NSL 3/5/98



ARCO Permian 600 North Marienfeld Midland TX 79701-4373 Post Office Box 1610 Midland TX 79702-1610 Telephone 915 688 5570

Elizabeth A. Casbeer Regulatory/Compliance Analyst



February 4, 1998

NMOCD 2040 S. Pacheco Santa Fe, New Mexico 87504

Ladies and Gentlemen:

ARCO Permian hereby requests administrative approval for an unorthodox location for Lago Rosa "4" Federal #5 under Rule 104.F. (3), due to topographical conditions and irregular section measurements. Because of foreshortened Lots 17 thourgh 20 (tracts M through P) of Section 4, this location is approximately 177' from the south line of the lease and 205' from the east line of the lease. Barry Hunt with the BLM made an onsite inspection and determined that the hill slopes and two west trending draws (as shown on topo map) demanded the location be shifted as shown. As prescribed, we are submitting all supporting documentation with this APD.

On February 9th, we sent copies of this APD and a copy of the surveyor's plat and topo map to Devon Energy by certified mail. We advised them that if they have an objection, it must be filed in writing within 20 days from the date notice was sent.

A list of the offset operators directly adjacent to this location is attached. Thank you for your assistance in this matter.

Sincerely,

Elizabeth A. Casbeer

Regulatory/Compliance Analyst

EAC:lc

cc: Bureau of Land Management, Roswell, New Mexico NMOCD, Artesia, New Mexico

**Enclosures** 



ARCO Permian 600 North Marienfeld Midland TX 79701-4373 Post Office Box 1610 Midland TX 79702-1610 Telephone 915 688 5570

Elizabeth A. Casbeer Regulatory/Compliance Analyst

February 10, 1998

#### CERTIFIED RETURN RECEIPT MAIL

Devon Energy 20 N. Broadway, Suite 1500 Oklahoma City, Oklahoma 73102

Ladies and Gentlemen:

This letter will serve as notice that ARCO Permian has requested administrative approval from the NMOCD for an unorthodox location for Lago Rosa "4" Federal #5 under Rule 104.F. (3), due to topographical conditions and irregular section measurements. Because of foreshortened Lots 17 through 20 (tracts M through P) of Section 4, this location is approximately 177' from the south line of the lease and 205' from the east line of the lease. Barry Hunt with the BLM made an onsite inspection and determined that the hill slopes and two west trending draws (as shown on topo map) demanded the location be shifted as shown. As required by the NMOCD, we are also sending a copy of all supporting documentation with this letter for your perusal.

Should your company have any objection, it must be filed in writing withing 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,

Elizabeth A. Casbeer

Regulatory/Compliance Analyst

Juliet a. Cushen

EAC:lc

**Enclosures** 

#### STATE OF TEXAS

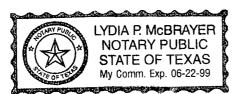
#### **COUNTY OF MIDLAND**

BEFORE ME, the undersigned authority on this day personally appeared Elizabeth A. Casbeer, a Regulatory Compliance Analyst 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 February 10, 1997, of the Bureau of Land Management form 3160-3 (and supporting documentation) entitled, "Application For Permit to Drill or Deepen" for the Lago Rosa "4" Federal #5.

**ARCO Permian** 

Flizabeth A. Casbeer

**SUBSCRIBED AND SWORN** TO before me on February 10, 1998, to certify which witness my hand and seal of office.



IOTARY PUBLIC, STATE OF TEXAS

#### OFFSET OPERATOR LAGO ROSA "4" FEDERAL #5

Devon Energy 20 N. Broadway, Suite 1500 Oklahoma City, Oklahoma 73102 Form 3160-3 (July 1992)

#### SUBMIT IN TRIPLICATE\* **UNITED STATES**

(Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR

5.	LEASE	DESIGNATIO	n and s	ERIAL NO.

BUREAU OF	6. IF INDIAN, ALLOTTEE OF	R TRIBE NAME					
APPLICATION FOR F	PERMIT TO	O DRILL	OR DEE	PEN	o. II Albani, Albarrica	· · · · · · · · · · · · · · · · · · ·	
b. TYPE OF WORK  DRILL X	DEEPEN				7. UNIT AGREEMENT NAMI	e.	
OIL X GAS OTHER 2. NAME OF OPERATOR  ARCO Permian		SINGLE ZONE	X MUL ZON	TIPLE	8. FARM OR LEASE NAME, LAGO ROSA "4" FEDERAL 9. API WELL NO.	WELL NO. 5	
ADDRESS AND TELEPHONE NO.  P.O. Box 1610, Midland, TX 79702  LOCATION OF WELL (Report location clearly and in accord	ance with any State r	equirements.*)	915	5-688-5570	10. FIELD AND POOL, OR W RED LAKE (Q-GB		
At surface  1550 'FSL, 1115 'FWL At proposed prod. zone  SAME  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  4-T185-R27E							
4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOW 10 MILES SE OF ARTESIA, NM		12. COUNTY OR PARISH EDDY	13. STATE				
DISTANCE FROM PROPOSED*     LOCATION TO NEAREST     PROPERTY OR LEASE LINE, FT.     (Also to nearest drig, unit line, if any)		16. NO. OF ACRE 40	S IN LEASE		OF ACRES ASSIGNED HIS WELL 40		
8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000*		19. PROPOSED D 3800	ЕРТИ		20. ROTARY OR CABLE TOOLS  ROTARY		
1. ELEVATIONS (Show whether DF,RT, GR, etc.)					22. APPROX. DATE WORK 3/98	( WILL START*	
3. F	PROPOSED CASING	AND CEMENTI	NG PROGRAM				
SIZE OF HOLE GRADE, SIZE OF CASING 11' 8-5/8" J-55	WEIGHT PER FOO 24				ENT		
7-7/8" 5-1/2" K-55	15.5#		3800	1300 F			
		ļ		ł			

SUBJECT WELL IS PLANNED AS A 3800' STRAIGHT HOLE. 3,000 PSI BOPE WILL BE USED FROM 1100' TO TD.

#### ATTACHMENTS ARE AS FOLLOWS:

- 1. CERTIFIED LOCATION PLAT
- 2. DRILLING PLAN WITH ATTACHMENTS
- 3. SURFACE USE PLAN WITH ATTACHMENTS

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.

SIGNED Elizabeth. Chakee	TITLE REGULATORY COMPLIANCE	2/9/98
(This space for Federal or State office use)		
500 Mg 1/0	ADDROLLAY IN APP	•
PERMIT NO.	APPROVAL DATE	
Application approval does not warrant or certify that the applicant holds legal or c CONDITIONS OF APPROVAL, IP ANY:		licant to conduct operations thereon.
Application approval does not warrant or certify that the applicant holds legal or o		licant to conduct operations thereon.

DISTRICT I P.O. Box (980, Hobbs; NM 88841-1980

#### State of New Mexico

Energy, Minerals and Natural Resources Department

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

DISTRICT III

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

DISTRICT IV P.O. Box 2088, Santa Fc. NM 87504-2088

1000 Rio Brazos Rd., Axtee, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	RED LAKE C	
Property Code	Prope	rty Name	Well-Number
	LAGO ROSA	"4" FEDERAL	5
OGRID No.	Opera	tor Name	Elevation
000990	ARCO	PERMIAN	3540
	Surfac	e Location	

į	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/West line	County
	16	4	18 S	27 E		1550	SOUTH	1115	WEST	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 or	r Infill Co	nsolidation (	Code Ore	ler No.				
40									į

### 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

	OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION				
LOT 8 39.92 AC.	LOT 7 39.37 AC,	LOT 6 37.70 AC.	LOT 5 37.73 AC.	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and bettef.  Lizalet L. Cleshee	
LOT 9 38.93 AC.	LOT 10 38.43 AC.	LOT 11 37.23 AC.	LOT 12 37.28 AC.	ELIZABETH A. CASBEER Printed Name REG. COMP. ANALYST Title 2-3-98 Date  SURVEYOR CERTIFICATION	
3525.4'	LOT 15 38.64 AC.	LOT 14 37.82 AC.	LOT 13 37.61 AC.	I hereby certify that the well location shown on this plat was plotted from field noise of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.  NOVEMBER 14, 1997  Date Surveyed. Expression JLP Signature, & Seat-of	
1550	3553.8"   NAD27   SPC   NME   X=513965=E   Y=645178=N   LOT 18 38.43 AC.	LOT 19 38.01 AC.	LOT 20 37.80 AC.	Professional Surveyor  W.O. Num. 97-11-1893  Certificate Nov. 1918-W. WEST. 676  Certificate Nov. 1918-W. WEST. 676  CONTROL HOFF SAMUED J. EIDSON, 3239  CONTROL HOFF SAMUED J. EIDSON, 12641	

#### DRILLING PLAN

Attachment to BLM Form 3160-3 ARCO Permian

Well: Lago Rosa "4" Federal #5

1115'FWL, 1550'FSL Section 4-T18S-R27E Eddy County, New Mexico

#### 1. Surface Geological Formation

Yates Formation (Sand and Anhydrite)

#### 2. Estimated Tops of Geological Markers

<u>Formation</u>	<u>TVD</u>
Bowers	600'
Queen	800'
Grayburg	1100'
Premier	1420'
San Andres	1500'

#### 3. Estimated Tops of Possible Water, Oil, Gas or Minerals:

Sands above 1000'

Water

#### 4. Pressure Control Equipment

Interval, TVD	Pressure Control Equipment
0'-1100'	No pressure control required
1100'-TD	11", 2M psi double ram preventer, or;
	11" 2M nei annular preventer

Exhibits 1, 2 and 3 show a double ram BOP stack arrangement, the choke manifold arrangements and the BOP specifications, respectively. The BOPE will be hydraulically tested per BLM requirements outlined by Onshore Oil and Gas Order No. 2. Pipe rams and blind rams, if a double ram preventer is used, will be functioned on each trip out of the hole. All BOPE checks and tests will be witnessed by ARCO's representative and will be noted on the IADC daily drilling report. Accessories to BOPE will include an upper kelly cock, lower kelly cock, and floor safety valve; all with pressure rating equivalent to the BOP stack.

#### 5. Proposed Casing and Cementing Program

	Hole	Interval	Casing	Weight &
	Size	<u>M.D.</u>	Size	<u>Grade</u>
Surface	11"	0'-1100'	8-5/8"	24# J-55
Production	7-7/8"	1100'-3800'	5-1/2"	15.5# K-55

Cement Program: (Actual volumes will be based on caliper log when available)

Surface - Cement to surface with total of +/- 600 cu ft as follows: <u>Lead Slurry</u> - 250 sks Class "C" + 4% Gel + 2% Cacl<sub>2</sub>

#### Tail Slurry - 100 sks Class "C" + 2% CaCl<sub>2</sub>

Production - Cement to surface with a total of +/- 800 cu ft as follows::

Lead Slurry - 300 sks 35 Poz: 65 Class "C" + 6% Gel + 5% salt Tail Slurry - 200 sks 50 Poz: 50 Class "C" +32% Gel + 5% salt + 0.4 % FL-62

#### 6. Mud Program

		Weight	Funnel	Water
Depth	Mud Type	ppg	Viscosity	Loss
0'-1100'	Spud Mud	8.4-8.9	29-34	NC
1100'-2900'	Brine	10.0-10.2	28-30	NC
2900'-3800'	SWG	10.0-10.4	30-35	≤15 cc

#### 7. **Auxiliary Equipment**

Upper Kelly Cock, Lower Kelly Cock, and Full Opening Stabbing Valve

#### 8. Testing, Coring, and Logging Program

- Drill Stem Tests None planned. A.
- B. Coring - None planned.
- Mud Logging -1100'-TD C.
- Electric Logs D.

Open Hole: DLL/MLL, CNL/LDT, GR: Shoe of 8-5/8" csg to TD Surf. to shoe of 8-5/8" csg

Cased Hole:

GR/CNL

TD to 1500'. GR/CCL

#### Anticipated Abnormal Temperature, Pressure, or Hazards 9.

Potential seepage and lost circulation starting in the Queen formation and continuing throught the San Andres (800'-TD).

#### **Anticipated Starting Date and Duration of Operations** 10.

Pending favorable weather and permit approval, construction work on this location is planned to begin in January, 1998. Construction work will require 2 days, move-in and rig up rotary tools, 1 day, drill and complete, 18 days. It is planned to spud the well in January, 1998.

#### SURFACE USE PLAN

Attachment to BLM Form 3160-3 ARCO Permian Well: Lago Rosa "4" Federal #5 1550'FSL, 1115'FWL Section 4-T18S, R27E Eddy County, New Mexico

#### 1. Directions to Location/Existing Roads

From Artesia, New Mexico go East 9 miles on Highway 82, then turn right on CR 204. Go SE 0.2 miles on CR 204 and turn right on CR 225. Go S 2.1 miles on CR 225 and turn right on CR 227. Go WSW 2 miles on CR 227 and turn right on CR 201. The Lago Rosa "4" Federal #5 location is approximately 700' North of CR 227 at this point. Exhibits "4" and "5" are the Vicinity Map and the Location Verification Map, respectively.

- A. The proposed development wellsite is staked as shown on the certified location plat attached.
- B. Most of the existing roads will not require any improvement or repair. Any existing sections of road that need improvement or repair will be fixed to a condition equal to that of the good sections of the existing road. All roads will be maintained in a condition equal to that which existed prior to the start of the construction.

#### 2. Planned Access Roads

- A. Approximately 730' of new access road will be required.
- B. New access roads will have a 12' wide travel lane and be surfaced with 6" compacted caliche.
- C. Turnouts: None
- D. Culverts: None
- E. Cuts and fills: No major road cuts or fills will be necessary.

#### 3. Location of Existing Wells

A. The existing wells within a one mile radius of this location are shown on Exhibit "6".

#### 4. Location of Existing or Proposed Facilities

- A. Existing Facilities No facilities are currently existing for this well.
- B. New Facilities Proposed If a successful Paddock producer is completed, surface facilities will consist of treater and storage tanks for oil and water.

#### 5. Location and Type of Water Supply

Fresh and brine water used in drilling and completion operations will be purchased from independent trucking companies located in Artesia or Loco Hills, New Mexico. The water will be hauled over existing and new roads to the location.

#### 6. Source of Construction Materials

Caliche for the road and well pad construction will be purchased from the Turkey Track Ranch (Bogle LTD) managed by Louis Derrick (505) 734-5442. The caliche will be hauled over existing and new roads to the location.

#### 7. Methods of Handling Waste Disposal

- A. Drill cuttings will be handled in the reserve pit and buried during reclamation operations.
- B. Trash, waste paper, garbage and junk will be contained in a fenced trash trailer to prevent scattering by the wind and hauled to a municipal sanitary landfill. All sacked drilling mud will be picked up by the supplier. The drilling contractor will haul away any chemicals that they use while drilling.
- C. Toilet facilities will be provided for human waste. Sewage disposal facilities will be in accordance with State and Local Regulations.
- D. Drilling fluids will be handled as follows: The free water will be either hauled to the reserve pit of the next drilling well for re-use or hauled to a permitted SWD. If any mud is hauled away it will be disposed of at an approved mud disposal site. Remaining drilling fluids will be allowed to evaporate in the reserve pit until dry enough for reclamation.
- E. Any fluids produced during swab testing the well while the pulling unit is on location will be collected in a test tank. Produced water will be hauled to a permitted SWD. Oil produced will remain in the test tank until sold and hauled from the site.

#### 8. Auxiliary Facilities

No new facilities will be built during drilling of this well. A trailer will be used as an office and temporary living quarters for wellsite supervision.

#### 9. Wellsite Layout

- A. Exhibit "7" shows the proposed wellsite layout and dimensions. Major rig components and reserve pits are shown.
- B. No significant cuts or fills will be required.
- C. The reserve pits will be plastic lined with minimum 6 mil double x-laminated plastic. The liner will overlap the pit dikes and be anchored down. The reserve pit will be fenced on three sides during drilling operations. After drilling operations have ceased the fourth side of the pit will be fenced.

#### 10. Plans for Reclamation of the Surface

A. In a timely manner, after finishing the drilling and/or completion operations all equipment and other material not needed for production operations will be removed.

The location will be cleared of all trash and debris then any ruts, etc. will be filled. The cellar will be filled around the wellhead.

- B. Any pits containing fluids will be fenced until they are filled. The NMOCD pit netting rules will be followed. The reserve pits will be reclaimed by deep burying the drill cuttings. The pit area will be leveled and contoured to conform to the surrounding area. A stockpile of topsoil from the location construction will be evenly distributed over the disturbed area. Re-vegetation procedures will comply with BLM standards.
- C. Upon abandonment of the well, surface restoration will be in accordance with the surface owner requirements and will be accomplished as expediently as possible.

#### 11. Surface Ownership

The surface for the wellsite location is owned by the U.S. Government and is administered by the BLM.

#### 12. Additional Information

- A. Topography: Gently rolling grassland.
- B. Vegetation includes mesquite, catclaw, creosote, broom snakeweed, various cacti, shin oak, sand sage, narrowleaf yucca and mixed grasses.
- C. The soil is a sandy loam.
- D. Primary use of the land is livestock grazing and accessing producing wells.
- E. There are no nearby dwellings.
- F. An archeological block survey has been scheduled and a copy of the report will be forwarded to the BLM from the archeologist.
- G. The selected dirt contractor will be furnished with an approved copy of the Surface Use Plan and any additional stipulations prior to beginning any work.

#### 13. Operator's Representatives

J.E. Shields ARCO Permian P. O. Box 1610 Midland, Texas 79702 (915)688-5574

#### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar will the conditions which currently 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 ARCO Permian and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

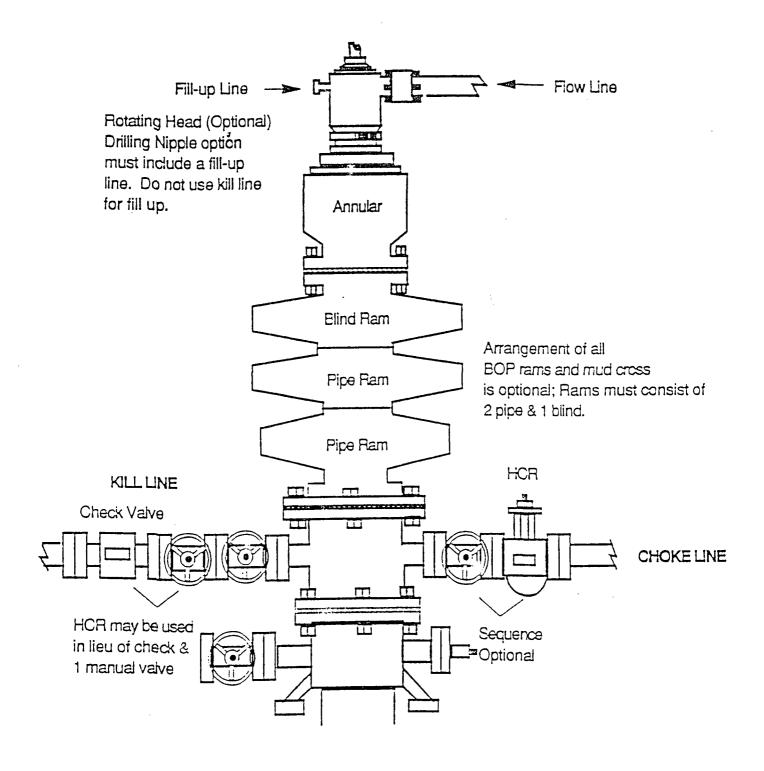
Johnny Shieds-ARCO Permian Drilling Manager

Date

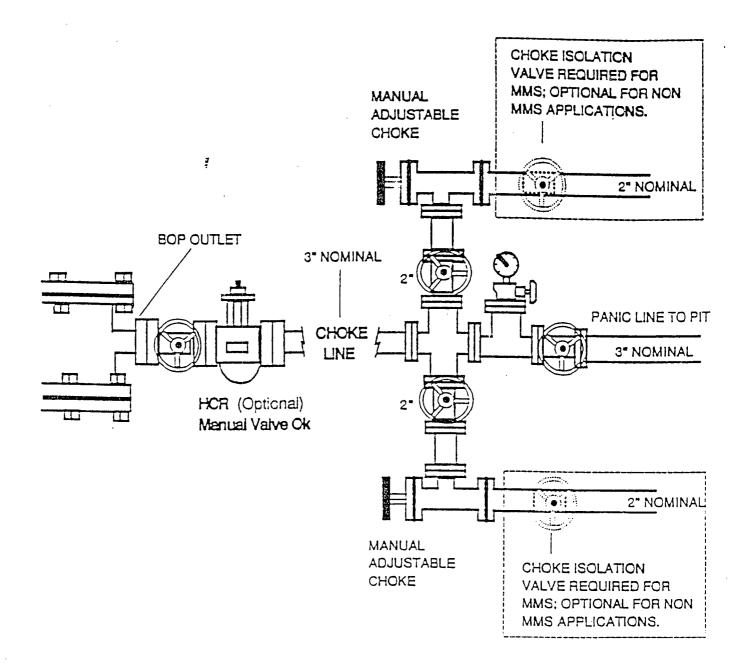
#### DRILLING OPERATIONS

CLASS-1: NORMAL PRESSURE < 10PPG

OPTION - 2: MMS STANDARD; SINGLE SZE DRILL STRING



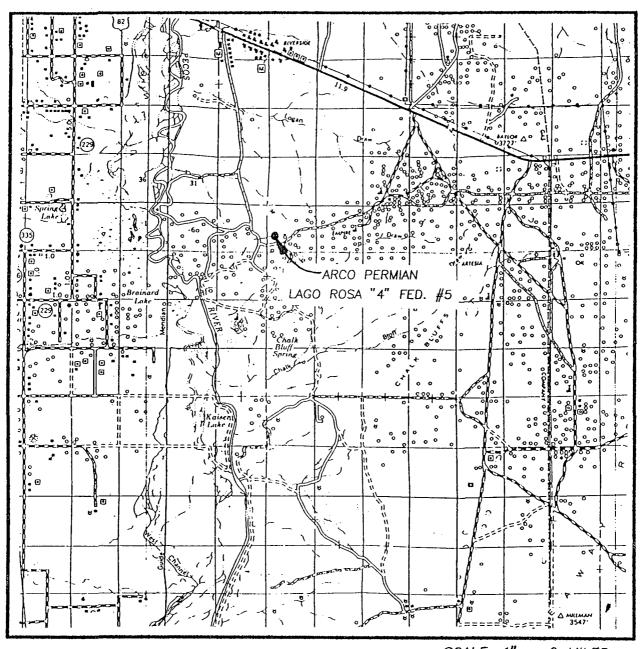
## DRILLING OPERATIONS CHOKE MANIFOLD 2M AND 3M SERVICE



#### BLOWOUT PREVENTION EQUIPMENT SPECIFICATIONS

- 1. All BOP equipment shall be fluid and/or mechanically operated.
- 2. BOP's and all fittings will be in good working condition.
- 3. Equipment through which the bit must pass shall be at least as large as the casing size being drilled.
- 4. The nipple above the BOP shall be at least the same size as the last casing set.
- 5. The upper kelly cock with handle and lower kelly cock shall be rated at the BOP working pressure.
- 6. A floor safety valve (full opening) or drill string BOP with appropriate pressure ratings shall be available on the rig floor with connections or subs to fit any tool joint in the string.
- 7. The minimum size choke line shall be 3 inches nominal diameter, with a minimum size for vent lines downstream of chokes of 2 inches nominal, and vent lines which by-pass shall be a minimum of 3 inches nominal and as straight as possible.
- 8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.
- 9. Minimum size for kill line is 2 inches nominal.
- 10. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.

## VICINITY MAP

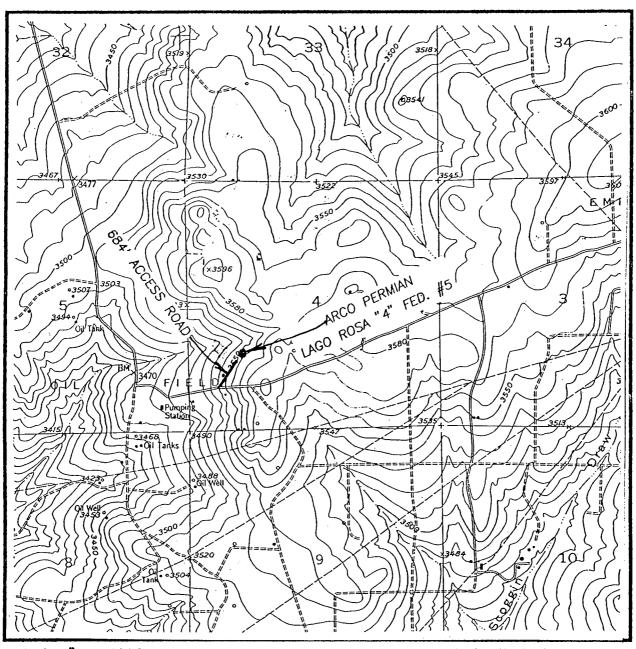


SCALE: 1'' = 2 MILES

SEC. 4	TWP. 18-S RGE. 27-E
SURVEY	N.M.P.M.
COUNTY	EDDY
DESCRIPTION	1 1550' FSL & 1115' FWL
ELEVATION_	3540'
OPERATOR_	ARCO PERMIAN
LEACE	LACO DOCA "A" EED

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

## LOCATION VERIFICATION MAP



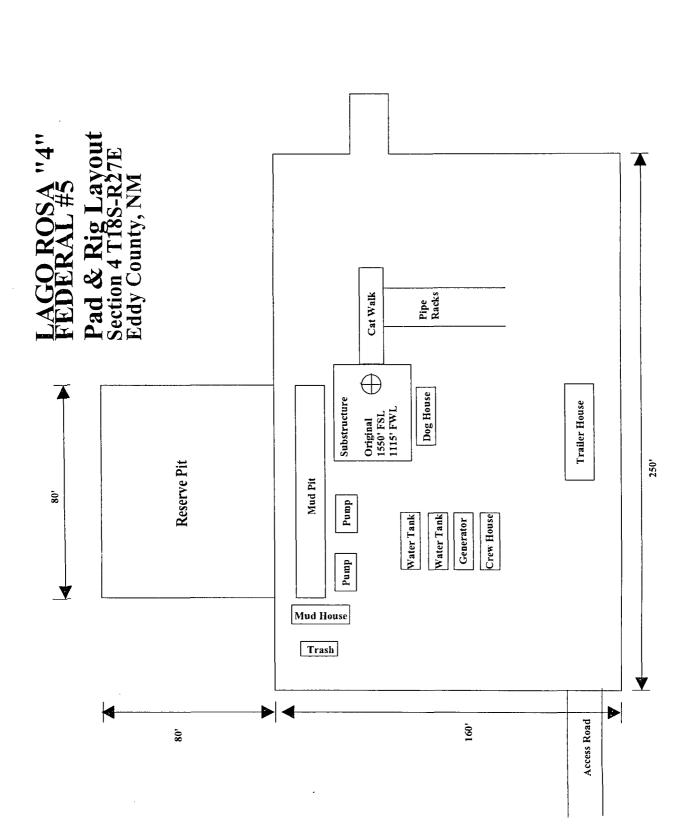
SCALE: 1'' = 2000'

CONTOUR INTERVAL - 10'

SEC. 4 TWP. 18-S RGE. 27-E
SURVEY N.M.P.M.
COUNTYEDDY
DESCRIPTION 1550' FSL & 1115' FWL
ELEVATION 3540'
OPERATOR ARCO PERMIAN
LEASE LAGO ROSA "4" FED.
U.S.G.S. TOPOGRAPHIC MAP
SPRING LAKE, N.M.

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

Votes Per mies Enxon	ABO CHALK BLUFF Neorbu	26874 Nyarburg arg Tring-Fed	a sufficient	
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3/20 Stagner acquiesced and will approx on Am 10.

March 11, 1998

### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

RECEIVED

MAR 1 6 1998

REGULATORY

**ARCO** Permian P. O. Box 1610 Midland, Texas 79702-1610

Attention:

Elizabeth A. Casbeer

OIL CONSERVATION DIVISION

Re: Application for administrative approval of an unorthodox oil well location for the Lago Rosa "4" Federal Well No. 5 to be drilled 1550 feet from the South line and 1115 feet from the West line (Lot 16/Unit L) of Section 4, Township 18 South, Range 27 East,

> NMPM, Red Lake Queen-Grayburg-San Andres Pool, Eddy County, New Mexico.

Dear Ms. Casbeer:

The subject location is subject to the statewide rules and regulations for oil wells, as promulgated by Rule 104.C(1), which provides for 40-acre oil spacing and proration units, or drilling units, and requires that wells be located no closer than 330 feet to the outer boundary of such 40-acre tract. The information provided is inadequate, it initially appears that locations within this standard window are acceptable and that the drilling of this well would serve only to encroach upon another lease not belonging to ARCO Permian, which could adversely affect correlative rights (see Section 70-2-11.A, NMSA 1978).

Should ARCO Permian wish to pursue this request further please submit the following:

- detailed information to support the drilling of this unorthodox (1) location;
- a detail explanation with adequate supporting data explaining your claim that no standard locations within Lot 16 (Unit L) of said Section 4 are available to ARCO Permian:
- how drainage from this well will or will not affect the offsetting lease or leases; and,
- (4) why directional drilling to a standard bottomhole location is not an option.

Thank you.

Sincerely

Michael E. Stogner

Chief Hearing Officer/Engineer

New Mexico Oil Conservation Division - Artesia cc: U. S. Bureau of Land Management - Carlsbad Kathy Valdes, NMOCD - Santa Fe

- (i) Affected parties in this instance shall be defined as those parties who own interests in the applicable half quarter section (80-acre spacing), quarter section (160-acre spacing), half section (320-acre spacing), or section (640-acre spacing) in which the non-standard spacing unit is situated and which acreage is not included in said non-standard spacing unit;
- (ii) the designated operator of any adjoining or diagonal spacing unit producing from the same pool(s) as the proposed non-standard spacing unit;
- (iii) in the absence of an operator, all lessees of record of any diagonal or adjoining lease owning interests in the same pool(s) as the proposed non-standard spacing unit; and
- (iv) in the absence of an operator or lessee, then to all owners of record of unleased mineral interests. [5-25-64...2-1-96]
- (d) The applicant shall submit a statement attesting that applicant, on or before the same date the application was submitted to the Division, has sent notification to the affected parties by submitting a copy of the application, including a copy of the plat described in Subpart (c) above by certified or registered mail-return receipt in accordance with Rule 1207(6) (a) advising them that if they have an objection it must be filed in writing within twenty days from the date notice was sent. The Division Director may approve the non-standard spacing unit upon receipt of waivers from all said parties or if no said party has entered an objection to the non-standard spacing unit within 20 days after the Director has received the application.

  [5-25-64...2-1-96]
- (e) The Division Director may set any application for administrative approval for a non-standard spacing unit for public hearing. [5-25-64...2-1-96]
- (3) Number of Wells Per Spacing Unit in Non-Prorated Gas Pools:
  Unicss otherwise permitted by special pool rules or authorized after notice
  and hearing, only one (1) well per spacing unit is permitted in non-prorated
  pools. [5-25-64...2-1-96]
- 104.E. Form C-102, "Well Location and Acreage Dedication Plat", for any well shall designate the exact legal subdivision allotted to the well and Form C-101, "Application for Permit to Drill, Deepen, or Plug Back", will not be approved by the Division without such proper designation of acreage. [12-29-52...2-1-96]

# 104.F. UNORTHODOX LOCATIONS

(1) Well locations for producing wells and/or injection wells which are unorthodox based on the well location requirements of Rule 104.C(1)(a) above and which are necessary to permit the completion of an efficient production and injection pattern within a secondary recovery, tertiary recovery, or pressure maintenance project are hereby authorized, provided that any such unorthodox location within such project is no closer than the required minimum orthodox distance to the outer boundary of the lease or the unitized area, nor closer than 10 feet to any quarter-quarter section line or subdivision inner boundary. Such locations shall only require such prior approval as is necessary for an orthodox location. [1-1-50...2-1-96]

- exception to the well location requirements of Sections 104.B and 104.C above or to the well location requirements of Sections 104.B and 104.C above or to the well location requirements of special pool rules without notice and hearing when the necessity for such unorthodox location is based upon geologic conditions, archaeological conditions, topographical conditions, or the recompletion of a well previously drilled to a deeper horizon provided said well was drilled at an orthodox or approved unorthodox location for such original horizon. [1-1-82...2-1-96]
- (3) Applications for administrative approval of unorthodox locations pursuant to Rule 104.F(2), above, shall be accompanied by a plat showing the subject spacing unit, its proposed unorthodox well location, the diagonal and adjoining spacing units and/or leases (whichever is applicable) and wells, and a list of affected parties. If the proposed unorthodox location is based upon topography or archaeology, the plat shall also show and describe the existent topographical or archaeological conditions. If the proposed unorthodox location is based upon geology, the application shall include appropriate geologic exhibits and a discussion of the geologic conditions which result in the necessity for the unorthodox location. [2-9-66...2-1-96]
- (a) Adjoining and diagonal spacing units shall be defined as those immediately adjacent existing spacing units in the same pool(s) as the proposed unorthodox well and towards which the unorthodox well location encroaches. [2-9-66...2-1-96]
- (b) Affected parties shall be defined as those parties who own interests in leases or operate wells on adjoining or diagonal spacing units and include:
- (i) the designated operator of any adjoining or diagonal spacing unit producing from the same pool(s) as the proposed well;
- (ii) in the absence of an operator, all lessees of record of any diagonal or adjoining lease owning interests in the same pool(s) as the proposed well; and
- (iii) in the absence of an operator or lessee, all owners of record of unleased mineral interests in the same pool(s) as the proposed well. [2-9-66...2-1-96]
- applicant, on or before the same date the application was submitted to the Division, has sent notification to the affected parties by submitting a copy of the application, including a copy of the plat described in Rule 104.F(3) above by certified or registered mail-return receipt in accordance with Rule 1207(A)(5) advising them that if they have an objection it must be filed in writing within twenty days from the date notice was sent. The Division Director may approve the unorthodox location upon receipt of waivers from all said parties or if no said party has entered an objection to the unorthodox location within 20 days after the Director has received the application. [2-9-66...2-1-96]
- (5) The Division Director may set any application for administrative approval of an unorthodox location for public hearing, and may require that a directional survey be run in the unorthodox well to establish the actual location of the producing interval(s). [1-1-82...2-1-96]
- 104.G. Whenever an exception is granted, the Division may take such action as will offset any advantage which the person securing the exception may obtain over other producers by reason of the unorthodox location. [1-1-50...2-1-96]
- 14.H. If the drilling tract is within an allocated oil pool or is

- (i) Affected parties in this instance shall be defined as those parties who own interests in the applicable half quarter section (80-acre spacing), half section (320-acre spacing), or section (60-acre spacing), spacing unit is situated and which the non-standard spacing unit is said non-standard spacing unit;
- ii) the designated operator of any adjoining or diagonal spacing unit producing from the same pool(s) as the proposed non-standard spacing unit;
- (iii) in the absence of an operator, all lessees of record of any diagonal or adjoining lease owning interests in the same pool(s) as the proposed non-standard spacing unit; and
- (iv) in the absence of an operator or lessee, then to all owners of record of unleased mineral interests. [5-25-64...2-1-96]
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- (e) The Division Director may set any application for administrative approval for a non-standard spacing unit for public hearing. [5-25-64...2-1-96]
- Unless otherwise permitted by special pool rules or authorized after notice and hearing, only one (1) well per spacing unit is permitted in non-prorated pools. [5-25-64...2-1-96]
  - any well shall designate the exact legal subdivision allotted to the well and Porm C-101, "Application for Permit to Drill, Deepen, or Plug Back", will not be approved by the Division without such proper designation of acreage.

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- exception to the well location requirements of Sections 104.B and 104.C above or to the well location requirements of Sections 104.B and 104.C above or to the well location requirements of special pool rules without notice and hearing when the necessity for such unorthodox location is based upon geologic conditions, archaeological conditions, topographical conditions, or the recompletion of a well previously drilled to a deeper horizon provided said well was drilled at an orthodox or approved unorthodox location for such original horizon. [1-1-82...2-1-96]
  - locations pursuant to Rule 104.F(2), above, shall be accompanied by a plat showing the subject spacing unit, its proposed unorthodox well location, the diagonal and adjoining spacing units and/or leases (whichever is applicable) and wells, and a list of affected parties. If the proposed unorthodox location is based upon topography or archaeology, the plat shall also show and describe the existent topographical or archaeological conditions. If the proposed unorthodox location is based upon geologic conditions in the proposed unorthodox location is based upon geologic to the application shall include appropriate necessity for the unorthodox location. [2-9-66...2-1-96]
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- 104.H. If the drilling tract is within an allocated oil pool or is

## Facsimile Cover Sheet Referred 3/20

To: Michael Stogner

Company: NMOCD, Santa Fe

Phone: 505-827-8185 Fax: 505-827-8177

From: Dave Pearcy

Company: ARCO Permian

Phone: 915-688-5355 Fax: 915-688-5246

Date: 3/19/98, 3:30pm

Pages including this \$5

cover page:

Re: OCD request on Red Lake Unorthodox locations (REVISED) (Michael: Following text is corrected fm earlier today. Keep all prior attachments, however, and add the 3 new ones here)

As shown in the attached itr fm Barry Hunt, the BLM will now allow us an orthodox location for our West Red Lake 4 Fed #2. We will resubmit this as a sundry notice to BLM, and the unorthodox request will be dropped.

The Lago Rosa 4# Fed 5, according to BLM, cannot be moved to any orthodox spot in the SE quadrant of this 38.85-ac tract (Lot 16). We believe the staked location, which falls 277' FSL and 200' FEL of Lot 16 is the most feasible spot, and request your reconsideration for admin approval.

Has Devon objected? Devon told me they would not, and that they have similar unorthodox locations. As of July, Devon and predecessors had produced 347 MBO from Q-G-SA pays in the eight 40-acre tracts surrounding us, and was currently producing 222

MAR. 20. 1998 7: 23AM

NO.305 P.175

HECO PERMIAN

BOPD from thirteen producers with two more wells now completing. We need two optimally-spaced wells on Lot 16 to protect us from any further competitive drainage in the Red Lake (Q-G-SA) pool. In spite of proximity to the leaseline, drainage from the proposed well will only capture our remaining reserves, and not affect the offsetting leases.

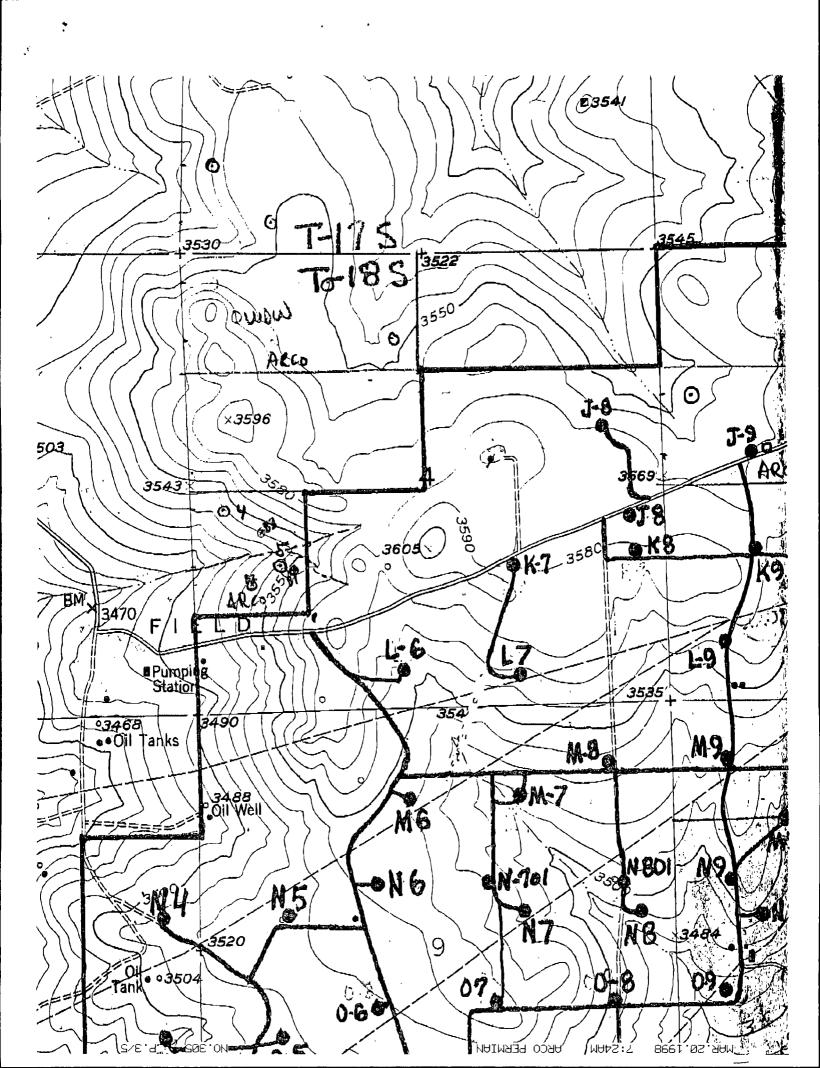
The topo map shows how an E-W gully severely limits available locations on Lot 17. BLM's 2d alternate is even more unorthodox. The BLM's 3d alternate (1980 FSL and 790 FWL) would be orthodox, but is only 514' away from our approved standard location for Fed #4 (2210 FSL and 330 FWL), and we believe that well spacing any closer than 700' is wasteful. Mr. Hunt told me today he does not think topography would allow his alt#3 to be shifted south or east to attain our 700' minimum.

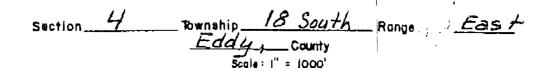
Directional drilling would add 100M\$ to our wellcost, and makes these wells uneconomic.

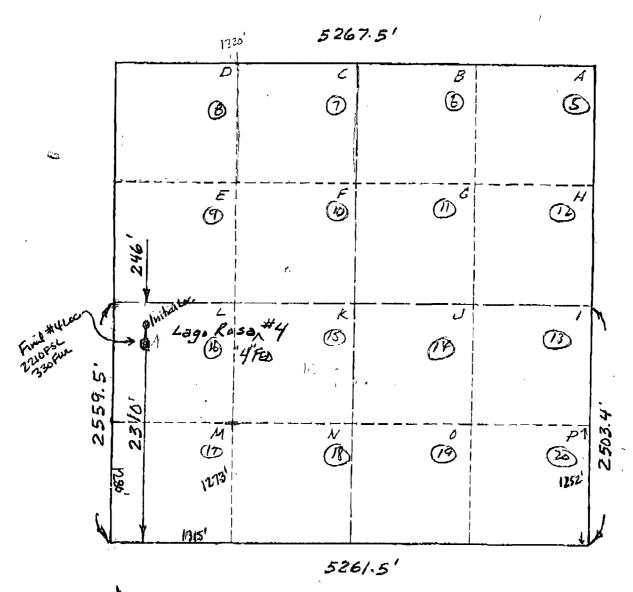
3:30pm: added West Engineering's plat for Sec 4, and ARCO engineer's sketch. Darker topo map is annotated with our original #5 loc, B1=BLM's revision that is requested, and B2 and B3 as BLM alternates.

Will this be adequate for us to resubmit for admin approval?

Thank you. Dave







The fact 327 for all 197

127386L

4

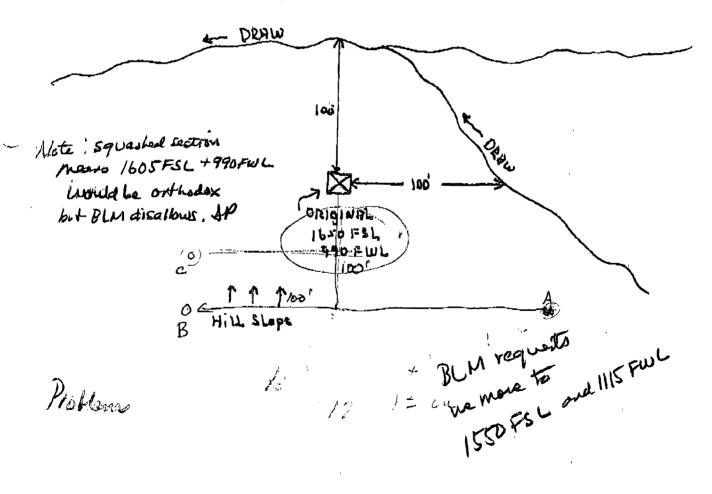
MAR. 20.1998 7:24AM ARCO PERMIAN

ARCO Permian		General Purpose Workshee
		PAge No. of
File	<b>A</b>	By D. Walker   Dall 10/97
	n i	·

LAGO ROSA 4 FED \*5

Y DOOR WEST

Bring Road in From South 14 mile



Chalk Bluff Rd



ARCO Permian 600 North Marienfeld Midland TX 79701-4373 Post Office Box 1610 Midland TX 79702-1610 Telephone 915 688 5570

Elizabeth A. Casbeer Regulatory/Compliance Analyst

March 27, 1998

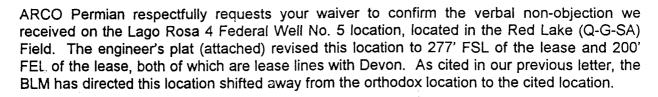
Devon Energy Corporation ATTN: Ken Gray, Landman 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

RE:

Lago Rosa 4 Federal Well No. 5

1550' FSL & 1115' FWL Sec 4, T-18-S, R-27-E Eddy, Co., NM

Mr. Gray:



Please submit with original signature, one copy of this letter, to the NMOCD, and one copy to ARCO in the enclosed self addressed envelopes. Your expeditious handling of this situation is appreciated.

If you have any questions, please contact me at 915/688-5570. Thank you for your assistance in this matter.

Yours very truly,

Elizabeth A. Casbeer

Regulatory Compliance Analyst

**Attachments** 

XC:

Dave Pearcy - 61123/MIO

Central Files - 041/MIO

R/C Files

\_\_\_\_\_\_\_

**WAIVERS:** 

Devon Energy Corrporation has no objection to the cited location.

Signed the ZND day of MRIL, 1998

Rv.

Title: DATELY LANDMON

Section  $\frac{4}{Eddy}$  Township  $\frac{18 South}{E county}$  Range  $\frac{East}{East}$ 

5267.51

