

JERRY W. LONG CONSULTANT

August 24, 1992

STATE OF NEW MEXICO Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501-2088

> Re: Application for Unorthodox Oil Locations SOCORRO PETROLEUM COMPANY Keel-West Waterflood Project Federal Lease LC 029426-A Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

No.22 H.E. West "A" - 1345'FSL, 35'FEL, Sec. 4, T.17S., R.31E. No.23 H.E. West "A" - 140'FSL, 35'FEL, Sec. 4, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quater-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations, in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268.

Enclosed are copies of the well location plats, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

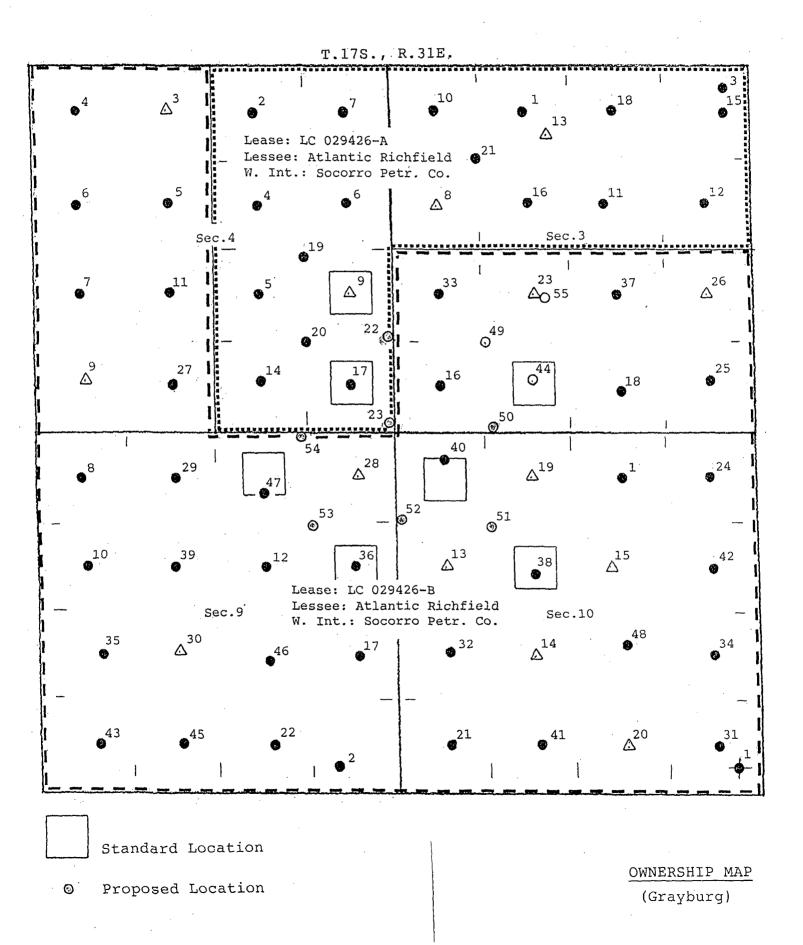
A copy of this application has been mailed to the Bureau of Land Management.

Sincerely yours JERRY W. LONG

-Permit Agent for: SOCORRO PETROLEUM COMPANY

JWL/bll

SOCORRO PETROLEUM COMPANY KEEL-WEST WATERFLOOD PROJECT Eddy County, New Mexico



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

DISTRICT III

2

a a transference and a strategy of a second s

and definition of

NA AL M. ALTONIA

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102 Revised 1-1-89

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

Operator SOC	ORRO PETROLE	UM COMPANY	Lease	H.E. WEST	г "А"	· · ·	Well No. 22
Unit Letter	Section	Township	Range			County	
	4	17 SOUTH		31 EAST	NMPM	1	EDDY
Actual Footage Loc	ation of Well:			· ·		A	
1345 fee		UTH line and	35		feet from	the EAST	line
Ground Level Elev	Producing Fo	rmation	Pool				Dedicated Acreage:
3928.4'					······		Acres
1. Outline the a	creage dedicated to	the subject well by colored p	encil or hack	ure marks on the	plat below.		
2. If more than	one lease is dedica	ated to the well, outline each	and identify	the ownership th	ereof (both	as to workin	g interest and royalty).
unitization, f	orce-pooling, etc.?				all owners	been consoli	dated by communitization,
Yes	No No	If answer is "yes" type o	of consolidati	on			
this form necess	ery	nd tract descriptions which 1					
	-	the well unit all interest					itization, forced-pooling,
otherwise) or u	ntil a non-standal	rd unit, eliminating such ir	iterest, mas	been approved by			OR CERTIFICATION
	1			1 			
	1			1			by certify the the information in is true and complete to the
	1			1		best of my kno	nviedge and belief.
				l '		Signature	
	1			l			
						Printed Nam	e
				⁺ 		Position	
				ł		Company	
				 		Date	
	i			ĺ			
				ĺ		SURVEY	OR CERTIFICATION
							y that the well location shown as plotted from field notes of
	1			, 3928.1' 39			made by me or under my
				0		-	nd that the same is true and we best of my knowledge and
	1					belief.	
				3923.9' 39	25.8'	Date Survey	
	1				35'		GUST 7, 1992
						Signature & Professional	-
						.11	111111111111111111111111111111111111111
						ANTITE	ED LAND Strange
			1		134		Noh
	1		1		∦ ┣-	Certificate N	TOTA SOFIN W. WEST, S 676
		<u>_</u>					RONALD EDSON 3239
	000 1220 1650	1080 2310 2640 00	00 1500	1000 500	——- Į -	- 10	GARY L JONES 7977
0 330 660	990 1320 1650	1980 2310 2640 20	00 1900	1000 200	0		217 1 - 1 43 4 . N

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

1.

.

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

• ••

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

All Distances must be from the outer boundaries of the section

Operator SOC	ORRO PETROLE		Lease	H.E. WEST	"A"		Well No. 23
Unit Letter	Section	Township	Range	·		County	· · · · · · · · · · · · · · · · · · ·
Р	· 4	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc							
		UTH line and	35		feet from	the EAS	11110
Ground Level Elev	7. Producing Fo	ormation	Pool				Dedicated Acreage:
3924.6'							Acres
1. Outline the ac	creage dedicated to	the subject well by colored	pencil or hach	ure marks on the p	lat below.		
2. If more than	one lease is dedic	ated to the well, outline each	n and identify	the ownership there	eof (both	as to workin	g interest and royalty).
unitization, f	orce-pooling, etc.?				ull owners	been consoli	dated by communitization,
Yes		If answer is "yes" type					
If answer is "no this form necess		nd tract descriptions which	have actually	been consolidated.	(Use reve	rse side of	
No allowable w	ill be assigned to	the well unit all interest rd unit, eliminating such in					itization, forced-pooling,
		·····		1		OPERAT	OR CERTIFICATION
	1			1			by certify the the information
				1			in is true and complete to the nviedge and belief.
	1						
	1			 		Signature	
	1					Printed Nam	e
	- - - + -					Position	
	l					Company	
	1			· · ·		oompany	
	1					Date	
	1						
						SURVEY	OR CERTIFICATION
					1 1		y that the well location shown
	1				1 1		as plotted from field notes of made by me or under my
	1				1 1	-	nd that the same is true and
	1					correct to t) belief.	ve best of my knowledge and
						Date Survey	
	1						GUST 7, 1992
	+		· — — — -	⊢ <u> </u>		Signature & Professional	
	I			3931.1'3929	9.6'		
	1			0		15111	n I Ado Tr
1	1		I	، د		Anticipi	50000000 Gran
				3917.5' 3925	5.8'		M.S. T
	1		[₹ <u>3</u> 2	Certificate	JOHN W. WEST, 878
	L	L	ا اـــــــــــــــــــــــــــــــــــ		40	A ST	RONALD JEIDSON, 3239
	12.03 (1983) (1983) (1983)		110 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184		═╕┝		AAC GARY, L. JONES, 7977
0 330 660	990 1320 1650	1980 2310 2640 20	00 1500	1000 500	0		2-11-11(5

Form 3160-3					uctions on	 Form approved. Budget Bureau No. 1004-0136
(December 1990)		D STATES		(Other instruction reverse	side)	Expires: December 31, 1991
	DEPARTMENT					5. LEASE DESIGNATION AND SERIAL NO.
·····	BUREAU OF L		·····			LC 029426-A
APPLI	CATION FOR PE	RMIT TO DI	RILL OR	DEEPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
		DEEPEN 🗆]			7UNIT ACCEDENTINAME Keel-West Waterflood
b. TYPE OF WELL OIL WELL X	ELL OTHER IN	-FILL WELL	SINGLE Zone	X MULT	IPLE	8. FARM OR LEASE NAME WELL NO.
2. NAME OF OPERATOR		-				H.E. West "A" No.22
	SOCORRO PETROLEU	JM COMPANY			· ·	9. AN WELL NO.
3. ADDRESS AND TELEPHONE NO.		•		.505-677-	3223	10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (R At surface	LOCO Hills, New eport location clearly and i	Mexico 882 n accordance with	55 any State ro	quirements.*)		- Grayburg-Jackson Pool
	'FEL, Sec.4, T.1	7S., R.31E.		(Unit	I)	11. SEC., T., B., M., OE BLE. AND SURVEY OR ABEA
At proposed prod. 201	Same			(NESE)		Sec.4, T.17S., R.31E.
14. DISTANCE IN MILES	AND DIRECTION FROM NEAR	LAT TOWN OR POST	OFFICE			12. COUNTY OF PARISH 13. BTATE
6.75 Air mil	es northeast of	Loco Hills.	New Mer	rico		Eddy N.M.
10. DISTANCE FROM PROP LOCATION TO NEARES	USED*			CRES IN LEASE	17. NO.	OF ACRYS ASSIONED THIS WELL
PROPERTY OR LEASE I (Also to nearest dr)	LINE, FT. g. unit line, if any)	35'	639.	56 Ac.	10	40
18. DISTANCE FROM PROI			19. PROPOSE	D DEPTH	20. ROT	CARY OB CABLE TOOLS
OR APPLIED FOR, ON TH	HS LEASE, FT.	800'± [4900	1	Ro	tary
21. ELEVATIONS (Show wh			,			22. APPROX. DATE WORK WILL START.
3928.4' GL	·		•			As Soon As Possible
	• 1. · · · · ·	PROPOSED CASIN	NG AND CEM	ENTING PROG	RAM	
SIZE OF HOLE	ORADE, SIZE OF CASINO	WEIGHT PER FO		SETTING DEPTH	·	QUANTITY OF CEMENT
17-1/2"	<u>13-3/8" J-55</u>	54.5#		560'		sx Class C (Circ)
12-1/4"	<u>8-5/8" J-55</u>	24.0#		730'		sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4	900'	10001	: sx Class C (Circ)
A	4					
٨		•				
Propos		out 4900' a	and comp	lete as a	n in-fil	l non-standard
	e to drill to ab		_			ll non-standard ation is pending.
Graybu	e to drill to ab	ate approva	al of th	e unortho	lox loca	ation is pending.
Graybu Set 5-	e to drill to ab arg producer. St	ate approva casing to 1	al of th TD, ceme	e unorthoo nted with	lox loca suffici	ation is pending.
Graybu Set 5- circul	e to drill to ab arg producer. St 1/2" production .ate to the surfa	ate approva casing to 5 ice. Select	al of th TD, ceme tively p	e unorthod nted with erforate :	dox loca suffica favoraba	ation is pending. lent cement to le Grayburg zones.
Graybu Set 5- circul Run 2-	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p	ate approva casing to f ace. Select	al of th TD, ceme tively p s and tr	e unorthod nted with erforate :	dox loca suffica favoraba	ation is pending. Lent cement to Le Grayburg zones.
Graybu Set 5- circul Run 2-	e to drill to ab arg producer. St 1/2" production .ate to the surfa	ate approva casing to f ace. Select	al of th TD, ceme tively p s and tr	e unorthod nted with erforate :	dox loca suffica favoraba	ation is pending. Lent cement to Le Grayburg zones.
Graybu Set 5- circul Run 2- Sand-f	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar	ate approva casing to f ice. Select perforations id test to f	al of th TD, ceme tively p s and tr tanks.	e unorthod nted with erforate : eat forma	dox loca suffica favoraba	th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p	ate approva casing to f ice. Select perforations id test to f	al of th TD, ceme tively p s and tr tanks.	e unorthod nted with erforate : eat forma	dox loca suffica favoraba	tion is pending. Lent cement to le Grayburg zones. th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar	ate approva casing to f ice. Select perforations id test to f	al of th TD, ceme tively p s and tr tanks.	e unorthod nted with erforate : eat forma	dox loca suffica favoraba	tion is pending. Lent cement to le Grayburg zones. th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar	ate approva casing to f ice. Select perforations id test to f	al of th TD, ceme tively p s and tr tanks.	e unorthod nted with erforate : eat forma	dox loca suffica favoraba	tion is pending. Lent cement to le Grayburg zones. th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f See at	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar tached <u>Drilling</u>	ate approva casing to f ace. Select perforation ad test to Data and S	al of th TD, ceme tively p s and tr tanks. urface U	e unorthod nted with erforate eat forma se Plan.	dox loca suffici favorabi tion wit	th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f See at	e to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar tached <u>Drilling</u>	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u>	al of th TD, ceme tively p s and tr tanks. urface U	e unorthod nted with erforate eat forma se Plan.	dox loca suffici favorabi tion wit	ation is pending. Lent cement to le Grayburg zones. th 15% HCL. ARAR ALC RAR ALC RO RAN ALC RAR ALC RAN ALC RAN ALC RAN ALC RAN ALC RAN RAN ALC RAN ALC RAN ALC RAN RAN RAN RAN RAN RAN RAN RAN RAN RAN
Graybu Set 5- circul Run 2- Sand-f See at	te to drill to about the set of the set of the set of the surfate to the surfate	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u>	al of th TD, ceme tively p s and tr tanks. urface U	e unorthod nted with erforate eat forma se Plan.	dox loca suffici favorabi tion wit	ation is pending. Lent cement to le Grayburg zones. th 15% HCL.
Graybu Set 5- circul Run 2- Sand-f See at NABOVE SPACE DESCRI deepen directionally, give pe 24.	te to drill to about the set of the set of the set of the surfate to the surfate	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u> proposal is to deepen, as and measured and t	al of th TD, ceme tively p s and tr tanks. urface U give data on p mue vertical dep	e unorthod nted with erforate eat forma lse Plan.	dox loca suffici favorabi tion wit	ation is pending. ient cement to le Grayburg zones. th 15% HCL. ARA ALC ARA ALC CO CO CO CO CO CO CO CO CO C
Graybu Set 5- circul Run 2- Sand-f See at IN ABOVE SPACE DESCRI deepen directionally, give pe 24. BIG NED JERR	te to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar ttached Drilling HBE PROPOSED PROGRAM: If rtinent data on subsysface location W. LONG	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u> proposal is to deepen, as and measured and t	al of th TD, ceme tively p s and tr tanks. urface U give data on p mue vertical dep	e unorthod nted with erforate eat forma se Plan.	dox loca suffici favorabi tion wit	ation is pending. ient cement to le Grayburg zones. th 15% HCL. ARA ALC ARA ALC CO CO CO CO CO CO CO CO CO C
Graybu Set 5- circul Run 2- Sand-f See at NABOVE SPACE DESCRI deepen directionally, give pe 24. BIGNED JEER	te to drill to about the set of the set of the set of the surfate to the surfate	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u> proposal is to deepen, as and measured and t	al of th TD, ceme tively p s and tr tanks. urface U give data on p mue vertical dep	e unorthod nted with erforate eat forma lse Plan.	dox loca suffici favorabi tion wit	ation is pending. ient cement to le Grayburg zones. th 15% HCL. ARA ALC ARA ALC CO CO CO CO CO CO CO CO CO C
Graybu Set 5- circul Run 2- Sand-f See at NABOVE SPACE DESCRI deepen directionally, give pe 24. BIGNED JEER	te to drill to ab arg producer. St 1/2" production ate to the surfa -7/8" tubing to p Frac formation ar ttached Drilling HBE PROPOSED PROGRAM: If rtinent data on subsysface location W. LONG	ate approva casing to f ace. Select perforations ad test to Data and <u>S</u> proposal is to deepen, as and measured and t	al of th TD, ceme tively p s and tr tanks. urface U give data on p me vertical dep	e unorthod nted with erforate eat forma lse Plan.	dox loca suffici favorabi tion wit	ation is pending. Lent cement to le Grayburg zones. th 15% HCL.

ļ

APPROVED BY Row Duntin 1	AFER MANAGEN CARLANDO RESERVE ARE: D	ATE	6-10 42

*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.

(December 1990)		ED STATES		(Other Instruc reverse si	tions on	Budget Bureau N Expires: Decem	
	DEPARTMEN	r of the in	NTER	IOR	Í	5. LEASE DESIGNATION	ND SEBIAL NO.
	BUREAU OF	LAND MANAG	EWEN.	r		LC 029426-A	
APPL	ICATION FOR P	ERMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTER	OR TRIBE NAME
a. TYPE OF WORK							
b. TYPE OF WELL		DEEPEN [cle (जी Multip		7UNIT AOBBEMENT NA Keel-West Wate:	rflood Project
WELL LA	WELL OTHER	IN-FILL WEL	L zoi			8. FARM OR LEASE NAME, WEL	
2. NAME OF OPERATOR						H.E. West "A"	No.23
	SOCORRO PETROL	EUM COMPANY				9. API WELL NO.	
. ADDRESS AND TELEPHONE N				Ph.505-677-3	223	10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (At surface	LOCO Hills, Ne Report location clearly an	W MEXICO 88. d in accordance wit	255 th any S	tate requirements.*)		Grayburg-Jack	son Pool
140'FSL, 35'	FEL, Sec.4, T.1	7S., R.31E.		(Unit 1	P)	11. SEC., T., E., M., OR E AND SURVEY OR AR	ILE. IA
At proposed prod. z	Same			(SESE)		Sec.4, T.17S	
	S AND DIRECTION FROM NE					12. COUNTY OR PARISH	13. STATE
6.75 Air mi	les northeast of	Loco Hills			1 10 11-	Eddy	N.M.
LOCATION TO NEAR	EST			. OF ACRES IN LEASE		OF ACRES ABSIGNED HIS WELL	
	rlg. unit line, if any)	35'		39.56 Ac.		40	
13. DISTANCE FROM FI TO NEAREST WELL	DRILLING, COMPLETED.			OPOSED DEPTH		ARY OR CABLE TOOLS	
OR APPLIED FOR, ON	whether DF, RT, GR, etc.)	800'±	4	900'	Ro	Lary 22. APPROX. DATE WC	DT WITT PTIDT
			·				
3924.6'		·····				As Soon As F	ossible
· · · · · · · · · · · · · · · · · · ·		PROPOSED CAS	ING ANI	CEMENTING PROGRA	Υ Μ		······································
BIZE OF HOLE		WEIGHT PER P	700T	SETTING DEPTH	_	QUANTITY OF CEME	
17-1/2"	<u>13-3/8" J-5</u>	_)		560'		sx Class C (Ci	
<u> 12-1/4" </u> 7-7/8"	<u>8-5/8" J-5</u> 5-1/2" J-5			<u>1720'</u> 4900'		sx Class C (Ci sx Class C (Ci	
Grayh Set 5	ose to drill to ourg producer. 5-1/2" productio alate to the sur	State approv n casing to	val of TD, d	the unorthodo the	ox loca suffici	tion is pending ent cement to	
	2-7/8" tubing to -frac formation				ion wit	ARE	Âug
	attached <u>Drillin</u> RIBE PROPOSED PROGRAM						21 11 21
IN ABOVE SPACE DESC deepen directionally, give	RIBE PROPOSED PROGRAM pertinent data on subsurface loc	If proposal is to deepentions and measured and	n, give dal 1 true verti	a on present productive zon cal depths. Give blowout pre	e and propor venter progra	m, if any.	
BIGNED JER	rre It. Zo- RY W. LONG	reg .	пті.е <u>Р</u>	ermit Agent		DATE Augus	% t19, 199
	Federal or State office use)						
PERMIT NO.				APPROVAL DATE			
Application approval CONDITIONS OF APPR	does not warrant or certify that th OVAL, IF ANY:	e applicant holds legal or	r equitable	title to those rights in the subje	eet lease which	would entitle the applicant to	conduct operations th
APPROVED BY	Pon Du	atm Acl	ing	ama adalah Kartanan harinter	, keste	DATE 9-10	1-42

*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.

JERRY W. LONG CONSULTANT

August 24, 1992

STATE OF NEW MEXICO Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501-2088

> Re: Application for Unorthodox Oil Locations SOCORRO PETROLEUM COMPANY Keel-West Waterflood Project Federal Lease LC 029426-B Eddy County, New Mexico

Gentlemen:

You are respectfully requested to grant administrative approval under Rule 104F.(1) for unorthodox locations for infill producing wells within the Keel-West Waterflood Project, at the following locations:

No.50 H.E. West "B" - 50'FSL, 1400'FWL, Sec. 3, T.17S., R.31E. No.51 H.E. West "B" - 1337'FNL, 1363'FWL, Sec.10, T.17S., R.31E. No.52 H.E. West "B" - 1250'FNL, 100'FWL, Sec.10, T.17S., R.31E. No.53 H.E. West "B" - 1350'FNL, 1250'FEL, Sec. 9, T.17S., R.31E. No.54 H.E. West "B" - 75'FNL, 1370'FEL, Sec. 9, T.17S., R.31E.

The above locations do not conform to Rule 104.C.I. because they are located closer than 330' to the governmental quater-quarter section boundaries. They will be drilled to about 4900' to produce from the Grayburg-San Andres formation. The wells will be drilled at the unorthodox locations, in order to prevent waste by developing an efficient production and injection pattern within the Keel-West Waterflood Project, which was approved under Order R-2268.

Enclosed are copies of the well location plats, Application to Drill, and a map indicating lease ownership and locations of off-set Grayburg wells. The information in this request is accurate to the best of my knowledge.

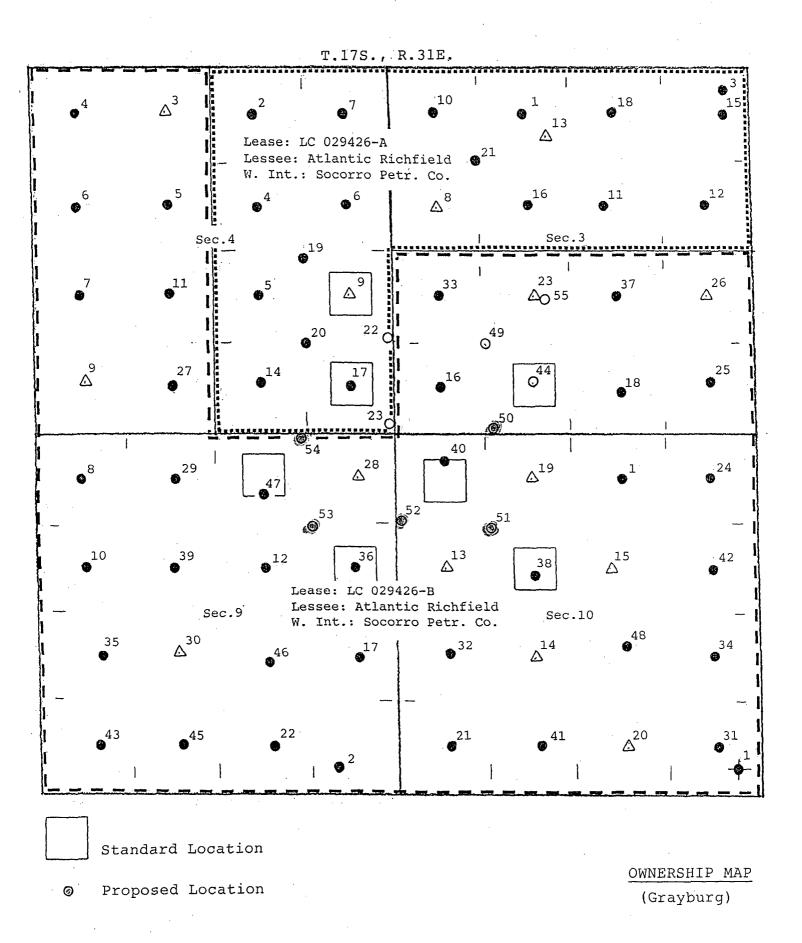
A copy of this application has been mailed to the Bureau of Land Management.

Sincerely yo JERRY W.

Fermit Agent for: SOCORRO PETROLEUM COMPANY

JWL/bll

SOCORRO PETROLEUM COMPANY KEEL-WEST WATERFLOOD PROJECT Eddy County, New Mexico



(December 1990)	DEPARTMEN	ITED STATES IT OF THE IN F LAND MANAGE			tions on	Budget Bureau No. 1004-0136 Expires: December 31, 1991 5. LEASE DESIGNATION AND SEEIAL NO. LC 029426-B
APPL	CATION FOR I	PERMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTER OF THISE NAME
b. TYPE OF WELL		DEEPEN		NGLE 🐨 MULTIPI		7UNIT-AGREEMENT NAME Keel-West Waterflood Project 8. FARM OR LEASE NAME WELL NO.
	ELL OTHER	IN-FILL WELL	ZO			·
		OLEUM COMPANY				H.E. West "B" No.50 9. API WELLNO.
3. ADDRESS AND TELEPHONE NO.		JEON COMPANY		Ph.505-677-3223		IC 30 015 10273-92
4. LOCATION OF WELL (F At surface	LOCO Hills, I Report location clearly a	New Mexico 88 nd in accordance with	255 any S	tate requirements.*)		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool
50'FSL, 140 At proposed prod. zon	OFWL, Sec.3, T ^{ne} Same	.17S., R.31E.		(Unit M (SESW)	1)	11. SEC., T., R., M., OB BLK. AND SURVEY OR AREA
14. DISTANCE IN MILES		FIDDAT TOWN OD DOOM	075107			Sec. 3, T.17S., R.31E. 12. COUNTY OF PARISH 13. STATE
	northeast of L					
15. DISTANCE FROM PROP	USED*			. OF ACRES IN LEASE		Eddy N.M.
LOCATION TO NEARES PROPERTY OR LEASE (Also to nearest dr)	LINE, FT.	1400'		1919.88 Ac.	TOT	40
18. DISTANCE FROM PRO				OPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS
OR APPLIED FOR, ON TE	IIS LEASE, FT.	900'±		4900'	Rot	ary
21. ELEVATIONS (Show w)	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
3926.5 GL		··				As Soon As Possible
		PROPOSED CASIN	IG ANI	CEMENTING PROGRAM	M	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH		QUANTITY OF CEMENT
17-1/2"	<u> 13-3/8" J-5</u>			570'		<u>t sx Class C (Circ)</u>
<u>12-1/4"</u> 7-7/8"	<u>8-5/8" J-5</u> 5-1/2" J-5			<u> 1750' </u>		<u>± sx Class C (Circ)</u> ± sx Class C (<u>Circ)</u>
Graybu Set 5- circul Run 2-	rg producer. 1/2" productic ate to the sur	State approva on casing to T face. Select perforations	l of D, c ivel	emented with st y perforate fa treat formatio	x locat ufficie vorable	tion is pending. ent cement to e Grayburg zones.
	tached <u>Drillir</u>			,		RECEIVI Aug 21 11 21 AREA HEALTA
IN ABOVE SPACE DESCRI deepen directionally, give per 24.	BE PROPOSED PROGRAM rtinent data on subsurface loc W. LONG	ations and measured and tr	ue vertic	a on present productive zone al depths. Give blowout preve ermit Agent	and propose inter program	DATE August 21, 1992
(This space for Fee	leral or State office use)					
PERMIT NO.	1			APPROVAL DATE		· · · · · · · · · · · · · · · · · · ·
		e applicant holds legal or eq	uitable ti		lease which	would entitle the applicant to conduct operations the
APPROVED BY	And the set of a second		Pen	te Rossieres Martelas Artistations - 19		DATE 9- 8-92

2

*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

.,

•

the strength of

 $(x_{i}^{k}, x_{i}^{k}) \in \{x_{i}^{k}, \dots, x_{i}^{k}\}$

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 1960, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

All Distances must be from the outer boundaries of the section

Operator S	OCORRO	PETROLE	JM COMPANY		Lease	Н	.E. WES	Т "В"	· ·	Well No. 50
Unit Letter	Section		Township	·····	Range				County	L
N		3	17 SC	UTH		31	EAST	NMPM		EDDY
Actual Footage	Location of									•••
50 Fround Level E	feet from th	ne SOU oducing For			1400 Pool			feet from	the WES	line Dedicated Acreage:
3926.5		oducing for.	macion		1001					2
		dicated to	the subject well	by colored p	encil or hack	ure ma	ks on th	e plat below	•	Acres
2. If more th	an one leas	se is dedicat	ted to the well,	outline each	and identify	the ow	aership tl	nereof (both	as to workin	g interest and royalty).
unitization	, force-poo	ling, etc.?	-				interest o	f all owner	s been consol	idated by communitization,
Yes	t	∐ No	If answer is	"yes" type of	f consolidati	on		<u>.</u>		
If answer is ' this form nec		owners and	d tract descript	ons which h	ave actually	been c	onsolidate	d. (Use reve	erse side of	
No allowable	will be as	-	the well unit d unit, elimina							nitization, forced-pooling,
	un u II					<u></u> P				OR CERTIFICATION
		í								by certify the the information
						1				ein is true and complete to the
		1				1			best of my kn	owiedge and bekef.
		1				1			Signature	
		1				1				
		1				1			Printed Nan	10
	·	+				⊢ — −			Position	<u></u>
		1								
		1			:	1			Company	
									Date	
		1				1				
		1				1			SURVEY	OR CERTIFICATION
		 		·		 			2011/21	
		1			1					y that the well location shown vas plotted from field notes of
		1							actual surveys	made by me or under my
		1			1					nd that the same is true and he best of my knowledge and
· ·		ł							belief.	
		1			1				Date Survey	ed
		i			ļ				AU	GUST 6, 1992
L		· + ·							Signature & Professiona	
		7004 7	3927.6'		İ				• 10103310114	
		3924.3	1		ĺ				PTOIESSIONA	EDED LAND"
			0		I				A ST	10000000000000000000000000000000000000
		3922.9	j 3924.2'		l				A	NON
					ļ				NEM.	ALTO DEE
1					ĺ				Certificate"	NO. (JOHN W. WEST, 876
14(<u></u>					1 TI AS	RONALD JEIDSON 3239
, 104 m P	And Heles		5xx (2003		184533. 1		€ PALLA			GARY LOUONES 7977
0 330 66	io 990 1	320 1650	1980 2310 264	10 200	0 1500	1000	500	0	i i i g	2#14-11716

Form 3160-3 (December 1990)		ED STATES		SUBMIT IN TRI (Other instruct reverse sid	ions on	Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991
	DEPARTMENT			-	ĺ	5. LEASE DESIGNATION AND BEBIAL NO.
	BUREAU OF	LAND MANAG	EWEN.	Τ		LC 029426-B
······································	CATION FOR PE	ERMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTER OR TRIBE NAME
1a. TYPE OF WORK DRII b. TYPE OF WELL	LX	DEEPEN [7. UNIT AGEDEMENT NAME Keel-West Waterflood Project
	SLL OTHER IN	-FILL WELL	81N	IGLE X MULTIPL	•	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR						H.E. West "B" No.51
	SOCORRO PETROL	EUM COMPANY				9. API WELL NO.
3. ADDRESS AND TELEPHONE NO.	P.O. Box 37		J	Ph.505-677-3223		IC 30-015-70277
4. LOCATION OF WELL (Re	Loco Hills, Ne	w Mexico 88	3255			10. FIELD AND POOL, OR WILDCAT
At surface	port location clearly and	IL ACCORDANCE WIT	цару от	inte requirements.*)		Grayburg-Jackson Pool 11. SEC., T., E., M., OE BLK.
1337'FNL, 136 At proposed prod. zone	3'FWL, Sec.10, Same	T.17S., R.	31E.	(Unit F) (SENW))	Sec.10, T.17S., R.31E.
14. DISTANCE IN MILES A	ND DIBLCTION FROM NEAT	IST TOWN OR POS	T OFFICE	•		12. COUNTY OF PABISH 13. STATE
	northeast of Lo					Eddy N.M.
15. DISTANCE FROM PROPU LOCATION TO NEAREST	SED*			. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LEASE L (Also to nearest drig	INE, FT.	2000'		1919.88 Ac.	TOT	40
13. DISTANCE FROM FROP TO NEAREST WELL, DE	OSED LOCATION*			OPOSED DEPTH	20. ROTA	ARY OR CABLE TOOLS
OR APPLIED FOR, ON THI	IS LEASE, FT.	900 ' ±		4900'	Rot	ary
21. ELEVATIONS (Show whe	ether DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
3925.3 GL	·····	·····				As Soon As Possible
		PROPOSED CAS	ING ANI	CEMENTING PROGRAM	M	<u></u>
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER I	700T	SETTING DEPTH		QUANTITY OF CEMENT
17-1/2"	<u>13-3/8" J-55</u>	54.5#		560'	•	sx Class C (Circ)
12-1/4"	<u>8-5/8" J-55</u>			4900'	-]	sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900	10001	sx Class C (<u>Circ)</u>
Graybu: Set 5- circul Run 2-	rg producer. S 1/2" production ate to the surf	tate approv casing to ace. Selec perforation	val of TD, c ctive ns and	cemented with s ly perforate fa d treat formati	x loca uffici vorabl	tion is pending. ent cement to e Grayburg zones.
See at	tached <u>Drilling</u>	Data and	Surfa	ce Use Plan.		REA HEA
IN ABOVE SPACE DESCRI	BE PROPOSED PROGRAM:	If proposal is to deepe	n, give dat	ta on present productive zone	and propos	eed new productive zone. If proposal is to drill or
deepen directionally, give per	tinent data on subsurface locat	ons and measured and	i true verti	cal depths. Give blowout prev	enter progra	TD 22
SIGNED	ry n. Lo	ng,	пті. е _ <u>Р</u>	ermit Agent		August 21, 1992
	eral er State office use)			1995 - <u>1995 - 1995 - 1995 - 1995</u>		
••		applicant holds legal or	cquitable	APPROVAL DATE	t lease which	would entitle the applicant to conduct operations thereon
CONDITIONS OF APPROV	Vr" II, VM X:			e siteraal - sater yn tstrektig		
APPROVED BY	ayen herri 🏹 e 🖓 e Sara Sara Sara Sara Sara Sara Sara Sa	Trut	. 1	an <mark>lea M</mark> anactan Mahlatahi Memonyos 7.957		JATE 9-8-92

.

APPROVED BY

1

*See Instructions On Reverse Side

DATE

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.

- TITLE _

Submit to Appropriate State of New Mexico Form C-102 District Office Energy, Minerals and Natural Resources Department Revised 1-1-89 State Lease - 4 copies Fee Lease - 3 copies OIL CONSERVATION DIVISION DISTRICT I P.O. Box 2088 P.O. Box 1980, Hobbs, NM 88240 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., Aztec, NM 67410 All Distances must be from the outer boundaries of the section Well No. Lease Operator H.E. WEST "B" 51 SOCORRO PETROLEUM COMPANY Unit Letter Section Township Range County 17 SOUTH 10 31 EAST EDDY NMPM Actual Footage Location of Well: 1363 WEST NORTH 1337 line feet from the line and feet from the **Producing Formation** Pool Ground Level Elev. Dedicated Acreage: 3925.3' Acres 1. Outline the acreage dedicated to the subject well by colored pencil 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.? No No If answer is "yes" type of consolidation Yes If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Printed Name 3924.0' 3922.2' Position 1363 3916.8 3114.4' Company 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. Date Surveyed AUGUST 7, 1992 Signature & Seal of Professional Surveyor, ERED LAND tificate 676 3239 القر ، وتحر 797 4.1 990 1320 1650 1980 2310 2640 2000 1500 330 860 1000 500 n 97

Form 3160-3 (December 1990)			D STATES		SUBMIT IN TRI (Other instruct reverse sid	ions on	Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991
			OF THE IN			ſ	5. LEASE DESIGNATION AND SEBIAL NO.
	BUREA	UOFL	AND MANAG	EMEN	Τ		LC 029426-B
APPLIC	CATION FO	R PE		RILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE OB TEIBE NAME
DRII b. TYPE OF WELL	LX		DEEPEN [7-UNIT AGGEBERENT NAME Keel-West Waterflood Project
		AER IN	-FILL WELI	- 81N - 201	E X MULTIPL	•	8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPERATOR							H.E. West "B" No.52
2	SOCORRO PE	TROLE	UM COMPANY				9. API WELL NO.
3. ADDRESS AND TELEPHONE NO.	P.O. Box 3				Ph.505-677-3223		<u>IC 30 015 70278.92</u> 10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Re	Loco Hills	5, New	Mexico 88	3255 h any 81	tate requirements *)		
At surface	port rocation cita				are requirements.		Grayburg-Jackson Pool
1250'FNL, 10 At proposed prod. zon		.10, T	.17s., R.	31E.	(Unit D) (NWNW)	I	11. BEC., T., B., M., OB BLK. AND SURVEY OF AREA Sec.10, T.17S., R.31E.
14. DISTANCE IN MILES A	ND DIRECTION FRO	M NEARE	ST TOWN OR POS	TOFFICE	•		12. COUNTY OF PARISH 13. STATE
6.75 Air mil							Eddy N.M.
15. DISTANCE FROM PROPO	SED*				. OF ACRES IN LEASE		OF ACRES ASSIGNED
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	. 1	250'		1919.88 Ac.	TOT	40
(Also to nearest drig 18. DISTANCE FROM PROF	OSED LOCATION*	<u></u>	250		OPOSED DEPTH	20. ROTA	4U ARY OR CABLE TOOLS
TO NEAREST WELL, D OR APPLIED FOR, ON TH		LD,	900'±		4900'	Bot	ary
21. ELEVATIONS (Show who	ther DF, RT, GR,	etc.)		·	4500	1 100	22. APPROX. DATE WORK WILL START*
3913.4 GL							As Soon As Possible
23.	· · · · · · · · · · · · · · · · · · ·	· P	ROPOSED CAS	ING ANI	CEMENTING PROGRA	м	
SIZE OF HOLE	GRADE, SIZE OF CA	SINO	WEIGHT PER F		SETTING DEPTH	1	QUANTITY OF CEMENT
17-1/2"	13-3/8"	J-55	54.5#		540'	500±	sx Class C (Circ)
12-1/4"		J-55	24.0#		1700'		sx Class C (Circ)
7-7/8"		J-55	17.0#		4900'	1000±	sx Class C (Circ)
Graybu Set 5-	rg producer 1/2" produc	tion o	ate approv casing to	al of TD, c	cemented with s	x loca [.] ufficio	tion is pending. ent cement to
circul	ate to the	surfa	ce. Selec	tive	ly perforate fa	vorable	e Grayburg zones.
	7/8" tubing rac formati				l treat formati 5.	on wit	h 15% HCL.
See at	tached <u>Dril</u>	lling	Data and S	Surfac	ce Use Plan.		RUG 21
					a on present productive zone cal depths. Give blowout prev		ed new productive zone. If the proposal is to goilt in, if any.
24. Je	rreg W.	Zo	ng	. P	ermit Agent		orn 23 DATE August 21, 1992
SIGNED JERRY	W. LONG		T				
(This space for Fed	eral or State offic	e use)	J				
PERMIT NO.	1				APPROVAL DATE		
	•	that the app	licant holds legal or	equitable		t lease which	would entitle the applicant to conduct operations th
APPROVED BY	Spread by Radio	nata. As		0.5	ra Ranacen R isbad aco ltace area		9.29.92

*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 State of New Mexico Form C-102 **District Office** Energy, Minerals and Natural Resources Department Revised 1-1-89 State Lease - 4 copies Fee Lease - 3 copies OIL CONSERVATION DIVISION DISTRICT I P.O. Box 2088 P.O. Box 1980, Hobbs, NM 88240 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., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Lease Well No. Operator H.E. WEST "B" SOCORRO PETROLEUM COMPANY 52 Range County Unit Letter Section Township 17 SOUTH 31 EAST EDDY D 10 NMPM Actual Footage Location of Well: 100 1250 NORTH WEST line feet from the feet from the line and Pool Ground Level Elev. **Producing** Formation **Dedicated Acreage:** 3913.4' Acres 1. Outline the acreage dedicated to the subject well by colored pencil 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.?] No If answer is "yes" type of consolidation Yes If answer is "no" list of owners and tract descriptions which have actually been consolidated. (Use reverse side of this form necessary. No allowable will be assigned to the well unit all interests have been consolidated (by communitization, unitization, forced-pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the 3912.8' 3912.8 best of my knowledge and belief. 1250' 0 Signature 3903.7' 3910.8 Printed Name Position 100 Company 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. Date Surveyed AUGUST 6, 1992 Signature & Seal of **Professional Surveyor** MAN D LAND ERED LAND rtificate 676 JE FIDSON 3239 RONALD 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 Ó 330 -11 - 1118

ż

rorm 5100-5 (December 1990)	\mathcal{Y}			D STATES		(Other instruc reverse sid	tions on	Form approved. Budget Bureau No. 1004-0136 Expires: December 31, 1991
				OF THE IN			. [5. LEASE DESIGNATION AND SERIAL NO.
		BURE	AU OF L	AND MANAG	EMEN	Γ		LC 029426-B
	PLIC	CATION F	OR PE	RMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTED OR TRIBE NAME
1a. TYPE OF WORKb. TYPE OF WELL	DRIL	LX		DEEPEN [7 , UNIT AGE EDIENT NAME Keel-West Waterflood Project
OIL X	O A S		THER IN	-FILL WELI	. 81N . ZOI	CLE X MULTIP		8. FARM OR LEASE NAME, WELL NO.
2. NAME OF OPEBATC) R							H.E. West "B" No.53
		SOCORRO	PETROLE	UM COMPANY				9. API WELL NO.
3. ADDRESS AND TELEPHON	NB NO.	P.O. Box				Ph.505-677-3223	3	IC 30 015 70276-92
4. LOCATION OF WEL	L (Re	LOCO Hil	ls, Nev	v Mexico 88	3255 h any 8	tate requirements.*)		
At surface						•		Grayburg-Jackson Pool 11. SEC., T., B., M., OR BLK. AND SURVEY OR ABEA
1350'FNL, At proposed prod			ec.9, 1	c.175., R.3	31E.	(Unit		AND SURVEY OR AREA
At proposed prot	u. zone	Same			•	(SENE)		Sec.9, T.17S., R.31É.
14. DISTANCE IN MI	ILES A	ND DIRECTION I	ROM NEAR	EST TOWN OF POS	T OFFICE	•		12. COUNTY OR PARISH 13. STATE
6.5 Air m	nile	s northea	st of I	Loco Hills	, New	Mexico		Eddy N.M.
15. DISTANCE FROM LOCATION TO NE		SED*			16. NO	. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL
PROPERTY OR LE (Also to neares	CABE L'	NE, FT. . unit line, if a	ny) 1.	350'		1919.88 Ac.		40
18. DISTANCE FROM TO NEAREST WE					19. FR	OPOSED DEPTH	20. ROT/	ARY OR CABLE TOOLS
OR APPLIED FOR, (800 ' ±]	4900'	Rot	cary
21. ELEVATIONS (Sho		ther DF, RT, G	R, etc.)					22. APPROX. DATE WORK WILL START*
3897.8 GI	L							As Soon As Possible
			· 1	PROPOSED CAS	ING ANI	CEMENTING PROGRA	.м	
SIZE OF HOLE		GRADE, SIZE OF	CASINO	WEIGHT PER F	T00T	SETTING DEPTH	_	QUANTITY OF CEMENT
17-1/2"		<u>13-3/8"</u>	<u>J-55</u>	54.5#		510'	475±	sx Class C (Circ)
12-1/4"		8-5/8"	<u>J-55</u>	24.0#	<u> </u>	1680'	<u>825±</u>	sx Class C (Circ)
7-7/8"		5-1/2"	J-55	17.0#		4900'	1000±	sx Class C (Circ)
Gra Set cir Run San See	ybu 5-2 cula 1 2- nd-f: e at	g produce 1/2" produ ate to the 7/8" tubin rac forma tached <u>Dr</u>	er. St uction e surfa ng to p tion ar illing	ate approv casing to ace. Select perforation ad test to Data and <u>s</u>	val of TD, c stivel ns and tanks Surfac	cemented with s Ly perforate fa d treat formati s. <u>ce Use Plan</u> .	x loca uffici vorabl on wit	tion is pending. ent cement to e Grayburg zones. h 15% HCL.
24. SIGNED (This space for PERMIT NO.	ERRY or Fed	<u>W. LONG</u> eral of State of	Fire use)	<u>ug</u>	<u>тт.в _ Р</u>	APPROVAL DATE	- <u></u>	DATE August 21, 1992
			tify that the ap	pplicant holds legal or			ct lease which	a would entitle the applicant to conduct operations there
APPROVED BY	- 1 ₂	ter in the de	in it.	<u></u> пп	6	ARUSSIUS ASSONNUS (1977)		DATE 9:29.92

۰,

.*

*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

..

DISTRICT I

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 Fé, New Mexico 87504-2088

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

P.O. Box 1980, Hobbs, NM 88240

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410

All Distances must be from the outer boundaries of the section

Operator SOC	CORRO PETROLE	UM COMPANY	Lease	ŀ	.E. WEST "B"	_		Well No. 53
Unit Letter	Section	Township	Range				County	
н	9	17 SOUTH		31	EAST NM	ФM		EDDY
Actual Footage Loo	cation of Well:		· · · · · · · · · · · · · · · · · · ·					
1350 fee	et from the NOF	RTH line and	1250		feet i	from	uhe EAS	line
Ground Level Elev	v. Producing For	mation	Pool					Dedicated Acreage:
3897.8'	<u> </u>							Acres
1. Outline the a	creage dedicated to	the subject well by colored p	encil or hach	ure ma	rks on the plat b	elow.		
2. If more than	one lease is dedica	ted to the well, outline each	and identify	the ow	nership thereof (I	both	as to workin	g interest and royalty).
unitization, f	force-pooling, etc.?	ent ownership is dedicated to			interest of all ow	ners	been consol	idated by communitization,
Yes Yes	No	If answer is "yes" type o	f consolidatio					
		d tract descriptions which h	ave actually	been c	onsolidated. (Use	rever	se side of	
this form necess No allowable w		the well unit all interest	have been	conso	lidated (by com	muni	tization, ur	utization, forced-pooling,
		d unit, eliminating such in						
		<u> </u>				٦	OPERAT	OR CERTIFICATION
	i			i î			1 here	by certify the the information
	1							in is true and complete to the
	1			 _			best of my kn	rwiedge and belief.
				1350			Signature	
							Printed Nam	
			3897.6'	+ <u> </u> 39	00.4'		Princed Man	16
└ <u></u>	+			0		╡┝	Position	
1	1							
	1		3893.2'	38	96.3'		Company	
	1							
	1						Date	
			1					
			ľ				SURVEY	OR CERTIFICATION
						41	herebu corti	y that the well location shown
	1							vas plotted from field notes of
						1 1		made by me or under my
	ľ		İ			1 1	-	nd that the same is true and he best of my knowledge and
						1 1	belief.	
	1					[Date Survey	
			1					GUST 6, 1992
 	+						Signature & Professional	Surveyor
	l I							LAND THE
	1		 				ALL ALL ALL ALL ALL ALL ALL ALL ALL ALL	ERED LARD CAR
1	1						123	
	1							III NG VAL
]	1		1			$ \downarrow$	CI BWIZ	K 30 1a 1 MAS
	í		1				Certificate	10. JOHN W. WEST, 3 878
	1 2 2 4 4 4 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5		age of each and		a the second second second second second second second second second second second second second second second	3	1 3. 6	GARY D JONES 7977
0 330 660		1980 2310 2640 200	00 1500	100	· · · · ·			2-11-119
							* 20	

rorm 3100-3 (December 1990)	DEPARTMENT	ED STATES OF THE INTER LAND MANAGEMEN	IPLICATE* Form approved. stions on de) Budget Bureau No. 1004-0136 Expires: December 31, 1991 5. LEASE DESIGNATION AND BEEIAL NO. LC 029426-B				
	CATION FOR PE				6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
1a. TYPE OF WORK					7 , UNIT AGBEDMENT NAME Keel-West Waterflood		
b. TYPE OF WELL OIL C WELL C WELL Z V 2. NAME OF OPERATOR	AS OTHER I		INGLE X MULTIPL		Project 8. FARM OR LEASE NAME, WELL NO.		
	SOCORRO PETROL	FUM COMPANY			H.E. West "B" No.54 9. AR WELL NO.		
3. ADDRESS AND TELEPHONE NO.	P.O. Box 37 Loco Hills, Ne	w Mexico 88255	Ph.505-677-3223	1	IC 30-0/5-70324-9 10. FIELD AND POOL, OR WIEDCAT		
4. LOCATION OF WELL (I At surface	teport location clearly and	in accordance with any &	State requirements.*)		Grayburg-Jackson Pool		
75'FNL, 137 At proposed prod. 20	O'FEL, Sec.9 ₃ , T. ^{ne} Same	17S., R.31E.	(Unit E (NWNE)	3)	11. BEC., T., R., M., OR BLK. AND BURVEY OR AREA Sec.9, T.17S., R.31E.		
	AND DIRECTION FROM NEAD			· · · · · · · · · · · · · · · · · · ·	12. COUNTY OR PARISH 13. STATE		
6.5 Air mil	es northeast of		W MEXICO O. OF ACRES IN LEASE	1 17 10	Eddy N.M.		
LOCATION TO NEARES PROPERTY OR LEASE	T LIN E, F T.	75'			THIS WELL		
(Also to nearest dr. 18. DISTANCE FROM PRO	g. unit line, if any)		1919.88 Ac.	20. ROT.	40 . ABY OR CABLE TOOLS		
TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED. His lease, ft.	900'±	4900'	Rot	tary		
21. ELEVATIONS (Show W	hether DF, RT, GR, etc.)	·		1 10	22. APPROX. DATE WORK WILL START*		
3908.2 GL					As Soon As Possible		
23.		PROPOSED CASING AN	D CEMENTING PROGRA	м			
SIZE OF HOLE	ORADE, SIZE OF CASINO	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEMENT		
17-1/2"	<u>13-3/8" J-55</u>	54.5#	530'		sx Class C (Circ)		
<u> 12-1/4" </u>	<u>8-5/8" J-55</u> 5-1/2" J-55	24.0#	<u> 1680' </u>		sx Class C (<u>Circ</u>) sx Class C (<u>Circ</u>)		
Graybu Set 5	-1/2" production	tate approval o casing to TD,	f the unorthodo cemented with s	x loca uffici	tion is pending.		
	-7/8" tubing to frac formation a	-		on wit			
See a	ttached <u>Drilling</u>	Data and Surfa	ace Use Plan.		RECT Aug 21 1		
IN ABOVE SPACE DESCR	JBE PROPOSED PROGRAM:	lf proposal is to deepen, give d	ata on present productive zone	e and propor	sed new productive zone. If propagal is to drill or		
$\frac{\text{deepen directionally, give p}}{24}$	ertinent data on subsurface locati	$P_{\tilde{z}}$	······································	venter progra			
SIGNED JERR (This space for Fo			Permit Agent		August 21, 1992		
	1	ł	APPROVAL DATE				
PERMIT NO Application approval de CONDITIONS OF APPRO		applicant holds legal or equitable		ct lease which	h would entitle the applicant to conduct operations thereon.		
مې اور دې مېرې د مېرې مېرې کې مېرې کې مېرې کې مېرې کې	Maganan an Door yn far i	11.1997 TITLE	ARIN BERGELLA TRACKING BENGLAM	<i>!</i>	DATE 10-1-92		

:

APPROVED BY

*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	

-:

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87504-2088

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III

All Distances must be from the outer boundaries of the section

					6 36010II		
Operator SOCORR	O PETROLEUM	COMPANY	Lease	H.E. WEST	"B"		Well No. 54
Unit Letter Sect	ion Town	iship	Range			County	
В	9	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Location	of Well:						
75 feet from	n the NORTH	line and	1370		feet from	the EAS	line
Ground Level Elev.	Producing Formatio		Pool				Dedicated Acreage:
3908.2'							Acres
1. Outline the acreage	dedicated to the s	ubject well by colored	pencil or hach	ure marks on the	nlat below		Acres
			-		-		g interest and royalty).
				-		-	idated by communitization,
unitization, force-	- <u> </u>						
Yes Yes	No If	answer is "yes" type	of consolidati	on			
If answer is "no" list	t of owners and tra	ct descriptions which	have actually	been consolidated.	. (Use reve	erse side of	
this form necessary.		· · · · · · · · · · · · · · · · · · ·			·		
							nitization, forced-pooling,
otherwise) or until a	a non-standard un	it, eliminating such	interest, has	been approved by	the Divisi	on.	
		·····		1.2.20		OPERAT	OR CERTIFICATION
	ł		12	1370'		7 h	he continue the the indomention
							by certify the the information in is true and complete to the
				I			wiedge and belief.
		3907.2*	3910.2'	1			
	i i		1	1		Signature	
	1		0	1			
				l		Printed Nan	he
		3906.9'	3905.7*				
<u>⊢</u>				+		Position	
	i			·		I UBILION	
	1			1		Compone	·····
				1 .		Сотралу	
	1			1		Date	
	ľ			• •			
	1			1		CUDVEN	OD CEDEUCIERON
	I			1		SURVEI	OR CERTIFICATION
						T horober same	y that the well location shown
	1						as plotted from field notes of
	1			I			made by me or under my
	1	. 				-	nd that the same is true and
	I						he best of my knowledge and
						belief.	
	1					Date Survey	ed
		,				AŬ	GUST 6, 1992
				· ·		Signature &	ed GUST 6, 1992 Seal of Surveyor NO.
	-+					Professiona	Surveyor
'							ald LAND Sty
	1					1.0	1 0010000000 000 US PA
						2 550	
			1				NO. SEE
			1			(J) 1	B230 - 2 = 1
	[VVAn NºP	A Trindine
	1		ĺ	1		Certificate	TO A JOHN W. WEST 676
	1		1			1 40	BONALD JEEDSON 3239
. 1990 - 19 March 1990 - 19	- 4 4 6 6 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28.5 A	S. S. S. State State	いいたれる問題で		1 500	ALL GARY LANONES 7977
0 330 660 990	1320 1650 1980	2310 2640 2	000 1500	1000 500		 Q	2-11-1120
						3	<u> </u>

Lange Lange	0,11		<u>' </u>	IVAL	4111
	1	SEP	23	1992	
	الا	U		JUC	JU

COOPERATIVE DEVELOPMENT AGREEMENT H. E. WEST "A" AND "B" LEASES - EDDY COUNTY, NEW MEXICO

THIS COOPERATIVE DEVELOPMENT AGREEMENT ("Agreement") is made and entered into effective for all purposes as of October 1, 1992 (the "Effective Date"), between SOCORRO PETROLEUM COMPANY, a Texas Partnership ("Socorro"), the undersigned parties designated below as "West 'A' Overriding Royalty Interest Owners" (collectively, the "West 'A' Overriding Royalty Interest Owners"), and the undersigned parties designated below as "West 'B' Overriding Royalty Interest Owners" (collectively, the "West 'B' Overriding Royalty Interest Owners").

RECITALS:

Socorro is the owner of (a) all oil and gas operating rights in and to the Eddy County, New Mexico lands and depths described on Exhibit A attached hereto and made a part hereof (the "West 'A' Lands"), as created by the federal oil and gas leases described on attached Exhibit A (the "West 'A' Leases"), and (b) all oil and gas operating rights in and to the Eddy County, New Mexico lands and depths described on Exhibit B attached hereto and made a part hereof (the "West 'B' Lands"), as created by the federal oil and gas leases described on attached Exhibit B (the "West 'B' Leases"). The West "A" Overriding Royalty Interest Owners collectively own all presently outstanding overriding royalty interests in production of oil, gas, and other hydrocarbons from the West "A" Lands under and by virtue of the West "A" Leases. The West "B" Overriding Royalty Interest Owners collectively own all presently outstanding overriding royalty interests in production of oil, gas, and other hydrocarbons from the West "B" Lands under and by virtue of the West "B" Leases.

There are a number of oil wells presently producing from the West "A" Lands and the West "B" Lands. Socorro, as the owner of all oil and gas operating rights in and to the West "A" Lands and the West "B" Lands, desires to drill one or more infield wells at locations on or within close proximity to the common boundary line between the West "A" Lands and the West "B" Lands, as depicted in red on the plat attached hereto as Exhibit C (the "Common Boundary Line"), without necessity of unitizing the West "A" Leases and the West "B" Leases. The West "A" Overriding Royalty Interest Owners and the West "B" Overriding Royalty Interest Owners, in turn, desire to encourage and facilitate such developmental drilling operations. Accordingly, in consideration of the premises and the mutual agreements and obligations of the parties hereinafter set forth, Socorro, the West "A" Overriding Royalty Interest Owners and the West "B" Overriding Royalty Interest Owners have agreed and do hereby agree as follows:

1. <u>Consent to Border Wells</u>. Subject to the provisions of this Agreement, Socorro is hereby authorized to drill, complete, operate, and produce such Border Wells (hereinafter defined) as Socorro may, in its discretion, as the owner of the operating rights in the West "A" Lands and the West "B" Lands, determine appropriate, without necessity of obtaining any further consents approvals, or authorizations from the West "A" Overriding Royalty Interest Owners or the West "B" Overriding Royalty Interest Owners. As used in this Agreement, the term "Border Well" shall mean any oil and/or gas well heretofore or hereafter drilled by Socorro, its successors or assigns, on the West "A" lands or the West "B" Lands at a surface location on or within 330 feet of the Common Boundary Line and completed as a producer of oil, gas, and/or other hydrocarbons from the West "A" Lands or the West "B" Lands.

2. <u>Categorization of Border Wells</u>. For purposes of allocating production from Border Wells as betweens the West "A" Lands and the West "B" Lands pursuant to Paragraph 8 hereof, each Border Well shall be classified into one of three categories, depending upon its location in relation to the Common Boundary Line, as follows:

> a. <u>Category I Border Wells</u>. The first category shall consist of all Border Wells drilled at surface locations within 165 feet of the Southwest corner of the SE¹/₄ of Section 4, T-17-S, R-31-E, N.M.P.M., Eddy County, New Mexico, and all Border Wells drilled at surface locations within 165 feet of the Southeast corner of the SE¹/₄ of Section 4, T-17-S, R-31-E, N.M.P.M., Eddy County, New Mexico (the "Category I Border Wells"). The Southwest and Southeast corners of the SE¹/₄ of said Section 4 are depicted in blue on attached <u>Exhibit C</u> for further clarification of their locations.

> b. <u>Category II Border Wells</u>. The second category shall consist of all Border Wells drilled at surface locations within 165 feet of the Northeast corner of the SE^{$\frac{1}{4}$} of Section 4, T-17-S, R-31-E, N.M.P.M., Eddy County, New Mexico (the "Category II Border Wells"). The Northeast corner of the SE^{$\frac{1}{4}$} of said Section 4 is depicted in green on attached <u>Exhibit C</u> for further clarification of its location.

> c. <u>Category III Border Wells</u>. The third category shall consist of all Border Wells not classified as Category I Border Wells or Category II Border Wells pursuant to the foregoing provisions of this Agreement (the "Category III Border Wells"). These wells are depicted in orange on attached <u>Exhibit C</u> for further clarification of their locations.

Authorization to Commingle Production. Subject to the 3. provisions of this Agreement, Socorro is hereby authorized to gather, commingle, store, transport and deliver any oil, casinghead gas, and associated hydrocarbons produced from any Border Well in any gathering lines, pipelines, tank batteries, and other facilities utilized by Socorro for the gathering, storage, transportation, and delivery of oil, casinghead gas, and associated hydrocarbons produced from either the West "A" Lands or the West Lands, regardless of the location of such facilities "B" (hereinafter referred to as "Common Gathering and Storage Facilities"), all without necessity of maintaining separate production, storage, or measurement facilities for any well so produced into Common Gathering and Storage Facilities, and all necessity of obtaining any further consents, without authorizations, or approvals from the West "A" Overriding Royalty Interest Owners or the West "B" Overriding Royalty Interest Owners. The foregoing authorization to commingle production of oil, casinghead gas, and associated hydrocarbons from Border Wells shall not extend to, and, in the absence of requisite authorizations from applicable governmental authorities, Socorro is hereby expressly prohibited from, gathering, commingling, and/or storing any oil, casinghead gas, and associated hydrocarbons produced from a non-Border Well on the West "A" Lands or the West "B" Lands with oil, casinghead gas, and associated hydrocarbons produced from a non-Border Well on the other of such lands.

Testing of Wells. To the extent that Socorro shall 4. produce, gather, transport, and/or store oil, casinghead gas, and/or associated hydrocarbons from a Border Well in Common Gathering and Storage Facilities without separately measuring the daily volumes of such production, then, for so long as Socorro shall continue such practice, Socorro shall periodically conduct, as hereinafter specified, a well test upon each well producing into the applicable Common Gathering and Storage Facilities. Socorro shall conduct such well test by producing the oil from each applicable well consistent with customary practice for twenty-four hours into a test tank or other segregated storage facility, duly measuring and recording the total volume of oil produced from each applicable well during the test period. Following completion of each such well test, Socorro may store in Common Gathering and Storage Facilities any oil produced during such test, and such oil shall be allocated as between wells and lands in accordance with the provisions of Paragraphs 5 and 7 of this Agreement. Socorro shall conduct the prescribed test upon each well producing into applicable Common Gathering and Storage Facilities during the first calendar month in which commingling commences and shall thereafter conduct a new test with respect to each such well so producing not more than sixty (60) days following the previous test. Socorro shall maintain all records relating to each well test performed pursuant to this Agreement for at least two (2) years following

each such test and shall make all such records available for inspection by the other parties hereto at its offices during normal business hours.

5. <u>Allocation of Commingled Oil Production Between Wells</u>. All oil produced by Socorro into Common Gathering and Storage Facilities without separate measurement thereof (other than pursuant to the well testing procedures prescribed above) shall be allocated on a monthly basis as between wells producing into such Common Gathering and Storage Facilities as follows:

(a) First, Socorro shall tabulate volumes for the most recent twenty-four hour well test for each well producing into the applicable Common Gathering and Storage Facilities. This shall constitute the daily test volume (the "Daily Test Volume") for each such well.

(b) Second, Socorro shall multiply the Daily Test Volume for each well by the number of days which the well actually produced during the applicable month to reach the projected monthly volume (the "**Projected Monthly Volume**") for each such well (Daily Test Volume of well x no. of days well produced in month = Projected Monthly Volume of well).

(c) Third, Socorro shall divide the Projected Monthly Volume of each such well by the total Projected Monthly Volume of all wells producing into the applicable Common Gathering and Storage Facilities to reach an allocated percentage of actual oil production (the "Allocated Percentage of Actual Oil Production") for each such well (Projected Monthly Volume of well ÷ Projected Monthly Volume of all wells = Allocated Percentage of Actual Oil Production of well).

(d) Finally, Socorro shall multiply the Allocated Percentage of Actual Oil Production for each Border Well times the total monthly volume of oil actually produced into the applicable Common Gathering and Storage Facilities to reach the allocated share of Actual Oil Production (the "Allocated Share of Actual Production") for each Border Well during such month (Allocated Percentage of Actual Oil Production of Border Well x total monthly volume of crude oil = Allocated Share of Actual Oil Production of Border Well).

The Allocated Share of Actual Oil Production for each Border Well, as determined pursuant to the foregoing, shall be allocated to and deemed produced from such Border Well for all purposes of this Agreement. The total monthly volume of oil actually produced into applicable Common Gathering and Storage Facilities less the Allocated Share of Actual Oil Production from all Border Wells producing into such facilities shall, in turn, be allocated to and deemed produced from the non-Border Wells producing into such Common Gathering and Storage Facilities. 6. <u>Allocation of Casinghead Gas and Associated Hydrocarbons</u> <u>Between Wells</u>. To the extent that Socorro shall produce casinghead gas and associated hydrocarbons from any Border Well into Common Gathering and Storage Facilities without separately metering or measuring the same, all such casinghead gas and associated hydrocarbons produced into the applicable Common Gathering and Storage Facilities shall be allocated monthly between wells in the proportion that the Projected Monthly Volume (as defined in Paragraph 5) of crude oil from each well producing casinghead gas and associated hydrocarbons into the applicable Common Gathering and Storage Facilities bears to the Projected Monthly Volume of crude oil of all wells producing casinghead gas and associated hydrocarbons into such Common Gathering and Storage Facilities.

7. <u>Allocation of Production from Border Wells as Between</u> <u>West "A" Lands and West "B" Lands</u>. Regardless of the actual location of any Border Well, the parties agree that all oil, gas, and other hydrocarbons produced and separately measured from any Border Well (other than pursuant to a well test as prescribed in Paragraph 4 above), and all oil, casinghead gas, and associated hydrocarbons deemed produced from any Border Well pursuant to Paragraphs 5 and 6 hereof, shall be allocated to and deemed produced from the West "A" Lands and the West "B" Lands in the following Proportions, depending upon the categorization of the particular Border Well:

· ·		n Percentage
Border Well Category	<u>West "A" Lands</u>	West "B" Lands
Category I Border Wells	25%	75%
Category II Border Wells	75%	25%
Category III Border Wells	50%	50%

8. <u>Binding Effect of Allocations</u>. The parties agree that the above-prescribed methods and procedures for allocating production between Border Wells and non-Border Wells of oil, casinghead gas and associated hydrocarbons and for allocating all production of oil, casinghead gas, and other hydrocarbons from Border Wells as between the West "A" Lands and the West "B" Lands, constitutes a fair and reasonable means of allocating such production and agree to be bound by all such allocations made in accordance with the procedures specified herein.

9. <u>Effect Upon Drainage Obligations</u>. As a material inducement to Socorro to enter into and perform under this Agreement, the West "A" Overriding Royalty Interest Owners and the West "B" Overriding Royalty Interest Owners hereby expressly release and relieve Socorro from any obligations, to protect either the West "A" Lands or the West "B" Lands from drainage as a consequence of the drilling of any Border Well pursuant hereto. 10. <u>Regulatory Compliance</u>. Socorro shall secure all necessary authorizations from applicable state and/or federal regulatory authorities for all operations and practices authorized herein, but it shall not be necessary for Socorro to issue notice to or obtain further authorizations from the West "A" Overriding Royalty Interest Owners or the West "B" Overriding Royalty Interest Owners in connection with such regulatory proceedings.

11. <u>Titles Unaffected</u>. This Agreement shall not constitute, or be deemed to constitute, a unitization, communitization, crossconveyance, or other transfer of the parties' respective rights and interests in the lands and leases which are the subject matter hereof. As a consequence, all oil, gas, and other hydrocarbons produced or deemed produced from the West "A" Lands (and the proceeds thereof) shall be owned by Socorro and the West "A" Overriding Royalty Interest Owners as their interests shall appear of record, and all oil, gas, and other hydrocarbons produced or deemed produced from the West "B" Lands (and the proceeds thereof) shall be owned by Socorro and the West "B" Overriding Royalty Interest Owners as their interests shall appear of record.

12. <u>Binding Effect</u>. This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and assigns. The obligations and agreements of the parties set forth herein are expressly intended to constitute covenants running with the land.

13. <u>Term of Agreement</u>. This Agreement shall be for a term commencing as of the Effective Date and continuing for so long as the West "A" Leases and the West "B" Leases, including any extensions or renewals thereof, shall remain in effect.

14. <u>Governing Law</u>. This agreement shall be governed by and construed in accordance with the laws of the State of New Mexico and the laws of the United States applicable to federal oil and gas leases.

15. <u>Entire Agreement</u>. This Agreement contains the entire agreement of the parties relating to the subject matter hereof and supersedes and replaces any oral or written communications heretofore made between the parties relating to such subject matter.

16. <u>Counterpart Signatures</u>. For the convenience of the parties, this Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same document. No counterpart need be executed by all parties in order to bind the

signatory party. For further convenience of the parties, the various partially executed signature and acknowledgement pages may be consolidated and attached to the body of this Agreement.

IN WITNESS WHEREOF, this Agreement is executed by the parties as of the dates set forth in their respective acknowledgements, but shall be effective for all purposes as of the Effective Date.

SOCORRO PETROLEUM COMPANY

By: A-H PETROLEUM CORP.

By:

Name: Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

By: HARMEX CORPORATION

By:

Name: Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

WEST "A" OVERRIDING ROYALTY INTEREST OWNERS:

HIGGINS TRUST

BY:

ITS: _____

NCNB TEXAS NATIONAL BANK, TRUSTEE UNDER THE WILL OF SELMA E. ANDREWS, DECEASED

BY:

ITS: _____

signatory party. For further convenience of the parties, the various partially executed signature and acknowledgement pages may be consolidated and attached to the body of this Agreement.

1

IN WITNESS WHEREOF, this Agreement is executed by the parties as of the dates set forth in their respective acknowledgements, but shall be effective for all purposes as of the Effective Date.

SOCORRO PETROLEUM COMPANY

By: A-H PETROLEUM CORP.

By:

Name: Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

By: HARMEX CORPORATION

By:

Name: Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

WEST "A" OVERRIDING ROYALTY INTEREST OWNERS:

HIGGINS TRUST BY: Vice President ITS:

NCNB TEXAS NATIONAL BANK, TRUSTEE UNDER THE WILL OF SELMA E. ANDREWS, DECEASED

BY:

ITS:

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF ______§ COUNTY OF ______§

On this _____ day of _____, 1992, before me appeared _____, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF <u>New Mexico</u> § COUNTY OF Eddy §

On this <u>l3th</u> day of <u>November</u> 1992, before me appeared <u>James E. Haas</u>, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is <u>James E.Haas</u>, that he/she is the <u>Vice President</u> of <u>Higgins Trust, Inc.</u> and that he/she executed

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

	SWORN	то	AND	SUBSCRIBED	before	me	on	this	13th	day	of	Novimber
1992.	,											

My Commission Expires:

10-24-95

Notary Public in and for the State of New Mexico

signatory party. For further convenience of the parties, the various partially executed signature and acknowledgement pages may be consolidated and attached to the body of this Agreement.

IN WITNESS WHEREOF, this Agreement is executed by the parties as of the dates set forth in their respective acknowledgements, but shall be effective for all purposes as of the Effective Date.

SOCORRO PETROLEUM COMPANY

By: A-H PETROLEUM CORP.

Bv:

Name: \Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

By: HARMEX CORPORATION

By:

Name: Mitchell L. Solich Title: Vice-President PARTNER OF SOCORRO PETROLEUM COMPANY

WEST "A" OVERRIDING ROYALTY INTEREST OWNERS:

HIGGINS TRUST

BY:

ITS: _____

NATIONSBANK OF TEXAS, N.A. TRUSTEE UNDER THE WILL OF SELMA E. ANDREWS, DECEASED

ITS: Asst. Vice President

Takt D# 75-6237536

BY: Sharon G. Gibbs

ACCT # 5188-02

THE ID # 75-6327535 - HECT # 5188-01

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____, 1992, before me appeared _____, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION	
STATE OF TEXAS \$	
COUNTY OF ALLAS S	
On this 15th day o	f_Octuber 1992, before me
appeared <u>Signed</u> <u>G</u> BBS to me personally known, who, being k that his/her name is <u>Signed</u>	y me duly sworn (or affirmed), did say
	PRESIDENT OF NATIONS 3 ANIC and that he/(she) executed
	on behalf of said corporation for the
SWORN. TO AND SUBSCRIBED Refore 1992. ELISA PIROZZO NOTARY PUBLIC STATE OF TEXAS My Comm. Exp. 08-19-96	e me on this $\frac{15^{th}}{15}$ day of $0 \frac{15^{th}}{15^{th}}$,
My Commission Expires	<u>Slin Fings</u> Notary Public in and for the State of

BRAILLE INSTITUTE OF AMERICA INC.

BY:	

ITS: _____

SAN DIEGO TRUST & SAVINGS BANK, TRUSTEE OF THE RALPH ALBERT SHUGART TRUST

BY:	
	<u> </u>

ITS: _____

SABINE ROYALTY TRUST

BY:

ITS:	

PETROLEUM ROYALTY SEARCH, INC.

BY:	

ITS: _____

JON C. HUGHES

(SPOUSE OF JON C. HUGHES)

JOHNNY G. ADAMS

(SPOUSE OF JOHNNY G. ADAMS)

.

	0/1
BRAILLE INSTITUTE OF AMERICA INC.	14 A
BY: Soward O. Wilson	
Howard O. Wilson	
ITS:Dir. Financial Affairs	
SAN DIEGO TRUST & SAVINGS BANK,	
TRUSTEE OF THE RALPH ALBERT SHUGART TRUST	
BY:	
ITS:	
SABINE ROYALTY TRUST	
BY:	
ITS:	
11 5	
PETROLEUM ROYALTY SEARCH, INC.	
BY:	
ITS:	
JON C. HUGHES	
(SPOUSE OF JON C. HUGHES)	
JOHNNY G. ADAMS	
JOHNNY CADAME	

•

۲**.** بر

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF _____§ COUNTY OF _____§

	On	this _		_ day (of_					_/	1992,	be	fore	me
appeared														
to me per	sonally	known,	who,	being	by	me	duly	sworn	(or	af	firmed	$\overline{)},$	did	say
that his/				-	-		-					•		-

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF California § COUNTY OF Los Angeles §

On this 21st day of October 1992, before me appeared Howard O. Wilson ', to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is Howard O. Wilson ', that he/she is the Director of Financial Affairs of Braille Institute of ', America, Inc. ______ and that he/she executed

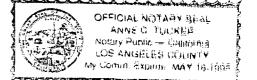
the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this 21st day of October 1992.

My Commission Expires: May 16, 1995

Notary Public in and for the State of

COOPERATIVE DEVELOPMENT AGREEMENT - PAGE 14



BRAILLE INSTITUTE OF AMERICA INC.

BY:	MINHumchmal	NUTARIZE
	MARGARET W. HUMPHREY	PAGE 14
ITS:	TRUST OFFICER	Curpertin Developin
SABIN	E ROYALTY TRUST	Developm Acreem
BY:		
ITS:	LEUM ROYALTY SEARCH,	INC.
PETRO:		INC.
PETRO: BY:	LEUM ROYALTY SEARCH,	INC.
PETRO:		INC.
PETRO: BY: ITS: _		INC.

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____, 1992, before me appeared _____, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is _____

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

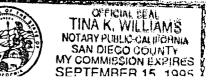
Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION	
STATE OF CALIFORNIA S	RALPH A. Shubart TR SIGNATURE PAGE 8.
COUNTY OF SANDELO §	SIEVITURE PAGE 8.
on this <u>2157</u> day of	DCTOBER 1992, before me
to me personally known, who, being by	me duly sworn (or affirmed), did sav
that his/her name is MARHADOT W H	IMPHRCU
that De/she is the	of SANDIEGO TRIFT
& SAUINING BANK	and that he/she executed
the above and foregoing instrument on	behalf of said corporation for the
uses and purposes set forth herein.	
SWORN TO AND SUBSCRIBED before m	e on this <u>21st</u> day of <u>October</u> ,

My Commission Expires:

Notary Public in and for the State of

COOPERATIVE DEVELOPMENT AGREEMENT - PAGE 14



BRAILLE INSTITUTE OF AMERICA INC.

BY:

ITS: _____

SAN DIEGO TRUST & SAVINGS BANK, TRUSTEE OF THE RALPH ALBERT SHUGART TRUST

BY:	-
-----	---

ITS: FOR SABINE ROYALTY TRUST, NATIONSBANK OF TEXAS, N.A. (AS SUCCESSOR) TRUSTEE, BY PACIFIC ENTERPRISES ABC CORPORATION, IN EXERCISE OF ITS EXECUTIVE RIGHTS

XECUTI	VE RIGHTS	nel
BY:	At James Dallar	24.7
	H. James Gallagher Executive Vice President	au!!
ITS:	Executive Vice President	72.1
		C

PETROLEUM ROYALTY SEARCH, INC.

BY:_____

ITS: _____

JON C. HUGHES

(SPOUSE OF JON C. HUGHES)

JOHNNY G. ADAMS

(SPOUSE OF JOHNNY G. ADAMS)

×.

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF _____§ COUNTY OF _____§

On this _____ day of _____, 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF <u>Texas</u> STATE OF <u>Dallas</u> on this <u>28th</u> day of <u>October</u> 1992, before me appeared <u>H. James Gallagher</u> to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is <u>H. James Gallagher</u> that he/she is the <u>Exec vice President</u> of <u>Racific Enterprises</u> <u>ABC Company</u> and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein. SWORN TO AND SUBSCRIBED before me on this <u>28th</u> day of <u>Octuber</u>,

1992.

Commission Expires: A PRAIL CASE AND A DECEMBER OF A ELAINE G. KING Notary Public STATE OF TEXAS My Commission Expires 9/10/94 ELECTRE ELECTRE FRANK

Elaine H. K

Notary Public in State of

COOPERATIVE DEVELOPMENT AGREEMENT - PAGE 14

BRAILLE INSTITUTE OF AMERICA INC.

BY:_____

ITS: _____

SAN DIEGO TRUST & SAVINGS BANK, TRUSTEE OF THE RALPH ALBERT SHUGART TRUST

BY:_____

ITS: _____

SABINE ROYALTY TRUST

BY:	
ITS:	

PETROLEUM ROYALTY SEARCH, INC.

_____ BY: ITS: __President

JON C. HUGHES

(SPOUSE OF JON C. HUGHES)

JOHNNY G. ADAMS

(SPOUSE OF JOHNNY G. ADAMS)

3. J

STATE OF _____§ COUNTY OF _____ §

On this _____ day of _____, 1992, before me appeared to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is _____

, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION

TEXAS STATE OF § § COUNTY OF MIDLAND Ş

On this ^{21st} day of September 1992, before me appeared <u>Roger C.</u> Letz to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is Roger C. Letz that he/she is the President of _____ Petroleum Royalty Search, Inc. and that he/she executed

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this 21st day of September , 1992.

My Commission Expires:

CECECCELL COCCECCE WENDY R. NEATHERLIN Notary Public, State of Texas My Comm. Expires 8-18-96 PERATIVE DEVELOPMENT AGREEMENT - PAGE 14 TATATATATA

Notary Public in and for the State of Texas.

BRAILLE INSTITUTE OF AMERICA INC.

BY:_____

ITS: _____

SAN DIEGO TRUST & SAVINGS BANK, TRUSTEE OF THE RALPH ALBERT SHUGART TRUST

BY:____

ITS: _____

SABINE ROYALTY TRUST

BY: _____

PETROLEUM ROYALTY SEARCH, INC.

BY:_____ ITS: JON/C. HUGH HUGHES) SPOUSE OF JON Ċ.

JOHNNY G. ADAMS

(SPOUSE OF JOHNNY G. ADAMS)

.

STATE OF <u>levus</u>
COUNTY OF Harris s and a radiate
on this 22 day of OCHOBIC, 1992, before me appeared
to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is
, and that he/she/they executed the above and foregoing instrument of
his/her/their own free will.
1992 SANCRA L REFERENCE HILL CONTROL AND SUDSCRIBED before me on this 20 day of 1992 HILL CONTROL AND SUDSCRIBED before me on this 20 day of 1992 HILL CONTROL AND SUDSCRIBED before me on this 20 day of 1992
Landra & KANAAMAA
My commission Expires: <u>XIIIIIIII MULTINE MULTINE</u> Notary Public in and for the
<u>Ibruary 18,1996</u> State of
O
ACKNOWLEDGEMENT FOR CORPORATION
STATE OF§
S COUNTY OFS
On this day of 1992, before me
to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is,
that he/she is the of
and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.
SWORN TO AND SUBSCRIBED before me on this day of, 1992.
My Commission Expires:

Notary Public in and for the State of

THELMA ADAMS HUDMAN

(SPOUSE OF THELMA ADAMS HUDMAN)

JOE W. ADAMS

(SPOUSE OF JOE W. ADAMS)

ED M. LAWRENCE

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

PERRY **ÚGHES** HUGHES)

THELMA ADAMS HUDMAN

(SPOUSE OF THELMA ADAMS HUDMAN)

ED M. LAWRENCE

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

ACKNOWLEDGEMENT FOR INDIVIDU	AL
------------------------------	----

STATE OF Lew Minice COUNTY OF Eddel on this 15th day of <u>ACOULA</u>, 1992, before me When I Dug appeared to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is <u>Multiple</u> Muches

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this 15th day of 910/1/2, 1992.

My Commission Expires: May 23, 1993

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____ 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is ______, that he/she is the ______ of _____,

and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the

Thelma Adams Hudman

(SPOUSE OF THELMA ADAMS HUDMAN)

JOE W. ADAMS

(SPOUSE OF JOE W. ADAMS)

ED M. LAWRENCE

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

STATE OF <u>Texas</u> State of <u>Texas</u> S COUNTY OF <u>Lubbock</u> on this <u>14</u> day of <u>October</u>, 1992, before me appeared <u>Thelma</u> <u>Adams</u> <u>Hudman</u> 4 <u>Wylie</u> <u>Hudman</u>, to me personally known, who, being by me duly sworn (or affirmed), did say that his/ber/their name

that his/her/their name is are the same as a Thelma Hadams Hudman + Wylie Hudman , and that he/she/they executed the above and foregoing instrument of

his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this 14 day of October, 1992.

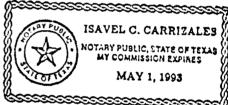
My Commission Expires:

Mary 1,1993

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF ______§ COUNTY OF _____ § Notary Public in and for the

State of



	On	this _		_ day	of				1992,	before	e me
appeared _											/
to me perso that his/h			who,	being	by m	e duly	sworn	(or	affirmed), did	say
that he/sh	e is t	he					of		·····		/
							and	tha	at he/she	- eveci	1ted

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

THELMA ADAMS HUDMAN

(SPOUSE OF THELMA ADAMS HUDMAN)

JOE W. ADAMS

(SPOUSE OF JOE W. ADAMS)

El M Lawrence

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

(SPOUSE OF HERBERT PRUIT PAT JOYCE, JR.)

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

Ed M Laur ED M. LAWRENCE

rine (SPOUSE OF ED M. LAWRENCE)

STATE OF TEXAS _§ § COUNTY OF TARRANT §

On this <u>23rd</u> day of <u>September</u>, 1992, before me appeared <u>Ed M. Lawrence & Martha H. Lawrence</u>, to me personally known, who, being by me duly sworn (or affirmed), did say that his her/their name is Ed M. Lawrence & Martha H. Lawrence

, and that has she they executed the above and foregoing instrument of windex their own free will.

SWORN TO AND SUBSCRIBED before me on this 23rd day of September 1992.

My Commission Expires:

January 7, 1995

Batty Attachens Betty Stephens Notary Public in and for the

State of Texas

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§ §

COUNTY OF _____§

	On	this _		_ day	of				1992,	be	fore	me
appeared			-						-			
to me per	sonally	known,	who,	being	by me	duly	sworn	(or	affirme	d),	did	say
that his/	her nam	e is 🔄				_		-		• ·		/
that he/s	she is t	he					of					
							and	tha	t he/sh	ie e	xecu	ited

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

THELMA ADAMS HUDMAN

(SPOUSE OF THELMA ADAMS HUDMAN)

JOE W. ADAMS

(SPOUSE OF JOE W. ADAMS)

ED M. LAWRENCE

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM H. EYSSEN, JR.

Martin H. Cum

(SPOUSE OF WILLIAM H. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

WILLIAM H. EYSSEN

(SPOUSE OF WILLIAM H. EYSSEN, JR.)

ELDON CRISMAN

KATHLEEN CRISMAN

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

SISTERS OF ST. FRANCIS OF ASSISI

BY: _____

•

•

.

STATE OF TEXAS &
STATE OF <u>IEMS</u>
COUNTY OF ARPAN S
appeared Willi AM H ESSEN JR And DOROTHER H EYSSEM, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is WilliAM H ESSEN JL And DOROTHER H EYSSEM , and that he/she/they executed the above and foregoing instrument of his/her/their own free will.
SWORN TO AND SUBSCRIBED before me on this $\frac{23}{2}$ day of $\frac{23}{2}$ day of $\frac{23}{2}$ 1992.
My Commission Expires: 04-39-96 Notary Public in and for the State of MOTARY PUBLIC STATE OF TEXAS My Comm. Exp.04-29-96
ACKNOWLEDGEMENT FOR CORPORATION
STATE OF§ COUNTY OF§
On this day of 1992, before me
appeared, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is,
that he/she is the of and that he/she executed
the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.
SWORN TO AND SUBSCRIBED before me on this day of, 1992.
My Commission Expires:

Notary Public in and for the State of

THELMA ADAMS HUDMAN

(SPOUSE OF THELMA ADAMS HUDMAN)

JOE W. ADAMS

(SPOUSE OF JOE W. ADAMS)

ED M. LAWRENCE

(SPOUSE OF ED. M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

WILLIE OPAL HAM

(SPOUSE OF WILLIE OPAL HAM)

ELDON CRISMAN

KATHLEEN CRISMAN

ACKNOWLEDGEMENT FOR INDIVIDUAL STATE OF IEXA< COUNTY OF / § 1992, before me On this \propto day of WILLIE appeared to me personally known, who, being by me duly sworn (or affirmed), did say _, and that he/she/they executed the above and foregoing instrument of his/her/their own free will. SWORN TO AND SUBSCRIBED before me on this day of 1992. My Commission Expires: ATA MATH PUDLic in and for the EXA S Notary Public f STATE OF TEXAS My Comm. Exp. JULY 25 1994 ACKNOWLEDGEMENT FOR CORPORATION STATE OF _____ § Ş Ş COUNTY OF On this _____ day of _____ 1992, before me appeared to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is that he/she is the ____ _ of and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein. SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

<u>Peccas</u> ELDON CRISMAN

Kattileen Cresmun KATHLEEN CRISMAN Lucile HAWLEY

(SPOUSE OF LUCILE HAWLEY)

SISTERS OF ST. FRANCIS OF ASSISI

BY: ITS: _____

1 3

STATE OF ILLINOIS § § COUNTY OF LASALLE §

7-23-95

 \land

On this _____ day of October____, 1992, before _____ appeared KATHLEEN CRISMAN to me personally known, who, being by me duly sworn (or affirmed), did same that his/her/their name is _______ Kathlern CKISMAN

____, and that he/she/they executed the above and foregoing instrument = his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this gth day of October 1992. " OFFICIAL SEAL " } KATHLEEN L. JACKSON } My Commise Montany PUBLIC, STATE OF ILLINOIS

<u>Hathleen</u> Notary Public in and for

State of Illinois

161	Notary's Certificate of Acknowledgment	Perfection Legal Forms & Printing Co., Rackter
	STATE OF ILLINOIS,	I,the undersigned
ą .	LaSalleCounty,	a Notary Public in and for the said County of LaSalle
Ý	in the State of Illinois, DO H	EREBY CERTIFY, that Lucile Hawley
4		· ·
	Import to me to be the sume	
		personwhose nameissubscribed to the foregoin ne this day in person and acknowledged that <u>S_he</u> signed, sealed and delivere
1	the said instrument as her	free and voluntary act, for the uses and purposes therein set forth, includin
	the release and waiver of the	
,	GIVEN under my hand	
Y	0 (TODEN "OFFICIAL SEAL" ROBERT H. RECK Notary Public, State of Illin My Commission Expires 12-3	
•		

My Commission Expires:

Notary Public in and for the State of

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

GUY KEEL GUFFEE, JR.

(SPOUSE OF GUY KEEL GUFFEE, JR.)

LILLIAN C. KEEL

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

BY:

ITS: _____

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

HERBERT PRUIT PAT JOYCE, JR.

LUCILE HAWLEY

1

(SPOUSE OF LUCILE HAWLEY)

<u>Asing Keel Auffer</u> GUY KEEL GUFFEE, JR. <u>Manh Duffee</u> (SPOUSE OF GUY KEEL GUFFEE, JR.)

LILLIAN C. KEEL

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

BY:

ITS: ____

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

х _н.

STATE OF <u>akansas</u>						
COUNTY OF Whichington \$						
On this 14th	, day o	f_ Novem	her	_, 1992,	before	me
appeared any Keel Muller,	h & M	Marilun 1	Muller			,
to me personally known, who?	being h	oy me/duly	sworn (or	affirmed), did,	şay
that his/her/their name is	Guy K	rel Duffer	In and	marilin	1. Mal	1.0
· · ·	9	00	0	<i>F</i> (7 00	

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this 14th day of Maconduc, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION		
STATE OF§ §		
COUNTY OF§		
On this day of appeared _	of	1992, before me
appeared to me personally known, who, being be	by me duly sworn (or af	firmed), did say
that he/she is the	of and that	he/she executed
the above and foregoing instrument uses and purposes set forth herein	on behalf of said cor	
SWORN TO AND SUBSCRIBED befor 1992.	e me on this da	y of,
My Commission Expires:	Notary Public in and State of	for the

LUCILE HAWLEY

• • • •

.

(SPOUSE OF LUCILE HAWLEY)

GUY KEEL GUFFEE, JR.

(SPOUSE OF GUY KEEL GUFFEE, JR.)

<u>Sellian C. Keel</u>

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

BY:

ITS:

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

HERBERT PRUIT PAT JOYCE, JR.

STATE OF Juke §	
COUNTY OF Daclar §	
	f. Uctoher , 1992, before me
to me personally known, who, being	by me duly sworn (or affirmed), did say
that his/her/their name is Kill	an C. Koel
, and that he she they executed his/her/their own free will.	the above and foregoing instrument of
	e me on this 14 day of clober,
1992. Mary Nell Johnson Notary Public, State of Texas My Comm. Expires 09/19/93	
My Commission Expires:	Many Null Johnson Notary Public in and for the
September 19, 1993	Notary/Public in and for the State of
ACKNOWLEDGEMENT FOR CORPORATION	
STATE OF§	
S COUNTY OFS	
On this day of appeared	of 1992, before me
to me personally known, who, being	by me duly sworn (or affirmed), did say
that his/her name is that he/she is the	of
	and that he/she executed
the above and foregoing instrument uses and purposes set forth herein	on behalf of said corporation for the .
SWORN TO AND SUBSCRIBED befor 1992.	e me on this day of,
My Commission Expires:	
	Notary Public in and for the State of

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

GUY KEEL GUFFEE, JR.

(SPOUSE OF GUY KEEL GUFFEE, JR.)

LILLIAN C. KEEL

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

Sister Bat Zolecki, 8. J.F. BY: Scatter Donies Pikawoki No SECRETARY / TTC.

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

ELDON CRISMAN

KATHLEEN CRISMAN

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

SISTERS OF ST. FRANCIS OF ASSISI

ATTEST:

-

Sister Pat Zolecki, 0. J.T. SECRETARY

Sector	Douc	Pilau	reke	D3F
7				

BY: ITS: PRESIDENT

STATE OF _____§ ş COUNTY OF _____§

On	this	_ day c	of				1992,	before	me
appeared							· · · · ·		,
to me personally that his/her/the		being	by me	duly	sworn	(or af	firmed), did	say
and that h	e/she/they e	executed	d the	above	and	foregoi	na ins	trument	

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

ACKNOWLEDGEMENT FOR CORPORATION
STATE OF WISCONSIN \$
COUNTY OF <u><i>HICJAUREE</i></u> S
on this $\frac{17}{12}$ day of <u>ACJEMBER</u> 1992, before me appeared <u>SISTER DIRIS FEHRIUSE</u>
to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is
that he/she is the $\underline{FCSIDENT}$ of $\underline{MESISTERS}$ $\underline{M-ST}$ $\underline{STSINLIS}$ $\underline{M-SSISI}$ and that he/she executed
the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.
SWORN TO AND SUBSCRIBED before me on this 12000 day of 2000 , 1992.
My Commission Expires: Notary Public in and for the
$\frac{-2}{2} = \frac{2}{2}$ COOPERATIVE DEVELOPMENT AGREEMENT - PAGE 14

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

GUY KEEL GUFFEE, JR.

(SPOUSE OF GUY KEEL GUFFEE, JR.)

LILLIAN C. KEEL

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

BY:

ITS:

wdewart (watow)

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

HERBERT PRUIT PAT JOYCE, JR.

STATE OF <u>New Meticos</u> COUNTY OF <u>Chaves</u>

appeared <u>Rachel Vandewart</u>, <u>auridow</u>, 1992, before me to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is <u>Rachel Vandewart</u>

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this 15t day of October, 1992.

My Commission Expires:

Fanice arch

Notary Public in and for the State of New Merrico

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____ 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is _______, that he/she is the _______ of ______, and that he/she avecuted

and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

GUY KEEL GUFFEE, JR.

(SPOUSE OF GUY KEEL GUFFEE, JR.)

LILLIAN C. KEEL

(SPOUSE OF LILLIAN C. KEEL)

SISTERS OF ST. FRANCIS OF ASSISI

BY:

ITS: _____

RACHEL VANDEWART

(SPOUSE OF RACHEL VANDEWART)

EDNA EARL WINTERS

(SPOUSE OF EDNA EARL WINTERS)

Herbert Puit Pat Jours J. HERBERT PRUIT PAT JOYCE, JR.

PRUIT PAT JOYCE, JR.) (SPOUS

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

STATE OF <u>New Mexico</u> § COUNTY OF <u>Chaves</u> §

On this <u>22nd</u> day of <u>September</u>, 1992, before me appeared <u>Herbert Pruit Pat Joyce Jr and Kim Joyce</u>, to me personally known, who, being by me duly sworn (or affirmed), did say that MXX/XXXXX their names is <u>Herbert Pruit Pat Joyce Jr and Kim Joyce</u>

____, and that he/she/they executed the above and foregoing instrument of MXS/WSE/their own free will.

SWORN TO AND SUBSCRIBED before me on this 22nd day of September , 1992.

My Commission Expires:

3-10-95

Notary Public in and for the

State of New Mexico

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____ 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is ______, that he/she is the ______ of _____,

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

Notary Public in and for the State of

DAVID W. WINTERS AND THOMAS EARL WINTERS, EXECUTORS OF THE ESTATE OF EDNA EARL WINTERS, DECEASED

DAVID W. WINTERS, EXECUTOR

THOMAS EARL WINTERS, EXECUTOR

DAVID W. WINTERS, GUARDIAN OF T. W. WINTERS, SPOUSE OF EDNA EARL WINTERS, DECEASED DAVID W. WINTERS, GUARDIAN

HERBERT PRUIT PAT JOYCE, JR.

(SPOUSE OF HERBERT PRUIT PAT JOYCE, JR.)

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

WANDA WOMBLE

(SPOUSE OF WANDA WOMBLE)

STATE OF TEXAS § COUNTY OF LATTAR \$

On this day of <u>Monulus</u>, 1992, before me appeared David W. Winters, to me personally known, who, being by me duly sworn (or affirmed), did say that his name is David W. Winters, and that he is the Executor of the Estate of Edna Earl Winters, Deceased, and that he executed the above and foregoing instrument of his own free will.

SWORN TO AND SUBSCRIBED before me on this 1 day of Normalin, 1992.

WANDA COX Notary Public, State of Texas My Commission My Comm. Exp. 3-14-93 Notary Public in and State of

ACKNOWLEDGEMENT FOR INDIVIDUAL

STATE OF \underline{TKAS} § COUNTY OF $\underline{AMPASAS}$ §

On this <u>Mark</u> day of <u>NOYKMBER</u>, 1992, before me appeared Thomas Earl Winters, to me personally known, who, being by me duly sworn (or affirmed), did say that his name is Thomas Earl Winters, and that he is the Executor of the Estate of Edna Earl Winters, Deceased, and that he executed the above and foregoing instrument of his own free will.

SWORN TO AND SUBSCRIBED before me on this $\frac{164}{1992}$ day of $\frac{104EMBER}{1992}$.

RITA KINCHELOE My Commission Expires 3-8-93

My Commission Expires:

03108/93

Notary Public in and for the State of

(SPOUSE OF HERBERT PRUIT PAT JOYCE, JR.)

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

(SPOUSE OF HERBERT PRUIT PAT JOYCE, JR.)

Kettner

Eddie DKi (SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

-

ACKNOWLEDGEMENT FOR INDIVIDUAL
STATE OF CLARADESS
COUNTY OF falasti s
On this <u>22</u> day of <u>September</u> , 1992, before me
appeared
to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is <u>personally known</u> , who, being by me duly sworn (or affirmed), did say
, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.
SWORN TO AND SUBSCRIBED before me on this 22 day of Aptendeu, 1992.
$\int \mathcal{O} $
My commission Expires: Mly Casher
$\frac{1}{1} - \frac{1}{2} - \frac{9}{2}$ Notary Public, in and for the State of $\frac{1}{2}$ State of $\frac{1}{2}$
ACKNOWLEDGEMENT FOR CORPORATION
STATE OF§
S S COUNTY OF S
On this day of 1992, before me
appeared
to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is
that he/she is the of
and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.
SWORN TO AND SUBSCRIBED before me on this day of, 1992.
My Commission Expires:Notary Public in and for the
State of

COOPERATIVE DEVELOPMENT AGREEMENT - PAGE 14

-

JACKIE KELTNER

1

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

Phanda Hamble WANDA WOMBLE

P.G. Womble

(SPOUSE OF WANDA WOMBLE)

VIRGINIA ADAMS

(SPOUSE OF VIRGINIA ADAMS)

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

STATE OF TEXAS s county of NOLAN s

On this $\underline{&th}$ day of $\underline{OCTOBER}$, 1992, before me appeared $\underline{&ANDA} \neq \underline{P.A.} \\ womble$, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is $\underline{WANDA} \neq \underline{P.A.} \\ womble$

_____, and that hc/shc/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this <u>8th</u> day of <u>OCTOBER</u>, 1992.

My Commission Expires: <u>4-9-93</u>

Sin ann Suaunigin Notary Public in and for the State of TEXAS



ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§

COUNTY OF _____§

On this _____ day of _____ 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is ______, that he/she is the ______ of ______, and that he/she executed

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA WOMBLE

(SPOUSE OF WANDA WOMBLE)

Jims Muna VIRGINIA ADAMS MUNCY

liense

(SPOUSE OF VIRGINIA ADAMS)

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

STATE OF $\underline{7EXA5}$ s county of NOLAN s

on this <u>22</u> day of <u>SEPTEMBER</u>, 1992, before me appeared <u>Mignin adams</u> <u>Muney</u> to me personally known, who, being by ne duly sworn (or affirmed), did say that <u>his/her/their</u> name is <u>Dirginia</u> <u>Adams</u> <u>Muncy</u>

____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this 22 day of <u>SEPTEMBER</u> 1992. My Commission Light Foldic, State of Texas 4-9-93SWORN TO AND SUBSCRIBED before me on this 22 day of <u>SEPTEMBER</u>. Notary Public in and for the State of TEXAS

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§ §

COUNTY OF _____§

On this _____ day of _____ 1992, before me appeared ______, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her name is ______, that he/she is the ______ of _____,

and that he/she executed the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

JACKIE KELTNER

.,4

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

STATE OF The Merico S COUNTY OF Charles S

appeared <u>6 Armand Johnston</u>, 1992, before me to me personally known, who, being by me duly sworn (or affirmed), did say that his/ber/their name is <u>6 Barnard</u> Johnston

_____, and that he/she/they executed the above and foregoing instrument of his/her/their own free will.

SWORN TO AND SUBSCRIBED before me on this <u>23nd</u> day of <u>September</u>, 1992.

My Commission Expires: 3-10.95.

Notary Public in and for

State of

ACKNOWLEDGEMENT FOR CORPORATION

STATE OF _____§

		3
COUNTY	OF	§

	On	this _		_ day	of		<u></u>		1992,	before	e me
appeared				-							,
to me per that his,			who,	being	by me	e duly	sworn	(or a	ffirmed), did	say
that he/s							of				/
							and	that	he/she	exect	ited

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

JACKIE KELTNER

(SPOUSE OF JACKIE KELTNER)

VERNE BISHOP

(SPOUSE OF VERNE BISHOP)

WANDA JUNE ADAMS WOMBLE, EXECUTRIX OF THE ESTATE OF HENRY BUSTER ADAMS, DECEASED

E. BERNARD JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

MARY E. JOHNSTON, CO-PERSONAL REPRESENTATIVE OF THE ESTATE OF JANE S. JOHNSTON, DECEASED

WEST "B" OVERRIDING ROYALTY INTEREST OWNERS:

ED M. LAWRENCE

(SPOUSE OF ED M. LAWRENCE)

STATE OF Main Merical S COUNTY OF <u>Charts</u> On this <u>23rd</u> day of <u>September</u>, 1992, before me appeared <u>Martic formition</u>, to me personally known, who, being by me duly sworn (or affirmed), did say that his/her/their name is <u>Marty to Phriston</u> ______, and that he/she/they executed the above and foregoing instrument of his/her/their own free will. SWORN TO AND SUBSCRIBED before me on this <u>23rd</u> day of <u>September</u>, 1992. My Commission Expires: <u>Jack Marty Public</u> in and for the State of ACKNOWLEDGEMENT FOR CORPORATION STATE OF ______S

the above and foregoing instrument on behalf of said corporation for the uses and purposes set forth herein.

SWORN TO AND SUBSCRIBED before me on this _____ day of _____, 1992.

My Commission Expires:

COUNTY OF ______§

WILLIAM M. EYSSEN, JR.

(SPOUSE OF WILLIAM M. EYSSEN, JR.)

ELDON CRISMAN

KATHLEEN CRISMAN

LUCILE HAWLEY

(SPOUSE OF LUCILE HAWLEY)

SISTERS OF ST. FRANCIS OF ASSISI

BY: _____

STATE OF COLORADO § § COUNTY OF DENVER §

On this 16th day of September, 1992, before me appeared, Mitchell L. Solich, to me personally known, who, being by me duly sworn (or affirmed), did say that he is the Vice-President of A-H Petroleum Corporation, Partner of Socorro Petroleum Company, a partnership, and that he executed the above and foregoing instrument on behalf of said partnership and acknowledged said instrument to be the free act and deed of said partnership.

SWORN TO AND SUBSCRIBED before me on this 16th day of September, 1992.

My Commission Expires: My commission expires August 19, 1995.

Jane Starlyck Notary Public in and for the

State of Colorado

STATE OF COLORADO § § COUNTY OF DENVER §

On this 16th day of September, 1992, before me appeared, Mitchell L. Solich, to me personally known, who, being by me duly sworn (or affirmed), did say that he is the Vice-President of Harmex Corporation, Partner of Socorro Petroleum Company, a partnership, and that he executed the above and foregoing instrument on behalf of said partnership and acknowledged said instrument to be the free act and deed of said partnership.

SWORN TO AND SUBSCRIBED before me on this 16th day of September, 1992.

My Commission Expires:

Dare Champ A

Notary Public in and for the State of Colorado

EXHIBIT "A"

WEST "A" LEASES AND LANDS

United States Oil and Gas Lease No. LC 029426(a) dated February 1, 1989, from the United States of America, as Lessor, to Atlantic Richfield Company, as Lessee, covering and pertaining to Lots 1, 2, 3, and 4 and the $S_{2}^{1}N_{2}^{1}$ of Section 3, and Lots 1 and 2, the $S_{2}^{1}NE_{4}^{1}$ and the SE¹ of Section 4, all in T-17-S, R-31-E, N.M.P.M., Eddy County, New Mexico, containing 639.56 acres more or less, from the surface of the earth down to the top of the Glorietta formation.

END OF EXHIBIT "A"

EXHIBIT "B"

WEST "B" LEASES AND LANDS

United States Oil and Gas Lease No. LC 029426(b) dated March 1, 1991, from the United States of America, as Lessor, to Atlantic Richfield Company, as Lessee, covering and pertaining to the S_2^1 of Section 3, Lots 3 and 4, the $S_2^1NW_3^1$, and the SW_3^1 of Section 4, all of Section 9, and all of Section 10, T-17-S, R-31-E, N.M.P.M., Eddy County, New Mexico, containing 1,919.88 acres, more or less, from the surface of the earth down to the top of the Glorietta formation.

END OF EXHIBIT "B"

EXHIBIT "C"

