Submit 3 Copies To Appropriate District	State of New Me	exico	and the second s	Form C-103	
Office District I	Energy, Minerals and Natu	ıral Resources		May 27, 2004	
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.		
District II	OIL CONSERVATION	MINISION	30-045-32611		
1301 W. Grand Ave., Artesia, NM 88210			5. Indicate Type of	Lease	
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE	FEE 🛛	
District IV	Santa Fe, NM 87	7505	6. State Oil & Gas L	ease No.	
1220 S. St. Francis Dr., Santa Fe, NM					
87505	ES AND REPORTS ON WELLS	1	7 Laga Nama an II	nit Agreement Name	
(DO NOT USE THIS FORM FOR PROPOSA			JACQUEZ 02	ini Agreement Name	
DIFFERENT RESERVOIR. USE "APPLICA					
PROPOSALS.)	_		8. Well Number		
7 1	as Well 🛛 Other		#04		
2. Name of Operator			9. OGRID Number	173252	
PATINA SAN JUAN, INC			10 5 1	** *	
3. Address of Operator		0.4	10. Pool name or Wildcat		
5802 U.S. HIGHWAY 64 FARM	NGTON, NEW MEXICO 874	01 	Blanco Mesa Verde	Blanco Mesa Verde/Basin Dakota	
4. Well Location					
Unit Letter D	: 660 feet from the NORTH	line and66	o feet from the WI	EST line	
Section 2 Township 31			JAN County		
	11. Elevation (Show whether DR,				
and and a control of the control of	5786' GL	, 1212, 111, 011, 010			
Pit or Below-grade Tank Application or C					
Pit type <u>Drilling</u> Depth to Ground	water_>100' Distance from nearest fr	esh water well >1000	' Distance from nearest surf	face water 1000'	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume			NTHETIC	
1			· · · · · · · · · · · · · · · · · · ·		
12. Check Ap	propriate Box to Indicate N	ature of Notice,	Report or Other Da	ıta	
NOTICE OF INT	ENTION TO:	l eue	SECHENT DEDC	NDT OF:	
			SSEQUENT REPO		
	PLUG AND ABANDON THE PLANS IN	REMEDIAL WOR	-	TERING CASING	
	CHANGE PLANS	i .		AND A	
PULL OR:ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	IT JOB		
OTHER:		OTHER:		П	
13. Describe proposed or complet	ed operations. (Clearly state all r		nd give pertinent dates.	including estimated date	
). SEE RULE 1103. For Multipl				
or recompletion.	,		g	pp	
•					
PATINA ŞAN JUAN REQUESTS A		G PROGRAM FO	OR THE DRILLING (OF THE DAKOTA	
AND MESA VERDE FORMATION	S.				
ATTACHED IS A REVISED DRILI	ING PLAN FOR THE CHG I	N SURFACE CAS	SING.	17 18 10 200	
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I handre consider that the last of the las		-t - C 1 1 1	11 1 0 -		
I hereby certify that the information aboursed tank has been/will be constructed or clo	ove is true and complete to the be	st of my knowledg	e and belief. I further ce	rtify that any pit or below-	
grade with his been, will be constituted of the	wa according to MMOCD guidenines [n, a generai permit [_	or an (arrached) afternative	፣ ∪CD-approveα pian ∐.	
SIGNATURE / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4 TITLE	Regulatory/Eng	gineering Technician	DATE <u>02/15/06</u>	
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Type or print name	E-mail add	dress:	Telen	hone No.	
For State Use Only			- 5. - P		
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		TY OIL & GAS INSP	ector, dist. 🔑	FEB 1 6 2nac	
APPROVED BY: Conditions of Approval (if any):	My TITLE	TY OIL & GAS HISP		FEB 1 6 2006	

CASING DESIGN:

Hole Data					
Interval	Bit Size (Inches)	Casing Size (Inches)	Top (Ft)	Bottom (Ft)	
Surface	13.50	9.625	0	300	
Intermediate	8.75	7.0	0	4600	
Production	6.25	4.5	4300	6600	

Casing Data							
OD (Inches)	ID (Inches)	Weight (Lbs/Ft)	Grade	Thread	Collapse (psi)	Burst (psi)	Min. Tensile (Lbs)
9.625	8.921	36.0	J55	STC	2,020	3,520	394,000
7.000	6.366	23.0	L80	LTC	3,830	6,340	435,000
4.5	4.276	11.6	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:

3,750 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.

<u>Production Casing:</u> 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:

225 sx Type III cement with 3% 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: 14.5 ppg Slurry yield: 1.42 ft³/sack

Volume basis:

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

 300' of 13-1/2" x 9-5/8" annulus
 147 cu ft

 100% excess (annulus)
 147 cu ft

 Total
 311 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:

150 sx of Type III cement plus additives

Slurry weight: 12.3 ppg Slurry yield: 2.22 ft³/sx

 2^{nd} Stage: (Stage tool at ± 3000 ')

Lead: 235 sx of Type III cement plus additives

Slurry weight: 12.3 ppg Slurry yield: 2.22 ft³/sx

Tail: 50 sx of Type III cement plus additives

Slurry weight: 14.5 ppg Slurry yield: 1.40 ft³/sx

Volume Basis:

40' of 7" shoe joint	9 cu ft
4300' of 7" x 8 ¾" hole	647 cu ft
300' of 7" x 9 5/8" casing	50 cu ft
30% excess (annulus)	209 cu ft
Total	915 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:

175 sx of Type III cement plus additives

Total

Slurry weight: 12.5 ppg Slurry yield: 2.06 ft³/sx

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft
	2000' of 4 ½" x 6 1/4" hole	205 cu ft
	300' of 4 ½" x 7" casing overlap	33 cu ft
	200' above 4.5" liner (without drill pipe)	44 cu ft
	30% excess (annulus)	72 cu ft

Note:

1. Design top of cement is ± 4100 ' (200' above the top of the 4.5" liner w/out drill pipe).

359 cu ft

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 mud up point to intermediate casing depth ($\pm 4600^{\circ}$), it will be drilled with a LSND mud. Anticipated mud weight ranges from 8.5-9.2 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 to TD.

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.