

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING  
OFFICE FOR NUMBER  
OF COPIES REQUIRED  
(Other instructions on reverse  
side)

BLM Roswell District  
Modified Form No.  
NM060-3160-4

dsf

**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 "APPLICATION FOR PERMIT-" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>NM-61582</b>	
2. NAME OF OPERATOR <b>Southland Royalty Company</b>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR <b>21 Desta Dr., Midland, TX 79705</b>		7. UNIT AGREEMENT NAME	
3a. AREA CODE & PHONE NO. <b>915-685-5806</b>		8. FARM OR LEASE NAME <b>Apache "A" Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>890' FNL &amp; 840' FWL</b>		9. WELL NO. <b>5</b>	
10. FIELD AND POOL, OR WILDCAT <b>Parkway (Yates)</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 35, T19S, R29E</b>	
14. PERMIT NO. <b>Approved 2/20/90</b>	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>3311' GR.</b>	12. COUNTY OR PARISH <b>Eddy</b>	13. STATE <b>NM</b>

MAY 25 '90

O. C. D.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <b>Set &amp; Cmt'd Surface Csg</b> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)\*

Spudded on 02 May 1990. Set 13 3/8" 48#, K-55, STC csg @220'. Cmt'd w/350 sx Class C + 2% CaCl2 + 1/4# per sx Flocele. P.D. @1445 hrs. (MST). No returns. Ran temp. survey--TOC @20'.

ACCEPTED FOR RECORD

MAY 24 1990

CARLSBAD, NEW MEXICO

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

SIGNED *Robert A. Bradshaw*

TITLE Sr. Staff Env./Reg. Spec.

DATE 17 May 1990

(This space for Federal or State office use)

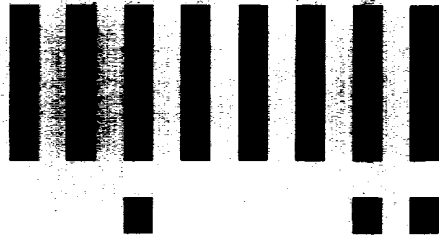
APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

RECEIVED  
MAY 18 11 23 AM '90  
CARLSBAD, NEW MEXICO  
AREA 111-100-1000



**LTR**



**Job separation sheet**

Forin 3160-3  
(July 1989)  
(formerly 9-331C)

ARTESIA, UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING  
OFFICE FOR NUMBER  
OF COPIES REQUIRED  
(Other instructions on  
reverse side)

BLM Roswell District  
Modified Form No.  
NM060-3160-2

30-015-26291

# APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>NM-61582</b>	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Southland Royalty Company</b>		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR <b>21 Desta Dr., Midland, TX 79705</b>		8. FARM OR LEASE NAME <b>Apache "A" Federal</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface <b>890' FNL &amp; 840' FWL</b> At proposed prod. zone <b>Same</b>		9. WELL NO. <b>5</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>15 miles northeast of Carlsbad, NM</b>		10. FIELD AND POOL, OR WILDCAT <b>Parkway (Yates)</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dlig. unit line, if any) <b>430'</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 35, T19S, R29E</b>	
16. NO. OF ACRES IN LEASE <b>240</b>		12. COUNTY OR PARISH <b>Eddy</b>	
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>		13. STATE <b>NM</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>140'</b>		19. PROPOSED DEPTH <b>1600'</b>	
20. ROTARY OR CABLE TOOLS <b>Rotary</b>		21. APPROX. DATE WORK WILL START* <b>01 March 90</b>	
21. ELEVATIONS (Show Whether DF, RT, GR, ETC.) <b>3311' GR.</b>		22. APPROX. DATE WORK WILL START*	

## PROPOSED CASING AND CEMENTING PROGRAM

HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
14 3/4"	10 3/4"	40.5	H-40	STC	350'	250 sx
9 7/8"	7"	20.0	K-55	STC	1500'	440 Sx

DRILLING PLAN--Drill a 14 3/4" hole to 350'. Run & cement 10 3/4" csg. Drill a 9 7/8" hole to 1500' Run & cement 7" csg. Drill a 6 1/4" hole to 1600' No csg is to be run in the 6 1/4" hole.

MUD PROGRAM--0-350' FW spud mud. 350'-1500' sat'd brine water. 1500'-TD sat'd brine foam @5.5-6.5 ppg.

BOP PROGRAM--11" 2M psi BOP stack in a S.A. arrangement installed on the 10 3/4". A 9" 3M psi BOP stack in a S.R.R.G. arrangement with a flowline control valve will be installed on the 7" for anticipated foam drilling. BOP & csg will be tested with rig pump.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

Post ID-1  
3-2-90  
New Loc & API

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 Robert L. Bradshaw TITLE Sr. Staff Env./Reg. Spec. DATE 10 January 90

(This space for Federal or State office use)

PERMIT NO. Orig. Signed by Richard L. Monus APPROVAL DATE 2-20-90  
APPROVED BY Richard L. Monus TITLE AREA MANAGER DATE 2-20-90  
CONDITIONS OF APPROVAL, IF ANY:

\*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.

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

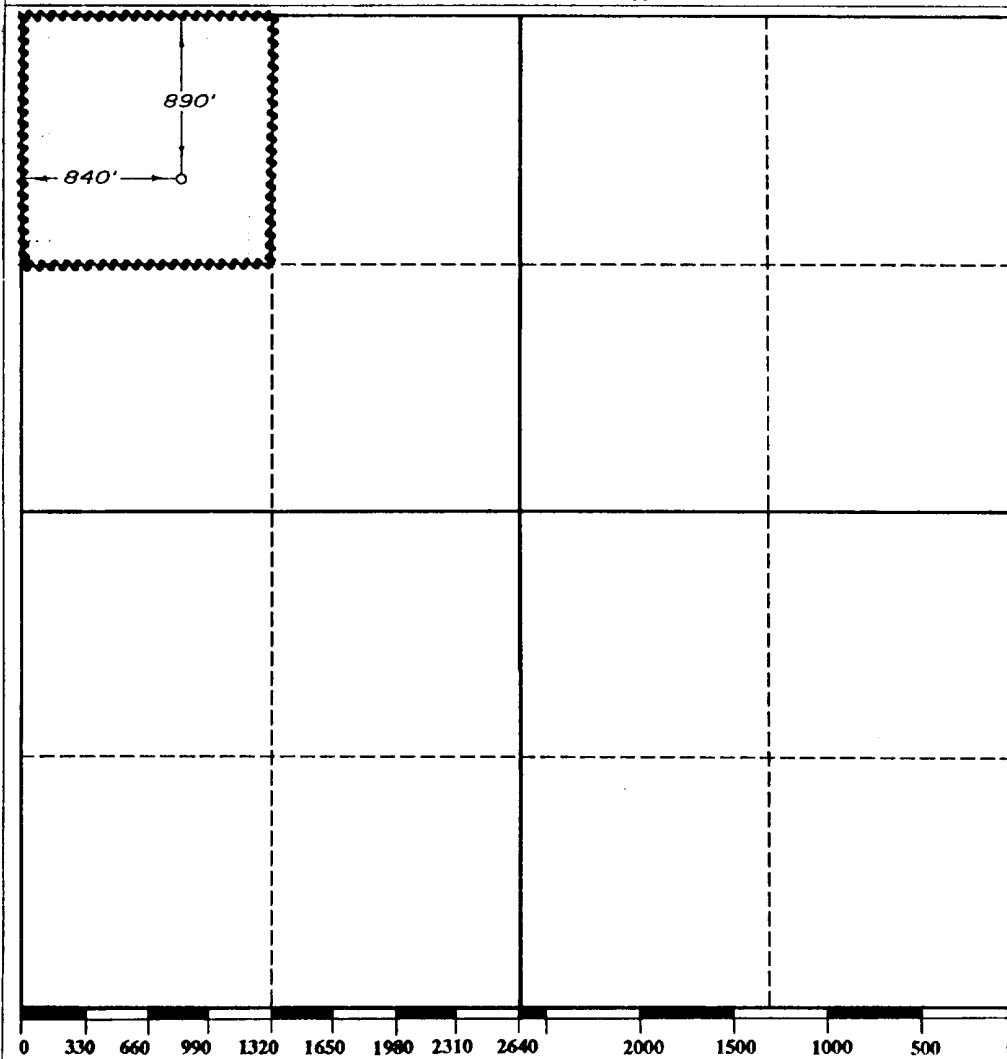
All Distances must be from the outer boundaries of the section

Operator <b>MERIDIAN OIL INC.</b>			Lease <b>APACHE "A" FEDERAL</b>		Well No. <b>5</b>
Unit Letter <b>D</b>	Section <b>35</b>	Township <b>19-SOUTH</b>	Range <b>29-EAST</b>	County <b>EDDY</b>	

Actual Footage Location of Well:

890 feet from the NORTH line and		840 feet from the WEST line	
Ground level Elev. <b>3311'</b>	Producing Formation <b>Yates</b>	Pool <b>Parkway</b>	Dedicated Acreage: <b>40</b> Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature

Printed Name

**Robert L. Bradshaw**

Position

**Sr. Staff Env./Reg. Spec.**

Company

**Meridian Oil Inc.**

Date

**January 10, 1990**

SURVEYOR CERTIFICATION

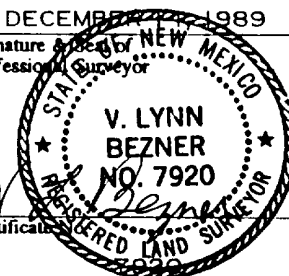
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

**DECEMBER 22, 1989**

Signature of Registered Professional Surveyor

Certification



SOUTHLAND ROYALTY COMPANY  
(Operated by Meridian Oil Inc.)

Apache "A" Federal No. 5  
890' FNL & 840' FWL  
Sec. 35, T-19-S, R-29-E  
Eddy County, New Mexico  
NM-61582

To supplement USGC Form 3160-3 Application to Drill the following additional information is submitted concerning questions on Page 5 of NTL-6:

1. See Form 3160-3
2. See Form 3160-3
3. The geological name of surface formation is: Ochoa
4. See Form 3160-3
5. See Form 3160-3
6. The estimated tops of important geological markers are:

Tansill	1,144'	Yates Pay	1,480'
Yates	1,354'	7 Rivers	1,610'
7. The estimated depths at which anticipated water, oil, gas, and mineral bearing strata are as follows:

Yates	1,480' - Oil
-------	--------------
8. See Form 3160-3. All casing will be new.
9. See Form 3160-3 for depths of strings. Cement volumes and additions as follows:
  - a. 10 3/4" csg: Cement w/ 250 sx "C" + 2% CaCl<sub>2</sub>. Circulate.
  - b. 7" csg: Cement w/440 sx "C" Lite + 10% Salt. Circulate.
10. The pressure control diagram is attached to Form 3160-3. The following additional information is as follows:

10 3/4" casing installation: 11" - 2M BOP stack to be installed and tested to 500 psi with rig pump before drilling the 10 3/4" shoe. The BOP stack to consist of a spool and an annular BOP.

7" casing installation: 9" - 3M BOP stack to be installed and tested to 2000 psi with rig pump before drilling the 7" shoe. BOP stack to consist of a spool, one pipe ram BOP, one blind ram BOP, and a rotating head.
11. See Form 3160-3
12.
  - A. DST Program: None
  - B. Core: None
  - C. Mud Logging: None
  - D. Wire Line Logs: ~~None~~ G-R / NEUTRON FROM BASE OF SALADO TO SURFACE AS 2 IN STIPS.
13. No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 600 psi. Bottom hole temperature 85° F. No Hydrogen Sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.
14. Anticipated starting date to spud - on or before 3-01-90. Anticipated drilling time expected to be 6 days from surface to TD.

## SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY  
(Operated by Meridian Oil Inc.)

Apache "A" Federal No. 5  
890' FNL & 840' FWL  
Sec. 35, T-19-S, R-29-E  
Eddy County, New Mexico  
NM-61582

This plan is submitted with Application to Drill on above described well. The minerals are federal and the surface is leased for grazing (See below for surface lessee). The purpose of this plan is to describe the location, proposed construction activities and operations plans, magnitude of necessary surface disturbance and procedures to be followed in rehabilitating the surface after completion of the operation so that complete appraisal can be made of the environmental effects associated with the operations.

1. Existing Roads:

Exhibit "A" is a portion of a USGS Topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From the junction of U.S. 180 and Hwy. 31 N, 15 miles east of Carlsbad, go west 1.3 miles on U.S. 180, thence north 6.1 miles on County Road 238, thence east 0.5 mile on Lease road to a point on the west line of Section 35  $\pm$ 1800' north of its SW corner.

2. Planned Access Road: None required -- will use existing access road.

3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

Location of proposed well site is shown on Exhibit "C".

5. Water Supply:

No available surface or sub-surface fresh water exists in the vicinity of the proposed well. Drilling water will be transported or pumped to the drill site from the nearest commercial source.

6. Source of Construction Material:

Caliche for surfacing pad will be obtained from a BLM-approved pit located in the SW/4 NE/4 Sec. 3, T20S, R29E, Eddy County, New Mexico.

7. Handling Waste Disposal:

- a. Drill cuttings - disposed into drilling pits.
- b. Drill fluids - allowed to evaporate in drill pits until pits dry.
- c. Produced water during testing - drill pits.
- d. Produced oil during testing - storage tank until sold.
- e. Current laws and regulations pertaining to disposal of human waste will be observed.
- f. Reserve pit will be plastic lined.
- g. Waste paper, garbage, and junk will be disposed of into a dumpster and removed regularly to an authorized disposal site. All waste material will be contained to prevent scattering by wind.
- h. All trash and debris will be buried or removed from well site within 30 days after drilling and/or completion operations are finished.

8. Ancillary Facilities:

None

9. Plans for Restoration of Surface:

- a. After completion of drilling and/or completion of operations, all equipment and other material not needed for operations will be removed. Pits will be filled and locations cleaned of trash and junk to leave well in as aesthetically pleasing a condition as possible.
- b. Any unguarded pits containing fluids will be fenced until filled.
- c. After abandonment of well, surface restoration will be in accordance with the Bureau of Land Management Surface Requirements.

10. Topography and Soil:

New Mexico Archaeological Services, Inc. Report by Dr. J. Loring Haskell is attached.

11. Land Use:

Grazing and hunting - Federal

Surface Lessee -  
Snyder Ranch, Inc.  
P. O. Box 726  
Lovington, New Mexico 88260

12. Surface Ownership:

Bureau of Land Management (Federal)

13. Operators Representatives:

Field representatives (Responsible for compliance with approved surface use and operations plan):

Southland Royalty Company  
(Operated by Meridian Oil Inc.)  
P. O. Box 837  
Hobbs, New Mexico 88240  
Office: 505-393-5844


Mr. Johnny Ellis, Drilling Foreman  
Hobbs, New Mexico  
Home: 505-393-8150

Mr. Bill Dawson, Drilling Superintendent  
Midland, Texas Office: 915-686-5600  
Home: 915-682-9037

14. Certification:

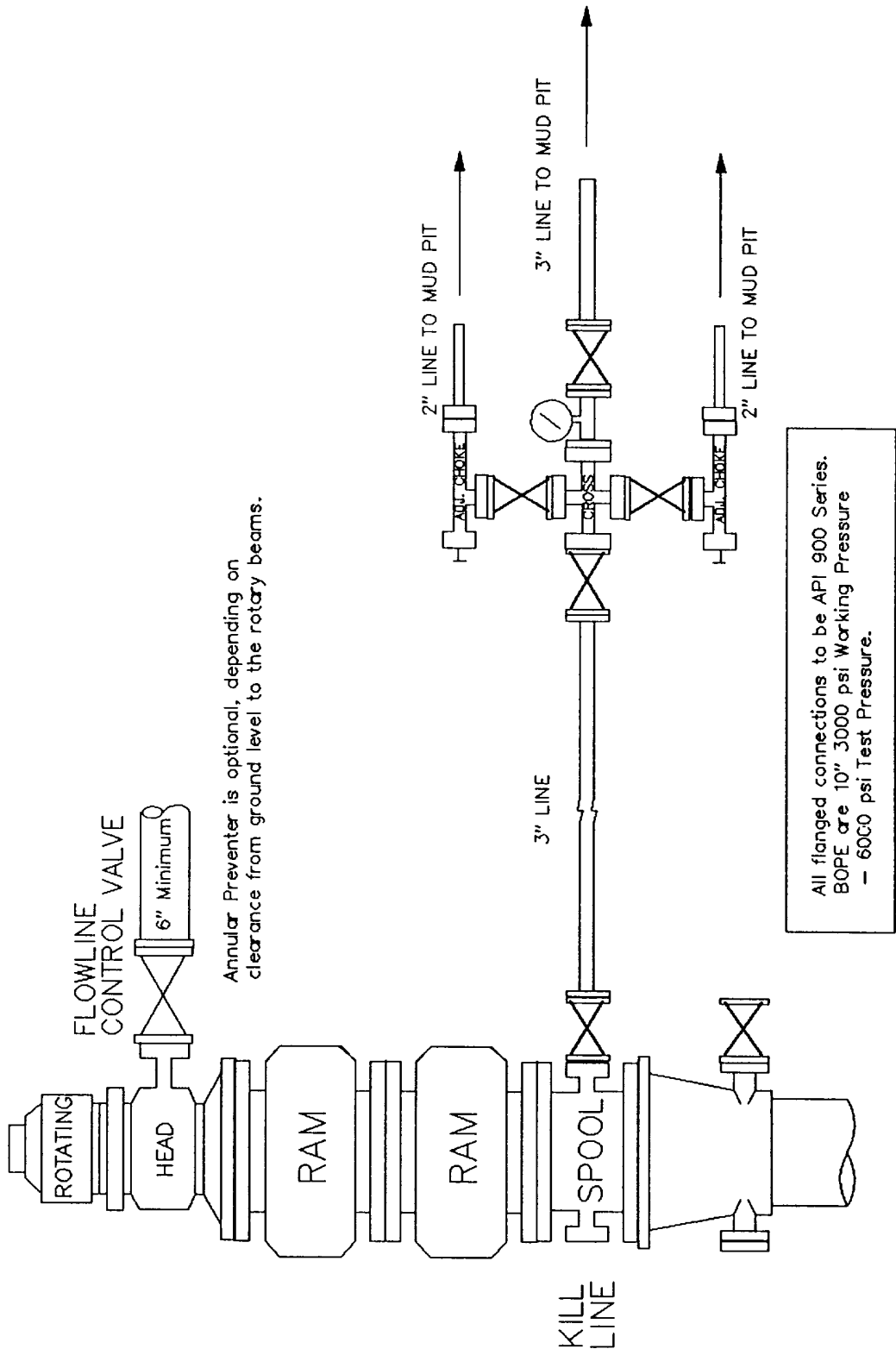
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route; that I am familiar with conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and sub-contractors in uniformity with this plan and the terms and conditions under which it is approved.

Date: 1-10-90

  
L. H. Sinclair  
Senior Drilling Engineer  
Meridian Oil Inc.

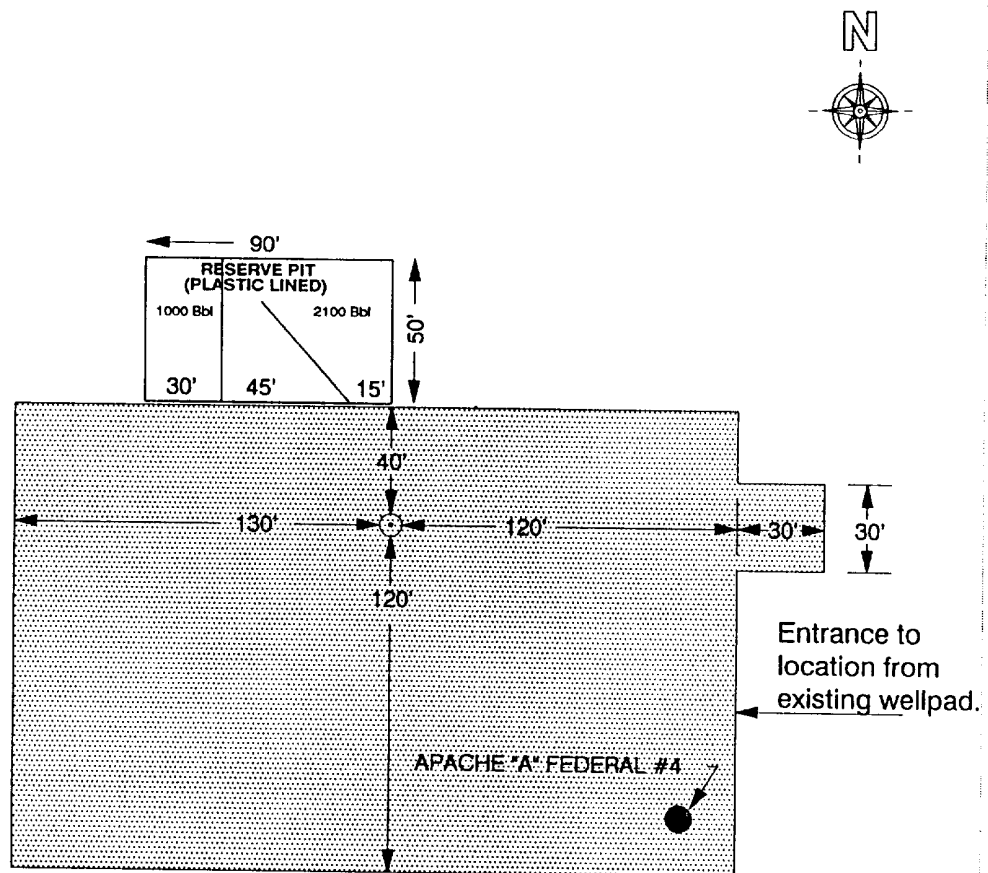


# MINIMUM BLOWOUT PREVENTER REQUIREMENTS



**MERIDIAN OIL Inc.**  
**MIDLAND REGION**  
**DRILL WELL LOCATION SPECIFICATIONS**

**APACHE "A" FEDERAL No. 5**  
**EDDY CO., NEW MEXICO**



**SITE SPECIFICATIONS:**

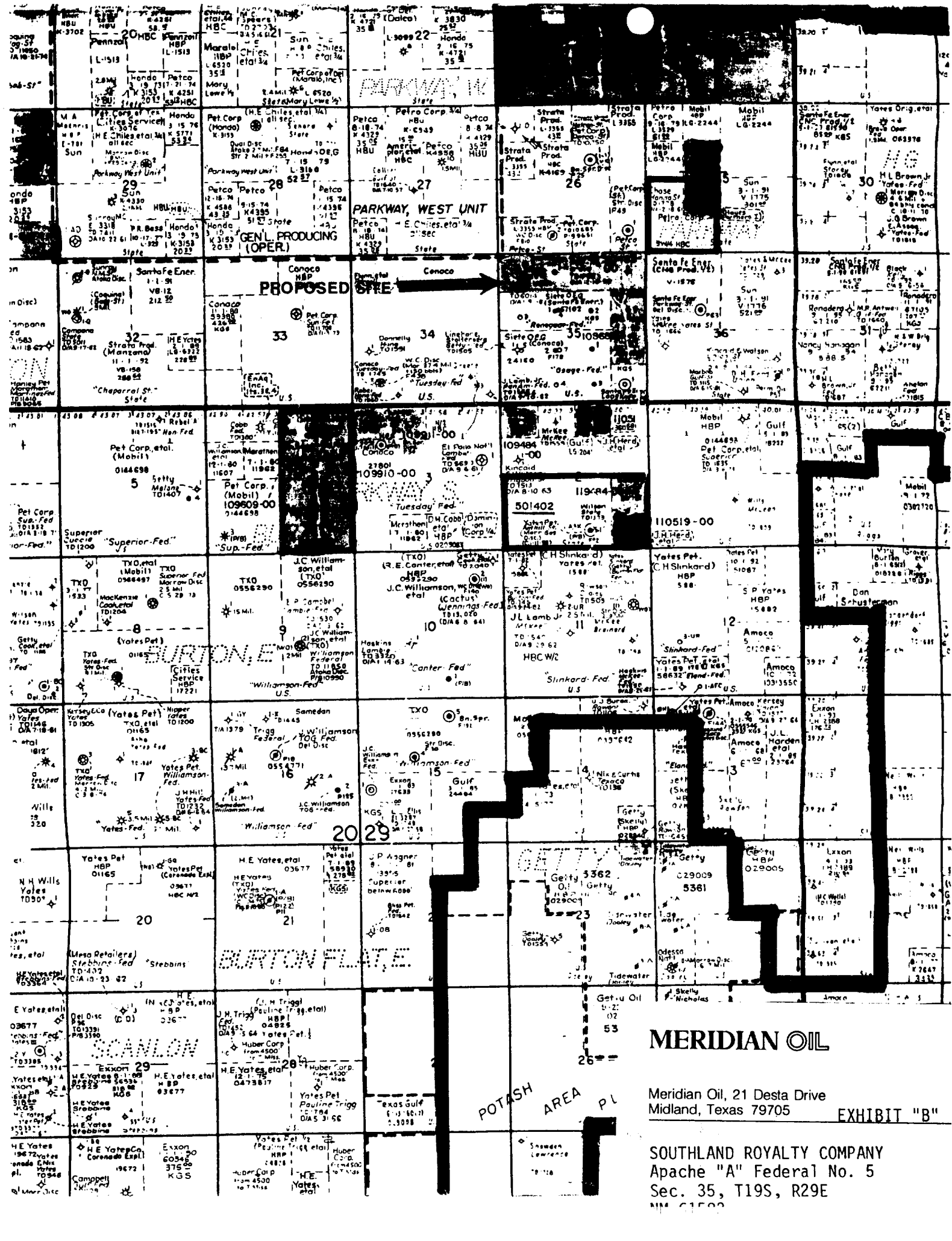
- (1) Well pad and road to be 6" compacted caliche.
- (2) Roads to be 12' wide minimum.
- (3) Reserve pits are 5' deep.
- (4) 6' x 6' x 5' deep boarded cellar.

400' x 400' WELLSITE

Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

EXHIBIT "C"

SOUTHLAND ROYALTY COMPANY  
Apache "A" Federal No. 5  
Sec. 35, T19S, R29E  
NM 61500



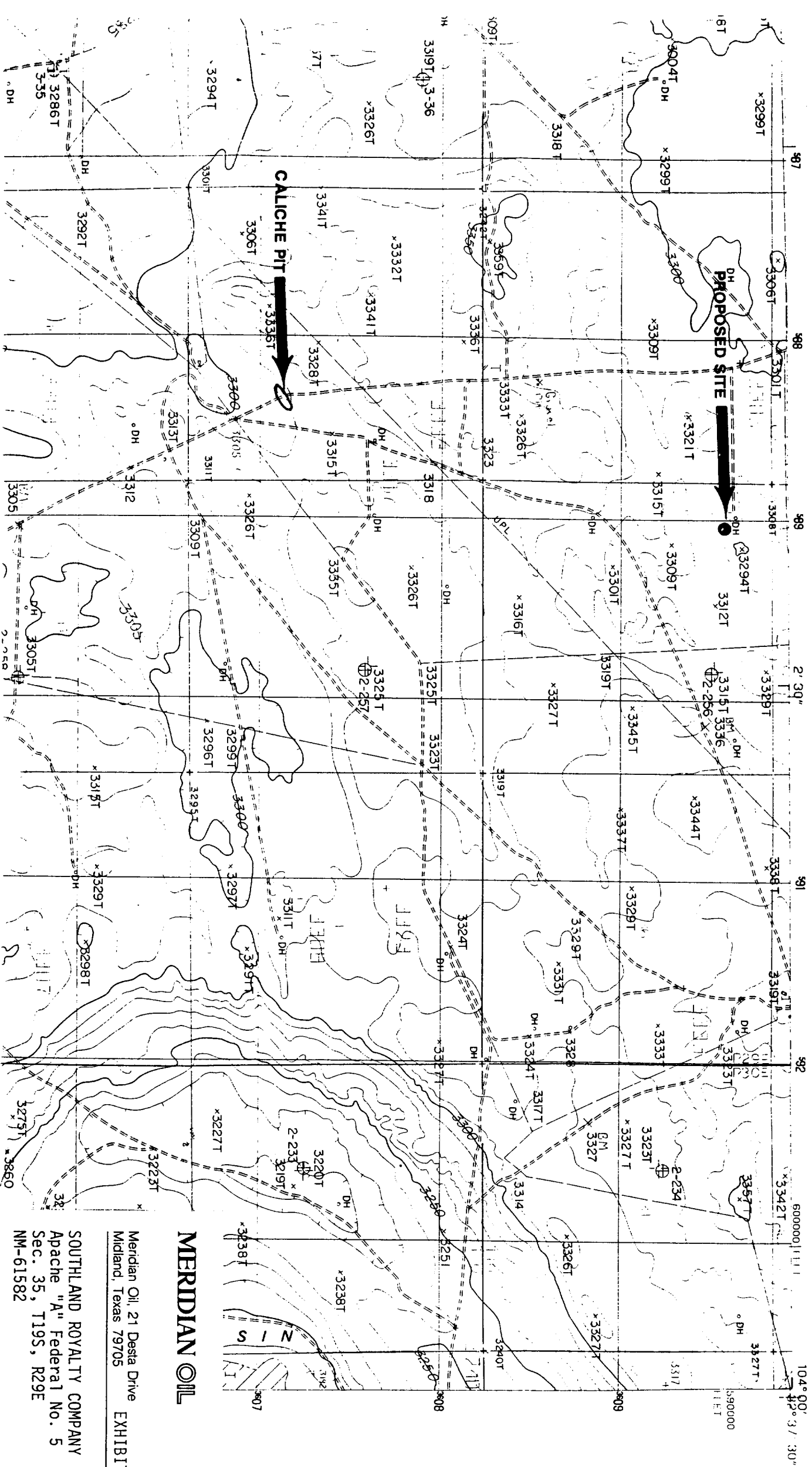
**MERIDIAN OIL**

Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

EXHIBIT "B"

SOUTHLAND ROYALTY COMPANY  
Apache "A" Federal No. 5  
Sec. 35, T19S, R29E  
N44 01'00"

ILLINOIS CAMP SE QUADRANGLE  
NEW MEXICO-EDDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



**MERIDIAN OIL**

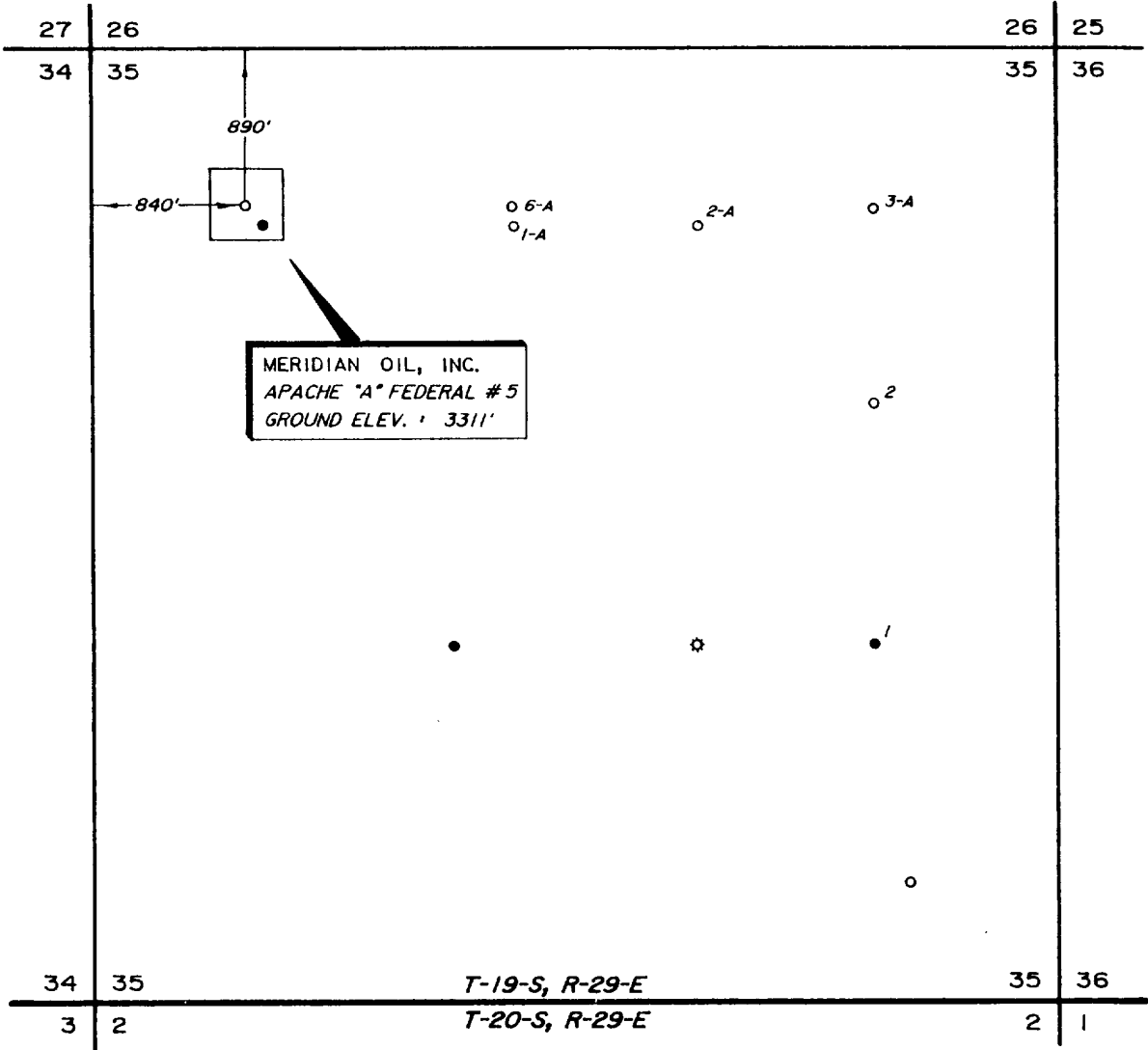
Meridian Oil, 21 Desta Drive  
Midland, Texas 79705

EXHIBIT "A"

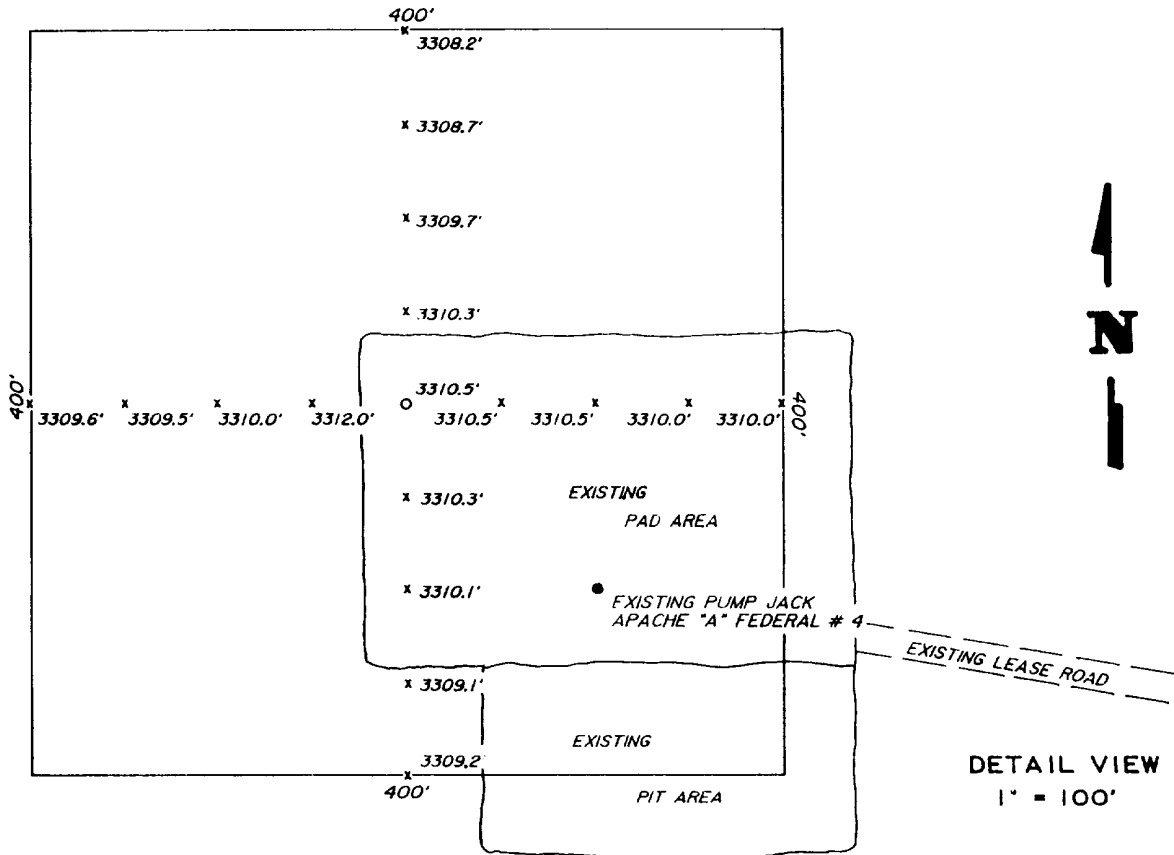
SOUTHLAND ROYALTY COMPANY  
Apache "A" Federal No. 5  
Sec. 35, T19S, R29E  
NM-61582

PLAT SHOWING PROPOSED  
WELL LOCATION and LEASE PAD in  
SECTION 35, T-19-S, R-29-E,  
EDDY COUNTY, NEW MEXICO

FROM THE JCT. OF S. 180 & HWY 31 N, 15 MILES EAST OF  
CARLSBAD, GO WE. 1.3 MILES ON U.S. 180, THENCE NORTH  
6.1 MILES ON COUNTY ROAD 238, THENCE EAST 0.5 MILE  
ON LEASE ROAD TO A POINT ON THE WEST LINE OF  
SECTION 35 ±1800' NORTH OF ITS SW CORNER.



PLAN VIEW  
1" = 1000'



DETAIL VIEW  
1" = 100'

NO.				REVISION				DATE				BY			
SURVEYED BY :				M.W.C.											
DRAWN BY :				P.A.D.											
APPROVED BY :				D.R.K.											

MERIDIAN OIL, INC.				SCALE : AS SHOWN			
MIDLAND, TEXAS				DATE : DECEMBER 14, 1989			
				JOB NO. : 74660			
				DRAWING NUMBER :			
				74 SE			
				SHEET			

SURVEYING AND MAPPING BY			
TOPOGRAPHIC LAND SURVEYORS			
MIDLAND, TEXAS			