District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Departn.

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-101 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

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AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

		¹ Oper	ator name an	d Address				()the	2 OG	RID Number
ARCO PERMIA	N									000990
P.O.BOX 161	0									PI Number
MIDLAND, TX	79702								30-0 15	-22417
	perty Code				5	Property Name				6 Well No.
22	954				WASHI	IGTON 33	STATE			29
····					⁷ Surface I					
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from t	he North/S	outh Line	Feet from the	East/West line	County
р	33	175	28E		1050) <u>s</u>	OUTH	250	EAST	EDDY
		8	Proposed	Bottom	Hole Locati	on If Differ	ent Fron	n Surface		
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	the North/S	South Line	Feet from the	East/West line	County
	I	9 Proposed F		<u> </u>		I		¹⁰ Proposed Po	L	
		ARTESIA (3	230					
r=										
¹¹ Work T	ype Code	12	Well Type C	ode	13 Cable/	Rotary	¹⁴ Lea	ase Type Code	¹⁵ Ground	Level Elevation
	R		0			२		S		3659
¹⁶ Mul	tiple	17	Proposed De	pth	¹⁸ Form	ation	19	Contractor	20 S	pud Date
	NO		3200		SAN A	NDRES		HONDO	3	-22-78
				²¹ Propo	sed Casing		Program			
Hole S	ize	Casir	ıg Size	Y	weight/foot	Setting D		Sacks of Cemer	nt Es	stimated TOC
11		8-	5/8		24#	600		300		SURF
7-7/	/8	5-	1/2	ļ	15.5	6378	3	1080		SURF
ļ					• • • • • • • • • • • • • • • • • • •					
²² Describe the p Describe the blow	proposed pro vout prevent	gram. If this a ion program, i	pplication is f any. Use a	to DEEPEN iditional she	f or PLUG BAC	K give the data	on the pres	ent productive zone	and proposed ne	w productive zone.
TD @ 6378	TEST	ED ABO @ (T ON CIBP	5140-6250 0 6144	". TA'D RUN CNL	PIRE AB() UN W/CIBP @ 6 GAMMA RAY DED.	144' 1-11-	96. PR(DPOSE ANDRES		
			NS	۷ -	9151	3				
²³ I hereby certify of my knowledge	y that the inf	ormation given	above is tru	e and compl	lete to the t est		OILC	ONSERVATI	ON DIVISIO	N
Signature:	fair	ù Ch	my			Approved by:	Je	n W.	hem	BGR
Printed name:	AURIE CH	ERRY		<u>ک</u>		Title:	Ø	itits	Sesurison	<u>ر</u>
Title: REG./COMP. ASST.				Approval Date: 7-7-98 Expiration Date: 7-7-99						

DISPRICT I P.O. Box 1880, Hobbs, NM 88241-1980

DISTRICT II P.O. prawer DD. Artesia, NM 88211-0719

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

DISTRICT IV

P.O. BOX 2088, SANTA FE. N.M. 87504-2088

Energy, Minerals and Natural Resources Depart

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-01		2417]	Pool Code		ARTESIA		Pool Name)		
Property C 2295	54			WASH	Property N	lame			Well Num 29	aber	
OGRID No				A	Operator N ARC() PERN				Elevatio 3659	Elevation 3659	
					Surface Lo	ocation			1		
UL or lot No. P	Section 33	Township 17 S	Range 28 E	Lot Idn	Fee: from the 1.050	e North/South II. South	ne F	eet from the 250	East/West line	County EDDY	
Bottom Hole Location If Different From Surface											
UL or lot No.	Section	Township	Range	Lot Idn	Fee: from the			eet from the	East/West line	County	
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.				l	<u></u>	
	WABLE W					UNTIL ALL IN' N APPROVED B			SEN CONSOLIDA	ATED	
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	+	٥١٥		•4		0Z		Signature	in Cher	<u>n</u>	
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04		o 10		012		014		Date SURVEY	DR CERTIFICAT	TION	
	021		19		. 17	١٤	0	on this plat w actual surveys supervison, an	that the well locat as plotted from field made by me or id that the same is e best of my belie	t notes of under my true and	
022		031		1 ⁸		o ¹⁶		Date Surveye Signature \& Professionel	RCH 3, 1998	DMCC	
	013	00	K.	021		30 21	\$	Aprill	MET, 21 2300000000000000000000000000000000000	5-4-98	
o 24		• 210	,	• 28					CO. ROMALD EIDSO CARY EDSON FESHADON TICDONAL	ON 3239 12641 D 12185	

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								ERSHEET	
•			ERSHEET IS MANDATO	DRY FOR ALL AL	DMINISTRATIVE AP	PLICATIONS FOI	R EXCEPTIONS TO	DIVISION RULES AN	D REGULATIONS
Аррис	cation Ac	[DHC] [F	NSP-Nor] DD] Downhole Commo PC-Pool Commin [WFX-Wate]	-Directiona ningling] gling] [O rflood Expa Salt Water	LS - On-Leas ansion] [PM Disposal] [SD-Simultar Comminglin e Storage] IX-Pressure IPI-Injection	neous Dedic: g] [PLC-Pc [OLM-Off-L Maintenance Pressure In	ation] ool/Lease Comr ease Measuren e Expansion] crease]	nent]
[1]	ТҮРЕ	E OF A [A]	PPLICATION Location - S NSL	N - Check pacing Ur ⊐ NSP	Those V/hi nit - Directic DD	ch Apply f onal Drillin ロ SD	for [A] ag		RECEIVED OCD - ARTESIA
		Chec} [B]	Cone Only for Comminglin			ement	🗅 ols	□ OLM	-
		[C]	Injection - D	isposal - I] PMX	Pressure Inc	rease - Enl D IPI	nanced Oil DEOR	Recovery PPR	
.]	NOTI	FICAT [A]	TION REQUE	RED TO: Royalty o	- Check Th or Overridin	ose Which g Royalty 1	n Apply, or Interest Ow	Does Not Does Not	Apply
		[B]	Offset Op	erators, Lo	easeholders	or Surface	Owner		
		[C]	□ Applicatio	on is One `	Which Requ	iires Publis	shed Legal	Notice	
		[D]	D Notificatio	on and/or au of Land Mar	Concurrent nagement - Comm	Approval l	DY BLM OR Ic Lands, State La	SLO and Office	
		[E]	G For all of t	the above,	, Proof of N	otification	or Publicat	ion is Attache	ed, and/or,

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

LAURIE CHERRY Print or Type Name	Janine (herex	REG	Comp. Asst.
	Signature	$\mathcal{O}^{}$	Title 7	

6	16	99
Dat	e	i

Geologic and Engineering Discussion for Washington 33 State #29 Unit P of Section 33, T17S, R28E, Eddy County, New Mexico

ARCO Permian requests administrative approval for unorthodox location for Washington 33 State #29 and #30 in the Artesia (Q-G-SA) Field, both as recompletions of wells drilled to a deeper horizon. Both wellbores are required for geologic reasons, and will be simultaneously dedicated to Unit Letter P of Section 33.

ARCO will require 2 strategically spaced wellspots in each 40-acre tract to recover reserves in the Artesia pool. Wherever possible, our well pattern dictates a wellbore in the NE quadrant and SW quadrant of each 40 acres. Recompletion of these Empire (Abo) wellbores, which are 949 ft. apart, will prevent wasteful drilling, even though #30 is "off-patterns".

At a future date, we anticipate a waterflood could be initiated to effectively sweep both dolomite and sand reservoirs. Optimum results can only be achieved with good spacing of the primary wells. Core results show the Queen-Grayburg-San Andres "sand" pays should yield 130 MBO per 40 acres, but the modest 35 MBO recovered from "sand" wells on and surrounding our lease indicates that 10-20 acre drainage for these pays is reasonable.

We have therefore determined that two wells per 40 acres will effectively drain this reservoir and protect correlative rights. Where inexpensive recompletions are available, 700 ft. between wells will avoid wasteful drilling. "Ten-acre" locations in the same half of any 40-acre unit should be avoided until waterflood startup. With current technology, the drainage radius for these San Andres wells is probably 10 acres, so we do not expect to be affecting any offset owner's correlative rights with these unorthodox locations.

June 16, 1998

Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

Gentlemen:

Under the provisions of NMOCD Rule 104.F(d), ARCO Permian requests administrative approval for unorthodox location for its Washington "33" State #29, a recompletion of a previously drilled well in the Empire Abo Unit, to the Artesia (Queen-Grayburg-San Andres) Field. The location for this well, formerly known as the EAU #H-321 is1050'FSL and 250'FEL of Section 33, T17S, R28E, Eddy County, New Mexico. This well was drilled at an approved unorthodox location for the original horizon.

As required, we are submitting a plat showing the subject 40-acre spacing unit with the unorthodox location, a map identifying the adjoining and diagonal encroached-upon leases and wells, and a list of affected parties.

Should you have any questions, please do not hesitate to call Dave Pearcy at 915-688-5355. Thank you for your assistance in this matter.

Sincerely,

Laurie Cherry

Regulatory/Compliance Assistant

:lc

cc: NMOCD, Artesia, New Mexico

STATE OF TEXAS

COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Laurie Cherry, a Regulatory Compliance Assistant with ARCO Permian, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list has been sent a copy on June 16, 1998. Oil Conservation Division Form C-101 (and supporting documentation) entitled, "Application For Permit to Drill or Deepen" for the Washington "33" State #29.

ARCO Permian

here he (Laurie Cherry

SUBSCRIBED AND SWORN T() before me on June 16, 1998, to certify which witness my hand and seal of office.

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LEIGH ANN LANE Notary Public, State of Texas My Commission Expires: 12-12-2000



June 16, 1998

CERTIFIED RETURN RECEIPT MAIL

Bulldog Energy Corp P. O. Box 668 Artesia, New Mexico 88210

Ladies and Gentlemen:

This letter will serve as notice that ARCO Permian has requested administrative approval from the NMOCD for an unorthodox location for Washington "33" State 29 under Rule 104.F. (3), due to geological conditions. It is a recompletion of a previously drilled well in the Empire Abo Unit, to the Artesia (Queen-Grayburg-San Andres) Field. The location for this well, formerly known as the EAU #H-321 is 1050'FSL and 250'FEL of Section 33, T17S, R28E, Eddy County, New Mexico.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the unorthodox location if no objection to the unorthodox location has been made within 20 days after the application has been received.

Sincerely,

Cherry m

Laurie Cherry Regulatory/Compliance Assistant

:lc



June 16, 1998

CERTIFIED RETURN RECEIPT MAIL

Marbob Energy Corp P. O. Box 227 Artesia, New Mexico 88211

Ladies and Gentlemen:

This letter will serve as notice that ARCO Permian has requested administrative approval from the NMOCD for an unorthodox location for Washington "33" State 29 under Rule 104.F. (3), due to geological conditions. It is a recompletion of a previously drilled well in the Empire Abo Unit, to the Artesia (Queen-Grayburg-San Andres) Field. The location for this well, formerly known as the EAU #H-321 is 1050'FSL and 250'FEL of Section 33, T1'/S, R28E, Eddy County, New Mexico.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the unorthodox location if no objection to the unorthodox location has been made within 20 days after the application has been received.

Sincerely,

Merry Laurie Cherry

Regulatory/Compliance Assistant

:lc



June 16, 1998

CERTIFIED RETURN RECEIPT MAIL

Mack Chase, Trustee P. O. Box 1767 Artesia, New Mexico 88211

Ladies and Gentlemen:

This letter will serve as notice that ARCO Permian has requested administrative approval from the NMOCD for an unorthodox location for Washington "33" State 29 under Rule 104.F. (3), due to geological conditions. It is a recompletion of a previously drilled well in the Empire Abo Unit, to the Artesia (Queen-Grayburg-San Andres) Field. The location for this well, formerly known as the EAU #H-321 is 1050'FSL and 250'FEL of Section 33, T1'IS, R28E, Eddy County, New Mexico.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the unorthodox location if no objection to the unorthodox location has been made within 20 days after the application has been received.

Sincerely,

urie Cherry Laurie Cherry

Regulatory/Compliance Assistant

:lc



June 16, 1998

CERTIFIED RETURN RECEIPT MAIL

SDX Resources, Inc. P. O. Box 5061 Midland, Texas 79704

Ladies and Gentlemen:

This letter will serve as notice that ARCO Permian has requested administrative approval from the NMOCD for an unorthodox location for Washington "33" State 29 under Rule 104.F. (3), due to geological conditions. It is a recompletion of a previously drilled well in the Empire Abo Unit, to the Artesia (Queen-Grayburg-San Andres) Field. The location for this well, formerly known as the EAU #H-321 is 1050'FSL and 250'FEL of Section 33, T17'S, R28E, Eddy County, New Mexico.

Should your company have any objection, it must be filed in writing within twenty (20) days from the date of this notice. The Division Director may approve the unorthodox location if no objection to the unorthodox location has been made within 20 days after the application has been received.

Sincerely,

auric Cherry

Laurie Cherry Regulatory/Compliance Assistant

:lc

OFFSET OPERATORS WASHINGTON "33" STATE #29

SDX Resources, Inc. P. O. Box 5061 Midland, Texas 79704

Marbob Energy Corp. P. O. Box 227 Artesia, New Mexico 88211

Mack Chase, Trustee P. O. Box 1767 Artesia, New Mexico 88211

Bulldog Energy Corp. P. O. Box 668 Artesia, New Mexico 88210







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well tested on HAList.

Apro Pornian

EMPIRE ABO Huit Well # H-321



TD 6350 KB 10 Perfs: 6174. 6/84 PB 6221 512 Cary

1-5% CIBP Ruwnig Tool (-2" Seating Nipple 99-2" Tabing 3.00 1.10 6135.79 4.00

CIBP Set @ 6143.89



(505) 392-6498 P.O. BOX 5275 HOBBS, N.M. 88240

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Description				

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