

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

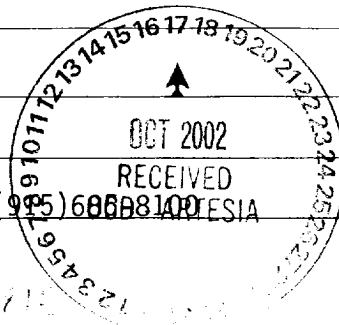
Pogo Producing Company

3. Address and Telephone No.

P. O. Box 10340, Midland, TX 79702-7340

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Section 17, T24S, R31E



5. Lease Designation and Serial No.
NM-89172

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

30-015-29279

8. Well Name and No.

Patton 17 Federal

9. API Well No.

10. Field and Pool, or Exploratory Area
Poker Lake Delaware

11. County or Parish, State

Eddy County, NM

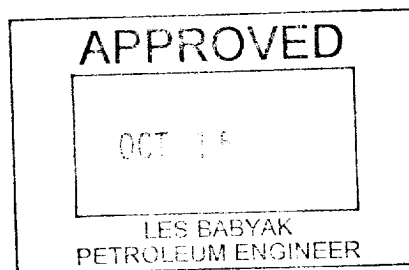
12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" 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	<input checked="" 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)*

SEE ATTACHED.



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

Signed

Cathy Imbail

Title

Sr. Operation Tech

Date

09/25/02

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Resource Area Headquarters

P. O. Box 1778

Carlsbad, New Mexico 88220

IN REPLY REFER TO

3162

OPERATOR: Pogo Producing Company Lease No. NM-89172
WELL NO. & NAME Patton 17 Federal # 1
LOCATION: SW 1/4 SE 1/4, Sec. 17, T. 24 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>41 bbls</u>	Amount of water produced from each formation in barrels per day.
<u>See Attached</u>	A water analysis of produced water from each zone shown at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>1 - 500 bbl tank</u>	How water is stored on the lease.
<u>Polylined</u>	How water is moved to disposal facility.
<u>Pogo Producing Company</u> <u>Pure Gold B #20 WIC</u> <u>SE/4 SE/4 Sec. 20</u> <u>T23S, R31E</u> <u>Eddy Co., NM</u>	Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

Supervisory Petroleum Engineer Technician

Endura Products Corporation

P.O. Box 3394, Midland, Texas 79702
Phone (915) 684-4233 Fax (915) 684-4277

WATER ANALYSIS

Date **9/25/2002** Endura Rep **Greg Archer**

Code **101000060**

Sampling Point/Date **Wellhead 9/24/2002**

State **New Mexico**

Company **Pogo Producing Co.**

County **Eddy**

Formation

Lease **PATTON 17 FEDERAL**

Well **#1**

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc.)	98,279	4,273
Total Hardness as Ca++	18,440	0
Calcium Ca++	16,520	826
Magnesium, Mg+	1,171	98
Barium, Ba++	0	0
Iron (Total) Fe+++*	35	2

ANIONS

Chlorides, Cl-	184,500	5,197
Sulfate, SO4-	25	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	73	1
Sulfide, S-*	0	0
Total Dissolved Solid	300,603	

OTHER PROPERTIES

pH*	6.586
Specific Gravity, 60/60 F.	1.201
Turbidity	194

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	1.6115	-1.2143	-1.5999	-29.5124
120	2.1982	-1.2272	-1.4324	-29.6381
160	3.0835	-1.2376	-1.2701	-29.8405

PERFORATIONS



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OPERATOR: Pogo Producing Company Lease No. NM-89172
WELL NO. & NAME Patton 17 Federal # 2
LOCATION: NE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 17, T. 24 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>34 bbls</u>	Amount of water produced from each formation in barrels per day.
<u>See Attached</u>	A water analysis of produced water from each zone shown at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>1 - 500 bbl tank</u>	How water is stored on the lease.
<u>Polylined</u>	How water is moved to disposal facility.
<u>Pogo Producing Company</u>	Operator's name, well name and location, by $\frac{1}{4}$, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.
<u>Pure Gold B #20 WIC</u>	
<u>SE/4 SE/4 Sec. 20</u>	
<u>T23S, R31E</u>	
<u>Eddy Co., NM</u>	

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WATER ANALYSIS

Date	9/25/2002	Endura Rep	Greg Archer	Code	101000061
Sampling Point/Date	Wellhead 9/24/2002	State	New Mexico		
Company	Pogo Producing Co.	County	Eddy		
Formation		Lease	PATTON 17 FEDERAL	Well	#2

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na ⁺ (Calc.)	68,609	2,983
Total Hardness as Ca ⁺⁺	11,320	0
Calcium Ca ⁺⁺	9,280	464
Magnesium, Mg ⁺	1,244	104
Barium, Ba ⁺⁺	0	0
Iron (Total) Fe ^{+++*}	31	2

ANIONS

Chlorides, Cl ⁻	126,000	3,549
Sulfate, SO ₄ ⁻	100	2
Carbonate, CO ₃ ⁻	0	0
Bicarbonates, HCO ₃ ⁻	98	2
Sulfide, S ^{-*}	0	0
Total Dissolved Solid	205,362	

OTHER PROPERTIES

pH*	6.864
Specific Gravity, 60/60 F.	1.134
Turbidity	71

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.7511	-1.0498	-1.3343	-29.3782
120	1.1742	-1.0632	-1.1672	-29.5559
160	1.8218	-1.0881	-1.0195	-29.7796

PERFORATIONS



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IN REPLY REFER TO

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OPERATOR: Pogo Producing Company Lease No. NM-89172
WELL NO. & NAME Patton 17 Federal # 4
LOCATION: NW 1/4 SE 1/4, Sec. 17, T. 24 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>34 bbls</u>	Amount of water produced from each formation in barrels per day.
<u>See Attached</u>	A water analysis of produced water from each zone shown at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>1 - 500 bbl tank</u>	How water is stored on the lease.
<u>Polylined</u>	How water is moved to disposal facility.
<u>Pogo Producing Company</u> <u>Pure Gold B #20 WIC</u> <u>SE/4 SE/4 Sec. 20</u> <u>T23S, R31E</u> <u>Eddy Co., NM</u>	Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

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WATER ANALYSIS

Date	9/25/2002	Endura Rep	Greg Archer	Code	101000062
Sampling Point/Date	Wellhead 9/24/2002	State	New Mexico		
Company	Pogo Producing Co.	County	Eddy		
Formation		Lease	PATTON 17 FEDERAL	Well	#4

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc.)	102,488	4,456
Total Hardness as Ca++	15,960	0
Calcium Ca++	14,320	716
Magnesium, Mg+	1,000	83
Barium, Ba++	0	0
Iron (Total) Fe+++*	33	2

ANIONS

Chlorides, Cl-	186,500	5,254
Sulfate, SO4-	50	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	98	2
Sulfide, S-*	0	0
Total Dissolved Solid	304,489	

OTHER PROPERTIES

pH*	6.614
Specific Gravity, 60/60 F.	1.197
Turbidity	241

SCALING INDICIES

TEMP, F	CA CO3	CASO4*2H2O	CA SO4	BA SO4
80	1.7031	-0.9716	-1.3579	-29.5110
120	2.2895	-0.9842	-1.1900	-29.6364
160	3.1742	-0.9941	-1.0272	-29.8386

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IN REPLY REFER TO

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OPERATOR: Pogo Producing Company Lease No. NM-89172
WELL NO. & NAME Patton 17 Federal # 6
LOCATION: SE 1/4 SW 1/4, Sec. 17, T. 24 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>10 bbls</u>	Amount of water produced from each formation in barrels per day.
<u>See Attached</u>	A water analysis of produced water from each zone shown in at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>1 - 500 bbl tank</u>	How water is stored on the lease.
<u>Polylined</u>	How water is moved to disposal facility.
<u>Pogo Producing Company</u> <u>Pure Gold B #20 WIC</u> <u>SE/4 SE/4 Sec. 20</u> <u>T23S, R31E</u> <u>Eddy Co., NM</u>	Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.

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WATER ANALYSIS

Date **9/25/2002** Endura Rep **Greg Archer**

Code **101000063**

Sampling Point/Date **Wellhead 9/24/2002**

State **New Mexico**

Company **Pogo Producing Co.**

County **Eddy**

Formation

Lease **PATTON 17 FEDERAL**

Well **#6**

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc.)	102,235	4,445
Total Hardness as Ca++	13,600	0
Calcium Ca++	11,640	582
Magnesium, Mg+	1,195	100
Barium, Ba++	0	0
Iron (Total) Fe+++*	53	3

ANIONS

Chlorides, Cl-	182,000	5,127
Sulfate, SO4-	50	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	98	2
Sulfide, S-*	0	0
Total Dissolved Solid	297,271	

OTHER PROPERTIES

pH*	6.628
Specific Gravity, 60/60 F.	1.193
Turbidity	381

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	1.5127	-1.0865	-1.4618	-29.4979
120	2.0795	-1.0998	-1.2946	-29.6287
160	2.9357	-1.1132	-1.1353	-29.8335

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OPERATOR: Pogo Producing Company Lease No. NM-89172
WELL NO. & NAME Patton 17 Federal # 7
LOCATION: SW 1/4 NE 1/4, Sec. 17, T. 24 S., R. 31 E., Eddy County, N.M.

The check list below indicates the information needed before your Waste or Salt Water Disposal method can be approved:

<u>Delaware</u>	Name(s) of formation(s) producing water on the lease.
<u>15 bbls</u>	Amount of water produced from each formation in barrels per day.
<u>See Attached</u>	A water analysis of produced water from each zone shown in at least the total dissolved solids, ph, and the concentrations of chlorides and sulfates.
<u>1 - 500 bbl tank</u>	How water is stored on the lease.
<u>Polylined</u>	How water is moved to disposal facility.
<u>Pogo Producing Company</u>	Operator's name, well name and location, by 1/4, section, township and range, of the disposal facility. If the disposal facility is an approved disposal system, the operator's name and the name of the disposal system should suffice.
<u>Pure Gold B #20 WIC</u>	
<u>SE/4 SE/4 Sec. 20</u>	
<u>T23S, R31E</u>	
<u>Eddy Co., NM</u>	

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WATER ANALYSIS

Date	9/25/2002	Endura Rep	Greg Archer	Code	101000064
Sampling Point/Date	Wellhead 9/24/2002	State	New Mexico		
Company	Pogo Producing Co.	County	Eddy		
Formation		Lease	PATTON 17 FEDERAL	Well	#7

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc.)	101,200	4,400
Total Hardness as Ca++	14,520	0
Calcium Ca++	12,240	612
Magnesium, Mg+	1,390	116
Barium, Ba++	0	0
Iron (Total) Fe+++*	44	2

ANIONS

Chlorides, Cl-	182,000	5,127
Sulfate, SO4-	25	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	98	2
Sulfide, S-*	0	0
Total Dissolved Solid	296,997	

OTHER PROPERTIES

pH*	6.521
Specific Gravity, 60/60 F.	1.194
Turbidity	196

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>CASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	1.4412	-1.3640	-1.7403	-29.4998
120	2.0103	-1.3776	-1.5735	-29.6301
160	2.8699	-1.3910	-1.4142	-29.8346

PERFORATIONS