w/6% gel, followed by 50 sacks of Neat w/2% CaCl_2 . (Volume is 50% excess to cover top of Cliff House.)

STAGE THREE - 270 sacks (400 cu. ft.) of 50/50 Poz w/6% gel. (Volume is 50% excess to cover top of Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

L. O. Van Ryan
District Production Manager

BJM/ke



Southland Royalty Company

November 7, 1979

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

Attention: James Sims

Dear Sir:

Enclosed please find a map showing existing roads and planned access roads to Southland Royalty Company's McDaniel "C" #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.

Contractor will furnish restroom facilities on location.

There will be no air strips or camps.

Also, enclosed is a location layout showing approximate location of rig, pits and pipe racks and cut required to build this location.

Water supply will be the Citizens Ditch.

The location will be restored according to Bureau of Land Management standards. 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

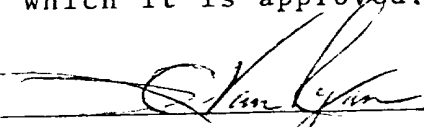
United States Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

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: November 7, 1979

Name: 

Title: District Production Manager



Southland Royalty Company

November 7, 1979

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

Attention: James Sims

Re: Blowout Preventer Plan

Dear Sir:

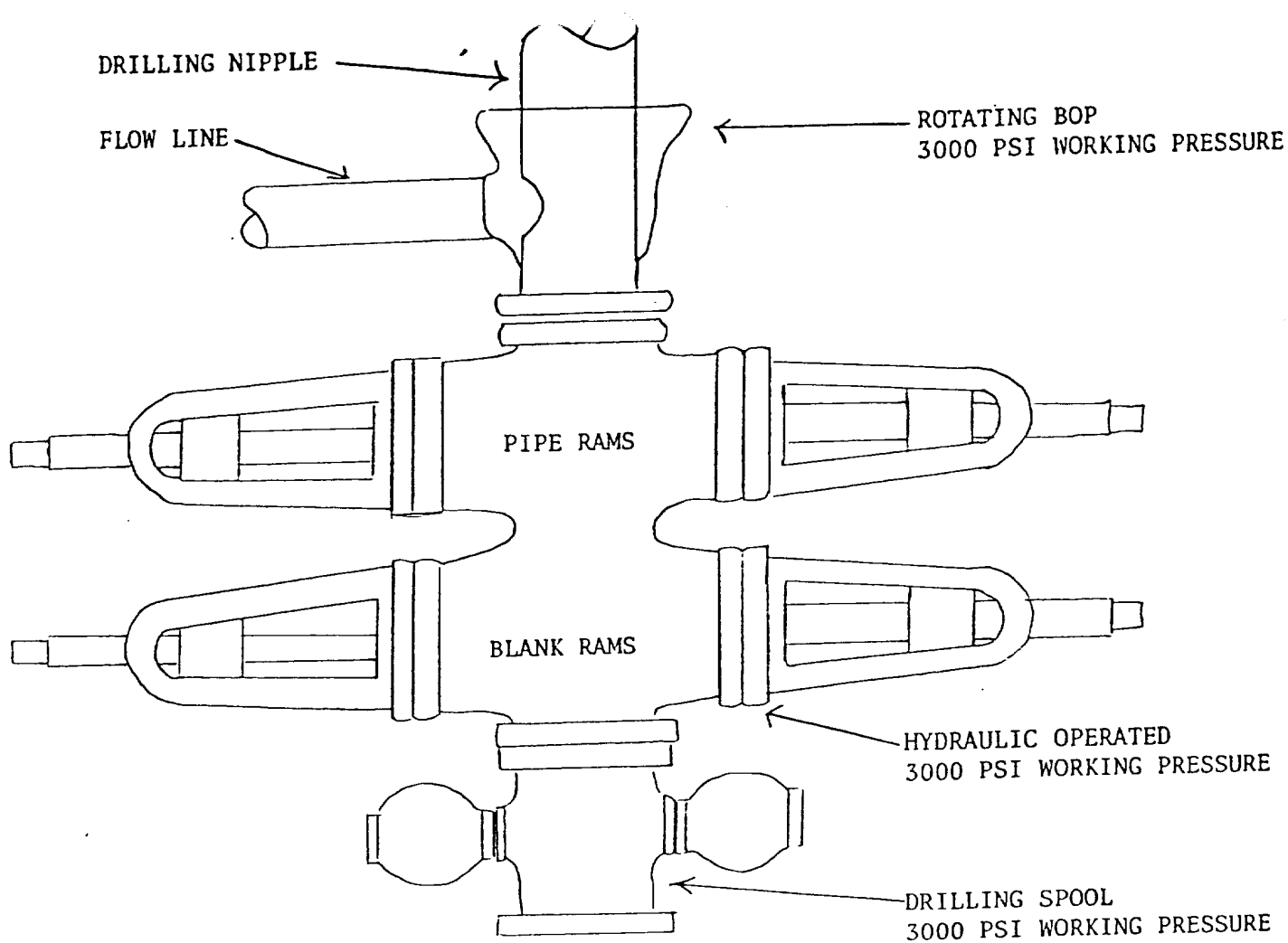
All drilling and completion rigs will be equipped with 6" or larger double hydraulic blowout preventers and a hydraulic closing unit with steel lines.

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.

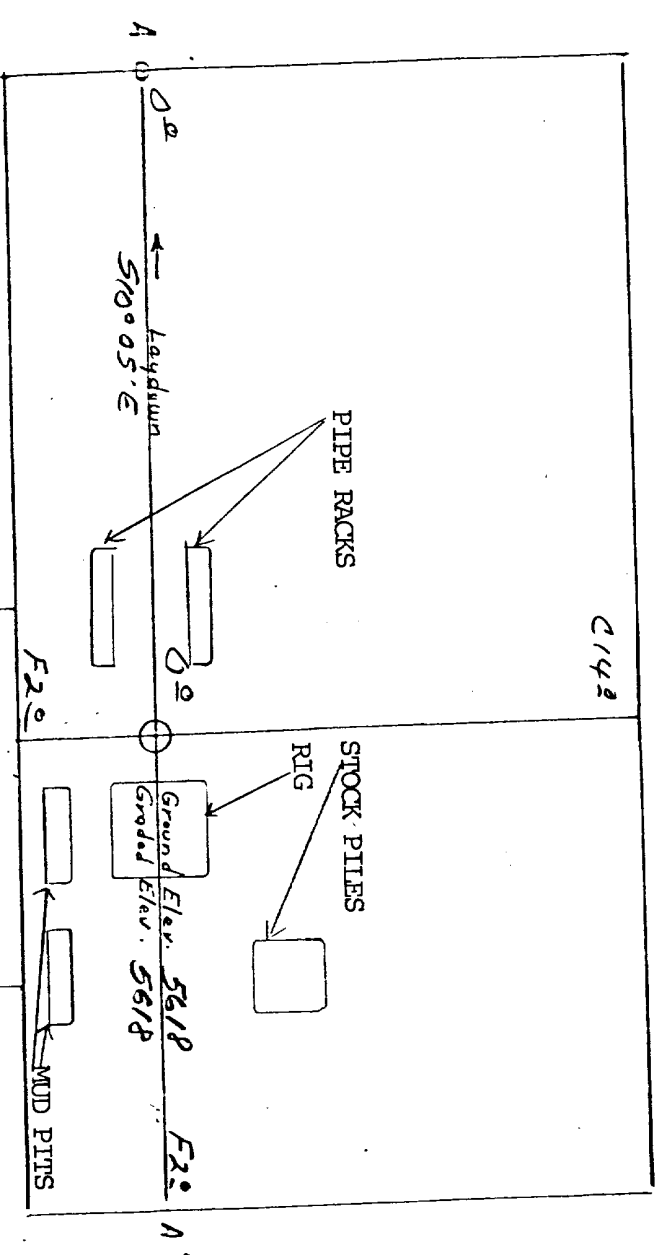
Yours truly,

L. O. Van Ryan
District Production Manager



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

Location Profile for
 SOUTHLAND ROYALTY CO. #1E McDANIEL "C"
 1550' FNL 870' FWL Sec 19-T29N-R11W San Juan County, New Mexico



Vert. 1"=40' A-A' Horiz. 1"=100'

5630					
5620					
5610					

B-B'

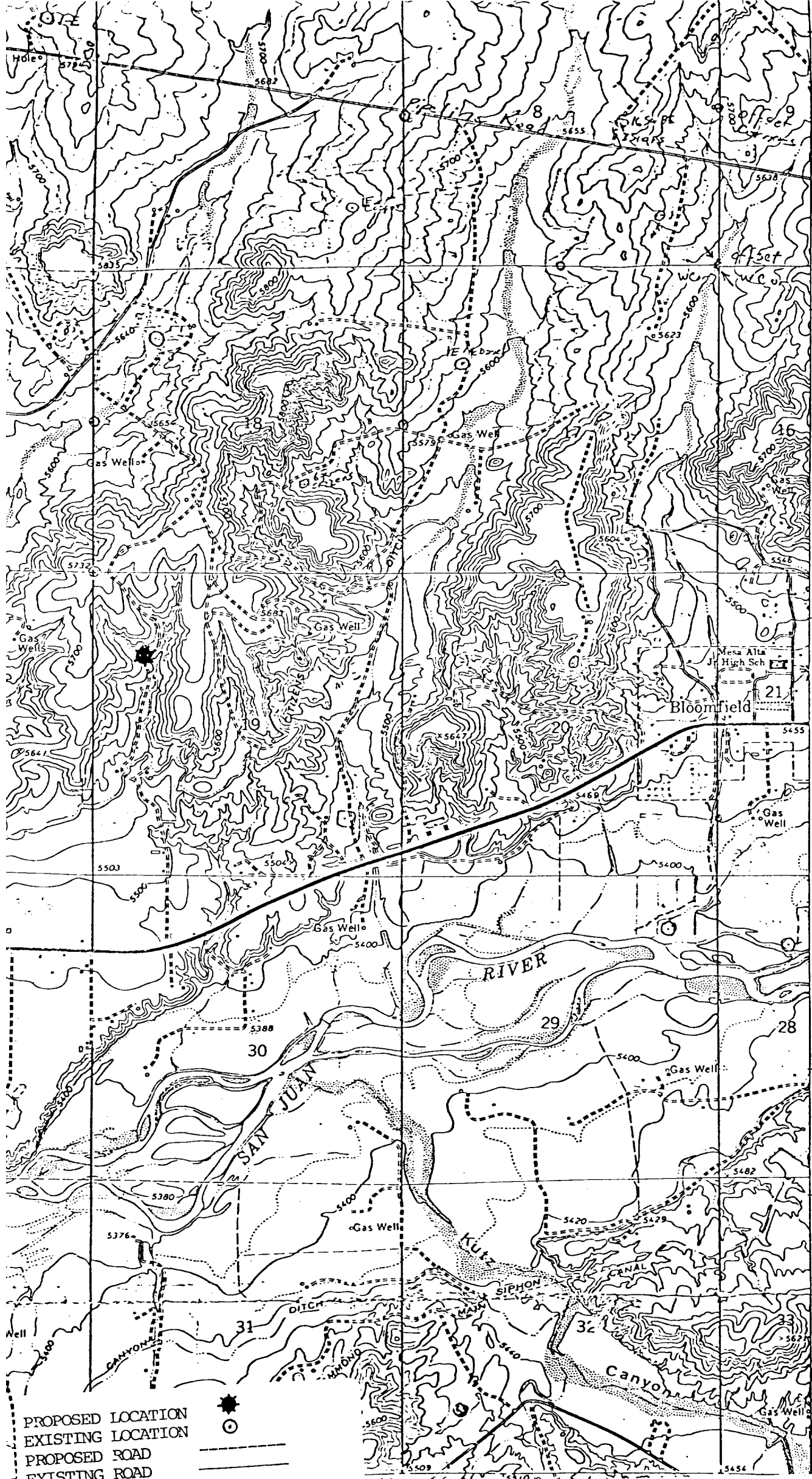
5630					
5620					
5610					

Reserve
 Pit
 F90

Vert. 1"=40' C-C' Horiz.

D-D'

KERR LAND SURVEYING
 Date: _____



2 090 000
FEET

BLANCO 10 MI.
DULCE 72 MI.

(17)

42'30"

4066

4065

BLOOMFIELD 1:62 500
4497 III

T. 29 N.

PROPOSED LOCATION
EXISTING LOCATION
PROPOSED ROAD
EXISTING ROAD

Vicinity Map for
SOUTHLAND ROYALTY CO. #1E McDANIEL C
1550'FNL 870'FWL Sec 19-T29N-R11W
SOUTHERN COUNTY NEW MEXICO