DEVON ENERGY OPERATING ON CONSCRIPTION DIVISION
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102

405/235-3611 Fax 405/552-4550 Fax 405/552-4552

CORPORATION

January 15, 1996

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87504 - 2088

Attention: Mike Stogner

Re: Non - Standard Location Approval

Dear Sir:

It is requested that administrative approval be granted under Rule 104F. (1) for unorthodox locations for the infill producing wells located within the Russell-Turner Waterflood Project, at the following locations:

**WELL** 

#### LOCATION

Turner "A" #39	1310' FSL & 2300' FWL, Sec. 18-17S-31E
Turner "A" #44	150' FSL & 160' FEL, Sec. 18-17S-31E
Turner "A" #53	2630' FSL & 1620' FEL, Sec. 18-17S-31E

Attached is a plat of the Russell-Turner Waterflood Project showing the project boundaries that are adjacent to the subject wells. Forms 3160 - 3 and C - 102 are attached for each of the two wells listed above. The Russell-Turner Waterflood project is located on federal property and each proposed well is to be part of this active waterflood project.

The above locations do not conform to Rule 104. C. I. because they are located closer than 330' to the governmental quarter - quarter section boundaries. They will be drilled to a depth sufficient to produce the Grayburg - San Andres formation (approximately 4000'). The wells will be drilled at the unorthodox locations in order to prevent waste by developing an efficient production and injection pattern within the Russell-Turner Waterflood Project, which was approved under Order R - 3185. When fully developed these wells will combine with the existing wells (some of which will eventually be converted to injection) to establish a 40 acre 5 spot waterflood pattern.

Devon Energy Operating Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73112

#### Fax Cover Sheet

January 17, 1996

To: Mike Stogner

Company: NM Oil Conservation Division

Fax #: (505) 827-8177

Number of pages (including cover sheet): 3

From: Karen Byers

Message: In my previous letter, I stated that these wells were in the Keel-West Waterflood Project. I am sending a corrected letter stating that these wells are in the Russell-Turner Waterflood Project.

Thank you!

DEVON
ENERGY
OPERATING
CORPORATION

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102 405/235-3611 Fax 405/552-4550 Fax 405/552-4552

January 15, 1996

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87504 - 2088

Attention: Mike Stogner

Re: Non - Standard Location Approval

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#### LOCATION

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There are no operators that have production in offsetting 40 acre tracts. The two wells listed are offset by wells that are already operated by Devon Energy Operating Corporation; therefore, no notification is necessary.

Should you require any additional information regarding any of these unorthodox locations please notify me at 405-552-4527.

Sincerely,

Karen Byers

Karen Byers

Engineering Technician

DEVON ENERGY OPERATING CORPORATION

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102 405/235-3611 Fax 405/552-4550 Fax 405/552-4552

January 15,1996

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87504 - 2088

Attention: Mike Stogner

WELL

Post-it® Fax Note 7671	Date 1 15/96 pages 26
MIKE SCOANE	From Raren Buers
CO./Dept. Conserv. DIV	CO. Devon Energy
Phone #	Phone #
Fax # (505) 827-8177	Fax#

Re: Non - Standard Location Approval

LOCATION

#### Dear Sir:

It is requested that administrative approval be granted under Rule 104F. (1) for unorthodox locations for the infill producing wells located within the Russell Turner Waterflood Project, at the following locations:

Turner "A" #38	1400' FSL & 900' FWL, Sec. 18-17S-31E
Turner "A" #50	2390' FNL & 1210' FEL, Sec. 19-17S-31E
Turner "A" #51	2632' FNL & 75' FEL, Sec. 19-17S-31E
C. A. Russell #13	330' FNL & 1050' FWL Sec. 18-17S-31F

Attached is a plat of the Russell - Turner Waterflood Project showing the project boundaries that are adjacent to the subject wells. Forms 3160 - 3 and C - 102 are attached for each of the two wells listed above. The Russell - Turner Waterflood project is located on federal property and each proposed well is to be part of this active waterflood project.

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Operators that have production in offsetting 40 acre tracts will be notified by certified mail. A copy of this notification to each operator will be sent to you along with the certified mail number. The wells where notification to offset operators is required are:

Turner "A" #38 Turner "A" #50 Turner "A" #51 C. A. Russell #13

Each of the locations listed above are offset on three sides of the 40 acre tract by Devon Energy Operating Corporation (DEOC) with the remaining side being offset by a different operator. Although each of the above locations are considered unorthodox in each case the above locations were moved closer to the offsetting tracts that are operated by DEOC. Avon Energy is a closely related company to Devon Energy Operating Corp, and therefore does not require notice.

Should you require any additional information regarding any of these unorthodox locations please notify me at 405-552-4527.

Please note that we previously applied for approval for unorthodox location on the Turner "A" #51. We have since moved the location and discovered that there is an offset operator and are resubmitting for your approval. You will find that we have now notified the offset operator.

Sincerely,

Karen Byers

Engineering Technician

01/16/96 TUE 08:46 FAX 405 552 4550 Form 3160-3 (December 1990)

UNITED STATES OPERATOR'S

DEPARTMENT OF THE INTERIOR

Form approved.

	BUREAU OF	LAND MANAGEMENT			SE DESTRUCTION AND ST 29395-A	DRIAL NO.
	APPLICATION FOR PE	RMIT TO DRILL OR DEEPEN		[	DIDIAN, ALLOTTEE OR :	TRINE RANG
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b TYPE OF WELL:				7.UNE	SAME TRANSPORTER	
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2 NAME OF OPERA		ERATING CORPORATION			er "A" #38	- PO.
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	· 20 N. BROADWAY, SU	JITE 1500, OKC, OK 73102				
		in accordance with any State requir	ements)*		LD AND POOL, OR WILL YBURG-JACKSON	XAT
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At top proposed prod.	zone (SAME) 57	4 6 . 1	e approval State		TION 18 -T17 S - R31	
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4 miles cast & 1 mil	le north of Loco Hills, N.M.			EDDY		1794
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12 1/4"	8 5/8" J-55		SETTING DEPT	H		OF CEDENCE
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	3 112 1133	13.34	4200"		550 sk Lite • 525 :	rk Class M.
Exhibit #2 Exhibit #3/3-A Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #7 H2S Operating Pi	<ul> <li>Blowout Prevention Equation</li> <li>Location and Elevation</li> <li>Road Map and Topo M</li> <li>Wells Within 1 Mile Rate Production</li> <li>Rotary Rig Layout</li> <li>Casing Design</li> </ul>	uipment terms, con Plat restriction ap conducted dius thereof, as at Lease No. Legal Dess Bond Cove BLM Bone	rsigned accepts all appudition, stipulations and seconcerning operations on the leased land or secribed below:  LC029395-A  cription: Section 18-T: erage: Statewide in Cod No.: CO1151	nd ns portions S 17%-R31E O, NM, U	r, & Wy	RECEIVED
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		See Instructions On Ro	everse Side			
te 18 U.S.C. Section 100 tements or representation	ol, makes it a crime for any person is as to any maner within its jurisdi	knowingly and willfully to make to siction	any department or agency of the	e United State	=s my false, fictitious o	r fraudulent

Ø 004 Form C-102 Revised 02-10-94

State of New Mexico Energy, Minerals, and Natural Resources Department

instructions on back

Submit to the appropriate District Office State Leaks — 4 copies Fee Leaks — 3 copies

DISTRICT II P. O. Drower DD Artesia, NM 88211-0719

OIL CONSERVATION DIVISION P. O. Box 2088 DISTRICT III
1000 Rio Brozos Rd. Santa Fe, New Mexico 87504-2088 Aztec, NM 87410

AMENDED REPORT

DISTRICT IV
P. O. Box 2088
Sonto Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT

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DEVON ENERGY

Form 3160-3 (December 1990) UNITED STATES PERATORISE COPICE.

DEPARTMENT OF THE INTERIOR CONTROLLED TO THE INTERIOR CONTROLLED TO

Form approved.

	BUREAU OF LA	(VICIA SIGN)	S. LEASE DESIGNATION AND SERIAL NO.  1.C 029395-A			
	APPLICATION FOR PERM	IT TO DRILL OR DEEP	PEN	6. LF 10	WIAN, ALLOTTEE OR T	THE NAME
A TYPE OF WORK	DRILL 🔀	DEEPEN		NA NA		
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ADDRESS AND TE		IIIIG COMPONAL		9.API	WELL NO.	
,	20 N. BROADWAY, SUIT	E 1500, OKC, OK 73	3102 (405) 552-4560	10.775	D AND POOL, OR WILD	-AT
	LL (Report location clearly and in ac FNL & 1210' FEL	scordance with any State i	SUMMECT TO	GRAY	BURG-JACKSON	
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4. DISTANCE IN MILES A	NO DERECTION FROM REAREST TOWN OF	R PORT OFFICE.			UNITY OR PARTEN	13. STATE
miles east & 1 mile	e north of Loco Hills, N.M.			EDDY	•	MM
S.DISTANCE FROM PROPO	-52D	16.NO. OF ACRES IN	LPASE		17.NO. OF ACRES	
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(Also to means) drig unit line					40	_
B.DISTANCE FROM PROPO	SED LOCATION.	19. PROPOSED DEPTH			20.ROTARY OR CA	ALE TOOLS*
TO MEAREST WELL, DR. OR APPLIED FOR, ON S		4200'			Rotary	
1. ELEVATIONS (Show when				22.	APPROX. DATE WORK T	TILL START
617'				Ja	muary 1, 1996	<b>;</b> .
3.		PROPOSED CASING	AND CEMENTING PROGRAM			
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2 1/4"	8 5/8" J-55	24.0#	<del>330°</del> 350′		125 sk Lite out - 2	00 sk Class "C"
7/8"	5 1/2" J-55	15.5#	4200'		550 pk Lite cat + 4	25 sk Claus "H"
Exhibit #2 = Exhibit #3/3-A = Exhibit #4 =	<ul> <li>Blowout Prevention Equip</li> <li>Location and Elevation Pl</li> <li>Road Map and Topo Map</li> <li>Wells Within 1 Mile Radi</li> </ul>	oment term: at restr condi	undersigned accepts all applics, condition, stipulations and ictions concerning operations ucted on the leased land or posof, as described below:	3	Cha. ARE	NON.
	Production Facilities Plat		e No. LC029395-A	>		
	Rotary Rig Layout		Description: Section 19-T17			<b>/</b> 17
Exhibit #7. = H2S Operating P	- Casing Design lan	Bond BLM	l Coverage: Statewide in CO l Bond No.: CO1151	, NM, U	5	
N ABOVE SPACE DES 10 drill or deepen dire	SCRIBE PROPOSED PROGRAM ctionally, give pertinent data on su	: If proposal is to deepen bearisce locations and m	n. give data on present productive zon neasured and true vertical depths. Gi	e and prop		zone. If proposal
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idly to make to any department or agency of the United States any false, fictitious or fraudulent demonts of representations as to any matter within its jurisdiction

Ø 006 Form C-102 Revised 02-10-94

State of New Mexico Energy. Minerals, and Natural Resources Department

Instructions on back

Submit to the Appropriate District Office Fee Leave - 3 copies

P. O. Drawer DD Artesia, NM 88211-0719

Hobbs, NM 88241-1980

P. O. Box 1980

OIL CONSERVATION DIVISION P. O. Box 2088 DISTRICT III Santa Fe, New Mexico 87504-2088 Aztec, NM 87410

AMENDED REPORT

DISTRICT IV P. O. Box 2088

WELL LOCATION AND ACREAGE DEDICATION PLAT Sonto Fe, NM 87507-2088 2 Poel Code 1 API Number Grayburg Jackson (ON. SR. GB. SA) Well Number Property Neme · Property Code 50 TURNER A 16001 Elevation Operator Name OGRUD No. 3617 DEVON ENERGY OPERATING CORP. 136025 "SURFACE LOCATION Lot Ida Fost from the North/South line Fost from the East/West line County UL or lot no. Section Range Township **EDDY** 2390' NORTH 1210' RAST 17 SOUTH 31 EAST, N.M.P.M. 19 H "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lot Ida Feet from the North/South line Peet from the East/Vest line County UL or lot no. Section Township 14 Connolidation Code " Order No. 12 Dedicated Acres 13 Joint or Infill 40 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature comox (peloson 2390 Randy Jackson District Engineer Date 11/14/5< SURVEYOR CERTIFICATION 1210" I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey SEPTEMBER 29, 1995 Signature opposited of Professional Supplies of Suppli *4*7820

Form 3160-5 " (June 1990)

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Buresu No. 1004-0135
Expires March 31, 1893

Do not use this form for proposals to drill	S AND REPORTS ON WELLS or to deepen or reentry to a different reservoir. OR PERMIT.—" for such proposals	Lease Designation and Serial No.     LC-029395-A     If Indian, Allottee or Tribe Name
And the second s	IN TRIPLICATE	N/A
1. Type of Well Si Oil Gas Wall Cther		7. If Unit or CA, Agreement Designation  N/A
2. Name of Operator DEVON ENERGY OPERATING CORPOR	ATION	8. Well Name and No.  Turner *A" #51
3. Address and Telephone No. 20 NORTH BROADWAY, SUITE 1500, OKLAHO	DMA CITY, OKLAHOMA 73102 (405)552-4527	9. API Well No. 30-015-28758
4. Location of Well (Footage, Sec., T., R., M., or Survey D 2632' FNL & 75' FEL, Sec. 19-175-31E	escription)	Orayburg Jackson Q, SR, GB, SA County or Parish, State  Eddy County, NM
CHECK APPROPRIATE BOX(s	) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent  Subsequent Report	Abandonment Recompletion Plugging Back	Change of Plans  New Construction  Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing Other	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log foots)
The location of the proposed we The old location was 2660' FNI  The new location is 2632' FNL	ell has been moved 28' North.  2. & 75' FEL, Sec. 19-17S-31E	٠,.
1. I hereby certify that the foregoing is true and correct gned Karlin Bulins his space for Federal or State office use)	KAREN BYERS ENGINEERING TECHNICIAN	Date <u>1/9/96</u>
pproved by	Title	Date
te 18 U.S.C. Section 1001, makes it a crime for my person knowings	spid willfully to make to any department or agency of the United States any false	first time of County In

DISTRICT I P. O. Box 1980 Hobbs. NM 88241-1980 State of New Mexico Energy, Minerals, and Natural Resources Department Form C~102 Revised 02-10-94

Instructions on book

Submit to the Appropriate District Office State Lame — 4 copies Fee Leave — 3 copies

DISTRICT II
P. O. Drawer OD
Artesia, NM 88211-0719
DISTRICT III

DISTRICT III 1000 Rio Brozos Rd. Aztec. NM 87410 OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

Santo Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT		
API Number 2 Pool Code 3 Pool Name		
Grayburg Jackson (SR, QN, G	B, SA)	
Property Code Property Name	* Vell Number	
16001 TURNER A	51	
OGRID No. Operator Name	* Elevation	<del></del>
136025 DEVON ENERGY OPERATING CORP.	3613	, 
" SURFACE LOCATION		
	last/Wear line	County
H 19 17 SOUTH 31 EAST, N.H.P.M. 2632' NORTH 75'	east	EDDY
"BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE		
IL or lot no. Section Township Eange Let Ida Feet from the North/South line Feet from the E	hast/Sest line	County
Dedicated Acres <sup>13</sup> Joint or Infill <sup>16</sup> Concolidation Code <sup>16</sup> Order No.		
NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE	R BREN	
CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	N	
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SUBMIT IN TRIPLICATE.

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State of New Mexico Energy, Minerals, and Natural Resources Department Form C-102 Revised 02-10-94

instructions on back

Submit to the Appropriate District Offices
State Lease — 4 copies
Fee Lease — 3 copies

TRICT II
O. Drower DD
tesia, NM 88211-0719

STRICT III )00 Rio Brazos Rd. tec, NM 87410 OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

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DEVON ENERGY

(TOT 2011

160-3 mber 1990)

### UNITED STATES

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DEPARTMENT OF THE INTERIOR

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Form	approved

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L TYPE OF WELL:	Other Other	III OLE	BULTIPLE TONE	NA		
2 NAME OF OPERA	TOR				R LEASE NAME, VELL ISSEE #13	NO.
	DEVON ENERGY OPER	ATING CORPORATION		D.AFI UE		······································
3. ADDRESS AND T	ELEPHONE NO.	T 1800 OVC OV 72102 (4	06) 663:4670	A. WAT GE	<u> </u>	-
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outlined in the for Drilling Program Exhibits #1/1-A Exhibit #2 Exhibit #3/3-A Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #7 H2S Operating P	Blowout Prevention Equipation P. Location and Elevation P. Road Map and Topo Map Wells Within 1 Mile Radi Production Facilities Plat Rotary Rig Layout Casing Design	ments.  The undersignment terms, concentrations conducted or its thereof, as of Lease No. L. Legal Described BLM Bond	igned accepts all applicated tition, stipulations and concerning operations on the leased land or portilescribed below:  C-029548A iption: Section 18-T177-age: Nationwide Society Soc	ole ions R31E \$7\$)	CAGO 9 (0 31 MM '95 AREA 1.	RECEIVED
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ille 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent atements or representations as to any matter within its jurisdiction.

Date of Survey
SEDSCHIEF OF 1995
Signature and Signature
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\* V. LYNN
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TOTAL STATE OF THE

DEVON ENERGY OPERATING CORPORATION

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102 405/235-3611 Fax 405/552-4550 Fax 405/552-4552

January 15, 1996

MARBOB ENERGY CORP. 11352 Lovington Highway Artesia, New Mexico 88210

Certified Letter #: Z 253 345 685

Dear Sir:

The BLM has issued Devon Energy Operating Corp. a permit to drill the Turner "A" #50 & the Turner "A" #51. The proposed well sites are within the boundaries of the Russell-Turner Waterflood Project in Eddy Co. New Mexico and offset your well in Unit I of Section 19 - T17S - R31E. Dwights Production Data show that you operate the following well in Unit I of Section 19 - T17S - R31E:

Fren #19

The Turner "A" #50 is located:2390' FNL & 1210' FEL, Section 19 - T17S - R31E The Turner "A" #51 in located 2630' FNL & 75' FEL, Sec. 19-17S-31E

The State of New Mexico Oil Conservation Division has ruled that these are "non-standard locations" and require that we obtain Non - Standard Location Approval from their Santa Fe Office before an allowable will be issued. The NSL approval process requires that we notify offset operators and Submit Proof of Notice. A non - standard location is defined as any location closer than 330' to the outer boundaries of a 40 acre drilling unit. Although these locations are considered unorthodox they will not be completed in the same pool as your well. Both wells will be completed in the Grayburg-San Andres Pool.

Please accept this letter as the required notification. If you have any questions regarding this matter please notify me at 405 - 552 - 4560.

Sincerely,

Karen Byers Engineering Technician

cc: Oil Conservation Division - Santa Fe, New Mexico
Bureau of Land Management - Carlsbad, New Mexico

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Receipt for
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'ou for using Return F		Z Expri	3. Andice Addressed to:  Marbob Energy Corp  Ll352 Lovington Highway S Artesia, New Mexico SS210 SS210 SS220
Receipt Service	Consult postmaster for fee.	f spece cle number nd the date	SENDER:  • Complete items 1 and/or 2 for additional services.  • Complete items 3, and 4a 8, b.  • Pilar your name and address on the nesiplece, or on the back is true in this card to you.  • Afract this form to the front of the meliplece, or on the back is with the meliplece below the section of the form to the front of the meliplece below the section of the interest of the inte

### DEVON ENERGY OPERATING CORPORATION

20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102 405/235-3611 Fax 405/552-4550 Fax 405/552-4552

January 15, 1996

Burnett Oil Company 801 Cherry St., Suite 1500 Ft. Worth, TX 76102

Certified Letter #: Z 253 345 686

Dear Sir:

The BLM has issued Devon Energy Operating Corp. a permit to drill the Turner "A" #38 and the C. A. Russell # 13. The proposed well sites are within the boundaries of the Russell-Turner Waterflood Project in Eddy Co. New Mexico and offset your wells in Sec. 12, Unit P, and Sec. 13, Units A, H, I, and P - T17S - R30E. Dwights Production Data show that you operate the following wells in 17S-30E:

Grayburg Jackson SA Unit # 15, Unit P, Sec. 13 Grayburg Jackson SA Unit #16, Unit I, Sec. 13 Grayburg Jackson SA Unit # 28, Unit H, Sec. 13 Grayburg Jackson SA Unit #30, Unit A, Sec. 13 Grayburg Jackson SA Unit # 35, Unit P, Sec. 12 Grayburg Jackson SA Unit #48, Unit H, Sec. 13

The C. A. Russell #13 will be located 330' FNL & 1050' FWL, Sec. 18-17S-31E The Turner "A" #38 will be located 1400' FSL & 900' FWL, Sec. 18-17S-31E

The State of New Mexico Oil Conservation Division has ruled that this is a "non-standard location" and requires that we obtain Non-Standard Location Approval from their Santa Fe Office before an allowable will be issued. The NSL approval process requires that we notify offset operators and Submit Proof of Notice. A non-standard location is defined as any location closer than 330' to the outer boundaries of a 40 acre drilling unit. Although this location is considered unorthodox it will not be in the same pool as your well. This well will be completed in the Grayburg Jackson pool.

Please accept this letter as the required notification. If you have any questions regarding this matter please notify me at 405 - 552 - 4560.

Sincerely,

Karen Byers Engineering Technician

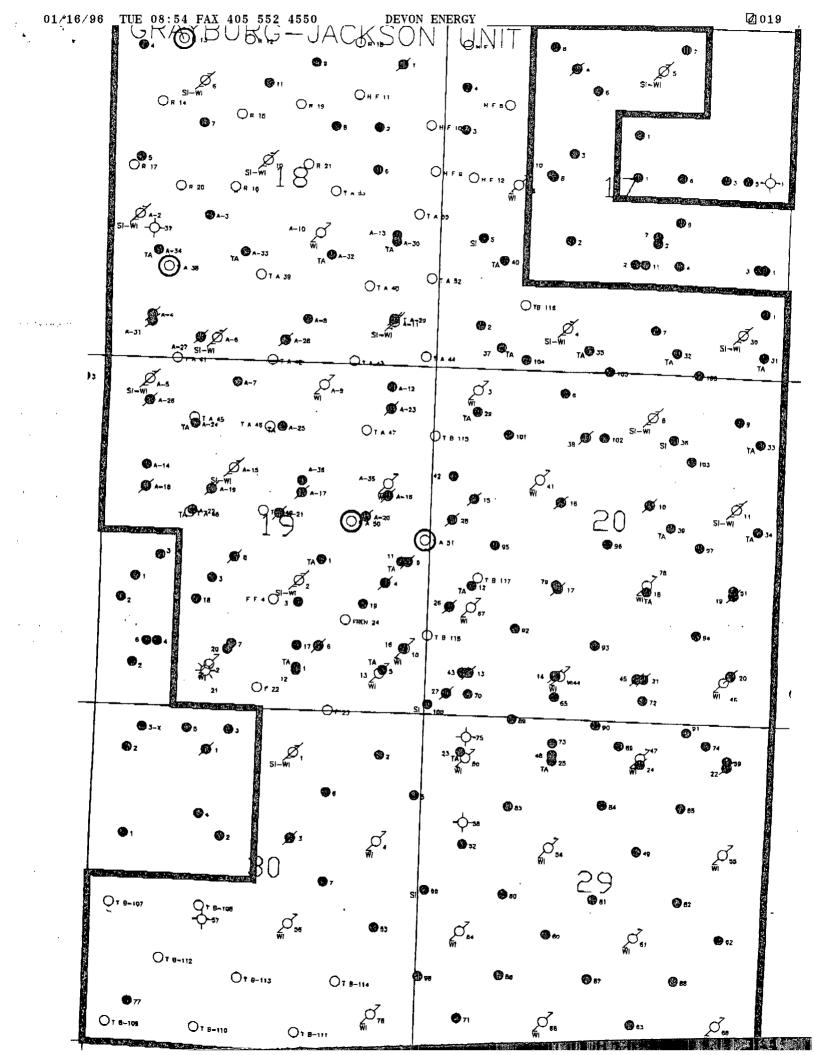
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Oil Conservation Division - Santa Fe, New Mexico Bureau of Land Management - Carlsbad, New Mexico Receipt Service.

\$00 No insurance Coverage Provided Do not use for international Mail Ste, 02 for #13 989 345 ESE 761 Certified Mail NST Russell Receipt for St, ₽ #38 Ϋ́ (See Reverse) Blura Receiat Showing to Whirm Oil Date, and Addressed's Address Cherry Whom & Date Delivered WOYTH Return Receipt Showing Sert 10 Burnett STREET DENIETY FEE Posimity or Date Notice Turner Breist Dehvery Fare Sircel 3 PS Form 3800, March 1993

DOMESTIC RETURN RECEIPT is your RETURN ADDRESS completed on the reverse side? PS Form 3811, December 1991 AU.S. GPO: 1888-362-714 Signature (Agent) (bied si set bos Bereaupar ii yinO) aaatbbA e'aassatbbA .8 5. Signature (Addressee) VIEWING TO BIRD .T for using Marchandise ligM aserqxa 🔲 T Return Receipt for 000 🗆 Dertified 4b. Service Type 16102 XT Ft. Worth, betueni 🗌 Return Ster 801 Cherry St. **T200** Co Burnett Oil 989 SFE ESZ Z 48. Article Number 3. Article Addressed to: Consult postmester for fee 2, A Restricted Delivery does not permit. saesbbA s'eeasesbbA 🖂 .! · Attach this form to the front of the melipiece, or on the back if space return this card to you. :(99) following services (for an extra SENDER:

• Complete frems 1 and/or 2 for a also wish to receive the 8 ag



There are no operators that have production in offsetting 40 acre tracts. The two wells listed are offset by wells that are already operated by Devon Energy Operating Corporation; therefore, no notification is necessary.

Should you require any additional information regarding any of these unorthodox locations please notify me at 405-552-4527.

Sincerely,

Karen Byers

Engineering Technician

Form 3160-3 (December 1990)

## UNITED STATES **OPERATOR** SPECIFY DEPARTMENT OF THE INTERIOR (See other instructions on reverse side)

Form approved.

.~	BUREAU OF LAM		5.LEASE DESIGNATION AND SERIAL NO. LC 029395-A				
	APPLICATION FOR PERMI	T TO DRILL OR DEEPEN			DIAN, ALLOTTEE OR TRI	BE NAME	
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h TYPE OF WELL:				7.UNIT A	AGREEMENT NAME		
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2 NAME OF OPERA	TOR  DEVON ENERGY OPERA	TIME CODDODATION		l .	"A" #39	<i>.</i> .	
3. ADDRESS AND TI		TING CORPORATION		9.API W	ELL NO		
3. ADDRESS AND 11		E 1500, OKC, OK 73102 (40	<b>15) 552-4560</b>			· · · · · · · · · · · · · · · · · · ·	
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	AND DIRECTION FROM NEAREST TOWN OF	POST OFFICE*		12. COU	NTY OR PARISH	13. STATE	
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15.DISTANCE FROM PROP		16.NO. OF ACRES IN LEASE		<u>L</u>	17.NO. OF ACRES A	SSIGNED	
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(Also to nearest drig unit ling) 18.DISTANCE FROM PROP	ne if any)	19.PROPOSED DEPTH			20.ROTARY OR CABL	F TOOLS*	
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2 1/4"	8 5/8" J-55	24.0#	450'		sk Class "C"		
7 7/8"	5 1/2" J-55	15.5#	4200'		550 sk Lite cmt + 425	sk Class "H"	
outlined in the fo Drilling Program Exhibits #1/1-A Exhibit #2 Exhibit #3/3-A Exhibit #4 Exhibit #5 Exhibit #6 Exhibit #7 H2S Operating P	= Blowout Prevention Equip = Location and Elevation Pl = Road Map and Topo Map = Wells Within 1 Mile Radio = Production Facilities Plat = Rotary Rig Layout = Casing Design Plan  ESCRIBE PROPOSED PROGRAM	ments.  The undersigned terms, conducted or conducted or thereof, as depended to the conducted Description of the conducted Descript	gned accepts all application, stipulations and concerning operations the leased land or por escribed below: C029395-A iption: Section 18-T17X age: Statewide in CO, No.: CO1151	tions  -R31E  NM, UT	T, & WY	Done. If proposal	
4. SIGNED JO	ectionally, give pertinent data on sul		JACKSON CT ENGINEER DA:	re/_ A	///4/95 APPROVAL SUBJECT GENERAL REQUIRE	T TO	
	not warrant or certify that the applicant I PROVAL, IF ANY:  Lary Barry	TITLE Ser AF	ee Maneger				
		See Instructions On Rev	erse Side			**	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980

#### State of New Mexico Energy, Minerals, and Natural Resources Department

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT II P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410

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

AMENDED REPORT

DISTRICT IV P. O. Box 2088 Santa Fe. NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT <sup>2</sup> Pool Code 3 Pool Name 1 API Number Grayburg Jackson (QN, SR, GB, SA) Well Number \* Property Code <sup>5</sup> Property Name TURNER A 39 16001 • Elevation 'OGRID No. Operator Name DEVON ENERGY OPERATING CORP. 3745' 136025 "SURFACE LOCATION Range Lot Ida Feet from the North/South line Feet from the East/West line UL or lot no. Section Township County 1310' 2300' 17 SOUTH 31 EAST, N.M.P.M. SOUTH 18 WEST **EDDY** "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lot Ida Feet from the North/South line Feet from the East/West line UL or lot no. Section Range Township County 13 Joint or Infill 14 Consolidation Code 15 Order No. 12 Dedicated Acres 40 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature land below Printed Name Randy Jackson. District Engineer SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey SEPTEMBER Signature and Sea Wi ME *2300* V. LYNN BEZNER 1310' JOB #41653-19/ 98 SW

Form 3160-3 (December 1990)

## UNITED STATES OPE

### OPERATOR'S COPY

Form approved.

	BUREAU OF LAI	ND MANAGEMENT	reverse stoe)		E DESIGNATION AND SE	RIAL NO.		
	APPLICATION FOR PERMI	IT TO DRILL OR DEEPEN		6. IF D	NDIAN, ALLOTTEE OR T	RIBE NAME		
la TYPE OF WORK:	DRILL 🔀	DEEPEN						
b TYPE OF WELL:	OAS Other	SINOLE ZONE	MULTIPLE ZONE	NA NA	AGREEMENT NAME			
2 NAME OF OPERAT				1	or lease name, well r "A" #44	NO.		
3. ADDRESS AND TE		11210 0010 01111111		9.API	WELL NO.			
J. 12010001212,44	20 N. BROADWAY, SUIT	E 1500, OKC, OK 73102	(405) 552-4560					
	LL (Report location clearly and in ac FSL & 160' FEL	,	rements)* SUBJECT TO	GRAY	D AND POOL, OR WILD BURG-JACKSON			
At top proposed prod.	zone (SAME) Star	ndard	LIKE APPROVAL BY STATE	i i	ION 18 -T17 S - R31			
14.DISTANCE IN MILES A	AND DIRECTION FROM NEAREST TOWN O			12. CO	UNTY OR PARISH	13. STATE		
5 miles east & 1 mile	e north of Loco Hills, N.M.			EDDY		MM		
15.DISTANCE FROM PROPO		16.NO. OF ACRES IN LEASE			17.NO. OF ACRES			
LOCATION TO NEAREST PROPERTY OR LEASE L	4.601	609.43			TO THIS WELL			
(Also to nearest drig, unit lin	e if any)							
18.DISTANCE FROM PROPO TO NEAREST WELL, DR		19.PROPOSED DEPTH 4200'			20.ROTARY OR CA	BLE TOOLS*		
OR APPLIED FOR, ON		1800	<u> </u>		Rotary			
21.ELEVATIONS (Show when 3669'	ther DF, RT, GR, etc.)	,			approx. Date work inuary 1, 1996			
23.		PROPOSED CASING AND	CEMENTING PROGRAM					
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY	OF CEMENT		
12 1/4"	8 5/8" J-55	24.0#	450'		125 sk Lite cmt + 2	200 sk Class "C"		
7 7/8"	5 1/2" J-55	15.5#	4200'		L25 sk Lite cmt + 200 sk Class "C"  550 sk Lite cmt + 425 sk Class "H"			
Drilling Program Exhibits #1/1-A = Exhibit #2 = Exhibit #3/3-A = Exhibit #4 = Exhibit #5 = Exhibit #6 = Exhibit #7 = H2S Operating P	Blowout Prevention Equip Location and Elevation Pl Road Map and Topo Map Wells Within 1 Mile Radi Production Facilities Plat Rotary Rig Layout Casing Design	The under terms, contact restriction conducted thereof, a Lease No Legal Des Bond Coy BLM Bond Coy Contact the con	ersigned accepts all application, stipulations and ons concerning operation d on the leased land or plus described below:  LC029395-A scription: Section 18-T1' werage: Statewide in CO and No.: CO1151	d as cortions & 7X-R31E D, NM, U	T, & WY 5	To Chi		
24.	oronas,, gree per thiene data on su	Boarrace rocations and incasu	red and true vertical depuis. G	ive blowout	preventer program,	II any.		
SIGNED O	ms Jackson		DY JACKSON RICT ENGINEER D	ATE/	1/14/95			
*(This space for Feder	ral or State office use)			<u> </u>	APPROVAL SL	IBJECT TO		
PERMIT NO			APPROVAL DATE			QUIREMENTS AN		
Application approval does r CONDITIONS OF APP	not warrant or certify that the applicant PROVAL, IF ANY:	holds legal or equitable title to tho	se rights in the subject lease which	would entitle	the applicant to conduct ATTACHED	t operations thereon.		
APPROVED BY	Jany Baum	TITLE For P	tres Hanegor	DA	ATE	56		
		See Instructions On	Reverse Side		•	-		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

<u>DISTRICT I</u> P. O. Box 1980 Hobbs, NM 88241-1980

DISTRICT II

State of New Mexico Energy, Minerals, and Natural Resources Department Form C-102 Revised 02-10-94

Instructions on back

#### P. O. Drawer DD Artesia, NM 88211-0719 OIL CONSERVATION DIVISION P. O. Box 2088

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410 Santa Fe, New Mexico 87504-2088 DISTRICT IV

AMENDED REPORT

Santa Fe, N	M 8750	7-2088	TELL LOCA	TION A	ND V	CRE	AGE D	EDICATION	PLAT	• •	
1 API Number			<sup>2</sup> Pool Code		3 Poc	Nar	ne :				
			<u> </u>			G:	raybur	g Jackso	on (ON, SR		
Property Coo	de	5 Property N	iame		TUF	RNE	• Well Number				
'OGRID No.		* Operator N	ame	-\/0\  "	* ICDC\	, n		MC CODD		• Elevation	
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Form 3160-3 (December 1990)

## UNITED STATES OPERATOR'S CORY

DEPARTMENT OF THE INTERIOR

Form approved.

-	BUREAU OF	LAND MANA	•	5. LEASE DESIGNATION AND SERIAL NO. LC 029395-A				
	APPLICATION FOR PER	RMIT TO DRIL	L OR DEEPEN		6. IF	INDIAN, ALLOTTEE OR	TRIBE NAME	
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oil MEED.	OAS Other		SINGLE ZONE	MULTIPLE ZONE	NA_		<del></del>	
2 NAME OF OPERA		PATING CO	PPOPATION		•	rm or lease name, wei mer "A" #53	L NO.	
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TO NEAREST WELL,	DRILLING, COMPLETED,	4200'				Rotary		
OR APPLIED FOR, O 21.ELEVATIONS (Show w						22. APPROX. DATE WORK	WILL START*	
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SIZE OF HOLE	GRADE, SIZE OF CASING		GHT PER FOOT	SETTING DEP			TY OF CEMENT	
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Drilling Progra Exhibits #1/1-A Exhibit #2 Exhibit #3/3-A Exhibit #4	<ul> <li>Blowout Prevention Eq</li> <li>Location and Elevation</li> <li>Road Map and Topo M</li> <li>Wells Within 1 Mile R</li> </ul>	quipment 1 Plat Iap adius	terms, cond restrictions conducted o	gned accepts all ap lition, stipulations a concerning operation the leased land or lescribed below:	ind ons		Nov 20	
Exhibit #5	= Production Facilities P	lat	Lease No. L		۶			
Exhibit #6	= Rotary Rig Layout			iption: Section 18-T			ं व	
Exhibit #7	= Casing Design			age: Statewide in (	CO, NM,			
<b>H2S Operating</b>	Plan		BLM Bond	No.: CO1151		<u>C</u>	[T]	
						- Andrews		
N ABOVE SPACE D	ESCRIBE PROPOSED PROGR	AM: If proposal	is to deepen, give dat	a on present productive	zone and n	roposed new produktiv	ve zone If proposal	
s to drill or deepen di	rectionally, give pertinent data or	n subsurface loca	ations and measured	and true vertical depths.	Give blow	out preventer progran	n, if any.	
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pplication approval doe.	s not warrant or certify that the applic PPROVAL, IF ANY:	ant holds legal or e	equitable title to those ri	ghts in the subject lease which	ch would enti	SPECIAL STI	ct operations thereon.	
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Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102 Revised 02-10-94

Instructions on back
Submit to the Appropriate
District Office
State Lease — 4 copies
Fee Lease — 3 copies

DISTRICT II
P. O. Drower DD
Artesia, NM 88211-0719
OIL

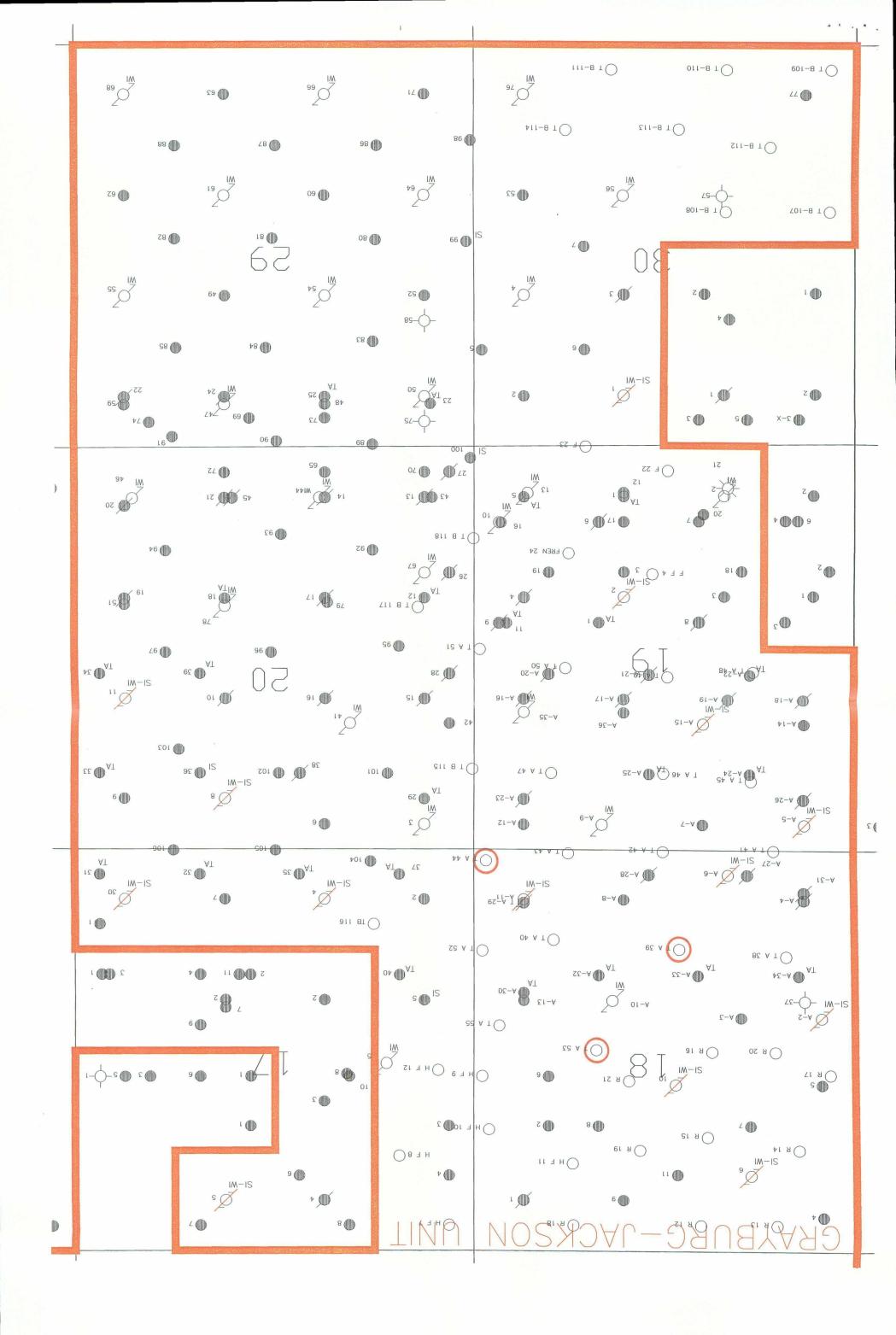
DISTRICT III
1000 Rio Brazos Rd.
Aztec. NM 87410

Santa Fe

OIL CONSERVATION DIVISION
P. 0. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

DISTRICT P. O. Box Santa Fe, N	2088	07-2088	WELL	LOCA	TION A	AND A	CRE	AGE D	EDICATIO	N I	PLAT			
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*Property Co		5 Property	Name			TUI	RNE	R A	•			• Vell Number 53		
OGRID No.		* Operator	Name					189		• Elevation	<b>,</b> ,-			
13602	5			DI	EVON E	ENERG'	ERGY OPERATING CORP. 3703							
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## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3521 Order No. R-3185

APPLICATION OF SINCLAIR OIL & GAS COMPANY FOR THREE WATERFLOOD PROJECTS, EDDY COUNTY, NEW MEXICO.

See Also Orules Nos.

R-3185-A

R- 3528

ORDER OF THE COMMISSION

R-3528-A

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 25, 1967, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 1st day of February, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Sinclair Oil & Gas Company, seeks authority to institute three waterflood projects in the Grayburg-Jackson Pool by the injection of water into the Grayburg-San Andres formations through two wells on its C. A. Russell Lease, eight wells on its Turner "A" Lease, and nine wells on its Turner "B" Lease in Sections 17, 18, 19, and 20, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the applicant also seeks an administrative procedure whereby said projects could be expanded to include additional lands and injection wells in the area of said projects as may be necessary in order to complete an efficient injection pattern.
- (4) That the wells in each of the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.

CASE No. 3521 Order No. R-3185

- (5) That the proposed waterflood projects should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the projects should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Sinclair Oil & Gas Company, is hereby authorized to institute three waterflood projects in the Grayburg-Jackson Pool by the injection of water into the Grayburg-San Andres formations through the following-described 19 wells in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico:

#### Sinclair Russell Grayburg-Jackson Waterflood Project

#### Injection wells:

C,	A.	Russell	Well	No.	6	979'	FNL	&	1400'	FWL	Section	18
		Russell				2147'	FNL	હ	2374'	FWL	Section	18

#### Sinclair Turner "A" Grayburg-Jackson Waterflood Project

#### Injection wells:

Turner	"A"	SP	Well	No.	2	22201	FSL	&	427	FWL	Section	18
Turner	"A"	SP	Well	No.	5	332	FNL	&	670 <b>'</b>	FWL	Section	19
Turner	"A"	SP	Well	No.	6	568 <b>'</b>	FSL	&	1707'	FWL	Section	18
Turner	"A"	SP	Well	No.	9	408'	FNL	&	1994	FEL	Section	19
Turner	"A"	SP	Well	No.	10	1940'	FSL	&	1839'	FEL	Section	13
Turner	"A"	SP	Well	No.	11	589 <b>'</b>	FSL	&	655	FEL.	Section	18
Turner	"A"	SP	Well	No.	15	1635'	FNL	&	1698'	FWL	Section	19
Turner	"A "	SP	Well	No.	35	700'	FEL	&	1840'	FNL	Section	19

#### Sinclair Turner "B" Grayburg-Jackson Waterflood Project

#### Injection wells:

Turner	"B"	SP	Well	No.	3	309'	FNL &	666	FWL	Section	20
Turner	"B"	SP	Well	No.	4	700'	FSL &	1751'	FWL	Section	17
Turner	,"B"	SP	Well	No.	. 5	1989	FSL &	625 t	FWL	Section	17
Turner	"B"	SP	Well	No.	- 8	504	FNL &	2064	FEL	Section	20
Turner	"B".	SP	Well	No.	11	1785	FNL &	725	FEL	Section	20
Turner	"B"	SP	Well	No.	30	680'	FSL &	6321	FEL	Section	17
Turner	"B"	SP	Well	No.	41	1635'	FNL &	1665'	FWL	Section	20
Turner	"B"	SP	Well	No.	67	1650'	FSL &	660'	FWL	Section	20
Turner	"B"	SP	Well	No.	78	2130'	FSL &	1980'	FEL	Section	20

(2) That the subject waterflood projects shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations;

PROVIDED HOWEVER, that the Secretary-Director of the Commission may approve expansion of said projects to include such additional lands and injection wells in the area of said projects as may be necessary to complete an efficient water injection pattern.

- (3) That monthly progress reports of the waterflood projects herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

CASE No. 3521 Order No. R-3185-A

IN THE MATTER OF THE APPLICATION OF SINCLAIR OIL & GAS COMPANY FOR THREE WATERFLOOD PROJECTS, EDDY COUNTY, NEW MEXICO.

See Alu Onder Noz. R-3185 R-3528 R-3528-A

#### NUNC PRO TUNC ORDER

#### BY THE COMMISSION:

It appearing to the Commission that through inadvertence, Order No. R-3185, dated February 1, 1967, does not reflect the true and correct locations of certain existing wells which were authorized for conversion to water injection by said order,

#### IT IS THEREFORE ORDERED:

(1) That the following well locations are hereby substituted in lieu of those shown in Order No. R-3185 to correctly reflect the locations of water injection wells authorized by said Order No. R-3185:

#### Sinclair Russell Grayburg-Jackson Waterflood Project

#### Injection wells:

C.	A.	Russell	Well	No.	6	990'	FNL	δ.	1384'	FWL	Section	18
C.	A.	Russell	Well	No.	10	2200'	FNL	&	2665'	FEL	Section	18

#### Sinclair Turner "A" Grayburg-Jackson Waterflood Project

#### Injection wells:

Turner	"A"	SP	Well	No.	2	2200'	FSL	&	440'	FWL	Section 18
Turner	"A"	SP	Well	No.	· 5	330'	FNL	&	660'	FWL	Section 19
Turner	"A"	SP	Well	No.	6	6601	FSL	&	1980'	FWL	Section 18
Turner	"A"	SP	Well	No.	9	3301	FNL	&	1980'	FEL	Section 19
Turner	"A"	SP	Well	No.	10	1980'	FSL	&	1830'	FEL	Section 18
Turner	"A"	SP	Well	No.	11	6601	FSL	&	660'	FEL	Section 18
Turner	"A"	SP	Well	No.	15	1650'	FNL	&	1980'	FWL	Section 19
Turner	"A"	SP	Well	No.	35	1800'	FNT.	æ	660'	FET.	Section 19

-2-CASE No. 3521-Order No. R-3185-A

#### Sinclair Turner "B" Grayburg-Jackson Waterflood Project

#### Injection wells:

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Turner "B" SP Well No. 3 330' FNL & 660' FWL
                                                            Section 20
Turner "B" SP Well No. 4
                                660' FSL & 1980' FWL
                                                            Section 17
Turner "B" SP Well No. 5 1980' FSL & 660' FWL Turner "B" SP Well No. 8 660' FNL & 1980' FEL
                                                            Section 17
                                660' FNL & 1980' FEL
                                                            Section 20
Turner "B" SP Well No. 11 1980' FNL & 660' FEL
                                                            Section 20
Turner "B" SP Well No. 30
                                660' FSL & 660' FEL
                                                            Section 17
Turner "B" SP Well No. 41
Turner "B" SP Well No. 67
Turner "B" SP Well No. 78
Turner "B" SP Well No. 41
                                1650' FNL & 1650' FWL
                                                            Section 20
                                1650' FSL & 660' FWL
                                                            Section 20
                                2080' FSL & 1980' FEL
                                                            Section 20
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(2) That this order shall be effective nunc pro tunc as of February 1, 1967.

DONE at Santa Fe, New Mexico, on this 19th day of February, 1968.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS, Member

A. L. PORTER, Jr., Member & Secretary

SEAL

### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 3885 Order No. R-3528

APPLICATION OF SINCLAIR OIL & GAS COMPANY FOR A WATERFLOOD EXPANSION, EDDY COUNTY, NEW MEXICO.

See Alie Oules Noz.

P- 3185

ORDER OF THE COMMISSION

R-3185-A

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 9, 1968, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 22nd day of October, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Sinclair Oil Corporation, formerly Sinclair Oil & Gas Company, seeks permission to expand its Turner "B" Grayburg-Jackson Waterflood Project in the Grayburg-Jackson Pool by the injection of water into the Premier Sand of the Grayburg formation through 12 additional injection wells in Sections 20, 29, and 30, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (3) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells.
- (4) That the proposed expansion of the Turner "B" Grayburg-Jackson Waterflood Project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

Order No. R-3528 4 . Bearingstown in the fact agreed

(5) That the subject application should be approved and the expanded project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

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#### IT IS THEREFORE ORDERED:

(1) That the applicant, Sinclair Oil Corporation, formerly Sinclair Oil & Gas Company, is hereby authorized to expand its Turner "B" Grayburg-Jackson Waterflood Project in the Grayburg-Jackson Pool by the injection of water into the Premier Sand of the Grayburg formation through the following-described wells in Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico:

LEA	SE		WELL	NO.	UNIT	SECTION
Turner	"B"	SP	1 May 2 44	4 9 1	<b>N</b>	20
Turner	"B"	SP	46		P	20
Turner	"B"	SP	47		<b>B</b>	29
Turner	"B"	SP	50		D	29
Turner	"B"	SP	54	1. The state of th	F	29
Turner	"B"	SP	55	enter de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della	or a section of the s	29
Turner	"B"	SP	61		J	29
Turner	"B"	SP	64		, <b>L</b>	29
Turner	"B"	SP	66		N	29
Turner	"B"	SP	. 68		P	29
Turner	"B"	SP	56	**	J	30
Turner	"B"	SP	76		P	30

- (2) That the expanded waterflood project shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That monthly progress reports of the expanded waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

CALLER SERVER

DAVID F. CARGO, Chairman

. GUYTON B. HAYS, Member

SEAL

A. L. PORTER, Jr., Member & Secretary

# 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. 10290 Order No. R-3528-A

APPLICATION OF AVON ENERGY CORPORATION FOR AMENDMENT OF DIVISION ORDER NOS. R-3185, R-3185-A AND R-3528 TO EXPAND THE VERTICAL LIMITS AND TO ESTABLISH AN INJECTION PRESSURE LIMITATION FOR THE TURNER "B" LEASE WATERFLOOD PROJECT, EDDY COUNTY, NEW MEXICO.

See Also Onles No.

R-3185 R-3185-A R-3528

#### ORDER OF THE DIVISION

#### BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on August 8, 1991, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 23rd day of September, 1991, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) By Order No. R-3185, dated February 1, 1967, the Division authorized Sinclair Oil & Gas Company to institute three waterflood projects, the Russel Grayburg-Jackson Waterflood Project, Turner "A" Grayburg-Jackson Waterflood Project, and the Turner "B" Grayburg-Jackson Waterflood Project, said projects comprising all or portions of Sections 17, 18, 19, 20, 29 and 30, Township 17 South, Range 31 East, NMPM, Grayburg-Jackson Pool, Eddy County, New Mexico, by the injection of water into the Grayburg-San Andres formation through two, eight and nine injection wells located within said projects, respectively.

- (3) By Nunc Pro Tunc Order No. R-3185-A, dated February 19, 1968, the Division corrected certain injection well locations authorized by said Order No. R-3185.
- (4) By Order No. R-3528, dated October 9, 1968, the Division authorized Sinclair Oil Corporation to expand its Turner "B" Grayburg-Jackson Waterflood Project by the injection of water into the Premier Sand member of the Grayburg formation through twelve injection wells located in Sections 20, 29 and 30, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico, hereinafter referred to as the "Expansion Area".
- (5) The current boundaries of the Russel Grayburg-Jackson Waterflood Project, Turner "A" Grayburg-Jackson Waterflood Project, Turner "B" Grayburg-Jackson Waterflood Project (including the "Expansion Area"), and the Grayburg-Jackson Friess-Fren Waterflood Project (also located in said Sections 19 and 30 and approved by Division Order No. R-4306) are as follows:

Russel Grayburg-Jackson Waterflood Project TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 18: NW/4, W/2 NE/4

Turner "A" Grayburg-Jackson Waterflood Project TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 18: S/2 Section 19: N/2

Turner "B" Grayburg-Jackson Waterflood Project TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 17: NW/4 SW/4, S/2 S/2

Section 20: All Section 29: All Section 30: SE/4

Grayburg-Jackson Friess-Fren Waterflood Project TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 19: E/2 SW/4, SE/4

Section 30: NE/4

- (6) The Russel Grayburg-Jackson, Turner "A" Grayburg-Jackson, Grayburg-Jackson Friess-Fren and portions of the Turner "B" Grayburg-Jackson Waterflood Projects are currently owned and operated by Socorro Petroleum Company.
- (7) The applicant, Avon Energy Corporation, a 50% owner of Socorro Petroleum Company, currently operates a portion of the Turner "B" Grayburg-Jackson Waterflood Project comprising the following described acreage:

#### TOWNSHIP 17 SOUTH, RANGE 31 EAST, NMPM

Section 20: S/2 N/2, S/2

Section 29: All

Section 30: E/2 SE/4

- (8) The applicant in this case, Avon Energy Corporation, seeks the following:
  - 1) The amendment of Division Order No. R-3528 by expanding the injection interval in the twelve injection wells approved by said order to include the entire Grayburg-San Andres formation;
  - 2) The establishment of an injection pressure limitation of 450 psi above the formation fracture pressure as determined from step rate tests for those twelve injection wells located within the "Expansion Area".
  - The establishment of an administrative procedure whereby acreage currently contained within the Russel Grayburg-Jackson, Turner "A" Grayburg-Jackson, Turner "B" Grayburg-Jackson, and Grayburg-Jackson Friess-Fren Waterflood Projects may be transferred to Avon Energy Corporation and operated as a single waterflood project.
- (9) According to applicant's evidence, Avon Energy Corporation currently has a farmout agreement with Socorro Petroleum Company whereby Avon earns acreage from Socorro as said acreage is drilled or otherwise further developed.
- (10) Further evidence presented indicates that all of the acreage within the subject waterflood projects is Federal lands.

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- (11) The transfer and operation of such acreage should result in a more efficient operation, will result in the recovery of additional oil within the projects, and will not violate correlative rights.
- (12) According to applicant's evidence and testimony, expansion of the injection interval within those wells located in the "Expansion Area" will result in the recovery of an additional 2.3 million barrels of oil which would not otherwise be recovered, thereby preventing waste.
- (13) The proposed expansion of the injection interval within those wells located in the "Expansion Area" should be approved.
- (14) The Division has determined, after consultation with the applicant prior to the hearing, that certain "Area of Review" wells located within the "Expansion Area" are not completed in such a manner which will assure that their wellbores will not serve as a conduit for migration of the injected fluid from the proposed injection zone.
- (15) Prior to commencing injection operations within one-half mile of any of the following described wells, or prior to injecting into the Turner "B" Well No. 56 located in Unit J of said Section 30, the applicant should be required to perform remedial cement operations or take other action as may be necessary in order to assure that these wellbores will not serve as a conduit for migration of injected fluid to the satisfaction of the supervisor of the Artesia district office of the Division:

Turner "B" No. 55	Unit H, Section 29, T-17S, R-31E
Turner "B" No. 60	Unit K, Section 29, T-17S, R-31E
Turner "B" No. 68	Unit P, Section 29, T-17S, R-31E
Turner "B" No. 71	Unit M, Section 29, T-17S, R-31E

- (16) No injection pressure limitation currently exists on any of the injection wells in the subject waterflood projects, however, by virtue of amending the injection interval in those injection wells located within the "Expansion Area", the Division would normally impose a surface injection pressure limitation on those wells equal to 0.2 psi per foot of depth to the uppermost perforations.
- (17) The applicant presented the results of step-rate tests conducted on three injection wells within the "Expansion Area". The results of these step rate tests show an average formation fracture pressure of 1208 psi.

- (18) The applicant's engineering study of pressure limits based upon Frac Hite, Frac Migration, and After Frac Logs (submitted as evidence in this case) provides substantial evidence to demonstrate that injection at 1650 psi (450 psi above the formation parting pressure) will not propagate fractures outside of the vertical limits of the Grayburg-Jackson Pool.
- (19) The requested increase in surface pressure limitations for the "Expansion Area" will approximate the surface injection pressure for the original injection wells for which no pressure limit was imposed.
- (20) Engineering studies conducted on behalf of the applicant have demonstrated that the water injected into the original injection wells at pressures up to an average of 1870 psi remained confined to the Grayburg-Jackson Pool.
- (21) There is no indication that water injected into the original injection wells at pressures higher than those sought by the applicant in this case has moved water outside of the vertical limits of the Grayburg-Jackson Pool.
- (22) Applicant's request is similar to the request previously approved by the Division Order R-2268-C for Socorro Petroleum Company and for which no adverse effects have been reported.
- (23) Injection into the twelve subject injection wells at a surface injection pressure of approximately 450 psi above formation fracture pressure will allow the recovery of additional oil reserves within the Grayburg-Jackson Pool, thereby preventing waste, will not endanger any fresh water aquifers, and should therefore be approved.
- (24) As the reservoir pressure in the "Expansion Area" increases as a result of the injection of water, it will be necessary to periodically increase the surface pressure limitation for the project which should be authorized administratively.
- (25) The applicant should be required to submit a request to the Santa Fe and Artesia offices of the Division and to the United States Bureau of Land Management (BLM) for transfer of acreage from the Socorro Petroleum Company operated Turner "A" Grayburg-Jackson, Turner "B" Grayburg-Jackson, Grayburg-Jackson Friess-Fren and Russel Grayburg-Jackson Waterflood Projects into the Avon operated Turner "B" Grayburg-Jackson Waterflood Project. Such request should be in general letter form along with a plat of the projects showing the requested acreage to be transferred.

#### IT IS THEREFORE ORDERED THAT:

- (1) Division Order Nos. R-3185, R-3185-A and R-3528 are hereby amended authorizing Avon Energy Corporation to inject water into the Grayburg-San Andres formation, Grayburg-Jackson Pool, through the twelve injection wells (previously approved for injection by Order No. R-3528) shown on Exhibit "A" attached hereto located within the "Expansion Area" of the Turner "B" Grayburg-Jackson Waterflood Project comprising all or portions of Sections 20, 29 and 30, Township 17 South, Range 31 East, NMPM, Eddy County, New Mexico.
- (2) The twelve subject injection wells or pressurization system shall be equipped with a pressure limiting device which will limit the surface injection pressure on said wells to no more than 1650 psi.
- (3) The Division Director shall have the authority to administratively approve subsequent pressure increases on said wells to 450 psi above fracture pressure, provided, however, that step-rate tests, temperature surveys, tracer surveys or other supporting data the Division may deem necessary accompany such requests.
- (4) The Division Director shall also have the authority to reduce or rescind said injection pressures should it become apparent that the injected fluid is not being adequately confined to the Grayburg-Jackson Pool.
- (5) Prior to commencing injection operations within one-half mile of any of the following described wells, or prior to injecting into the Turner "B" Well No. 56 located in Unit J of said Section 30, the applicant shall perform remedial cement operations or take other action as may be necessary in order to assure that these wellbores will not serve as a conduit for migration of injected fluid to the satisfaction of the supervisor of the Artesia district office of the Division:

Turner "B" No. 55	Unit H, Section 29, T-17S, R-31E
Turner "B" No. 60	Unit K, Section 29, T-17S, R-31E
Turner "B" No. 68	Unit P, Section 29, T-17S, R-31E
Turner "B" No. 71	Unit M, Section 29, T-17S, R-31E

- (6) The Division Director may authorize the transfer of acreage currently contained within the Socorro Petroleum Company operated Turner "A" Grayburg-Jackson, Turner "B" Grayburg-Jackson, Grayburg-Jackson Friess-Fren and Russel Grayburg-Jackson Waterflood Projects into the Avon operated Turner "B" Grayburg-Jackson Waterflood Project provided a request for such transfer of acreage is submitted to the Santa Fe and Artesia offices of the Division and to the United States Bureau of Land Management (BLM). Such request shall be in general letter form along with a plat of the projects showing the requested acreage to be transferred.
- (7) Jurisdiction is hereby 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

WILLIAM J. LEMA

Director

SEAL

EXHIBIT "A"

CASE NO. 10290

DIVISION ORDER NO R-3528-A

TURNER "B" GRAYBURG-JACKSON WATERFLOOD PROJECT

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Well Number	Location	Unit	S-T-R	Injection Perforations	Packer Depth	Tubing Size	Injection Pressure
Turner "B" No. 44	660' FSL & 2055' FWL	z	20-17S-31E	TBD*	TBD*	2 3/8	1650
Turner "B" No. 46	660' FSL & 760' FEL	Ь	20-17S-31E	TBD*	TBD*	2 3/8	1650
Turner "B" No. 47	560' FNL & 1980' FEL	В	29-17S-31E	3045' - 3412'	2945'	2 3/8	1650
Turner "B" No. 50	660' FNL & 660' FWL	D	29-17S-31E	2978' - 3330'	2878'	2 3/8	1650
Turner "B" No. 54	1980' FNL & 1980' FWL	ίĽ	29-17S-31E	3108' - 3404'	3008	2 3/8	1650
Turner "B" No. 55	1980' FNL & 660' FEL	Н	29-17S-31E	TBD•	TBD*	2 3/8	1650
Turner "B" No. 56	1980' FSL & 1980' FEL	ſ	30-17S-31E	TBD•	TBD•	2 3/8	1650
Turner "B" No. 61	1980' FSL & 1980' FEL	J	29-17S-31E	3254' - 3646'	3154'	2 3/8	1650
Turner "B" No. 64	1980' FSL & 660' FWL	Γ	29-17S-31E	3146' - 3557'	3046'	2 3/8	1650
Turner "B" No. 66	660' FSL & 1980' FWL	z	29-17S-31E	3281' - 3678'	3181'	2 3/8	1650
Turner "B" No. 68	660' FSL & 660' FEL	Ь	29-17S-31E	TBD•	TBD*	2 3/8	1650
Turner "B" No. 76	660' FSL & 660' FEL	Ь	30-17S-31E	TBD*	TBD*	2 3/8	1650
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