	, f		and the second s
Submit 3 Copies To Appropriate District	State of New Mexico		Form C-103
Office District I	Energy, Minerals and Natural Resou	rces	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II		WELL API 30-045-32	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION DIVISIONI DIVISION DIVISION DIVISION DIVISIONI DIVISION	JIV /	Type of Lease
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	STA	TE 🗌 FEE 🖂
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87505	i	& Gas Lease No.
87505	E 6 7 6 0	FEE	
	ICES AND REPORTS ON WELLS / OSS SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO	7. Lease N	ame or Unit Agreement Name
	CATION FOR PERMIT" (FORM C-101) FOR SUCH	ALAMO	<i>343</i> 33
1. Type of Well: Oil Well	Gas Well 🛛 Other 🖂 🔾 2005	8. Well Nu	mber #16
2. Name of Operator		9. OGRID	Number 17352
PATINA SAN JUAN, INC.	- E COLONIA	59 10 Parl no	173252
3. Address of Operator 5802 US HIGHWAY 64, FARMII	NGTON, NM 87401	CA -37	me or Wildcat ID COAL/BASIN DAKOTA
4. Well Location	25.55		D CONDIDITION DINION
Unit Letter P	660 feet from the SOUTH line	and 780 feet from	n the EAST line
Section 22		SW NMPM	SAN JUAN County
	11. Elevation (Show whether DR, RKB, RT,	GR, etc.)	
Pit or Below-grade Tank Application ⊠ o	5593'GR		
Pit type_reserveDepth to Groundw		er well >1000' Distance i	rom nearest surface water_>1000'
Pit Liner Thickness: 12 mi			inforced polyethylene plastic_
	Appropriate Box to Indicate Nature of I		
		•	
NOTICE OF IN		SUBSEQUENT	
PERFORM REMEDIAL WORK TEMPORARILY ABANDON		AL WORK NCE DRILLING OPNS	☐ ALTERING CASING ☐ ☐ PANDA ☐
PULL OR ALTER CASING	<u> </u>	CEMENT JOB	. PANDA L
			_
OTHER: CHANGE WELL	NAME OTHER: eleted operations. (Clearly state all pertinent de	tails and give nertine	at dates, including estimated date
	ork). SEE RULE 1103. For Multiple Complet		
or recompletion.	•		
DATINA SAN IIIAN INC PROPO	SES TO CHANGE THE WELL NAME ON T	HE APPROVED WE	I DEDMIT
FROM: COMPASS 22-#16	SES TO CHANGE THE WESE WANTE ON T	TIE TH'T ROVED WE	DD I ERWIT
TO: ALAMO 22 #16			
AND ADD THE FRUITI AND CO	AL FORMATION TO THE COMPLETION O	RIFCTIVE	
AND ADD THE I KOTTEAND CO.	TET ORIGINATION TO THE COMPLETION O	DJECTIVE.	
THE BASIN DAKOTA AND FRUI	TLAND COAL FORMATIONS WILL BE SE	ELECTIVELY PERFO	RATED AND COMPLETED.
THE WELL WILL BE CONNECTE	ED TO THE E NTERPRISE G ATHERING SY	STFM	
THE WELD WILL BE COMMENT	Williams Field Ser		
	0 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	y-4	
DOME TO ALBERT	Chamain Startes to Ala	mod27/0	
	a Change in States to Ala		
I hereby certify that the information	above is true and complete to the best of my ki	nowledge and belief. I	further certify that any pit or below-
grade tank has been/will be constructed or	closed according to NMOCD guidelines ⊠, a general p	permit 🔲 or an (attached)	alternative OCD-approved plan .
SIGNATURE / WW.	TITLE Regulatory/F	Engineering Technician	DATE02/22/2004
Type or print name	£-mail address:		Telephone No.
For State Use Only	SEPUTY ON	& gas inspector, dis	MAR - 8 2005
APPROVED BY:		s ovo imarector dis	T. DATE
Conditions of Approval (if any):	7/1		

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO 80x 2088, Santa Fe. NM 87504-2088

API Number

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Pool Code

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

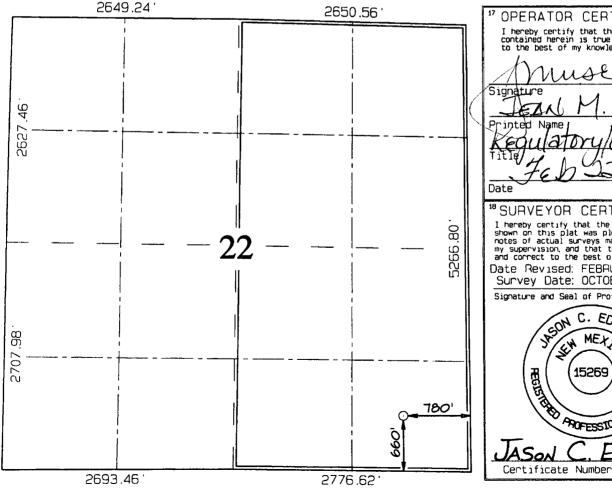
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

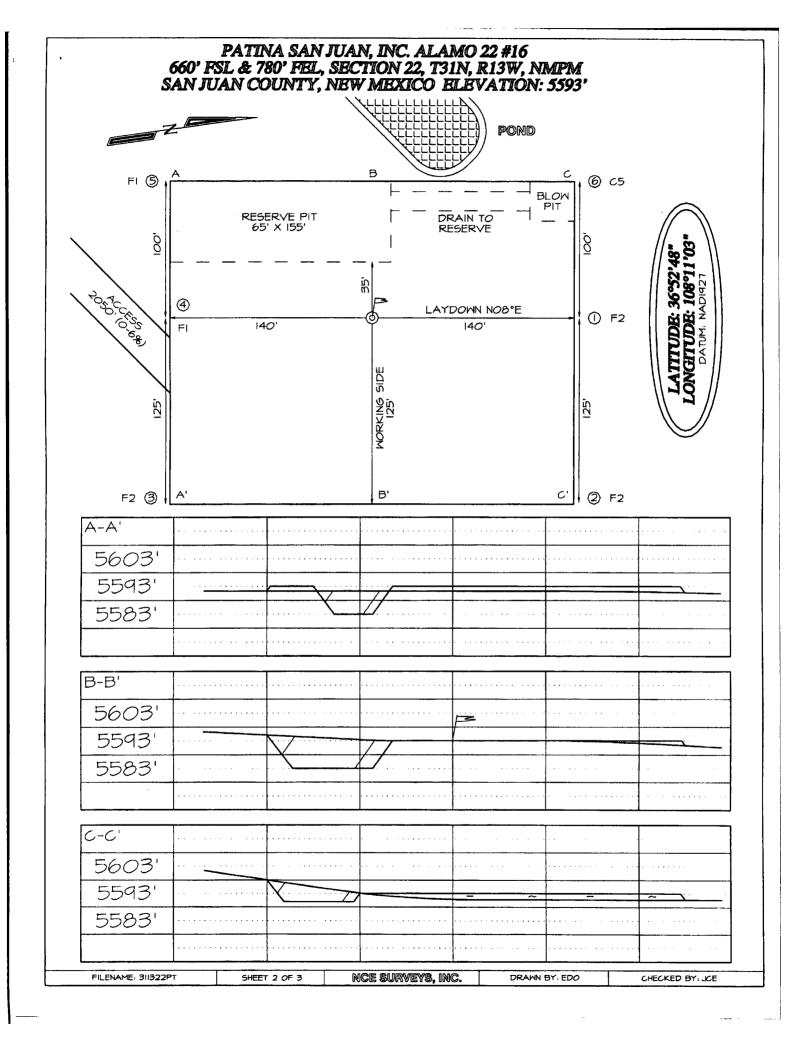
			715	599 / 7	1629	BASIN DAKO	TA / BASIN	N FRUITLAND) COAL
*Property	Code		Property Name 6Well Number ALAMO 22 16						
'0GRID 1			*Operator Name *Elevation PATINA SAN JUAN, INC. 5593						
l					¹⁰ Surface	Location		·····	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	22	31N	13W		660	SOUTH	780	EAST	SAN JUAN
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	12 Dedicated Acres 320.0 Acres - (E/2)				¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Onder No.		

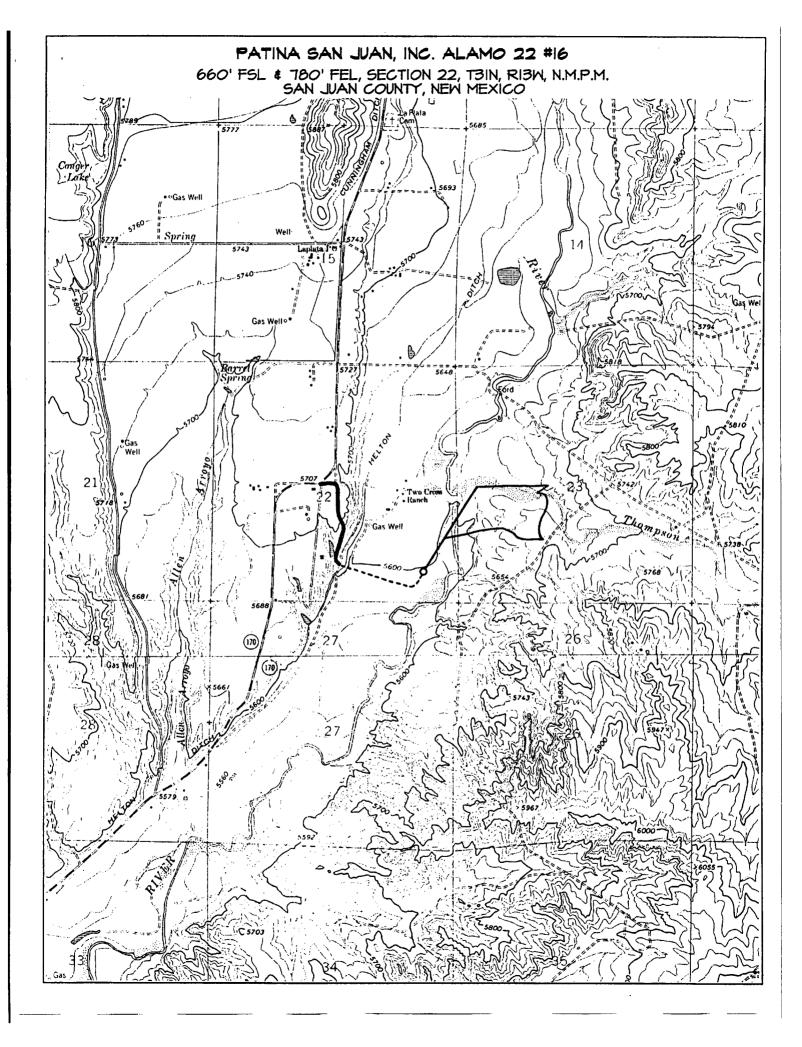
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown 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 Revised: FEBRUARY 16, 2005 Survey Date: OCTOBER 22, 2004 Signature and Seal of Professional Surveyor SON C. EDWARDS MEXICO 15269 \$ AROFESSION! -DWARDS

15269





Alamo #22-16 General Drilling Plan Patina San Juan, Inc. San Juan County, New Mexico

1. LOCATION:

SESE of Section 22, T31N, R13W San Juan, New Mexico

Field: Fruitland Coal & Basin Dakota

Surface: Fee Minerals: Fee

2. SURFACE FORMATION, ESTIMATED TOPS AND WATER, OIL, GAS OR MINERAL BEARING FORMATIONS (TVD):

Surface formation - Nacimiento

<u>Formation</u>	Estimated Formation Top (Ft)
Ojo Alamo	225
Fruitland**	1179.
Pictured Cliffs**	1868
Cliff House**	3370
Menefee**	3579
Point Lookout**	4240
Gallup	5526
Greenhorn	6260
Graneros	6320
Dakota ***	6372
TD	6800

Legend:

- * Freshwater bearing formation
- ** Possible hydrocarbon bearing formation *** Probable hydrocarbon bearing formation
- # Possible H2S bearing formation

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected.

3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to its rated working pressure or 70-percent of the internal yield of the surface casing, but not to exceed 1,000 psi. See attachments for BOP and choke manifold diagrams.

Production Hole BOP Requirements and Test Plan

```
11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
```

Test as follows:

a) Pipe rams: 1,000 psi (High) 250 psi (low) b) Choke manifold and lines: 1,000 psi (High) 250 psi (low)

All ram type preventers and related equipment will be hydraulically tested at nipple-up. They will also be retested in either of the following events:

- A pressure seal is broken.
- 30 days have elapsed since the last successful test of the equipment.

Furthermore, BOP's will be checked daily as to mechanical operating condition. All ram type preventers will have hand wheels, which will be operative and accessible at the time the preventers are installed. See attached Exhibit for details on the BOP equipment.

AUXILIARY EQUIPMENT:

- a) Manually operated kelly cock (upper and lower)
- b) Full opening manually operated safety valves in the full open position, capable of fitting all drill stem connections.

4. CASING DESIGN:

Casing Program:

Hole Size Depth Casing Size 12 \(\frac{1}{4}\)" 250' 9 5/8" 8 \(\frac{3}{4}\)" 4800' +/- 7"

Hole Size	Casing Type	Top (MD)	Bottom (MD)	Wt. (lb./ ft)	Grade	Thread	Condition
9-5/8"	Surface	0'	250'	36.0	J55	STC	New
7"	Production	0'	4800' +/-	23.0	N80	LTC	New

	Casi	ng Data	Collapse	Burst	Min. Tensile	
OD_	Wt/Ft	Grade	Thread	(psi)	(psi)	(Lbs.)
9-5/8"	36.0 lbs.	J55	STC	2,020	3,520	394,000
7"	23.0 lbs.	N80	LTC	3,830	6,340	442,000

MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00 TENSION: 1.80

Area Fracture Gradient Range:

0.7 - 0.8 psi/foot

Maximum anticipated reservoir pressure:

2,500 psi

Maximum anticipated mud weight:

9.0 ppg

Maximum surface treating pressure:

3,500 - 3,750 psi

Float Equipment:

Surface Casing: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

<u>Intermediate Casing:</u> Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Cliffhouse formation. One centralizer below stage tool and one centralizer above stage tool.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

165 sxs Type III cement with 2% CaCl₂, ½#/sx cellofakes. 100% excess to circulate cement to surface. WOC 12 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.2 ppg Slurry yield: 1.27 ft³/sack

Volume basis: 40' of 9-5/8" shoe joint 17 cu ft

 300' of 12-1/4" x 9-5/8" annulus
 94 cu ft

 100% excess (annulus)
 94 cu ft

 Total
 205 cu ft

Note:

1. Design top of cement is the surface.

2. Have available 100 sx Type III cement with 2% CaCL₂ for top out purposes.

7" Intermediate Casing:

1st Stage: 100 sacks of Type III cement

Slurry weight: 14.5 ppg Slurry yield: 1.4 ft³/sack

2nd Stage: (Stage tool at 3600' +/-): 365 sacks of Premium Lite FM

Slurry weight: 12.4 ppg Slurry yield: 1.92 ft³/sack

Volume Basis: 40' of 7" shoe joint 9 cu ft

 3900' of 7" x 8 ¾" annulus
 586 cu ft

 300' of 7" x 9 5/8" hole
 50 cu ft

 30% excess (annulus)
 176 cu ft

 Total
 821 cu ft

Note:

1. Design top of cement is surface.

2. Actual cement volumes to be based on caliper log plus 30%.

Note:

1. Design top of cement is 3900 +/- ft. or 300 ft. into 7" intermediate casing.

2. Actual cement volumes to be based on caliper log plus 30%.

5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 300 feet as necessary to keep hole clean.

The intermediate hole will be drilled with water till mud up at about 3100 ft. From 3100' to 4200', intermediate casing depth, will be drilled with LSND mud. Anticipated mud weight ranges from 8.5 - 9.0 ppg. Mud weight will be increased as required to maintain hole stability and control gas influx.

The production hole will be drilled with air or air/mist.

Sufficient mud materials to maintain stable wellbore conditions (for either well control or lost circulation scenarios) will be maintained at the well site.

No chrome-based additives will be used in the mud system.

6. EVALUATION PROGRAM:

Mud logger:

From base of surface casing to TD.

Testing:

No DST is planned

Coring:

None Planned

Electric logs:

Intermediate Hole:

- 1) DIL-GR-SP: TD to base of surface casing.
- 2) LDT-CNL-GR-CAL-PE: TD to base of surface casing

Production Hole:

- 1) DIL-GR-SP: TD to base of intermediate casing.
- 2) LDT-CNL-GR-CAL-PE: TD to base of intermediate casing

7. ABNORMAL PRESSURE AND TEMPERATURE:

H ₂ S	None
Coal	Fruitland
Minerals	None
Water	None
Static BHT	175° F
Lost Circulation	Possible
Hole Deviation	None
Abnormal Pressures	None
Unusual Drilling Problems	None

8. ANTICIPATED STARTING DATE: October 1, 2004

Anticipated duration: 16 days

MULTI-POINT SURFACE USE PLAN

1. Existing Roads:

All existing roads used to access the proposed location are shown on attached plat #1 and shall be maintained in the same or better condition than presently found.

2. Planned Access Roads:

Approximately <u>2050'</u> of new access road will be built for this well. The existing access road will be maintained to at least the current condition, and will be upgraded where necessary to provide uninterrupted access to the proposed well.

3. Location of Existing Wells:

Attached map (Plat #1) shows existing wells within a one mile radius of the proposed well.

4. Location of Production Facilities:

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated.

A <u>4</u>" diameter buried steel pipeline that is <u>+/-2100</u>' will be constructed. The pipe-wall thickness will be <u>Schedule 40</u> and the wall strength is <u>1000</u> psi. The well will be connected to Williams Field Service's gathering system <u>on or at the edge</u> of the well pad. The pipeline ROW will be cross-country to avoid numerous archaeological sites. The pipeline will not be used to transport gas to drill the well.

To protect livestock and wildlife any tanks will be enclosed by a dike and a fence.

5. Water Supply:

Water for drilling and completion operations will be produced water and hauled by truck from surrounding wells or fresh water from the nearest facility with appropriate water quality.

6. Source of Construction Materials:

No additional construction materials will be required to build the proposed location.

7. Methods for Handling Waste Disposal:

The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides prior to drilling and the fourth side when drilling rig is moved off location. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be back-filled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured and reseeded with the appropriate seed mixture.

All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped

in an approved land fill upon completion of operations.

Portable toilets will be provided and maintained during drilling operations. See Plat #3 for location.

8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. The gas pipeline is described on Plat #4.

9. Well Site Layout:

A cross section of the drill pad with approximate cuts, fills, and pad orientation is attached as Plat #2. Location of drilling equipment, rig orientation, and access road approach is also attached as Plat #3.

10. Plans for Restoration of Surface:

When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture.

If the well is productive, areas not used in production will be contoured and seeded with stipulated seed mixture. Production equipment will be painted the color designated by the surface managing agency.

11. Surface ownership:

The surface ownership is: Bureau of Land Management

12. Other Information:

Refer to the Environmental Assessment (EA) and the archaeological report for a description of the soil characteristics and information about the flora and fauna of the area.

13. <u>Lessee's or Operator's Representative:</u>

Billie Maez
Patina San Juan, Inc.
5802 U. S. Highway 64
Farmington, New Mexico 87401

Phone: (505) 632-8056