clsk

Form 3160-5 (June 1990)

# UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

		rvba ee				
5.	Lease	Designa	tion and	Serial	No.	•
_						

12 1/4" 7 7/8"	GRADE, SIZE OF CASHID  8 5/8" J-55  5 1/2" J-55	# # # # # # # # # # # # # # # # # # #	560' 4200'	450 Sx Class C (Circ) 1000 Sx Class C CIRCULATE
12 1/4" 7 7/8"	8 5/8" J-55 5 1/2" J-55	24.0#	560'	450 Sx Class C (Circ)
	8 5/8 <sup>11</sup> .T-55	24.0#	560'	450 Sx Class C (Circ)
	GRADE, STEE OF CASHID			
	P			QUARTITY OF CRIMMY
		ROPOSED CASING AND	CEMENTING PROGRAM	
WE PROP	POSE THIS CHANGE	IN OUR PIPE PRO	GRAM. SEE BEL <i>OW</i>	OEIVE
give subsurface for	ompleted Operations (Clearly state: eations and measured and true vert	ical depths for all markers and	i zones pertinent to this work.)*	
Describe Description Co	overlessed Operations (Clearly state	all pertinent details, and give p	ertinent dates, including estimated	Completion or Recompletion Report and Log fort date of starting any proposed work. If well is directionally dri
Pinel A	bandonment Notice		Conversion to Injection  Dispose Water (Note: Report results of multiple completion on W	
L_i Subsequ	uent Report		agging Back aing Repair	Water Shut-Off
Notice (	of Intent	□ Re	completion	New Construction Non-Routine Fracturing
	SUBMISSION	ļ <u></u>	andonment	XX Change of Plans
		(s) TO INDICATE I		E, REPORT, OR OTHER DATA
			LATURE OF NOTICE	
	400' FWL, Sec 3-			Eddy Co., NM
P.O. BOX 37 Location of Well (Feets	, LOCO HILLS, NM ge, Sec., T., R., M., or Survey I		Off Seed	Grayburg-Jackson Pool
Address and Telephone	No.	99255 /505)	677-3223	30-015-27109 10. Field and Pool, or Exploratory Area
Name of Operator	ROLEUM COMPANY		0.01	9. API Well No.
Type of Well  Oil  Well  Well  Well	Other	/	,	8. Well Name and No. H.E. WEST ''B'' # 50
	SUBMI	T IN TRIPLICATE	RECEIVE	<del>i</del>
`				7. If Unit or CA, Agreement Designation
	orm for proposals to d	rill or to deepen or i	eentry to a different re	reservoir.
Do not use this fo		AND REPORTS C	N WELLS	6. If Indian, Allottee or Tribe Name
Do not use this fo	SUNDRY NOTICES			LC 029426-B

Title 18 U.S.C. Section 1001, makes it a crime for any person knowlegly 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.

Form 3160-3 (December 1990)

SUBMIT IN TI

50-016-27109
Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991

UNIT	ED S	STATI	ES :	1.1.3	
DEPARTMENT	OF	THE	INT	ER	IOF

5.	LEASE	DESIGNATION	AND	SERIAL	NO.

	BUR	EAU OF	LAND MANA	GEMEI	NT SEP (	9 19	92	LC 029426-	-R
APPL	ICATION	FOR PE	RMIT TO	DRIL	L OR DEE	EM.	·		TTEE OR TRIBE NAME
a. TYPE OF WORK						- CALL	<u>~ E</u>		
	ILL X		DEEPEN					7. UNIT AGREEMEN Keel-West	Waterflood
b. TYPE OF WELL OIL (37) G	AS [			R	INGLE (G)	MULTIP			Projec
WELL X C	VELL	OTHER I	N-FILL WEL	L z	ONE X	ZONE	<u>"                                    </u>	8. FARM OR LEASE NAM	
. NAME OF OPERATOR				/				H.E. West	'B" No.50
			EUM COMPAN	Y				9. API WELL NO.	
ADDRESS AND TELEPHONE NO.	P.O. BO				Ph.505-677	-3223			
	Loco Hi	lls, Nev	w Mexico 8	8255				10. FIELD AND POO	-
LOCATION OF WELL (F	teport location	clearly and	in accordance wit	th any i	State requirement	8. <sup>4</sup> )		✓ Grayburg-	Jackson Poo
50'FSL, 140	OFWL, Sec	.3, T.1	7S., R.31E		ĹĬ	Jnit 1	1)	11. SEC., T., R., M., AND SURVEY O	OR BLK.
At proposed prod. zor			,		<u>_</u>	SESW)	·/		
					•			1	17 <b>S.,</b> R.31E.
. DISTANCE IN MILES	AND DIRECTION	FROM NEAR	EST TOWN OR POS	T OFFIC	E.			12. COUNTY OR PAR	ISH 13. STATE
7 Air miles	northeast	of Loc	o Hills, N	ew Me	exico			Eddy	N.M.
DISTANCE FROM PROP LOCATION TO NEARES	USED*			16. N	O. OF ACRES IN LI	LASE		F ACRES ASSIGNED	<u>'</u>
PROPERTY OR LEASE !	LINE, PT.	nnv. 1	400 <b>'</b>		1919.88 Ac		70 T	HIS WELL 40	
. DISTANCE FROM PROI	OSED LOCATION	•		19. Pi	ROPOSED DEPTH		20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, I	RILLING, COMPL H <mark>is Leabe, Ft.</mark>		900 <b>'</b> ±		4900'		Po+	ary	
L ELEVATIONS (Show wh	ether DF, RT, (	GR, etc.)			4500		ROC		WORK WILL START
3926.5 GL								As Soon A	s Possible
J			DODOSED CAS	NG 4 N	D CEMENTING P		<del></del>	As Soon A	3 POSSIBLE
	1				·			···	
SIZE OF HOLE	GRADE, SIZE O	<del></del> }-	WEIGHT PER FO	00T	SETTING DEP	TH ————		QUANTITY OF CE	
17-1/2"	13-3/8"	<u>J-55</u>	54.5#		570'			sx Class C	
12-1/4" 7-7/8"	8-5/8" 5-1/2"	<u>J−55</u> J−55	24.0# 17.0#		1750' 4900'			sx Class C	
Graybu Set 5- circul Run 2- Sand-fi	rg produce 1/2" produce ate to the 7/8" tubin rac forma	er. Sta uction of e surface ng to pe tion and	ate approvements as ing to consider the constant of the consta	al of TD, o tivel s and tanks	f the unort cemented wi ly perforat d treat for	hodox th su e fav	locat fficie orable	Pa	ng. ones. I I O - 1
		illing 1	Data and S	urfac	ce Use Plan	•		9	-11-92 Lac + A1
APPROVAL SUBJEC	T TO							Duser	Lac + Al
GENERAL REQUIRE	MENTS AND	)						<b>/</b> /	
SPECIAL STIPULAT	TIONS								
ATTACHED									
ABOVE SPACE DESCRIB	E PROPOSED PR	OGRAM: If p	roposal is to deepen,	give data	a on present producti	ve zone a	nd proposed	new productive zone.	If proposal is to drill
epen directionally, give pert	inent data on subsu	untace locations	and measured and to	ue vertic	al depths. Give blow	out preven	ter program,	if any.	
	(a)								
SIGNED	W4 /1.	. Xv-	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	. Pe	ermit Agent			NATE Augu	st 21, 1992
JÆRRY	W. LONG		TIT	···				DATE	
(This space for Fede	ral or State of	ice use)	)						
PERMIT NO.	,		,		ADDDOVAL DAME				
					APPROVAL DATE				
Application approval does conditions of APPROVA		fy that the appli	icant holds legal or eq	uitable ti	tle to those rights in th	e subject le	ase which w	ould entitle the applicant	to conduct operations th

ANDA MAMAGEN

作為影響機能 医放射激性 4957

Berg. My next by Antonia to Manier

APPROVED BY

Form C-102 Revised 1-1-89

### OIL CONSERVATION DIVISION

<u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240

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

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

# WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

All Distances must be from the outer boundaries of the section

		1							
Operator SOCORR	O PETROLE	UM COMPANY	j	Lease	H.E. V	VEST "B"	,	Well No. 50	-
Unit Letter Sect	ion	Township	1	Range			County		
N	3	17 SOL	JTH		31 EAS	ИМОРЫ	.	EDDY	
Actual Footage Location	of Well:	•					<u> </u>		
50 feet from	the SO	UTH time and		1400		feet from	m the WES	T line	
Ground Level Elev.	Producing Fo			Pool		1000 1100		Dedicated Acrea	ge:
3926.5'	Grayb	urg-San Ar	ndres	Grayl	ourg-Ja	ckson F	ool	40	Acres
1. Outline the acreage		<del></del>				<del></del>		1	Acres
2. If more than one Single L	lease is dedic					-		ng interest and ro	yalty).
3. If more than one unitization, force-	lease of differ		dedicated to	the well, has	e the intere		rs been conso	lidated by commu	nitization.
Yes	No No	If answer is	yes" type of	consolidatio	n	NA			
If answer is "no" list this form necessary.						·			
No allowable will be otherwise) or until								nitization, force	d-pooling,
	Ţ			· · · · · · · · · · · · · · · · · ·			OPERA'	TOR CERTIFIC	ATION
	   			   			contained her	reby certify the the rein is true and con nowledge and belief.	-
				1			Signature		rug
	_ +		. — — — -	 <del>  +</del>	· <del></del>		Printed New JERRY Position	1	
	1						Permit	Agent	
	i			i			SOCORRO	PETROLEUM (	COMPANY
	1						August	21, 1992	
·	1	·		1			SURVEY	OR CERTIFIC	ATION
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	į			į			Date Surve	yed JGUST 6, 199	2
	l l			!			Signature		<del>-</del>
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1400'	# <b>@</b> ^K	<u> </u>		i			1/ 1/	RONALD U-EIC	SON, 3239
	-						- 3	GARY L. V	NES 7977
0 330 660 990	1320 1650	1980 2310 264	0 2000	1500	1000	500 0		927, 1-411,6	

#### SUPPLEMENTAL DRILLING DATA

SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Order No.1:

- 1. SURFACE FORMATION: Recent
- 2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

T. Salt	560 <b>'</b>	Queen	2700'
B. Salt	1740'	Grayburg	3100'
Yates	1900'	San Andres	3500'
Seven Rivers	2100'		

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Water - Possible groundwater from 0' to 300'

Oil - 2100' to TD

Gas - None anticipated

4. PROPOSED CASING PROGRAM:

13-3/8" Casing - Set 570' of 54.5#, J-55, Surface Casing

8-5/8" Casing - Set 1750' of 24#, J-55, Intermediate Casing

5-1/2" Casing - Set 4900' of 17.0#, J-55, Production Casing

All strings of casing will be satisfactorily tested to 1000 psi.

5. PRESSURE CONTROL EQUIPMENT: Install a 2M, Series 600 Type

"E" Shaffer Double Hydraulic BOP on the 8-5/8" casing from 13% casing prior to drilling into the Queen. Due to depleted nature of the reservoir, it is requested that a waiver be granted to test pressure control equipment to 1000 psi. using rig pump, instead of the normal 2000 psi. test. Exhibit D is a diagramatic sketch of the BOP equipment.

- 6. CIRCULATING MEDIUM: Drill with fresh water from surface to setting depth of surface casing. Drill remainder of hole with brine water, using additives to control water loss, viscosity and mud weight.
- 7. AUXILIARY EQUIPMENT: Equipment will include a gas detector, pit level monitor and a full-opening safety valve.
- 8. TESTING, LOGGING AND CORING PROGRAM:

Samples: Samples will be caught at 10' intervals

from below the surface casing to total

depth.

DST and Cores: None anticipated

Logging: Density-Neutron log

Gamma Ray-Neutron log

9. ABNORMAL PRESSURES, TEMPERATURES OR HYDROGEN SULFIDE:

No abnormal pressures or temperatures anticipated.

Precautions will be taken to monitor possible traces hydrogen sulfide gas in the Grayburg.

10. ANTICIPATED STARTING DATE: Drilling will commence upon Federal and State approval. Drilling and completion will require about 30 days.

#### PERTINENT INFORMATION

For

SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

LOCATED: 7 air miles northeast of

Loco Hills, New Mexico

FEDERAL LEASE NUMBER: LC 029426-B

LEASE ISSUED: 20 Year Renewal, Eff. March 1, 1991

ACRES IN LEASE: 1919.88 Ac.

RECORD LESSEE: Atlantic Richfield Company

BOND COVERAGE: Alta Corporation Statewide Bond

(Includes Socorro Petroleum Company)

AUTHORITY TO OPERATE: Transfer of Operating Rights to Socorro

SURFACE OWNERSHIP: Federal

GRAZING PERMITTEE: Caswell Ranches

c/o Olane Caswell

P.O. Box 615

Meadow, Texas 79345

POOL RULES: Keel-West Waterflood Project

EXHIBITS: A. Road and Contour Map

B. Lease and Well Map C. Drill Pad Layout

D. BOP Diagram

E. Flow Line/Power Map

#### MULTI-POINT SURFACE USE AND OPERATIONS PLAN

SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effects associated with the operation.

#### 1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a road map showing the location of the proposed well as staked. The well is approximately 7.0 air miles northeast of Loco Hills, New Mexico.
- B. <u>Directions</u>: Go east from Loco Hills, N.M. on Hwy. 82 for a distance of 3.5 miles. Turn north on Skelly Road, which is County Road 221. Go 1.4 miles to caliche lease road. Follow lease road northeast and east a distance of 1.3 miles. Go 0.5 mile north. Turn east and go 2.2 miles on lease road to the No.40 well. Turn left (North) and go 500' to new access road. The proposed well will be located about 500' east.

#### 2. PLANNED ACCESS ROAD:

- A. Length and Width: The new road will be about 500' long and about 12' wide.
- B. <u>Surfacing Material</u>: The new road and well pad will be surfaced with 6" of caliche.
- C. Maximum Grade: Less than 1%
- D. Turnouts: No traffic turnouts are necessary.
- E. Drainage Design: The road will be constructed with a 6" crown to provide proper drainage.

- F. Culverts: None necessary
- G. Cuts and Fills: Construction of the drill pad will require leveling of 6' sand dunes. Surface soil will be stock-piled on the edge of the location for use in rehabilitating the disturbed area.
- H. Gates, Cattle Guards: None necessary

#### 3. LOCATION OF EXISTING WELLS:

#### A. See Exhibit B

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. The flow line for the No.50 well will be constructed beside the new road and then along the existing lease road to the H.E. WEST "B" No.4 battery, located in the SENW of Sec.10. The flow line will be 2" steel pipe laid on the surface.
- B. The power line will be constructed from the No.50 well, beside the new road, a distance of 400' to the existing lease power line. See EXHIBIT E.

#### 5. LOCATION AND TYPE OF WATER SUPPLY:

A. Fresh water for drilling from surface to 570' will be obtained from a commercial source and trucked over existing roads. Lease brine water will be used to finish drilling and completing.

### 6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the road and pad will be purchased from a Federal pit located in the SESE Sec.5-17S-31E.

# 7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during test will be disposed of in the drilling pits. Oil produced during test will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.

Burial of trash on-site is prohibited.

E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "C".

F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

#### 8. ANCILLARY FACILITIES:

A. None required

#### 9. WELL SITE LAYOUT:

- A. The wellsite, surrounded by a 400' X 400' area has been surveyed and flagged.
- B. Dimensions and relative location of the drill pad and pit are shown on <a href="Exhibit C">Exhibit C</a>.

#### 10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the well is non-productive the disturbed area will be rehabilitated to surface owner requirements and will be accomplished as expeditously as possible.

### 11. OTHER INFORMATION:

- A. Topography: The wellsite and access road are flat, except for sand dunes. The project area generally drains southwest toward Cedar Lake Draw. Construction of the drill pad will require leveling of 4' sand dunes and surfacing with caliche.
- B.  $\underline{\text{Soil}}$ : The surface soil is fine sand with occasional caliche and chert inclusions.

- C. Flora and Fauna: Vegetation consists of oak shinnery, mesquite, sagebrush, yucca, and various weeds and grasses. Ground cover is about 15%. Wildlife in the area is that typical of semi-arid desert land, such as coyotes, rodents, reptiles and birds.
- D. Ponds or Streams: None
- E. Residences and Other Structures: None in this area.
- F. Archaeological, Historical and Other Cultural Sites:
  A review by Archaeological Survey Consultants indicated that there are no cultural sites within the project area. An Archaeological report has been furnished to BLM.
- G. Land Use: The surface is used for cattle grazing.
- H. Surface Ownership: The drillsite and access road are located on Federal surface. The grazing lessee is Caswell Ranches, P.O. Box 615, Meadows, Texas 79345.

#### 12. OPERATOR'S REPRESENTATIVE:

Representative responsible for assuring compliance with the approved Surface Use Plan:

Mr. Robert Setzler P.O. Box 37 Loco Hills, New Mexico 88255 Phone 505-677-2360

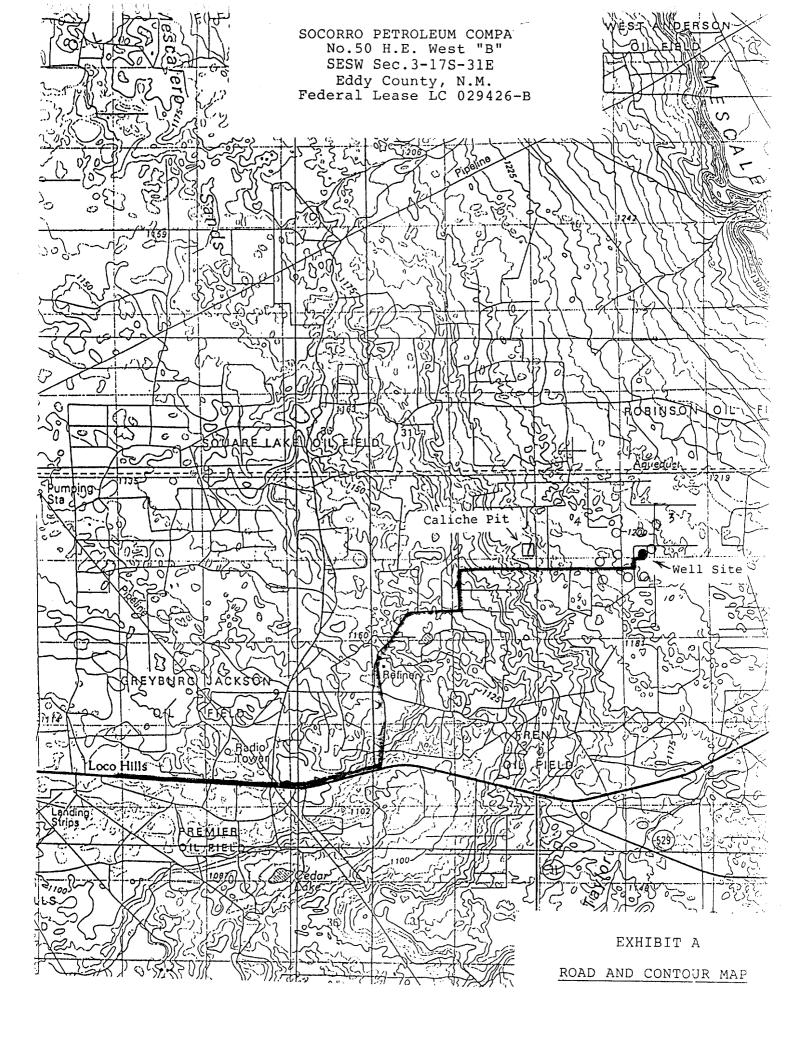
#### 13. CERTIFICATION:

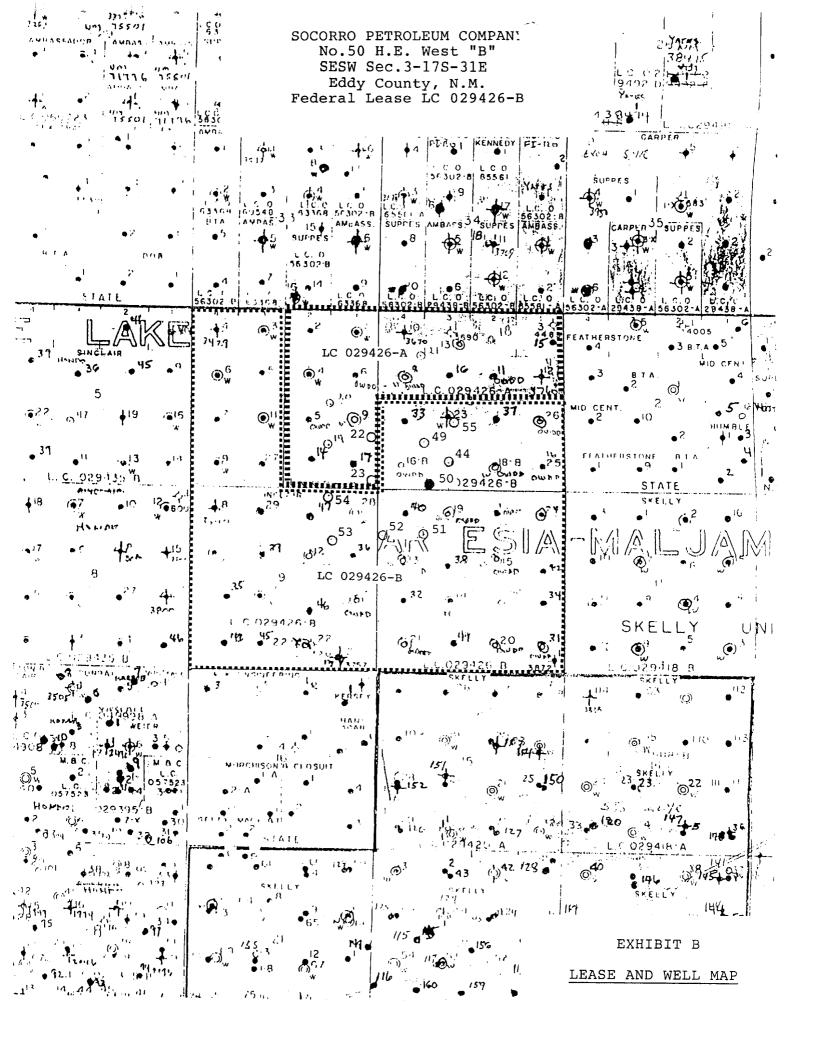
I hereby certify that I, or person under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; that the work associated with the operations proposed herein will be performed by SOCORRO PETROLEUM COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

August 21, 1992

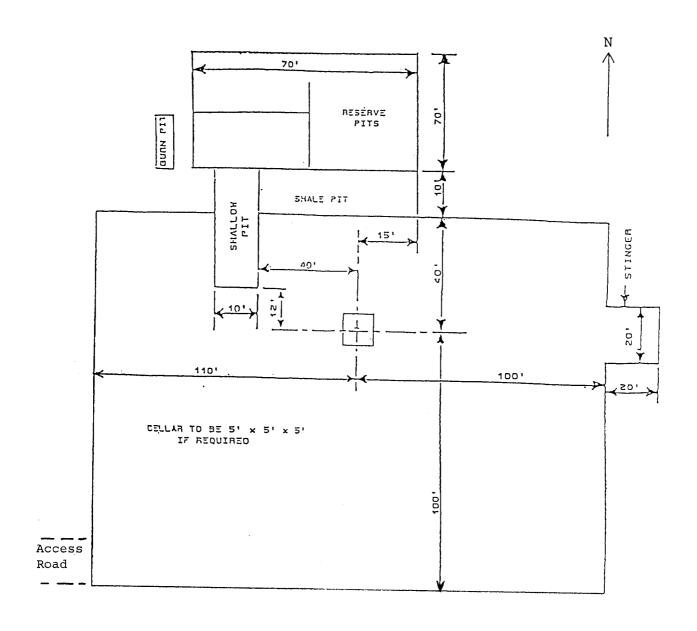
Date:

JERRY W. LONG, Permit Agent for: SOCORRO PETROLEUM COMPANY





SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

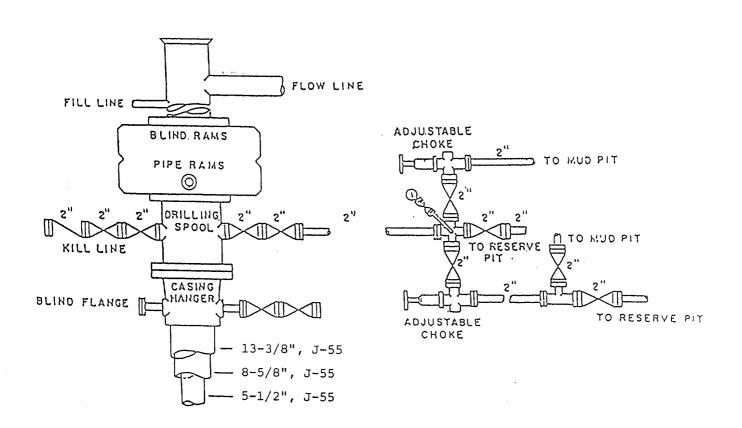


## DRILL PAD LAYOUT

EXHIBIT C

Zuuu# working Pressure
Rams Operated Daily

SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B



#### BOP DIAGRAM

2000# Working Pressure Rams Operated Daily SOCORRO PETROLEUM COMPANY
No.50 H.E. West "B"
SESW Sec.3-17S-31E
Eddy County, N.M.
Federal Lease LC 029426-B

