Form 3160-3 (July 1989) (formerly 9-3	331 G)_{M OII} C Dress DE	UNITED S PARTMENT O BUREAUS OF CLANI	F THE IN		CONTACT OFFICE FOI OF COPIES (Other instructive reverse side	R ABER REQUIRED tions on	Modified For NM060-316	orm No. 50-2 JS- GNATION A	265 ND SERIAL 228 (-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
APPLICA	ATION FOR	PERMIT TO D	ORILL, [DEEPEN	, OR PLUG	BACK	6. IF INDIAN, A			
1a. TYPE OF WORK b. TYPE OF WELL	DRILL 🛭	DI	EPEN [PLUG BA	CK 🗆	7. UNIT AGREEM	MENT NAM	ιE	<u></u>
OIL GAS SINGLI OTHER ZONE				SINGLE ZONE	MULT ZONE	IPLE	8. FARM OR LEASE NAME			
2. NAME OF OPERATOR Meridian Oil Inc.					3a. AREA CODE & 915-686-56		Benson "3" Federal			<u>al</u>
3. ADDRESS OF OPERATOR 21 Desta Dr., Midland, TX 79705					ادران المارية	6 10. FIELD AND POOL, OR WILDCAT				
4. LOCATION OF W	ELL (Report location	clearly and in accord	ance with an	y State require			Shugart (Y, SR, Q, GB)			201
At surface 480' 2310' FSL & 330' FEL At proposed prod. zone			ut.	t. I DEC 3'90			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA			<u> </u>
Same	I ES AND DIRECTION	FROM NEAREST TOWN	OP POST OFFI	re*		C. D.	Sec.		S, R301	
	outheast of Ma				-	A, OFFICE	Eddy	PARISH	13. STAT	
15. DISTANCE FROM LOCATION TO NI PROPERTY OR L	EASE LINE, FT.	330'		16. NO. OF AC	RES IN LEASE		F ACRES ASSIGNED			<u></u>
(Also to neares	t drig. unit line, if a	*	· · ·	19. PROPOSED	320 DEPTH	20. ROTA	RY OR CABLE TOO	40 LS	·	
TO NEAREST WI	ELL, DRILLING, COMP R, ON THIS LEASE, F	ETED, T. 1320	,		3500'		Ro	tary		
	ow Whether DF, RT,	GR, ETC.)	Capite	n Contre	olled Wate	or Roula	22. APPROX.			
3423' GR.	3451	PROPOSE			ENTING PROGR		10.140		er 1990	
WOLE CITE	CACING CIZE			· · · · · · · · · · · · · · · · · · ·			111-P Pote	T		ry's Potasi
12-1/4"	8-5/8"	WEIGHT/FOOT 24	GRAD K-	55	THREAD TYPE STC	SET	SETTING DEPTH		450 sx-Circulate	
7-7/8"	5-1/2"	15.5	K-	55	LTC		3500'		x-Circ	
Drill 12-1/4" hole to 500'. Set 8-5/8" csg @500' and cmt w/450 sxcirculate. Drill 7-7/8" hole to 3500'. Set 5-1/2" csg @3500' and cmt w/700 sxcirculate. MUD PROGRAM: 0-500' fresh water gel and lime; 500'-3500' salt water; MW 9.8-10.2; no abnormal pressures or temperatures expected. BOP PROGRAM: 10" 3M BOP stack to be installed on the 8-5/8" and left on for the remainder of the drilling. The stack is to consist of an annular BOP, a blind ram BOP, and one pipe ram BOP. Test the BOP's using an independent tester after setting the 8-5/8" csg.										
macpendent t	ester arter se	tung the 0-070	56 - 45 - 4 - 13 - 14 - 15				7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 11 10	RECEIVED
APPROVA	L SUBJECT TO		tija del					ÂCY	U W	m
GENERAL	REQUIREMENT	AVO			ada a toma. National Albert	one i de Casa	y diffusible iT	TC		O
	STIPULATIONS		್ವಾಹಿನ ಕರ್ನಾಟಕವೆ ನ	·	ing swarp of	a kuf s		世書	4	
IN ABOVE SPACE DES If proposal is to dril if any.	CRIBE PROPOSED PRO	GRAM: If proposal is t ally, give pertinent da	o deepen org ita on subsur	olug back, giv face locations	ve data on presen s and measured a	nt productive and true verti	zone and proposi cal depths. Give	ed new p	roductive	zone. program,
SIGNED SIGNED	MLB	raldow	TITLE	Sr. Sta	iff Env./Reg	. Speciali	St DATE _	16 Oct	tober 1	990
(This space for Fe	deral or State office	use)								
PERMIT NO				APPROV	/AL DATE	-				
APPROVED BYCONDITIONS OF A	APPROVAL, IF ANY:	1 *** *** 1	TITLE	11. The second s		· ·	DATE	11.3	3. 40	<u></u>

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

V. LYNN BEZNER, R.L.S. #7920

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No Operator 6 BENSON 3 FEDERAL MERIDIAN OIL INC. County Section Township Unit Letter EDDY 30 - EAST 19 - SOUTH NMPM Actual Footage Location of Well: 4801 EAST feet from the line SOUTH 23101 feet from the line and Dedicated Acreage: Pool Ground level Elev. Producing Formation SHUGART 40 Y, SK, Q, G 3451 Acres 1. Outline the acreage dedicated to the subject well by colored peacif 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 interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation Yes If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse aide of this form if neccessary. 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 in true and complete to the best of my knowledge and belief robert L. Brook Signature ROBERT L. BRADSHAW Printed Name SR. STAFF ENV/REG SPEC. Postuon MERICIAN OIL INC. Company NOVEMBER 20, 1990 Date 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 supervison, and that the same is true and correct to the best of my knowledge and belief NEW Date Surv CTOBER 31. HE & SENIE LYNN 2310 AND SUMBEZNER NO. 7920 STEPEO LAND Certificate No.

1000

1500

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2000

2640

1980 2310

1320

1650

SURFACE USE PLAN

Meridian Oil Inc.

Benson "3" Federal #6 2310' FSL & 330' FEL Sec. 3, T-19-S, R-30-E Eddy County, New Mexico NM-29228

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 Topographic Land Surveys plat showing the location of the proposed well as staked.

Directions to the well are as follows: From the junction of US 180 and Hwy. 360, 15 miles east of Carlsbad, go north 11.6 miles on Hwy. 360, thence northeast 1.9 miles on County Road 251, thence 1.5 miles on County Road 250, thence south 0.6 mile to a point 1100' west of t^h e NE corner of Section 3.

2. Planned Access Road:

a. An existing lease road will be used. An 1100' access road will be constructed to the well site per BLM standards.

3. Location of Existing Wells in Area:

See Exhibit "B"

4. Location of Proposed Facilities:

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. Surface Use Plan Benson "3" Federal #6 page two

6. Source of Construction Material:

Caliche for surfacing access road and pad will be obtained from an existing pit located in the NE/4 SE/4 of Sec. 29, T18S, R31E.

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 special trash bin 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.
- 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 will be submitted when ready.

11. Land Use:

Grazing and hunting - Federal

Surface Lessee -Snyder Ranch c/o Mr. Larry Squires P.O. Box 726 Lovington, NM 88260 Surface Use Plan Benson "3" Federal #6 page three

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. P. O. Box 837 Hobbs, New Mexico 88240 Office: 505-393-5844

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: 10/16/90 S.J. Van Howe
Drilling Engineer
Meridian Oil Inc.

RLB/bn

Meridian Oil Inc.

Benson "3" Federal #6 2310' FSL & 330' FEL Sec. 3, T-19-S, R-30-E Eddy County, New Mexico NM-29228

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:

Yates	2,050	Queen Sand	2,950'
Seven Rivers	2,325'	Grayburg	3,430'

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

Queen 2,950' - 0il

- 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/450 sx C1. "C" cmt + 2% CaCl₂.
 - b. 5 1/2" csg: Cement w±450 sxs C1 "C" Lite and tail in w/250 sxs C1 "C".

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

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 3,000 psi before drilling the 8 5/8" casing shoe. The BOP stack to consist of an annular BOP, a blind ram BOP, and one pipe ram BOP.

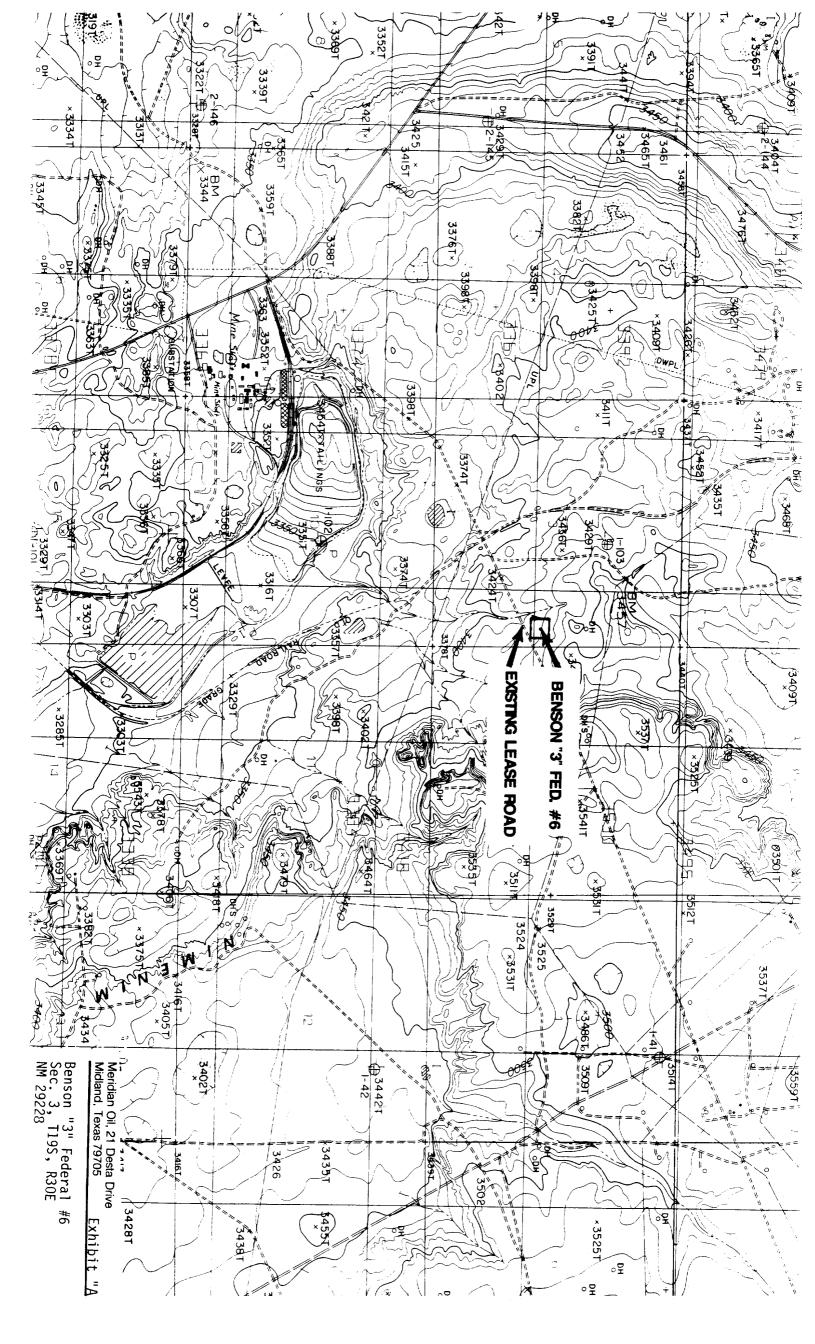
Supplement to USGS Form 3160-3 Benson "#" Federal #6 page two

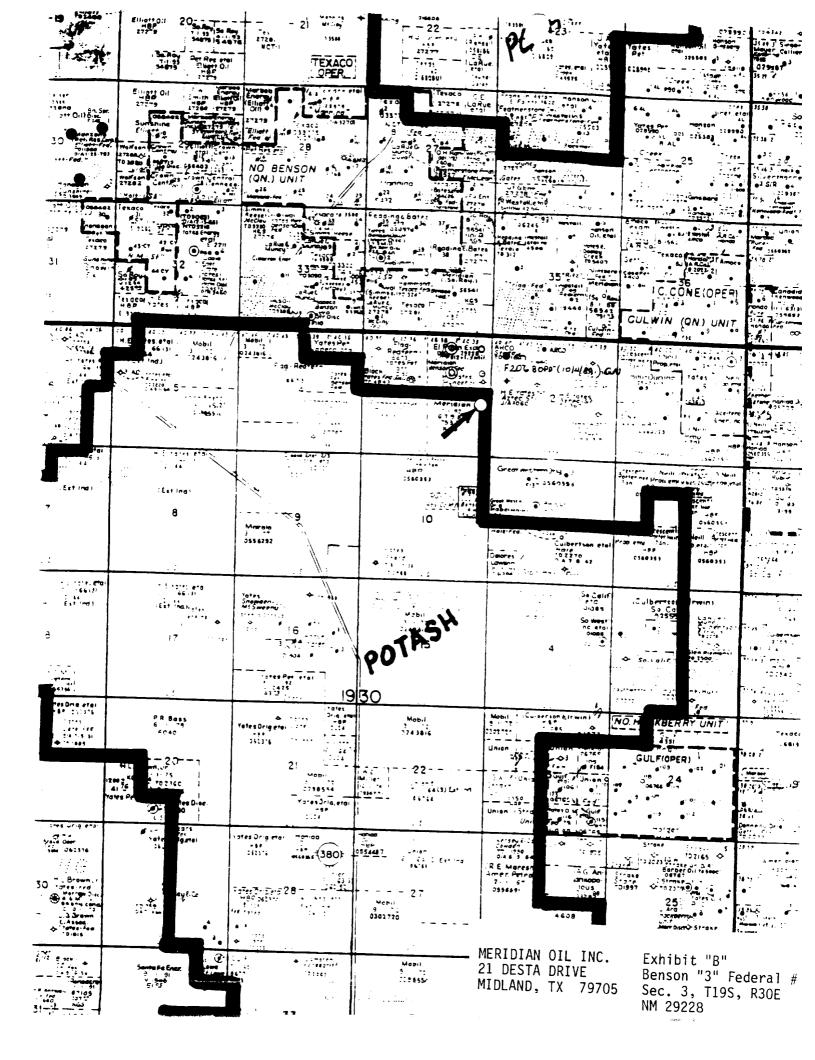
- 11. See Form 3160-3
- 12. A. DST Program: None
 - B. Core:
 - C. Mud Logging: 2000' to TD, one-man unit
 - D. Wire Line Logs:

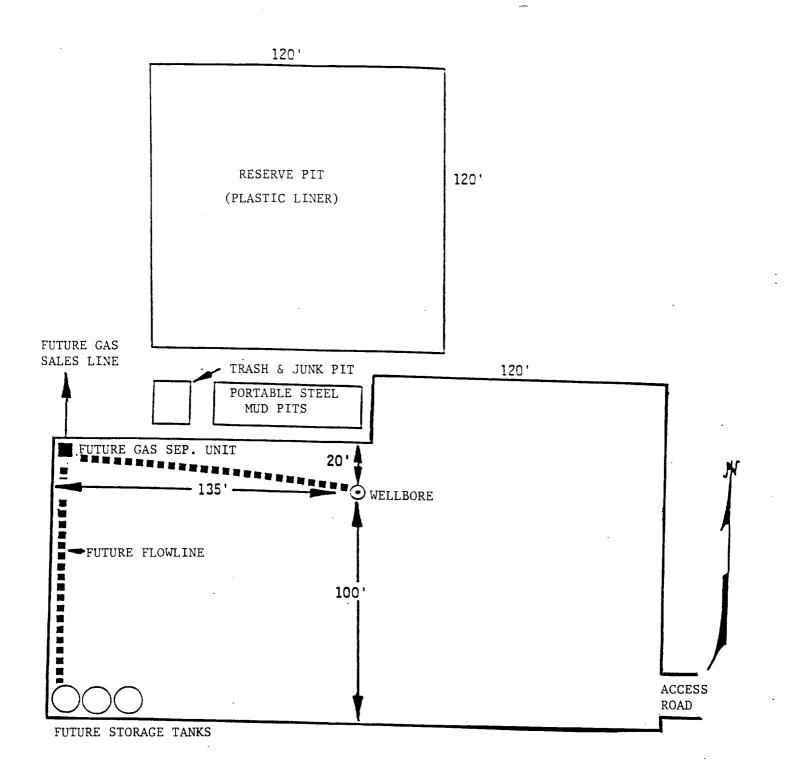
The following suite of logs will be run in both of the listed intervals:

CNL/LDT TD - 2000' (GR/CNL to surface) DLL/RXO TD - 2000'

- 13. No abnormal pressures are anticipated. Bottom hole pressures at TD expected to be 1600 psi. Bottom hole temperature 100° 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 11-15-90. Anticipated drilling time expected to be 10 days from surface to TD.

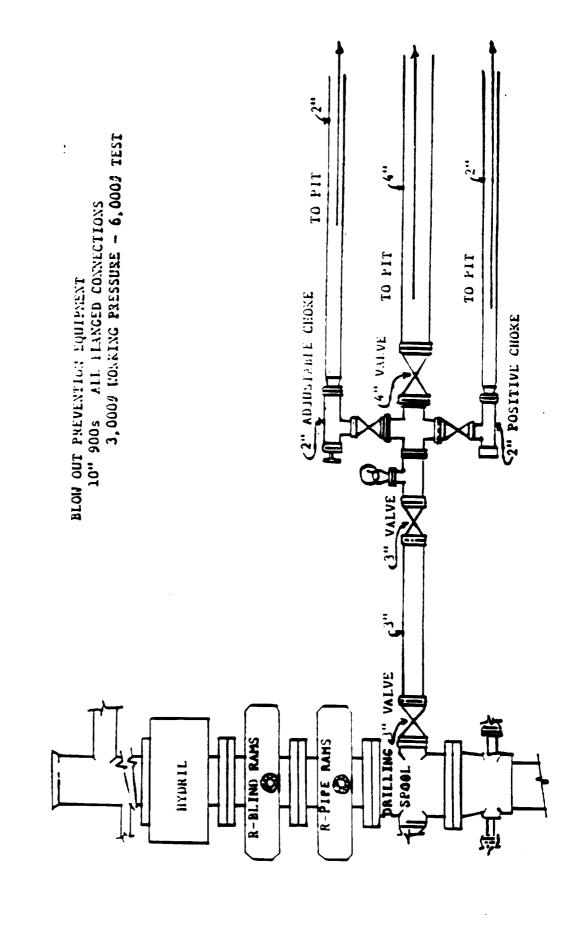


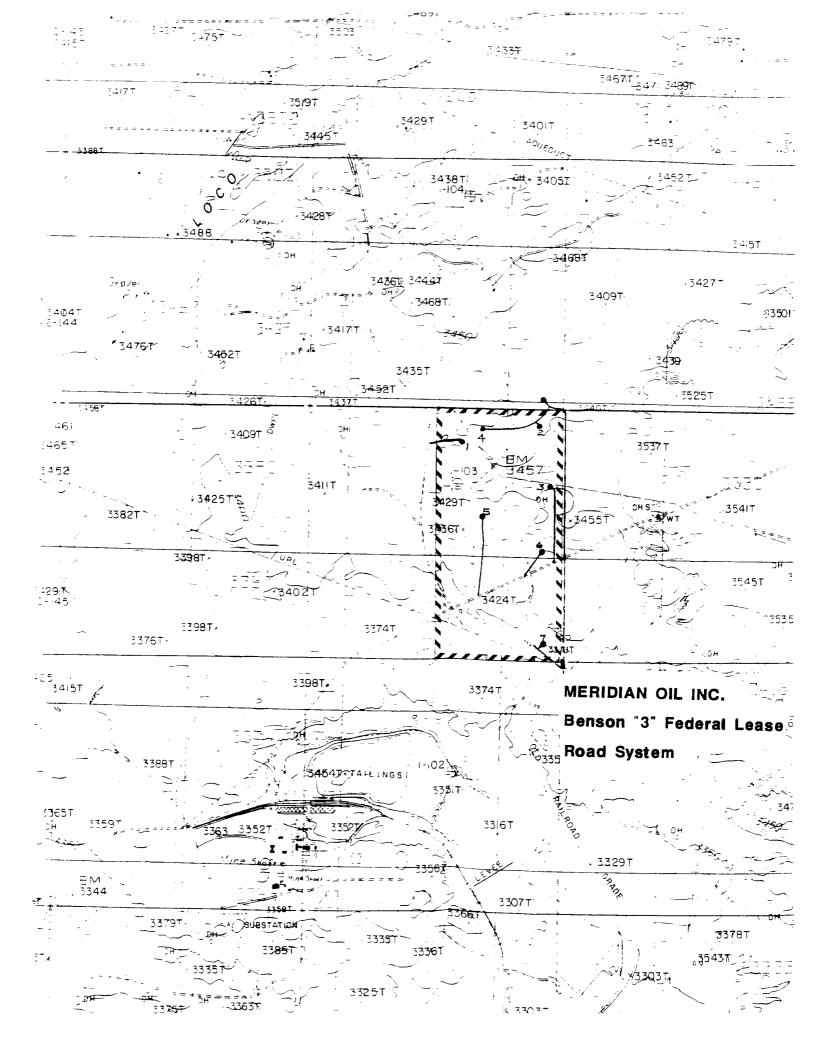




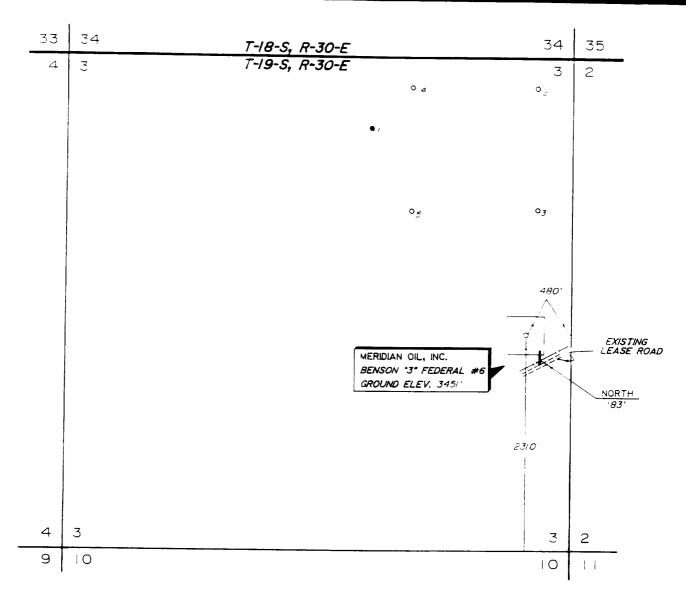
Meridian Oil, 21 Desta Drive Midland, Texas 79705

Exhibit "C"

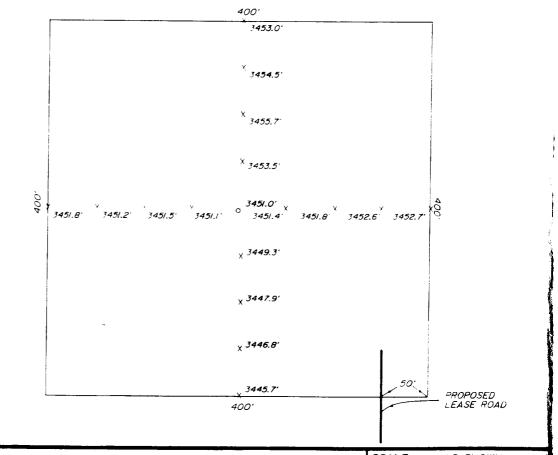




HE JCT. OF U.S. 180 & HWY 360, 15 MILES EAST (
RLSBAD, GO NORTH 11.4 MILES ON HWY 360, THENCE
NORTHEAST 1.8 MILES ON COUNTY ROAD 251, THENCE EAST 0.9 MILES ON COUNTY ROAD 250, THENCE SOUTHEAST MILES, ON A LEASE ROAD, THENCE NORTHEAST 0.3 MILE ON A LEASE ROAD TO THE SOUTHEAST CORNER OF PAL







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9	REVISION		DATE	BY
	EYED BY .	G.1	3.	
MAI	IN BY	С.	S.	
APT	OVED BY	D.I	R.K.	

DETAIL VIEW

MERIDIAN OIL INC.

MIDLAND, TEXAS

TOPOGRAPHIC LAND SURVEYORS

MIDLAND, TEXAS

SCALE .	AS SHOWN					
DATE !	OCTOBER 31, 1990					
JOB NO.	80712					
DRAWNS	NUMBER 1					

SHEET

73 NW