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NEW MEXICO OIL CONSERVATION COMMISSION

30-045-24085
Form C-101
Revised 1-4-65

5A. Indicate Type of Lease	
STATE <input checked="" type="checkbox"/>	FEE <input type="checkbox"/>
5. State Oil & Gas Lease No.	
7. Unit Agreement Name	
8. Farm or Lease Name Mangum "B" Com	
9. Well No. #1E	
10. Field and Pool, or Wildcat Basin Dakota	
12. County San Juan	
19. Proposed Depth 6255'	19A. Formation Dakota
20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 5478' GR	21A. Kind & Status Plug. Bond
21B. Drilling Contractor	
22. Approx. Date Work will start March 31, 1980	

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work	
DRILL <input checked="" type="checkbox"/>	DEEPEN <input type="checkbox"/>
PLUG BACK <input type="checkbox"/>	
b. Type of Well	
OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>
OTHER <input type="checkbox"/>	
2. Name of Operator Southland Royalty Company	
3. Address of Operator P. O. Drawer 570, Farmington, NM 87401	
4. Location of Well	
UNIT LETTER M	LOCATED 1020 FEET FROM THE South LINE
AND 1045 FEET FROM THE West	LINE OF SEC. 32 TWP. 29N RGE. 11W
21. Elevations (Show whether DF, RT, etc.) 5478' GR	
21A. Kind & Status Plug. Bond	
21B. Drilling Contractor	

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	8 5/8"	24#	200'	140 Sacks	Circ. to surf.
7 7/8"	4 1/2"	10.5#	6255'	230 Sacks (1)	Cover Gallup
				295 Sacks (2)	
				210 Sacks (3)	

Surface formation is Nacimiento.
Top of Ojo Alamo sand is at 740'.
Fresh water mud will be used to drill from surface to total depth.
It is anticipated that an IES and GR-Density log will be run at total depth.
No abnormal pressures or poisonous gases are anticipated in this well.
It is expected that this well will be drilled before July 1, 1980. This depends
on time required for approvals, rig availability and the weather.
Gas is dedicated.

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 3-16-80

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed [Signature] Title District Engineer Date 12-13-79

(This space for State Use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE DEC 17 1979

CONDITIONS OF APPROVAL, IF ANY:

Www 386

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

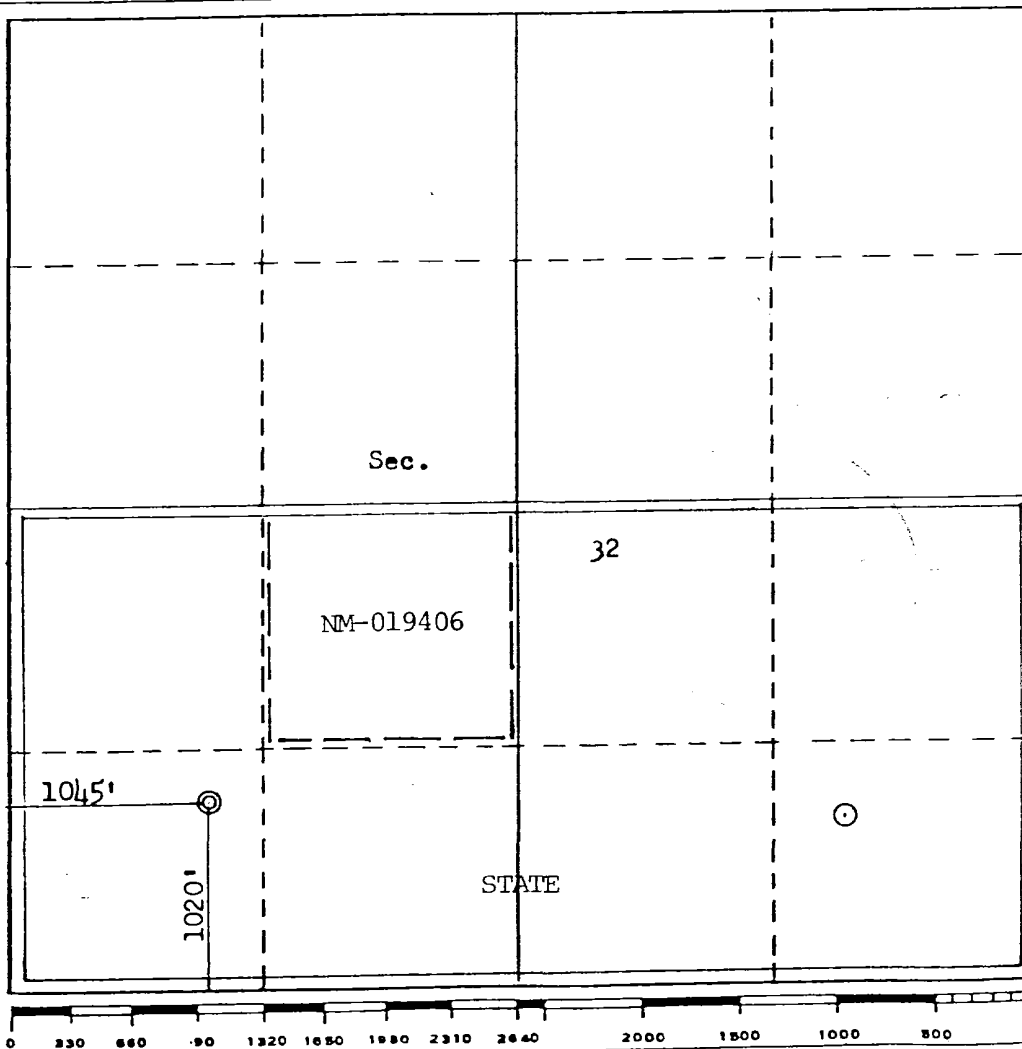
Operator SOUTHLAND ROYALTY COMPANY			Lease MANGUM "B" COM		Well No. 1-E
Unit Letter M	Section 32	Township 29N	Range 11W	County San Juan	
Actual Footage Location of Well: 1020 feet from the South line and 1045 feet from the West line					
Ground Level Elev. 5478	Producing Formation Dakota		Pool Basin Dakota		Dedicated Acreage: 320 312.12 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 _____

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.



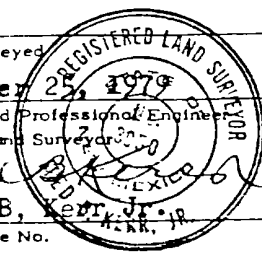
CERTIFICATION

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

Name
Curtis C. Parsons
Position
District Engineer
Company
Southland Royalty Company
Date
December 5, 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. Kent, Jr.
Certificate No.
3950





Southland Royalty Company

December 13, 1979

Oil Conservation Division
Mr. Al Kendrick
1000 Rio Brazos Road
Aztec, NM 87410

RE: Blowout Preventer Plan

Dear Sir:

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

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

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,

Curtis C. Parsons
District Engineer

CCP/ke

SOUTHLAND ROYALTY COMPANY - DRILLING SCHEDULE

M A N G U M " B " C O M # 1 - E

1020' FSL & 1045' FWL
Section 32, T29N, R11W
San Juan County, New Mexico

Field: Basin Dakota

Elevation: 5478' GR

Geology:

Formation Tops:	Ojo Alamo	740'	Gallup	5115'
	Fruitland	1240'	Graneros	5950'
	Pictured Cliffs	1510'	Dakota	6055'
	Cliff House	3055'	Total Depth	6255'
	Point Lookout	3890'		

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

Drilling:

Contractor:

Tool Pusher:

SRC Representative:

SRC Answering Service: 325-1841
Dispatch Number: 325-7391

Mud Program: Fresh water to 5100'. Mud up at 5100'. Maintain mud wgt. of 8.9 to 9.3, viscosity of 35 to 40 secs, water loss of 10 to 12 cc.

Materials:

Casing Program:	<u>Hole Size</u>	<u>Depth</u>	<u>Casing Size</u>	<u>Wt. & Grade</u>
	12 1/4"	200'	8 5/8"	24# K-55
	7 7/8"	6255'	4 1/2"	10.5# K-55

Float Equipment:

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

4 1/2" Production Casing: Pathfinder type "A" guide shoe. Self-fill flapper type collar run one joint above shoe. 5 Pathfinder bow-type stabilizers run every other joint from shoe. Run Dowell stage tools at 4290' and 1660'. Run one cement basket below and 5 Pathfinder rigid stabilizers above each tool.

Wellhead Equipment: 8 5/8" X 10", 2000# casing head with 4 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% CaCl_2 . WOC 12 hours. Test to 600# prior to drilling out. (Volume is 100% excess.)

4 1/2" Production Casing: STAGE ONE - 180 sacks (268 cu. ft.) of 50/50 Poz with 6% gel, 1/4# gel flake per sack, followed by 50 sacks of Neat with 2% CaCl_2 . (Volume is 25% excess to cover Gallup.)

STAGE TWO - 245 sacks (365 cu. ft.) of 50/50 Poz with 6% gel, followed by 50 sacks of Neat with 2% CaCl_2 . (Volume is 50% excess to cover Cliff House.)

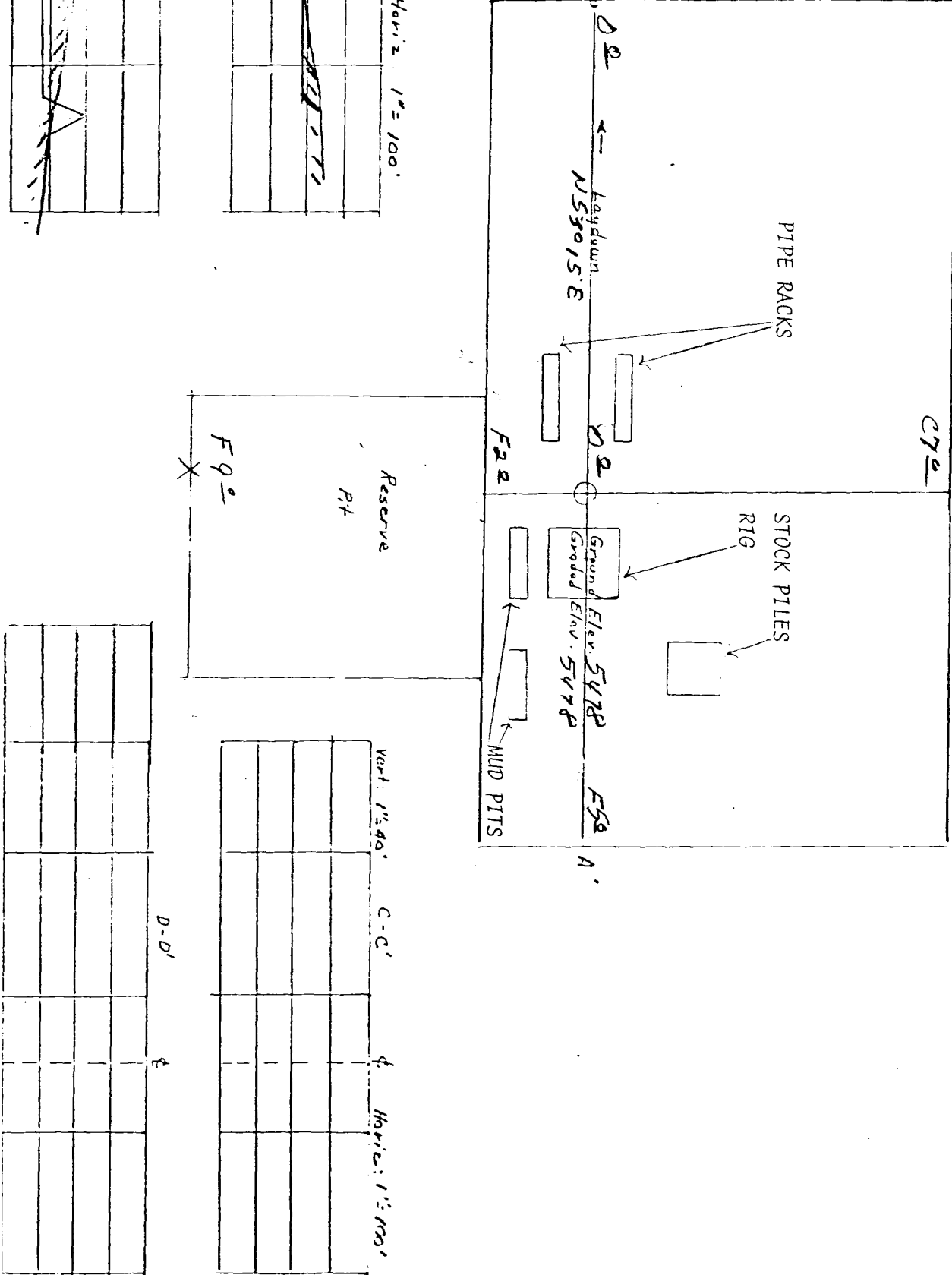
STAGE THREE - 210 sacks (314 cu. ft.) of 50/50 Poz with 6% gel. (Volume is 50% excess to cover Ojo Alamo.)

WOC and circulate between stages as required by well conditions.

L. O. Van Ryan
District Production Manager

BJM/ke

SOUTHLAND ROYALTY CO. #1E MANGUM "B" COM
10201 FSL 1045 FWL Sec 32-T29N-R11W San Juan County, New Mexico





PROPOSED LOCATION ★
 EXISTING LOCATIONS ○
 PROPOSED ROAD - - -
 EXISTING ROADS —

Vicinity Map for
 SOUTHLAND ROYALTY CO. #1E MANGUM B COM
 1020' PSL 1045' FWL Sec 32-T29N-R11W