

SWD 2/20/01
103846593

BILL F. HALEPESKA

PETROLEUM ENGINEER

Texas #58052
P. O. Box 80064
915/694-5945

796
GEOLOGIST
Cert #2941
Midland, Texas 79708

January 31, 2001

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505
Att: Mr. David R. Catanach

Re: Red Tank West Prospect U. S. 98191
Lea County, New Mexico
Application for Administrative Approval to Inject
Saltwater into the Aracanga Federal No. 1 Well, (30-025-31650)
Located 330' FSL & 2310' FEL Section 4, T-2 S,
R-32-E, U. S. M.

Gentlemen:

Pogo Producing Company respectfully submits two (2) original Applications for Authorization to Inject (Form C-108) pertaining to the captioned well and requests that same be given Administrative Approval.

Persuant thereto, please find enclosed the following:

- (1) Copy of Notification Letter sent to all offset Leasehold Operators within one-half (1/2) mile radius of the proposed injection well and to the surface owner upon which well is located, along with copies of proof of mailing; and
- (2) Proof of Legal Publication.

Notice was originally published in area newspaper on August 30, 2000, and proper notices mailed to offset operators on Sept. 5, 2000.
If you have any questions, please contact the undersigned.

Very truly yours,

Bill Halepeska

Bill F. Halepeska, P.E.
Agent

Enclosure(s)

cc w/encl.: New Mexico Oil Conservation Division
Hobbs, New Mexico

APR 30 2001

BILL F. HALEPESKA

PETROLEUM ENGINEER

Texas #58052
P. O. Box 80064
915/694-5945

GEOLOGIST

Cert #2941
Midland, Texas 79708

April 27, 2001

New Mexico Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87504
Att: Mr. David R. Catanach

Re: Red Tank West Prospect US - 98191
Lea County, New Mexico
Application for Approval to Inject Saltwater
into the Aracanga Federal No. 1 Well, Located
330' FSL & 2310' FEL Section 4, T- 23-S, R-32-E, U. S. M.

Dear Mr. Catanach:

Per your request for updated water data to support the referenced Application, we respectfully submit the attached information. Two analyses of produced water from wells nearby plus a fresh water from windmill in adjoining section are included. (map also attached with location of fresh water source).

If you have further questions, please contact the undersigned.

Very truly yours,



Bill F. Halepeska, P.E.
Agent

File 746

Endura Products Corp.

P.O. Box 3394 Midland, Texas 79706
Phone (915) 684-4233 * Fax (915) 684-4277

WATER ANALYSIS

Date: **04/24/01** Endura Rep.: **Greg Archer**
Sampling Point/Date: **Submersible Wellhead 04/19/01**
Company: **Pogo Producing Co**

Code: **W-28421**
State: **New Mexico**
County: **Lea**
Well: **Fresh H2O Well**

Lease: **Aracanga Federal**
LOC: **5RL 3, T235, R32E**

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na+ (Calc.)	322	14
Total Hardness as Ca++	48	0
Calcium, Ca++	20	1
Magnesium, Mg++	17	1
Barium, Ba++	0	0
Iron (Total) Fe+++*	1	0

ANIONS

Chlorides, Cl-	100	3
Sulfate, SO4-	400	8
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	293	5
Sulfide, S-*	0	0
Total Dissolved Solids (Calc.)	1,153	

OTHER PROPERTIES

pH*	7.264
Specific Gravity, 60/60 F.	1.000
Turbidity	7

SCALING INDICIES

<u>TEMP, F.</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	-0.6528	-1.7659	-1.9078	-27.7429
120	-0.4217	-1.7842	-1.7457	-27.9500
160	-0.1810	-1.7448	-1.5337	-28.0616

PERFORATIONS

Endura Products Corp.
P.O. Box 3394 Midland, Texas 79706
Phone (915) 684-4233 * Fax (915) 684-4277

WATER ANALYSIS

Date: 12/07/00	Endura Rep.: Greg Archer	Code: W-25621
Sampling Point/Date:	Wellhead 12/05/00	State: New Mexico
Company: Pogo Producing Co.		County: Lea
Lease: Covington A Federal		Well: 26

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na+ (Calc.)	94,599	4,113
Total Hardness as Ca++	16,400	0
Calcium, Ca++	12,400	620
Magnesium, Mg++	2,439	203
Barium, Ba++	0	0
Iron (Total) Fe+++*	23	1

ANIONS

Chlorides, Cl-	175,000	4,930
Sulfate, SO4-	250	5
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	122	2
Sulfide, S-*	0	0
Total Dissolved Solids (Calc.)	284,833	

OTHER PROPERTIES

pH*	5.271
Specific Gravity, 60/60 F.	1.182
Turbidity	110

SCALING INDICIES

<u>TEMP, F.</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.2103	-0.3937	-0.7604	-29.4963
120	0.7646	-0.4066	-0.5928	-29.6314
160	1.6023	-0.4231	-0.4367	-29.8381

<u>PERFORATIONS</u>	Middle Cherry Canyon: 6242 to 6252 6282 to 6294 6320 to 6340
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Endura Products Corp.
P.O. Box 3394 Midland, Texas 79706
Phone (915) 684-4233 * Fax (915) 684-4277

WATER ANALYSIS

Date: 01/06/2000	Endura Rep.: Greg Archer	Code: W-19442
Sampling Point/Date:	Wellhead /1-6-00	State: New Mexico
Company: POGO Producing Co.		County: Lea
Lease: Covington A Federal		Well: 34

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na+ (Calc.)	71,783	3,121
Total Hardness as Ca++	28,080	0
Calcium, Ca++	23,520	1,176
Magnesium, Mg++	2,780	232
Barium, Ba++	0	0
Iron (Total) Fe+++*	30	2

ANIONS

Chlorides, Cl-	160,000	4,507
Sulfate, SO4-	1,025	21
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	171	3
Sulfide, S-*	0	0
Total Dissolved Solids (Calc.)	259,309	

OTHER PROPERTIES

pH*	5.700
Specific Gravity, 60/60 F.	1.178
Turbidity	561

SCALING INDICIES

<u>TEMP, F.</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.9981	0.4645	0.1080	-29.4950
120	1.5416	0.4558	0.2797	-29.6351
160	2.3635	0.4382	0.4347	-29.8441

PERFORATIONS LOWER DELAWARE



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director

Oil Conservation Division

May 16, 2002

POGO Producing Company
C/O Bill F. Halepeska PE
P.O. Box 80064
Midland, TX 79708

Attention: Mr. Halepeska:

Re: Extension of Administrative Order SWD-796

Dear Mr. Halepeska:

As per your request on behalf of POGO Producing Company received in this office May 4, 2002, and for the reasons outlined in your letter, a one-year extension in which to convert to injection the Aracanga Federal Well No. 1, approved by Division Order No. SWD-796, is hereby granted.

The injection authority for this well shall expire on April 18, 2003, if the operator has not commenced injection operations.

Sincerely,

Lori Wrotenbery
Director

cc: Oil Conservation Division – Hobbs
Bureau of Land Management-Carlsbad
File SWD-796

MAY - 4

BILL F. HALEPESKA

PETROLEUM ENGINEER

**Texas #58052
P. O. Box 80064
915/694-5945**

GEOLOGIST

**Cert #2941
Midland, Texas 79708**

May 02, 2002

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Att: Mr. David R. Catanach

Re: Aracanga Federal Well No. 1 (API No. 30-025-31650)
Sec. 4, TWP 23S, R 32E, Lea County, New Mexico
Application for Approval to Inject Approved April
18, 2001. Authority Expired April 18, 2002

Gentlemen:

Per our earlier conversation, Pogo Producing Company respectfully requests an extension of 180 days for the referenced Approval. ROW authority for required saltwater transfer lines has been received from the BLM and work to convert the well to injection should commence in a short time.

If you have any questions, please contact the undersigned.

Very truly yours,



Bill F. Halepeska, P.E.
Agent