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

UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

CONTACT RF VINOFFICE FOR N JER OF COPIES REQUIRED VING

(Other instructions on reverse side)

BLM Roswell District

Modified Form No.
NM060-3160-2

5. LEASE DESIGNATION AND LC-029387(a)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WORK	DRILL 🛛	D	EEPEN 🗌	PLUG BAC	K 7. UNIT	AGREEMENT NAME
5. TYPE OF WELL			RECEIVE	SINGLE MULTIP	LE 8. FARM	1 OR LEASE NAME
OIL X	WELL UTHER OTHER DEPOSIT NO				IONE NO. Shug	jart "A"
	ok I Royalty Co	mnany	AUG U O	915-686-57)	
3. ADDRESS OF OPER		inparty	O. C. I		12	
P.O. Box 5	1810, Midlan	d, TX 79 7 10				LD AND POOL, OR WILDCAT
At surface	(, 2310' FSL	clearly and in account		K	11. SEC AND	T-18-S, R-31-E
14. DISTANCE IN MI	LES AND DIRECTION F	ROM NEAREST TOWN	OR POST OFFICE*		12. COU	INTY OR PARISH 13. STATE
		f Maljamar,		o	Eddy	
15. DISTANCE FROM LOCATION TO NE	PROPOSED*	3301	16. 1	NO. OF ACRES IN LEASE	17. NO. OF ACRES AS: TO THIS WELL 40	Post ID-1
10 DISTANCE EDOM	PROPOSED LOCATION	•	19. /	PROPOSED DEPTH	20. ROTARY OR CAR	SLE TOOLS 8-9-9/
TO NEAREST WE	LL. DRILLING, COMPLE, ON THIS LEASE, F	975 '		4050'	Rota	
21. ELEVATIONS (Shi 3595.51	ow Whether DF, RT,	GR, ETC.)			8-10	PPROX DATE WORK WILL START*
23.		PROPOS	ED CASING AN	D CEMENTING PROGR.	AM	
HOLE SIZE	CASING SIZE	WEIGHT/FOOT	GRADE	THREAD TYPE	SETTING DEPTH	QUANTITY OF CEMENT
2-1/4"	8-5/8"	24#	K-55	STC	500 '	310 sxs Circulat
7-7/8"	5-1/2"	15.5#	K-55	LTC	4050 '	645 sxs <u>Circul</u> at
<u></u>	4					
bnormal pre OP PROGRAM If the drill ipe ram BOF * This well the other w	essures/temper 10"-3M BOF ling. The selling. The selling. Test BOF limer #12 & Welling	eratures and stack to be stack is to be stack is to be stack is to a warred to	ticipated. e installeconsist of independent in the sar ater injec	an annular BOP, nt tester after ne 1/4 1/4 secti tion well follow	and left on a blind ran setting the on. Only on ing receipt	for the remainder BOP, and one 8-5/8" csg.
t any. 24. SIGNED	laria I	Pers		Production Asst.		
(This space for F	ederal or State office	r use)				
APPROVED BY	APPROVAL IF ANY:	- 1	TITLE	APPROVAL DATE		8-7-91
PPROVAL SUBJ ENERAL REQUI PECIAL STI <u>PUL</u>		,	*See instruct	ions On Reverse Si	de <u>:</u>	

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

ITEM 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR Part 3160.

PRINCIPAL PURPOSE: The information is to be used to process and evaluate your application for permit to drill, deepen, or plug back an oil or gas well.

ROUTINE USES: (1) The analysis of the applicant's proposal to discover and extract the Federal or Indian resources encountered. (2) The review of procedures and equipment and the projected impact on the land involved. (3) The evaluation of the effects of proposed operation on surface and subsurface water and other environmental impacts. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions, as well as routine regulatory responsibility.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if the lessee elects to initiate drilling operation on an oil and gas lease.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et seq) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases.

This information will be used to analyze and approve applications.

Response to this request is mandatory only if the lessee elects to initiate drilling operations on an oil and gas lesse.

Substit 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

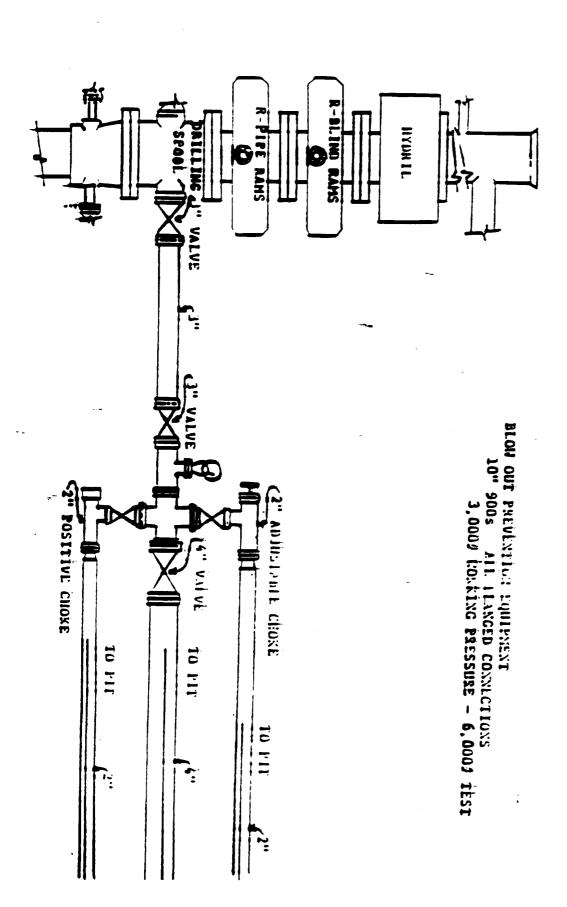
Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Duswer DD, Artesia, NIM 88210 DISTRICT III 1000 Ris Besson Rd., Azzec, NIM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

				Con the total				Well No.	
outhland F	Rovaltv C	ompanv		Sh	ugart "A	1			12
	ction	Township		Range			County	T. 1.	
K	29		18 South	31	East	NMPM		Eddy	
Footage Location	of Well:					- A VALUE AVA			
10 6	et from the	South	line and	1650		feet from	the West	line	
level Elev.	Produc	ing Formation		Pool	/ \	0 01 \		Dedicated Acr	rage:
595.5	Qn, Pen	rose, Gr	ayburg		(Y, 7R,			40	Acres
1. Outline the	e acreage dedicat	led to the subjer	ct well by colored pe	acil or hachure m	arks on the plat	below.			
			well, outline each an	d identify the corr	embin thermof (t	orth as to worki	ng interest and	rovalty).	
3. If more the	na one lease of d	lifferent owners	hip is dedicated to th	e well, have the i	sterest of all own	ners been conso	lidated by com	munitization,	
	, force-pooling.	etc.?	** ******		_				
Y	es 'es" list the com	No	If answer is "yes" ty scriptions which hav	pe or communication e actually been co	esolidated. (Use	e reverse side of			
No allowable	will be assigned	d to the well un	til all interests have i	ocea consolidated	(by communitiza	ation, unitization	, forced-poolis	ng, or otherwise)	
or until a nos	-standard unit, e	liminating such	interest, has been ap	oproved by the Di	VISION.				
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							SOKAE	IOR CERTI	ICATION
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			~~~ ~~	LEW M		/	Signature & S		
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• 14		<u> </u>		JOHN V	- WE				
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• 14	, 1		•2	OHN V			Line Certificate No.	W W/s	L WEST,
• 14	, 1 		•2	OHN V			Long Certificate No.	JOHN W. T	•



SURFACE USE PLAN

SOUTHLAND ROYALTY COMPANY
Shugart "A" #12
K, 2310' FSL & 1650' FWL
Sec. 29, T-18-S, R-31-E
Eddy County, New Mexico
LC-029387a

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 U.S.G.S. topographic map showing the location of the proposed well as staked.

Directions to the well are as follows: From Maljarmar, go west 8.3 miles on U. S. 82, thence south 6.0 miles on County Road 222 to a point on the north line of Section 29, +880' west of its northeast corner.

2. Planned Access Road:

An existing lease road will be used. 38' of access road will be constructed to the well site, per BLM standards.

3. Location of Existing Wells in Area:

See Exhibit "B"

4. <u>Location of Proposed Facilities</u>:

Location of proposed well site and tank battery is shown on Exhibit "C". The battery will be located on proposed well pad; no additional surface disturbance will be necessary.

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.

ż

6. Source of Construction Material:

Caliche for surfacing access road and pad will be obtained from an existing pit located in the of NE/4 of Sec. 29 T18S, R31E. Alternately, caliche will be obtained from on-site or other suitable, BLM approved site.

7. <u>Handling Waste Disposal</u>:

- 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 special container on location. All waste material will be regularly removed to an approved landfill.
- 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 has been submitted to Mr. George Rubelmann, BLM, Carlsbad.

11. Land Use:

Grazing and hunting - Federal

Surface Lessee - Not Known

Surface Use Plan Shugart "A" No. 12 Page 3

12. Surface Ownership:

Bureau of Land Management (Federal)

13. Operators Representatives:

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

Meridian Oil Inc. 416 East Main Artesia, NM 88210 Office: 505-748-1321

Mr. Johnny Ellis, Drilling Foreman, or a consultant

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: _ 7/11/91

S. J. Van Howe Drilling Engineer

Meridian Oil Inc.

CLM/sm

SOUTHLAND ROYALTY COMPANY Shugart "A" No. 12 K, 2310' FSL & 1650' FWL Eddy County, New Mexico LC-029387a

To supplement BLM 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:

San Andres	3,880 Grayburg	3,700
Queen Sand	3,250' Penrose	3,500'

7. The estimated depths at which anticipated water, oil, gas, and mineral bearing strata are as follows:

Queen	2,950'- 011
Grayburg	3,700'- Oil
Penrose	3,500'- 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. 8 5/8" csg: Cement w/250 sx Lite "C" cmt w/2%CaCl2. Circulated to surface.
 - B. 5 1/8" csg: Cement w/+350 sx C1 "C".Lite + 6% Ge1 + 5 pps salt + 0.25 pps celloseal and tail in w/295 sx C1 "C". Circ. to surface.

A caliper log will be run prior to setting 5-1/2" pipe to determine exact cement volumes required.

Supplement to BLM Form 3160-3 Shugart "A" No. 12 page 2

10. The pressure control diagram is attached to Form 3160-3. The following additional information is as follows:

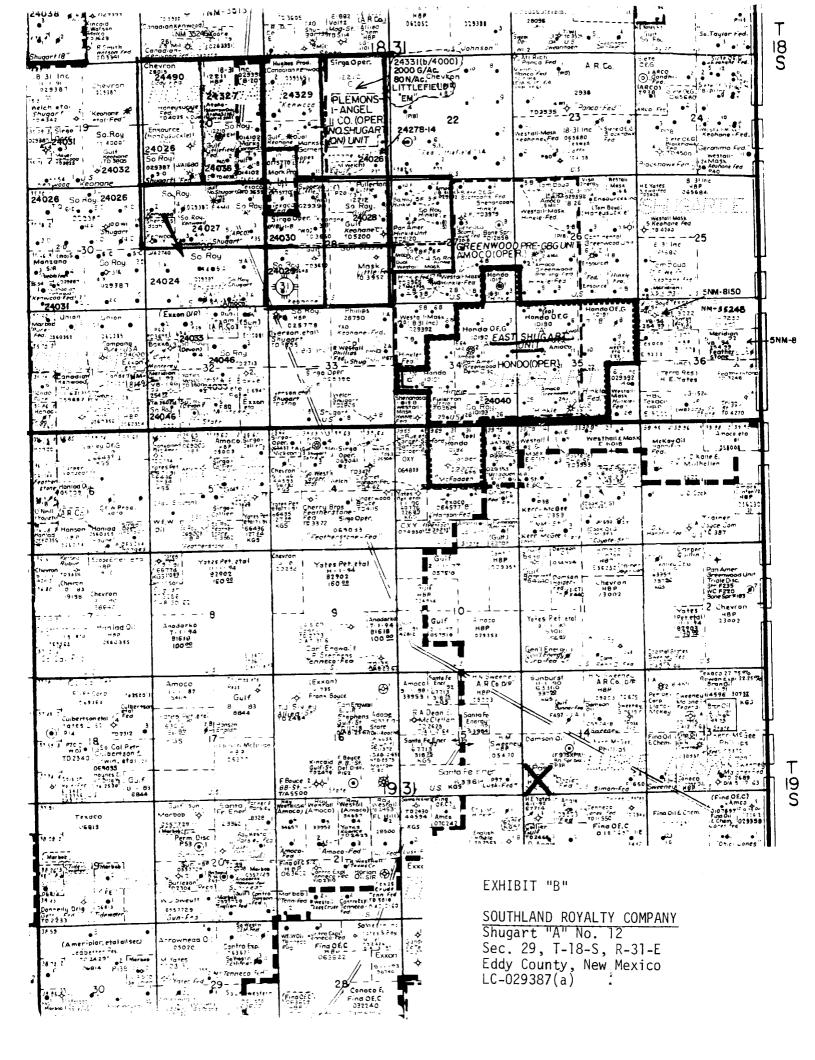
8 5/8" casing installation: 10" - 3M BOP stack to be installed and tested by an independent tester to 1500 psi before drilling the 8 5/8" casing shoe. The BOP stack is to consist of one blind ram BOP and one pipe ram BOP.

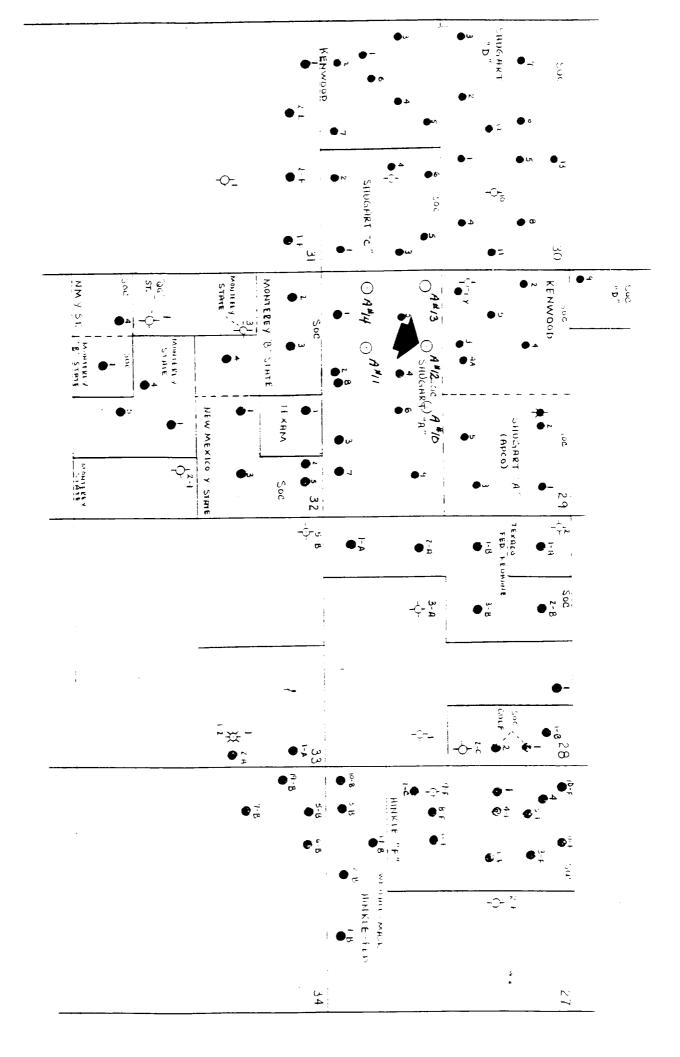
- 11. See Form 3160-3.
- 12. A. DST Program: None
 - B. Core: None
 - C. Mud Logging: Two-man unit 2400' TD, one-man unit
 - D. Wire Line Logs:

The following suite of logs will be run in both of the listed intervals:

CNL/LDT/GR/CAL TD - 2000' DDL/MSFL/GR TD - 2000' GR/CNL 2000' - Surface

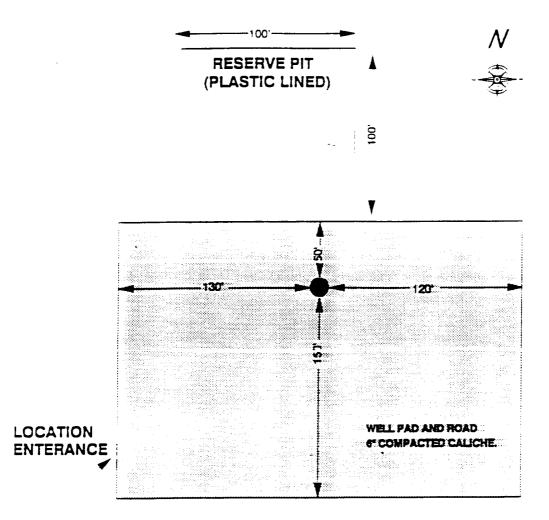
- 13. No abnormal pressures are anticipated. Bottom hole pressures to TD expected to be 500-5000 psi. Bottom hole temperature 105° F. Hydrogen sulfide expected to be <100 ppm. No crooked hole or abnormal deviation problems.
- 14. Anticipated starting date of spud on or about 08-10-91. Anticipated drilling time expected to be 10 days from surface to TD.





MERIDIAN 🚉 💷

MIDLAND REGION DRILL WELL LOCATION SPECIFICATIONS



- 400' x 400' WELL SITE

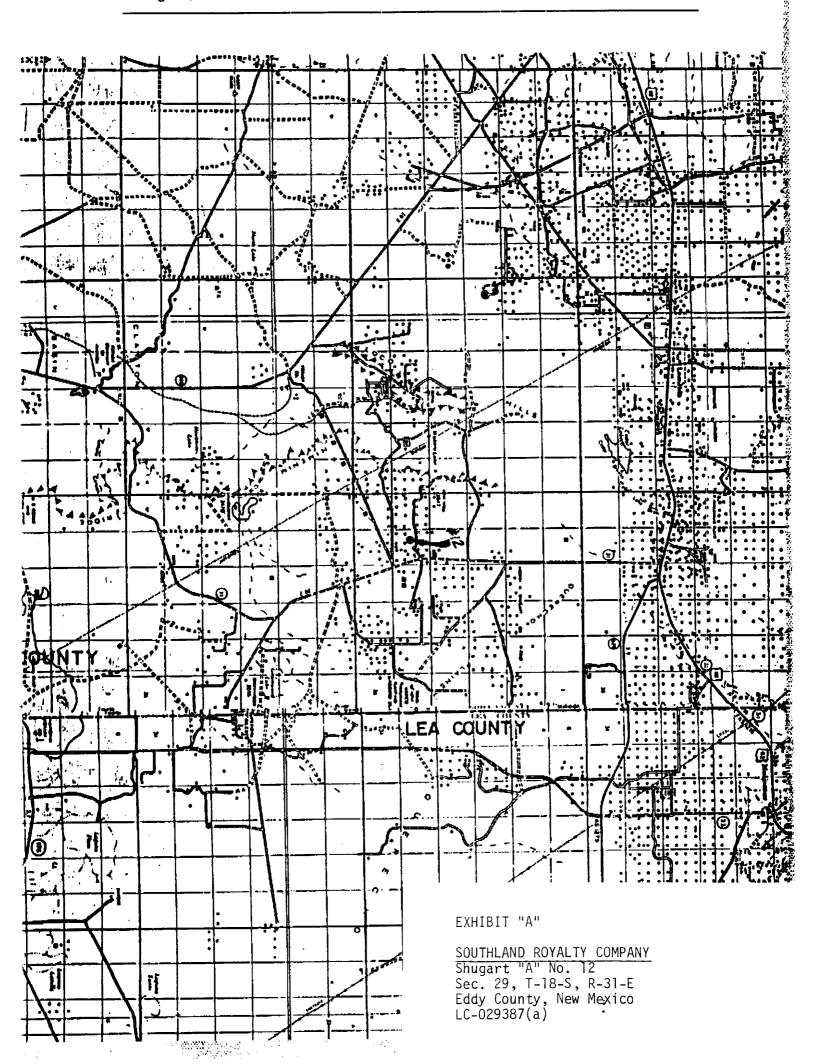
EXHIBIT "C"

SOUTHLAND ROYALTY COMPANY Shugart "A" No. 12 Sec. 29, T-18-S, R-31-E Eddy County, New Mexico LC-029387 Well Name: Location: Directions: Shugart A No.12

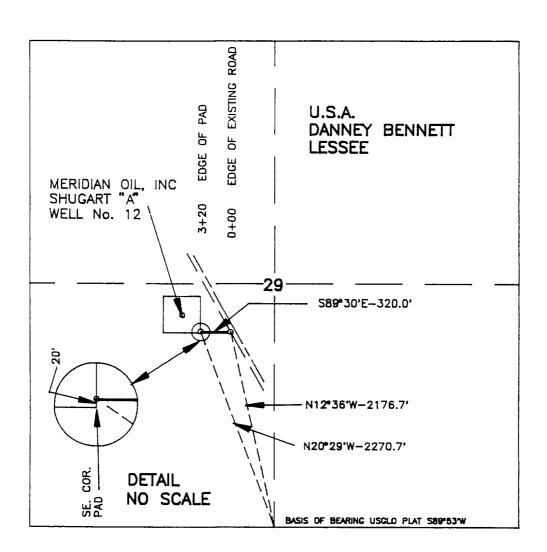
2310/S & 1650/W, Sec. 29, T.18S., R.31E., Eddy Co., NM

From Loco Hills, go east on highway 82 6 miles to St. Hgwy. 31. Go south on ST. Hgwy. 31. 7 miles to a caliche road. Turn right and

go 2/3 mile and then north 2/3 mile to loc.



SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY.





A STRIP OF LAND 50.0 FEET WIDE, AND 320.0 FEET OR 0.06 MILES IN LENGTH, BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED SURVEY OF CENTERLINE.

NOTE:

THIS ROAD CONNECTS AN EXISTING ROAD TO THE SHUGART "A" WELL No. 12

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE AND THE ABOVE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SHUGART "A" #12 ROAD

SOUTHLAND ROYALTY COMPANY

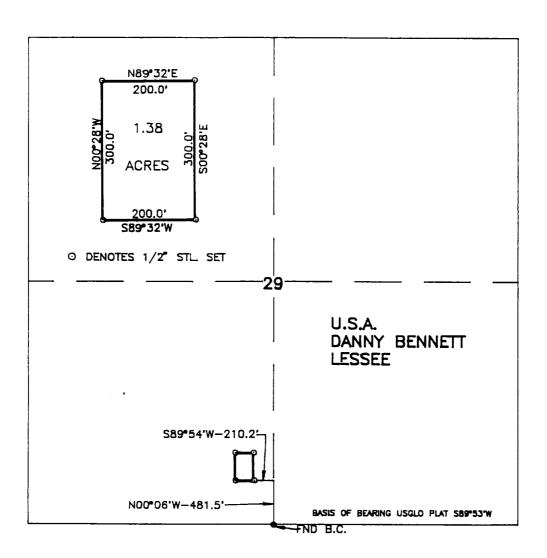
A PROPOSED ROAD CROSSING FEDERAL LAND IN SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN W. WEST ENGINEERING COMPANY
CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Survey	Date: 4/18	5/91	Drawn (Зу:	PRESL	ΕY	
Approve	od By:		Sheet	1	of	1	Sheets
Project	Number: 91	-04-042	File Nar	ne:	MOSH	RD12	2
Date:	4/17/01	Niek. II P	-1 *	50	oler 1	- 1	າດດາ

JOHN W. WEST, N.M. P.E. & P.S. No. 676
TEXAS P.L.S. No. 1138
GARY L. JONES N.M. P.S. No. 7977
GARY G. EIDSON TEXAS P.L.S. No. 4735

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., NEW MEXICO EDDY COUNTY,



LEGAL DESCRIPTION

A TRACT OF LAND LOCATED IN SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS.

BEGINNING AT A POINT WHICH LIES NO0°06'W A DISTANCE OF 481.5 FEET AND S89°54'W A DISTANCE OF 210.2 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 29; THENCE S89°32'W A DISTANCE OF 200.0 FEET TO A POINT; THENCE N00°28'W A DISTANCE OF 300.0 FEET TO A POINT; THENCE N89°32'E A DISTANCE OF 200.0 FEET TO A POINT; THENCE S00°28'E A DISTANCE OF 300.0 FEET TO THE POINT OF BEGINNING, CONTAINING 1.38 ACRES, MORE OR LESS.



I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE AND THE ABOVE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

N.M. P.E. & P.S.

JOHN W. WEST,

TEXAS P.L.S.

No. 676 No. 1138

No. 7977

GARY L. JONES N.M. P.S. GARY G. EIDSON TEXAS P.L.S.

No. 4735

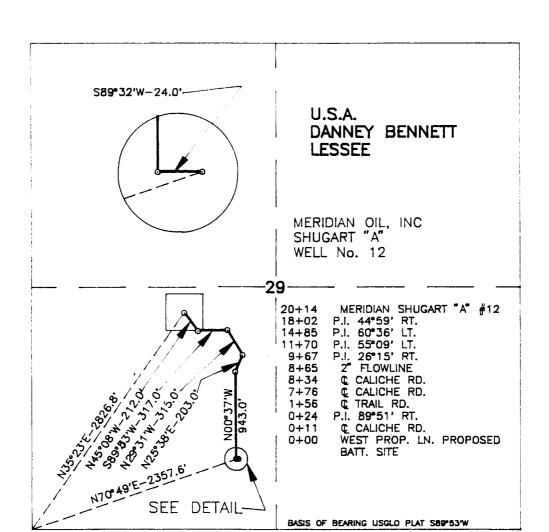
SOUTHLAND ROYALTY COMPANY

A TRACT OF LAND LOCATED ON FEDERAL LAND IN SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Survey Date: 4/16/91	Draw	n By:	PRESI	ΕY	
Approved By:	Shee	t 1	of	1	Sheets
Project Number: 91-04-0	044 File	Name: M	OBAT	29	
Date: 4/17/91 Disk:	JLP-1	Scal	e: 1	=10	000.

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO



LEGAL DESCRIPTION

A STRIP OF LAND 50.0 FEET WIDE, AND 2014.0 FEET OR 0.38 MILES IN LENGTH, BEING 25.0 FEET RIGHT AND 25.0 FEET LEFT OF THE ABOVE PLATTED SURVEY OF CENTERLINE.

NOTE:

THIS PIPELINE CONNECT A PROPOSED TANK BATTERY SITE TO THE SHUGART "A" WELL No. 12.



I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE AND THE ABOVE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W WEST, N.M. P.E. & P.S. No. 676
TEXAS P.L.S. No. 1138
GARY L. JONES N.M. P.S. No. 7977
GARY G. EIDSON TEXAS P.L.S. No. 4735

SHUGART "A" #12 FLOWLINE

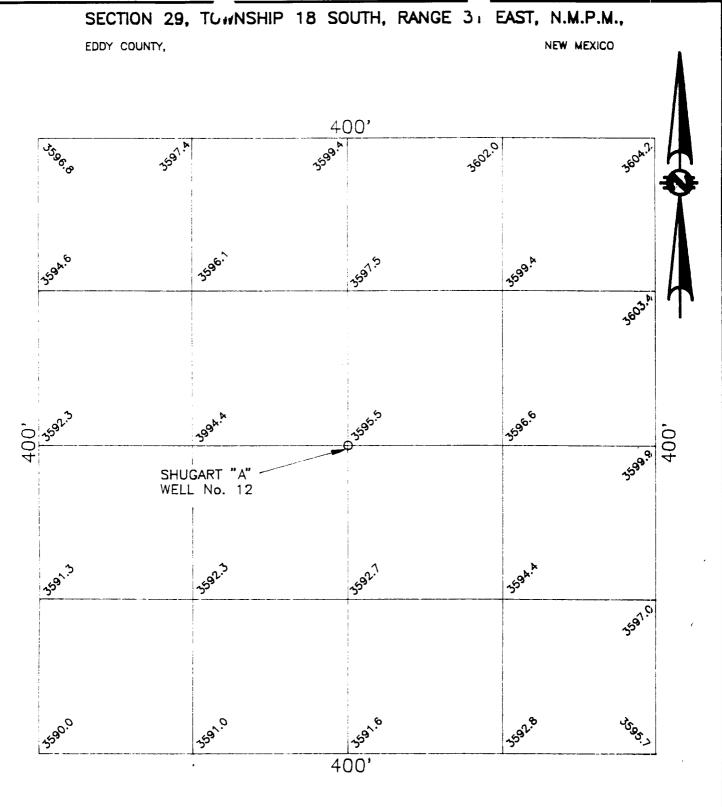
SOUTHLAND ROYALTY COMPANY

A PROPOSED FLOWLINE CROSSING FEDERAL LAND IN SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN W. WEST ENGINEERING COMPANY

CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Survey	Date: 4/16	/91	Drawn E	By:	PRESL	EΥ	
Approve	d By:		Sheet	1	of	1	Sheets
Project	Number: 91-	-04-043	File Nan	ne:	MOSH	L12	
Date:	4/17/91	Disk: JLP	-1 *	Sc	ale: 1	*=1(000'





I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE AND THE ABOVE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JOHN W. WEST, N.M. P.E. & P.S. No. 676
TEXAS P.L.S. No. 1138

GARY L. JONES N.M. P.S. GARY G. EIDSON TEXAS P.L.S.

No. 7977 No. 4735 SHUGART "A" #12 GRID

SCUTHLAND ROYALTY COMPANY

A 100 FOOT GRID AROUND THE SHUGART "A" WELL No. 12, LOCATED IN SECTION 29, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN W. WEST ENGINEERING COMPANY CONSULTING ENGINEERS & SURVEYORS - HOBBS, NEW MEXICO

Survey Date: 4/16/91	Drawn By: PRESLEY
Approved By:	Sheet 1 of 1 Sheets
Project Number: 91-04-041	File Name: MOSHGR12
Date: 4/17/91 Disk: JLF	-1 Scale: 1=60°