



David L. Wacker  
Division Manager  
Hobbs Division  
Exploration and Production, North America

Conoco Inc.  
726 East Michigan  
P.O. Box 460  
Hobbs, NM 88241  
(505) 397-5800

September 27, 1989

Oil Conservation Division  
Energy, Minerals and Natural Resources Dept.  
Post Office Box 2088  
Santa Fe, New Mexico 87504

Attention: Mr. David Catanach

Dear Mr. Catanach:

Jicarilla "30" SWD Well No. 1,  
Request to Amend Order SWD-140

In response to your letter of September 15 and as support for amending the Division's Administrative Order SWD-140 to allow injection into the entire Mesa Verde interval from 4846 feet to 5586 feet, we offer the following information.

1. Area of Review - One Half Mile Radius. Exhibit A outlines a map showing all wells within a 1/2 mile radius of the subject well. Exhibit B is a brief description of wells within the 1/2 mile radius which do not penetrate the injection interval and construction information on all wells within the area that penetrate the injection interval.
2. Area of Review - Two Mile Radius. Exhibit C is a map showing all wells within a 2 mile radius of the subject well. There is no Mesa Verde production within this area and there is limited, if not non-existent, Mesa Verde potential. Exhibit D is a review of the Mesa Verde production and potential.
3. Proof of Notice. The only offset operator within a 1/2 mile radius is Meridian Oil Inc. Attached as Exhibit E is a copy of the notification letter sent to Meridian, the certified mailing receipt and their response, indicating they have no objection to our application for a permit to the EPA, which is essentially for the same terms as our request for a revision to the Order.
4. Publication Notice. Exhibit F documents Conoco's placement of a description of our proposed amendment to the existing order in the Rio Grande Sun newspaper in Espanola, Rio Arriba County. We anticipate this will be published October 1 through 7 and will forward a copy of the published article upon receipt.

Oil Conservation Division

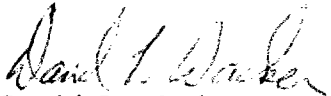
Page 2

September 27, 1989

Also enclosed for your information, is a copy of a graph and supporting data showing the results of the step-rate test which was performed on August 17. The test was run at a maximum stabilized rate of 2.6 barrels per minute with a corresponding pressure of 1880 psi. The consistently increasing pressure with no break-over point indicates that new fractures are not being created nor are existing fractures being propagated.

Thank you for the authorization to resume injection into the well pending amendment of this order. We believe the information provided demonstrates protection of USDW's and protection of the injection interval. If there is any other information required for amending this order, please call Hugh Ingram or Judy McLemore at (505)397-5800.

Yours very truly,

A handwritten signature in cursive script, appearing to read "David L. Wacker".

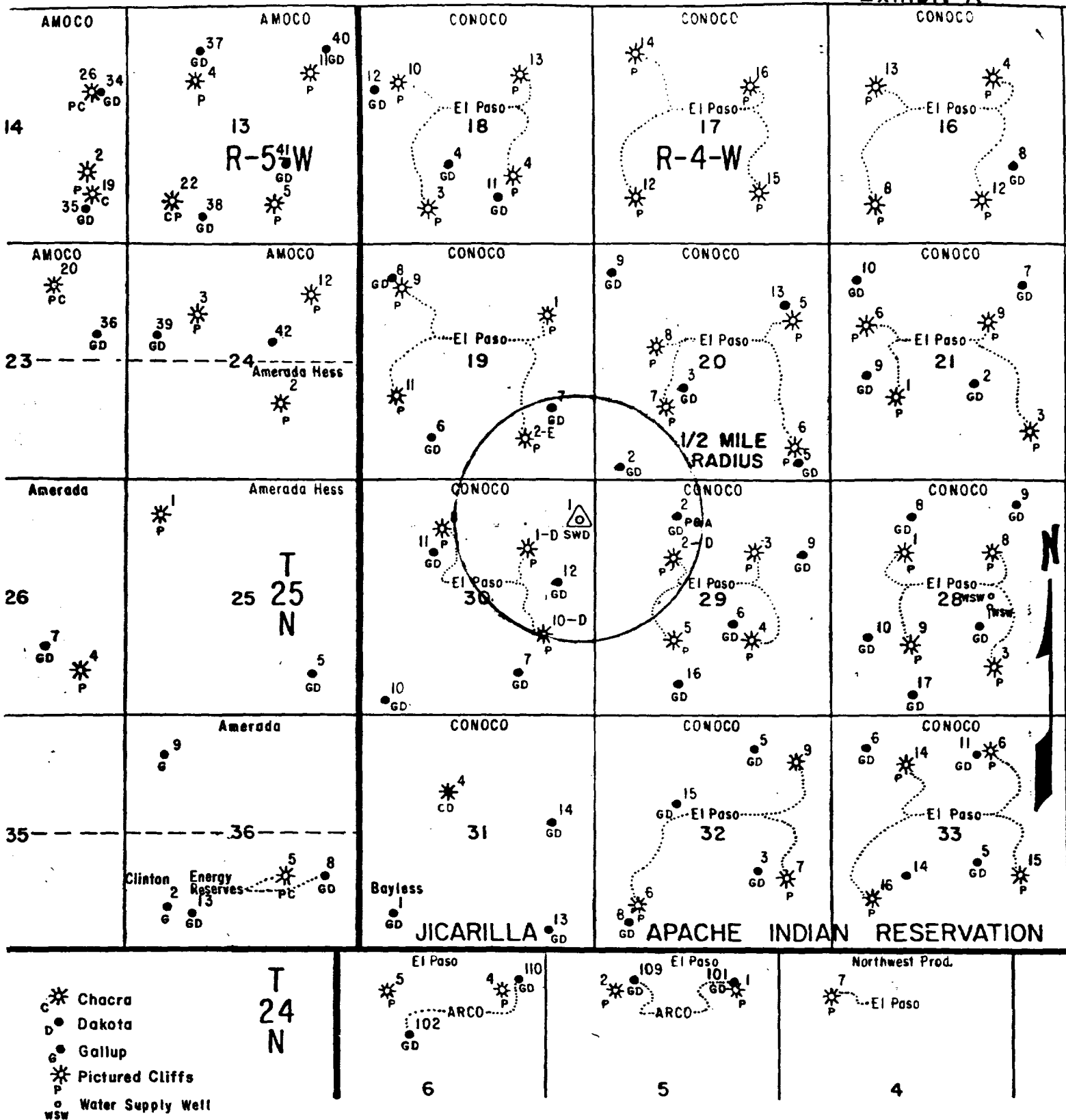
David L. Wacker  
Division Manager

JAM/tm

cc:

RLT CMN

Exhibit A



# JICARILLA 30 LEASE--WELL NO.1

# Rio Arriba County, New Mexico

WELLS WITHIN 1/2 MILE OF INJECTION WELL  
NOT PENETRATING THE INJECTION ZONE

WELL NAME:	JICARILLA 2-E
LOCATION:	890' FSL, 1550' FEL, SEC. 19, T25N, R4W
ELEV:	7340' DF
TD:	3663'
PBTD:	3650'
OPERATOR:	Meridian Oil Inc.
WELL NAME:	JICARILLA 2-D
LOCATION:	1750' FNL, 1750' FWL, SEC. 29, T25N, R4W
ELEV:	7023' DF
TD:	3315'
PBTD:	3265'
OPERATOR:	Meridian Oil Inc.
WELL NAME:	JICARILLA NO. 1-D
LOCATION:	1550' FNL, 1500' FEL, SEC. 30, T25N, R4W
ELEV:	7070' DF
TD:	3340'
PBTD:	3260'
OPERATOR:	Meridian Oil Inc.
WELL NAME:	JICARILLA NO. 10-D
LOCATION:	1760' FSL, 1150' FWL SEC 30, T25N, R4W
ELEV:	7032' DF
TD:	3529'
PBTD:	3517'
OPERATOR:	Meridian Oil Inc.

TABULATION OF WELLS WITHIN 1/2 MILE OF INJECTION WELL  
WHICH PENETRATE THE INJECTION ZONE

WELL NAME: Jicarilla 30 No. 12						
OPERATOR: Conoco Inc.						
LOCATION: 2210' FNL, 990' FEL, Sec. 30, T25N, R4W						
Rio Arriba County, NM						
DATE DRILLED: 01/03/79		TD: 7805'		CURRENT PRODUCTION		
DATE COMPLETED: 04/26/79		PBTD: 7737'		BOPD	BWPD	MCFD
SURFACE ELEV: 7021'		STATUS: ACTIVE		5	2	96
DATUM: 14' AGL						
HOLE SIZE	CASING RECORD SIZE GRADE WEIGHT DEPTH				CEMENT SIZE QUANTITY CEMENT & ADDITIVES	TOC
12-1/4"	8-5/8"	K-55	24#/ft	0-992'	400 sks class "B" w/4% gel, 2% CaCl, and 1/4#/sk flocele 150 sks class "B" w/2% CaCL, and 1/4#/sk flocele	surface (circ.)
7-7/8"	5-1/2"	K-55	15.5#/ft 17.0#/ft	0- 7805'	1st Stage: 400 sks lightweight cement w/2% CaCl, .75% CFR-2, 1/4#/sk flakes 350 sks class "B" w/2% CaCl, 1/4#/sk flakes 2nd Stage: 325 sks lightweight cement w/2% CaCl, 1/4#/sk flakes	1820' temp. survey
Additional Detail:						
Squeeze Cement through defective DV Tool					300 sks class "B" w/2% CaCl and 1/10% fluid loss additive	
Formations Open to Wellbore:						
Gallup: 6597', 6599', 6601', 6603', 6628', 6630', 6632', 6634', 6636', 6638', 6665', 6667', 6669' w/ 1 JSPF.						
Dakota: 7430', 7432', 7434', 7436', 7438', 7440', 7570', 7572', 7574', 7576', 7584', 7586', 7616', 7618', 7620', 7622' w/ 1 JSPF.						

TABULATION OF WELLS WITHIN 1/2 MILE OF INJECTION WELL  
WHICH PENETRATE THE INJECTION ZONE

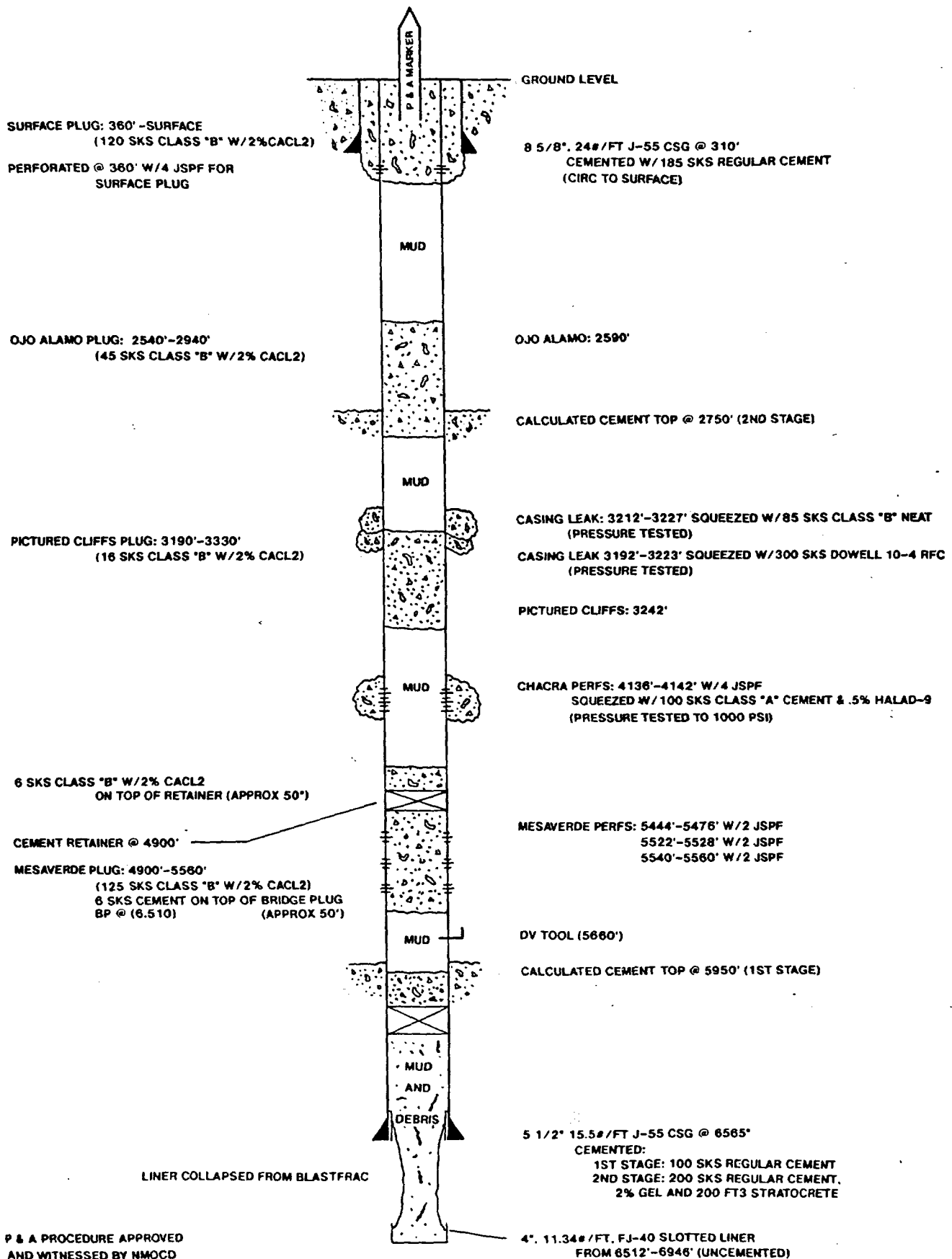
WELL NAME: Jicarilla 20 No. 2 OPERATOR: Conoco Inc. LOCATION: 349' FSL, 596' FWL, Sec. 20, T25N, R4W Rio Arriba County, NM							
DATE DRILLED: 02/02/59		TD: 7237'		CURRENT PRODUCTION			
DATE COMPLETED: 03/09/59		PBTD: 7237'		BOPD	BWPD	MCFD	
SURFACE ELEV: 7303'		STATUS: ACTIVE		1	0	17	
DATUM: 12' AGL							
HOLE SIZE	CASING RECORD SIZE GRADE WEIGHT DEPTH	CEMENT SIZE QUANTITY CEMENT & ADDITIVES	TOC				
17-1/4"	13-3/8" H-40 48#/ft 0-111'	175 sks Regular cement	surface (circ.)				
7-7/8"	5-1/2" K-55 14.0#/ft 0- 15.5#/ft 7020' DV TOOL @ 3696'	1st Stage: 320 sks Regular cement w/2% gel and 325 ft3 stratacrete 2nd Stage: 125 sks Regular cement w/2% gel and 125 ft3 stratacrete	4900' calc.				
4-3/4"	4-1/2" Grade E 12.93#/ft 7008' -7224'						
Additional Cement Detail: Block squeeze @ 5149', 5336', 5608' to prepare to perf Mesaverde interval Squeezed cement into Mesaverde perfs from 5149'-5210' (Unproductive) Squeezed cement into Mesaverde perfs from 5550'-5850' (Unproductive)		300 sks 100 sks at each depth 100 sks class "C" 600 sks class "C"					
Formations Open to Wellbore:  Gallup: 6860'-6870', 6880'-6915', 6940'-6980' w/4 JSPF 6870'-6880', 6932'-6940', w/8 JSPF 7008'-7224' perforated liner.							

TABULATION OF WELLS WITHIN 1/2 MILE OF INJECTION WELL  
WHICH PENETRATE THE INJECTION ZONE

WELL NAME: Jicarilla 30 No. 2 OPERATOR: Conoco Inc. LOCATION: 810' FNL, 1825' FWL, Sec. 29, T25N, R4W Rio Arriba County, NM					
DATE DRILLED: 11/19/63 DATE COMPLETED: 12/19/63 SURFACE ELEV: 7025' DATUM: 11' AGL		TD: 6946' PBTD: 0 STATUS: P&A'd		CURRENT PRODUCTION BOPD      BWPD      MCFD 0           0           0	
HOLE SIZE	CASING RECORD SIZE    GRADE    WEIGHT    DEPTH	CEMENT SIZE QUANTITY    CEMENT & ADDITIVES	TOC		
12-1/4"	8-5/8" J-55    24#/ft    0-310'	185 sks    Regular cement	surface (circ.)		
7-7/8"	5-1/2" J-55    15.5#/ft    0-6565'  DV TOOL @ 5660'	1st Stage: 100 sks    Regular cement 2nd Stage: 200 sks    Regular cement w/2% gel and 200 ft3 stratacrete	2750' calc.		
4-5/8"	4"      FJ-40    11.34#/ft    6512' - SLOTTED                                -6946'	UNCEMENTED			
Additional Detail:  ATTACHED WELLBORE SCHEMATIC SHOWS ADDITIONAL CEMENT DETAIL AND HOW THE WELL WAS P&A'd					
Formations Open to Wellbore:  NONE					

## JICARILLA 30 NO. 2

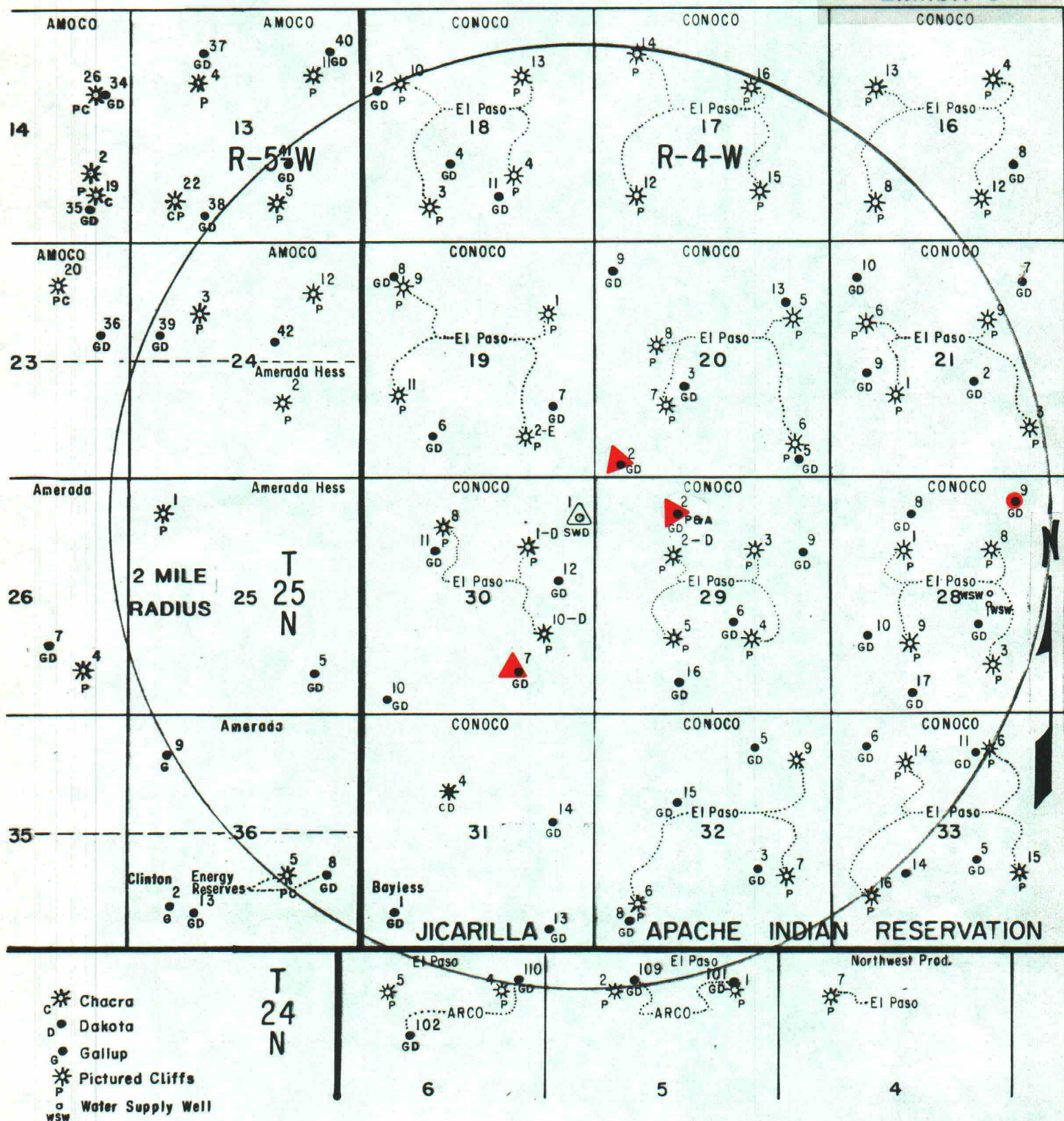
810' FNL, 1825' FWL  
SEC. 29, T25N-R4W  
RIO ARriba COUNTY, NM



NOTE: P & A PROCEDURE APPROVED  
AND WITNESSED BY NMOC

RLT





## JICARILLA 30 LEASE--WELL NO.1

Rio Arriba County, New Mexico  
MESA VERDE PRODUCTION REVIEW  
2 MILE RADIUS

REVIEW OF MESAVERDE PRODUCTION  
WITHIN A 2 MILE RADIUS OF THE  
JICARILLA 30 NO. 1 SWD WELL

Currently, there is not any Mesaverde production within a 2 mile radius of the Jicarilla 30 No. 1 SWD well. Additionally, there is not much development potential for Mesaverde production within this area of review. Non-commerciality of the Mesaverde interval has already been established with a series of tests near the Jicarilla 30 No. 1 and are discussed below:

Jicarilla 20 No. 2 (7/72)

Attempted to dual Mesaverde with Gallup/Dakota production. The Mesaverde interval, however, tested at 68-167 BWPD, 0 MCFD and was subsequently squeeze cemented

Jicarilla 30 No. 2 (9/81)

Perforated the Mesaverde from 5444'-5560' and converted well to SWD.

Jicarilla 30 No. 7 (8/88)

Attempted to dual Mesaverde with Gallup/Dakota production. Selectively tested the Point Lookout and Cliffhouse formations within the Mesaverde interval. Both sands proved non-commercial and were squeeze cemented.

A major effort to identify Mesaverde potential on the Jicarilla 20, 22, 28 and 30 leases was undertaken in 1987 by Conoco. As a result of the study, the Jicarilla 30 No. 7 was identified as a potential recompletion candidate based on Mesaverde sand development and log response across the Mesaverde interval. The Jicarilla 30 No. 7 was selected as an experimental well in which a successful test would prove up and justify additional work on offsetting wells. However, the unfavorable results of the Mesaverde test coupled with negative results from the other two above mentioned tests eliminated any hopes of future development potential on the Jicarilla 20 and 30 leases. A successful test of the Jicarilla 22-12 has led to Mesaverde development on the Jicarilla 22 lease and a Mesaverde test is planned for the Jicarilla 28 lease. However, only one well completed or identified as having Mesaverde potential is located in the two mile review area and it will not be affected by continued injection of water in the Jicarilla 30 No. 1.



Hobbs Division  
Exploration and Production, North America

Conoco Inc.  
726 East Michigan  
P.O. Box 460  
Hobbs, NM 88241  
(505) 397-5800

August 29, 1989

Mr. Robert Hopkins  
Meridian Oil Inc.  
P.O. Box 4289  
Farmington, NM 87449-4289

Dear Mr. Hopkins:

Application for EPA Underground  
Injection Control Permit for  
Jicarilla 30 No. 1

Conoco Inc. has been injecting produced water into the Jicarilla 30 No. 1 well since 1973 under authority granted by the Oil Conservation Division. The Environmental Protection Agency has assumed control of the Underground Injection Control program on Indian Lands, effective November 25, 1989. Therefore, Conoco will be applying for an EPA Permit for continuing injection in this well which is located in the Northwest quarter of Section 30, Township 25N, Range 4W, Rio Arriba County, New Mexico.

Conoco seeks a permit for injecting produced water into the Mesa Verde formation at approximately 4846' to 5586' KB at a maximum injection pressure of 1800 psig, a maximum rate of 1 barrel per minute, and a maximum volume range of 120 to 150 barrels per day. The fluid to be injected is produced water from the Pictured Cliffs, Chacra, Gallup Dakota, and Mesa Verde formations.

Wells producing the water are located on Conoco's Jicarilla 20, 22, 28, and 30 leases, the N.E. Haynes lease and the AXI Apache J, K, L, M, N, and O leases.

Opportunity to comment on Conoco's application will be announced after the EPA prepares a draft permit determination. The contact person within EPA is Mr. Gus Chavarria, Section Chief, Environmental Protection Agency, 1445 Ross Avenue, UIC Permits and Enforcement Section (6W-SE), Dallas, TX 75202-2733. EPA's phone number is (214) 655-7165.

Should you have any questions, you may contact Judy McLemore located at the Conoco Hobbs Division office's address listed above.

Yours very truly,

David L. Wacker  
Division Manager

JAM/tm

<p>● <b>SENDER:</b> Complete Items 1 and 2 when additional services are desired, and complete items 3 and 4.</p> <p>Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.</p> <p>1. <input type="checkbox"/> Show to whom delivered, date, and addressee's address. (Extra charge)      2. <input type="checkbox"/> Restricted Delivery (Extra charge)</p>	
<p>3. Article Addressed to:</p> <p>Mr. Robert Hopkins Meridian Oil Inc. P.O. Box 4289 Farmington, NM 87449-4289</p>	<p>4. Article Number</p> <p>P732945192</p>
<p>5. Signature — Address</p> <p>X</p>	<p>Type of Service:</p> <p><input type="checkbox"/> Registered      <input type="checkbox"/> Insured  <input checked="" type="checkbox"/> Certified      <input type="checkbox"/> COD  <input type="checkbox"/> Express Mail      <input type="checkbox"/> Return Receipt for Merchandise</p>
<p>6. Signature — Agent</p> <p>X <i>Loy Ruiz</i></p>	<p>Always obtain signature of addressee or agent and <b>DATE DELIVERED</b>.</p>
<p>7. Date of Delivery</p> <p>9/5/88 CA</p>	<p>8. Addressee's Address (ONLY if requested and fee paid)</p> <p>(JAM)</p>

MERIDIAN OIL

KLL

September 19, 1989

Conoco Inc.  
Attention: Mr. David L. Wacker  
Post Office Box 460  
Hobbs, New Mexico 88240

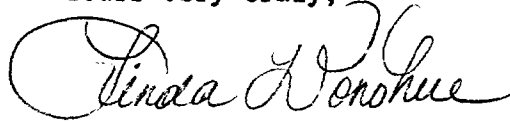
Re: Application for EPA Underground  
Injection Control Permit for  
Jicarilla 30 No. 1  
NW/4 Section 30, T25N, R4W  
Rio Arriba County, New Mexico

Dear Mr. Wacker:

This is to advise that Meridian Oil Inc. has no objection to Conoco's application for an EPA permit to continue to use the referenced well for injection.

Please contact the undersigned at 505-326-9760 if there are any questions relating to this matter.

Yours very truly,



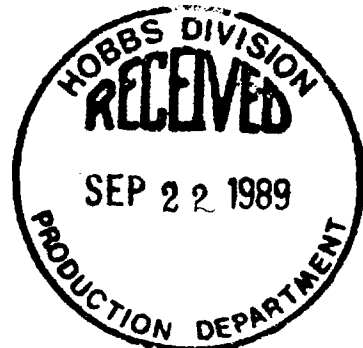
Linda Donohue  
Landman

LD:jf

Attachments

Doc. 18+

Conoco Correspondence



Hobbs Division  
Exploration and Production, North America

Conoco Inc.  
726 East Michigan  
P.O. Box 460  
Hobbs, NM 88241  
(505) 397-5800

September 22, 1989

Rio Grande Sun  
P.O. Box 790  
Española, NM 87532

Dear Sirs:

Legal Notification - Amend Division  
Order SWD-140

Notification to the public is required for the enclosed as a measure of compliance with the NMOCD. Please publish this article for one week in the "Legal Notice" section of your newspaper at the earliest possible date, approximately October 1-7, 1989.

Please forward a copy of this published article and your invoice to Ms. Kandy Lawson at the address shown above.

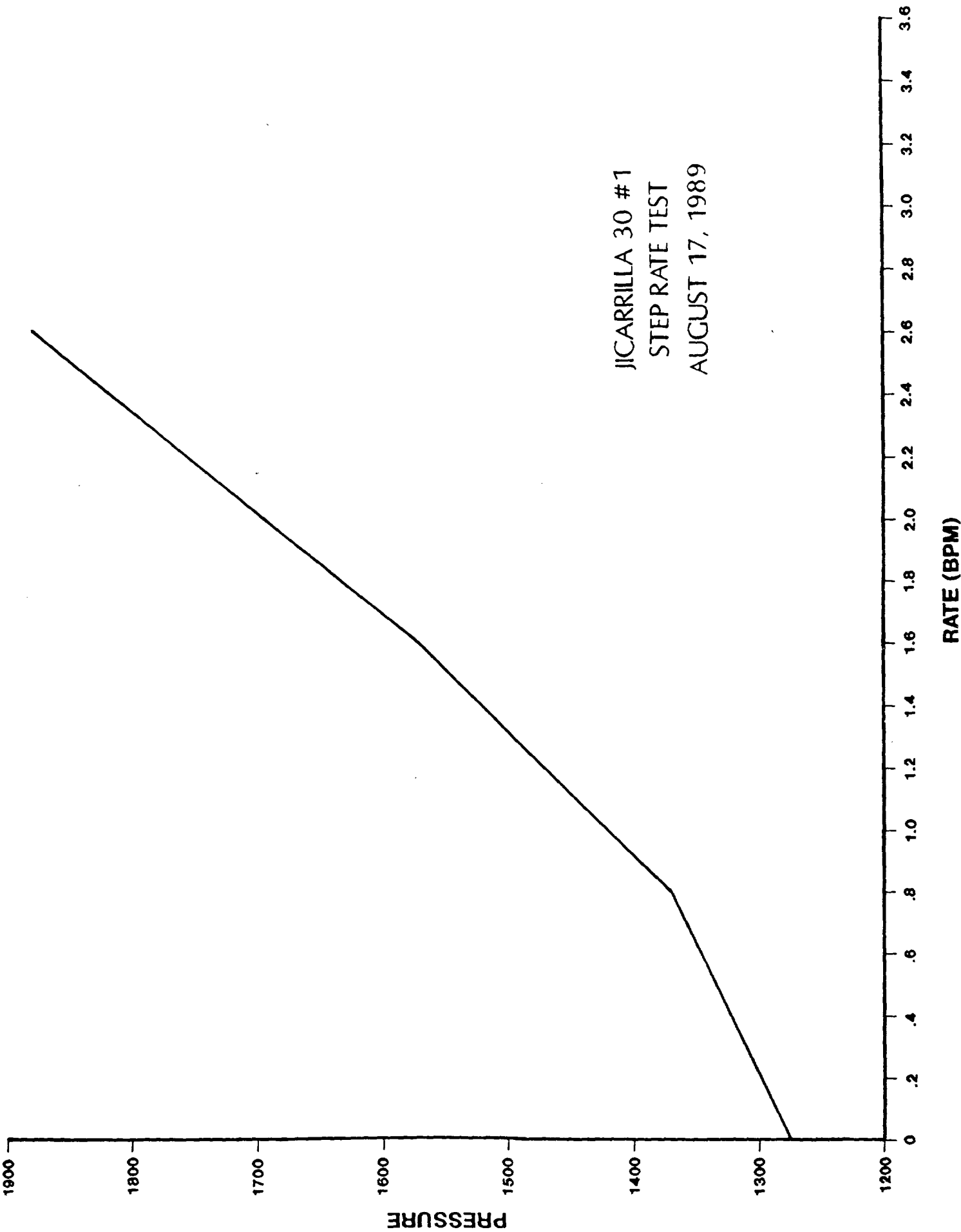
Yours very truly,

  
W. W. Baker  
Administrative Supervisor

KLL:tm  
Enc.

LEGAL NOTICE  
September 22, 1989  
EXPAND INJECTION INTERVAL  
IN SWD WELL

Conoco Inc., P.O. Box 460, Hobbs, New Mexico, Phone: (505) 397-5800, Mr. D. L. Wacker, Division Manager of Production, proposes to amend Division Administrative Order No. SWD-140 by expanding the injection interval for Jicarilla 30 #1, to include the entire Mesaverde interval from 4846 feet to 5586 feet. The Jicarilla 30 #1 is located 915' FNL & 330' FEL of Section 30, T-25N, R-4W. Conoco intends to inject at a maximum pressure of 1800 psi and a maximum rate of 1 BPM, not to exceed a maximum volume of 150 BPD. Any objections to this intent or request for hearing must be filed with the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501 within 15 days from the date of this publication.





LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE



**Hobbs Division**  
Exploration and Production, North America

**Conoco Inc.**  
726 East Michigan  
P.O. Box 460  
Hobbs, NM 88241  
(505) 397-5800

October 9, 1989

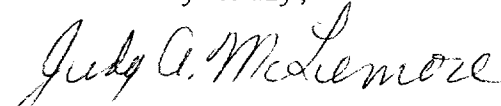
Mr. David Catanach  
Oil Conservation Division  
Energy, Minerals and Natural Resources Dept.  
P.O. Box 2088  
Santa Fe, New Mexico 87504

Dear Mr. Catanach:

Jicarilla "30" SWD Well No. 1  
Request to Amend Order SWD-140

Attached, for completion of your records, is the Rio Grande Sun's Affidavit of Publication for the Public Notification of Conoco's request to amend this order.

Yours very truly,

  
Judy A. McLemore  
Sr. Environmental Analyst

/tm  
4.

OIL CONSERVATION DIVISION  
RECEIVED  
89 OCT 12 AM 8 43

(Published September 28, 1989)

8.91

.....times \$.....  
Sub-Total \$8.91

**Tax \$.....**

**Total \$** 9.42

**Received payment**

## RIO GRANDE SUN

By .....

STATE OF NEW MEXICO } ss.  
County of Rio Arriba }

I, Robert Trapp, being first duly sworn, declare and say that I am the Publisher of the Rio Grande Sun, a weekly newspaper, published in the English language, and having a general circulation in the City of Espanola and County of Rio Arriba, State of New Mexico, and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 of the Session Laws of 1937; that the publication, a copy of which is hereto attached,

was published in said paper once each week for ..... consecutive weeks, and on the same day of each week in the regular issue of the paper during the time of publication, and that the notice was published in the newspaper proper, and

not in any supplement, the first publication being on the ..... day of

..... 19<sup>89</sup> and the last publication on the ..... day

of Sept 1989; that payment for said advertisement has been (duly made), or (assessed as court costs); that the undersigned has personal knowledge of the matters and things set forth in this affidavit.

Robert Trapp  
Publisher

Subscribed and sworn to before me this 20.....

day of Sept, A.D., 1941

**Notary Public**

**My Commission expires**

5-7-92


1 - Job Printing — OS - Office Supplies — CA - Classified Advertising — DA - Display Advertising — SS - Stand Sales

1½% interest per month, 18% per year, will be charged on unpaid balance after 30 days

## ATTACHMENT #1

Well # Jicarilla 30 #1  
 Permit # 06SNMJ1F9005  
 Date Received : 10-12-89  
 \*EPA Authorization # 784

## Permit Application Checklist

<u>Attached</u>	<u>Not Attached</u>
-----------------	---------------------

- |          |          |   |      |
|----------|----------|---|------|
| <u>✓</u> | _____    | 1. Budget Bureau Form # 1004 - 0135 (Sundry Notices) or #1004 - 0136 (Application to Drill) (2 copies to EPA).      |      |
| <u>✓</u> | _____    | 2. Map using township-range-sections to show the location of wells within 1/2 mile (2640 ft.) of the proposed well. | s,   |
| <u>✓</u> | _____    | 3. Tabulation of data on wells within 1/2 mile (2640 ft) including: <i>OPR. SENDING INFO. ON WELL #7.</i>           |      |
|          | _____    | depth   | ess, |
|          | _____    | location  |      |
|          | _____    | For wells that penetrate the injection interval, also show:   |      |
|          | _____    | date drilled  |      |
|          | _____    | record of plugging and/or completion  | o    |
|          | _____    | corrective action plan for inadequately completed or plugged wells.   |      |
| <u>✓</u> | _____    | 4. Injection well schematic drawings of surface and subsurface details showing:                                     |      |
|          | <u>✓</u> | (i) total depth plug-back depth,  |      |
|          | <u>✓</u> | (ii) depth to top and bottom of injection interval,   |      |
|          | <u>✓</u> | (iii) depth to top and bottom of casing and cemented interval, plus amount of cement,                               |      |
|          | <u>✓</u> | (iv) size of casing and tubing and depth of packer, and   |      |
|          | <u>✓</u> | (v) hole diameter,  |      |
|          | <u>✓</u> | (vi) other perforated intervals,  |      |
|          | <u>✓</u> | (vii) daily drilling records, if available  |      |

applicable to wells authorized by rule

- | <u>Attached</u>               | <u>Not Attached</u> |   |
|-------------------------------|---------------------|---|
| 5. <u>  <del>  </del>✓  </u>  | <u>          </u>   | 5. Operating data including: <ul style="list-style-type: none"> <li>(i)✓ maximum and average injection rate,</li> <li>(ii)✓ maximum and average injection pressure,</li> <li>(iii)✓ fracture pressure gradient of injection zone,</li> <li>(iv)✓ whether operations is cyclic or continuous, and</li> <li>(v)✓ source and analysis of injected fluids including TDS, chlorides, and additives.</li> </ul> |
| 6. <u>  <del>  </del>✓  </u>  | <u>          </u>   | 6. Geologic data on the injection and confining zones, including faults, geological name, thickness, porosity, permeability, depth, current reservoir pressure or fluid level, water quality, and lithologic description.   |
| 7. <u>  ✓<del>  </del>  </u>  | <u>          </u>   | 7. Depth to base of fresh water (10,000 mg/l)   |
| 8. <u>  ✓<del>  </del>  </u>  | <u>          </u>   | 8. Verification of public notice, consisting of a list showing names, addressess, and date that notice of permit application was given or sent to each: <ul style="list-style-type: none"> <li>(i)✓ surface land owner,</li> <li>(ii)✓ tenant,</li> <li>(iii)✓ operator of a producing lease within one-half mile of the well location, and</li> <li>(iv)✓ affected Tribal Government.</li> </ul>         |
| 9. <u>  ✓<del>  </del>  </u>  | <u>          </u>   | 9. All available logging and testing data on the well (for existing wells only).  |
| 10. <u>  ✓<del>  </del>  </u> | <u>          </u>   | 10. Proof of adequate financial responsibility.   |
| 11. <u>  <del>  </del>✓  </u> | <u>          </u>   | 11. Certification form signed by well owner/operator or authorized representative (authorization must be in writing and copy attached).   |
| 12. <u>  (Yes)  </u>          | <u>  (No)  </u>     | 12. Has the applicant declared any part of his submission confidential? [147.2907]  |
| 13. <u>  (Yes)  </u>          | <u>  (No)  </u>     | 13. Is the injection well currently authorized by rule? If yes, EPA Inventory No. is <u>NM0784</u> .  |

- |     | <u>Attached</u> | <u>Not Attached</u> |   |
|-----|-----------------|---------------------|---|
| 14. | <u>(Yes)</u>    | <u>(No)</u>         | 14. Was applicant required by EPA to apply for a permit? Permit applied for increasing P <sub>inj</sub> .   |
| 15. | <u>(Yes)</u>    | <u>(No)</u>         | 15. The permit applicant is the <u>owner/operator</u> (circle one or both)  |
| 16. | <u>(Yes)</u>    | <u>(No)</u>         | 16. Has the applicant requested emergency authorization to inject. Well has Emergency Authorization from State of New Mexico.   |
| 17. | <u>At</u>       |                     | 17. Plugging and Abandonment Plan, and estimated cost of plan. Notification that Emergency Authorization by EPA is not required was received in letter of August 30 from C. Sebra to J.A. McLearen. |

---

Administrative Reviewer  
Signature/Date

---

*Virginia Hughes* November 3, 1989  
Technical Reviewer  
Signature/Date

NEW MEXICO UIC  
PERMIT APPLICATION

Well # Jicarilla 30 #1  
Permit # 10-12-87  
Date Received: 10-12-87  
EPA Authorization # 789

Permit Application Checklist

Exhibit	Attached	Not Attached	
B	1. <u>x</u>	_____	1. BLM Sundry Notice "Notice of Intent" (BLM Form 3160-3), or BLM Application for Permit to Drill (BLM Form 3160-5). (2 copies to EPA)
C Pg. 1&2	2. <u>x</u>	_____	2. Map using Sections, Township and Range to show the location of wells within 1/2 mile (2,640 ft.) of the proposed well.
D Pgs 1-5	3. <u>x</u>	_____	3. Tabulation of data on wells within 1/2 mile (2,640 ft.) including:
		_____	depth
		_____	location
		_____	For wells that penetrate the injection interval, also show:
		_____	date drilled
		_____	record of plugging and/or completion
		<u>x</u>	corrective action plan for inadequately completed or plugged wells.
E Pgs 1-6	4. <u>x</u>	_____	4. Injection well schematic drawings of surface and subsurface details showing:
		_____	a. total depth and plugback depth,
		_____	b. depth to top and bottom of injection interval,
		_____	c. depth to top and bottom of casing(s) and cemented interval(s), plus amount of cement.
		_____	d. size(s) of casing and tubing and depth of packer, and
		_____	e. hole diameter(s)
		_____	f. other perforated intervals,

NEW MEXICO UIC  
PERMIT APPLICATION

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Exhibit		<u>Attached</u>	<u>Not Attached</u>	
E				g. daily drilling report, if available - Well History
F	5.	<u>x</u>		h. surface schematic
Pgs 1-14				5. Operating data including:
				a. maximum and average injection rate,
				b. maximum and average injection pressure,
				c. fracture pressure gradient of injection zone, Step Rate Test Graph and Data in Exhibit O and I
				d. whether operation is cyclic or continuous, and
				e. source and analysis of injected fluids including TDS, chlorides, and additives.
G	6.	<u>X</u>		f. Mechanical, integrity tests
Pgs 1-4				6. Geologic data on the injection and confining zones, including: faults, geological name, thickness, porosity, permeability, depth, current reservoir pressure or fluid level, water quality,** and lithologic description.
				** Water Quality description is outlined in Exh. F, pgs 4-8, & 11
G	7.	<u>X</u>		7. Depth to base of fresh water (10,000 mg/l).
H	8.	<u>X</u>		8. Verification of public notice, consisting of a list showing names, addresses, and date that notice of permit application was given or sent to each:
				a. the surface landowner,
				b. tenants,
				c. operator of a producing lease within one-half mile of the well location, and
				d. affected Tribal Government.
I	9.	<u>X</u>		9. All available logging and testing data on the well (for existing wells only). - Logging Package
J	10.	<u>X</u>		10. Proof of adequate financial responsibility.
K	11.	<u>X</u>		State of New Mexico Plugging Bond.
				11. Certification form signed by well owner/operator or authorized representative (authorization must be in writing and copy attached).
	12.	<u>(YES)</u>	<u>X (NO)</u>	12. Has the applicant declared any part of his submission confidential? [147.2907]



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<u>Exhibit</u>	<u>Attached</u>	<u>Not Attached</u>	
	13. <u>X(YES)</u>	<u>(NO)</u>	13. Is the injection well currently authorized by rule? If yes, EPA Form No. is <u>NM 0784</u> .
	14. <u>(YES)</u>	<u>X (NO)</u>	14. Was applicant required by EPA to apply for a permit. Permit was not called for by EPA but UIC program required Permit due to operating pressure.
	15. <u>(YES)</u>	<u>(NO)</u>	15. The permit applicant is the owner/operator. (Circle one)      Both
	16. <u>(YES)</u>	<u>(NO)</u>	16. Has the applicant requested emergency authorization to inject? *
L.	17. <u>X (YES)</u>	<u>(NO)</u>	17. Plugging and Abandonment Plan, and estimated cost of plan.

ADMINISTRATIVE REVIEW

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

TECHNICAL REVIEW

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\* Emergency Authorization from State of New Mexico has been granted as shown in Exhibit N.

Notification that Emergency Authorization by EPA is not required was received in the letter dated August 30 from Oscar Cabra, Jr., P.E. to J.A. McLemore.

OIL CONSERVATION DIVISION  
RECEIVED

'89 NOV 20 AM 10 28

SWD-140 FILE

NOV 15 1989

REPLY TO: GM-SF

Ms. Judy McLemore  
Conoco, Incorporated  
Post Office Box 460  
Hobbs, New Mexico 88241

Re: Permit Application #00SNMU1P9005

Well No.: Jicarilla 30 No. 1  
Location: 916 FML, 930 FEL, NE/4 Sec. 30, T 28N, R 4E  
Rio Arriba County, New Mexico

Dear Ms. McLemore:

Your application for a permit on the above referenced injection well has been reviewed and deemed complete.

A draft permit and statement of basis are being prepared and will be supplied to you. Following our completion of these documents, we will give public notice of your application. A copy of the public notice will be mailed to you, and it will be published in newspaper(s) in the affected area.

We appreciate your interest and thoroughness in the permit application. If you have any questions, please contact Ms. Virginia Hughes at (214) 555-7163.

Sincerely yours,

/s/ Oscar Cabra, Jr P E

Oscar Cabra, Jr., P.E.  
Chief  
Water Supply Branch (GM-S)

cc: Bureau of Land Management, Farmington, New Mexico  
BIA, Dulce and Albuquerque  
cc: w/enclosure:  
Jicarilla Apache Tribe  
State of New Mexico Oil Conservation Division, Santa Fe

**ILLEGIBLE**