Submit 3 Copies To Appropriate District	State of New Me	xico /	,	Form C-10	3
Office District I	Energy, Minerals and Natu	ral Resources 🔝		May 27, 200	14
1625 N. French Dr., Hobbs, NM 88240	•	<i>t</i> 1	ELL API NO.		İ
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	171 V 1/31(7/N 1 1	0-045-32690		_
District III	1220 South St., Fran	cis Dr.	Indicate Type		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87	1505	STATE	☐ FEE ☒	-
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Sultur 10, 11111 07	0.	State Oil & Ga	as Lease No.	
SUNDRY NOTI	CES AND REPORTS ON WELLS	234 7.	Lease Name o	or Unit Agreement Name	\dashv
(DO NOT USE THIS FORM FOR PROPOS	SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT" (FORM C-101) FO SEF	JG BACK TO A A	LAMO 22		
1. Type of Well: Oil Well	Gas Well 🖾 Other	2000 ON 8.	Well Number	#08	
2. Name of Operator	E OIL CO	NS. DIV. 3 9.	OGRID Numb	per 17352	ヿ
PATINA SAN JUAN, INC.					_
3. Address of Operator 5802 US HIGHWAY 64, FARMI	NGTON, NM 87401		 Pool name or RUITLAND C 	r Wildcat OAL/BASIN DAKOTA	
4. Well Location		1196			\dashv
Unit Letter H :	2235 feet from the NORTH	line and 660 f	eet from the	EAST line	
Section 22		nge 13W		N JUAN County	
	11. Elevation (Show whether DR,			The state of the s	
	5607'GR	,,,		THE PERSON NAMED IN	
Pit or Below-grade Tank Application 🗌 o	Closure 🗌		Parameter State of the State of	100 100 100 100 100 100 100 100 100 100	T
Pit type_reserveDepth to Groundwa	ater_>200' Distance from neare	st fresh water well <u>>1000</u>	' Distance from n	earest surface water_>1000'	ł
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Construction	Material reinforce	ed polyethylene plastic	
	nnesmista Pay to Indicate N				
12. Check A	Appropriate Box to Indicate Na	ature of Notice, Re	port or Other	Data	*
NOTICE OF IN	TENTION TO:	SUBSE	QUENT RE	PORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON ☐	REMEDIAL WORK		ALTERING CASING	
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLII	NG OPNS.□	P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT JO	DB □		
				_	
OTHER: CHANGE WELL NAME,	eted operations. (Clearly state all p	OTHER:			_
	rk). SEE RULE 1103. For Multiple				
or recompletion.	rk). SEE ROEE 1103. 101 Wantiple	c Completions. Attach	welloofe diagra	am or proposed completic	Ж
PATINA SAN JUAN, INC. PROPO	OSES TO CHANGE THE WELL	NAME			
FROM: COMPASS	אַר #חפּ				
TO: ALAMO 22	# 08 - 34333				
ADD THE FRUITLAND COAL F VERDE FORMATION, PER THE FORMATIONS WILL BE SELEC	ATTACHED DRILLING PLAN	. THE BASIN DAK			
THE WELL WILL BE CONNECT SERVICES.	TED TO THE SANDROCK GAT	HERING SYSTEM F	OR SALE TO	WILLIAMS FIELD	
			_	Docin Fruit 10	, pd
		0107	Corn to	r 12000	
		HON POR CIUZ		cou.	
	910			r Basin Fruitle eacl.	
I hereby certify that the information a grade tank has been/will be constructed or c	bove is true and complete to the bes	st of my knowledge and	a bellet. I furthe	er certify that any nit or below	
SIGNATURE MUS	/	gulatory/Engineering			
Type or print name	E-mail add			lephone No.	
For State Use Only	7.4 AUCTOR ATTER	DA R CAC INCENTED		-	
APPROVED BY:		OIL & GAS INSPECTOR	, ()	DATE SEP 02 20	10^{5}
Conditions of Approval (if any):	TITLE_			DATE	_

Alamo 22 #08 General Drilling Plan Patina San Juan, Inc. San Juan County, New Mexico

1. LOCATION:

Est. elevation: 5607'

SENE of Section 22, T31N, R13W

San Juan, New Mexico

Field: Basin Fruitland Coal & Basin DK

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

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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:	1,000 psi (High	250 psi (low)
c)	Choke 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:

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	4650
Production	6.25	4.5	4350	6660

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.

<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.

<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:

245 sx 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 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:

170 sx of Type III cement plus additives

Slurry weight: 13.0 ppg Slurry yield: 2.00 ft³/sx

2nd Stage: (Stage tool at ±3000')

Lead: 215 sx of Type III cement plus additives

Slurry weight: 12.5 ppg Slurry yield: 2.24 ft³/sx

Tail: 60 sx of Type III cement plus additives

Slurry weight: 13.0 ppg Slurry yield: 2.00 ft³/sx

Volume Basis:

40' of 7" shoe joint	9 cu ft
4350' of 7" x 8 3/4" hole	654 cu ft
300' of 7" x 9 5/8" casing	50 cu ft
30% excess (annulus)	211 cu ft
Total	924 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:

180 sx of Type III cement plus additives

Slurry weight: 13.0 ppg Slurry yield: 2.00 ft³/sx

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft
	2010' of 4 ½" x 6 1/4" hole	206 cu ft
	300' of 4 1/2" x 7" casing overlap	33 cu ft
	200' above 4.5" liner (without drill pipe)	44 cu ft
	30% excess (annulus)	72 cu ft
	Total	360 cu ft

Note:

- 1. Design top of cement is ± 4150 ' (200' above the top of the 4.5" liner w/out drill pipe).
- 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 (± 4650 °), 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.

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) No open hole logs

2) Cased hole resistivity & porosity logs

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: September, 2005

Anticipated duration: 16 days