MERIDIAN OIL



Le. 6/18/93

June 17, 1993

Sent Federal Express

Mr. William LeMay New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Meridian Oil Inc. San Juan 29-4 Unit #200 1990'FSL, 1850'FWL Section 30, T-29-N, R-4-W Rio Arriba County, New Mexico

Dear Mr. LeMay:

Meridian Oil Inc. is applying for administrative approval of a non-standard location for the above location in the Pictured Cliffs formation. This application for the referenced location is due to terrain as shown on the topographic map and at the request of the U.S. Forest Service to locate the well on the pad of the plugged and abandoned San Juan 29-4 Unit #1.

This well is planned as a Basin Fruitland Coal/Gobernador Pictured Cliffs commingle and application will be made to the New Mexico Oil Conservation Division for the commingling.

The following attachments are for your review:

- 1. Application for Permit to Drill.
- 2. Completed C-102 at referenced location.
- 3. Offset operators/owners plat and affadavit of notification.
- 4. 7.5 minute topographic map showing the orthodox windows for the southwest quarter dedication and enlargement of the map to define topographic features.
- 5. If the well were directionally drilled to a standard bottom hole location, the economics would be severely burdened due to the incremental directional drilling costs of \$200,000.

A copy of this application is being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, and return one copy to this office.

Sincerely Valued laber S Peggy Bradfield

Regulatory/Compliance Representative

encs.

WAIVER

hereby waives objection to Meridian Oil Inc.'s application for a nonstandard location and non-standard proration unit for their San Juan 29-4 Unit #200 as proposed. By: _____ Date: _____

xc: Schalk Development Co., PO Box 25825, Albuquerque, NM 87125
 Phillips Petroleum, 5525 Highway 64, NBU 3004, Farmington, NM 87401

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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	APPLICATION FOR PERMIT	TO DRILL, DEEPEN, OR PLUG BACK
1a.	Type of Work	5. Lease Number
4 L	DRILL	SF-079893A
1b.	Type of Well GAS	6. If Indian, All. or Tribe
2.	Operator	7. Unit Agreement Name
	MERIDIAN OIL	San Juan 29-4 Unit
3.	Address & Phone No. of Operator PO Box 4289, Farmington, NM 8'	8. Farm or Lease Name 7499 San Juan 29-4 Unit
	to box 4209, raimingcon, MM o	9. Well Number
	(505) 326-9700	200
4.	Location of Well	10. Field, Pool, Wildcat
	1990'FSL, 1850'FWL	Basin Fruitland Coal/ Gobernador Pic.Cliffs
	Latitude 36 ⁰ 41' 40", Longitude	11. Sec., Twn, Rge, Mer. 107° 17' 45" Sec 30, T-29-N, R-4-W NMPM NMPM
14.	Distance in Miles from Nearest Town	12. County 13. State
	6 miles from Gobernador, NM	Rio Arriba NM
15.	Distance from Proposed Location to Neares	st Property or Lease Line
16.	Acres in Lease	17. Acres Assigned to Well 318.1 W/2
		158.76 SW/4 Unit K
18.	Distance from Proposed Location to Neares	st Well, Drlg, Compl, or Applied for on this Lease
19.	Proposed Depth 4480'	20. Rotary or Cable Tools Rotary
21.	Elevations (DF, FT, GR, Etc.) 7334 ' GR	22. Approx. Date Work will Start 2nd quarter 1993
23.	Proposed Casing and Cementing Program See Operations Plan attached	
24.	Authorized by: Apalanel	6/4/93
	Regional Drilling E	ngineer Date
PERM	IT NO.	APPROVAL DATE
APPR	OVED BYTI	TLE DATE
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Archaeological Report to be submitted Threatened and Endangered Species Report to be submitted NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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DISTRICT III 1000 Rio Brans Rd., Amer. NM 87410

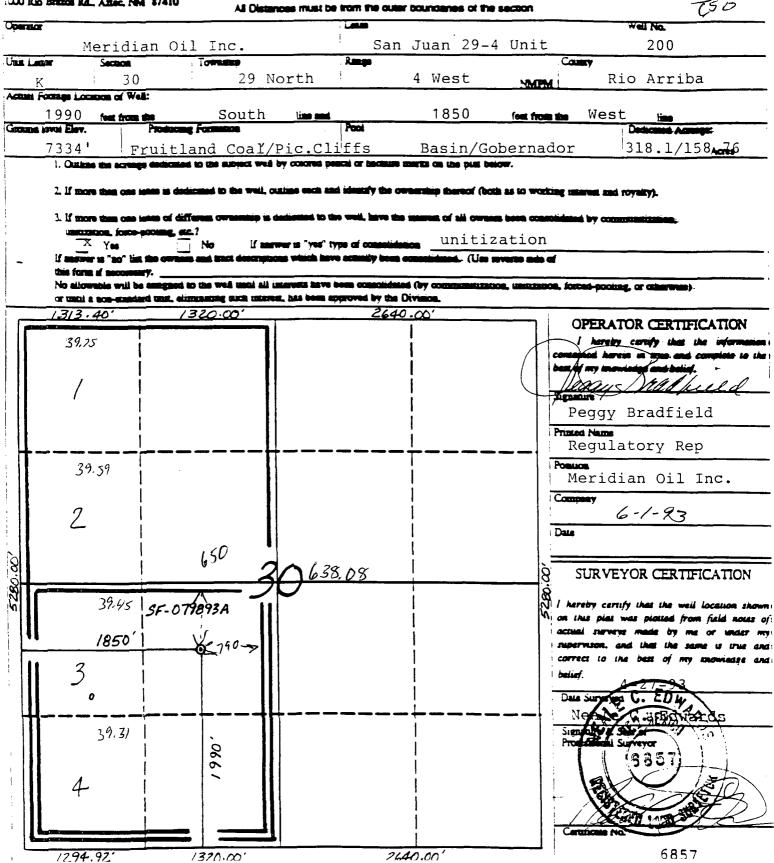
State of New Mexico Energy, Minarais and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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Page 1

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OPERATIONS PLAN

Well Name: San Juan 29-4 Unit #200
Location: 1990'FSL, 1850'FWL Section 30, T-29-N, R-04-W
Rio Arriba County, New Mexico
Latitude 36° 41' 40", Longitude 107° 17' 45"
Formation: Basin Fruitland Coal/Gobernador Pictured Cliffs
Elevation: 7334'GL

Formation:	Тор	Bottom	Contents
Surface	San Jose	3530'	
Ojo Alamo	3530'	3750'	aquifer
Kirtland	3750'	4005'	-
Fruitland	4005'	4195'	
Fruitland Coal Top	4080'	4235'	gas
Pictured Cliffs	4195'	4480'	gas
Total Depth	4480'		-

Logging Program: Mud logs from 4000' to Total Depth. IND, Dens, Neut, GR, ML to TD.

Mud Program:

Interval	Туре	Weight	Vis.	Fluid Loss
0- 200'	Spud		40-50	no control
200-4480'	Non-dispersed	8.4-9.5	30-60	no control

Casing Program:

Hole Size	<u>Depth Interval</u>	Csg.Size	<u>Wt.</u>	Grade
12 1/4" 7 7/8"	0 - 200' 0 - 4480'	8 5/8" 4 1/2"	24.0# 10.5#	
Tubing Program:	0 - 4480'	2 3/8"		J-55

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

4 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Four centralizers run every 3rd joint to the base of the Ojo Alamo @ 3750'. Two turbolizing type centralizers one below and one into the base of the Ojo Alamo @ 3750'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 4 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembly.

Page 2 San Juan 29-4 Unit #200

Cementing:

8 5/8" surface casing - cement with 235 sx Class "B" cement with 1/4# flocele/sx and 3% calcium chloride (298 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hrs. Test casing to 600 psi for 30 minutes.

4 1/2" production casing -

First stage - lead w/83 sx Class "B" 65/35 Poz w/6% gel, 2% calcium chloride, 6.25# gilsonite/sx and 1/4# flocele/sx (146 cu.ft. of slurry), tail w/100 sx Class "B" w/2% calcium chloride, 5#/sx gilsonite, 0.25#/sx celloflake (118 cu.ft.), 100% excess to circulate stage tool @ 3900').

Second stage - lead w/860 sx of Class "B" 65/35 Poz w/6% gel, 2% calcium chloride, 6.25# gilsonite/sx and 1/4# flocele/sx (1525 cu.ft.). Tail w/25 sx Class "B" w/2% calcium chloride (30 cu.ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC. Test casing to 1500 psi/minutes.

BOP and tests:

Surface to TD - 11" 2000 psi (minimum double gate BOP stack (Reference Figure #1 and #2). Prior to drilling out surface casing, test rams to 600#/30 min.

Completion - 6" 2000 psi (minimum) double gate BOP stack (Reference Figure #2). Prior to completion operations, test rams to 3000#/15 min.

From surface to TD - choke manifold (Reference Figure #3).

Pipe rams will be actuated to least once each day and blind rams actuated once each trip to test proper functioning. An upper kelly cock valve with handle and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

Additional information:

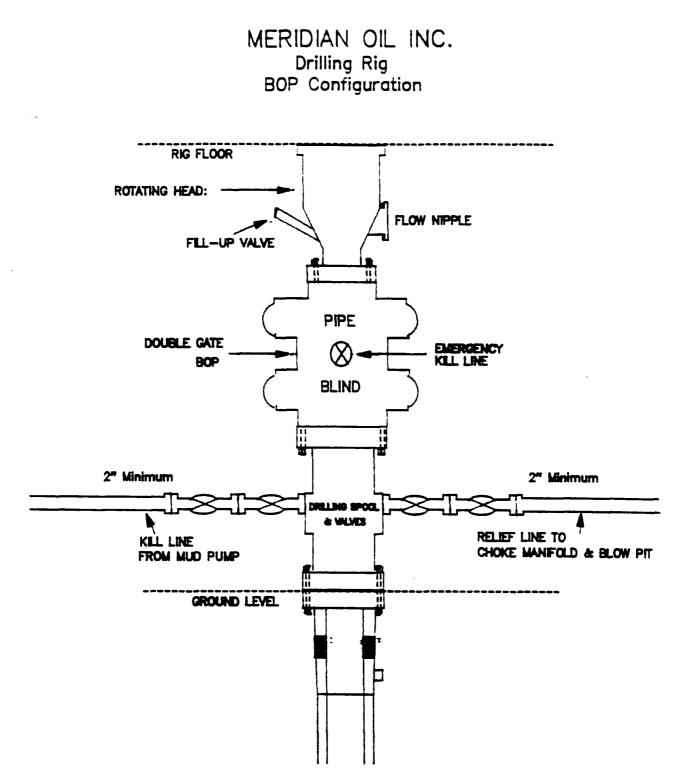
 * The Fruitland Coal and Pictured Cliffs formations will be completed and commingled per New Mexico Oil Conservation Division order.
 * Anticipated pore pressure for the Fruitland is 1150 psi and for the Pictured Cliffs is 1150 psi.

* This gas is dedicated.

* The west half of Section 30 is dedicated to the Fruitland Coal and the southwest quarter of the section is dedicated to the Pictured Cliffs.

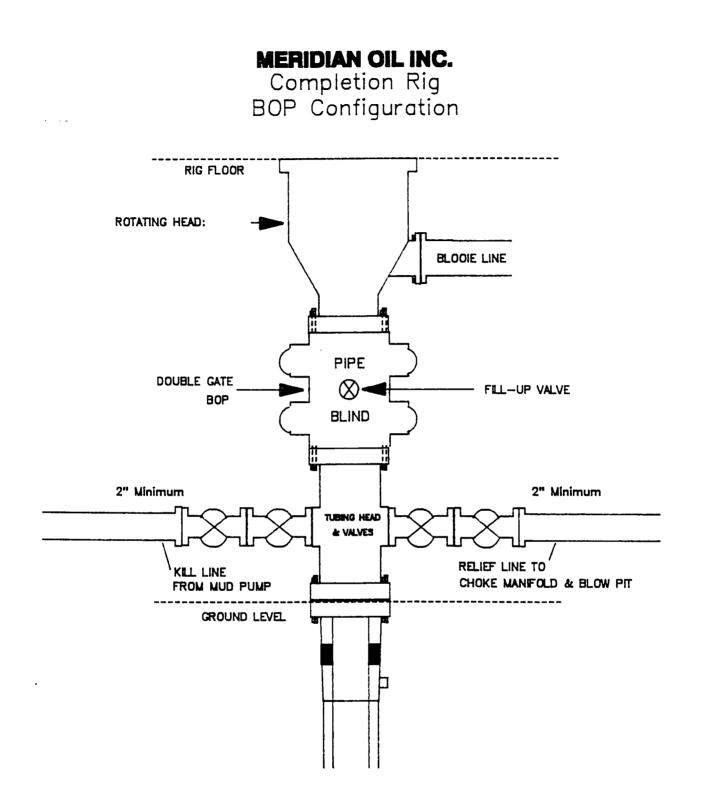
New casing will be utilized.

* Pipe movement (either rotation or reciprocation) will be done if hole conditions permit.



Minimum BOP installation for a typical Pictured Cliffs well from surface to Total Depth. 11" Bore (10" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of BOP. All equipment is 2000psi working pressure/or greater.

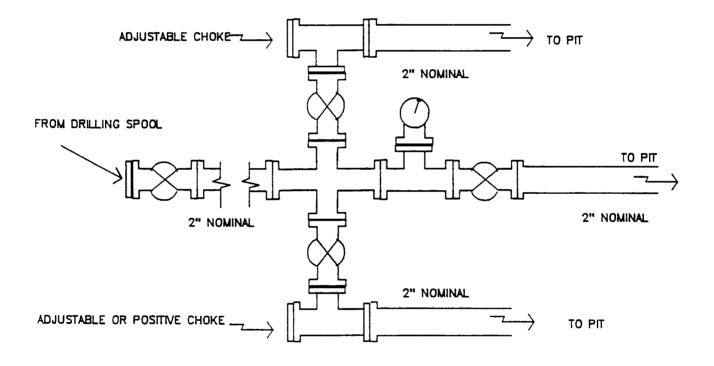




Minimum BOP installation for Completion Operations. 7 1/16" Bore (6" Nominal), 2000psi minimum working pressure double gate BOP to be equipped with blind and pipe rams.

Figure #2

MERIDIAN OIL INC. Typical Pictured Cliffs Well Choke Manifold Configuration



Minimum choke manifold installation for a typical Pictured Cliffs well from surface to Total Depth. 2", 2000psi working pressure equipment with two chokes.

Figure #3

San Juan 29-4 Unit #200 Multi-Point Surface Use Plan

- 1. Existing Roads Refer to Map No. 1. Existing roads used to access the proposed location will be properly maintained for the duration of the project. Bureau of Land Management right-of-way has been applied for as shown on Map No. 1.
- 2. Planned Access Road Refer to Map No. 1. None required.
- 3. Location of Existing Wells Refer to Map No. 1A.
- 4. Location of Existing and/or Proposed Facilities if Well is Productive -

a. On the Well Pad - Refer to Plat No. 1, anticipated production facilities plat.

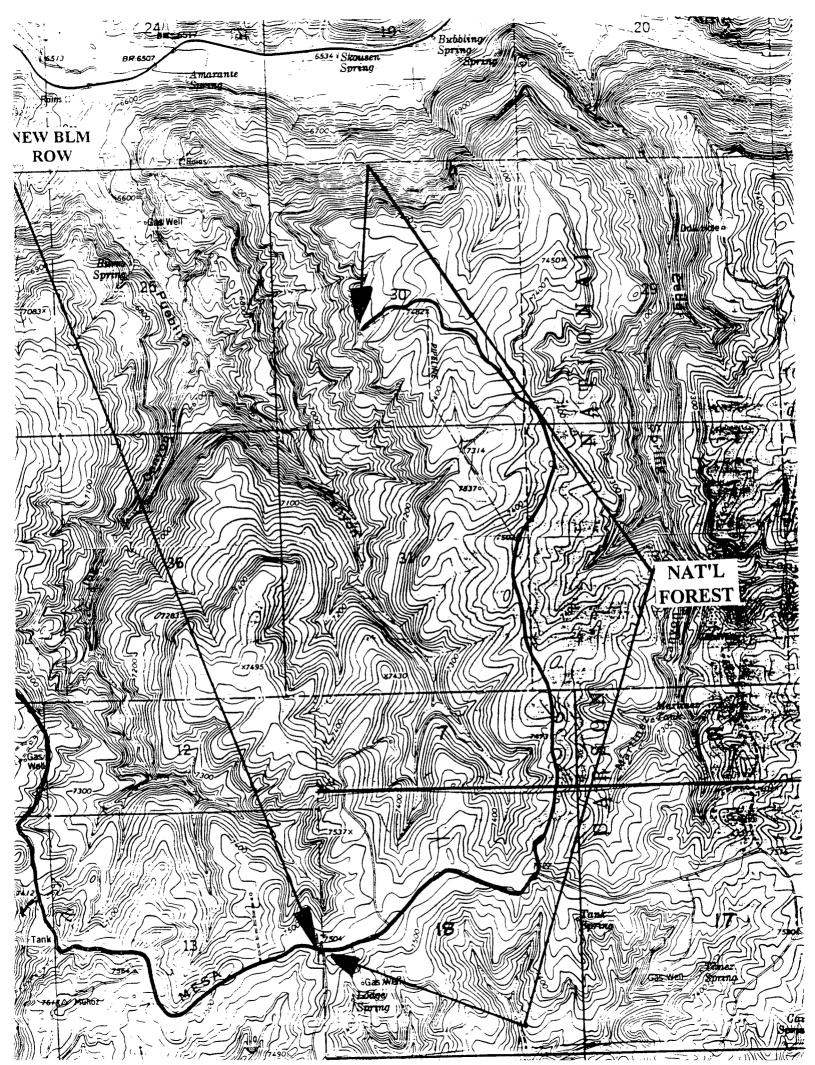
b. Off the Well Pad - Anticipated facilities off the well pad will be applied for as required.

- 5. Location and Type of Water Supply Water will be hauled by truck for the proposed project and will be obtained from San Juan 29-6 Water Well #1 in located in SW/4 Section 28, T-29-N, R-6-W, New Mexico.
- 6. Source of Construction Materials If construction materials are required for the proposed project, such materials will be obtained from a commercial quarry.
- 7. Methods of Handling Waste Materials All garbage and trash materials will be removed from the site for proper disposal. A portable toilet will be provided for human waste and serviced in a proper manner. If liquids are left in the reserve pit after completion of the project, the pit will be fenced until the liquids have had adequate time to dry. The location clean-up will not take place until such time as the reserve pit can be properly covered over to prevent run-off from carrying waste materials into the watershed. All reserve pits will be lined with 12 mil bio-degradable plastic liner. All earthen pits will be so constructed as to prevent leakage from occurring; no earthen pit will be located on natural drainage. Generation of hazardous waste is not anticipated. Federal regulations will be adhered to regarding handling and disposal of such waste if so generated.
- 8. Ancillary Facilities None anticipated.
- 9. Wellsite Layout Refer to the location diagram and to the wellsite cut and fill diagram (Figure No. 4). The blow pit will be constructed with a 2'/160' grade to allow positive drainage to the reserve pit and prevent standing liquids in the blow pit.

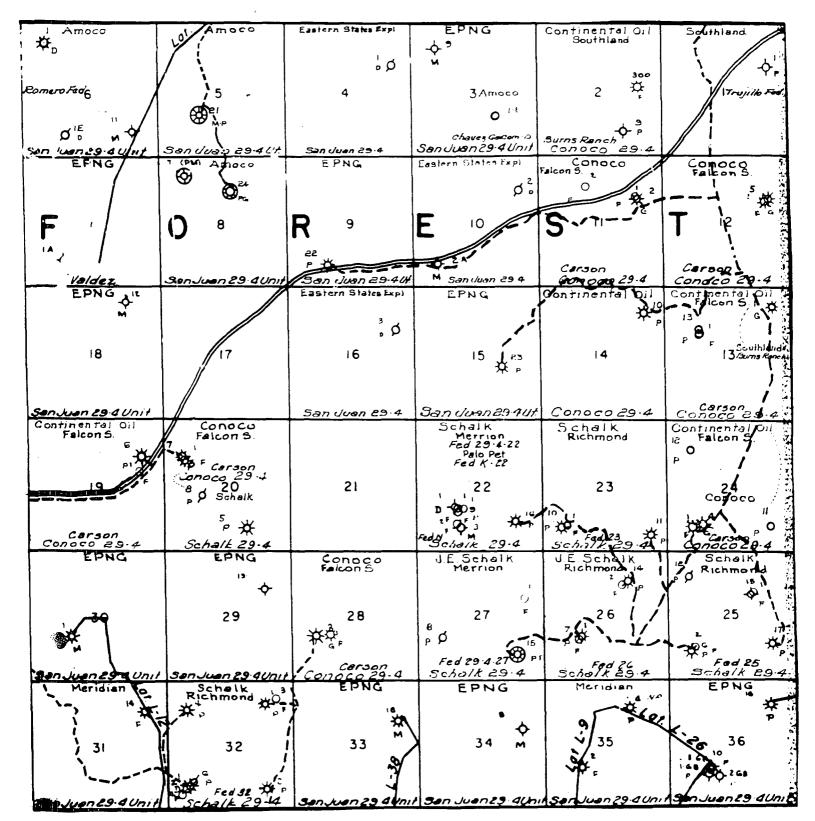
- 10. Plans for Restoration of the Surface After completion of the proposed project, the location will be cleaned and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. Seed mixture as designated by the responsible government agency will be used. The reseeding operations will be performed during the time period set forth by the responsible government agency. The permanent location facilities will be painted as designated by the responsible government agency.
- 11. Surface Ownership Carson National Forest.
- 12. Other Information Environmental stipulations as outlined by the responsible government agency will be adhered to. Refer to the archaeological report for a description of the topography, flora, fauna, soil characteristics, dwellings, historical and cultural sites.
- 13. Operator's Representative and Certification Meridian Oil Regional Drilling Manager, Post Office Box 4289, Farmington, NM 87499, telephone (505) 326-9700. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan, are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Meridian Oil Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Regional Drilling Engineer

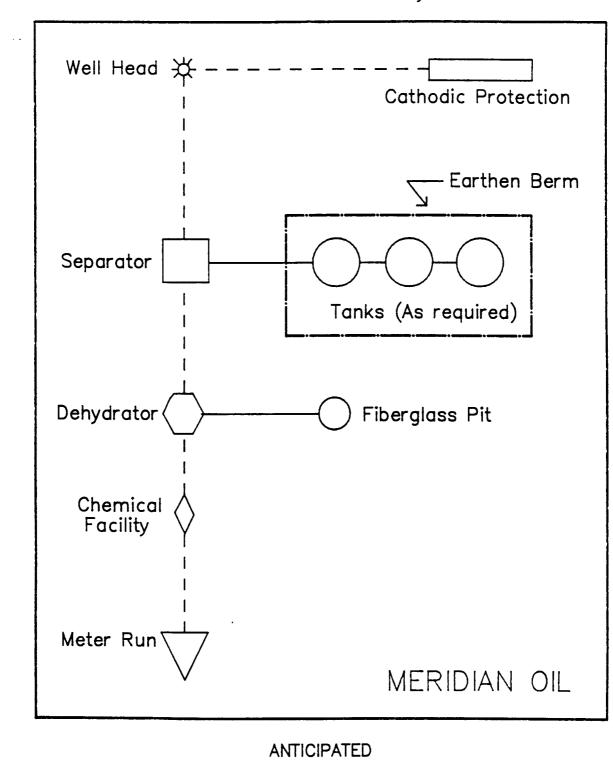
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MERIDIAN OIL INC. Pipeline Map T-29-N, R-04-W San Juan County, New Mexico San Juan 29-4 Unit #200 Map #1A

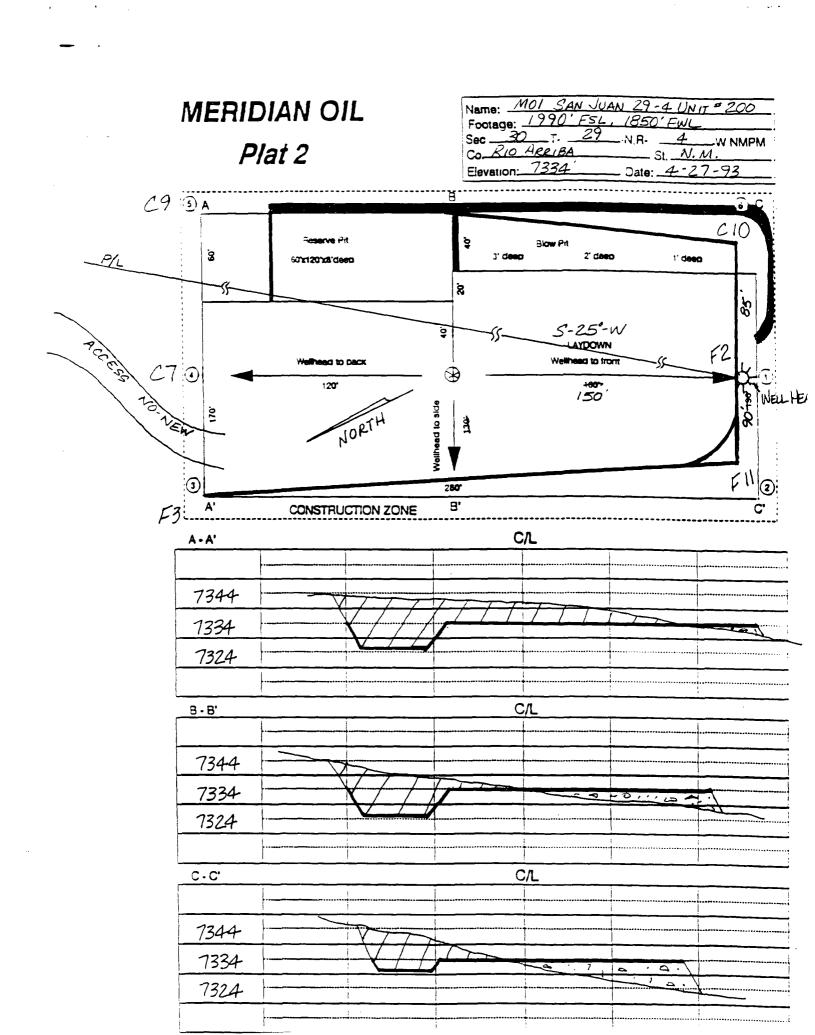


Well Pad Boundary

PRODUCTION FACILITIES

FOR A

FRUITLAND COAL/PICTURED CLIFFS COMMINGLED WELL



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

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

State of New Maxico Energy, Minarais and Natural Resources Department

Form-C-102 Review 1-1-W

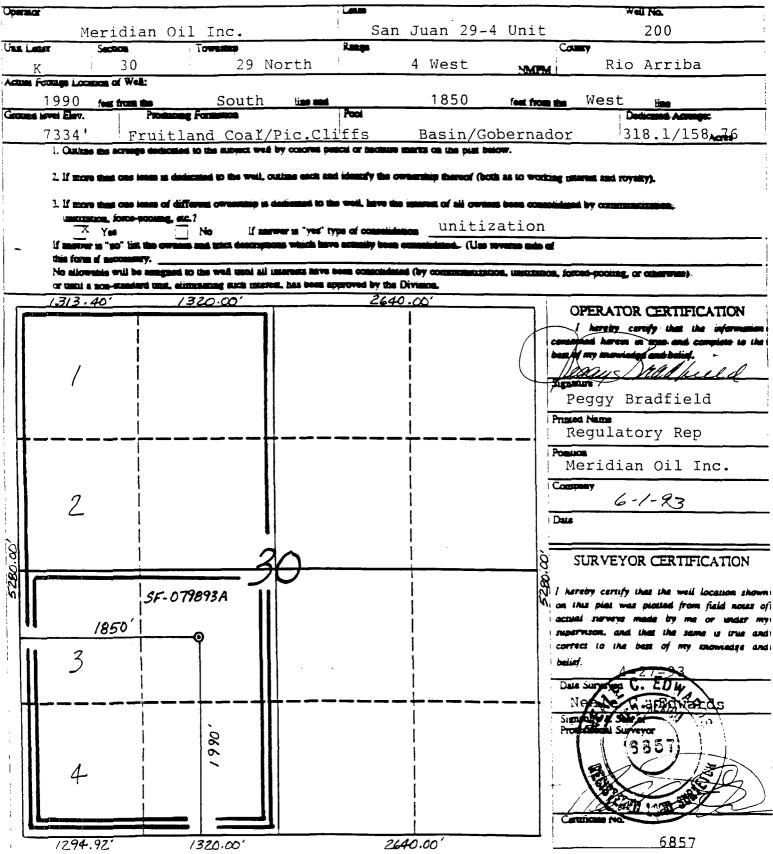
OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe. New Mexico 87504-2088

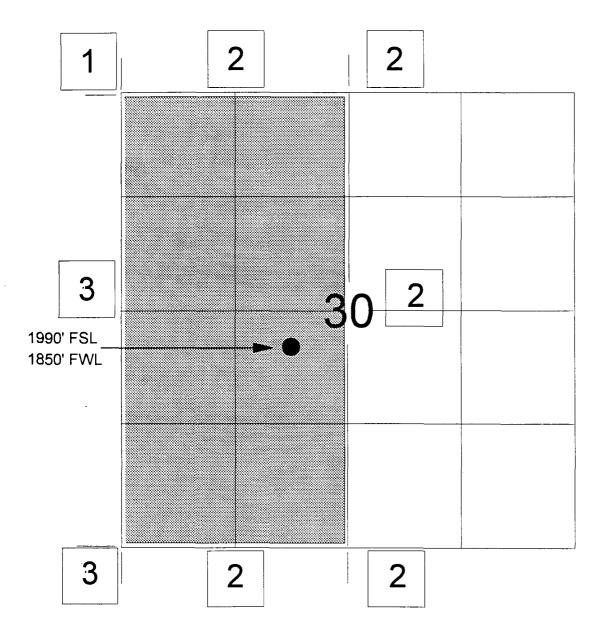
WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer councienes of the section



MERIDIAN OIL INC.

OFFSET OPERATOR\OWNER PLAT Fruitland Coal\Pictured Cliffs Commingle San Juan 29-4 Unit #200 NE SW Section 30, T29N, R4W Rio Arriba County, New Mexico



- 1) Schalk Development Company, P.O. Box 25825, Albuquerque, New Mexico 87125-FR Only
- 2) Meridian Oil Inc., P.O. Box 4289, Farmington, New Mexico 87499-4289-(PC & FR)
- 3) Phillips Petroleum Company, San Juan 29-5 Unit Operator, 5525 Hwy 64, NBU 3004, Farmington, New Mexico 87401-(PC & FR)

MERIDIAN OIL

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Re: Meridian Oil Inc. San Juan 29-4 Unit #200 1990'FSL, 1850'FWL Section 30, T-29-N, R-04-W San Juan County, New Mexico

I hereby certify that the following offset operators/owners have been mailed notification of our application for non-standard location to drill the referenced well.

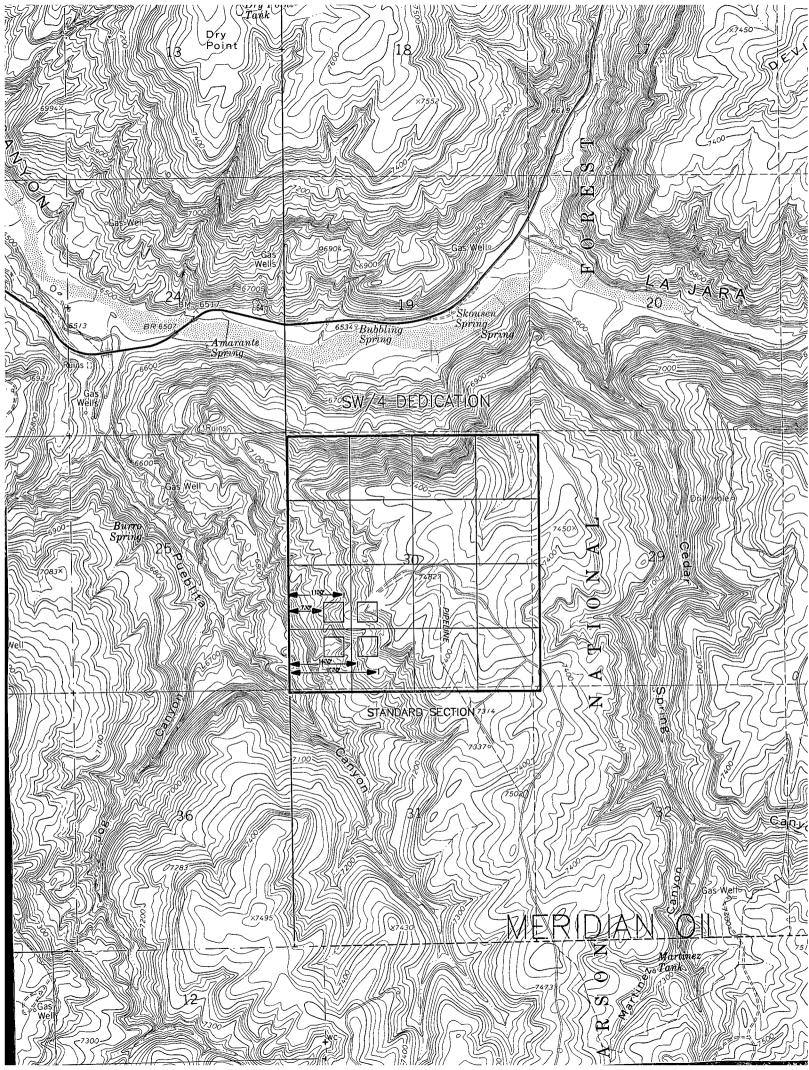
Schalk Development Co PO Box 25825 Albuquerque, NM 87125

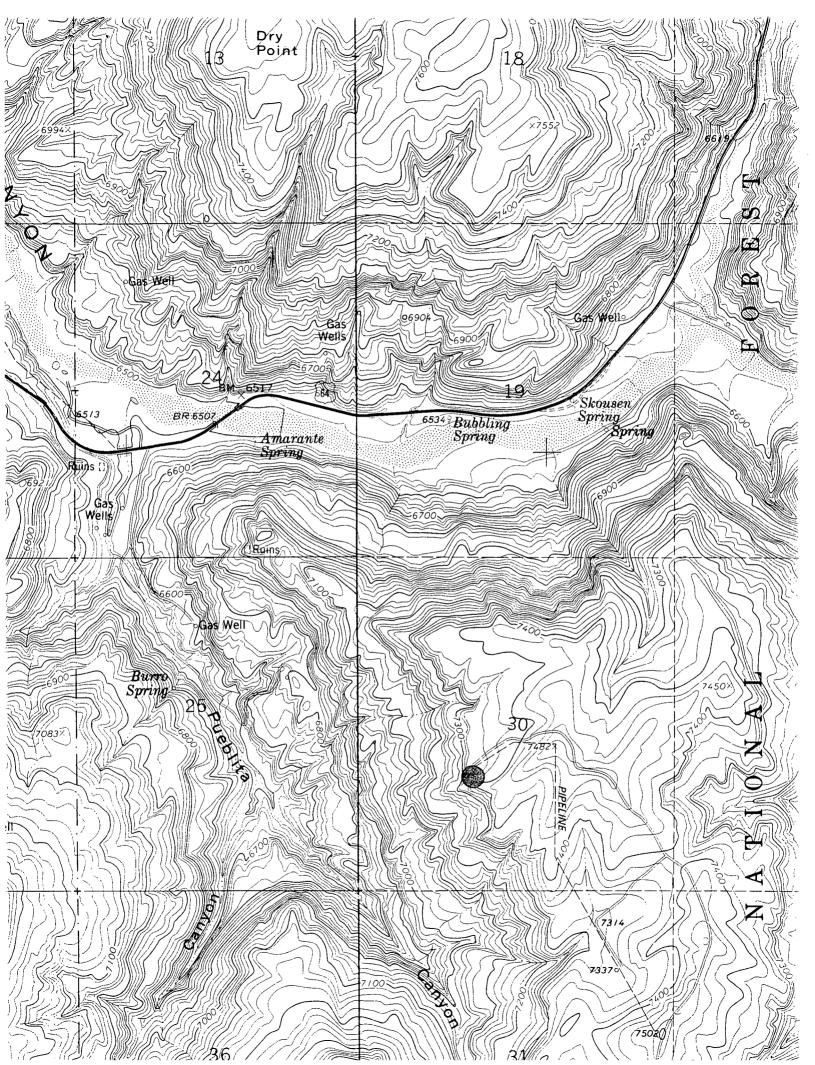
Phillips Petroleum 5525 Highway 64, NBU 3004 Farmington, NM 87401

Dradfield

Peggy A. Bradfield San Juan County State of New Mexico

My commission expires August 17, 1996





MERIDIAN OIL

June 17, 1993

Sent Federal Express

Mr. William LeMay New Mexico Oil Conservation Division Post Office Box 2088 Santa Fe, New Mexico 87501

Re: Meridian Oil Inc. San Juan 29-4 Unit #200 1990'FSL, 1850'FWL Section 30, T-29-N, R-4-W Rio Arriba County, New Mexico

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- 2. Completed C-102 at referenced location.
- 3. Offset operators/owners plat and affadavit of notification.
- 4. 7.5 minute topographic map showing the orthodox windows for the southwest guarter dedication and enlargement of the map to define topographic features.
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A copy of this application is being submitted to all offset owners/ operators by certified mail with a request that they furnish you with a Waiver of Objection, and return one copy to this office.

Sincerely, Stalfued LAGLI \

Peggy Bradfield **Regulatory/Compliance Representative**

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Ву: 🧹	Labi	TA.	Flish	`	Date:	6/28	193		as proposed.

Schalk Development Co., PO Box 25825, Albuquergue, NM 87125 XC: Phillips Petroleum, 5525 Highway 64, NBU 3004, Farmington, NM 87401



ARCO Oil and Gas Company 🐇

Western District 600 N. Marienfeld Midland. Texas 79701 Post Office Box 1610 Midland, Texas 79702 Telephone 915 688 5200 GIL CONSERVEND DIVISION RECEIVED

'93 JU 12 AM 8 54

July 8, 1993

Mr. William J. LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

NSC-328/(SD)

RE: Additional Information and Request for Approval 6/14/93 Application for Unorthodox Eumont Gas Well Location and Simultaneous Dedication State 176 #5 and State 176 #7 N/2 NW/4, SE/4 NW/4, and W/2 E/2 of Section 19, T21S, R36E, Lea County, NM Eumont (Yates/Seven Rivers/Queen) Pool

Dear Mr. LeMay:

ARCO Oil and Gas Company respectfully requested, by application to your office on 6/14/93, administrative approval for an unorthodox Eumont gas well location for the State 176 #5 and State 176 #7 wells located 990' FNL, 330' FWL and 1650' FNL, 1650' FWL, respectively, in Section 19, T21S, R36E in Lea County, New Mexico. At the same time, ARCO requested simultaneous dedication of the Eumont gas production from the State 176 #3, #4, and #6 with the Eumont gas production from the State 176 #7.

ARCO Oil and Gas Company notified the offset operators of that application by sending a copy of the application package, along with Waiver to Objection forms, by certified mail. Attached with this follow-up letter are copies of the certified mail receipts sent to all offset operators, showing that they have all received a copy of this application and have had more than 21 days to respond to either ARCO or the NMOCD. Also attached are copies of signed waiver forms from 2 offset operators, indicating that they have no objection to the proposed work. Since a signed waiver has been received from 2 offset operators, and since all offset operators have received notice of ARCO's application by certified mail and have had sufficient time to respond to the application, and no offset operators have objected to this application, ARCO respectfully requests that the NMOCD grant prompt administrative approval of this request.

If you need further information, please call me at (915) 688-5446.

Sincerely,

2 Thwell

David K. Newell Senior Operations/Analytical Engineer

Attachments:

Certified Mail Receipts Offset Operator List Waiver to Objection Forms 6/14/93 Application

ARCO OIL AND GAS COMPANY Application for an Unorthodox Eumont Gas Well Location State 176 #5 and State 176 #7

, '

Simultaneous Dedication of Eumont Gas Production State 176 #3, #4, and #6 (existing) State 176 #5 and #7 (new) Eumont Gas Pool Section 19, T-21S, R-36E Lea County, New Mexico

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OFFSET OPERATORS

Chevron USA, Inc. Citation Oil and Gas Corporation Conoco Inc.

SENDER: I also wish to receive the Complete items 1 and/or 2 for additional services Complete items 3 and 4a & b following services (for an extra Print your name and address on the reverse of this form so that we fee): eturn this card to you 1: Addressee's Address Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece b 2. Restricted Delivery The Return Receipt Fee will provide you the signature of the board the date of delivery. Consult postmaster for fee. to and the date of delivery. 3. Article Addressed to: Article Number 新学校的新闻,在这些<u>有"大"(194</u>3) 4b. Service Type CONOCO INC. PAUL BAKER ATTN: Certified 10 DESTA DRIVE Express Maile ... Return Receipt for Merchandise MIDLAND, TEXAS 79705 Date of Delivery 7. -17-93 5. Signature (Addressee) 8. Addressee's Address (Only if requested and fee is paid); 6. Signature (Agent) PS Form 381/1, November 1990 / JUS GPO 1991-287 088 DOMESTIC RETURN RECEIPT ENDER: lealso wish to receive the 1 and/or 2 for additional services Complete items Complete items 3; and 4a & b. following services (for an extra Print your name and address on the reverse of this form so that we can fee): return this card to you. 1. 🖸 Addressee's Address Attach this form to the front of the mailpiece, or on the back if space does not permit. He Write "Return Receipt Requested" on the mailpiece below the article number
 The Return Receipt Fee will provide you the signature of the person delivere
 to and the date of delivery 2. Restricted Delivery Consult postmaster for fee. 3. Article Addressed to: 4a Article Number 322 150 3 4b. Service Type Registered
 Insured
 Certified
 COD Chevron USA, Inc. Attn: A. W. Bohling Express Mail Return Receipt for P. O. Box 1150 Merchandise Midland, Texas 79702 Date of Delivery 5. Signature, (Addressee) 8. Addressee's Address (Only if requested and fee is paid) 6. Signature (Agent) PS Form 3811 Anvember 1990 + US GPO: 1991-287-066 DOMESTIC RETURN RECEIPT SENDER: 6. 412 动动行 I also wish to receive the Complete items 1 and/or 2 for additional following services (for an extra Complete items 3, and 4e & b and address rse of this fee): Print your name return this card to you. 1 Addressee's Address Attach this form to the front of the mailplece, or does not permit. 2. 2. Restricted Delivery . Write "Return Receipt Requested" on the The Return Receipt Fee will provide you the signature of the person delivere Consult postmaster for fee. 古石物的内心 to and the date of delivery. 4a. Article Number 3. Article Addressed to: r 322 うつ 4b., Serviced ype Begistered A Insured Certified COD Citation Oil & Gas Corp. Attn: Steve Robinson 8223 Willow Place South, Suite 250 Express Mail Houston, Texas 77070-5623 Merchandise 7. Date of Delivery 53 651) 18.4 S 8. Addressee's Address (Only if requested 5. Signature (Addressee) and fee is paid) an 6. Signature (Agent) PS Form 3811, November 1990 +U.S. GPO: 1991-287-086 DOMESTIC RETURN RECEIPT

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3. Article Addressed to:	4a. Article Number P 322 50 395
Mr. J. T. Sexton	4b. Service Type
New Mexico Oil Conservation Div.	Begistered Insured
P. O. Box 1980	Certified
Hobbs, New Mexico 88240	Express Mail Return Receipt for Merchandise
/	7. Date of Delivery
	- - /(5-93)
5. Signature (Addressee)	8. Addressee's Address (Only if requested
TRULIO	and fee is paid)
6./Signature (Agent)	
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PS Form 3811, November 1990 + U.S. GPO: 1991-	-287-068 DOMESTIC RETURN RECEIPT
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WAIVER TO OBJECTION

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ARCO OIL AND GAS COMPANY

Application for an Unorthodox Eumont Gas Well Location

State 176 #5, located 990' FNL and 330' FWL, Section 19-21S-36-E and State 176 #7, located 1,650' FNL and 1,650' FWL, Section 19-21S-36-E

AND

Simultaneous Dedication of Eumont Gas Production

State 176 #3, #4, and #6 (Existing) State 176 #5 and #7 (New) Eumont Gas Pool Section 19, T21S, R36E Lea County, New Mexico

I/We do hereby waive any objection to ARCO Oil and Gas Company's request for NMOCD Administrative Approval of an unorthodox well location for the State 176 #5 and State 176 #7, and simultaneous dedication of Eumont Gas Production from the State 176, #3, #4, #5, #6 and #7 to an existing 275-acre proration unit.

Signed: 78	Godbold.		
Title: Engi	neering hupen Chevron U.S.A.	ison, N. Mere	io area
Company:	Chevron U.S.A.	Production	Co.
Date: <u>6/</u> 2	4/93		
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Offset Operators:

Please indicate your approval for our request as detailed in the attached package by signing the waiver form below. Please return the signed waiver in the enclosed self-addressed envelope.

Thank you for your cooperation in this matter.

WAIVER TO OBJECTION

ARCO OIL AND GAS COMPANY

Application for an Unorthodox Eumont Gas Well Location State 176 #5 and State 176 #7 and Simultaneous Dedication of Eumont Gas Production State 176 #3, #4, and #6 (existing) State 176 #5 and #7 (new) Eumont Gas Pool Section 19, T21S, R36E Lea County, New Mexico

I/We do hereby waive any objection to ARCO Oil and Gas Company's request for NMOCD Administrative Approval of an unorthodox well location for the State 176 #5 and State 176 #7, and simultaneous dedication of Eumont gas production from the State 176 #3, #4, #5, #6 and #7 to an existing 275-acre proration unit.

Signed:	Steve K. anne
Title:	V.P Geol. & Reserveir Engr.
Company:	Citation Oil & Gas Corp
Date:	7/2/93

ARCO Oil and Gas Company Western District Post Office Box 1610 Midland, TX 79702 Telephone (915) 688-5200



June 14, 1993

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Mr. William J. LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Mr. J. T. Sexton New Mexico Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88240

RE: R-5323

Application for Unorthodox Eumont Gas Well Location & Simultaneous Dedication State 176 #5 and State 176 #7 N/2 NW/4, SE/4 NW//4, and W/2 E/2 of Section 19, T-21S, R-36E, Lea County, NM Eumont (Yates/Seven Rivers/Queen) Gas Pool

Dear Mr. LeMay / Mr. Sexton:

ARCO Oil and Gas Company respectfully requests administrative approval for an unorthodox Eumont gas well location for the State 176 #5 and State 176 #7, located 990' FNL, 330' FWL and 1650' FNL, 1650' FWL, respectively, in Section 19, T-21S, R-36E, Lea County, New Mexico. The State 176 #5 was a Eumont oil well which ARCO worked over earlier this year and its GOR has changed to a gas well. The State 176 #7 is a Eumont oil well which ARCO is preparing to workover, and expects its GOR to also change to a gas well. At the same time, ARCO requests simultaneous dedication of the Eumont gas production from the State 176 #3, #4, and #6 with the Eumont gas production from the State 176 #5 and State 176 #7 wells. The State 176 #3, #4, and #6 are Eumont gas wells currently dedicated to an existing 275-acre proration unit (R-5323) located in Section 19, T-21S, R-36E.

Attached are C-102 forms identifying the configuration of the subject 275-acre Eumont gas proration unit. Also attached is a list of offset operators for this unit, and a land plat map of the surrounding area.

ARCO Oil and Gas Company believes approval of this request will be in the interest of conservation, will protect correlative rights, and will allow for a more complete recovery of Eumont gas reserves from the subject acreage.

ARCO Oil and Gas Company is notifying the offset operators of this application by sending a copy of this application package, along with waiver to objection forms, by certified mail. If you need further information, please call me at (915) 688-5446.

Sincerely,

Jand X, Newell David K. Newell Sr. Operations/Analytical Engineer DKN:Irh cc: J. Cogburn - Hobbs Attachments ARCO OIL AND GAS COMPANY Application for an Unorthodox Eumont Gas Well Location State 176 #5 and State 176 #7

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Simultaneous Dedication of Eumont Gas Production State 176 #3, #4, and #6 (existing) State 176 #5 and #7 (new) Eumont Gas Pool Section 19, T-21S, R-36E Lea County, New Mexico

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OFFSET OPERATORS

Chevron USA, Inc. Citation Oil and Gas Corporation Conoco Inc. Offset Operators:

Please indicate your approval for our request as detailed in the attached package by signing the waiver form below. Please return the signed waiver in the enclosed self-addressed envelope.

Thank you for your cooperation in this matter.

WAIVER TO OBJECTION

ARCO OIL AND GAS COMPANY

Application for an Unorthodox Eumont Gas Well Location State 176 #5 and State 176 #7 and Simultaneous Dedication of Eumont Gas Production State 176 #3, #4, and #6 (existing) State 176 #5 and #7 (new) Eumont Gas Pool Section 19, T21S, R36E Lea County, New Mexico

I/We do hereby waive any objection to ARCO Oil and Gas Company's request for NMOCD Administrative Approval of an unorthodox well location for the State 176 #5 and State 176 #7, and simultaneous dedication of Eumont gas production from the State 176 #3, #4, #5, #6 and #7 to an existing 275-acre proration unit.

Signed:		 	
Title:	B	 	
Company:	·····		
Date:		 	

Operator

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

Well No.

OIL CONSERVATION DIVISION

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

Salita 1°C, 19CW MEXICO 87304-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

ARCO OIL AND GAS COMPANY STATE 176 #3 Unit Letter Section Township Range County J 19 21S 36E LEA NMPM Actual Footage Location of Well: 2310 SOUTH 1650 feet from the EAST feet from the line and line Pool Ground level Elev. **Producing Formation Dedicated Acreage:** 3597' YATES/7-RIVERS/OUEEN EUMONT 275 Acres 1. Outline the acreage dedicated to the subject well by colored peacil or hackure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? If answer is "yes" type of consolidation Yes **No** If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary. No allowable will be assigned to the well until all interests have been coasolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division. OPERATOR CERTIFICATION 77778 330 I hereby certify that the information : contained herein in true and complete to the 2310 best of my knowledge and belief. 990 Signature well #5 1650' 1650' Printed Name EVELYN E. GILSON Position ENGINEERING TECHNICIAN Company 1650' 2310 ARCO OIL AND GAS COMPANY Date JUNE 14, 1993 SURVEYOR CERTIFICATION 1650' I hereby certify that the well location shown #350 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 \mathcal{S} belief. Date Surveyed Signature & Seal of Professional Surveyor 2310 Certificate No. 1500 1000 330 660 990 1320 1650 1980 2310 2640 2000 500 Û

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION P.O. Box 2088

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

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Operator					Lease	4 = -		Well No.	
ARCO OIL	AND GA	S COMPA	NY			FE 176			#4
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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

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

perator			tances must be fr					Well No.
ARCO OIL A	ND GAS CO	MPANY	Ī	STATE	176			#5
it Letter	Section	Township	<u>1</u>	Linge	<u> </u>		County	
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No allowat		ed to the well until all eliminating such inte				itization, unitization,		g, or otherwise) OR CERTIFICATION
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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION P.O. Box 2088

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

			lances must be	Lease						
Operator									Well No.	
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	feet from the	NORTH	line and		310	feet fro	m the	WEST	line	
und level Elev.	Prod	ucing Formation		Pool				L	Dedicated Acres	ige:
3638'	<u> </u>	S/7-RIVERS/C cated to the subject we	UEEN	<u> </u>	EUMONI				275	Acres
3. If more unitization	than one lease of on, force-pooling Yes		s dedicated to the iswer is "yes" typ	well, have the	ne interest of all	owners been con	olidated	•	••	
this form if No allowat	f neccessary	ed to the well until all , eliminating such inter	interests have be	en consolidat	ied (by commu	•		d-pooling,	or otherwise)	
23 990.' 	10'	330 #6 1650'		0'	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		I contained best of n Signatur ELTC Printed I	hereby ci ad herein ny knowled e ligy Name	R CERTIFIC ertify that the in true and c ige and belief. <u>E. A</u> GILSON	e informati
1650'		₩ #7	****		2310		Position ENGI Compan ARCC Date JUNF	NEERI y OOIL	NG TECHN AND GAS	COMPAN
		<u></u>		#3 🇚	1650'		l hereb on this actual supervis correct belief.	y certify t plat was surveys n con, and	k CENTIFI plotted from nade by me that the sam nest of my h	location sho field notes or under t e is true a
		· 	23	10'	+		Profess	re & Seal (ional Surve		
			<u>F</u>		K		Centific	ate No.		

Operator

Unit Letter

1650

3644'

Ground level Elev.

F

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

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

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

Yes

Section

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-102 Revised 1-1-89

Well No.

#7

line

275

Acres

OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section 1.03.80 STATE 176 ARCO OIL AND GAS COMPANY Township Range County 36E LEA 19 21S NMPM Actual Footage Location of Well: NORTH 1650 WEST feet from the line and feet from the Pool Dedicated Acreage: **Producing Formation** YATES/7-RIVERS/QUEEN EUMONT

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?

If answer is "yes" type of consolidation □ No

If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if neccessary.

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

2310'	330 230 #6			OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief.
330 #5	1650'	1650'		Signature Evelyn E. Allow Printed Name EVELYN E. GILSON Position
1650'	#7	**#4	2310'	ENGINEERING TECHNICIAN Company ARCO OIL AND GAS COMPANY Date JUNE 14, 1993
	 	#3	1650'	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.
	 	2310'		
0 330 660 990 13	20 1650 1980 2310 24	540 2000 1500	1000 500	Certificate No.

	<u>COUNTY Ric</u>	Arriba POOL Gobernador - Pictured Cliffs	
	TOWNSHIP 29	North RANGE 4 West MMPM	
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-	Ext: 1/2	Sec 19, 14 Sec 20 (R-4963, 3-1-75)	
	Ext: 3/2 S	<u>Sec 19, NW4 Sec 20 (R-4963, 3-1-75)</u> ec 19, All Sec 30, NE/4 Sec 31, N/2 \$ 55/4 Sec 32 (R-5339, 2-1)	(77
	ExT: 1/2 5	<u>e. 20 (R-6056, g-1-79)</u>	
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