

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 South First Street, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-107A
Revised May 15, 2000

APPLICATION TYPE
X Single Well
X Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

APPLICATION FOR DOWNHOLE COMMINGLING

Devon Energy Production Company, L.P. 20 N. Broadway, Suite 1500, Oklahoma City, OK 73102
Operator Address

Windfohr 4 Federal 6 O Sec 4 T18S R27E Eddy
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No.6137 Property Code23718 API No.30-015-30419 Lease Type: XFederal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Red Lake (Q-GB-SA)		Red Lake Glorieta-Yeso
Pool Code	51300		51120
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	1980' - 2776'		2944' - 3350'
Method of Production (Flowing or Artificial Lift)	AI		AI
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	40.5		39.6
Producing, Shut-In or New Zone			
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date:8/8/01 Rates:67-70-92	Date: Rates:	Date:1-16-01 Rates:21-65-291
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 76% 64 %	Oil Gas % %	Oil Gas 24% 36 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yesx No
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes No
Are all produced fluids from all commingled zones compatible with each other? Yesx No
Will commingling decrease the value of production? Yes Nox
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands
or the United States Bureau of Land Management been notified in writing of this application? Yesx No

NMOCD Reference Case No. applicable to this well: DHC-2890

Attachments:

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE TITLE Operations TechnicianDATE 9/23/03

TYPE OR PRINT NAMEKaren CottomTELEPHONE NO. (405)228-7512

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, L.P.

3. Address and Telephone No.
20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611

4. Location of Well (Footage. Sec., T., R., M., or Survey Description)
560' FSL & 1650 FEL, Section 4-18S-27E, Unit "O"

5. Lease Designation and Serial No.
LC-061783-A

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Windfohr 4 Federal #6

9. API Well No.
30-015-30419

10. Field and Pool, or Exploratory Area
Red Lake (Q-GB-SA)

11. County or Parish, State
Eddy County, NM

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other <u>Downhole Commingle</u>	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Devon Energy Production Company, L.P. is applying with the New Mexico Oil Conservation Division to downhole commingle the existing (51300) Red Lake (Q-GB-SA) perfs 1980' - 2776' and with the existing (51120) Red Lake; Glorieta-Yeso, perfs (2944' - 3350'). Order No. R-11363 established these as pre-approved pools. The commingling will not reduce the value of the total remaining production. Ownership in the zones is identical. A Sundry Notice Form 3160-5 has been sent to the Bureau of Land Management notifying them of this application.

The proposed allocations are as follows:

51300 - Red Lake (Q-GB-SA) 76%

51120 - Red Lake; Glorieta-Yeso 24%

Current and proposed wellbore schematics are attached along with the allocation method and supporting data

**SUBJECT TO
LINE APPROVAL
BY STATE**

14. I hereby certify that the foregoing is true and correct

Signed Karen A. Cottom Title Engineering Technician Date Sept 18, 2001

Approved by David A. Glass Title _____ Date _____

Conditions of approval 2 2001

DAVID A. GLASS
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001. Any person knowingly and willfully making to any department or agency of the United States any false, fictitious or fraudulent statements or representations to any matter within its jurisdiction.

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

OIL CONSERVATION DIVISION

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

WELL API NO. 30-015-30419 - Federal Well
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. LC-061783-A
7. Lease Name or Unit Agreement Name Windfhr 4 Federal
8. Well No. 6
9. Pool name or Wildcat Red Lake (Q-GB-SA)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
DEVON ENERGY PRODUCTION COMPANY, L. P.

3. Address of Operator
20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611

4 Well Location
Unit Letter **Q** : **560'** Feet From The **South** Line and **1650'** Feet From The **East** Line

Section 4	Township 18S	Range 27E	NMPM	Eddy	County
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3559' GR					

Check Appropriate Box To Indicate Nature Of Notice, Report, Or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: Downhole Commingle ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work.) SEE RULE 1103.

Devon Energy Production Company, L.P. is applying with the New Mexico Oil Conservation Division to downhole commingle the existing (51300) Red Lake (Q-GB-SA) perfs 1980' - 2776' and with the existing (51120) Red Lake; Glorieta-Yeso, perfs (2944' - 3350'). Order No. R-11363 established these as pre-approved pools. The commingling will not reduce the value of the total remaining production. Ownership in the zones is identical. A Sundry Notice Form-3160-5 has been sent to the Bureau of Land Management notifying them of this application.

The proposed allocations are as follows:

51300 - Red Lake (Q-GB-SA) 76%

51120 - Red Lake; Glorieta-Yeso 24%

Current and proposed wellbore schematics are attached along with the allocation method and supporting data

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE _____

TITLE ENGINEERING TECHNICIAN

DATE Sept 18, 2001

TYPE OR PRINT NAME Karen Cottom

TELEPHONE NO. (405) 235-3611

(This space for State use)

Approved by _____
Conditions of approval, if any:

TITLE _____

DATE _____

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

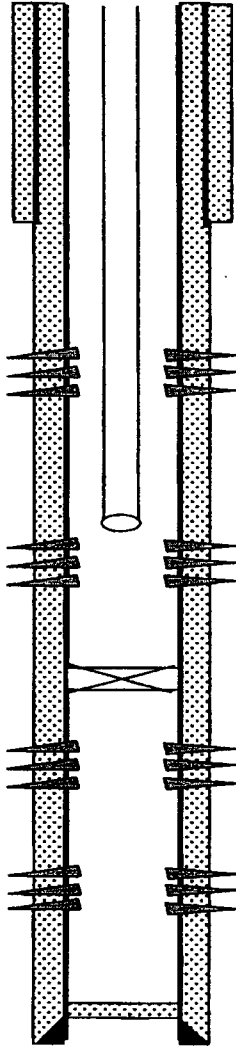
WELL NAME: Windfohr 4 Federal #6			FIELD: Red Lake (Q-GB-SA)			
LOCATION: Sect 4-T18S-R27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL=3559', KB 3573', DF 3572'			SPUD DATE: 11/20/00		COMP DATE: 12/7/00	
API#: 30-015-30419		PREPARED BY: Karen Cottom			DATE: 9/18/01	
TUBULARS	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0 - 1296'	8 5/8"	24#	J-55	8rd ST&C	11"
CASING:	0 - 3799'	5 1/2"	15.5#	J-55	8RD LT&C	7 7/8"
CASING:						
CASING:						
TUBING:	0 - 2642'	2 7/8"				



CURRENT



PROPOSED



8 5/8" casing set @1,296' cmt w/100 sx Class "H" + 250 sx 35:65:6 + 200 sx "C"
55 sx to surface

Upper San Andres Perforations:
1980' - 2280' (25 holes)

2 7/8" tbg w/SN @2642'

Low San Andres Perforations:
2666' - 2776' (20 holes)

CIBP @ 2850'

Glorieta Perforations:
2944' - 2962' (19 holes)

Yeso Perforations:
3064' - 3350' (20 holes)

PBTD @ 3,739'

5 1/2" casing, set @3739' w/250 sx 35:65:6 + 625 sx 50:50 C. 43 sx cmt to surface
TD @ 3,800'

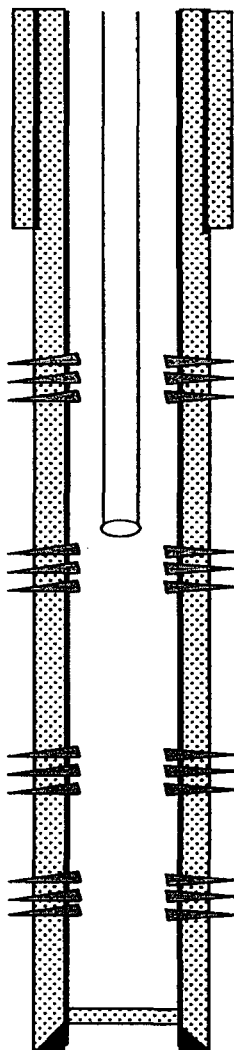
DEVON ENERGY CORPORATION

WELLBORE SCHEMATIC

WELL NAME: Windfohr 4 Federal #6			FIELD: Red Lake (Q-GB-SA)			
LOCATION: Sect 4-T18S-R27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL=3559', KB 3573', DF 3572'			SPUD DATE: 11/20/00		COMP DATE: 12/7/00	
API#: 30-015-30419		PREPARED BY: Karen Cottom			DATE: 9/18/01	
TUBULARS	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0 - 1296'	8 5/8"	24#	J-55	8rd ST&C	11"
CASING:	0 - 3799'	5 1/2"	15.5#	J-55	8RD LT&C	7 7/8"
CASING:						
CASING:						
TUBING:	0 - 2642'	2 7/8"				

CURRENT

PROPOSED



8 5/8" casing set @1,296' cmt w/100 sx Class "H" + 250 sx 35:65:6 + 200 sx "C"
55 sx to surface

Upper San Andres Perforations:
1980' - 2280' (25 holes)

2 7/8" tbg w/SN @2642'

Low San Andres Perforations:
2666' - 2776' (20 holes)

Glorieta Perforations:
2944' - 2962' (19 holes)

Yeso Perforations:
3064' - 3350' (20 holes)

PBTD @ 3,739'
5 1/2" casing, set @3739' w/250 sx 35:65:6 + 625 sx 50:50 C. 43 sx cmt to surface
TD @ 3,800'



ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/228-7512
FAX 405/552-4550

September 18, 2001

Certified Mail No. 7001 0360 0000 6008 0377

STATE OF NEW MEXICO
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
1301 W. Grand Ave
Artesia, NM 88210-1729

RE: Downhole Commingling
Windfohr 4 Federal #6
Section 4-18S-27E Unit "O"
API #30-015-30419
Red Lake (Q-GB-SA) and
Red Lake (Glorieta-Yeso), fields
Eddy County, NM

Gentlemen:

Concerning the referenced, enclosed please find the Form C-103 Sundry Notice of Intent to downhole commingle and attachments (and three copies).

Please direct inquiries concerning this notice to me at (405) 552-4515.

Yours truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.

Karen Cottom
Engineering Tech.

/kac
Enclosures

Copy: File
Bureau of Land Management w/3160-5(via certified Mail # 7001 0360 0000 6008 0360)

Windfohr 4 Federal #6

Allocation Formula

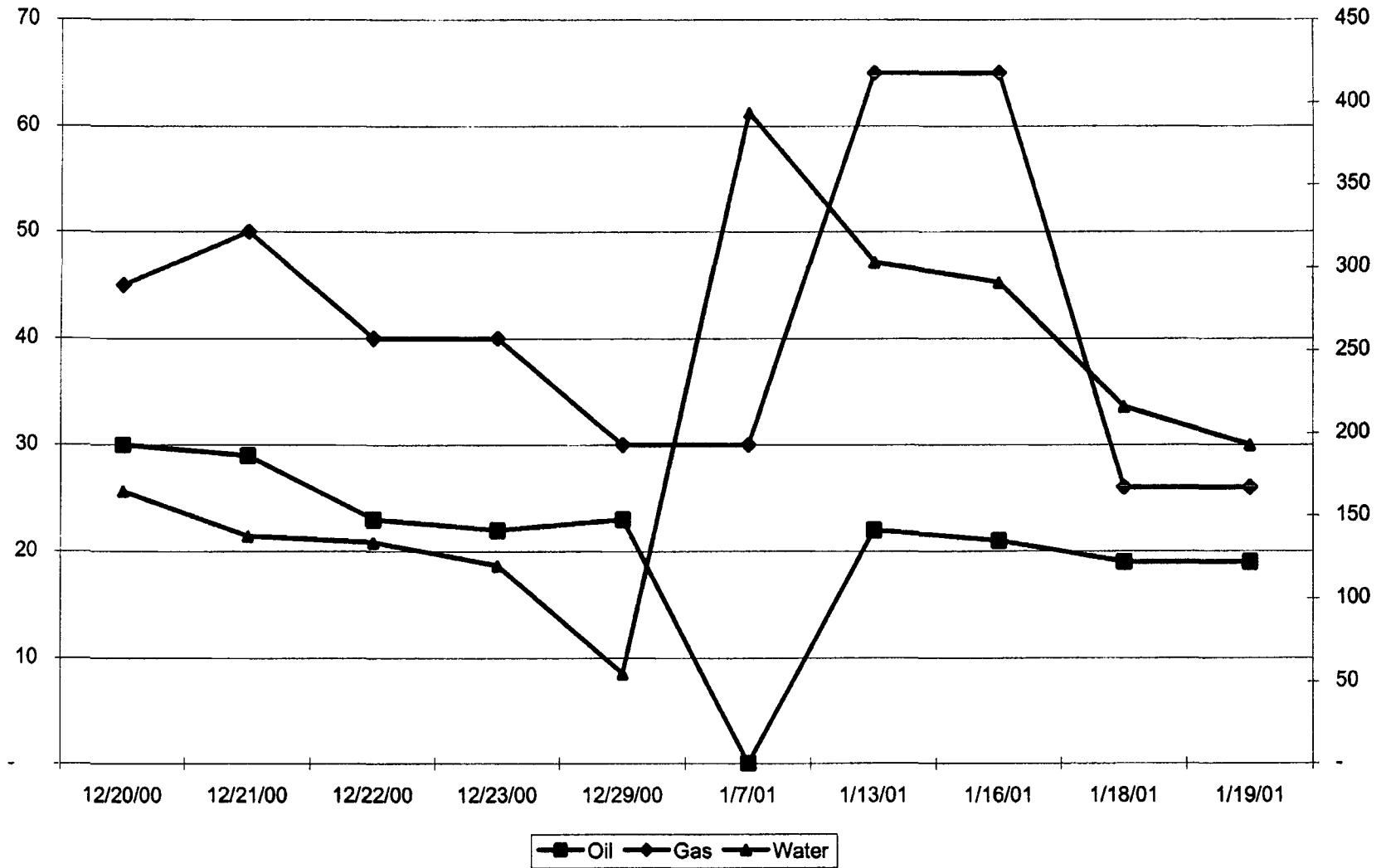
Well Name	Producing Formation	*Daily Production Test	% of Total Oil
		3-month average	
Windfohr 4 Federal #6	(51300)Red Lake (Q-GB-SA)	67 BO/ 73 MCF/101 BW	76 %
Windfohr 4 Federal #6	(51120)Red Lake; Glorieta-Yeso	21 BO/ 40 MCF/213 BW	24 %

* From attached production plots

The above production test represents stable production from a San Andres producer and a Yeso producer. We believe these rates of production represent an acceptable means to allocate production. **We have previously received approval for downhole commingling in these fields utilizing a similar allocation method.**

Date	LEASE NAME	WellNo	TEST HRS	RUN HRS	OIL	GAS	WTR
12/20/00	Windfohr 4 Fed	6	24	24	30	45	165
12/21/00	Windfohr 4 Fed	6	24	24	29	50	138
12/22/00	Windfohr 4 Fed	6	24	24	23	40	134
12/23/00	Windfohr 4 Fed	6	24	24	22	40	120
12/29/00	Windfohr 4 Fed	6	24	24	23	30	55
1/7/01	Windfohr 4 Fed	6	24	24		30	394
1/13/01	Windfohr 4 Fed	6	24	24	22	65	303
1/16/01	Windfohr 4 Fed	6	24	24	21	65	291
1/18/01	Windfohr 4 Fed	6	24	24	19	26	216
1/19/01	Windfohr 4 Fed	6	24	24	19	26	193
	Glorieta-Yeso				21	40	213
2/4/01	Windfohr 4 Fed	6	24	24	47	36	521
2/5/01	Windfohr 4 Fed	6	24	24	108	60	439
2/15/01	Windfohr 4 Fed	6	24	24	120	90	385
2/17/01	Windfohr 4 Fed	6	24	24	150	100	350
2/19/01	Windfohr 4 Fed	6	24	24	150	110	335
2/21/01	Windfohr 4 Fed	6	24	24	156	140	286
2/23/01	Windfohr 4 Fed	6	24	24	151	140	271
2/27/01	Windfohr 4 Fed	6	24	24	157	130	275
3/1/01	Windfohr 4 Fed	6	24	24	149	140	272
3/6/01	Windfohr 4 Fed	6	24	24	162	145	271
3/9/01	Windfohr 4 Fed	6	24	24	136	115	270
3/16/01	Windfohr 4 Fed	6	24	24	121	125	218
3/20/01	Windfohr 4 Fed	6	24	24	120	120	205
3/24/01	Windfohr 4 Fed	6	24	24	109	115	182
3/28/01	Windfohr 4 Fed	6	24	24	105	105	173
3/31/01	Windfohr 4 Fed	6	24	24	105	117	219
4/5/01	Windfohr 4 Fed	6	24	24	102	105	180
4/23/01	Windfohr 4 Fed	6	24	24	80	105	134
4/27/01	Windfohr 4 Fed	6	24	24	81	80	133
5/1/01	Windfohr 4 Fed	6	24	24	81	80	122
5/5/01	Windfohr 4 Fed	6	24	24	80	75	139
6/6/01	Windfohr 4 Fed	6	24	24	75	72	108
6/24/01	Windfohr 4 Fed	6	24	24	75	80	89
7/15/01	Windfohr 4 Fed	6	24	24	55	66	83
7/26/01	Windfohr 4 Fed	6	24	24	64	70	70
8/8/01	Windfohr 4 Fed	6	24	24	67	70	92
8/30/01	Windfohr 4 Fed	6	24	24	42	50	85
9/12/01	Windfohr 4 Fed	6	24	24	39	50	55
	SAN ANDRES				67	73	101
TOTAL PRODUCTION					88	113	314
YESO					24%	36%	68%
SAN ANDRES					76%	64%	32%

Glorieta-Yeso Production



San Andres Production

