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

JAN 2006 RECEIVED OIL CONS. DIV. DIST. 3

DEC 2005 RECEIVED OIL CONS. DIV. DIST. 3

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 N Marienfeld Suite 600 Midland, TX 79701	17891 ✓ [3] API Number 30-045-33473

[5] Property Code	[5] Property Name	[6] Well No.
300766 ✓	Federal Pioneer	#1E

[9] Proposed Pool 1	[10] Proposed Pool 2
Dakota	

[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
J	29	30-N	12-W	J	2075	South	1940	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	P ✓	5502
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	6425'	Dakota	Availability	January 1, 2006

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water
27 feet >201'	660 feet +/-	~~150 feet +/-~~ >100'

Pit: ~~Liner: Synthetic~~ ☒ 20 mils thick Clay ☐ Pit Volume: 160 bbls Drilling Method: Rotary

Closed-Loop System ☒ Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4"	8-5/8"	24.0#	350'	245sx(289 cu. ft.)	Surface
7-7/8"	4-1/2"	10.5#	6300'	600sx & 100sx	Surface
				2nd stg 665sx	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.

A 12-1/4" surface hole will be drilled to approx. 350' with spud mud. 8-5/8", 24# casing will be set and cemented to surface with 245 sx(289 cu.ft.) of Cl "B" with 3% $CaCl^2$ and 1/4#/sk CF. A double ram 2000 psi rated BOP will be installed and pressure tested to 1500 psi. A 7-7/8" hole will be drilled using fresh water- polymer mud system to approx. 6300'. 4-1/2", 10.5# casing will be set and cemented to surface in two stages with the DV tool at 3100". The first stage will be 600sx (1082 cu.ft.) of Cl "B" 65/35 poz with 6% gel, 1% $CaCl^2$, and 1/4#/sk CF and 4% phenoseal and 100sx (146 cu.ft.) Cl "B" 50/50 poz with 0.15% dispersant, 1% $CaCl^2$, and 1/4#/sk CF and 4% phenoseal and 100sx (146 cu.ft.) Cl "B" 50/50 poz with 0.15% dispersant, 1% $CaCL^2$, and 1/4#/sk CF. The 2nd stage will be 665sx (1109 cu.ft.) of Cl "B" 65/35 poz with 6% gel, 1% $CaCl^2$, and 1/4#/sk CF. Cement volumes will be adjusted to be 10% greater than the open hole log volume. Open hole DIL and FDC/CNL/GR/SP logs will be run.

Tops: Kirtland @ 382'; Fruitland @ 1262'; Pictured Cliffs 1612'; Lewis Shale 1802'; Mancos Shale 4315'; Dakota 6425'

[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: Brad Salzman

Title: Drilling Consultant

E-mail Address: brads@titusconsulting.net

Date: 11-16-05 Phone: 505-486-1701

OIL CONSERVATION DIVISION

Approved by:

Title: DEPUTY OIL & GAS INSPECTOR, DIST. #3

Approval Date: JAN 04 2006 Expiration Date: JAN 04 2007

Conditions of Approval Attached ☒ No subgrade pits or Tanks

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

API Number	Pool Code	Pool Name
30-045-33473	71599	Basin Dakota

Property Code	Property Name	Well Number
300766	FEDERAL PIONEER	1E

OGRID No.	Operator Name	Elevation
19891	POGO PRODUCING CO.	5502'

Surface Location

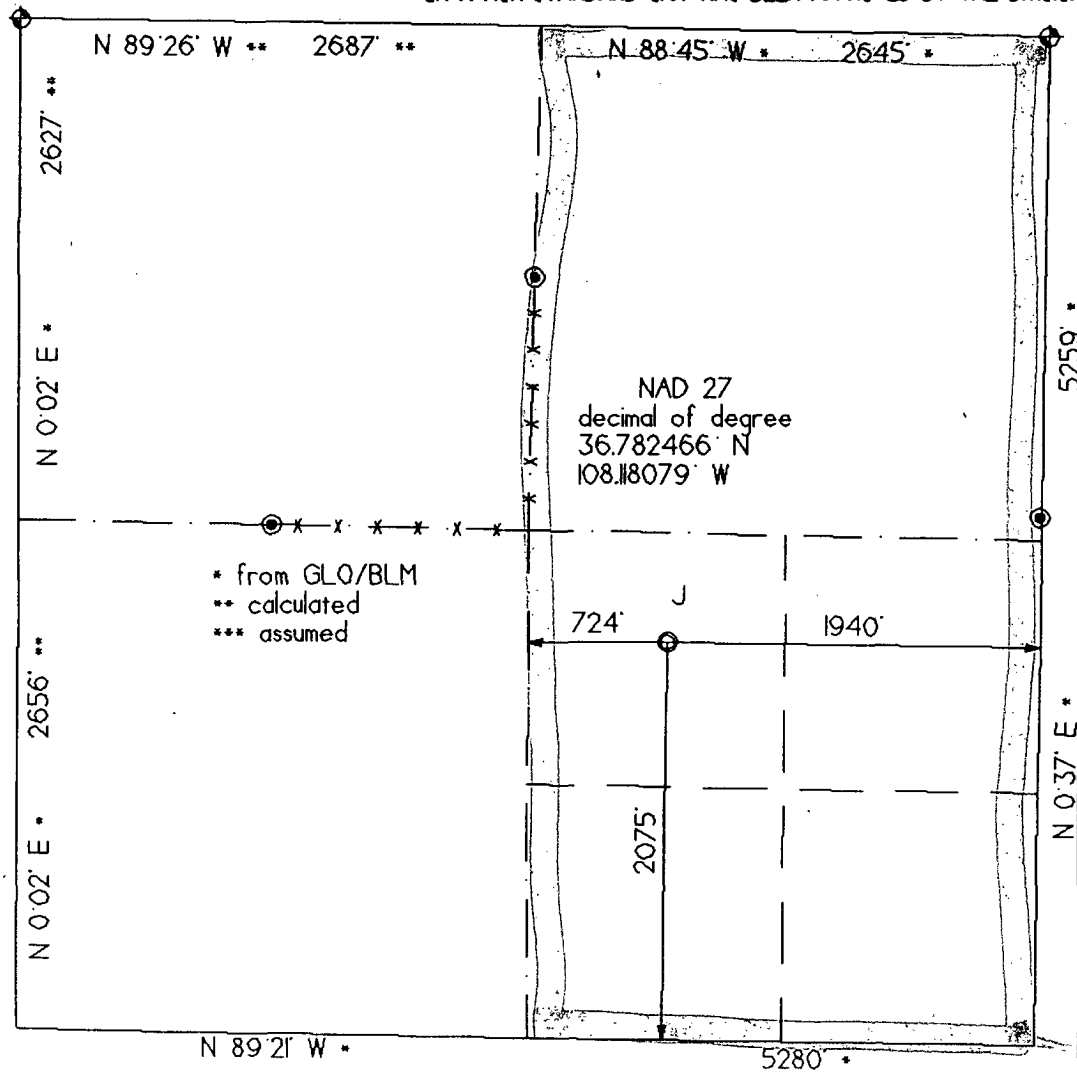
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from>	North/South	Feet from>	East/West	County
J	29	30 N.	12 W.		2075'	SOUTH	1940'	EAST	SAN JUAN

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.
E2			

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: B.W. Salzman

Printed Name: B.W. SALZMAN

Title: CONSULTANT

Date: 11-16-05

SURVEYOR CERTIFICATION

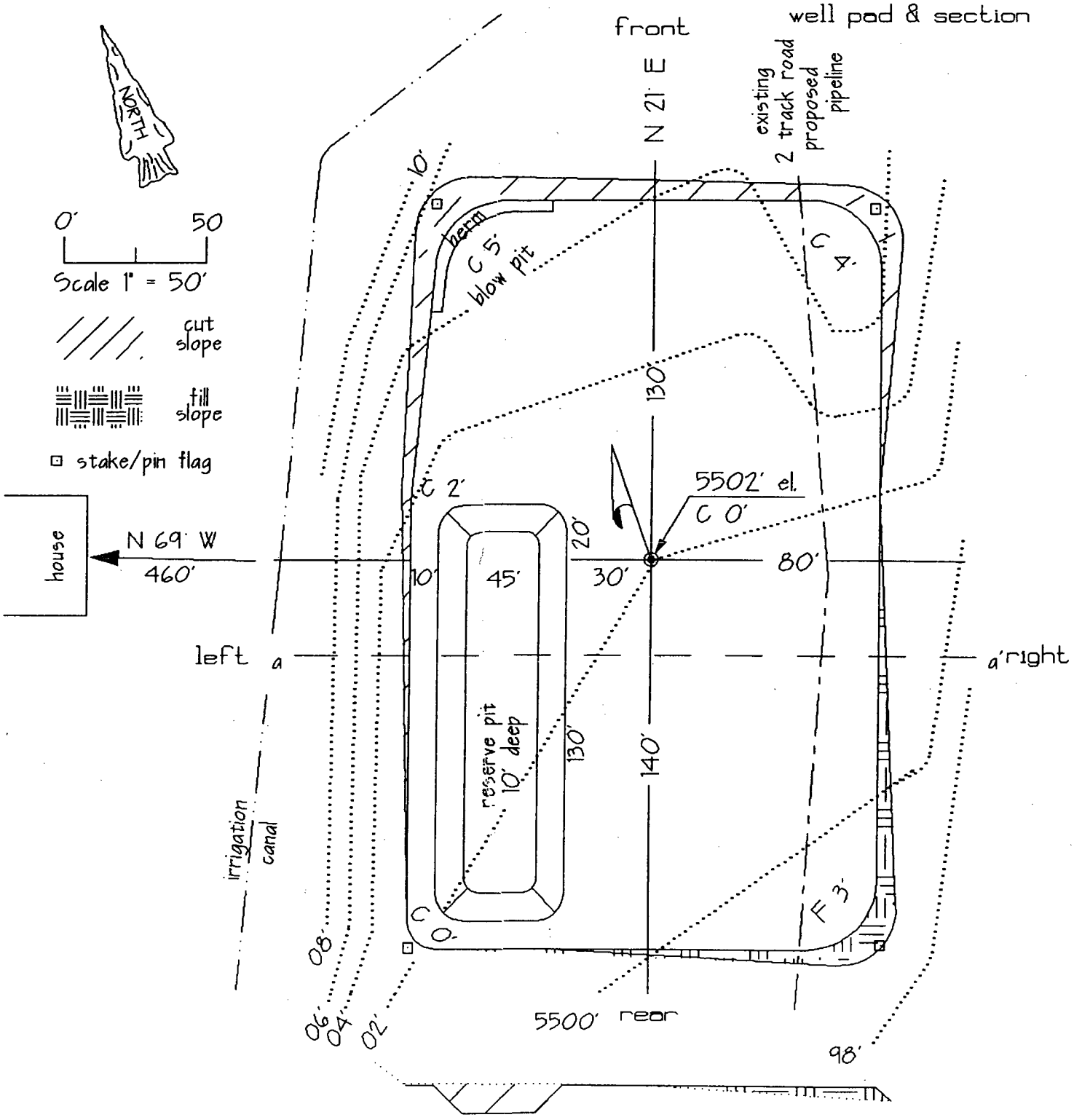
I hereby certify that the well location on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 06/10/05

Signature and Seal of Professional Surveyor:

GERALD O. HUDDLESTON
NEW MEXICO
6844
REGISTERED LAND SURVEYOR

Federal Pioneer 1 E
well pad & section



a — Cross section — a'

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

Well name: Federal Pioneer #1E
Location: 2075' FSL & 1940' FEL Sec. 29, T-30-N, R-12-W, NMPM
San Juan County, NM
Formation: Dakota

1. The geological surface formation is: Fruitland Coal and Pictured Cliffs

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

Ojo Alamo	Surface Formation
Top Kirtland	382'
Top Fruitland	1262'
Top Pictured Cliffs	1612'
Top Lewis Shale	1802'
Top Mesa Verde	3190'
Top Dakota	6010'

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

Substance	Formation	Anticipated Depth
Gas	Dakota	6425'

4. The Casing Program:

Depth	Hole Size	Casing O.D.	Wt.	Grade	Type	New/Used
0-350'	12 1/4 "	8 5/8"	24#	J-55	ST&C	New
350'- TD	7 7/8"	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: 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:

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 2000 psi minimum.

Exhibit C
TEN-POINT PROGRAM
POGO PRODUCING COMPANY

Well name: Federal Pioneer #1E
Location: 2075' FSL & 1940' FEL Sec. 29, T-30-N, R-12-W, NMPM
San Juan County, NM
Formation: Dakota

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
0-650'	9.0	45	-----	9	Gel, Lime
650'-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; 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, 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: 11-16-05 Drilling Engineer: B. W. Talbman

BLOW OUT PREVENTER (B.O.P.)