District I 1625 N. French Dr., Hobbs, NM 88240 District II

130 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico **Energy Minerals and Natural Resources**

Form C-101 May 27, 2004

Oil Conservation Division !? 1220 South St. Francis Dr.

Submit to	appropriate	District	Office
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☐ AMENDED REPORT

1220 S. St. Fi	rancis Dr., S	Santa Fe, N	M 87505		Sa	nta Fe, 🏌	MM 875	505 ⁽ (%)			_		
APPLI	CATIO	N FOR				ENTE	R, DE	EPEN.	PLUGBAC			A ZONEXX	
/ Dating Com Ive	Inc		Operator Name	and Addre	ess	ļ¢.) G	574			D Numbe	173252	
Patina San Jua 5802 U. S. Hi Farmington, N	ghway 64	(505) 63	2-8056			J.		ं र्ही ौ _		30 -0	Number X	32585	
Prope	rty Code	/			³ Prope	rty Name	V.	ZU	La Maria			1 No.	
24	<u> </u>)	Proposed Pool 1	HON	NDO 27	······································	Ţ.		10 Dr c	posed Pool	1.2	-12	
			FRUITLAND	COAL						posed 1 00	1 2		
				_	⁷ Surfa	ce Loca	tion						
UL or lot no. L	Sec. 27	Township 31N	Range 13W	Lot I		et from the 1650			Feet from the 775		Vest line EST	County SAN JUAN	
			8 Propo	sed Bott	om Hole Lo	cation If	Differen	nt From	Surface				
UL or lot no.	Section	Township	Range	Lot	Idn Fe	et from the	North/S	South line	Feet from the	East/W	est line/	County	
			- 	Ad	lditional \	Well Inf	ormati	on		<u> </u>			
_	Type Code N		¹² Well Type Co			Cable/Rotary R		1.	P Lease Type Code			⁵ Ground Level Elevation 5549'	
	16 Multiple 17 Proposed De Y 1900'			th		Formation	.a1	<u> </u>	19 Contractor N/A		OCTOBER 2004		
Depth to Grou			100'	Distanc	e from nearest			1000	T = 1	om nearest			
<u>Pit:</u> Liner:	Synthetic		mils thick Clay	☐ Pit V	olume:	bbls		rilling Me		-			
Close	d-Loop Sys	tem 🔲					Fi	resh Water	Brine 🗌 🛚	<u> iesel/Oil-b</u>	ased	Gas/Air	
			21	Propos	sed Casin	g and Co	ement	Progra	m	<u></u>	T		
Hole S	ize	Ca	sing Size	Casin	g weight/foot		Setting D	epth	Sacks of	Cement		Estimated TOC	
12 ½		9	5/8"		36#		250		140			SURFACE	
8 3/4		<u> </u>	7"		23#		1900)²	180	SX		SURFACE	
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. Patina San Juan, Inc. proposes to drill a vertical well at the above described location and test the Fruitland Coal formation. A 12 1/4" surface hole will be drilled to 250' where 9 5/8" casing will be set and cemented to surface with 140sxs (173 cu ft) of Type III cement with ½#/sx Celloflake and 2% CaCl ₂ 2000 psi single rams will be installed and pressure tested to 1000 psi. A 8 ¾" hole will be drilled to approximately 1900' with spud mud w/gel and polymer sweeps used from surface to 250' to clean hole. Induction and density logs will be run from TD to base of surface csg. 7" production casing will be run to TD and cemented to surface with 180 sx (339 cu ft) Premium Lite high strength 35/65 pozmix cement. The Fruitland Coal formation will be selectively perforated and completed. The well will be connected to Williams Field Services gathering system.													
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 .					Appro	OIL CONSERVATION DIVISION Approved by:							
Printed name:	JEAN M.	MUSE	'			Title:	DEFUT	OR S	GAS KOYKIT	ir, dist.	7 7		
Title: REGUI	LATORY/E	NGINEER	ING TECHNICIA	N		Appro	val Date	.H 2	0 2004	Expira S	EP :	2005	
E-mail Addres	ss: <u>jmuse@</u>	patinasanji	ian.com		 				~		~		
Date: 00/17/0	14		Phone: 505-	622-8056		Condi	tions of A	nnroval A	ttacher			* * *	

Distract 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 Box 2088, Santa Fe, NM 87504-2088

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

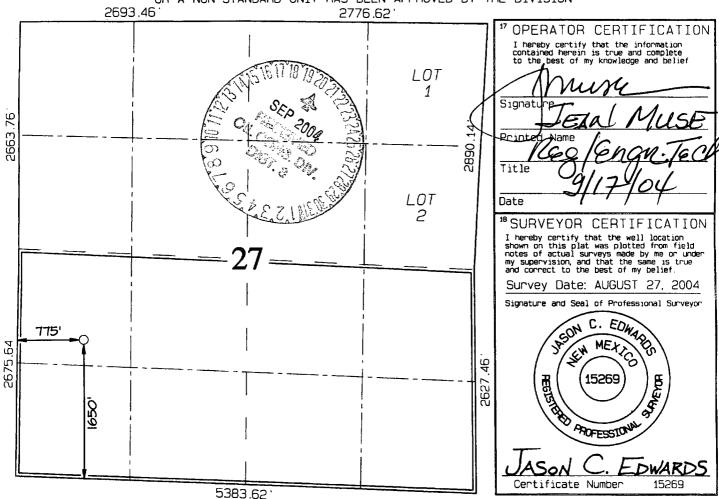
AMENDED REPORT

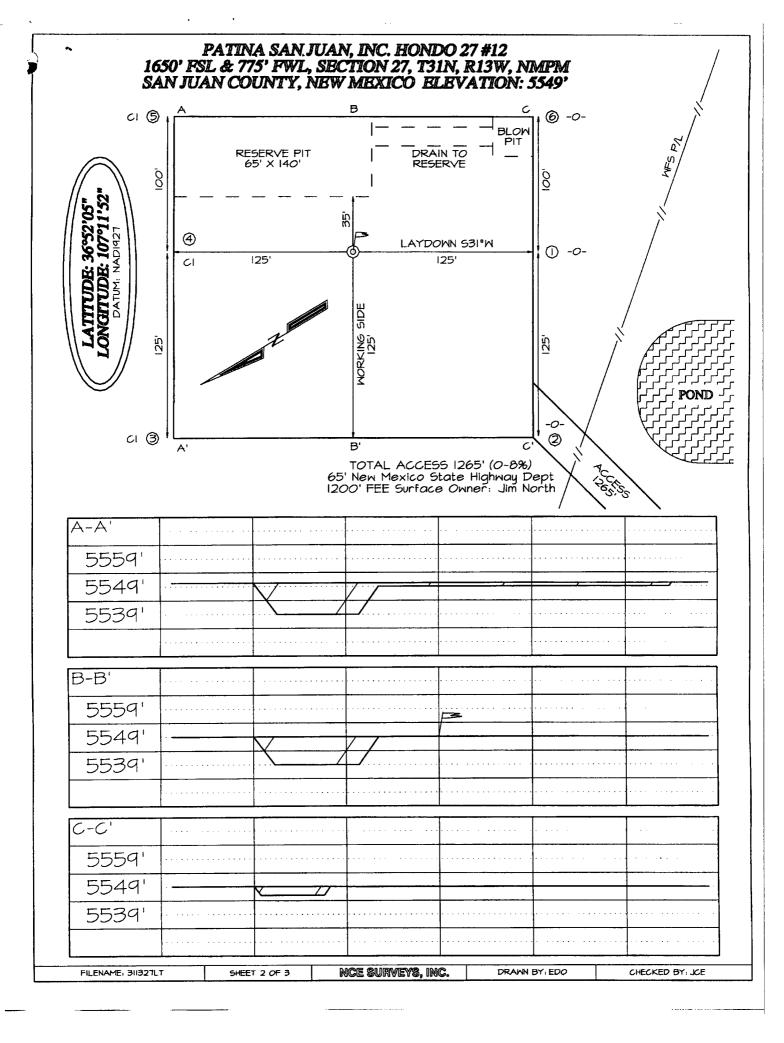
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-045-32585	71629						
Property Code		operty Name ONDO 27		• We	ell Number 12		
OGRID №. 173252	•	erator Name SAN JUAN, INC.		*E	levation 5549		
	10 Sunfa	ace Location			County		

UL or lat no. Section Township Feet from the North/South line Feet from the East/West line County 31N 1650 SOUTH 775 WEST SAN JUAN 27 13W ¹¹ Bottom Different From Surface Hole Location If UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 12 Dedicated Acres ¹³ Joint or Infill ⁵⁴ Consolidation Code 15 Order No. 320.0 Acres - (S/2)

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





Operations Plan Patina San Juan, Inc. Hondo #27-12. San Juan County, New Mexico

1. LOCATION:

SW SW Section 27, T31N, R13W San Juan County, New Mexico

Field: Basin Fruitland Coal

Surface: Fee Minerals: Fee

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

Surface formation - Nacimiento

Formation	Depth
Fruitland**	924'
Pictured Cliffs ***	1672'
TD	1900'

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 the lesser of its rated working pressure, 70-percent of the internal yield of the surface casing or 1,000psi. 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 1/4"

250'

9 5/8"

8 3/4"

1900'

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'	1900 '	23.0	J55	STC	New

Casing Data OD Wt/Ft Grade Thread			Grade	Collapse (psi)	Burst (psi)	Min. Tensile (Lbs.)
9-5/8"	36.0 lbs.	J55	STC	2,020	3,520	394,000
7"	23.0 lbs.	J55	STC	3,270	4,360	284,000

MINIMUM CASING DESIGN FACTORS:

COLLAPSE: 1.125 BURST: 1.00

TENSION: 1.80

Area Fracture Gradient Range:

0.85 to 1.30 psi/foot

Maximum anticipated reservoir pressure:

900 psi

Maximum anticipated mud weight:

9.0 ppg

Maximum surface treating pressure:

1,500 psi

Float Equipment:

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

Production Casing: 7" 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:

140 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

250' of 12-1/4" x 9-5/8" annulus 78 cu ft 100% excess (annulus) 78 cu ft

Total 173 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" Production casing:

180 sacks of Premium lite high strength 35/65 pozmix cement.

Slurry weight: 12.4 ppg

Slurry yield:

1.91 ft³/sack

Volume basis:

 40' of 7" shoe joint
 9 cu ft

 7 " x 8 3/4" hole
 244 cu ft

 250' of 9 5/8" x 7" casing overlap
 42 cu ft

 15% excess (annulus)
 44cu ft

 Total
 339 cu ft

Note:

1. Design top of cement is the surface.

2. Actual cement volumes to be based on caliper log plus 15%.

5. MUD PROGRAM:

The surface hole will be drilled with spud mud. Gel and polymer sweeps will be used from surface to 250 feet as necessary to keep hole clean.

The production hole will be drilled with LSND mud from base of surface casing to TD. 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.

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.

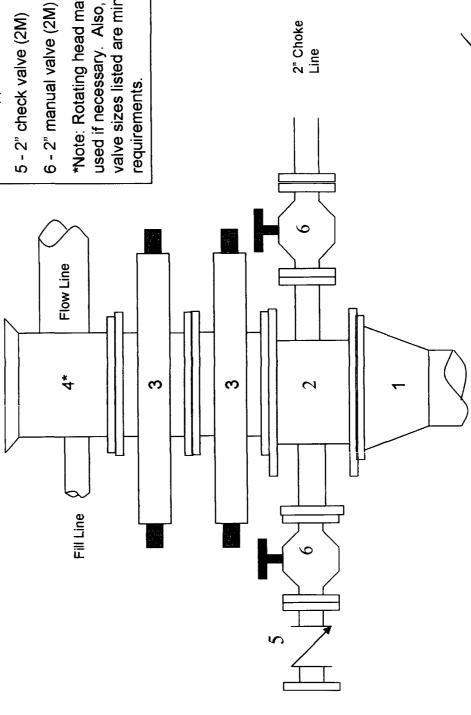
Hondo #27-12

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



2" Kill Line

\$0-91-8 M

2000 psi Choke Manifold Hondo #27-12

Minimum requirements

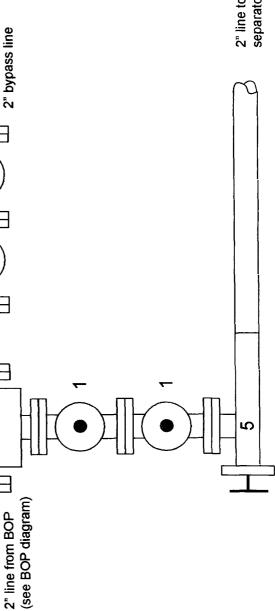


2" line to pit or mud/gas

separator

- 1 2" Valve (2M)
- 2 3" Valve (2M)
- 3 Mud cross with gauge (2M) flanged below the gage.
- 4 Adjustable beam choke (2M)
- 5 Adjustable needle choke (2M)

Note: All line and valve sizes listed are minimum requirements.



2" line to pit or mud/gas separator