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

Date: 11/22/04

Phone: 505-632-8056

District IV
1220 S St Francis Dr Santa Fe, NM 87505

State of New Mexico Energy Mifierals and Natural Resources

Submit to appropriate District Office

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

☐ AMENDED REPORT

Form C-101

May 27, 2004

			Operator Name		****			² OGRID Number 173252	A ZONEXX
Patina San Juan, Inc. 5802 U. S. Highway 64							3 API Number		
armington, N	M 87401	(505) 632	-8056				30-	045-	32688
Property Code WILMERDING Property						<u> </u>			ell No.
340	00/	9	Proposed Pool 1			1	10 Dece	posed Pool 2	04
			Proposed Pool I SIN DAKOTA	\			-	posed Pool 2 MESA VERD	E
				7 St	urface Locat	ion			
JL or lot no.	Sec. 10	Township 31N	Range 13W	Lot Idn D	Feet from the 1200	North/South line NORTH	Feet from the 1210	East/West line WEST	SAN JUAN
			⁸ Propos	sed Bottom Ho	le Location If	Different From	Surface		
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	L			Addition	nal Well Info	ormation			
11 Work	Type Code		12 Well Type Cod		13 Cable/Rotary		Lease Type Code	15 Gro	und Level Elevation
	ultiple		G 17 Proposed Dept		R 18 Formation		P Contractor		5802' 20 Spud Date
	N		7300°		in Dakota		N/A		NE 1, 2005
epth to Grou	ndwater >	100'			earest fresh water	well >200'		m nearest surface w	
it: Liner:	Synthetic	12_m	ils thick Clay	Pit Volume:	bbls	Drilling Met	hod:		
Close	d-Loop Sys	tem 🔲				Fresh Water	Brine D	iesel/Oil-based	Gas/Air 🛛
			21	Proposed Ca	sing and Ce	ement Prograi	n		
Hole S	ize	Cas	ing Size			Setting Depth	Sacks of C	ement	Estimated TOC
12 1/4	, "	9	5/8"	36#		250'		165 sx	
8 3/4	"		7"	23#		4200' +/-	465 9	SX	SURFACE
6 1/4	6 1/4"		1/2"	11.6#		530 01	220		40003
		4	/2	11.0#		7300'	220 s	SX	4000'
		4	72	11.0#		7300′	220 s	SX	4000′
escribe the bratina San Mesa Verd	ne proposed blowout pre Juan, Ir le format Dakota/I	program. If vention prog ac. propos tions as re Blanco Mo	f this application is ram, if any. Use a ses to drill a veferenced in the sesa Verde for	s to DEEPEN or Padditional sheets in ertical well at the attached dr	f necessary. the above de rilling plan ar be selectively	e the data on the prescribed location multi-point perforated and	resent productive z on and test the surface use pl	one and proposed Basin Dakota	new productive zone
atina San Iesa Verd The Basin The well w	Juan, Ir le format Dakota/I ill be contify that the	program. If vention prog ac. propos tions as re Blanco Mo anected to information	f this application is ram, if any. Use a sees to drill a verteenced in the sea Verde for the Williams Field of the work of the sea Verde for the williams from the sea verteence the sea verteen	s to DEEPEN or Fadditional sheets it ertical well at the attached drimations will be ld Services gather and complete to the drilling pit were strong to the drilling pit were additional strong to th	the above derilling plan are selectively athering syste	e the data on the prescribed location and multi-point perforated and m.	on and test the surface use pl	one and proposed Basin Dakota	new productive zone and Blanco
atina San Iesa Verd The Basin The well w I hereby cert st of my kno instructed an (attached)	Dakota/I ill be contify that the owledge and coording to alternative	program. If vention prog ac. propos tions as re Blanco Mo information belief. I fun NMOCD g	f this application is ram, if any. Use a sees to drill a verteenced in the seas Verde for a Williams Field given above is truther certify that guidelines 🖂, a guidelines 🖂	s to DEEPEN or Padditional sheets it ertical well at the attached drimations will build Services ga	the above derilling plan are selectively athering system of the vill be approximately and the properties of the vill be approximately athering system.	escribed location multi-point m. OIL Coved by:	on and test the surface use placement of the surface of the surfac	Basin Dakota ans. TION DIVIS	and Blanco
atina San Iesa Verd he Basin he well w I hereby cert st of my kno nstructed at (attached)	Dakota/lill be contify that the bowledge and coording to alternative:	program. If vention prog ic. propositions as re Blanco Mo information belief. I fun information belief. I fun information information information information	f this application is ram, if any. Use a sees to drill a verteenced in the seas Verde for a Williams Field given above is truther certify that guidelines 🖂, a guidelines 🖂	s to DEEPEN or Padditional sheets it ertical well at the attached drimations will be ld Services gather and complete to the drilling pit we general permit	the above derilling plan are selectively athering system of the will be a pro-	e the data on the prescribed location and multi-point perforated and m.	on and test the surface use placement of the surface of the surfac	Basin Dakota ans.	and Blanco

Conditions of Approval Attached

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe. NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

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

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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

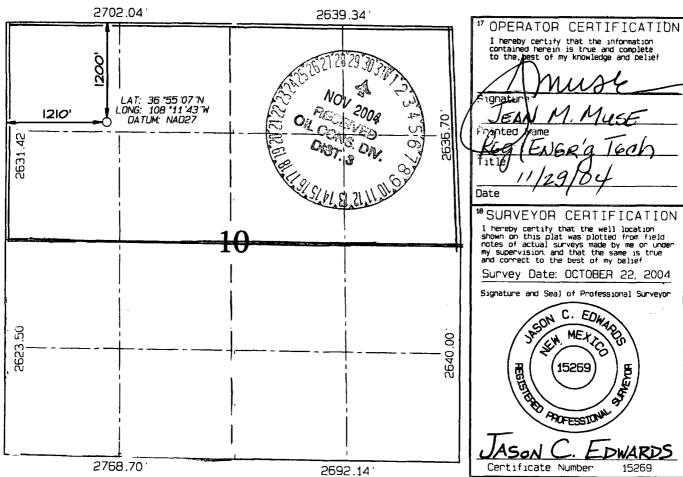
AMENDED REPORT

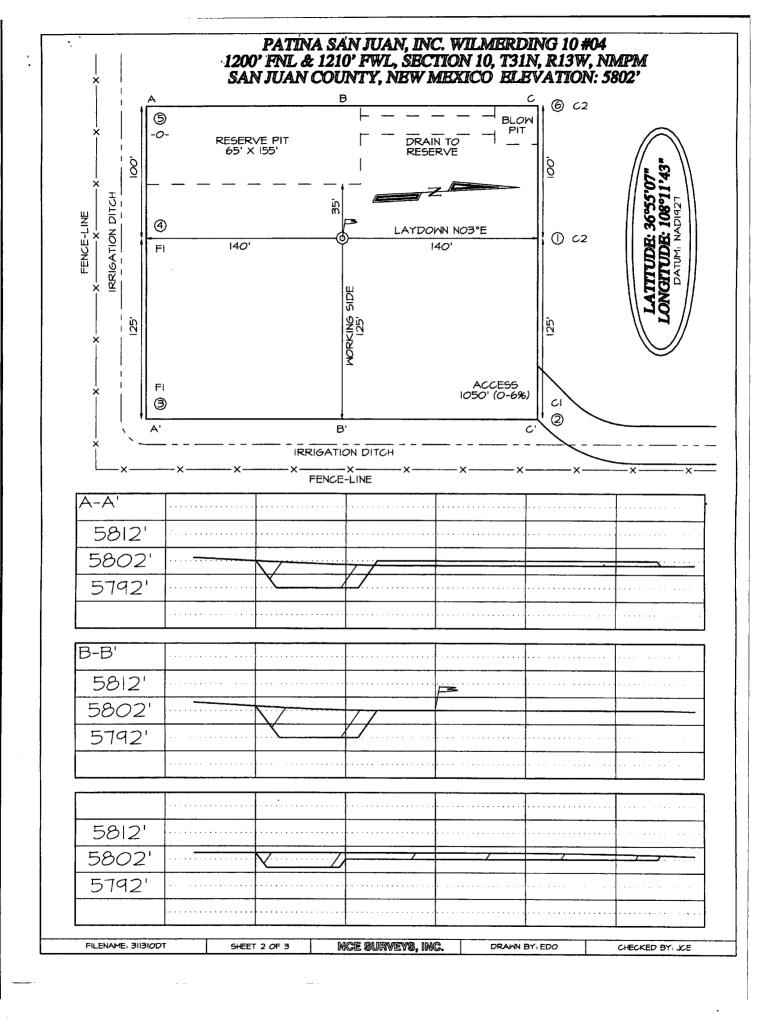
District IV PO Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

30045	PI Numbe	1688	723	Pool Coo 1971599	Bla	nco Mesalbu	ABASIN DA	KOTA			
Property	Code				Property Name				Well Number		
2408	3				WILMERDING 10				04		
'ÒGRID N	No .			-	*Operator	Name			*Elevation		
17325	2			P	ATINA SAN JUAN, INC.				5802		
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		
ם	10	31N 13W 1200 NORTH 1210 WEST SAN .					SAN JUAN				
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace			
UL or lat no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12 2	<u> </u>				13 Joint or Infill	M Samuel Lident Lan Code	15 Control No.	<u> </u>	<u> </u>		
320.0 Acres - (N/2) Consolidation Code 15 Order 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





3. PRESSURE CONTROL EQUIPMENT:

BOP equipment will be tested to the lesser of its rated working pressure, 70-percent of the internal yield of the surface casing or 1,000 psi. See attachments for BOP and choke manifold diagrams.

Production Hole BOP Requirements and Test Plan

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11" – 2,000 psi single ram (blind)
11" – 2,000 psi single ram (pipe)
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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 ¹/₄" 250' 9 5/8" 8 ³/₄" 4200' +/- / 150' below Menefee top 7"

6 1/4" 7300' / through Dakota 4 1/2"

Casing Size	Casing Type	Тор (MD)	Bottom (MD)	Wt. (lb./ ft)	Grade	Thread	Condition
9-5/8"	Surface	0'	250'	36.0	J55	STC	New
7"	Intermediate	0'	4200° +/-	23.0	N80	LTC	New
4 ½"	Production	4000'	7300'	11.6	N80	LTC	New

	Cas	ing 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
4 1/2"	11.6 lbs.	N80	LTC	6,350	7,780	223,000

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.

Intermediate Casing: 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.

Production Casing: 4 1/2" whirler type cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

165 sxs Type III cement with 2% CaCl₂, ¼#/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 3400° +/-): 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 3/4" 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%.

4 1/2" Production casing:

Stage 1: 220 sacks of Premium Lite High Strength FM out guide shoe.

Slurry weight: 12.3 ppg Slurry yield: 2.13 ft³/sack

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft

4 1/2 " x 6 1/4" hole	318 cu ft
4 ½" x 7" casing	33 cu ft
30% excess (annulus)	107 cu ft
Total	463 cu ft

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 until 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.

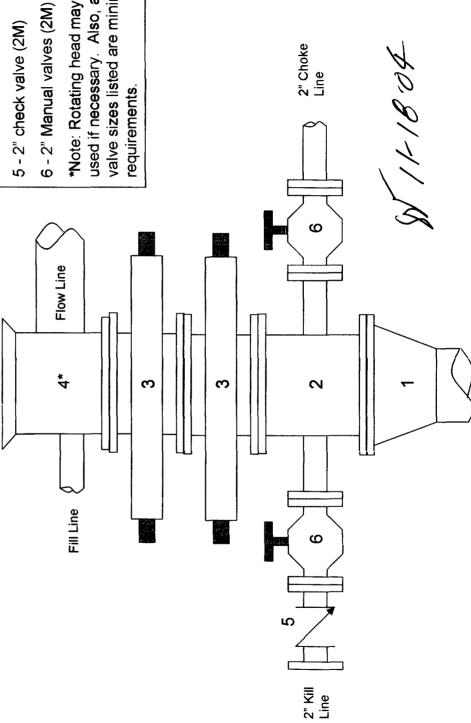
Willmerding 10 No. 04

Minimum requirements 2000 psi BOP stack

Components

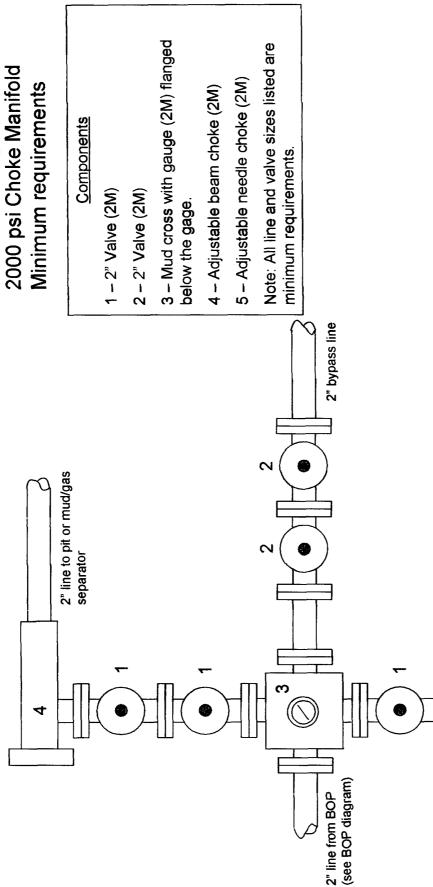
- 1 Wellhead 9-5/8" (2M)
- 2 Drilling spool 11" (2M)
- 3 A double or two single rams with blinds on bottom 11" (2M)
- 4 Bell nipple*

used if necessary. Also, all line and *Note: Rotating head may also be valve sizes listed are minimum



Willmerding 10 No. 04

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2" line to pit or mud/gas separator