

96836

County Eddy Pool Northeast Red Lake-Glorieta-Yeso

TOWNSHIP 17 South Range 27 East NMPM



Ext: $\frac{1}{2}$ Sec. 34 $\frac{1}{2}$ Sec. 35 (R-11170, 4-7-59) Ext: $\frac{1}{4}$ Sec. 25, $\frac{1}{2}$ Sec. 36 (R-11359, 4-12-00)

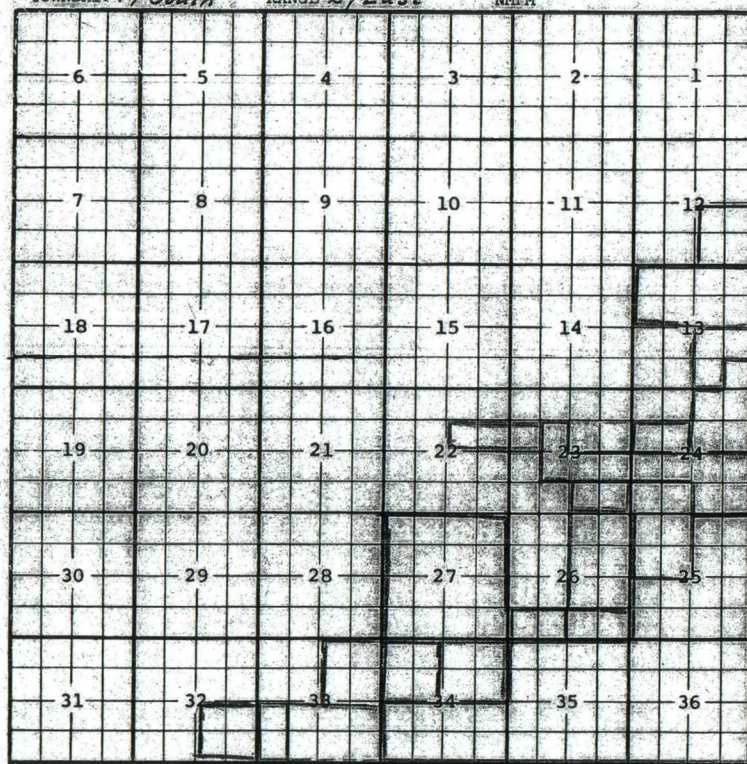
Ext: $\frac{1}{2}$ Sec. 26 (R-11470, 10-11-00) Ext: $\frac{1}{4}$ Sec. 25 (R-11544, 3-13-00)

Ext: $\frac{1}{2}$ Sec. 35 (R-12088, 1-14-01)

51300

COUNTY Eddy POOL Red Lake Queen-Grayburg-San Andres

TOWNSHIP 17 South RANGE 27 East NMPM



Description: $\frac{NE}{4}$ $\frac{1}{4}$ Sec. 25, $\frac{SE}{4}$ Sec. 34; All Sec. 35 & 36

Ext: $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 26 (R-157) - $\frac{NE}{4}$ $\frac{1}{4}$ Sec. 33 (R-1857, 2-1-61)

- $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 26 (R-2427, 3-1-63) - Extend Vertical limits to include Queen formation and redesignate Red Lake Queen-Grayburg-San Andres (R-3230, 8-1-67)

Ext: $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 23; $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 24 (R-4437, 12-1-72)

Ext: $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 24 (R-4937, 2-1-75)

Ext: $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 13, $\frac{NE}{4}$ Sec. 24 (R-5309, 11-1-76)

Ext: $\frac{NE}{4}$ $\frac{1}{4}$ Sec. 22, $\frac{SE}{4}$ $\frac{1}{4}$ Sec. 23 (R-5417, 4-1-77)

Ext: $\frac{NE}{4}$ $\frac{1}{4}$ Sec. 13 (R-5781, 9-1-78)

Ext: $\frac{NE}{4}$ Sec. 13 (R-7555, 6-14-84) Ext: $\frac{SE}{4}$ Sec. 12 (R-8257, 7-8-86)

Ext: $\frac{SE}{4}$ and $\frac{NE}{4}$ Sec. 33, $\frac{NW}{4}$ Sec. 34 (R-10823, 6-16-97)

Ext: $\frac{NE}{4}$ Sec. 33, $\frac{NE}{4}$ Sec. 34 (R-10844, 7-16-97) Ext: All Sec. 27 (R-10951, 2-4-98)

Ext: $\frac{SE}{4}$ Sec. 32 (R-11005, 7-24-98) Ext: $\frac{NE}{4}$ $\frac{1}{4}$ Sec. 24, $\frac{NE}{4}$ Sec. 25, $\frac{NE}{4}$ and $\frac{SE}{4}$ Sec. 26 (R-11063, 5-15-03)

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 11966
ORDER NO. R-11162

APPLICATION OF DEVON ENERGY CORPORATION (NEVADA) FOR 23
UNORTHODOX OIL WELL LOCATIONS, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on April 16, 1998 at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 13th day of April, 1999, the Division Director, having considered the testimony, the record and the recommendations of the Examiner,

FINDS THAT:

(1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.

(2) The applicant, Devon Energy Corporation (Nevada) ["Devon"], seeks authority to drill and produce the following wells at unorthodox oil well locations in Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico:

<u>Well Name and Number</u>	<u>API Number</u>	<u>Section</u>	<u>Footage Location</u>	<u>Unit</u>
Eagle "27-H" Federal No. 15	30-015-29942	27	1450' FNL & 990' FEL	H
Evarts "31" Federal No. 3	30-015-30171	31	1330' FSL & 1630' FEL	J
Eagle "33-G" Federal No. 6	30-015-29595	33	2460' FNL & 1350' FEL	G
Eagle "33-H" Federal No. 8	30-015-29596	33	2435' FNL & 531' FEL	H
Eagle "33-N" Federal No. 10	30-015-29598	33	230' FSL & 2140' FWL	N
Eagle "34-E" Federal No. 10	30-015-29632	34	2310' FNL & 1240' FWL	E
Eagle "34-F" Federal No. 12	30-015-29635	34	2310' FNL & 2420' FWL	F
Eagle "34-G" Federal No. 14	30-015-29636	34	2310' FNL & 1600' FEL	G
Eagle "34-I" Federal No. 18	30-015-29655	34	1740' FSL & 280' FEL	I
Eagle "34-L" Federal No. 24	30-015-29643	34	1740' FSL & 1065' FWL	L

In addition, Devon seeks authority to drill and produce the following wells at unorthodox oil well locations in Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico:

<u>Well Name and Number</u>	<u>API Number</u>	<u>Section</u>	<u>Footage Location</u>	<u>Unit</u>
Falcon "3-N" Federal No. 18	30-015-29575	3	680' FSL & 1350' FWL	N
Carter Collier "5" Federal No. 9	30-015-29995	5	330' FNL & 2360' FEL	B
Evarts "6" Federal No. 4	30-015-30109	6	330' FNL & 1190' FEL	A
Fred "6" Federal. No. 5	30-015-30155	6	1260' FNL & 990' FWL	D
Patton "6" Federal No. 6	30-015-30085	6	2460' FNL & 2310' FWL	F
Patton "6" Federal No. 4	30-015-30079	6	1593' FSL & 1469' FWL	K
Patton "6" Federal No. 3	30-015-29980	6	930' FSL & 1450' FWL	N
Hawk "9-B" Federal No. 4	30-015-29480	9	990' FNL & 1360' FEL	B
Hawk "9-J" Federal No. 16	30-015-29483	9	1630' FSL & 1650' FEL	J
Hawk "9-O" Federal No. 17	30-015-29484	9	1170' FSL & 2310' FEL	O
Hawk "17-C" Federal No. 1	30-015-29515	17	380' FNL & 1450' FWL	C
Hawk "17-C" Federal No. 2	30-015-29726	17	890' FNL & 2585' FWL	C
Kaiser No. 1	NA	18	330' FNL & 1110' FEL	A

(3) Prior to the hearing the Division issued the following Administrative Orders for four of the above-described wells:

- (a) NSL-3969 (SD), dated March 11, 1998, granted Devon approval to drill its Hawk "17-C" Federal Wells No. 1 and 2 at the above-described unorthodox oil well locations;
- (b) NSL-3982, dated March 23, 1998, granted Devon approval to drill its Carter Collier "5" Federal Well No. 9 at the above-described unorthodox oil well location; and
- (c) NSL-3983, dated March 23, 1998, granted Devon approval to drill its Evarts "6" Federal Well No. 4 at the above-described unorthodox oil well location.

Since it is unnecessary at this time to include these four wells in this application, they should be dismissed.

(4) The Red Lake (Queen-Grayburg-San Andres) Pool, as currently designated, includes the following lands in Eddy County, New Mexico:

TOWNSHIP 16 SOUTH, RANGE 28 EAST,
NMPM

Section 24: SE/4
Section 25: All
Section 26: S/2 S/2
Section 27: SE/4 SE/4
Section 34: All
Section 35: All
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 27 EAST,
NMPM

Section 12: SE/4
Section 13: N/2 and SE/4
Section 22: S/2 NE/4
Section 23: S/2 NW/4, NE/4 SW/4, and SE/4
Section 24: NE/4, S/2 NW/4, N/2 SW/4, and SE/4
Section 25: NE/4 and S/2
Section 26: S/2 S/2
Section 27: All
Section 32: SE/4
Section 33: NE/4 and S/2
Section 34: All
Section 35: All
Section 36: All

TOWNSHIP 17 SOUTH, RANGE 28 EAST,
NMPM

Section 7: All
Section 8: SW/4
Section 9: NE/4 NE/4, S/2 NE/4, and SE/4
Section 10: SW/4
Section 11: S/2
Section 12: SW/4 SW/4
Section 14: W/2

TOWNSHIP 17 SOUTH, RANGE 28 EAST,
NMPM

(Continued)

Section 15: All
Section 16: NE/4 and S/2
Section 18: W/2
Section 19: S/2
Section 20: All
Section 22: All
Section 23: S/2 NW/4 and S/2
Section 25: N/2
Section 26: N/2
Section 27: N/2 N/2 and SW/4
Section 28: All
Section 29: N/2, SW/4, and N/2 SE/4
Section 30: All
Section 31: NE/4 NE/4, W/2 E/2, and W/2

TOWNSHIP 18 SOUTH, RANGE 26 EAST,
NMPM

Section 1: E/2

TOWNSHIP 18 SOUTH, RANGE 27 EAST,
NMPM

Section 1: S/2
Section 2: S/2
Section 3: All
Section 4: All
Section 5: All
Section 6: All
Section 7: All
Section 8: All
Section 9: All
Section 17: N/2
Section 18: NE/4, N/2 NW/4, and SE/4 NW/4.

(5) Currently the Red Lake (Queen-Grayburg-San Andres) Pool is governed by the Division's statewide rules, which require development on standard 40-acre spacing and proration units, each having a top unit depth bracket allowable of 80 barrels of oil per day and a limiting gas/oil ratio of 2,000 cubic feet of gas per barrel of oil, and allow infill drilling on each 40-acre unit.

(6) Within a 1236.85-acre area, more or less, comprising the following described

acreage in Eddy County, New Mexico, Devon is the operator of the West Red Lake Unit Area (approved by Division Order No. R-3453 dated July 12, 1968) in which waterflood operations are being conducted with injection into the Red Lake (Queen-Grayburg-San Andres) Pool (approved by Division Order No. R-3469, issued in Case No. 3824, dated August 13, 1968, and designated the West Red Lake Waterflood Project).

(7) The remaining 19 wells listed in Paragraph No. (2) above are either completed in or proposed to be completed in the Red Lake (Queen-Grayburg-San Andres) Pool, and each well will have a standard 40-acre, more or less, unit dedicated thereto. Eleven wells will be infill wells within existing 40-acre oil proration units while the remaining eight wells will be considered new designations.

(8) The applicant presented evidence that indicates the following:

- (a) All of the wells are located on federal land, except the Kaiser No. 1, which is located on fee land.
- (b) The subject pool is continuous across the area, trending in a northeast-southwest direction.
- (c) The original locations for all of the subject wells were orthodox, but were moved due to topographic and engineering reasons.
- (d) The subject area is near the Pecos River, with numerous draws and elevation changes of 100-200 feet. The Bureau of Land Management requested that numerous well locations be moved to prevent extreme cut and fill of slopes and prevent erosion of the highly erodible soil in this area. In addition, there are numerous gas transmission and gathering pipelines, roads, existing wells, and a gas plant. All of these factors limit well locations.
- (e) Average reserves in wells completed in the subject pool are about 50,000 barrels of oil, which equate to approximately 24 acres of drainage. The drainage radius of such a well is much less than a well that is capable of draining 40 acres. The applicant has drilled wells within 400-450 feet of older, above-average wells in the pool, and has seen no evidence of drainage from those older wells.
- (f) Directional drilling is not feasible because the small reserves in these wells do not justify the additional drilling and operating costs.

- (g) Applicant is drilling two wells per 40-acre unit to: (i) adequately drain each unit, and (ii) prepare for a possible future waterflood project. Injection in the West Red Lake Unit has shown a favorable production response. Drilling two wells per 40-acre unit could allow the Unit's waterflood project to be expanded in the future.

(9) Each of the above-described unorthodox oil well locations should be approved for one or more of the following reasons:

- (a) The location is a move toward the interior of a lease;
- (b) The location encroaches on a lease not owned or operated by the applicant, but notice was given to the offset and the Division received no objection;
- (c) The location will not drain the offset well unit due to the limited drainage areas in the subject pool;
- (d) A well will be drilled offsetting the proposed unorthodox well, or the offsetting well unit has existing wells producing from the same pool; and/or
- (e) There are no overriding royalty interest owners in the tract offsetting the subject well, or the applicant is the only overriding royalty interest owner in the offsetting tract.

(10) Approval of the proposed unorthodox oil well locations will afford the applicant the opportunity to produce its just and equitable share of oil and gas from the subject pool and will prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Devon Energy Corporation (Nevada), is hereby authorized to drill the wells described below at unorthodox oil well locations in the Red Lake (Queen-Grayburg-San Andres) Pool in Township 17 South, Range 27 East, NMPM, Eddy County, New Mexico:

<u>Well Name and Number</u>	<u>API Number</u>	<u>Section</u>	<u>Footage Location</u>	<u>Unit</u>
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Eagle "33-H" Federal No. 8	30-015-29596	33	2435' FNL & 531' FEL	H
Eagle "33-N" Federal No. 10	30-015-29598	33	230' FSL & 2140' FWL	N
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Eagle "34-F" Federal No. 12	30-015-29635	34	2310' FNL & 2420' FWL	F
Eagle "34-G" Federal No. 14	30-015-29636	34	2310' FNL & 1600' FEL	G
Eagle "34-I" Federal No. 18	30-015-29655	34	1740' FSL & 280' FEL	I
Eagle "34-L" Federal No. 24	30-015-29643	34	1740' FSL & 1065' FWL	L

And in Township 18 South, Range 27 East, NMPM, Eddy County, New Mexico:

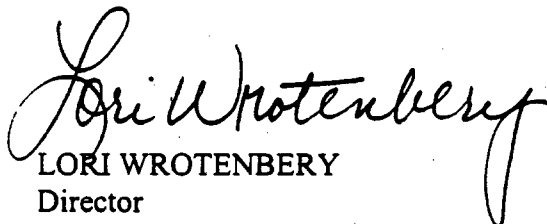
<u>Well Name and Number</u>	<u>API Number</u>	<u>Section</u>	<u>Footage Location</u>	<u>Unit</u>
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Patton "6" Federal No. 3	30-015-29980	6	930' FSL & 1450' FWL	N
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Hawk "9-O" Federal No. 17	30-015-29484	9	1170' FSL & 2310' FEL	O
Kaiser No. 1	NA	18	330' FNL & 1110' FEL	A

(2) Each well shall have a standard 40-acre oil spacing and proration unit dedicated thereto.

(3) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY
Director

SEAL

CMD : ONGARD 01/25/04 11:56:30
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEZ

API Well No : 30 15 29635 Eff Date : 09-16-1997 WC Status : A
Pool Idn : 51300 RED LAKE;QUEEN-GRAYBURG-SA
OGRID Idn : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
Prop Idn : 19359 EAGLE 34 F FEDERAL

Well No : 012
GL Elevation: 3561

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	-----	-----	-----	-----	-----
B.H. Locn : F	34	17S	27E	FTG 2310	F N	FTG 2420	F W P

Lot Identifier:
Dedicated Acre: 40.00
Lease Type : F
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : ONGARD 01/25/04 11:56:41
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEZ
Page No: 1

OGRID Identifier : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
Pool Identifier : 51300 RED LAKE;QUEEN-GRAYBURG-SA
API Well No : 30 15 29635 Report Period - From : 01 2003 To : 12 2003

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29635	EAGLE 34 F FEDERAL	01 03 31	376 60 1191	P
30 15 29635	EAGLE 34 F FEDERAL	02 03 28	407 56 748	P
30 15 29635	EAGLE 34 F FEDERAL	03 03 31	426 90 685	P
30 15 29635	EAGLE 34 F FEDERAL	04 03 30	381 75 892	P
30 15 29635	EAGLE 34 F FEDERAL	05 03 31	405 79 992	P
30 15 29635	EAGLE 34 F FEDERAL	06 03 30	363 76 576	P
30 15 29635	EAGLE 34 F FEDERAL	07 03 31	349 38 600	P

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07 BKWD	PF08 FWD	PF09	PF10 NXTPOOL	PF11 NXTOGD	PF12

CMD : ONGARD 01/25/04 11:56:44
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEZ
Page No: 2

OGRID Identifier : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
Pool Identifier : 51300 RED LAKE;QUEEN-GRAYBURG-SA
API Well No : 30 15 29635 Report Period - From : 01 2003 To : 12 2003

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29635	EAGLE 34 F FEDERAL	08 03 31	357 25 443	P
30 15 29635	EAGLE 34 F FEDERAL	09 03 30	399 24 645	P
30 15 29635	EAGLE 34 F FEDERAL	10 03 31	346 40 491	P

Reporting Period Total (Gas, Oil) : 3809 563 7263

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/25/04 11:56:10
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPEZ

API Well No : 30 15 29084 Eff Date : 12-11-1996 WC Status : A
Pool Idn : 51300 RED LAKE;QUEEN-GRAYBURG-SA
OGRID Idn : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
Prop Idn : 19359 EAGLE 34 F FEDERAL

Well No : 011
GL Elevation: 3553

	U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
	---	---	---	---	---	---	---
B.H. Locn	: F	34	17S	27E	FTG 1650 F N	FTG 1650 F W	P
Lot Identifier:							
Dedicated Acre:	40.00						
Lease Type	: F						
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O)	:						

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M0025: Enter PF keys to scroll
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PF01 HELP      PF02      PF03 EXIT      PF04 GoTo      PF05      PF06
PF07           PF08      PF09           PF10 NEXT-WC PF11 HISTORY PF12 NXTREC
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CMD : ONGARD 01/25/04 11:56:22
 OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEZ
 Page No: 1

OGRID Identifier : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
 Pool Identifier : 51300 RED LAKE;QUEEN-GRAYBURG-SA
 API Well No : 30 15 29084 Report Period - From : 01 2003 To : 12 2003

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29084	EAGLE 34 F FEDERAL	01 03 31	376 149 770	P
30 15 29084	EAGLE 34 F FEDERAL	02 03 28	145 182 651	P
30 15 29084	EAGLE 34 F FEDERAL	03 03 31	233 253 504	P
30 15 29084	EAGLE 34 F FEDERAL	04 03 30	381 271 527	P
30 15 29084	EAGLE 34 F FEDERAL	05 03 31	405 262 355	P
30 15 29084	EAGLE 34 F FEDERAL	06 03 30	357 165 274	P
30 15 29084	EAGLE 34 F FEDERAL	07 03 31	349 171 246	P

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
 PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

CMD : ONGARD 01/25/04 11:56:24
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPEZ
Page No: 2

OGRID Identifier : 6137 DEVON ENERGY PRODUCTION COMPANY, LP
Pool Identifier : 51300 RED LAKE;QUEEN-GRAYBURG-SA
API Well No : 30 15 29084 Report Period - From : 01 2003 To : 12 2003

API Well No	Property Name	Prodn. Days MM/YY Prod	Production Volumes Gas Oil Water	Well Stat
30 15 29084	EAGLE 34 F FEDERAL	08 03 31	357 201 143	P
30 15 29084	EAGLE 34 F FEDERAL	09 03 30	399 190 208	P
30 15 29084	EAGLE 34 F FEDERAL	10 03 31	346 185 217	P

Reporting Period Total (Gas, Oil) : 3348 2029 3895

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12