Ph. 505-622-1299



January 27, 1993

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.24 H.E. West "A" - 2625'FNL, 15'FEL, Sec. 4, T.17S., R.31E. No.25 H.E. West "A" - 2625'FNL, 1335'FWL, Sec. 3, 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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

ERRY W LONG

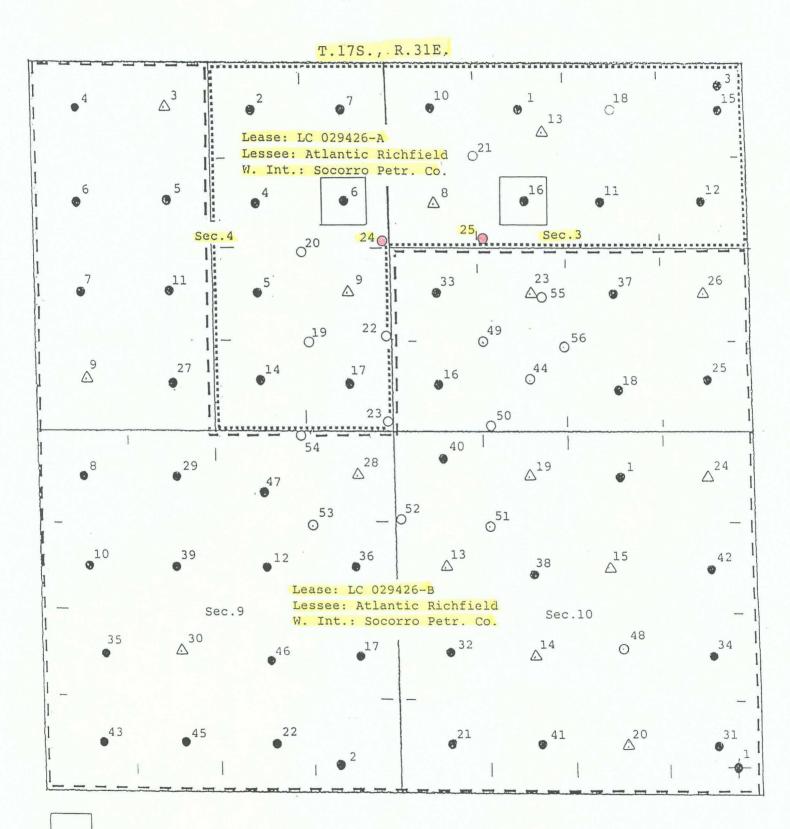
Permit/Agent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY 410 17th Street, Ste.430 Denver, CO 80202

Attn: Mr. Keeton Barker

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



Standard Location

O Proposed Location

OWNERSHIP MAP
(Grayburg)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

Expires: December 31, 1991

5. LEASE DESIGNATION AND BESIAL NO.

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Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.	production	n casing to '	TD, cemented	with su	fficier	nt ceme:	nt to	isolate porous	zones.
formation and test to tanks.	Selective	Ly perforate	favorable Gr	ayburg	zones.			_	
formation and test to tanks.	Run 2-7/8	" tubing to j	perforations	and tre	at form	nation	with 1	5% HCL. Sand-	frac
Con attached Duilling Data and Confine No. 31-									
See attached Drilling Data and Surface Use Plan.	See attac	hed <u>Drilling</u>	Data and Sur	face Us	e Plan	•			

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

JERRY W. LONG

TITLE

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

DATE

DATE

DATE

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410

Operator SOC	CORRO PETROLE	UM COMPANY	Lease	H. E. W	VEST "A"		Well No. 24
Unit Letter	Section	Township	Range			County	<u> </u>
H	4	17 SOUTH		31 EAST	NMPM	<u></u>	EDDY
Actual Footage Lo		DTIL	4.5			E40	r
2625 fee		RTH line and	15· IPool		feet from	the EAS	line Dedicated Acreage:
3938.3	, -	urg-San Andres		/burg-Ja	ckson Po	ool	40 .
		the subject well by colored p					Acres Acres
	one lease is dedic	ated to the well, outline each	and identify	the ownership	thereof (both	as to working	ng interest and royalty).
	one lease of differ force-pooling, etc.?	rent ownership is dedicated to	the well, h	ave the interes	t of all owners	s been consol	idated by communitization,
Yes	No	If answer is "yes" type o	f consolidati	ion	NA		
		nd tract descriptions which l			ated. (Use reve	erse side of	
this form neces	sary.						
	-	o the well unit all interest rd unit, eliminating such in					nitization, forced-pooling,
							OR CERTIFICATION
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	 			I I			eby certify the the information ein is true and complete to the
				1		best of my kn	orwledge and battef.
	!				625'	Signature	W. Jones
	<u> </u>]]	7 26	Printed Nam	
	-			*		JERR Position	YW. LONG
	1					Perm	it Agent
	 					SOCORRO	PETROLEUM CO.
	į					1/4/	93
]					SURVEY	OR CERTIFICATION
) } }*************			
	i			İ	15'	-	fy that the well location shown vas plotted from field notes of
	1					-	s made by me or under my and that the same is true and
	ļ.			1		correct to t	he best of my knowledge and
				<u> </u>		belief.	
	l			1		Date Survey	MBER 10, 1992
	Į I			i		Signature &	
			·	+ — — — - 1		Professiona	l Surveyor
	i			İ		ا منتخص	JARY L. JONES
	Ì			İ			DARY L. JONES
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	the state of the s			7.4			GARY 1 200 88 7077
0 330 660	990 1320 1650	1980 2310 2640 20	00 1500	1000	500 Ó (Jar.	1944 dc10+14-264

SUBMIT IN TRIPLICATE.

Form approved. 04-0136 1, 1991

UNITED STATES	(Other instructions on reverse side)	Budget Bureau No. 106 Expires: December 31
PARTMENT OF THE INTERIOR	· ·	5. LEASE DESIGNATION AND BE

			OF THE IN				[5. LEASE DESIGNATION AND BERIAL NO.
	BURE	AU OF L	AND MANAG	EMENT				LC 029426-A
	CATION F	OR PE	RMIT TO D	RILL	OR DEE	PEN		6. IF INDIAN, ALLOTTEB OR TRIBE NAME
TYPE OF WORK DRIL TYPE OF WELL	LX		DEEPEN []-	7. UNIT AGESTMENT NAME Keel-West Waterflood Project
OIL V OA	a O	THER IN-	FILL WELL	SIN	CLE X	MULTIPLE		8. FARM OR LEASE HAME WELL NO.
NAME OF OPERATOR				Ph	.505-677-	3223		H.E. West "A" No.25
	SOCORRO PI	ETROLEU	M COMPANY	····				9. AM WELL NO.
	P.O. Box						-	10 WW. 10 100 100 100 100 100 100 100 100 100
LOCATION OF WELL (Re			Mexico 882		ate requiremen	tg. #)		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson Pool
At surface		•		-				11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
2625 FNL, 133	•	ec.3, 1	1.17S., R.	31E.		(Unit		AND SURVEY OR AREA
ne proposed prod. son	Same				•	(SENW	'	Sec.3, T.17S., R.31E.
DISTANCE IN MILES A								12. COUNTY OR PARISH 13. STATE
7.2 Air miles		t of Lo	oco Hills,					Eddy N.M.
DISTANCE FROM PROPU LOCATION TO NEAREST			151		OF ACEES IN			F ACRES ASSIGNED HS WELL
PROPERTY OR LEASE L (Also to nearest drig	, unit line, if a		15'	l	639.56 Ac		20 ===	40
DISTANCE FROM PROP TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLI	ETED,	933'±		900¹			tary
I. ELEVATIONS (Show wh		R. etc.)	333.7	1 4			1 10	22. APPROX. DATE WORK WILL START
3944.7 GL						•		As Soon As Possible
3.			PROPOSED CAS	ING AND	CEMENTING	PROGRAM		A DOOR HE TOODING
SIZE OF HOLE	GRADE, SIZE OF		WEIGHT PER P		SETTING D		- I	QUANTITY OF CEMENT
12-1/4"	8-5/8"	J-55	24.0#		560		460	± sx Class C (Circ)
7-7/8"	5-1/2"	J-55	17.0#		4900			± sx Class C
producer. productio Selective Run 2-7/8 formation	State ayn casing ly perfor " tubing and test	pproval to TD, ate fav to perf to tan	of the uncemented worable Graforations	northovith sayburd	odox loca sufficien g zones. reat form	tion is t cemen	s pendi nt to i	on-standard Grayburg ing. Set 5-1/2" solate porous zones.

DATE_

_ TITLE _

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

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

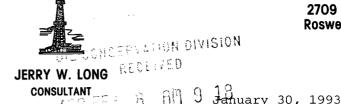
Santa Fe, New Mexico 87504-2088

DISTRICT III

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	SOCORRO	PETROLE	UM COMPANY		Lease	H. E. V	VEST "A"		Well No. 25	
Unit Letter	Secti	on	Township		Range			County		
· F		3	17 SOL	JTH		31 EAST	NMPM		EDDY	1
Actual Footag	e Location	of Well:						 		
2625	feet from	the NO	RTH line and		1335		feet from	the WES	T line	
Ground Level		Producing For			Pool				Dedicated Acreag	e:
3944	4.7	Graybu	arg-San Ar	ndres	Gray	burg-J	ackson P	ool	40	Acres
1. Outline t	the acreage		the subject well i							
2. If more Si	than one l	ease is dedica	ited to the well, o	outline each	and identify	the ownershi	p thereof (both	as to working	ng interest and roy	yalty).
3. If more	than one		_	dedicated to	the well, ha	ve the intere		been consol	lidated by commun	nitization.
□ Y	es	☐ No	If answer is	yes" type o	f consolidation	<u> </u>	NA			
this form n	ecessary		nd tract description							
			the well unit of the unit, eliminat						nitization, forced	i-pooling,
								OPERA	ror certifica	ATION
					1] [eby certify the the	- 1
		ì							rein is true and com nowledge and belief.	iplete to the
										1
		25'•						Signature	Do It Le	ma
		.26					 	Printed Nam	7/	}
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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.56 H.E. West "B" - 1205'FSL, 2530'FWL, Sec. 3, T.17S., R.31E. No.57 H.E. West "B" - 15'FSL, 2625'FWL, Sec. 3, T.17S., R.31E. No.58 H.E. West "B" - 1305'FNL, 2625'FWL, Sec.10, T.17S., R.31E. No.59 H.E. West "B" - 2625'FSL, 2625'FWL, Sec.10, T.17S., R.31E. No.60 H.E. West "B" - 2625'FNL, 1305'FWL, Sec.10, T.17S., R.31E. No.61 H.E. West "B" - 2625'FNL, 15'FWL, Sec.10, 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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

yerry "

Permit Agent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

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

T.17S., R.31E. **⊕**3: **9**² \triangle^3 15: Lease: LC 029426-A Lessee: Atlantic Richfield W. Int.: Socorro Petr. Co. △8 Sec.3 Sec. 4 △ 55 © 56 Q⁵⁰ △24 △19 △28 o⁵³ o⁵⁸ △¹³ Lease: LC 029426-B Lessee: Atlantic Richfield W. Int.: Socorro Petr. Co. △30 △¹⁴ • 32 △20 2 Sec.9 Sec.10

Standard Location

O Proposed Location

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

	- -		_			ļ	J. LEASE DESIGNATION A	ND BERIAL NO.
	BUREAU OF L	AND MANAGI	EMENT				LC 029426-B	
APPLIC	ATION FOR PE	RMIT TO D	RILL O	R DEE	PEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
la. TYPE OF WORK						<u>-</u>		
DRIL	L X	DEEPEN [7. UNIT ACREEMENT NA	
b. TYPE OF WELL							Keel-West Wat	erflood Project
OIL X VE	OTHER IN-	-FILL WELL	SINGLE ZONE	X	MULTIPL Zone	r 🗌	8. FARM OR LEASE NAME, WELL	LNO.
2. NAME OF OPERATOR			Ph.	505-67	7-3223		H.E. West "B"	No.56
9	OCORRO PETROLEU	M COMPANY			···		9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO. P	O. Box 37							
I	oco Hills, New	Mexico 882	55				10. FIELD AND POOL, OF	R WILDCAT
t. LOCATION OF WELL (Re. At surface	port location clearly and i	n accordance with	h any State	requireme	nts.*)		Grayburg-Jack	son Pool
	0'FWL, Sec.3,	r 17s . r 1	31 E		(Unit	N)	11. SEC., T., R., M., OR E AND SURVEY OR AR	LK.
At proposed prod. zone		1.170., 1	J		(SESW)			
• • •	Same				(SESW)	,	Sec.3, T.17S.	, R.31E.
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	r office.				12. COUNTY OR PARISH	13. STATE
7.2 Air mile	s northeast of	Loco Hills	, New M	lexico			Eddy	N.M.
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO. OF	ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL	<u></u>
PROPERTY OR LEASE L. (Also to nearest drig	INE, FT.	435'	1919	9.88 Ac	: .	"	40	
18 DISTANCE PROM PROPE	STD LOCATION®			SED DEPTH		20. ROTA	RY OR CABLE TOOLS	
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	S LEASE, FT.	800'±	4900	o'		Ro	tary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		·			 	22. APPROX. DATE WO	RE WILL START
3944.1' GL							As Soon As	Possible
23.		PROPOSED CASI	ING AND CI	EMENTINO	PROGRA	м м		
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER F	700T	SETTING	DEPTH	T	QUANTITY OF CEME	MT
12-1/4"	8-5/8" J-55	24.0#		560		460	t sx Class C (
7-7/8"	5-1/2" J-55	17.0#		4900	1		t sx Class C	
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Propose to	drill to about	4900' and	comple	te as	an in-f	Eill no	on-standard Gra	yburg
_	State approval		_					-
	casing to TD,					_	-	
-	y perforate fav						rrance Lerons	
DOTGO CTAGO	., porrorace rav	JIUDIO GIU	, ~ u. y _.					

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

IGNED CTTY	M. Jung	TITLE Permit Agent	DATE 1/18/93
This space for Federal or St			
ERMIT NO.		APPROVAL DATE	
pplication approval does not warrant ONDITIONS OF APPROVAL, IF ANY:	t or certify that the applicant holds legal	or equitable title to those rights in the subject lease w	hich would entitle the applicant to conduct operat

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

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

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

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

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from

Operator SOC	CORRO PETROLE	JM COMPANY	Lease	H.E. WEST	"B"		Well No. 56
Unit Letter	Section	Township	Range			County	
N	3	17 SOUTH		31 EAST	NMPM	·	EDDY
Actual Footage Loc							
	t from the SOL		2530		feet from	the WES	
Ground Level Elev 3944.1°	1	mauon y-San Andres	Pool	g-Jackson	Pool		Dedicated Acreage:
		the subject well by colored p	 				40 Acres
	-				-		
_		ted to the well, outline each	and identify the	e ownership then	reof (both	as to workin	g interest and royalty).
•	one lease of differen	ent ownership is dedicated to	the well, have	the interest of	all owners	been consol	idated by communitization,
unitization, f	force-pooling, etc.?	If answer is "yes" type or	f consolidation	NA			•
	- Irond	d tract descriptions which h		en consolidated	(Ilge reve	ree side of	
this form necess	sary.	-					
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	1	•	i			_	s made by me or under my and that the same is true and
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UNITED STATES THE WITCHIAD

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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

	DEPARTMENT	OF THE IN	AIEKI	IUK	ſ	5. LEASE DESIGNATION	ND BEBIAL NO.
	BUREAU OF L	AND MANAG	EMENT	Γ		LC 029426-B	
APPLIC	ATION FOR PE	RMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK							
	L X	DEEPEN [٦		1	7. UNIT ACREEMENT NA	·¥8
b. TYPE OF WELL	, - (::)	DECI EIV C	_		į	Keel-West Wat	erflood Project
WELL X CAS	OTHER IN-	-FILL WELL	8IN ZON	CLE X MULTIPL	· 🗀	8. FARM OR LEASE NAME, WEL	L NO.
2. NAME OF OPERATOR			P	h.505-677-3223		H.E. West "B'	' No.57
	OCORRO PETROLEU	M COMPANY				9. AM WELL NO.	
3. ADDRESS AND TELEPHONE NO. P	O. Box 37						
I	Loco Hills, New	Mexico 882	5.5			10. FIELD AND POOL, O	B WILDCAT
4. LOCATION OF WELL (Re	port location clearly and i	n accordance wit	h any St	tate requirements.*)		Grayburg-Jack	son Pool
	FWL, Sec.3, T.1	79 R 31E	· .	(Unit N) ·	11. SEC., T., R., M., OR I	
At proposed prod. zone		70., 10.512		(SESW)	,		
	Same			(DEDW)		Sec.3, T.17	S., R.31E.
14. DISTANCE IN MILES A	ND DIBECTION FROM NEAR	EST TOWN OR POS	T OFFICE	•		12. COUNTY OR PARISH	13. STATE
7.4 Air miles	s northeast of I	oco Hills,	New	Mexico		Eddy	N.M.
15. DISTANCE FROM PROPO- LOCATION TO NEAREST			16. NO	. OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L. (Also to nearest drig	INE, FT unit line, if any) 26	525'	19	919.88 Ac.		40	
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	OSED LOCATION®		19. PK	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	s trass, pr. 93	33'±	49	900'	Ro	tary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)				······································	22. APPROX. DATE WO	RK WILL START
3935.3 GL						As Soon As	Possible
23.		PROPOSED CAS	ING ANI	CEMENTING PROGRA	М		
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER F	TOOT	SETTING DEPTH		QUANTITY OF CEME	NT
12-1/4"	8-5/8" J-55	24.0#		560'	460)± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'	1000)± sx Class C	
	I			1 .	1		

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

SIGNED	erry // So	TITI.	E Permit Agent	DATE	12/29/92
(This space for PERMIT NO.	Federal or State office use)		APPROVAL DATE		
Application approva		oplicant holds legal ör equ	altable title to those rights in the subject lease	which would entitle the ap	plicant to conduct operations th

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator			Lease				Well No.
SOC	CORRO PETROLE	UM COMPANY		H. E. WES	т "В"		57
Unit Letter	Section	Township	Range			County	50
N Actual Footage Loc	action of Valle	17 SOUTH		31 EAST	NMPM	<u> </u>	EDDY
4.5	~~	UTH Hne and	2625			the WES	т "
Ground Level Ele			Pool		feet from	the IILS	line Dedicated Acreage:
3935.3	1	rg-San Andres	Grav	burg-Jack	son Po	ol	40 Acres
		the subject well by colore					- C RCICS
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- •	i one lease is dedic le Lease	ated to the well, outline e	ach and identify	the ownership th	ereof (both	as to workin	ng interest and royalty).
3. If more than	one lease of diffe	-	d to the well, ha	we the interest of	all owners	been consol	lidated by communitization.
	force-pooling, etc.			NA			
☐ Yes	∐ No	If answer is "yes" typ			. /		
If answer is n this form neces		nd tract descriptions which	ch have actually	been consolidated	1. (Use reve	erse side of	•
		o the well unit all inter	rests have been	consolidated (b	y commun	itization, u	nitization, forced-pooling,
otherwise) or	until a non-stands	ard unit, eliminating suc	h interest, has	peen approved by	the Divisi	on.	
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	Ì			1		Date	20 1002
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						-	the best of my knowledge and
	İ			1		belief.	
	1			1		Date Surve	yed
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APPROVED BY.

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

	DEPARTMENT	of the in	HERI	UK		ſ	5. LEASE DESIGNATION A	ND SEBIAL NO.
	BUREAU OF L	AND MANAGI	EMENT	Γ			LC 029426-B	
APPLIC	ATION FOR PER	RMIT TO D	RILL	OR DE	EPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE HAMB
la. TYPE OF WORK							<u></u>	
DRIL	LX	DEEPEN [7. UNIT ACREEMENT NA	-
b. TIPE OF WELL							Keel-West Wat	Project
WELL X WEI	L OTHER IN-	FILL WELL	ZON	CLE X	MULTIPLI Zone	. 🗆 🗎	8. FARM OR LEASE NAME, WELL	L NO.
2. NAME OF OPERATOR			P	h.505-6	77-3223		H.E. West "B"	No.58
	OCORRO PETROLEUM	COMPANY					9. AH WELL NO.	
3. ADDRESS AND TELEPHONE NO. P	.O. Box 37							
<u>I</u>	oco Hills, New 1	Mexico 882	55				10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (Rep. At surface	ort location clearly and in	accordance with	h any St	ate requiren	qents.*)		Grayburg-Jack	
- ·	'FWL, Sec.10, T	179 R 3	1 E		Unit C)		11. BEC., T., R., M., OR E AND SURVEY OR AR	SLK.
At proposed prod. zone		.175., 10.5			NENW)			
							Sec.10, T.179	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEARE	ST TOWN OR POS	COFFICE	•			12. COUNTY OR PARISH	13. STATE
	northeast of L	oco Hills,					Eddy	N.M.
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST			16. NO.	. OF ACRES	IN LEASE	17. NO.	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE LI (Also to nearest drig	NE, FT. unit line, if any) 2	6 55 '	19	919.88	Ac.		40	
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	SED LOCATION®		19. PR	OPOSED DEPT	.н	20. ROT	ARY OR CABLE TOOLS	
OR APPLIED FOR, ON THE	B LEASE, FT.	933'±	49	900'		Ro	tary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)						22. APPROX. DATE WO	ORK WILL START
3934.7 GL							As Soon As	Possible
23.)	PROPOSED CAS	ING ANI	CEMENTI	NG PROGRA	M.		
SIZE OF HOLE	ORADE SIZE OF CASINO	WEIGHT PER P	roor	SETTI:	G DEPTH	1	QUANTITY OF CEME	жт
12-1/4"	8-5/8" J-55	24.0#	 	56	0'	460)± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		490	0'	1000	O± sx Class C	
	[1		
	,							
_	drill to about		_					_
-	State approval					-	•	
production	casing to TD,	cemented w	ith s	sufficie	ent cemer	nt to	isolate porous	zones.
Selectivel	y perforate fav	orable Gra	yburç	g zones.	•			
Run 2-7/Q1	tubing to perf	orations =	nd +r	ceat for	rmation v	with 1	5% HCT. Sand-	frac
	and test to tan	•	ind Ci	leat for	.macion v	WICH I	Je nen. Bana.	IIde
Garant to 1			=	m. 1	_			
See attac	ned Drilling Dat	a and Suri	ace (use Pla	<u></u>			

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. $\overline{24}$. Permit Agent DATE 12/31/92 State office use) (This appec APPROVAL DATE _ PERMIT NO. Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

DATE

TITLE.

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

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SO	CORRO PETRO	LEUM COMPANY	Lease	H. E. WES	T "B"		Well No. 58
Unit Letter	Section	Township	Range			County	
С	10	17 SOUTH		31 EAST	имри		EDDY
	ocation of Well:				11001 01	!	
1305	est from the	NORTH line and	2625		feet from	the WES	T line
Ground Level Ele			Pool				Dedicated Acreage:
3934.7	Gray	burg-San Andres	Gray	burg-Jack	son Po	\circ 1	40 Acres
1. Outline the	acreage dedicated	to the subject well by colored	pencil or hach	ure marks on the	plat below.		**************************************
					-		
		dicated to the well, outline ea	ch and identify	the ownership th	sereof (both	as to worki	ng interest and royalty).
Singl	e Lease	fferent ownership is dedicated	to the well, ha	ve the interest o	f all owners	been conso	lidated by communitization.
	force-pooling, et						•
Yes	☐ No	If answer is "yes" type	of consolidation	on ac	NA		
li answer is	no" list of owners	s and tract descriptions which	have actually	been consolidate	d. (Use reve	erse side of	
this form nece	essary.	-			•		
		to the well unit all inter-					nitization, forced-pooling,
otherwise) or		ndard unit, eliminating such	Interest, has i	been approved b	y the Divisi		
				l		OPERA	TOR CERTIFICATION
	Ì	1		İ		I hereby	certify the the information
		d ·		1		ľ	rein is true and complete to the
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				1		I hereby cer	tify that the well location shown
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	ļ			1		i .	eys made by me or under my and that the same is true an
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1 1	į	Į		1		1	nal Surveyor
	! !			1		1	GARY L. JONES
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	l					17	TOPP
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	1			1]	Cetting	NO JOHN WENT. 670
	ii			<u>i</u>		1	RONALD LETOSON 823
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APPROVED BY _

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

5. LEASE DESIGNATION AND BEBIAL NO.

LC 029426-B

	PLICA	AHONF	OH PE	RMIT TO D	HILL	OR DE	EPEN		
a. TYPE OF WORK	DDILL	্বিন		DEEDEN [٦				7. UNIT ACREEMENT NAME
o. Type of well	DRILL	. (<u>X</u>)		DEEPEN [Keel-West Waterflood
OIL Y	CAS		TNI.	מדדד מפרד		CLE X	MULTIPL	• m	8. FARM OR LEASE NAME WELL NO.
WELL A	WELI	٥ ــــــــــــــــــــــــــــــــــــ	THER IN-	FILL WELL	ZON		ZONE		•
					Ъ	h.505-6	77-3223	,	H.E. West "B" No.59
ADDRESS AND THE BOL				M COMPANY					b. An well no.
ADDRESS AND TELEPH								Į.	10. FIELD AND POOL, OR WILDCAT
TOCAMION OF W				Mexico 882		ata manilman	nonts •)		•
At surface	ren (Repo	ort location en	early, and 1	n accordance wit	т чпу ог	ate requiren	тепсв /		Grayburg-Jackson Pool
2625'FSL	, 2625	FWL, S	ec.10,	T.17S., R	.31E.		(Unit I	K)	11. SEC., T., E., M., OE BLK. AND SURVEY OR AREA
At proposed pr	t proposed prod. zone (NESW)								Co. 10 m 17C D 21F
. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.								Sec.10, T.17S., R.31E. 12. COUNTY OR PARISH 13. STATE	
7.25 Alr b. distance fro			st or	Loco Hills				17 10 0	Eddy N.M.
LOCATION TO NEAREST					HIS WELL				
(Also to near	PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 2625' 1919.88 Ac.					40			
S. DISTANCE FRO TO NEAREST	WELL, DRI	LLING, COMPLE	TED,	_	19. PR	OPOSED DEPT	H	20. ROTA	RY OR CABLE TOOLS
							Ro	tary	
1. ELEVATIONS (S	how wheth	er DF, RT, G	R, etc.)						22. APPROX. DATE WORK WILL START
	3910.5 GL							As Soon As Possible	
3.				PROPOSED CAS	ING ANI	CEMENTIN	NG PROGRA	М	
								···	
SIZE OF HO	LE	GRADE SIZE OF	CASING	WEIGHT PER I	T00T	SETTIN	G DEPTH		QUANTITY OF CEMENT
		8-5/8"			700T			460	
12-1/4	· ·	8-5/8"	J-55.	24.0#	700T	56	0'		± sx Class C (Circ)
	· ·				FOOT		0'		
12-1/4	· ·	8-5/8"	J-55.	24.0#	FOOT	56	0'		± sx Class C (Circ)
Propo produ produ Selec Run 2 forma See a	se to cer. ction tively ation a	8-5/8" 5-1/2" drill to State ap casing to perfora tubing to and test and test and test are desired brills.	J-55 J-55 about proval to TD, the favorate fav	24.0# 17.0# 4900' and of the uncemented worable Graorations aks. a and Surf	comportho vith sayburg	lete as dox loc ufficie zones.	an in-fation is nt cemer	1000 fill no spendint to i	± sx Class C (Circ) ± sx Class C on-standard Grayburg ong. Set 5-1/2" solate porous zones.
Propo produ produ Selec Run 2 forma See a	ese to acer. action tively ation a attached by give perting	drill to State ap casing to perfora tubing the and test a	about proval o TD, te fav to tan ng Dat	24.0# 17.0# 4900' and of the uncemented worable Gradorations aks. a and Surf	comportho vith sayburg	lete as dox loc ufficie zones.	an in-i	1000 fill no spendint to i	± sx Class C (Circ) ± sx Class C on-standard Grayburg ong. Set 5-1/2" solate porous zones.
Propo produ produ Selec Run 2 forma See a	ese to acer. action tively ation a attached by give perting	drill to State ap casing to perfora tubing the and test a	about proval o TD, te fav to tan ng Dat	24.0# 17.0# 4900' and of the uncemented worable Gradorations aks. a and Surf	comportho vith sayburg	Jse Plan	an in-fation is nt cemer mation with the comment of	1000 fill no spendint to i	t sx Class C (Circ) t sx Class C on-standard Grayburg ong. Set 5-1/2" solate porous zones. 6% HCL. Sand-frac ed new productive zone. If proposal is to drill on, if any.

TITLE

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	CORRO PETROLE	UM COMPANY	Lease	H. E. WES	T "B"		Well No.
Unit Letter	Section	Township	Range			County	
K	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc							_
2625 fee Ground Level Elev	V 1. VII.	UTH line and	2625 Pool		feet from	the WES	line Dedicated Acreage:
3910.5	1 -	rg-San Andres		ourg-Jack	son Po	വ	1 40
		the subject well by colored					Acres Acres
2. If more than	_	ated to the well, outline each					ng interest and royalty).
	one lease of differ force-pooling, etc.?	ent ownership is dedicated t	o the well, ha	ve the interest of	all owners	been conso	lidated by communitization,
☐ Yes	No □	If answer is "yes" type of	of consolidation	n NA			
	o" list of owners an	id tract descriptions which			l. (Use reve	rse side of	
this form necess	вагу.		· · · · · · · · · · · · · · · · · · ·	- · · · · · · · · · · · · · · · · · · ·			
		the well unit all interest rd unit, eliminating such in					nitization, forced-pooling,
							FOR CERTIFICATION
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	ļ				[JERR	Y/W. LONG
	+					Position	
							it Agent
	ļ		İ			COMPANY	O PETROLEUM CO.
	ļ.		}			Date	O PETROLEUM CO.
	ļ		ļ				er 31, 1992
	. !			• • •	F		
	ļ	3911.5 3914.4				SURVEY	OR CERTIFICATION
	 2625'		·			I hereby cert	ify that the well location shown
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	3						s made by me or under my and that the same is true and
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	ş					belief.	
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	j						EMBER 11, 1992
			+			Signature Profession	& Seal of al Surveyor
		₹. 1	ļ			AL SECTION ASSESSMENT	
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			i				RONALD J. BOSON 8230
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UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

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

5.	LEASE	DESIGNATION	AND	SERIAL	NO.

	BUREAU OF L		LC 029426-B					
APPLIC	ATION FOR PER	RMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE	DE TEIBE NAME	
la. TYPE OF WORK								
DRIL	L 🗓	DEEPEN []			7. UNIT ACREMENT NA	· · · ·	
b. TIPE OF WELL						Keel-West Wat	erflood Project	
OIL X GAS	L OTHER IN-	FILL WELL	SING: ZONE		PLE	8. FARM OR LEASE NAME, WELL NO.		
2. NAME OF OPERATOR			Ph	.505-677-322	3	H.E. West "B" No.60		
S		9. API WELL NO.						
3. ADDRESS AND TELEPHONE NO. P								
L		10. FIELD AND POOL, OF	WILDCAT					
4. LOCATION OF WELL (Rep. At surface		Grayburg-Jack	son Pool					
2625'FNL, 1305	歪)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA						
At proposed prod. zone	-,							
		Sec.10, T.179	S., R.31E.					
14. DISTANCE IN MILES AN	D DIRECTION FROM NEARE	ST TOWN OR POS	r office.			12. COUNTY OR PARISH	13. STATE	
7.0 Air miles	northeast of L	oco Hills,	New 1	Mexico		Eddy	N.M.	
15. DISTANCE FROM PROPUS LOCATION TO NEAREST	ED*		16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE LI. (Also to nearest drig.	NE, FT. unit line, if any) 26	655'	19	19.88 Ac.		40		
13. DISTANCE FROM PROPO	SED LOCATION®			POSED DEPTH	20. ROTA	. ROTARY OB CABLE TOOLS		
TO NEAREST WELL, DR OR APPLIED FOR, ON THIS		933'±	49	001	Ro	tary		
21. ELEVATIONS (Show wheth	ther DF, RT, GR, etc.)	· · · · · · · · · · · · · · · · · · ·				22. APPROX. DATE WO	RE WILL START	
3914.0 GL						As Soon As	Possible	
23.	I	PROPOSED CAS	ING AND	CEMENTING PROGR	АМ			
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER F	T00	SETTING DEPTH		QUANTITY OF CEME	T	
12-1/4"	8-5/8" J-55	24.0#		560'	460	± sx Class C (Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900'	1000)± sx Class C		
	•						•	
[

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

HIGNED TERRY W	LONG Permit Agent	DATE 1/4/93
(This space for Federal or		
PERMIT NO.	APPROVAL DATE	
Application approval does not wart	ant or certify that the applicant holds legal or equitable title to those rights in the subject le	ease which would entitle the applicant to conduct operations t
••	Y: ·	

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	CORRO PETROLE	UM COMPANY	Lease H. E. WEST "B"				Well No.
Unit Letter	Section	Township	Range	· · · · · · · · · · · · · · · · · · ·		County	<u> </u>
Ε	10	17 SOUTH	<u> </u>	31 EAST	МЕРМ	<u> </u>	EDDY
Actual Footage Loc 2625 fee	eation of well: t from the NOF	RTH line and	1305		feet from	the WES	line
Ground Level Elev	Producing For	mation	Pool				Dedicated Acreage:
3914.0	Graybı	urg-San Andres	Gray	burg-Ja	ckson Po	001	40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hach	ire marks on	the plat below.		
Sin	gle Lease	ted to the well, outline each					
	one lease of differ- force-pooling, etc.?	ent ownership is dedicated to	the well, ha	ve the interes	st of all owners	been consol	idated by communitization,
Yes	□ No	If answer is "yes" type o	f consolidation	n a	NA		
		d tract descriptions which b	ave actually	been consolid	lated. (Use reve	rse side of	
this form necess No allowable w		the well unit all interests	s have been	consolidated	d (by commun	itization, u	nitization, forced-pooling.
1		rd unit, eliminating such in					
			"			OPERAT	OR CERTIFICATION
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							ein is true and complete to the owledge and belief.
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	325				•]	Signature	y It Louis
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			1			JERR	Y W. LONG
						Position	
			J		}	Company	it Agent
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			! 			Date	
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1305'							
3	905.0	.9	j			-	fy that the well location shown was plotted from field notes of
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			1		{ {		ind that the sime is true and he best of my knowledge and
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<u> </u>	+	+	+			Professiona	
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ļ	1 		!		.	Certificate	No. JOHN W. WEST 678 RONALD J. EDSON 8239
1.6-	Applied Section 1			456 S. 0 43		1/12	PARTY LODIES TOTT
o 330 660	990 1320 1650	1980 2310 2640 20	00 1500	1000	500 0	3	Estion A F

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

	BUREAU OF	LAND MANAG	EWEN			LC 029426-B			
APPLIC	ATION FOR P	ERMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE	B TRIBE NAME		
TYPE OF WORK									
TYPE OF WELL	LX	DEEPEN [7. UNIT LOPERHENT NA. Keel-West Wat	erflood Project		
WELL X CAS	LL OTHER I	N-FILL WELL	81N ZON	E X ZONE	<u> </u>	8. FARM OR LEASE NAME, WELL	NO.		
NAME OF OPERATOR			P	h.505-677-3223		H.E. West "B"	No.61		
S	OCORRO PETROLE	UM COMPANY				9. API WELL NO.			
ADDRESS AND TELEPHONE NO. T	0.0. Box 37			•					
I	oco Hills, New	Mexico 882	255			10. FIELD AND POOL, OF			
LOCATION OF WELL (Re. At surface	port location clearly and	in accordance wit	in any St	ate requirements.")		Grayburg-Jack			
2625'FNL, 15'	FWL, Sec.10,	T.17S., R.3	31E.	(Unit E)	١	11. SEC., T., R., M., OR B AND SURVEY OR ARI	LK.		
At proposed prod. zone	Same			(SWNW)	,	Coo 10 m 179	תונכם ב		
. DISTANCE IN MILES A	ND DIRECTION FROM NE	REST TOWN OR POS	T OFFICE			Sec.10, T.175			
	es northeast o								
. DISTANCE FROM PROPO		17. NO.	Eddy or acres assigned	N.M.					
PROPERTY OR LEASE L	PROPERTY OR LEASE LINE, FT.					THIS WELL			
(Also to nearest drig		2033		019.88 Ac.	20. BOT	40			
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	HILLING, COMPLETED,	933'±	1	900'					
I. ELEVATIONS (Show whe		933 2	1 4:	900	1 10	tary 22. APPROX. DATE WO	RK WILL START*		
3902.2 GI						As Soon As I	Possible		
3.		PROPOSED CAS	ING AND	CEMENTING PROGRA	м	,			
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER I	root	SETTING DEPTH		QUANTITY OF CEMEN	T		
12-1/4"	8-5/8" J-55	24.0#		560'	460	O± sx Class C (Circ)		
7-7/8"	5-1/2" J-55	17.0#		4900'	1000	Ot sx Class C			
production Selectivel Run 2-7/8' formation	casing to TD, y perforate fa	cemented worable Grant for ations and anks.	vith s Lyburg	ufficient cemer zones. eat formation v	nt to :	ing. Set 5-1/2 isolate porous 5% HCL. Sand-f	zones.		
SIGNED OFER (This space for Fed	RY W. LONG eral or State office use)	utions and measured an	d true verti	ermit Agent	enter progra	b would entitle the applicant to a	93		
COMPLITIONS OF APPROV	AL, I' ANT:					•			
				•		•.			
APPROVED BY		πι	LE			DATE			

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

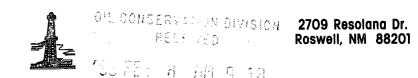
P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

perator SO	CORRO	PETROLE	UM COMPANY		Lease	H. E. W	EST "B"		Well No.	
nit Letter	Sectio	<u> </u>	Township		Range			County	<u> </u>	
E		10	17 SO	UTH		31 EAST	NMPM		EDDY	
tual Footage Lo	ocation o	f Well:								
	eet from		RTH line and		15		feet from	the WES		
ound Level Ele		roducing Fo		,	Pool	-1 T-	-1 5	7	Dedicated Acrea	ge:
3902.2			rg-San Ar		 	/burg-Ja			40	Acres
. Outline the	acreage	iedicated to	the subject well	by colored	pencil or hack	ure marks on	the plat below	•		
2. If more than	n one le	ase is dedica	ated to the well.	outline eac	h and identify	the ownership	thereof (both	as to working	ng interest and ro	valty).
	gle I		_		·					
I. If more that unitization,			-	dedicated	to the well, ha	we the interes	t of all owners	been conso	lidated by commu	nitization,
☐ Yes		∏ No		"ves" type	of consolidati	on	NA			
ll	no" list (L	nd tract descripti	• ••			ated. (Use reve	erse side of		
his form nece			aa aace acsempa	OLIS WILLIAM						
									nitization, force	d-pooling
therwise) or	until a	non-standa	rd unit, elimina	ing such	interest, has	been approved	by the Divisi			
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L		_		L		<u>.</u>		Signature		
						i I		Profession	al Surveyor	
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JERRY W. LONG
CONSULTANT

February 3, 1993

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.62 H.E. West "B" - 2625'FSL, 1335'FEL, Sec. 9, T.17S., R.31E. No.63 H.E. West "B" - 1335'FNL, 2555'FEL, Sec. 9, T.17S., R.31E. No.64 H.E. West "B" - 15'FNL, 2625'FEL, Sec. 9, T.17S., R.31E. No.65 H.E. West "B" - 15'FSL, 1335'FEL, Sec. 3, T.17S., R.31E. No.66 H.E. West "B" - 1230'FNL, 1435'FEL, Sec.10, 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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

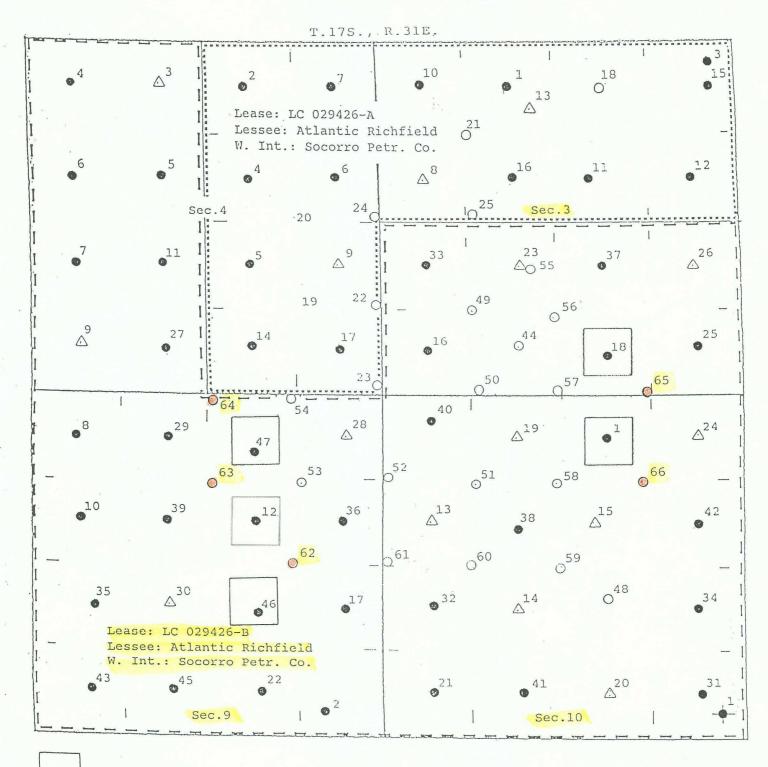
Sincerely yours

Permit Agent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY 410 17th Street, Ste.430 Denver, CO 80202

Attn: Mr. Keeton Barker



Standard Location

O Proposed Location

OWNERSHIP MAP (Grayburg)

SUBMIT IN TRIPLICATE. (Other instructions on

Form approved. Budget Bureau No. 1004-0136

UNITED STATES reverse side) Expires: December 31, 1991 DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND BERIAL NO. BUREAU OF LAND MANAGEMENT

	DOKEAO OF E	THIN MANAG	LMILIAI		\	LC 029426-B		
APPLIC	ATION FOR PE	RMIT TO D	RILL (OR DEEPEN		6. IF INDIAN, ALLOTTED	OR TRIBE NAME	
la. TYPE OF WORK	· · · · · · · · · · · · · · · · · · ·							
	LX	DEEPEN [7			7. UNIT LOBERMENT N.	HH B	
b. TYPE OF WELL	, L	<i>DDE. D.</i> ()	→			Keel-West Wat		
OIL X OAS	OTHER IN-	-FILL WELL	SINGI ZONE	X MULTIPI	LE _	8. FARM OR LEASE NAME, WEL	Project	
2. NAME OF OPERATOR		*	Ph	.505-677-3223				
٤	OCORRO PETROLEU	M COMPANY				9. API WELL NO.		
3. ADDRESS AND TELEPHONE NO. P		H.E. West "B"						
I		10. FIELD AND POOL, O	R WILDCAT					
4. LOCATION OF WELL (Rep. At surface		Grayburg-Jack	kson Pool					
2625'FSL, 133)	11. SEC., T., R., M., OR AND SURVEY OR AS	BLK.					
At proposed prod. zone		Sec.9, T.17S., R.31E.						
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POS	T OFFICE.			12. COUNTY OR PARISH 13. STATE		
6.3 Air mile	s northeast of	Loco Hills	, New	Mexico		Eddy	N.M.	
15. DISTANCE FROM PROPOSED LOCATION TO NEAREST			16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE LY (Also to nearest drig	NE. FT.	2625'	191	19.88 Ac.		40		
18. DISTANCE FROM PROPO	SED LOCATION*		19. Риог	OSED DEPTH	20. ROTA	RY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	B LEASE, FT.	933¹±	490	001	Ro	Rotary		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE W	ORK WILL START	
3890.2 GL						As Soon As	Possible	
23.		PROPOSED CAS	ING AND	CEMENTING PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER I	FOOT	SETTING DEPTH		QUANTITY OF CEME	NT	
12-1/4"	8-5/8" J-55	24.0#		560'	460	± sx Class C (Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900'	1000	± sx Class C		

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

SIGNED HERRY W. LONG	Permit Agent	DATE1/11/93
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that th	ne applicant holds legal or equitable title to those rights in the subject lear	use which would entitle the applicant to conduct opera

× 7

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator SO	CORRO PETROL	EUM COMPANY	Lease	H. E. WEST "B"	Mell No. 62
Unit Letter	Section	Township	Range		County
J	9	17 SOUTH		31 EAST NIMPM	EDDY
Actual Footage Lo	ocation of Well:	***		· 100	
2625 fe	eet from the SC	OUTH line and	1335	feet from	n the EAST line
Ground Level Ele	_		Pool	- 1	Dedicated Acreage:
3890.2	Grayb	urg-San Andı	ces Grayb	ourg-Jackson P	ool 40 Acres
1. Outline the	acreage dedicated to	the subject well by c	olored pencil or hachu	re marks on the plat belo	π .
	n one lease is dedic Le Lease	cated to the well, outli	ne each and identify	the ownership thereof (bot	h as to working interest and royalty).
·		erent ownership is dedi	cated to the well, hav	e the interest of all owner	rs been consolidated by communitization,
unitization,	force-pooling, etc.			NT7	
Yes Yes	∐ No	If answer is "yes"	type of consolidation	n <u>NA</u>	
this form nece	essary.			peen consolidated. (Use re	
				consolidated (by commu	initization, unitization, forced-pooling, sion.
					OPERATOR CERTIFICATION
İ					I hereby certify the the information
	i		Į.		contained herein is true and complete to the
	i				best of my knowledge and belief.
	.		1		Signature
	l I				terne / Jone
	ļ		į	:	Printed Name
	İ		ĺ		JERRY W. LONG
			·		Position
1			. !		Permit Agent
	Ì		!		Company
1	• •	-		· [SOCORRO PETROLEUM CO.
1	1 1				Date
,	1				1/11/93
	į.		70000	70000	
			3888.2	- 13889.8	SURVEYOR CERTIFICATION
 				1335'	I hereby certify that the well location shown
			3885.4	3885.2	on this plat was plotted from field notes of
	1	3			actual surveys made by me or under my
	i	. 🖣			supervison, and that the same is true and correct to the best of my knowledge and
					belief.
[1	,			Data Supravad
}	l ·			2 00	Date Surveyed DECEMBER 11, 1992
		9 4			Signature & Seal of
 		— — — — 			Professional Surveyor
	· 1 .		25.	· · ·	A CONTRACTOR OF THE PROPERTY O
	1		262,		1 10 10 10 10 10 10 10 10 10 10 10 10 10
	i		Î		LEW MET
	i				V A Call
	i i				Marian II
1	• 1	ļ	Ţ.		A JOSH X NOTE
1.	Į				Certificate No. JON W. WEST 676
Per cases	120612728	- I			RONALD JEDSON 8239
0 330 66	0 000 1320 10	0 1080 2210 0010	2000 1500	1000	OFFICIONAL DOES, 7977
0 330 66	30	0 1980 2310 2640	2000 1500	1000 500 0	92 7 10 10

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

	BUREAU OF L		LC 029426-B						
APPLIC	ATION FOR PE	RMIT TO D	RILL	OR DE	EPEN		6. IF INDIAN, ALLOTTEE	E TRIBE NAME	
la. TYPE OF WORK									
	L X	DEEPEN [7				7. JUNIT LOBERMENT NAI		
b. TYPE OF WELL	:		_		Actit myny y		Keel-West Wate	Project_	
WELL X WE	LL OTHER IN-	FILL WELL	ZON	r LA	ZONE		8. FARM OR LEASE NAME, WELL	но.	
			Pl	n.505-6	77-3223				
	OCORRO PETROLEUI	M COMPANY					9. AM WELL NO.		
3. ADDRESS AND TELEPHONE NO. T	O. Box 37						H.E. West "B"		
I	Loco Hills, New 1	Mexico 882	5.5				10. FIELD AND POOL, OR	WILDCAT	
4. LOCATION OF WELL (Re. At surface	port location clearly and in	accordance with	h any Sta	ite requirem	ents.*)	·	Grayburg-Jack		
1335'FNL, 2555	11. SEC., T., R., M., OR BI AND SURVEY OR ARE	∍ K. ;▲							
At proposed prod. zone		Sec.9, T.17S.	, R.31E.						
14. DISTANCE IN MILES A	12. COUNTY OR PARISH	13. BTATE							
6.1 Air miles	s northeast of L	oco Hills,	New	Mexico			Eddy	N.M.	
15. DISTANCE FROM PROPO			16. NO.	OF ACRES I	N LEASE		OF ACRES ASSIGNED		
LOCATION TO NEAREST PROPERTY OR LEASE L. (Also to nearest drig	INE, FT.	1335'	19	19.88 A	.c.	TO THIS WELL 40			
18. DISTANCE FROM PROPE	OSED LOCATION*		19. PRO	POSED DEPT	н	20. ROTA	ARY OR CABLE TOOLS		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING, COMPLETED, 8 LEASE, FT.	900 ' ±	49	00'		RO	tary		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)		1 10			1.0	22. APPROX. DATE WOL	EK WILL START*	
3890.8 GL							As Soon As I	ossible	
23.		PROPOSED CAS	ING AND	CEMENTIN	G PROGRAM	A			
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER F	тоот	SETTIN	G DEPTH		QUANTITY OF CEMEN	T	
12-1/4"	8-5/8" J-55	24.0#		560)'	460)± sx Class C (0	Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900) '	1000)± sx Class C		
		· •	'			•			
Propose to	drill to about	4900' and	comp:	lete as	an in-f	ill no	on-standard Gra	yburg	
_	State approval		_						
_	casing to TD,					_	=		
_	y perforate fav						rootage poreas		
D. 2 7 7 10 1			ـ هــ	E		المالداد	ta not cara e	N 5 0	
	' tubing to perf		na tr	eat IOP	mation v	vith 1:	of HCL. Sand-I	Lac	
iormation	and test to tan	KS.							
See attacl	ned <u>Drilling Dat</u>	a and Surf	ace U	se Plan	·			•	
		*							

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. 24. SIGNED (This space for Federal or State office use) APPROVAL DATE _ PERMIT NO. Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY: APPROVED BY _ - TITLE -DATE

Form C-102 Revised 1-1-89

OII

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION
P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088

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

All Distances must be from the outer boundaries of the section

WELL LOCATION AND ACREAGE DEDICATION PLAT

Onerston			T	Lease			· · · · · · · · · · · · · · · · · · ·	Well No.
Operator SOC(ORRO PETROLE	UM COMPANY		TERRE	H. E. WES	•	63	
	Section	Township		Range	71 EAST		County	EDDY
G Actual Footage Loca	fion of Well:	17 SOUT	н		31 EAST	NMPM	<u> </u>	EDDY
		RTH line and		2555		feet from	the EAS	line
Ground Level Elev.				Pool				Dedicated Acreage:
3890.8	Grayb	urg-San And	dres	Gra	yburg-Jac	kson F	Pool	40 Acres
1. Outline the ac	reage dedicated to	the subject well by	colored pe	encil or bach	ure marks on the	e plat below		
Single	Lease				_			g interest and royalty).
	one lease of diffe orce-pooling, etc.:	-	arcared to	rue well' ba		-	s neen consol	idated by communitization,
Yes Yes	☐ No	If answer is "ye	es" type of	consolidation	<u>a</u>	IA		
If answer is "no" this form necesses		nd tract description	s which h	ave actually	been consolidate	d. (Use revo	erse side of	
No allowable wi	ll be assigned t	o the well unit all ard unit, eliminatin				-		nitization, forced-pooling
		- TI						FOR CERTIFICATION
		-1335)				contained her	eby certify the the information win is true and complete to the convoledge and belief.
	-	3888.5		<u> </u>	2555' 		Printed Name of Services Permi	1
							Date	RO PETROLEUM CO
	Ì						SURVEY	OR CERTIFICATION
			*********	**********			on this plat actual survey supervison,	ify that the well location shown was plotted from field notes o is made by me or under m and that the same is true ar the best of my knowledge an
	+			. — — — ,	 - -		Signature	EMBER 10, 1992
					 		Cetterare	GARY L. JONES
0 330 660	990 1320 165	0 1980 2310 2640) 20	000 1500	1000 50		N. E.	GASHONALLY 878

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UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

5. LEASE DESIGNATION AND MERIAL NO. BUREAU OF LAND MANAGEMENT LC 029426-B 6. IF INDIAN. ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7 JUNIT ACRETATION NAME DRILL X DEEPEN [7] Keel-West Waterflood b. TYPE OF WELL Project BINOLE X WELL X MULTIPLE 8. FARM OR LEASE HAME WELL NO. OTHER IN-FILL WELL ZONE 2. NAME OF OPERATOR Ph.505-677-3223 9. API WELL NO. SOCORRO PETROLEUM COMPANY 3. ADDRESS AND TELEPHONE NO. P.O. BOX 37 H.E. West "B" No.64 10. FIELD AND POOL, OR WILDCAT Loco Hills, New Mexico 88255 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Grayburg-Jackson Pool At surface 11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 15'FNL, 2625'FEL, Sec.9, T.17S., R.31E. (Unit B) At proposed prod. zone (NWNE) Same Sec.9, T.17S., R.31E. 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE 6.3 Air miles northeast of Loco Hills, New Mexico N.M. Eddy 10. DISTANCE FROM PROPOSED 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) TO THIS WELL 15' 40 1919.88 Ac. 18. DISTANCE FROM PROPOSED LOCATION 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933**'**± 4900' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22 APPROX DATE WORK WILL STARTS 3904.3 GL As Soon As Possible PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE ORADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 12-1/4" 8-5/8" 24.0# 560' 460± sx Class C (Circ) J-55 7-7/8" 5-1/2" 17.0# 49001 J-55 1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

SIGNED JERRY LONG	Permit Agent	DATE1/14/93
(This space for Federal or State office use)		
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that the applicant holds	s legal or equitable title to those rights in the subject lease w	hich would entitle the applicant to conduct operations t
CONDITIONS OF APPROVAL, IF ANY:		
CONDITIONS OF APPROVAL, IF ANY:		

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

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

.

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

All Distances must be from the outer boundaries of the section

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	ORRO PETRO	DLEUM COMPANY		ease	H. E. WE	EST "B"		Well No.
Unit Letter	Section	Township	R	Range			County	
В	9	17 SO	UTH	-	31 EAST	имри		EDDY
Actual Footage Loc							.1	
15	t from the	NORTH line and		2625		feet from	the EAS	ST _{line}
Ground Level Elev	· · · · · · · · · · · · · · · · · · ·	Formation .		Pool		1222	uic	Dedicated Acreage:
3904.3	Gray	yburg-San A	ndres	Gray	burg-Jac	kson Po	ool	40 Acres
		to the subject well						1
2. If more than Single 3. If more than	one lease is de e Lease	edicated to the well,	outline each a	nd identify	the ownership	thereof (both	as to work	ing interest and royalty).
Yes	ои П ои П		"yes" type of	consolidatio	n NA			
"								
If answer is no this form necess		s and tract descripti	ions which hav	re actuany	been consolida	ted. (Use reve	erse side or	
		i to the well unit	all interests	have been	consolidated	(by commun	itization, 1	unitization, forced-pooling,
1	-	ndard unit, eliminat						• -
					<i>p</i>		OPERA	TOR CERTIFICATION
	1	15			2625'			
	!	10	1	ļ	Ē			rreby certify the the information erein is true and complete to the
	l	<u>:</u> '		1	•	1.1		erein is true and complete to the knowledge and belief.
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	i	!		! !	ı		Company	it Agent
		!		į.	ı			RO PETROLEUM CO.
	ļ	!	j	ļ		1 }	Date	O PEINOLIDOR CO.
	1	!			ı	1 1		14/93
	i	,	ļ			}	<u> </u>	14/93
	i	1		i	ı		SURVE	YOR CERTIFICATION
	1	!		i I	ı	1.1	9	
							I hereby cer	tify that the well location shown
	. [1	1	Į.		11	-	was plotted from field notes of
	1	1				!		tys made by me or under my
	1	!	ļ					and that the same is true and the best of my knowledge an
	•	!		; 			belief.	
	1	!		1			7 . 0	
	ļ	1		l		1.1	Date Surv	•
	1	,						CEMBER 10, 1992
	+-	. — — — —	<u> </u>					& Seal of nal Surveyor
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	:	I		1			Salar Comment	ARY L. JONES
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222 660	000 1700 1	222 1222 2212 22	2000	1. TV 10.	the sample property	1	- () (~ ? · · · · · · · · · · · · · · · · · ·	1 6 3 51 1 M MC
0 330 660	990 1320 10	650 1980 2310 26	40 2000	1500	1000 5	00 0	1	92-11-1879

APPROVED BY _

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

	DEPARIMENT	•				ĺ	5. LEASE DESIGNAT	ION AND BERL	AL NO.		
	BUREAU OF L	AND MANAG	EMENT	<u> </u>			LC 029426-B				
APPLIC	CATION FOR PE	RMIT TO D	RILL	OR DE	EPEN		6. IF INDIAN, ALLOT	TEE OR TRIBE	NAMB		
TYPE OF WORK											
DRIL TYPE OF WELL	L X	DEEPEN [ĺ	7. WMIT ACRESAND		ood		
DIL 🔯 OA	S OTHER IN-	-FILL WELL	SIN	GLE X	MULTIPLI ZONE		8. FARM OR LEASE NAME	Pro	oject		
NAME OF OPERATOR	OTALE 211			h.505-6			H.E. West '	"B" No.6	55		
5	SOCORRO PETROLEU	M COMPANY	-		, , , , , , , , , , , , , , , , , , , ,		9. AR WELL NO.				
DORESS AND TELEPHONE NO.	P.O. Box 37										
]	Loco Hills, New	Mexico 882	255				10. FIELD AND POO	ol, OR WILDC.	AT		
COCATION OF WELL (Re At surface	port location clearly and i	n accordance wit	th any St	ate requirem	ents.*)		Grayburg-J		2001		
	FEL, Sec.3, T.	17S., R.31	E.		•	it 0)	11. SHC., T., E., M., AND SURVEY O	OR BLK.			
At proposed prod. zone	^e Same				(SW	SE)	Sec.3, T.	17S., R.	31E.		
DISTANCE IN MILES A	ND DIRECTION FROM NEARI	ST TOWN OR POS	T OFFICE	•			12. COUNTY OR PA				
7.5 Air miles	northeast of Lo	oco Hills.	New :	Mexico			Eddy	,	N.M.		
DISTANCE FROM PROPULOCATION TO NEAREST	SED*			OF ACRES I	N LEASE		OF ACRES ASSIGNED HIS WELL				
PROPERTY OR LEASE L	INE, FT.	335'	19	919.88 A	.c.	TOT	40				
. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION*			OPOSED DEPT		20. ROTA	RY OR CABLE TOOLS				
OR APPLIED FOR, ON TH	IS LEASE, FT.	933 ' ±	49	900'		Ro	tary				
•	ether DF, RT, GR, etc.)						22. APPROX. DAT				
3943.1' GL							As Soon A	As Possi	ble		
•		PROPOSED CAS	ING AND	CEMENTIN	G PROGRAM	1					
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER I	700T		DEPTH		QUANTITY OF C				
12-1/4"	8-5/8" J-55	24.0#		560		· · · · · ·	60± sx Class C (Circ)				
7-7/8"	5-1/2" J-55	17.0#	*	4900)'	1000	<u>t sx Class (</u>	<u> </u>			
producer. production Selective Run 2-7/8' formation See attach	b drill to about State approval casing to TD, ly perforate fav tubing to perf and test to tan hed Drilling Dat	of the uncemented worable Graorations aks. a and Surf	ortho with s yburg and tr	dox loca ufficien zones. eat form see Plan	ation is nt cemen mation w	pendit to i	ing. Set 5- isolate poro 8 HCL. San	1/2" us zones d-frac			
eepen directionally, give per	rtinent data on subsurface location	in and measured and	u true Verti	- Civ	e promont breve	enter program	m, ii any.	<u></u>			
SIGNED TER	rry // XC	-ug	riti.e Pe	ermit Ag	ent	 	DATE	1/19/93	,		
(This space for Fed	deral of State office use)			APPROVAL D	ATE						
	s not warrant or certify that the ag	oplicant holds legal or	r equitable			t lease which	n would entitle the applica	unt to conduct op	xeration		

_ DATE _

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I

BOX 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT III

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOCORRO PETROLEUM COMPANY	Lease H.E. WEST "B"	Well No.
Unit Letter Section Township	Range	County
□ 0 3 17 SOUTH	31 EAST NMPM	EDDY
Palai Footage Location of Well:	100.00	
15 feet from the SOUTH line and	1335 feet from	the EAST line
Ground Level Elev. Producing Formation	Pool	Dedicated Acreage:
3943.1' Grayburg-San Andres	Grayburg-Jackson Pool	40 Acres
1. Outline the acreage dedicated to the subject well by colored	<u> </u>	
1. Others the actuals actioned to the subject with an estated i	one or account make on the piet 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).
Single Lease		
3. If more than one lease of different ownership is dedicated t unitization, force-pooling, etc.?	the well, have the interest of all owners	been consolidated by communitization,
Yes No If answer is "yes" type	f consolidation NA	
If answer is "no" list of owners and tract descriptions which		
this form necessary.	save actually been consolidated. (Ose reve	erse side of
No allowable will be assigned to the well unit all interest	s have been consolidated (by commun	itization, unitization, forced-pooling,
otherwise) or until a non-standard unit, eliminating such in	sterest, has been approved by the Division	on.
		OPERATOR CERTIFICATION
	i	I hamber consists the the independent
		I hereby certify the the information contained herein is true and complete to the
		best of my knowledge and belief.
	1 1	Signature
	1 [[Street 11. Vonag
	i	Printed Name
		JERRY W. LONG
		Position
	1.	Permit Agent
	.]	Company
		SOCORRO PETROLEUM COMPANY
	i	Date
	;	1/19/93
		SURVEYOR CERTIFICATION
	!	SURVETOR CERTIFICATION
		I hereby certify that the well location shown
		on this plat was plotted from field notes of
	1	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.
	-	D.A. G.
3942.0' , 3953.8'	! ! ! !	Date Surveyed
	1	DECEMBER 31, 1992
1 - 1 - 1 - 1 - 1 - 1 - 1		Signature & Seal of Professional Surveyor
	į.	
3949.4' 3944.4'		24
		J S. S. Marsh
		a) soul & Log. It.
		7977
	/	Certificate No. JOHN W. WESTO 878
	1335	Certificate No. JOHN W. WEST 1878 RONALD J. EIGEON 19239 CARY LJONES 7977
A STATE OF THE STA		CARY L JONES 7877
0 330 660 990 1320 1650 1980 2310 2640 2	000 1000 500 0	92-100-2041
		The state of the s

UNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	5. LEASE DESIGNATION AND SERIAL NO
BUREAU OF LAND MANAGEMENT	1 TO 020426 D
	LC 029426-B
APPLICATION FOR PERMIT TO DRILL OR DEEL	6. IF INDIAN, ALLOTTEE OR TRIBE NAM
A. TYPE OF WORK	
DRILL 🗵 DEEPEN 🗌	7. UNIT ACREEMENT NAME
D. TYPE OF WELL	Keel-West Waterflood
WELL X CAS WELL OTHER IN-FILL WELL SINGLE X	MULTIPLE S. FARM OR LEASE NAME, WELL NO.
NAME OF OPERATOR Ph. 505-677	-3223 H.E. West "B" No.66
SOCORRO PETROLEUM COMPANY	9. AM WELL NO.
ADDRESS AND TELEPHONE NO. P.O. BOX 37	
Loco Hills, New Mexico 88255	10. FIELD AND POOL, OR WILDCAT
LOCATION OF WELL (Report location clearly and in accordance with any State requiremen At surface	Grayburg-Jackson Pool
1230'FNL, 1435'FEL, Sec.10, T.17S., R.31E.	(Unit B) 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	(NWNE)
Same	Sec.10, T.17S., R.31E
DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE.	12. COUNTY OR PARISH 13. STATE
7.4 Air miles northeast of Loco Hills, New Mexico	Eddy N.M
O. DISTANCE FROM PROPUSED* LOCATION TO NEAREST	LEASE 17. NO. OF ACRES ASSIGNED
PROPERTY OR LEASE LINE, FT.	TO THIS WELL 40
8. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH	20. ROTABY OR CABLE TOOLS
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'± 4900'	Rotary
1. ELEVATIONS (Show whether DF, RT, GR, etc.)	22. APPROX. DATE WORK WILL STA
3930.2' GL	As Soon As Possible
3. PROPOSED CASING AND CEMENTING	
SIZE OF HOLE GRADE SIZE OF CASING WEIGHT PER FOOT SETTING D	EPTH QUANTITY OF CEMENT
12-1/4" 8-5/8" J-55 24.0# 560'	460± sx Class C (Circ)
7-7/8" 5-1/2" J-55 17.0# 4900'	1000± sx Class C
· · · · · · · · · · · · · · · · · · ·	
Propose to drill to about 4900' and complete as a	n in-fill non-standard Grayburg
producer. State approval of the unorthodox locat	ion is pending. Set 5-1/2"
production casing to TD, cemented with sufficient	
Selectively perforate favorable Grayburg zones.	-
Run 2-7/8" tubing to perforations and treat forma	tion with 15% HCL. Sand-frac

formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

SIGNED TE	CARY WATONG	TITLE Permit Agen	it DATE_	1/19/93
(This space for For	ederal or State office use)	APPROVAL DATY	Е	
	and not unmost or certify that the	applicant holds legal or equitable title to those rights in	in the subject lease which would entitle the app	licant to conduct operations the
Application approval do CONDITIONS OF APPRO	•			
••	•			

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I P.O. Box 1980, Hobbs, NM 68240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator SOC	ORRO PETROLE	UM COMPANY	Lease	H.E. WEST	"B"		Well No. 66
Unit Letter	Section	Township	Range	· · · · · · · · · · · · · · · · · · ·		County	
В	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc	ation of Well:						
1230 fee	t from the NO	RTH line and	1435		feet from	the EAS	line
Ground Level Elev	Producing For	rmation	Pool				Dedicated Acreage:
3930.2'	Graybur	g-San Andres	Grayb	urg-Jackson	Pool		40 Acres
1. Outline the a	creage dedicated to	the subject well by colored p	encil or bach	ure marks on the p	plat below.		
Single 3. If more than unitization, f Yes If answer is no this form necess	Lease one lease of differ force-pooling, etc.? No list of owners ar	ent ownership is dedicated to If answer is "yes" type of tract descriptions which is	o the well, ha	on NA	all owners	been consol	idated by communitization,
		the well unit all interest rd unit, eliminating such in					nuzation, forced-pooling.
			1230	3932.4'		OPERAT I here contained her best of my km Signature Printed Nan JERRY Position Permi Company SOCORRO Date 1/19 SURVEY I hereby certification survey supervisors to the belief. Date Survey JAN Signature & Professions	DETROLEUM COMPANY OP 93 OR CERTIFICATION The that the well location shown was plotted from field notes of a made by me or under my and that the same is true and he best of my knowledge and yed UARY 4, 1993 k Seal of
40.00	19,79,0	(4/2) (A) (A)		of the World of the	二十		CARY L JOMES 7077
0 330 660	990 1320 1650	1980 2310 2640 20	1500	1000 500	o l		92-(10-2042
							The same of the sa



JERRY W. LONG
CONSULTANT

February 6, 1993

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.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E. No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E. No.71 H.E. West "B" - 1335'FSL, 15'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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

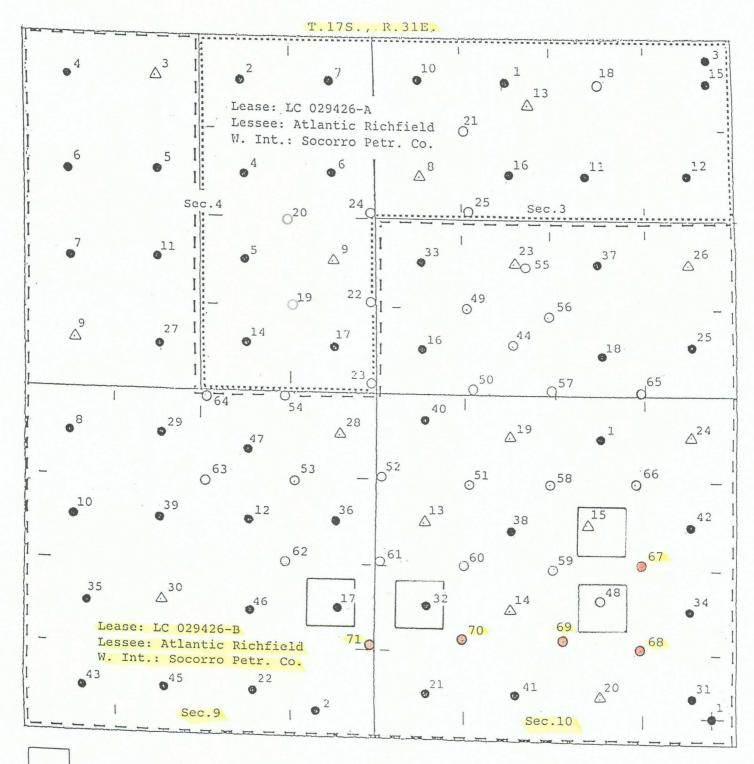
| |

Permit Agent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY 410 17th Street, Ste.430 Denver, CO 80202

Attn: Mr. Keeton Barker



Standard Location

O Proposed Location

OWNERSHIP MAP (Grayburg)

. 14. UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other Instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

	BUREAU OF L	AND MANAGE	FMFNT				5. LEASE DESIGNATION AND STRIAL NO.		
4 D D 1 16							LC 029426-B 6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
	ATION FOR PE	RMII IOD	RILL (JK DEE	PEN				
DRIL b. TYPE OF WELL	LX	DEEPEN [-	7. UNIT ACREEMENT NA Keel-West Wat	-	
OIL X OAS	OTHER IN-	-FILL WELL	SINGI ZONE	x X	MULTIPLI ZONE	· 🖂 🖯	8. FARM OR LEASE NAME, WEL	Project	
2. NAME OF OPERATOR		·· · · · · · · · · · · · · · · · · · ·	Ph	.505-67	7-3223		H.E. West "B"	No.67	
S	OCORRO PETROLEU	M COMPANY				-	9. AM WELL NO.		
3. ADDRESS AND TELEPHONE NO. P	O. Box 37								
I	1	10. FIELD AND POOL, OR WILDCAT							
4. LOCATION OF WELL (Re		Grayburg-Jack	son Pool						
2625'FNL, 133	tG)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA							
At proposed prod. zone	E)	Sec.10, T.17S., R.31E.							
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE.				12. COUNTY OR PARISH	13. STATE	
7.3 Air miles	northeast of L	oco Hills,	New Me	exico			Eddy	N.M.	
15. DISTANCE FROM PROPO- LOCATION TO NEAREST			16. NO. 0	OF ACRES IN	LEASE		F ACRES ASSIGNED IS WELL		
PROPERTY OR LEASE LI (Also to nearest drlg	(NE, FT. . unit line, if any)	1335'	191	.9.88 Ac	: .		40		
18. DISTANCE FROM PROPO TO NEAREST WELL, DR			19. PROP	OSED DEPTH		20. ROTAL	Y OR CABLE TOOLS		
OR APPLIED FOR, ON THE	S LEASE, PT.	933'±	490	0'		Rot	ary		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)						22. APPROX. DATE WO	RK WILL START	
3915.3' GL							As Soon As	Possible	
23.		PROPOSED CASI	NG AND (EMENTING	PROGRAM	1			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	007	SETTING I	DEPTH		QUANTITY OF CEME	YT	
12-1/4"	8-5/8" J-55	24.0#		560'		460:	t sx Class C (Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900'	I	1000	sx Class C		
	,				,				

2.2

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

See attached Drilling Data and Surface Use Plan.

SIGNED TERRY M	M. Zoug	TITLE Permit Agent	DATE	1/19/93
(This space for Federal or S		APPROVAL DATE		
Application approval does not warran		legal or equitable title to those rights in the subject lease	which would entitle the app	licant to conduct operations th

14

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION P.O. Box 2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Santa Fe, New Mexico 87504-2088

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

SOCORRO PETROLEUM COMPANY H.E. WEST "B" 67 Unit Letter Section Township Range County G 10 17 SOUTH 31 EAST NMPM EDDY Lettual Footage Location of Well: 2625 feet from the NORTH line and 1335 feet from the EAST line	<u>.</u>	· · · · · · · · · · · · · · · · · · ·	- Air Distui	1000 111000 00	. Hom the out			-	
C 10 17 SOUTH 31 EAST NORM EDDY 2625 feet from the NORTH ine and 1335 feet from the EAST the strong the strong formation and the strong formation					Lease	H.E. W		Well No. 67	
tectual Footage Location of Well: 2625 fact from the NORTH line and Pool Pool Pool Dedicated Acreage: 3915.3' Grayburg—San Andres Grayburg—Jackson Pool Dedicated Acreage: 3915.3' Grayburg—San Andres Grayburg—Jackson Pool 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). Single Lease 3. If more thin one feare of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force—pooling, etc.? Yes No Ilst of owners and tract descriptions which have actually 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 have by corrity the the suffermation contained by many society of my knowledge and shirts. Signature Signature 1335 3908.9' 3919.7' 3920.8' Signature & Seal of Date Surveyed JANUARY 4, 1992 Signature & Seal of	Unit Letter Sect		-		Range	·····		County	
Producing Formation Fronducing Formation Foot grayburg—San Andres Foot Grayburg—Jackson Pool Foot 40 Acres 1. Outline the acresge dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lesse is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). Single Lease 3. If more than one lesses of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, force—pooling, etc.? Yes \(\sqrt{No}\) No. If answer is 'yes' type of consolidation If answer is 'no' list of owners and tract descriptions which have actually been consolidated (by communitization, unitization, incred—pooling, otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. April A	-		17 SOL	ЛН		31 EAST	NMPM		EDDY
Froducing Formation 3915.3' Froducing Formation Grayburg—San Andres 1. Outline the acreage dedicated to the subject well by colored pencil or hackure marks on the plat below. 2. If more than one lease is dedicated to the well, cutiline each and identify the ownership thereof (both as to working interest and royalty). Single Lease 3. If more than one lease is dedicated to the well, cutiline each and identify the ownership thereof (both as to working interest and royalty). If answer is "oo" 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 Award in tirus and complete to the best of my invocitings and being. Signature Final Name January Socorro PetroLeum Company Socorro PetroLeum Company Socorro PetroLeum Company Socorro PetroLeum Company Socorro PetroLeum Company Socorro PetroLeum Company Januar	2605	MOI	RTH line and		1335		feet from	the EAS	line.
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Signature Signature Frinced Name FERRY W. LONG Bosition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 supervisors and that the same is true and correct to the best of my knowledge and beilef. Date Surveyed JANUARY 4, 1992 Signature & Seal of		1				l 			• • • • • • • • • • • • • • • • • • • •
Printed Name JERRY W. LONG Bésition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field roles of actual surveys made by me or under m supervisors and that the same is true and correct to the best of my knowledge and beiles. Date Surveyed JANUARY 4, 1992 Signature & Seal of		1	j					best of my kn	owledge and belief.
Printed Name JERRY W. LONG Bésition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field roles of actual surveys made by me or under m supervisors and that the same is true and correct to the best of my knowledge and beiles. Date Surveyed JANUARY 4, 1992 Signature & Seal of					i			·	
Jerry J. Long Bosition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 on beiles. Date Surveyed JANUARY 4, 1992 Signature & Seal of					j			Signature	://~~~
Jerry J. Long Bosition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 on beiles. Date Surveyed JANUARY 4, 1992 Signature & Seal of		1						XUS	4/1. Mug
Besition Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 JANUARY 4, 1992 Signature & Seal of		i			ĺ	ļ	1 1	Printed Nam	ne/ /
Permit Agent Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 JANUARY 4, 1992 Signature & Scal of	<u> </u>					S			W. LONG
Company SOCORRO PETROLEUM COMPANY Date 1/19/93 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 JANUARY 4, 1992 Signature & Scal of						}			/
SOCORRO PETROLEUM COMPANY Date 1/19/93 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 supervisors and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of		l l	. 3						Agent
Date 1/19/93 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 supervisors and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of		1							
3917.9' 3920.8' 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 certect to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Seal of		I							PETROLEUM COMPANY
3917.9' 3920.8' 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 JANUARY 4, 1992 Signature & Scal of		1				Ė			(10/02
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 supervisor, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of		i	2					Τ/	19/93
3906.9' 3919.7' 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 supervisor, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of		i			3917.9′	3920.8'	1 [SURVEY	OR CERTIFICATION
3906.9' 3919.7' January Supervisor, and that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervisor, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of		1			· · · · .	1 7	35,		
actual surveys made by me or under my supervisor, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of				*****		1 .	35	I hereby certi	fy that the well location shown
Supervisors and that the same is true and correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of					3906.9	5919.7°			
correct to the best of my knowledge and belief. Date Surveyed JANUARY 4, 1992 Signature & Scal of								-	•
Date Surveyed JANUARY 4, 1992 Signature & Scal of		1			!			•	
JANUARY 4, 1992 Signature & Seal of		i				1			
JANUARY 4, 1992 Signature & Seal of		1			•	•		Data Surva	wad
Signature & Scal of		i t			,	l I			
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The state of the s	<u></u>						1	*	War Connell College

SUBMIT IN TRIPLICATE.

Form approved.
Budget Bureau No. 1004-0136
Expires: December 31, 1991 (Other instructions on reverse side) HNITED STATES

			DOTALLS				•,	Expires: December 31, 1991
	DEPART	MENT	OF THE IN	HERI	OR			5. LEASE DESIGNATION AND SERIAL NO.
	BURE	AU OF L	AND MANAG	EMENT	•			LC 029426-B
APPI IC	ATION F	OR PE	RMIT TO D	RILL	OR DE	EPEN		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
a. TYPE OF WORK	74110111	<u> </u>						
	L X		DEEPEN []				7. UNIT ACREMENT NAME
b. TYPE OF WELL								Keel-West Waterflood Project
OIL X OAS	LL O	THER IN-	FILL WELL	ZON	E X	MULTIPL ZONE		8. FARM OR LEASE NAME, WELL NO.
. NAME OF OPERATOR				P	h.505-67	77-3223		H.E. West "B" No.68
			M COMPANY					9. AM WELL NO.
. ADDRESS AND TELEPHONE NO. E	0.0. Box 3	37						
			Mexico 882				·	10. FIELD AND POOL, OR WILDCAT
. LOCATION OF WELL (Re At surface	port location cl	early and in	n accordance with	n any St	ate requirem	ents.*)		Grayburg-Jackson Pool
1335'FSL, 133	5'FEL, S	ec.10,	T.17S., R	.31E.		(Unit	J)	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zone	Same					(NWSE)		Sec.10, T.17S., R.31E.
4. DISTANCE IN MILES A	ND DIBECTION F	HOM NEARE	ST TOWN OR POST	OFFICE	•			12. COUNTY OR PARISH 13. STATE
7.3 Air miles	northeas	t of Lo	oco Hills,	New 1	Mexico			Eddy N.M.
16. DISTANCE FROM PROPO- LOCATION TO NEAREST			1	16. NO.	OF ACRES I	LEASE		OF ACRES ASSIGNED THIS WELL
PROPERTY OR LEASE L. (Also to nearest drig	NE, FT. Cunit line, if a	nv)	1335'	19	19.88 A	c.		40
18. DISTANCE FROM PROPO TO NEAREST WELL, DE	SED LOCATION®			19. PRO	POSED DEPTI	i	20. ROT	ARY OR CABLE TOOLS
OR APPLIED FOR, ON THE	S LEASE, PT.	.1 LU.	933'±	49	900'		Ro	otary
21. ELEVATIONS (Show whe	ther DF, RT, G	R, etc.)						22. APPROX. DATE WORK WILL START
3912.8' GL								As Soon As Possible
23.		r	PROPOSED CASI	ING AND	CEMENTIN	G PROGRA	И	
SIZE OF HOLE	ORADE, SIZE OF	CASINO	WEIGHT PER F	00Т	SETTING	DEPTH		QUANTITY OF CEMENT
12-1/4"	8-5/8"	J-55	24.0#		560	, 1	46	O± sx Class C (Circ)
7-7/8"	5-1/2"	J-55	17.0#		4900) 1	100	O± sx Class C
	٠							
	I	1.	,	1			ŀ	
D	2	-1	40001 3		1.4			an atandard Casubura
								on-standard Grayburg ing. Set 5-1/2"
								isolate porous zones.
-			orable Gra			ic cemer	10 00	isotate porous zones.
Serectivel	Y Perrore	.cc ravi	orante Gra	ybarg	Tolles.			
Run 2-7/8'	tubina t	o perf	orations a	nd tr	eat for	nation v	vith 1	5% HCL. Sand-frac
formation		_						
			-					
0 4-4 1		De 1			Dl			

SIGNED JERRY W	M. Voug	Permit Agent	DATE	1/19/93
(This space for Federal or S				
PERMIT NO.		APPROVAL DATE		· · · · · · · · · · · · · · · · · · ·
Application approval does not watta CONDITIONS OF APPROVAL, IF ANY		al or equitable title to those rights in the subject lease wh	ich would entitle the appl	icant to conduct operations the

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator	ACCIO OCTROLO	UM COMPANY	Lease	LIC WES	T "D"		Well No.
SOC	ORRO PETROLE			H.E. WES	טו פ	I Committee	68
Unit Letter	Section 10	Township 17 SOUTH	Range	31 EAST	NMPM	County	EDDY
Actual Footage Loc		1, 500111	L	<u> </u>	MMPM	I	
	t from the SOL		1335		feet from	the EAST	
Ground Level Elev 3912.8'	1 -	mation rg-San Andres	Pool Grav	burg-Jac	kson Po	100	Dedicated Acreage:
		the subject well by colored p		· · · · · · · · · · · · · · · · · · ·			Acres Acres
Singl	e Lease	ted to the well, outline each					
unitization, f	force-pooling, etc.?	If answer is "yes" type o	F consolidatio	n NA			
<u></u>		d tract descriptions which h			ed. (Use reve	rse side of	
this form necess	sary			****			
	_	the well unit all interests d unit, eliminating such in					nitization, forced-pooling,
							OR CERTIFICATION
	i			<u> </u>			by certify the the information
	i					contained here	ein is true and complete to the
	i					best of my kn	owledge and beltef.
	į .					Signature	9/2
	1					Printed Nam	
	1					1 1	W. LONG
	+					Position	1
							t Agent
	ļ ļ					Company	DEMPOTERM CO
			İ		1 5-	Date	PETROLEUM CO.
					1 [1/1	9/93
	. 				· F	SURVEY	OR CERTIFICATION
			<u> </u>				
	i		!	i			ty that the well location shown vas plotted from field notes of
	i			t !		actual surveys	made by me or under my
	İ						nd that the same is true and he best of my knowledge and
	1					belief.	•]
	1		3913.7	3915.7		Date Survey	
	1	3	5915./	1 1		JAN Signature &	UARY 5, 1992
 	+			-1335'		Professiona	
	ļ		3909.4	3912.2'			
			Į			~ //	GARY PART
	} 					J) Pay	
			·			Certificate	No. 103H Ц. цита, 1876 Сонали й. питон 3239
3000	200 1552 1553	1000 0010 0010		Contract a Straight		1 27	RACID TI HOHUTT, 7977
0 330 660	990 1320 1650	1980 2310 2640 20	00 1500	1000 50	0 0	<u>`</u>	18-11-12044

HNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on

Form approved. Budget Bureau No. 1004-0136

·		D SINIES		reverse sid	.e)	Expires: Decemb	oer 31, 1991
	DEPARTMENT	OF THE IN	ILEK	IOR	ĺ	5. LEASE DESIGNATION A	ND BERIAL NO.
	BUREAU OF L	AND MANAG	EWEN.	r	1	LC 029426-B	
ΔΡΡΙΙ	CATION FOR PE	BMIT TO D	RILL	OR DEEDEN		6. IF INDIAN, ALLOTTED	OR TRIBE NAME
TYPE OF WORK	OATION TOTT L	111111111111111111111111111111111111111	1.11	OHDELIEN			
	LL X	DEEPEN [7		į	7. UNIT LOREDMENT NA	¥B
TYPE OF WELL		DEE, 2.1	_			Keel-West Wate	
WELL X CA	s OTHER IN	-FILL WELL	81N 201	GLE X MULTIPE	·• 🔲 🖠	8. FARM OR LEASE NAME, WELL	Project
NAME OF OPERATOR			F	h.505-677-3223		H.E. West "B	" No.69
	SOCORRO PETROLEU	M COMPANY				9. API WELL NO.	
ADDRESS AND TELEPHONE NO.	P.O. Box 37					•	
	Loco Hills, New	Mexico 882	55			10. FIELD AND POOL, OR	WILDCAT
LOCATION OF WELL (R. At surface	eport location clearly and	in accordance wit	h any S	tate requirements.*)		Grayburg-Jack	
1470'FSL, 25	50'FEL, Sec.10,	T.17S., R	.31E.	(Uni	t J)	11. SEC., T., E., M., OR BI AND SURVEY OR ARE	LK.
At proposed prod. zon				(NWS	•		
					,	Sec.10, T.17S	•
DISTANCE IN MILES .	AND DIRECTION FROM NEAR	EST TOWN OR POST	r orfice	•		12. COUNTY OR PARISH	13. BTATE
	s northeast of I	oco Hills,				Eddy	N.M.
DISTANCE FROM PROPO LOCATION TO NEARES	r		16. NO 	OF ACRES IN LEASE	17. NO. 6	OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1335' 1919.88 Ac.						40	
DISTANCE FROM PROI	POSED LOCATION® ORILLING, COMPLETED,		19. PR	OPOSED DEPTH	20. ROTA	BY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IIS LEASE, FT.	933'±	4	900'	Ro	tary	
	ether DF, RT, GR, etc.)					22. APPROX. DATE WOL	RK WILL START
3911.3' GL						As Soon As F	Possible
•	•	PROPOSED CASI	ING ANI	CEMENTING PROGRA	М		
SIZE OF HOLE	ORADE, SIZE OF CASINO	WEIGHT PER F	OOT	SETTING DEPTH	1	QUANTITY OF CEMEN	T
12-1/4"	8-5/8" J-55	24.0#	,	560'	460	± sx Class C (C	Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'	1000	± sx Class C	
	Ì	l			ļ		
_	o drill to about		_				
-	State approval				-	_	
	n casing to TD,				nt to i	solate porous :	zones.
Selective	ly perforate fav	orable Gra	yburg	zones.			
				_			
	" tubing to perf		nd tr	eat formation	with 15	% HCL. Sand-f:	rac
formation	and test to tan	ıks.					
		_					
See attac	hed <u>Drilling Dat</u>	a and Surf	ace t	Ise Plan.			

IGNED JERRY W.	TONG Permit A	Agent 1/22/93
This space for Federal or Sta		
ERMIT NO.	APPROVAL	I. DATE

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	ORRO PETROL	EUM COMPANY	L	ease	H.E. WEST	"B"		Well No.	69
Unit Letter	Section	Township	R	ange			County		
J	10	17 SOUTH			31 EAST	NMPM		EDDY	
Actual Footage Loc	cation of Well:								
1470 fee		OUTH line and		2550		feet from	he EAST	line	
Ground Level Elev	Producing F	ormation	P	ool				Dedicated A	creage:
3911.3'	Grayb	urg-San Andr	es	Graybı	irg-Jacks	son Poc	1	4	O Acres
1. Outline the a	creage dedicated t	o the subject well by co	olored pen	cil or hachur	e marks on the	plat below.			
		cated to the well, outlin	ne each ai	nd identify th	ie ownership the	ereof (both	as to workin	g interest an	d royalty).
	Lease of diffe	erent ownership is dedi	cated to t	he well. have	the interest of	all owners	been consoli	idated by cor	nmunitization.
1	force-pooling, etc.							,	
Yes	☐ No	If answer is "yes"	type of o	consolidation	NA				
If answer is "no	o" list of owners	and tract descriptions	which hav	e actually be	en consolidated	l. (Use rever	se side of		
this form necess									
	_	to the well unit all i				•		nitization, fo	orced-pooling,
otherwise) or u	intil a non-stand	ard unit, eliminating	such inter	rest, has bee	n approved by	the Divisio	n		
							OPERAT	OR CERTI	FICATION
	i			i			I here	ibu certifu the	the information
	<u> </u>			ļ		.			d complete to the
<u>'</u>	ļ			1			best of my kn	owledge and be	itef.
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							JERRY	W. LON	G V
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	l			i			Company		T 77774 GO
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	i						SURVEY	OR CERTI	FICATION
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	i	3908.0	3907.9	<u> </u>			Date Survey	red	
]]	i İ		1	ļ <u>i</u>		}	JAN	UARY 5, 1	992
1 1	}	0~		2 5 5	0'		Signature &		
	+	3907.2	3904.9'				Professiona	l Surveyor	
		3907.2	3304.3	ļ					
						i		T. V. T. V.	NAME OF THE OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER, OWNER,
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								8.00	- Andrews

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991 5. LEASE DESIGNATION AND SERIAL NO.

	D					i		022122	
	BUREAU OF L	AND MANAG	EMENI				LC 029426-B		
APPLIC	ATION FOR PE	RMIT TO D	RILL C	R DEE	PEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
1a. TIPE OF WORK									
	LX	DEEPEN [7			-	7. UNIT LOBERMENT NA	¥3	
b. TYPE OF WELL			_			}	Keel-West Wat		
OIL X GAS	LL OTHER IN-	FILL WELL	SINGL ZONE	X	MULTIPLE ZONE	╸□ ╽	8. FARM OR LEASE HAME, WELL	Project	
2. NAME OF OPERATOR				505-677	7-3223		H.E. West "B"	No. 70	
S	OCORRO PETROLEUI	M COMPANY				-	9. AM WELL NO.	1,0.70	
3. ADDRESS AND TELEPHONE NO. P	.O. Box 37								
	oco Hills, New 1	Mexico 882	5.5				10. FIELD AND POOL, OF	R WILDCAT	
4. LOCATION OF WELL (Rep. At surface	port location clearly and in	accordance with	h any Stat	e requiremen	ts.*)		Grayburg-Jackson Pool		
1410'FST. 130	5'FWL, Sec.10,	ጥ 17ፍ թ	31 F		(Unit	L)	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone	•	1.1/5., K.			(NWSW)			
	Same				,	´ \	Sec.10, T.17S	., R.31E.	
14. DISTANCE IN MILES A	4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE							13. STATE	
6.7 Air miles	northeast of Lo	co Hills,	New Me	exico		İ	Eddy	N.M.	
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST	ED*		16. NO. C	F ACRES IN	LEASE		F ACRES ASSIGNED		
PROPERTY OR LEASE LI (Also to nearest drlg.	NE, FT. unit line, if any) 13	335'	191	9.88 Ac	•	}	40		
18. DISTANCE FROM PROPO	SED LOCATION®		19. PROP	OSED DEPTH		20. ROTAL	ABY OR CABLE TOOLS		
TO NEAREST WELL, DR OR APPLIED FOR, ON THE	B LEASE, FT.	933'±	490	0'		Rot	otary		
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					 	22. APPROX. DATE WO	RK WILL START*	
3898.9' GL	•						As Soon As	Possible	
23.	I	PROPOSED CASI	NG AND C	EMENTING	PROGRAM	А			
SIZE OF HOLE	GRADE, SIZE OF CASINO	WEIGHT PER F	00T	SETTING D	E PTH		QUANTITY OF CEME	NT.	
12-1/4"	8-5/8" J-55	24.0#		560'		460:	t sx Class C (Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900'		1000:	t sx Class C		
•									
	ı		ı			•			

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

BIGNED JURY 7, C	Permit Agent	DATE 1/25/93
(This space for Federal or State office person No.	APPROVAL DATE	
Application approval does not warrant or certify the	at the applicant holds legal or equitable title to those rights in the subject leas	e which would entitle the applicant to conduct operations

Form C-102 Revised 1-1-69

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

·			<u> </u>				Y
Operator SOC	ORRO PETROLE	UM COMPANY	Lease .	H.E. WEST	"B"		Well No. 70
Unit Letter	Section	Township	Range			County	<u> </u>
1	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc						L	
1440	t from the SOL	JTH line and	1305		feet from	the WES	T line
Ground Level Elev			Pool		1000 110111	<u> </u>	Dedicated Acreage:
3898.91	1	-San Andres	Gravb	urg-Jackson	Pool		40
							40 Acres
1. Outline the a	creage dedicated to	the subject well by colored p	ench or nach	rie marks on me	prat below.		
2. If more than	one lease is dedica	ted to the well, outline each	and identify	the ownership the	ereof (both	as to working	ng interest and royalty).
Single	Lease						
1		ent ownership is dedicated to	the well, ha	ve the interest of	all owners	been consol	idated by communitization,
l	force~pooling, etc.?			. NA			
☐ Yes	∐ No	If answer is "yes" type o		ш			
1		d tract descriptions which h	ave actually	been consolidated	. (Use reve	rse side of	
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	1		l				PETROLEUM COMPANY
	1	İ	1		-	Date	TETROPEON CONTANT
	i		i		1	1/2	25/93
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UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

	DEIMARTIMENT	0		, . · ·		1	5. LEASE DESIGNATION AND SERIAL NO.			
	BUREAU OF L	AND MANAG	EMENT				LC 029426-B			
APPLIC	CATION FOR PE	RMIT TO D	RILL (OR DEEP	EN		6. IF INDIAN, ALLOTTE	E OR TRIBE NAME		
la. TYPE OF WORK										
DRII	LX	DEEPEN [7. UNIT ACREEMENT Keel-West Wa			
b. TYPE OF WELL	. =		SING		MULTIPLE	_ -		Project		
WELL A WI	OTHER IN-	FILL WELL	ZONE		CONE		8. FARM OR LEASE NAME, W			
2. NAME OF OPERATOR			Ph	.505-677-	3223		H.E. West "E	3" No.71		
	SOCORRO PETROLEU	M COMPANY					9. API WELL NO.			
3. ADDRESS AND TELEPHONE NO.	P.O. Box 37									
	Loco Hills, New	Mexico 882	55				10. FIELD AND POOL,	OR WILDCAT		
	port location clearly and i			te requirements.	.*)		Grayburg-Jackson Pool			
	'FEL, Sec.9, T.	17s., R.31	E.		(Unit	1)	11. SEC., T., R., M., OR AND SURVEY OR .	BLK.		
At proposed prod. zon	e Same	•			(NESE)	-				
Same							Sec.9, T.17	•		
14. DISTANCE IN MILES	AND DIRECTION FROM NEARE	ST TOWN OR POST	T OFFICE.				12. COUNTY OR PARIS	H 13. STATE		
	s northeast of L	oco Hills,	New M	lexico		}	Eddy	N.M.		
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO.	OF ACRES IN LE.	ASE 1		OF ACRES ASSIGNED THIS WELL			
PROPERTY OR LEASE I (Also to nearest drl;	INE, FT.	335'	191	19.88 Ac.	1		40			
18. DISTANCE FROM PROF	OSED LOCATION*			OSED DEPTH		O. ROTAE	Y OR CABLE TOOLS			
OR APPLIED FOR, ON TH	RILLING, COMPLETED, IS LEASE, FT.	933'±	490	00'		Rot	otary			
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)						22. APPROX. DATE V	VORK WILL START*		
3885.4' GL							As Soon As	Possible		
23.	1	PROPOSED CASI	ING AND	CEMENTING PE	ROGRAM					
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER F	T007	SETTING DEP	тн		QUANTITY OF CEM	ENT		
12-1/4"	8-5/8" J-55.	24.0#		560'		460	sx Class C	(Circ)		
7-7/8"	5-1/2" J-55	17.0#		4900'		1000	t sx Class C			
			-							
	1 I		ļ		1					

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

		rogram, if any.	
GNED JERRY W. JONG	Permit Agent	DATE	1/26/93
This space for Federal or State office use)	APPROVAL DATE		
pplication approval does not warrant or certify that the applicant holds londitions of APPROVAL, IF ANY:	egal or equitable title to those rights in the subject lease	which would entitle the appli-	cant to conduct operation

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator SOC	ORRO PETROLE	JM COMPANY	Lease	H.E. WEST	г "в"		Well No. 71
Unit Letter	Section	Township	Range			County	<u> </u>
1	9	17 SOUTH		31 EAST	NMPM	<u> </u>	EDDY
Actual Footage Loc	001	mu	15		,	EAC	T
Ground Level Elev	t from the SOU.		Pool		feet from	the EAS	line Dedicated Acreage:
3885,41	, -	g-San Andres	Gra	yburg-Jac	kson P	ool	40 Acres
		the subject well by colored p	encil or hach	ure marks on the	plat below.		
2. If more than	one lease is dedica	ted to the well, outline each	and identify	the ownership th	ereof (both	as to working	ng interest and royalty).
	le Lease	ent ownership is dedicated to	the well be	we the interest of	f all awmers	heen consol	idated by communitization
	orce-pooling, etc.?	int ownership is dedicated w	the well, he		an owners	need course	idaced by communication,
Yes Yes	☐ No	If answer is "yes" type of	consolidation	on <u>NA</u>			
If answer is "no this form necess		d tract descriptions which h	ave actually	been consolidated	i. (Use reve	rse side of	,
No allowable w	ill be assigned to	the well unit all interests d unit, eliminating such in					nitization, forced-pooling,
outer wise, or a		u umo, omittadang odon		I			OR CERTIFICATION
				 		I her	eby certify the the information
	l I			! !			ein is true and complete to the awiedge and, belief.
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	i					1 /	W. LONG
	-			†		Position	, , , , , , , , , , , , , , , , , , , ,
	İ						t Agent
	İ			1		Company	PETROLEUM CO.
	1			l		Date	FEIROLEOM CO.
				1		1/2	26/93
	1				·	SURVEY	OR CERTIFICATION
	[<u> </u>		
	!			[fy that the well location shown was plotted from field notes of
				[!		actual survey	s made by me or under my
							end that the same is true and the best of my knowledge and
						belief.	
		. \		1	.07.0	Date Surve	
	3887.0'3892.4			. / 38	87.0	92.4' JAN	UARY 5, 1992
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	3885.0' 5 3881.1		,	\		/. ,	CARY Y MAD
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······································	Spring Springs	papit molecular	Sec. Congression	N. Arthur Catherin			KACIII A. ROHIT. 7977
0 330 660	990 1320 1650	1980 2310 2640 200	1500	1000 500	0	<u> </u>	12-74-52047



February 6, 1993

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.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E. No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E. No.71 H.E. West "B" - 1335'FSL, 15'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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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.

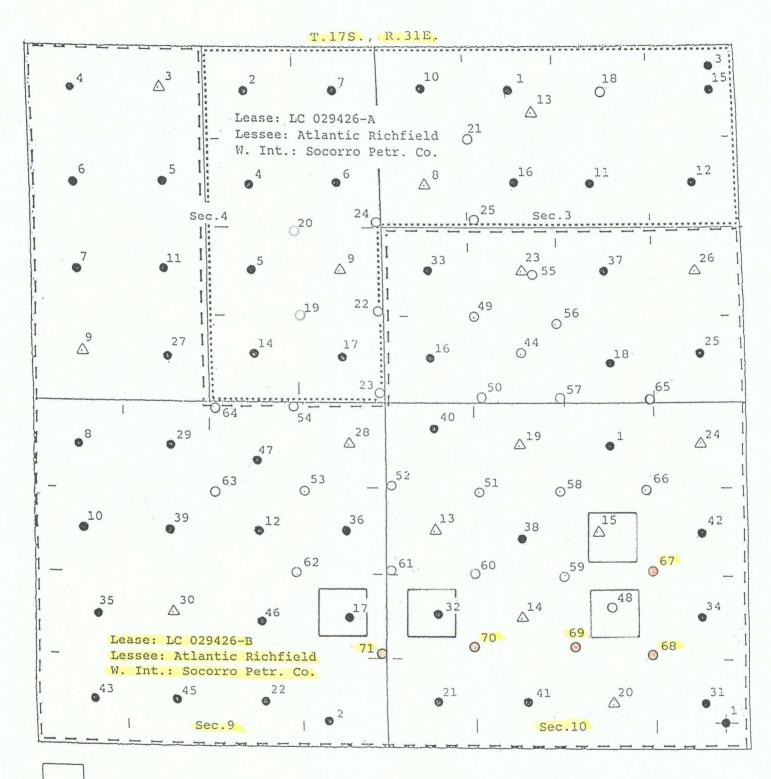
A copy of this application has been mailed to the Bureau of Land Management. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

ERRY W. LONG

Permit #gent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker



Standard Location

O Proposed Location

OWNERSHIP MAP (Grayburg)

UNITED STATES

(Other instructions on

Form approved.

SUBMIT IN TRIPLICATE. Budget Bureau No. 1004-0136 reverse side) Expires: December 31, 1991

	DEPARTMENT	OF THE IN	ロヒス	.UK		1	5. LEASE DESIGNATION A	Vin Empire Vin
	BUREAU OF L	AND MANAGI	ЕМЕНТ				LC 029426-B	ND BERIAL NO.
ADDLIC					DEN		6. IF INDIAN, ALLOTTER	OR TRIBE NAME
	ATION FOR PE	HMII TO D	<u> </u>	ON DEEL	PEN			
la. TYPE OF WORK	LX	DEEPEN [٦			-	7. UNIT ACREMENT NA	**
b. TYPE OF WELL	L (A)	DELI EIA	J			}	Keel-West Wat	erflood Project
WELL X GAS	LL OTHER IN	-FILL WELL	81N ZON	CLE X	MULTIPLE Zone		8. FARM OR LEASE HAME, WELL	LNO.
2. NAME OF OPERATOR			P	h.505-677	-3223		H.E. West "B"	No.67
	OCORRO PETROLEU	M COMPANY					9. AR WELL HO.	
3. ADDRESS AND TELEPHONE NO. P	0.0. Box 37							
I	oco Hills, New	Mexico 882	55			ľ	10. FIELD AND POOL, OF	WILDCAT
4. LOCATION OF WELL (Rep. At surface	port location clearly and	in accordance with	any St	ate requiremen	ts.*)		Grayburg-Jack	son Pool
2625'FNL, 133	5'FEL, Sec.10,	T.17S., R.	31E.		(Uni	tG)	11. SEC., T., R., M., OR B AND SURVEY OR AR	LK.
At proposed prod. zone					(SWN	E)		
	·						Sec.10, T.17	•
14. DISTANCE IN MILES AT	ND DIRECTION FROM NEAR	EST TOWN OR POST	OFFICE	•			12. COUNTY OR PARISH	13. STATE
	northeast of L	oco Hills,					Eddy	N.M.
15. DISTANCE FROM PROPOS LOCATION TO NEAREST			16. NO.	OF ACRES IN	LEASE		F ACRES ASSIGNED	
PROPERTY OR LEASE LI (Also to nearest drlg.	NE, FT unit line, if any)	1335'	19	919.88 Ac	. 1		40	
18. DISTANCE FROM PROPO TO NEAREST WELL, DR			19. PRO	POSED DEPTH		20. ROTAL	Y OR CABLE TOOLS	·
OR APPLIED FOR, ON THE	B LEASE, PT.	933'±	49	9001		Rot	ary	
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)						22. APPROX. DATE WO	RK WILL START*
3915.3' GL			•				As Soon As I	Possible
23.		PROPOSED CASI	NG AND	CEMENTING	PROGRAM	1		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	007	SETTING D	EPTH		QUANTITY OF CEME?	(T
12-1/4"	8-5/8" J-55	24.0#		560'		460:	sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'		1000:	t sx Class C	

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

BOVE SPACE DESCRIBE PROPOSED PROGRAM: If prop n directionally, give pertinent data on substurface location of a	ocal is to deepen, give data on present productive zone of measured and true vertical depths. Give blowout preve	and proposed new productive zone. If proposal is to drienter program, if any.
IGNED TERRY W. LONG	Permit Agent	DATE 1/19/93
This space for Federal or State office use)	APPROVAL DATE	
pplication approval does not warrant or certify that the application of APPROVAL, IF ANY:	nt holds legal or equitable title to those rights in the subject	t lease which would entitle the applicant to conduct operations
APPROVED BY	TITLE	DATE

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

			·				
Operator SOC	ORRO PETROLE	UM COMPANY	Lease	H.E. WEST	"B"		Well No. 67
Unit Letter	Section	Township	Range			County	
G	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc	cation of Well:	<u> </u>			····		
2625 fee	t from the NOR		1335		feet from	the EAS	
Ground Level Elev	j	•	Pool	_			Dedicated Acreage:
391 <u>5.3</u> '		g-San Andres	·	rg-Jackson			40 Acres
1. Outline the a	creage dedicated to	the subject well by colored p	encil or hachu	re marks on the	plat below.		
2. If more than	one lease is dedica	ted to the well, outline each	and identify t	he ownership the	ereof (both	as to working	ng interest and royalty).
Sing.	le Lease	ent ownership is dedicated to	the wall how	a the interest of	all owners	heen consol	idated by communitization
	force-pooling, etc.?	on onecising is consisted w	· cas near, have	0 440 111001000 01	un 0,, 2010	DOCK CORROL	idawa oj vominandiada,
Yes	☐ No	If answer is "yes" type o	f consolidation	NA NA			
If answer is "no	o" list of owners ar	d tract descriptions which h	ave actually b	een consolidated	l. (Use reve	rse side of	
this form necess	вагу.						
		the well unit all interest rd unit, eliminating such in					nitization, forced-pooling,
otherwise) or t	LLEI & HUH-SCAHUA	. C. Chie, Chimmating Such it	torest, mas be		THE DIVISIO		POD CEDTIFICATION
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L			<u> </u>			ERRY	W. LONG
	1	i		 		Position	/ ' '
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	!					COMPANY	PETROLEUM COMPANY
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	1	8					/19/93
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Form 3160-3

SUBMIT IN TRIPLICATE. (Other instructions on

Form approved. Budget Bureau No. 1004-0136

(December 1990)		ED STATES		reverse si	de)	Expires: Decemb	per 31, 1991
	DEPARTMENT	OF THE I	TER	IOR	ĺ	5. LEASE DESIGNATION A	ND BEBIAL NO.
	BUREAU OF	LAND MANAG	EWEN.	T		LC 029426-B	
	CATION FOR P	ERMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME
la. TYPE OF WORK	LL 🖾	DEEPEN [7			7. UNIT ACREEMENT NA	*1
b. TYPE OF WELL		DUL. 0. \ 2				Keel-West Wat	- '
	ELL OTHER IN	N-FILL WELL	811 20	NE X ZONE	ræ 🗆	8. FARM OR LEASE NAME, WELL	NO.
2. NAME OF OPERATOR			F	Ph.505-677-3223		H.E. West "B"	No.68
3	SOCORRO PETROLE	UM COMPANY				9. AM WELL NO.	
3. ADDRESS AND TELEPHONE NO.						10. FIELD AND POOL, OF	WILDCAT
4. LOCATION OF WELL (R	Loco Hills, New eport location clearly and	Mexico 882	55 hany 8	tate requirements.*)		Grayburg-Jack	
At surface						11. BEC., T., B., M., OR B	
	35'FEL, Sec.10	, T.17S., R	.31E.			AND SURVEY OR AR	EA
At proposed prod. zor	^e Same			(NWSE	.)	Sec.10, T.17S	., R.31E.
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE	; •		12. COUNTY OR PARISH	13. STATE
7.3 Air mile	s northeast of :	Loco Hills,	New	Mexico		Eddy	N.M.
15. DISTANCE FROM PROP LOCATION TO NEARES	r		16. NO	OF ACRES IN LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE (Also to nearest dr)	g. unit line, if any)	1335'		919.88 Ac.		40	
18. DISTANCE FROM PROTECTION NEAREST WELL, I	COSED LOCATION® DRILLING, COMPLETED,		19. PR	OPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON TH	IIS LEASE, FT.	933'±	4	900'	Ro	tary	
21. ELEVATIONS (Show w)	ether DF, RT, GR, etc.)					22. APPROX. DATE WO	
3912.8' GL						As Soon As I	ossible
23.	•	PROPOSED CAS	ING AN	D CEMENTING PROGRA	A.M.		
SIZE OF HOLE	ORADE, SIZE OF CASINO	WEIGHT PER I	T00T	SETTING DEPTH		QUANTITY OF CEMEN	₹ T
12-1/4"	8-5/8" J-55	24.0#		560'	460)± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'	1000)± sx Class C	
	1	1			•		
Propose t	o drill to abou	t 4900' and	comp	olete as an in-	fill no	on-standard Gra	yburg
	State approva						
	n casing to TD,						
Selective	ly perforate fa	vorable Gra	yburg	g zones.			
	" tubing to per		ind tr	reat formation	with 1	5% HCL. Sand-f	rac
formation	and test to ta	nks.					
Sec 2++	hed Drilling Da	ta and Curf	Faco r	Tee Dlan			
see actao	ned Diffilling Da	ica and Suri	ace (JSE FIGH.			

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SIGNED CONTY	NG Permit Agent	1/19/93
(This space for Federal or State		
	certify that the applicant holds legal or equitable title to those rights in the subject lease	which would entitle the applicant to conduct operations the
CONDITIONS OF APPROVAL, IF ANY:		

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	ORRO PETROLE	UM COMPANY	Lease	H.E. WEST	"B"		Well No. 68
Unit Letter	Section	Township	Range			County	
J	10	17 SOUTH	i	31 EAST	NMPM		EDDY
Actual Footage Loc			4				_
1335 feet Ground Level Elev	t from the SOU		1335		feet from	the EAS	line Dedicated Acreage:
3912.8'		rg-San Andres		burg-Jack	son Po	ool	40 -
		the subject well by colored p	·				Acres Acres
Single 3. If more than	e Lease	ted to the well, outline each		ve the interest of			
Yes Yes	☐ No	If answer is "yes" type or	consolidation	NA NA			
If answer is "no this form necess		d tract descriptions which h	ave actually	been consolidated	. (Use reve	rse side of	
No allowable w	rill be assigned to	the well unit all interests d unit, eliminating such in					nitization, forced-pooling,
							OR CERTIFICATION
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HNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on

Form approved. Budget Bureau No. 1004-0136

•		D STATES			reverse side	e)	Expires: Decem	ber 31, 1991	
	DEPARTMENT	OF THE IN	TERIOR	₹		Ĩ	5. LEASE DESIGNATION A	ND BEBIAL NO.	
	BUREAU OF L	AND MANAGE	EMENT				LC 029426-B		
APPL	ICATION FOR PE	RMIT TO D	RILL O	R DEE	PEN		6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
ia. Type of Work	ILL X	DEEPEN [ו			-	7. UNIT AGREEMENT NA	¥3	
b. TYPE OF WELL	ILL (A)	DEEPEN L)	Keel-West Wat	erflood Project	
	NELL OTHER IN-	FILL WELL	SINGLE ZONE	X	MULTIPL		8. FARM OR LEASE NAME, WEL	L NO.	
2. NAME OF OPERATOR			Ph.	505-67	7-3223		H.E. West "B" No.69		
	SOCORRO PETROLEU	M COMPANY					9. AM WELL HO.		
3. ADDRESS AND TELEPHONE NO	P.O. Box 37								
	Loco Hills, New						10. FIELD AND POOL, O	R WILDCAT	
4. LOCATION OF WELL () At surface	Report location clearly and in	accordance with	any State	requireme	nts.*)		Grayburg-Jack		
1470'FSL, 25	550'FEL, Sec.10,	T.17S., R.	31E.		(Unit	: J)	11. SEC., T., E., M., OR E AND SURVEY OR AR	ELK.	
At proposed prod. zo	•				(NWSI	- '		_	
					,		Sec.10, T.178	•	
14. DISTANCE IN MILES	AND DIRECTION FROM NEARE	ST TOWN OR POST	OFFICE*				12. COUNTY OR PARISH	13. STATE	
	es northeast of L	oco Hills,	New Me	xico			Eddy	N.M.	
10. DISTANCE FROM PRO LOCATION TO NEARE PROPERTY OR LEASE	ST LINE PT		16. NO. OF				OF ACRES ASSIGNED HIS WELL		
(Also to nearest di	rlg. unit line, if any)	1335'		.88 Ac	· <u> </u>		40		
	DRILLING, COMPLETED,		19. PROPOS	ED DEPTH		20. ROTA	RY OR CABLE TOOLS		
OR APPLIED FOR, ON T		933'±	4900) †		Ro	tary		
21. ELEVATIONS (Show w	whether DF, RT, GR, etc.)						22. APPROX. DATE WO	BE WILL START	
3911.3' .G	L					·	As Soon As	Possible	
23.		PROPOSED CASI	NG AND CE	MENTING	PROGRA	М			
SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER FO	от	SETTING :	DEPTH		QUANTITY OF CEME	NT	
12-1/4"	8-5/8" J-55	24.0#		560		460	± sx Class C (Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900	' -	1000	± sx Class C		
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		•					•		

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

IGNED TERRY W. LONG	Permit Agent	DATE 1/22/93
(This space for Federal or State office use)	APPROVAL DATE	
Application approval does not warrant or certify that the applicant CONDITIONS OF APPROVAL, IF ANY:	holds legal or equitable title to those rights in the subject lease	which would entitle the applicant to conduct operation

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator			Lease				Well No.
soc	ORRO PETROLE	UM COMPANY		H.E. WES	T "B"		69
Unit Letter	Section	Township	Range			County	
J	10	17 SOUTH	<u> </u>	31 EAST	NMPM		EDDY
Actual Footage Loc	20		0550			~	r
		UTH line and	2550 Pool		feet from	the EAS	
Ground Level Elev 3911.3'	1	rg-San Andres		burg-Jack	son Poo	~]	Dedicated Acreage:
		the subject well by colored p		·			40 Acres
1. Outline the a	creage dedicated to	me adoject wen by colored p	CHCH OI MACE	int marks on the	piac below.		
		ated to the well, outline each	and identify	the ownership th	ereof (both	as to workin	g interest and royalty).
	E Lease of differ	ent ownership is dedicated to	the well, ha	ave the interest o	f all owners	been consol	idated by communitization.
i	orce-pooling, etc.?						· · · · · · · · · · · · · · · · · · ·
Yes	☐ No	If answer is "yes" type o	f consolidati	on <u>NA</u>			
1		ad tract descriptions which b	ave actually	been consolidate	d. (Use reve	rse side of	
this form necess No allowable w		the well unit all interest	have been	consolidated (b	y commun	itization, ur	nitization, forced-pooling.
otherwise) or u	intil a non-standa	rd unit, eliminating such in	terest, has	been approved by	the Divisio	n	
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<u>}</u>				!		Printed Nan	1 1
L				<u> </u>		JERRY	W. LONG
	i '					Position	/ - 7gon+
	j 1			1	1 -	Company	t Agent
	1			1			PETROLEUM CO.
	1			1		Date	J I II I I CO.
	1			·		1/2	22/93
	. 1			1	.	SIIDVEV	OR CERTIFICATION
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UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

5. LEASE DESIGNATION AND BERIAL NO.

	BUREAU OF L	AND MANAGI	EWENT			LC 029426-B
APPLIC!	TION FOR PER	RMIT TO D	RILL	OR DEEPEN		6. IF INDIAN, ALLOTTED OR TRIBE NAME
1a. TYPE OF WORK	(11011 0111 01					
DRILL	ত	DEEPEN [٦			7. UNIT ACREMENT NAME
b. TYPE OF WELL	<u></u>	DELFEIN L	_		_	Keel-West Waterflood
WELL X WELL GAS	OTHER IN-	FILL WELL	SING ZONI	LE X MULTII	PLE	8. FARM OR LEASE HAME, WELL, NO.
2. NAME OF OPERATOR			Pł	1.505-677-3223	3	H.E. West "B" No.70
SO	CORRO PETROLEUM	1 COMPANY				9. API WELL NO.
3. ADDRESS AND TELEPHONE NO. P.	O. Box 37					
Lo	co Hills, New M	Mexico 882	5.5			10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL (Report At surface	rt location clearly and in	accordance with	h any Sta	te requirements.*)		Grayburg-Jackson Pool
1410'FSL, 1305'	FWL, Sec.10,	T.17S., R.	.31E.	(Uni	Lt L)	11. SEC., T., E., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zone	Same	,		(NWS	SW)	
	Same			•		Sec.10, T.17S., R.31E.
14. DISTANCE IN MILES AND	DIRECTION FROM NEARE	ST TOWN OR POST	OFFICE.			12. COUNTY OR PARISH 13. STATE
6.7 Air miles r		co Hills,				Eddy N.M.
15. DISTANCE FROM PROPOSES LOCATION TO NEAREST	0.	1	16. NO.	OF ACRES IN LEASE		OF ACRES ASSIGNED THIS WELL
PROPERTY OR LEASE LINE		35'	.1 Q	19.88 Ac.	10.	40
(Also to nearest drlg. u 18. DISTANCE FROM PROPOSI				POSED DEPTH	20. ROT	ARY OR CABLE TOOLS
TO NEAREST WELL, DRIL OR APPLIED FOR, ON THIS !	LING, COMPLETED,	33'±	۸۵	001		
21. ELEVATIONS (Show whether		33 1	49	00'	1 RC	tary 22, APPROX. DATE WORK WILL START*
	er Dr. KI, GK, ecc.)					
3898.9' GL						As Soon As Possible
23.	, . P	ROPOSED CASI	NG AND	CEMENTING PROGR	AM	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	007	SETTING DEPTH		QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#		560'	460	O± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'	1000	O± sx Class C
				٠.		
Propose to	drill to about	4900' and	compl	ete as an in-	-fill no	on-standard Grayburg
producer.	State approval	of the und	orthod	lox location i	is pend	ing. Set 5-1/2"
-	= -				-	isolate porous zones.
=	perforate favo					
_			_			
Run 2-7/8"	tubing to perfo	rations a	nd tre	at formation	with 1	5% HCL. Sand-frac
	nd test to tan	cs.				

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. (This r State office use) APPROVAL DATE __ Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY: _ TITLE _ APPROVED BY _ _ DATE _

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator SOC	ORRO PETRO	LEUM COMPAN	IY	Lease	H.E. WES	г "В"		Well No.
Unit Letter	Section	Township		Range			County	<u> </u>
1	10	_	OUTH	-	31 EAST	NMPM		EDDY
Actual Footage Loc				1	01 001	NMPM	1	LUUT
l		SOUTH line a		1305			the WES	т
		Formation	nd	Pool	· · · · · · · · · · · · · · · · · · ·	feet from	the WLS	line Dedicated Acreage:
Ground Level Elev	1			1	T1	Danl		· ·
3898.9'	Graybi	ırg-San Andı	es	Grayi	ourg-Jackson	n POOT		40 Acres
1. Outline the a	creage dedicated	to the subject we	ll by colored p	encil or hach	ure marks on the	plat below.		
		dicated to the wel	l, outline each	and identify	the ownership th	ereof (both	as to working	ng interest and royalty).
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this form necess		and tract descri	puons which b	lave actually	been consolidated	d. (Ose reve	tae aide of	
		to the well uni	t all interest	s have been	consolidated (b	y commun	itization, u	nitization, forced-pooling,
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UNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

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

	DEPARTMENT	OF THE IN	ITEDI	\cap D					
		_		_			5. LEASE DESIGNATION AND BEBIAL NO.		
	BUREAU OF L	AND MANAG	EMENT				LC 029426-B		
APPLIC	CATION FOR PE	RMIT TO D	RILL	OR DEE	PEN		6. IF INDIAN, ALLOTTER	OR TRIBE NAME	
la. TYPE OF WORK	. —		_				7. UNIT ACREMENT N		
DRIL b. TYPE OF WELL	L X	DEEPEN [J			ı	Keel-West Waterflood		
OIL 🔽 OAI	SIL OTHER IN-	-FILL WELL	81N 201	GLE X	MULTIP ZONE	LE	8. FARM OR LEASE NAME, WE	Project	
2. NAME OF OPERATOR			P	h.505-67	7-3223		H.E. West "B	" No.71	
Ş	SOCORRO PETROLEU	M COMPANY					9. ARI WELL NO.		
. ADDRESS AND TELEPHONE NO. 1	P.O. Box 37								
	Loco Hills, New	Mexico 882	55				10. FIELD AND POOL, O	R WILDCAT	
4. LOCATION OF WELL (Re	port location clearly and i	n accordance with	h any St	ate requireme	nts.*)		Grayburg-Jac	kson Pool	
At surface		177 5 31	_		/ T7 ÷	±	11. SEC., T., R., M., OR	BLK.	
	FEL, Sec.9, T.	1/S., R.31	E.		-	t I)	AND SURVEY OR A	REA	
At proposed prod. zone	Same				(NES	E)	Sec.9, T.17	S., R.31E.	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST	r office	•			12. COUNTY OR PARISE	13. STATE	
6.7 Air miles	s northeast of I	oco Hills,	New	Mexico			Eddy	N.M.	
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO	. OF ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL		
PROPERTY OR LEASE L (Also to nearest drig	INE, PT.	335'	19	919.88 A	·	10.	40		
13. DISTANCE FROM PROP	OBED LOCATION®			OPOSED DEPTH		20. ROT	RY OR CABLE TOOLS		
OR APPLIED FOR, ON THE		933'±	49	900'		Ro	tary		
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)		·			•	22. APPROX. DATE W	ORK WILL START	
3885.4' GL							As Soon As	Possible	
23.		PROPOSED CASI	ING AND	CEMENTING	PROGRA	м			
SIZE OF HOLE	GRADE, SIZE OF CASINO	WEIGHT PER F	00Т	SETTING	DEPTH		QUANTITY OF CEMI	:NT	
12-1/4"	8-5/8" J-55.	24.0#		560	1	460	t sx Class C	(Circ)	
7-7/8"	5-1/2" J-55	17.0#		4900	1	1000	t sx Class C		
	1			1		1			
	<u> </u>								

Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

•				
BOVE SPACE DESCRIBE PROPOSED PROGRAM: If propose on directionally, give pertinent data on subsurface locations and				c. If proposal is to dril
SIGNED JERRY W. LONG	TITILE Permit Ac	gent	DATE	1/26/93
(This space for Federal or State office use)	APPROVAL	DATE		
Application approval does not warrant or certify that the applicant I CONDITIONS OF APPROVAL, IF ANY:	olds legal or equitable title to those rig	this in the subject lease which would	entitle the applica	ant to conduct operations
APPROVED BY	ппе		DATE	
	*See Instructions On Reve	erse Side		
le 18 II S.C. Section 1001 makes it a crime for	any narron knowingly and t	villfully to make to any do		agazan af tha

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

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

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

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

DISTRICT_III

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	CORRO PETROLEI	UM COMPANY	Lease	H.E. WES	г "в"		Well No. 71
Unit Letter	Section	Township	Range			County	
I	9	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc	cation of Well:				·	<u> </u>	
1335 <u>fee</u>	t from the SOL	ЛН line and	15		feet from	the EAS	line
Ground Level Elev	1		Pool			-	Dedicated Acreage:
3885. <u>4'</u>	Graybur	g-San Andres	Gra	yburg-Jac	kson P	001	40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hach	ure marks on the	plat below.		
	one lease is dedica le Lease	ted to the well, outline each	and identify	the ownership th	ereof (both	as to working	g interest and royalty).
		ent ownership is dedicated to	the well, ha	we the interest of	all owners	been consol	idated by communitization,
unitization, f	force-pooling, etc.?			3.7.70			
Yes Yes	☐ No	If answer is "yes" type o	f consolidati	on <u>NA</u>			
If answer is "no this form necess		d tract descriptions which h	ave actually	been consolidated	i. (Use reve	rse side of	
	-	the well unit all interests d unit, eliminating such in		•			nitization, forced-pooling,
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	į						iby certify the the information sin is true and complete to the
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	!					JERRY Position	W. LONG
	1		•]			t Agent
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	i					Date	PETROLEUM CO.
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JERRY W. LONG
CONSULTANT

February 6, 1993

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.67 H.E. West "B" - 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. No.68 H.E. West "B" - 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. No.69 H.E. West "B" - 1470'FSL, 2550'FEL, Sec.10, T.17S., R.31E. No.70 H.E. West "B" - 1410'FSL, 1305'FWL, Sec.10, T.17S., R.31E. No.71 H.E. West "B" - 1335'FSL, 15'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 quarter-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, as amended. A royalty owner agreement for the affected leases has previously been filed with your office.

Enclosed are copies of the well location plat, 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. Please send the approval to SOCORRO PETROLEUM COMPANY at the address below and a copy to me at the letterhead address.

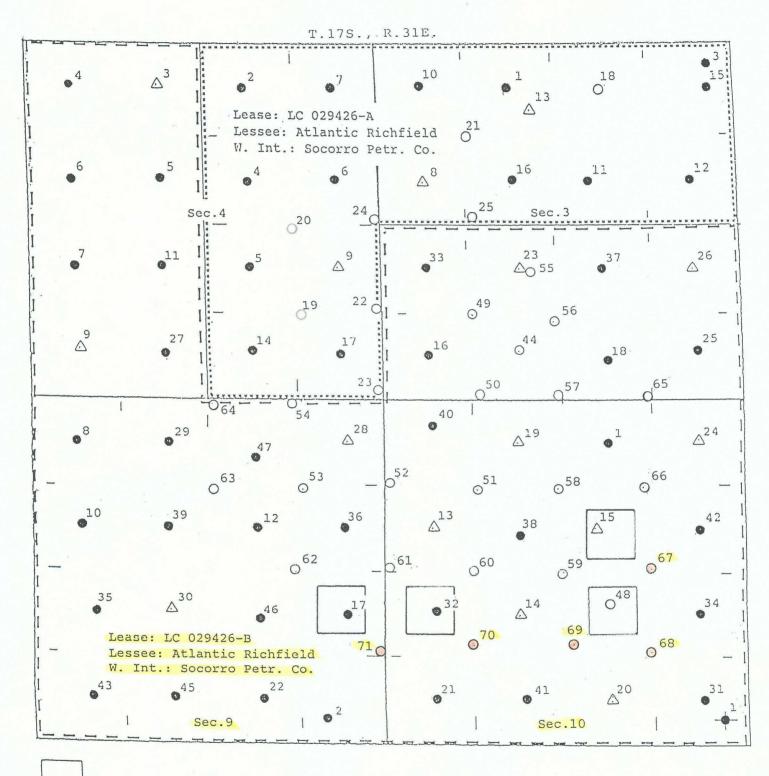
Permit Agent for:

SOCORRO PETROLEUM COMPANY

1c: SOCORRO PETROLEUM COMPANY
410 17th Street, Ste.430
Denver, CO 80202
Attn: Mr. Keeton Barker

JWL/bll

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



Standard Location

O Proposed Location

OWNERSHIP MAP (Grayburg)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE.

(Other instructions on reverse side)

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

5. LEASE DESIGNATION AND BERIAL NO. BUREAU OF LAND MANAGEMENT LC 029426-B 6. IF INDIAN, ALLOTTED OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7. UNIT ACREEMENT NAME DRILL X DEEPEN Keel-West Waterflood b. TYPE OF WELL Project SINGLE X MULTIPLE Zone OIL OIL X WELL _ 8. FARM OR LEASE NAME WELL NO OTHER IN-FILL WELL 2. NAME OF OPERATOR H.E. West "B" No.67 Ph.505-677-3223 9. AH WELL NO. SOCORRO PETROLEUM COMPANY 3. ADDRESS AND TELEPHIONE NO. P.O. BOX 37 10. FIELD AND POOL, OR WILDCAT Loco Hills, New Mexico 88255 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) Grayburg-Jackson Pool 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA (Unit G) 2625'FNL, 1335'FEL, Sec.10, T.17S., R.31E. At proposed prod. zone (SWNE) Same Sec.10, T.17S., R.31E. 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE. 12. COUNTY OR PARISH | 13. STATE 7.3 Air miles northeast of Loco Hills, New Mexico Eddy N.M. 15. DISTANCE FROM PROPOSED. 17. NO. OF ACEES ASSIGNED TO THIS WELL 16. NO. OF ACRES IN LEASE DISTANCE FROM PROPOSED

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig, unit line, if any) 1335' 1919.88 Ac. 40 18. DISTANCE FROM PROPOSED LOCATION* 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'± 4900' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 3915.3' As Soon As Possible 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE ORADE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 8-5/8" J-55 12-1/4" 24.0# 560' 460± sx Class C (Circ) 7-7/8" 4900' 5-1/2" J-55 17.0# 1000± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

JERRY W. LONG	Permit Agent	DATE _	1/19/93
(This space for Federal or State office use)	APPROVAL DATE		
Application approval does not warrant or certify that the approval, IF ANY:	oplicant holds legal or equitable title to those rights in the subjection	ect lease which would entitle the ap	plicant to conduct opera

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

Operator SOC	ORRO PETROLEI	UM COMPANY	Lease	H.E. WEST	"B"		Well No.
Unit Letter	Section	Township	Range			County	
G	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc			L			L	
2625 feet	t from the NOF	RTH line and	1335		feet from	the EAS	T line
Ground Level Elev			Pool		***************************************		Dedicated Acreage:
3915.3	Graybur	g-San Andres	Graybu	rg-Jackson	Pool		40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored p	encil or hach	ure marks on the	plat below.		
2. If more than	one lease is dedica	ted to the well, outline each	and identify	the ownership the	ereof (both	as to working	ug interest and royalty).
	le Lease					_	
	one lease of differ orce-pooling, etc.?	ent ownership is dedicated to	the well, hav	ve the interest of	all owners	been consol	idated by communitization,
Yes	∏ No	If answer is "yes" type o	f consolidatio	n NA			
	٠	d tract descriptions which h			/IIIaa wawa	ran aida of	
this form necess		d tract descriptions which h	ave actually	been consolidated	i. (Use reve	rse side of	
No allowable w	rill be assigned to	the well unit all interests d unit, eliminating such in					nitization, forced-pooling,
							FOR CERTIFICATION
			Į.				eby certify the the information ein is true and complete to the
	1	· ·	Į.				consider and belief.
			Ī			• •	
		į.				Signature	1/2
	i		\			Xer	4/1. Aug
	; 		į			Printed Nar	ne
) 1	1.2	/ ERRY	W. LONG
				<u> </u>		Position	/
	1	3	Į	• •	1 [Agent
	1		Į.	:		Company	
	1		1				PETROLEUM COMPANY
	ĺ		1	• •		Date	/10 /02
	i					Ι,	/19/93
			3917.9	3920.8'		SURVEY	OR CERTIFICATION
	i I			1775			
			 	1000		I hereby cert	ify that the well location shown
			3906.9	3919.7		_	was plotted from field notes of
			ļ				is made by me or under my and that the same is true and
							the best of my knowledge and
						belief.	
	İ					Date Surve	yed
	•		i			JAN	IUARY 4, 1992
	j į					Signature	& Seal of
				 -		Profession	al Surveyor
	ļ .						_
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	1					2 100	My as the
	j	· ·		,		1 //	(S) 1
	i		Ì			Certificate	No. 7803H Ц ЦДГУ, 1676
						Certificate	7 дозн ц цдту. 1676 соныт в. дигой. 18230
constructed 30	GR W. C. WARREN	S.24.97.	AM STEADLE CO.	a e ese side annel ficen		i \ i	жист л. тоныт тот
0 330 660	990 1320 1650	1980 2310 2640 20	000 1500	1000 500	0	*/	92-11-2048
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UNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on

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

reverse side) DEPARTMENT OF THE INTERIOR 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT LC 029426-B 6. IF INDIAN, ALLOTTED OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK 7. UNIT AGREEMENT NAME DRILL X DEEPEN [Keel-West Waterflood b. TYPE OF WELL SINGLE X MULTIPLE WELL X 8. FARM OR LEASE NAME WELL NO. OTHER IN-FILL WELL ZONE 2. NAME OF OPERATOR H.E. West "B" No.68 Ph.505-677-3223 9. API WELL NO. SOCORRO PETROLEUM COMPANY 3. ADDRESS AND TELEPHONE NO. P.O. BOX 37 10. FIELD AND POOL, OR WILDCAT Loco Hills, New Mexico 88255 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface Grayburg-Jackson Pool 11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA 1335'FSL, 1335'FEL, Sec.10, T.17S., R.31E. (Unit J) At proposed prod. zone (NWSE) Same Sec.10, T.17S., R.31E. 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12. COUNTY OR PARISH | 13. STATE 7.3 Air miles northeast of Loco Hills, New Mexico Eddy N.M. 10. DISTANCE FROM PROPUSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT 16. NO. OF ACRES IN LEASE 17. NO. OF ACRES ASSIGNED TO THIS WELL 1335' 1919.88 Ac. 40 (Also to nearest drlg, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION® 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 933'± 4900' Rotary 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START* 3912.8' As Soon As Possible PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE ORADE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT 8-5/8" 560' 12-1/4" J-55 24.0# 460± sx Class C (Circ) 7-7/8" 5-1/2" J-55 17.0# 49001 1000± sx Class C Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones. Run 2-7/8" tubing to perforations and treat formation with 15% HCL.

formation and test to tanks.

GNED JERRY W.	M. Jong	Permit Agent	DATE 1/19/93
This space for Federal or St	tate office use)		
ERMIT NO.		APPROVAL DATE	·
pplication approval does not warrant ONDITIONS OF APPROVAL, IF ANY:		al or equitable title to those rights in the subject lease w	which would entitle the applicant to conduct operation

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	ORRO PETROLE	UM COMPANY	Lease	H.E. WES	T "B"		Well No. 68
Unit Letter	Section	Township	Range			County	
Actual Footage Loc	10	17 SOUTH	<u>. </u>	31 EAST	NMPM		EDDY
4775	from the SOU	JTH line and	1335		_feet from	the EAS	T line
Ground Level Elev.	. Producing For	mation	Pool	-h., -1			Dedicated Acreage:
3912.8'		rg-San Andres	<u> </u>	burg-Jach			40 Acres
2. If more than Single 3. If more than	one lease is dedica e Lease	the subject well by colored p ted to the well, outline each ent ownership is dedicated to If answer is "yes" type o	and identify	the ownership th	ereof (both	as to working	
		d tract descriptions which h	ave actually	been consolidated	d. (Use reve	rse side of	
this form necess No allowable w		the well unit all interest	s have been	consolidated (b	y commun	itization, u	nitization, forced-pooling,
		d unit, eliminating such in				on.	
	· ·					OPERAT	OR CERTIFICATION
						Signature Signature Frinted Nan JERRY Position Permi Company SOCORRO Date 1/1 SURVEY I hereby certification this plate actual survey supervisors of the survey supervisors of	<i>i i i i</i>
	+ 		3913.7°	3915.7 		Date Survey JAN Signature & Professions	UARY 5, 1992 R Seal of all Surveyor
0 330 680	990 1320 1650	1980 2310 2640 20	00 1500	1000 500		Cercityase	**************************************

UNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on

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

	DEPARTMENT	OF THE INTE	מסום		•	Dapires. December 51, 1991
	DEFARTMENT	OF THE INTE	KIUK		ĺ	5. LEASE DESIGNATION AND SERIAL NO.
	BUREAU OF L	AND MANAGEME	NT			LC 029426-B
APPLIC	CATION FOR PE	RMIT TO DRIL	L OR DEE	PEN		6. IF INDIAN, ALLOTTER OR TRIBE NAME
a, TYPE OF WORK						
DRIL	L X	DEEPEN 🗌				7. UNIT ACREEMENT NAME
b. TYPE OF WELL						Keel-West Waterflood
OIL X OAS	LL OTHER IN-		SINGLE X	MULTIPLE ZONE	. 🗆	8. FARM OR LEASE NAME, WELL NO.
NAME OF OPERATOR			Ph.505-677	-3223		H.E. West "B" No.69
	OCORRO PETROLEU	M COMPANY				9. API WELL NO.
. ADDRESS AND TELEPHONE NO. 1	2.0. Box 37					
	Loco Hills, New	Mexico 88255				10. FIELD AND POOL, OR WILDCAT
	port location clearly and i		State requiremen	ts.*)		Grayburg-Jackson Pool
1470'FSL, 255	0'FEL, Sec.10,	T.17S., R.311	Ε.	(Unit	J)	11. SEC., T., B., M., OR BLE. AND SURVEY OR AREA
At proposed prod. zone	Same			(NWSE)	Sec.10, T.17S., R.31E.
14. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POST OFF	ICE*			12. COUNTY OR PARISH 13. STATE
	northeast of L	oco Hills, Ne	w Mexico			Eddy N.M.
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST		16.	NO. OF ACRES IN	LEASE		OF ACRES ASSIGNED THIS WELL
PROPERTY OR LEASE LI (Also to nearest drig	INE, FT. . unit line. if any)	1335'	1919.88 Ac	. 1		40
18. DISTANCE FROM PROPO	OSED LOCATION®	19.	PROPOSED DEPTH		20. ROT.	ARY OR CABLE TOOLS
TO NEAREST WELL, DE OR APPLIED FOR, ON THI		933'±	4900'		Ro	otary
21. ELEVATIONS (Show whe	ther DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*
3911.3' GL						As Soon As Possible
23.		PROPOSED CASING A	ND CEMENTING	PROGRAM	i	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING D	EPTH		QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55	24.0#	560'		460)± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#	4900'		1000)± sx Class C

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

JERRY W. LONG	Permit Agent	DATE 1/22/93
This space for Federal or State office use)	APPROVAL DATE	
plication approval does not warrant or certify that the applic NDITIONS OF APPROVAL, IF ANY:	ant holds legal or equitable title to those rights in the subject lease	which would entitle the applicant to conduct operation

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

Operator SOC	ORRO PETROLE	JM COMPANY	Lease	H.E. WES	т "в"		Well No.
Unit Letter	Section	Township	Range			County	
J	10	17 SOUTH		31 EAST	NMPM		EDDY
Actual Footage Loc	ation of Well:						
	t from the SOL		2550		feet from	the EAS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Ground Level Elev			Pool	_ ,	_	,	Dedicated Acreage:
3911.3'		rg-San Andres		urg-Jack		0.1	40 Acres
1. Outline the ac	creage dedicated to	the subject well by colored po	encil or hachu	re marks on th	e plat below.		
Single	Lease	ted to the well, outline each	the well, have	e the interest o			
Yes	∐ No	If answer is "yes" type of	consolidation	NA_			
		d tract descriptions which h	ave actually b	een consolidate	d. (Use reve	rse side of	
this form necess		the well unit all interests	have been	consolidated ()	ov commun	itization, ur	nitization forced-nooling
	_	d unit, eliminating such in			-		, , , , , , , , , , , , , , , , , , , ,
						OPERAT	OR CERTIFICATION
	i		1				
	1		j		. 11		by certify the the information in is true and complete to the
,	l 1					best of my kn.	owledge and belief.
	!		1]].	<u> </u>	
	l		İ			Signature	1/2/
	I		i			Printed Nam	
	1		i			JERRY	W. LONG
	+		+		F	Position	y. HONG V
	ĺ		ļ				Agent
	i		!			Company	
	İ					SOCORRO	PETROLEUM CO.
	Ì		1			Date	
	j g					1/2	22/93
	. [•		CIIDVEV	OR CERTIFICATION
	ļ		1			SURVEI	OR CERTIFICATION
		<u> </u>	<u> </u>			I hereby certij	y that the well location shown
	1		j		1 1		vas plotted from field notes of
							made by me or under my nd that the same is true and
	İ		\ <u>.</u> =		1 1		he best of my knowledge and
	1		; <u> </u>			belief.	
	1	3908.0	<u> </u> -			Date Survey	red
	i .		2 5 5	:01		JAN	UARY 5, 1992
L						Signature &	
	i	3907.2' 3904.9'	1			Professiona	Surveyor
	1 1		i				STATE AND ADDRESS OF THE PARTY
	i 1		{				CARY LOW
	 	1470) of	A STATE OF THE STA
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0 330 660	990 1320 1650	1980 2310 2640 200	0 1500	1000 500	-	1	and the state of t
		1000 2010 2040 200	70 1500	1000 500		9	2-14-2045
							The state of the s

UNITED STATES

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.

Budget Bureau No. 1004-0136 Expires: December 31, 1991

	DEPARTMENT	Or int in	HERI	IUR		ľ	5. LEASE DESIGNATION	ND BERIAL NO.
	BUREAU OF L	AND MANAGI	EMENT	Γ			LC 029426-B	
APPLIC	CATION FOR PE	RMIT TO D	RILL	OR DEE	PEN		6. IF INDIAN, ALLOTTED	OR TRIBE NAME
a. TIPE OF WORK	L X	DEEPEN [1				7. UNIT ACREEMENT NA	*1
b. TYPE OF WELL	•	DELI LIN L					Keel-West Wat	Project
7	LL OTHER IN-	-FILL WELL	ZON	CLE X	MULTIPLI ZONE	. 🗆	8. FARM OR LEASE NAME, WEL	L NO.
2. NAME OF OPERATOR			P	h.505-677	7-3223		H.E. West "B"	No.70
	SOCORRO PETROLEU	M COMPANY					9. API WELL NO.	
3. ADDRESS AND TELEPHONE HO.]	P.O. Box 37							
]	Loco Hills, New	Mexico 882	5.5				10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (Re	port location clearly and i	n accordance with	h any St	ate requiremen	ts.*)		Grayburg-Jack	son Pool
1410'FSL, 130 At proposed prod. zone	5'FWL, Sec.10,	T.17S., R.	.31E.		(Unit (NWSW		11. BEC., T., R., M., OR I AND SURVEY OR AR	BLK.
	Same			ř	(5	•	Sec.10, T.17S	., R.31E.
14. DISTANCE IN MILES A	NO DIRECTION FROM NEARI	ST TOWN OR POST	OFFICE	•			12. COUNTY OR PARISH	13. STATE
6.7 Air miles	northeast of Lo	oco Hills,	New 1	Mexico			Eddy	N.M.
15. DISTANCE FROM PROPO LOCATION TO NEAREST			16. NO.	. OF ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE L (Also to nearest drig	. unit line, if any) L	335'		919.88 Ac	·		40	
18. DISTANCE FROM PROP TO NEAREST WELL, DE			19. PR	OPOSED DEPTH		20. ROTA	RY OR CABLE TOOLS	
OR APPLIED FOR, ON THE		933 ' ±	49	900'		Ro	tary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)						22. APPROX. DATE WO	BE WILL START
3898.9' GL							As Soon As	Possible
23.		PROPOSED CASI	NG AND	CEMENTING	PROGRAM	4		
SIZE OF HOLE	GRADE, SIZE OF CASINO	WEIGHT PER P	00T	SETTING D	EPTH		QUANTITY OF CEME	NT
12-1/4"	8-5/8" J-55	24.0#		560'		460	± sx Class C (Circ)
7-7/8"	5-1/2" J-55	17.0#		4900'		1000	± sx Class C	

Propose to drill to about 4900' and complete as an in-fill non-standard Grayburg producer. State approval of the unorthodox location is pending. Set 5-1/2" production casing to TD, cemented with sufficient cement to isolate porous zones. Selectively perforate favorable Grayburg zones.

Run 2-7/8" tubing to perforations and treat formation with 15% HCL. Sand-frac formation and test to tanks.

SIGNED JERE	ry //. Vauce	Permit Agent	DATE 1/25/93
	eral or State office use)	APPROVAL DATE	
Application approval does CONDITIONS OF APPROVA		legal or equitable title to those rights in the subject lease v	which would entitle the applicant to conduct operations

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 All Distances must be from the outer boundaries of the section Well No. Operator SOCORRO PETROLEUM COMPANY H.E. WEST "B" 70 Unit Letter Section County 17 SOUTH **EDDY** 10 31 EAST NMPM Actual Footage Location of Well: 1410 SOUTH 1305 WEST feet from the line feet from the Producing Formation Pool Dedicated Acreage: Ground Level Elev. 3898.91 Grayburg-San Andres Grayburg-Jackson Pool 40 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). Single Lease 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation No 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 1 hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Printed Nam ÍERRY LONG Position Permit Agent Company SOCORRO PETROLEUM COMPANY 1/25/93 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 3894.21 3897.11 JANUARY 5, 1992 1305 Signature & Seal of Professional Surveyor 3899.51 3895.81 660 990 1320 1650 1980 2310 2640 1500 1000 500

APPROVED BY

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE. (Other instructions on reverse side)

Form approved. Budget Bureau No. 1004-0136

Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTED OR TRIBE NAME

LC 029426-B

	CATION F	URPE	RMIT TO D	HILL	OH DE	CPEN		6. IF INDIAN, ALLOTTEE	
A. TYPE OF WORK DRII D. TYPE OF WELL	LL X		DEEPEN [-	7. UNIT LOBERTHENT NA Keel-West Wat	
OIL Y OA	s C	THER IN-	-FILL WELL	81N 20h	CLE X	MULTIPLI Zone		8. FARM OR LEASE NAME, WEL	Project
NAME OF OPERATOR		JINER				77-3223		H.E. West "B'	No. 71
:	SOCORRO PI	ETROLEU	M COMPANY	-		77 3223	-	9. AM WELL NO.	
ADDRESS AND TELEPHONE NO.	P.O. Box	37							
			Mexico 882	55			-	10. FIELD AND POOL, O	R WILDCAT
LOCATION OF WELL (Re	eport location c	learly and i	n accordance wit	h any St	ate requirem	nents.*)		Grayburg-Jac	son Pool
1335'FSL, 15	'FEL. Sec	а.9. Т.	17S R.31	Ε.		(Unit	- I)	11. SEC., T., B., M., OR I AND SURVEY OR AS	BLE.
At proposed prod. zon						(NESI	· 1		
						(Sec.9, T.179	
. DISTANCE IN MILES	AND DIBECTION	FROM NEAR	EST TOWN OR POS	r office	•			12. COUNTY OR PARISH	13. STATE
6.7 Air mile		st of L	oco Hills,					Eddy	N.M.
5. DISTANCE FROM PROPU LOCATION TO NEAREST	r		!	16. NO.	OF ACRES I	IN LEASE		P ACRES ASSIGNED IS WELL	
PROPERTY OR LEASE L (Also to nearest drig	.IN E, FT. z. unit line, if a	iny) 1	.335'	19	919.88 A	Ac.		40	
S. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATIONS	ETED.		19. PR	POSED DEPT	Н	20. ROTAR	Y OR CABLE TOOLS	
OR APPLIED FOR, ON TH			933'±	49	900'		Rot	ary	
I. ELEVATIONS (Show wh	ether DF, RT, C	IR, etc.)						22. APPROX. DATE WO	EK WILL START*
3885.4' GL					<u>-</u>			As Soon As	Possible
3.			PROPOSED CAS	ING AND	CEMENTIN	NG PROGRAM	4		
SIZE OF HOLE	GRADE, SIZE O	F CASINO	WEIGHT PER P	оот	SETTIN	G DEPTH	1	QUANTITY OF CEME	NT
12-1/4"	8-5/8"	J-55.	24.0#		560	0'	460±	sx Class C (Circ)
12-1/4" 7-7/8"	8-5/8" 5-1/2"	J-55. J-55	24.0# 17.0#		560 4900				Circ)
Propose to producer. production Selective: Run 2-7/8' formation See attacl	5-1/2" o drill to State and casing to ly perform tubing and test thed Drill.	J-55 about pproval to TD, ate fav to perf to tan ing Dat	17.0# 4900' and of the un cemented worable Grations a ks. a and Surf	ortho ith s yburg nd tr	lete as dox local ufficient zones. eat forms	an in-fation is nt cemen mation w	ill none pending to to is	n-standard Grang. Set 5-1/2 solate porous HCL. Sand-f	yburg " zones.
7-7/8" Propose to producer. production Selective: Run 2-7/8" formation See attacl	o drill to State and casing to ly perform and test thed Drill be PROPOSED Princent data on subsection of the performance of the	J-55 about pproval to TD, ate fav to perf to tan ing Dat	17.0# 4900' and of the uncemented worable Gradions aks. a and Surf	ortho ith s yburg nd tr ace U	lete as dox local ufficient zones. eat forms	an in-fation is nt cemen mation w	ill none pending to to is	n-standard Grang. Set 5-1/2 solate porous HCL. Sand-f	yburg " zones.
Propose to producer. production Selective: Run 2-7/8' formation See attacl IN ABOVE SPACE DESCRI deepen directionally, give per 24.	o drill to State and casing to ly perform and test thed Drill be PROPOSED Princent data on subsection of the performance of the	J-55 about oproval to TD, ate fav to tan ing Dat	17.0# 4900' and of the uncemented worable Gradions aks. a and Surf	ortho ith s yburg nd tr ace U	4900 lete as dox loc ufficie zones. eat for se Plan	an in-fation is nt cemen mation w	ill none pending to to is	n-standard Grang. Set 5-1/2 solate porous HCL. Sand-f	yburg " zones. rac proposal is to drill

_ DATE _

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

(A				Tango				Well No
Operator SOCORRO PETROLEUM COMPANY				H.E. WEST "B"			Well No.	
Unit Letter Sect	Section Township		Range	i		County	·	
<u> </u>	9 17 SOUTH		<u> </u>	31 EAST	NMPM		EDDY	
Actual Footage Location 1335 feet from	00	UTH line and		15		feet from	the EAS	T _{line}
Ground Level Elev.	Producing Fo			Pool		reet iron	ше — 1-	Dedicated Acreage:
3885.4'	Graybu:	rg-San And	dres	Gra	yburg-Jac	kson P	ool	40 Acres
1. Outline the acreage	dedicated to	the subject well h	by colored p	encil or hach	ure 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). Single Lease								
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.?								
Yes No If answer is "yes" type of consolidation NA								
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.								
					T		OPERAT	TOR CERTIFICATION
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]				} !	1	Signature	4 J.
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					<u> </u>		JERRY	1
					 		Position / Permi	t Agent
	1 .				 -		Company	<u> </u>
	J j				!. 		SOCORRO Date	PETROLEUM CO.
	i							26/93
·	1					1	SURVEY	OR CERTIFICATION
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						<u></u>	-	fy that the well location shown
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					Ĭ			s made by me or under my and that the same is true and
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3887	.0'3892.4	£2 \			38	87.0 38	92.4 JAN	UARY 5, 1992
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