



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

May 8, 2001

Shahara Oil, LLC
207 West McKay
Carlsbad, New Mexico 88220

Attn: Mr. Perry L. Hughes

**RE: Injection Pressure Increase,
Premier Sand Unit EOR Project,
Eddy County, New Mexico**

Reference is made to your request dated February 28, 2001 to increase the surface injection pressure on three wells in the above-referenced EOR project. This request is based on a step rate test conducted on February 19, 2001. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following wells:

<i>Recently Tested Well Name and Number</i>	<i>Adjacent Well Name and Number</i>	<i>ULSTR</i>	<i>Authorized Pressure</i>
Premier Sand Unit No. 11		D-27-17S-30E	1525 PSIG
	Premier Sand Unit No. 6	E-27-17S-30E	1525 PSIG
	Premier Sand Unit No. 12	D-27-17S-30E	1525 PSIG
All wells located in Eddy County, New Mexico.			

The Division Director may rescind these injection pressure increases if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery
Lori Wrotenbery
Director

LW/DRC

cc: Oil Conservation Division - Artesia
Files: Case No. 12440, WFX-767; IPI 2001

106529405 1 P1 N/R

Shahara Oil, LLC

207 West McKay Carlsbad, NM 88220 505-885-5433 (Phone) 505-885-4989 (Fax)

01 MAR -2 PM 1:54

February 28, 2001

Mr. David Catanach
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87504

Re: Order Nos. R-2749, R-2749A & WFX 767
Shahara Premier Sand Unit EOR Project
Step Rate Test
Eddy County, New Mexico

Dear Mr. Catanach,

Shahara Oil, LLC operator for AROC (Texas) Inc. has initiated injection into an additional well in the referenced project. This well was approved for injection under Order No WFX 767. A step rate test has been conducted by Holmes Wireline Service. We request that the resulting maximum allowable surface pressure be applied to two additional injection wells in the same quarter section.

Well Name and Number	API Number	Footage Location	ULSTR	Step Rate Test Result *	Request Maximum Surface Pressure
Grayburg Jackson PSU AD No. 11	30-015-30008	1310' FNL & 1310' FEL	D-27-17S-30E	1575	1525
Grayburg Jackson PSU AD No. 6 **	30-015-10463	2310' FNL & 300' FWL	E-27-17S-30E		1525
Grayburg Jackson PSU AD No. 12**	30-015-30342	330' FNL & 330' FWL	D-27-17S-30E		1525

* See attached Holmes Wireline Service results.

** To be converted to an injector later this year - presently producing.

Your earliest consideration of this request is greatly appreciated.

Sincerely,


Perry L. Hughes

Attachments

PLH/tm

CASE FILE - 12440
WFX - 767



ACCU-LOG STEP RATE

PRODUCTION LOGGING

Company **AROC TEXAS**

Well **MADDREN D FEDERAL # 11**
Grayburg Jackson PSU AD No. 11
GRAYBURG JACKSON

File No.
B0102429.DB

County **EDDY** State **NEW MEXICO**

Location **1310' FNL & 1310' FWL**

Block **UNIT D** Section **27 T17-S R30-E**

Elevations:
K.B. --
D.F. --
G.L. --

Perm. Dat. **G.L.** Elev. **N/A** L.M.F. **KB**

Site	02-19-2001
Run Number	ONE
Time Log	TEMP-PSI
Depth - (Driller)	N/A
Depth - (Logger)	3030'
Bottom Logged Interval	3030'
Top Logged Interval	3030'
Drill Hole Fluid	WATER
Drill Level	FULL @ 1100 PSI
Max Recorded Temp.	86.3
Recorded By	C. DUGGER/M GARRETT
Witnessed By	MR. W. WHITE

EQUIPMENT AND TEST DATA

Run No.	ONE	Casing & Tubing Record			
Well Status	INJECTION	Size	Weight	From	To
Production - Oil, b/d	--	5 1/2"		SURF.	TD
Water, b/d	--	2 3/8"	TBG.	SURF.	2978'
Gas, mcf	--				
Injection Rate	0-1400				
Pressure - Tubing, psi	1100-1600				
Casing, psi	0			Packer @	2978'
Log Speed, fpm	--			Tbg Tail to	
Strip Sens, degF/in	--			Truck No.	105
R. Sens	--			Tool No.	1 1/2"

Perforations: 3042'-3199' (14 HOLES)

Remarks: INFORMATION RECEIVED FROM
COMPANY REPRESENTATIVE

Channeling:

Survey Data: PARTING PRESSURE AT 2855 BH PSI

TIME	RATE	BH PSI	SF PSI
11:09-11:14	0	2701	1100 SHUT-IN
11:14-11:45	200	2738	1200 SET RATE
11:45-12:15	400	2772	1300
12:15-12:45	600	2810	1500
12:45-1:15	800	2846	1550
1:15-1:45	1000	2868	1600
1:45-2:15	1200	2891	1600
2:15-2:45	1400	2910	1650

2855 = 1575 SF PSI

AROC (Texas)
Maddren D Federal #11 02-19-2001
Grayburg Jackson PSU AD No. 11

