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

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

Form C-101
May 27, 2004

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	[2] OGRID Number
Pogo Producing Company 300 North Marienfeld, Suite 600 Midland, TX 79701	233194
	[3] API Number 30 – 045- 34136

[5] Property Code	[5] Property Name	[6] Well No.
301366	La Plata #20	2

[9] Proposed Pool 1	[10] Proposed Pool 2
Basin Fruitland Coal 71629	

[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
A	20	31 N	13 W		908'	North	891'	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	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
N	G	Rotary	S	5806'
[16] Multiple	[17] Proposed Depth	[18] Formation	[19] Contractor	[20] Spud Date
N	+/- 2000'	Basin Fruitland Coal	Availability	ASAP

<50' to groundwater	Distance from nearest fresh water well > 1000'	Distance from nearest surface water ≤1000'

Pit: Liner: Synthetic ☒ 20 mils thick Clay ☐ Pit Volume: 160 bbls Drilling Method:
Closed-Loop System ☐

[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#	160'	150sx	Surface
6- 1/4"	4- 1/2"	10.5#	2000'	200sx	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.

Pogo plans to drill a vertical well with a 8-3/4" surface hole to approx. 160' with spud mud and set and cement to surface 7", 20# casing with 150sx (175 cu.ft.) of type 5 with additives. A double ram, 2000 pound psi rated BOP will be installed and pressure tested to 1000 psi. A 6-1/4" hole will be drilled using clear water, natural mud, and water loss control additives to approximately 1665'. New 4-1/2" 10.5# casing will be set and cemented to surface. with type 5 with additives. Cement volumes will be determined based on open hole logs.
KB elevation: approx. +5806'
Surface formation: Nacamiento
Kirtland Formation: 822' Fruitland Formation: 1307' Basal Fruitland Coal 1750' Pictured Cliffs Formation: 1802' TD 2000'

[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 NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Printed name: Bradley Salzman
Title: Drilling Engineer
E-mail Address: brads@titusconsulting.net
Date: 12-5-06 Phone: 505-486-1701

OIL CONSERVATION DIVISION

Approved by:
Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3
Approval Date: JAN 08 2007 Expiration Date: JAN 08 2008
Conditions of Approval Attached ☐

J/P

1/8/07 B

RCVD JAN5'07
OIL CONS. DIV
DIST. 3

State of New Mexico
Energy. Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe. NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number	Pool Code	Pool Name
30-045-34136	71629	Basin Fruitland Coal

Property Code	Property Name	Well Number
301366	LA PLATA 20	2

OGRID No.	Operator Name	Elevation
233194	POGO PRODUCING (SAN JUAN) CO.	5806'

Surface Location

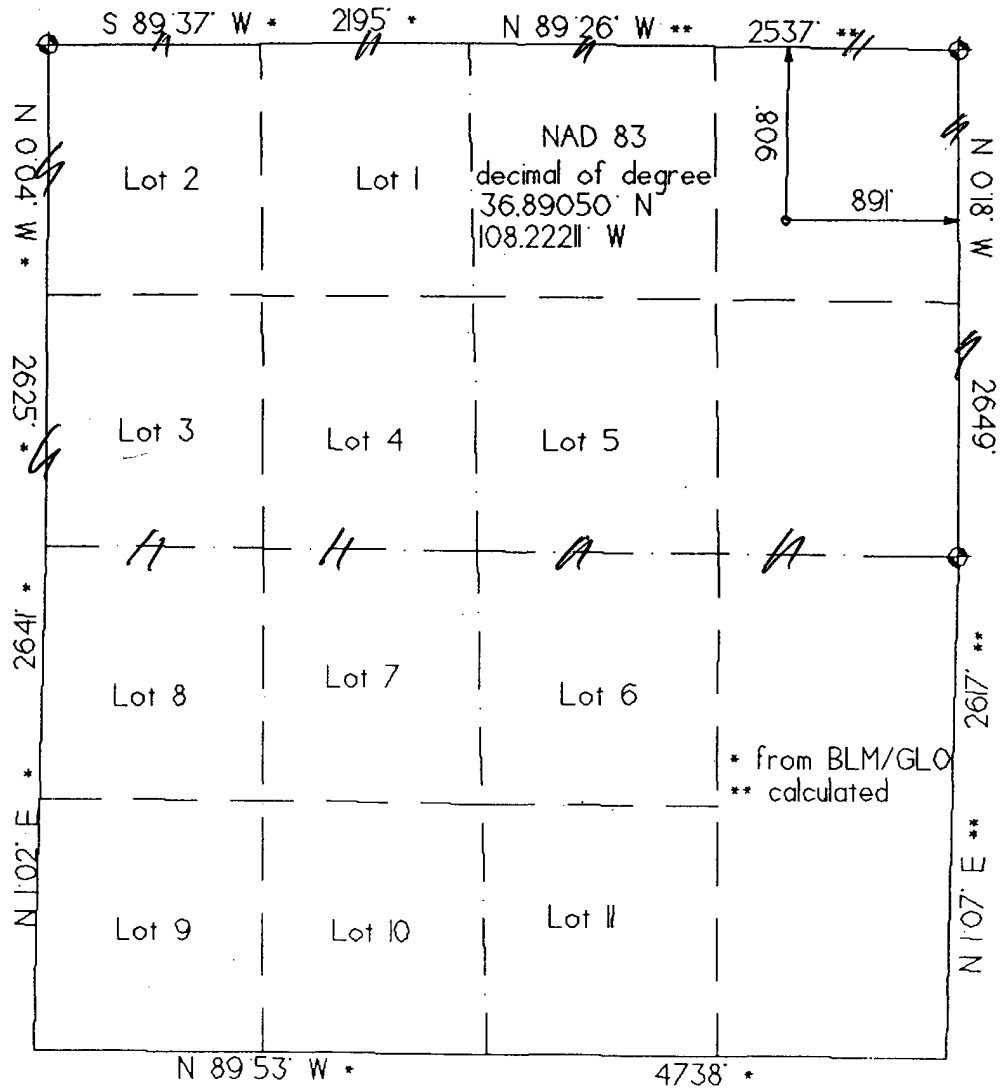
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from>	North/South	Feet from>	East/West	County
A	20	31 N.	13 W.		908'	NORTH	891'	EAST	SAN JUAN

Bottom Hole Location If Different From Surface

UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from>	North/South	Feet from>	East/West	County

Dedication	Joint ?	Consolidation	Order No.
N/2 ~~320~~ 294.68			

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: Rebecca Heath

Printed Name: Rebecca L. Heath

Title: Agent

Date: 1-8-07

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.

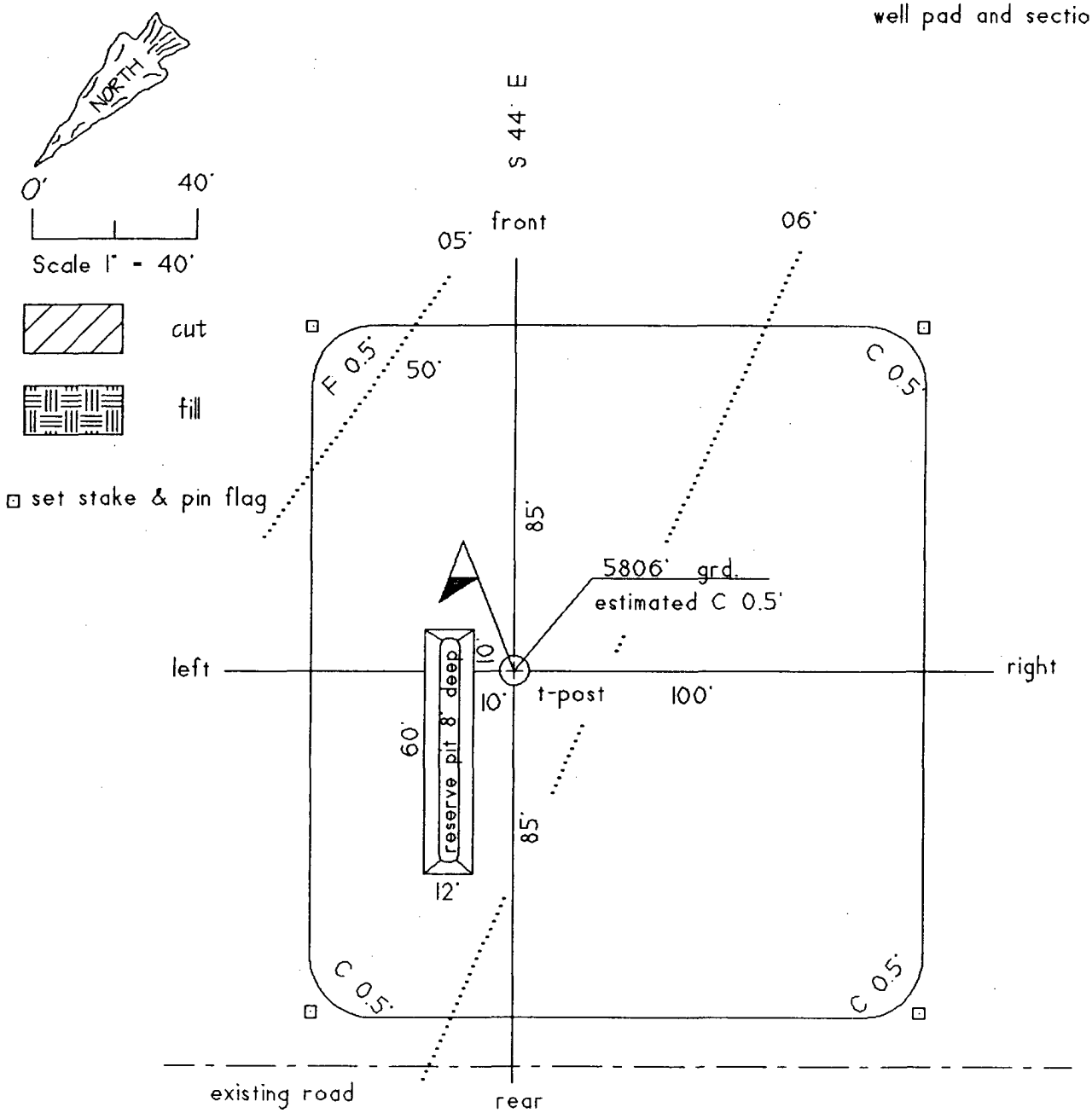
Date of Survey: 10 17 '06

Signature and Seal of Professional Surveyor

GERALD G. HUDDLESTON
NEW MEXICO
6844
REGISTERED LAND SURVEYOR

La Plata 20 # 2

well pad and section



section

TEN-POINT PROGRAM/ OPERATIONS PLAN
POGO PRODUCING COMPANY

Well name: La Plata #20-2
Location: 908' FNL & 891' FEL, A-Sec. 20, T-30-N, R-13-W, NMPM
San Juan County, NM
Formation: Basin Fruitland Coal

1. **The geological surface formation is:** Nacamiento

2. **The tops of important geological markers: (based on existing log information)**

Nacamiento	Surface Formation
Kirtland Shale	822'
Fruitland FM	1307'
Basal Fruitland Coal	1750'
Pictured Cliffs	1802'
TD	2000'

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

Substance	Formation	Anticipated Depth
Gas	Fruitland Coal	2000 +/-

4. **The Casing Program:**

Depth	Hole Size	Casing O.D.	Wt.	Grade	Type	New/Used
0-160'	8 3/4"	7"	20#	J-55	ST&C	New
0-2000'	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, centralizers and swirling 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: 100sx (120 cuft) Type 5 w/0.25 pps celloflake w/ 2% CaCl @ 15.6 ppg x 1.18 cuft/sx (100% excess). Circ to Surface

Production: 90 sx (185 cu.ft) Type 5 w/ 2% Sodium Metasilicate & 0.25 pps celloflake @ 12.4 ppg and 2.03 cu.ft /sx, followed by 70 sx (85 cu.ft) Type 5 w/ 0.25 pps celloflake @ 15.6 ppg & 1.18 cu.ft /sx. Circ to Surface

5. **Operators Minimum Specifications for pressure control:**

Expected bottom hole pressure 250 psi or less.

Attached is a schematic of the blowout preventer commonly in Fruitland Coal development. The BOP will be a double ram type with flanged connections. The BOP will be tested to a minimum of 750 psi.

TEN-POINT PROGRAM
POGO PRODUCING COMPANY

Well name: La Plata #20-2
Location: 908' FNL & 891' FEL, A-Sec. 20, T-30-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.

Interval	Mud Weight	Viscosity	Fluid Loss	Ph	Additives
0-160'	9.0	45	-----	9	Gel, Lime
160'-TD	8.6 – 9.2	30-50	<15cc	9	Chemicals needed

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 January 1, 2007. The drilling operations should be completed within 10 days after rig-up date. Completion will be done as equipment availability and weather permit.

Date: 12-5-06 Drilling Engineer: Bradley K Salyman