

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-16
May 27, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Pogo Producing Company- 300 N Marienfeld Suite 600 Midland, TX 79701		² OGRID Number 233194
³ Property Code	⁴ Property Name Golden Bear	⁵ API Number 30 - 045 - 33340
⁹ Proposed Pool 1 Basin Fruitland Coal		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	29-N	13- W		1240'	South	870'	East	San Juan

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 5415'(geo)
¹⁶ Multiple N	¹⁷ Proposed Depth +/- 1300'	¹⁸ Formation Basin Fruitland Coal	¹⁹ Contractor Availability	²⁰ Spud Date November 1, 2005
Depth to Groundwater 34'		Distance from nearest fresh water well +/- 660'		Distance from nearest surface water +/- 1200'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 20 mils thick Clay <input type="checkbox"/> Pit Volume: 160 bbls Drilling Method: Rotary Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

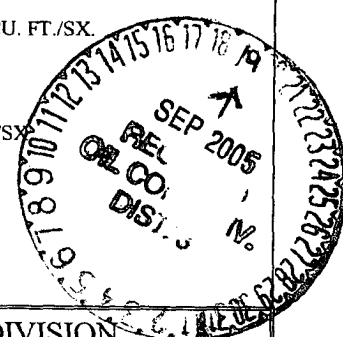
²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
8-3/4"	7"	20#	650'	166	Surface
6-1/4"	4-1/2"	10.5#	1300'	150	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

SURFACE TO BE DRILLED w/ FRESH WATER. SURF CSG CMT BASED ON 100% EXCESS OVER GAUGE HOLE. CMT 1.18 CU. FT./SX.
INSTALL RENGEM 2000# 750# TEST ANNULAR BOP
7-7/8" HOLE TO BE DRILLED w/ FRESH WATER MUD & GEL TO BE MIXED TO MAINTAIN 9.1 PPG & 70 VIS.
OPEN HOLE LOGS WILL BE RUN TO EVALUATE WELL. IES-GR-SP-CAL-COMP DENSITY- COMP NEUTRON
LONG STRING CMT VOL BASED ON 1250' LEAD SLURRY YIELD 2.24 CU.FT/SX AND 700' TAIL SLURRY YIELD 1.18 CU.FT/SX
FINAL CMT VOLUME TO BE CALCULATED USING 30% EXCESS OVER CALIPER

Tops: Kirtland @ 300'; Fruitland @ 960'; Pictured Cliffs 1290' ; Lewis Shale 1450'



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOC guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed name: Brad Salzman

Title: Drilling Consultant

E-mail Address: brads@titusconsulting.net

Date: 8-24-05

Phone: 505-486-1701

OIL CONSERVATION DIVISION

Approved by:

Title: DEPUTY OIL & GAS INSPECTOR, DIST. #1

Approval Date: SEP 19 2005

Expiration Date:

Conditions of Approval Attached ☐ Surface CSG to be set

50' below the top of Kirtland FM to protect
the Ojo Alamo FM aquifer.
2 vulnerable areas

Exhibit A

State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

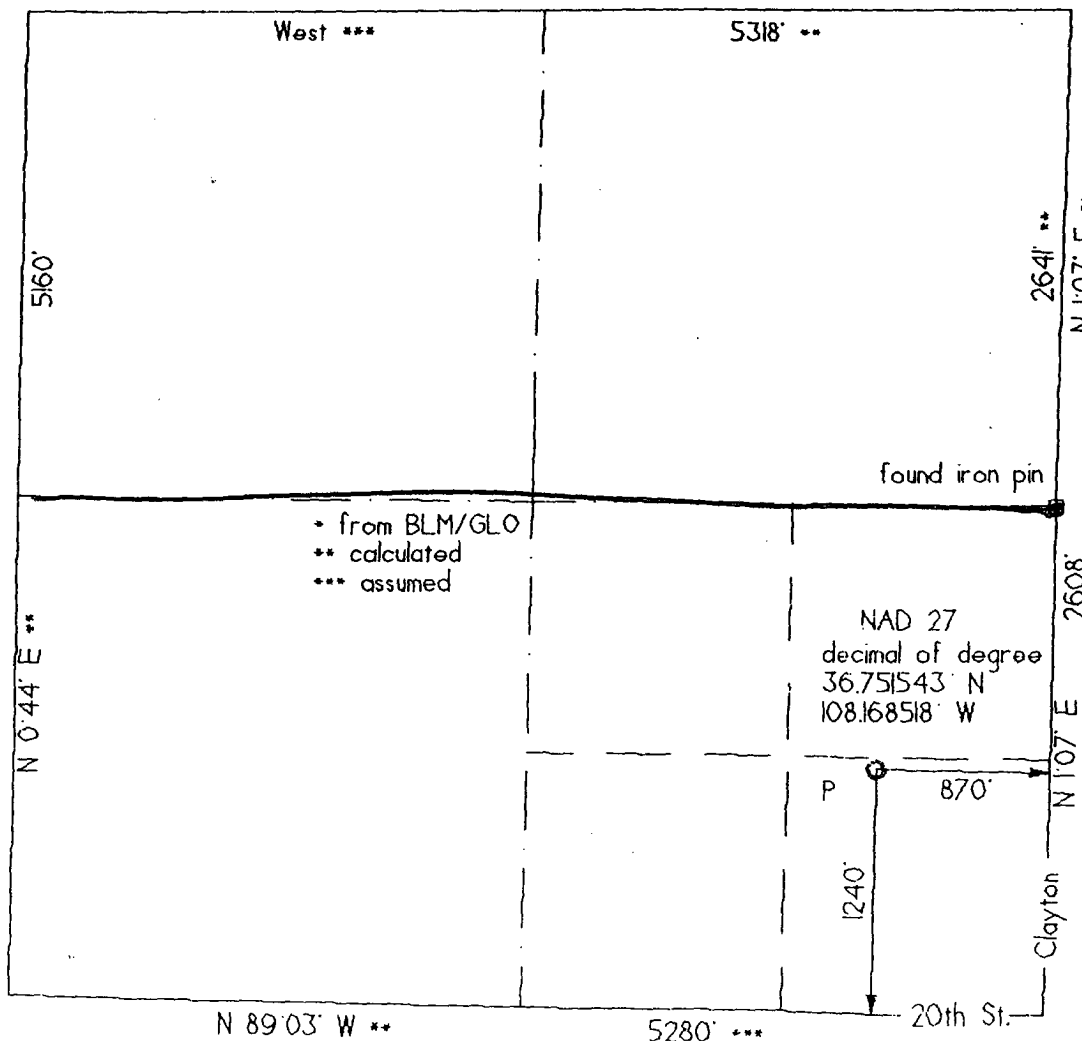
APA Number		Pool Code 71624	Pool Name Basin Fruitland coal
Property Code	Property Name Golden Bear		Well Number 7
GRID No.	Operator Name POGO PRODUCING CO.		Elevation 5410'

Surface Location									
UL or Lot P	Sec. 2	Twp. 29 N.	Rge. 13 W.	Lot Id.	Feet from	North/South	Feet from	East/West	County
					1240	SOUTH	870'	EAST	SAN JUAN

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Id.	Feet from	North/South	Feet from	East/West	County

Dedication 320	Joint ?	Consolidation	Order No.
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NO ALLOWABLE WILL 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	<i>B.W. Salzman</i>
Printed Name	B.W. SALZMAN
Title	AGENT
Date	8-24-05
SURVEYOR CERTIFICATION	
I hereby certify that the well location 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	05/05/05
Signature and Seal of Professional Surveyor	

Golden Bear # 7
well pad and section



0' 40'
Scale 1" = 40'



cut



fill

□ set stake & pin flag
○ person hole

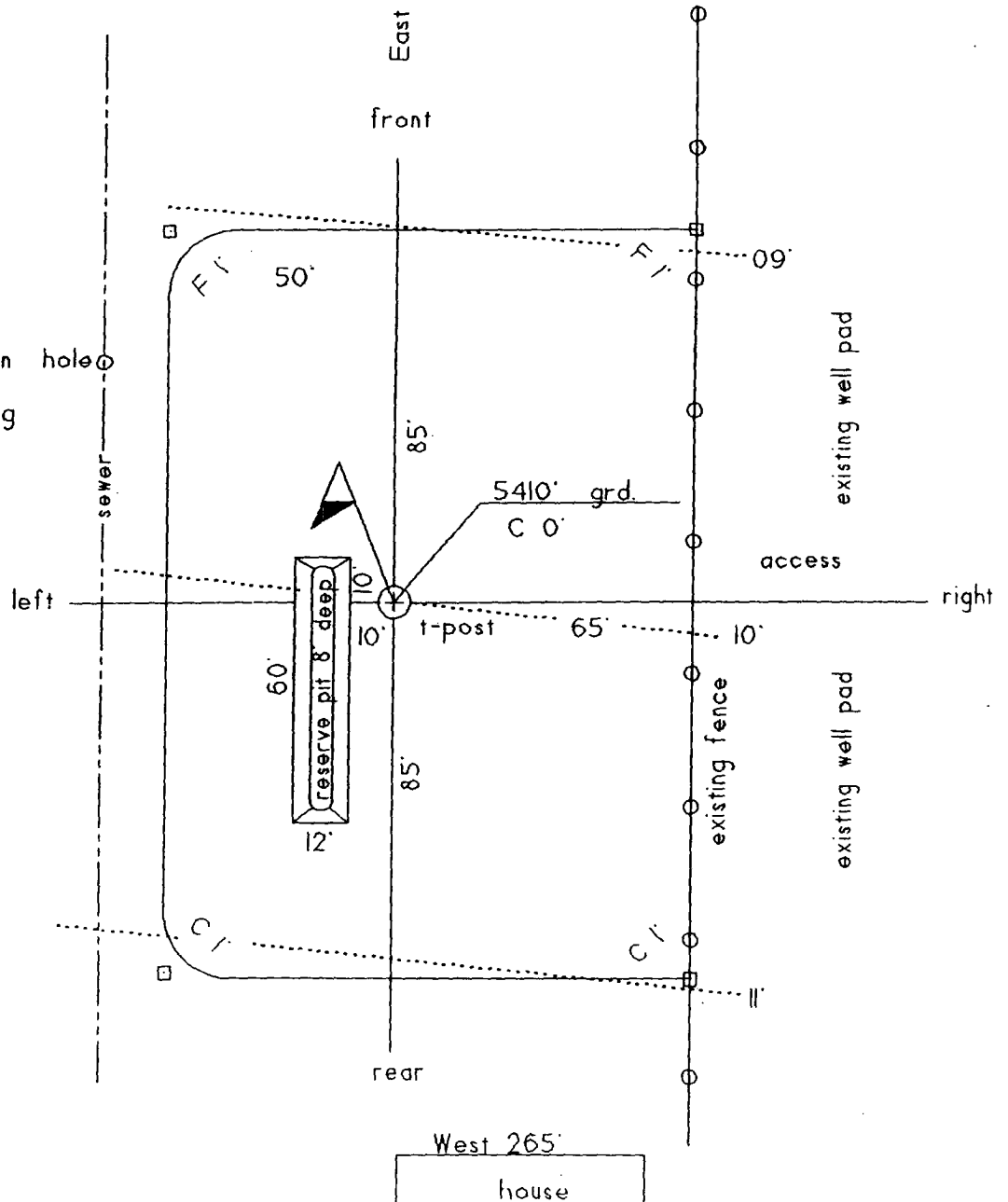


Exhibit C
TEN-POINT PROGRAM/ OPERATIONS PLAN
POGO PRODUCING COMPANY

Well name: Golden Bear #7
Location: 1240' FSL, 870' FEL, Section 2, T-29-N, R-13-W, NMPM
San Juan County, NM
Formation: Basin Fruitland Coal

1. The geological surface formation is: Quaternary alluvium
2. The tops of important geological markers: (based on existing log information)

Top Kirtland	300'
Top Fruitland	960'
Top Pictured Cliffs	1290'
Top Lewis Shale	1450'

3. Estimated depths of anticipated water, oil, gas, or minerals:

<u>Substance</u>	<u>Formation</u>	<u>Anticipated Depth</u>
Gas	Fruitland Coal	1200'

4. The Casing Program:

<u>Depth</u>	<u>Hole Size</u>	<u>Casing O.D.</u>	<u>Wt.</u>	<u>Grade</u>	<u>Type</u>	<u>New/Used</u>
0-650'	8 3/4"	7"	20#	J-55	ST&C	New
0-1650'	6 1/4"	4-1/2"	10.5#	J-55	ST&C	New

Proposed Cement Program: To effectively isolate and seal off all water, oil, gas and coal bearing strata encountered by the utilization of spacer and centralizers at the base of the Ojo Alamo formation as specified by NTL-FRA 90-1 III.B and API standards; and by using cement volumes as follows: (Exact volumes to be determined from logs):

Surface: 196 Cu Ft(166Sx) Class B w/ 0.25# Flocele/ Sx w/5#/Sk Gilsonite plus 2% CaCl (100% Excess).

Production: 85 Cubic Feet (42 Sacks Lite Standard Cement w/ 2% Metasilicate + 0.25 pps Flocele mixed to 12.4 ppg followed by 162 Cubic Feet (134 Sacks) Standard w/ 0.6% Halad-322 mixed to 15.6 ppg w/ caliper plus 25% excess in both slurries. Grand Totals: 247 Cubic Feet (176 Sacks).

5. Operators Minimum Specifications for pressure control:

Expected bottom hole pressure 300 psi or less.

Exhibit E is a schematic of the blowout preventer used by a local contractor for other wells in the area. The BOP to be used is an annular BOP with screwed connections with high-pressure inlet and outlet hoses, all tested to 750 psi minimum.

Exhibit C
TEN-POINT PROGRAM
POGO PRODUCING COMPANY

Well name: Golden Bear #7
Location: 1240' FSL, 870' FEL, Section 2, T-29-N, R-13-W, NMPM
San Juan County, NM
Formation: Basin Fruitland Coal

6. The type and characteristic of the proposed circulating muds:

Surface Casing: Spud flocculating bentonite with lime.

Production Casing: Low solids non- disbursing system.

<u>Interval</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Ph</u>	<u>Additives</u>
0-650'	9.0	45	----	9	Gel, Lime
650'-TD	8.6 - 9.2	30-50	<15cc	9	Additives as needed to maintain viscosity

7. Auxiliary Equipment to be used is as follows:

- a. Float valve above bit.
- b. Monitoring of mud system will be visual.
- c. A safety valve and subs to fit all drill strings will be used.

8. Testing, logging and coring will be as follows:

- a. Cores: None
- b. Drill stem tests: none anticipated.
- c. Logs will include: High Resolution Induction w/ Gamma Ray, SP, Caliper, Microlog, Spectral Density and Dual Spaced Neutron Microlog; all from Total depth to the surface casing shoe.

9. Anticipated Abnormal Pressures and temperatures:

No abnormal pressures, temperatures, or Hydrogen Sulfide gases are anticipated during the completion of this well.

10. Anticipated starting date and duration of operations:

The anticipated starting date is November, 2005. The drilling operations should be completed within 15 days after rig-up date. Completion will be done as equipment availability and weather permit.

Date: B-24-05 Drilling Engineer: B. H. Salzman

BLOW OUT PREVENTER (B.O.P.)

