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 Depart

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

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE ² OGRID Number ¹Operator name and Address ARCO PERMIAN 000990 P.O.BOX 1610 ³ API Number MIDLAND, TX 79702 30-015-22827 ⁵ Property Name Well No. ⁴ Property Code WASHINGTON "33" STATE Surface Location Feet from the North/South Line Feet from the East/West line Lot. Idn UL or lot no. Section Township Range County 2250 SOUTH **EAST EDDY** 33 28E Proposed Bottom Hole Location If Different From Surface Lot. Idn Feet from the North/South Line Feet from the East/West line UL or lot no. Section Township Range County Proposed Pool 1 10 Proposed Pool 2 3230 ARTESIA (Q-G-SA) 14 Lease Type Code 15 Ground Level Elevation 11 Work Type Code 12 Well Type Code 13 Cable/Rotary 3662 18 Formation 19 Contractor 20 Spud Date 17 Proposed Depth 3200 SAN ANDRES X-PFRT 3/1/79 NΩ ²¹ Proposed Casing and Cement Program Hole Size Casing weight/foot Setting Depth Sacks of Cement Estimated TOC Casing Size 11 775 700 SURE. 8-5/8 24# 7-7/8 5-1/2 15_5 6370 1500 SURE ²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary ORIGINALLY DRILLED AND COMPLETED AS THE EMPIRE ABO UNIT G-324 IN 1979. TD @ 6370'. TESTED ABO @ 6252-6262'. PERFS @ 6002-6206' ADDED IN 1996. PERF 6002-6262 SQUEEZE AND ADD PERFS 5725-5782' TESTED IN 1998. PROPOSED TO ABANDON THE ABO AND TEST THE QUUEN, GRAYBURG AND SAN ANDRES. DUMP 35' CEMENT ON CIBP @5675'. RUN CNL, GAMMA RAY, AND PERF THE Q-G-SA AS INDICATED BY LOG AND FRAC. NSL-4060 6-19-98 ²³ I hereby certify that the information given above is true and complete to the best OIL CONSERVATION DIVISION of my knowledge and belief. Approved by: Signature: Lines like PA Westreet Supervisor Title: Printed name: LAURIE CHERRY Approval Date: Expiration Date: Title: REG./COMP. ASST.

State of New Mexico

Energy, Minerals and Natural Resources Depai

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

DISTRICT III

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Pool Name 30-015-22822 Property Code Property Name Well Number WASHINGTON 33 STATE OGRID No. Operator Name Elevation 000990 ARCO PERMIAN 3662 Surface Location

Surface Location

UL or lot No. S	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	33	17 S	28 E		2250	500TH	235	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.	1			<u> </u>

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	P		
. . 5	o ³	0]	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
01 09	04	0Z 0 ¹³	Lawrie Cherry Signature
08	017	014	Date SURVEYOR CERTIFICATION
021	. 17	150->	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 belief.
022 031	19	.16	MARCH 3, 1998 Date Surveyed William DMCC Signature La Stal Copy of the Copy
01 ³	027		Professioner Surveyor Min MEX. N. MEX. Surveyor 5-4-98
. 24	o as	J	Certificate No. RONALD EIDSON 3239 CARNEDSON 12641 CARNEDSON 12641 CARNEDSON 12185

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS **Application Acronyms:** [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling \square NSL □ NSP מת 🗖 Check One Only for [B] or [C] Commingling - Storage - Measurement DHC ☐ CTB ☐ PLC ☐ PC OLS □ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] □ WFX □ PMX □ SWD ☐ IPI ☐ EOR NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \(\sigma\) Does Not Apply .] ☐ Working, Royalty or Overriding Royalty Interest Owners [A]Offset Operators, Leaseholders or Surface Owner [B] Application is One Which Requires Published Legal Notice [C] [D] ☐ Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office ☐ For all of the above, Proof of Notification or Publication is Attached, and/or, E ☐ Waivers are Attached [F] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding [3] 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

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

LAURIE CHERRY Print or Type Name

Sawie Cherry

REG Cour. Asst.

6/10/98 Date



ARCO Permian 600 North Marienfeld Midland TX 79701-4373 PO Box 1610 Midland TX 79702-1610

Telephone 915 688 5200

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 #15, 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 #G-324 is 235'FEL and 2250'FSL 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

Enclosures



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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" State15 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 #G 324 is 235'FEL and 2250'FSL 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,

Laurie Cherry

Regulatory/Compliance Assistant

:lc

Enclosures



ARCO Permian

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Mataria 71, 1973;
Post Office Box 1910
Mediand 7X 70.10,
1.000016 045 051 5.00

June 16, 1998

CERTIFIED RETURN RECEIPT MAIL

Lauretta M. Phillips Estate C/o Leahy & Sheldon Trust P. O. Box 539 Los Olivos, California 93441

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" State15 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 #G 324 is 235'FEL and 2250'FSL 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,

Laurie Cherry

Regulatory/Compliance Assistant

Murie Cherry

:lc

Enclosures

OFFSET OPERATORS WASHINGTON "33" STATE #15

Lauretta M. Phillips Estate C/o Leahy & Sheldon Trust P. O. Box 539 Los Olivos, California 93441

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

Geologic and Engineering Discussion for Washington 33 State #15 Unit I of Section 33, T17S, R28E, Eddy County, New Mexico

ARCO Permian requests administrative approval for unorthodox location for Washington 33 State #15 and #16 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 I 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 882 ft. apart, will prevent wasteful drilling.

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, with 700 ft. minimum between wells, will effectively drain this reservoir and protect correlative rights. Where inexpensive recompletions are available, 550 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.

STATE OF TEXAS

COUNTY OF MIDLAND

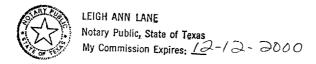
BEFORE ME, the undersigned authority on this day personally appeared Laurie Cherry, a Regulatory Compliance Assistant with ARCO Permian, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list has been sent a copy on June 16, 1998, Oil Conservation Division Form C-101 (and supporting documentation) entitled, "Application For Permit to Drill or Deepen" for the Washington "33" State #15.

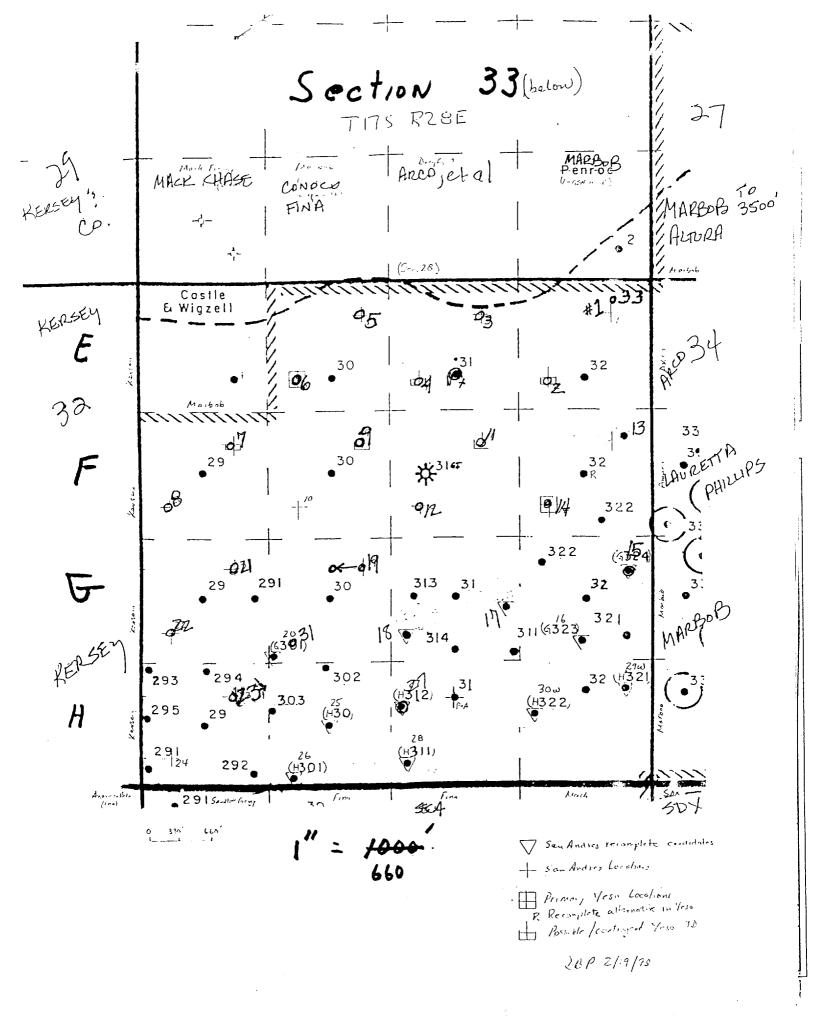
ARCO Permian

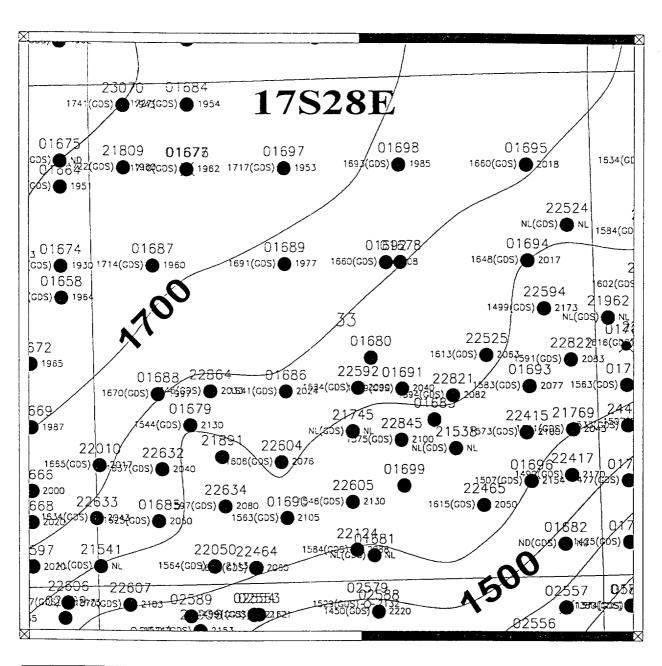
Laurie Cherry

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

NOTARY PUBLIC, STATE OF TEXAS







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