UNITED STATES

FORM APPROVED OMB NO. 1004-0137 Expires: March 31, 2007

	DEPARTMI	ENT OF THE	INTER	CIC	R	5.	Lease Serial N	0.		
	BUREAU OF LAND MANAGEMENT						NM SF -078463 A 6. If Indian, Allottee or Tribe Name			
APPLICATION FOR PERMIT TO DRILL OR REENTER						6.				
			2006	S	EP 21 AM 9 5	2	N/A			
1a. Type of Work X DRILL REENTER RECEIVED					7.	N/A				
1b. Type of Well						one 8.	8. Lease Name and Well No. * Quietman Federal 28 #02			
2. Name of Operat						9.	API Well No.	(T . 2	2020:	
	il and Gas C	orp.		T.:			20-04	<u>3 </u>	<u> </u>	
3a. Address				3b. Phone No. (include area code)			10. Field and Pool, or Exploratory			
		Denver, CO 802			303.228.422		Fruitland (
At surface	(Report location cle	arly and In accordance	with any i	State	requirements.*)	. 111	. Sec., T., R., M	., or Blk. Ar	nd Survey or Area	
	NE, 660' FNL,	1875' FEL					() Section 28	8. T31N -	- R13W	
At proposed pro)	,		
		TION FROM NEARE	ST TOWN	OR	POST OFFICE*	12	. County or Pari	sh	13. State	
	orth of Farmingt						San Ju		New Mexic	
15. Distance from p		O11, 14311		16.	No. of Acres in lease	17. Spacing	Unit dedicated to		1 New Mexico	
location to neare	:st									
property or lease	.,	60'			1600	N/2	320 acres			
	drlg unit line, if any)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		10	D1 D4	20 DIM/E	NA Dand Na and			
	roposed location* to r		į	19.	Proposed Depth	20. BLM/ B	BIA Bond No. on t	ile		
	ed for, on this lease, t		`		6602'		LMP 872	0503		
	w whether DF. RT, G	R, etc.)		22.	Aproximate date work will	start*	23. Estimated			
	757' GR				11/1/2006		16 day	rs to drill		
The following com	eleted in accordance y	with the requirements of	of Onshore		24. Attachments and Gas Order No. 1 shall b	e attached to	this form:			
	ed by a registered sur	_	on Onshore	OII	4. Bond to cover the o			risting bond	on file	
2. A Drilling Plan.	od by a registered sur	veyor.			(see item 20 above)	-	iess covered by ca	isting oong	on nie	
	lan (if the location is				Operator certificati					
System Lands, the Forest Service C		d with the appropriate			 Such other site spectrum. by the a authorized 		ion and/ or plans	as may be re	equired	
		face Use Plan, BOP	E Diggra	m 0	,	onicor.			<i>JUL5</i> '07	
Allachea. Di	mig rrogiam, sor	race ose i lan, boi	L Diagrai	iii u	II Q LAI IIDIIS 1 - 4.			OIL (CONS. DIV.	
I hereby certify	that Patina Oil & Ga	ıs Corp. is responsible u	under the	term	ns and conditions of the le	ase to cond	uct lease operat	ions.	DIST. 3	
Bond coverage	pursuant to 43 CFR	3104 for lease activitie	es is being	prov	vided by BLM Bond # LMP	8720503				
25. Signature	//		Name 7	Prin	ted/ Typed)		Da	ate		
A					: Mazotti				/19/2006	
Title	-	•							,,	
	gulatory Analys	<u> </u>								
Approved By (Signa	ture)///	han lanto	Name (I	Prini	ted/ Typed)		Da	ite —	2/87	
Title /	7/// lan	recog)						<i>>/</i>	
Title /	19	-10	Office	7						
Application approval	does not warrant or	certify that the annlican	t holds lea	al or	equitable title to those righ	ts in the suhie	ect lease which w	ould		
entitle the applicant t	to conduct operations	thereon.	it noids log	,441 ()1	equitable title to those righ	FYAZ	ZTECO	CD 2	24 HRS.	
Conditions of approv	al, if any, are attache	d.			PRIO	RTO	CASINO	3 & C	EMENIT	
		•			for any person knowingly a	nd willfully to	make to any dep			
					presentations as to any matte					
* (Instructions on rev	verse) <u>SUIMI</u> Is action is subject to	of applications	ver pid	$-\rho_{c}$	eval ton NMEXP	(-103)	UNION TOC	onstruc	ting Location	
. nrr	acedural review burs	suant to 43 CFR 3165 .	3		DF SU	BJECT TO C	RATIONS AUTHO OMPLIANCE WIT	HIZED ARE	ED.	
an	d appeal pursuant to	o 43 CFR 3165.4			4C	ENERAL REC	QUIREMENTS".		a: 127	
aman ded	emty fre	gram)	M)CD 17-16-0-	i	•			
williamo	- 11. 20 1. 20	0	,		O DIA					

District I PO Box 1980, Hopbs, 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 2088 Santa Fe, NM 487504-20882 Revised February 21, 1994 Instructions on back

Form C-102

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

AMENDED REPORT

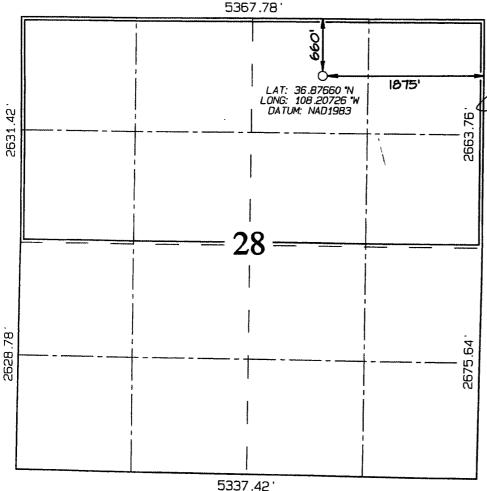
RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

г	'API Number	1	*Pool Code	7110 71	OF ILPROP	*Pool Name		
		ania	1001 0000				COLITTI AND	COAL
İ	30-04S-	33131	72319-71599-71629	BLANCU	WESAVEHUE-BASI	N DAKOLA-BAZIN	FRUITLAND	LUAL
-	*Property Code	1	Property Name *Well Number				er	
	36599		QUIETMAN FEDERAL 2B 02					
ſ	'OGRID No			*Operator	Name		°Elevation	1
1	173252		PATINA SAN JUAN, INC. 5757'					

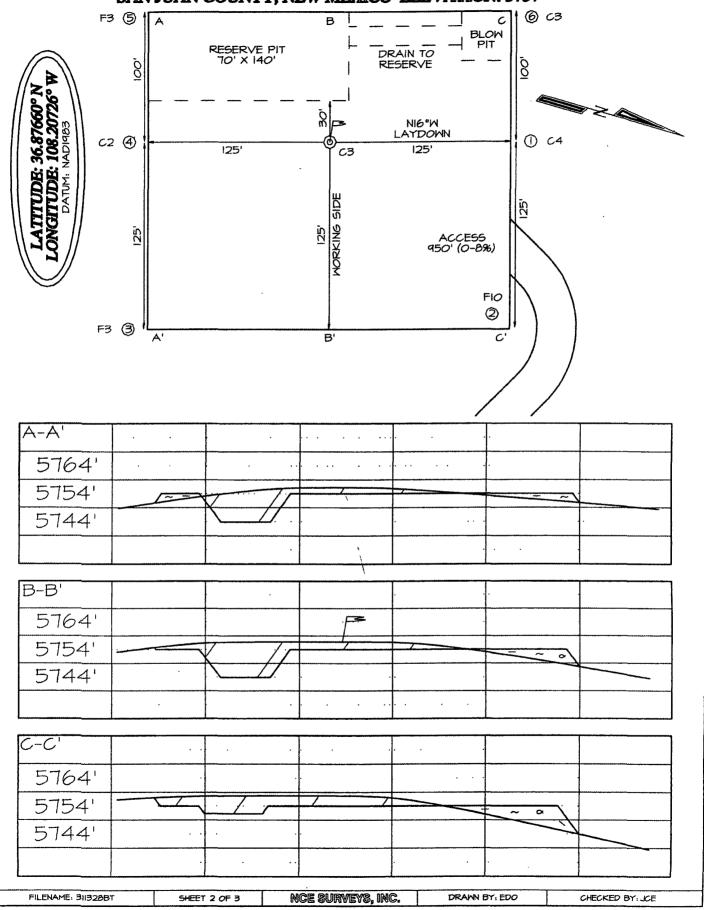
¹⁰ Surface Location UL or lot no. Section Township Feet from the Feet from the East/West line County В 28 31N 13W 660 **NORTH** 1875 **EAST** SAN JUAN ¹¹Bottom Hole Location If Different From Surface County UL or lot no. North/South line Section Township Feet from the Feet from the East/West line ¹² Dedicated Acres ¹³Joint or Infill ¹⁴ Consolidation Code 5 Order No. 320.0 Acres - (N/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



	17 OPERATOR CERTIFICATION
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
1	Signature
-	Doe Mazotti
	Printed Name
	Regulatory Analyst
	11T.187
	9/19/06
	Date
ı	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 of Survey: MAY 19, 2006
	Signature and Seal of Professional Surveyor
	STON C. EDWARDS MEXICO 15269 F
	THE STORESTON
	JASON C. EDWARDS Certificate Number 15269

PATINA SAN JUAN, INC. QUIETMAN FEDERAL 28 #02 660' FNL & 1875' FEL, SECTION 28, T31N, R13W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5757'



Patina Oil & Gas Corp.

Drilling Plan

Quietman Federal 28 #02 "B", NWNE, Section 28, T31N - R13W San Juan County, New Mexico

1. LOCATION:

Est. elevation: 5757'

NWNE Section 28-T31N-R13W

660' FSL 1875' FEL San Juan, New Mexico

Field:

Fruitland / Basin Dakota Surface: United States of America Minerals: United States of America

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

Surface formation - Nacimiento

	drilling
Formation	depth
Ojo Alamo	867
Kirtland	976
Fruitland	1471
Pictured	
Cliffs**	1794
Lewis	1983
Cliff House**	3504
Menefee	3546
Point	
Lookout**	4212
Mancos	
Shale	4545
Gallup**	5768
Greenhorn	6291
Graneros	6352
Dakota***	6409
TD	6602

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:	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	12.25	9.625	0	300
Production '	8 3/4	7.0	0	4700
Production	6 1/4	4.5	4400	6602

	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
7.0	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:

<u>Surface Casing</u>: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

<u>Production 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 centralizers over potential hydrocarbon bearing zones. Stage tool above the Point Lookout formation. One centralizer below stage tool and one centralizer above stage tool.

CEMENTING PROGRAMS:

9-5/8" Surface casing:

250 sx Type III cement with 3% CaCl₂, ¼#/sx cellofakes. 100% excess to circulate cement to surface. WOC 4 hrs. Pressure test surface casing to 1000 psi for 30 minutes.

Slurry weight: 15.2 ppg Slurry yield:

1.28 ft³/sack

Volume basis:

40' of 9-5/8" shoe joint 17 cu ft 300' of 12-14" x 9-5/8" annulus 147 cu ft 147 cu ft 100% excess (annulus) Total 310 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:

1st Stage:

90 sx Type III cement plus additives

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

2nd Stage:

Lead: 110 sx of Type III cement plus additives

Slurry weight: 12.0 ppg 2.55 ft³/sx Slurry yield:

Tail: 235 sx Type III cement plus additives

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

Volume basis:

1st Stage:

40' of 7" shoe joint 10 cu ft 900' of 7" x 8 3/4" hole 140 cu ft

2nd Stage:

3800' of 7" x 8 3/4" hole 575 cu ft 30% excess (annulus) 175 cu ft Total 900 cu ft

Note:

- 1. Design 1st stage top of cement is ±3,800' (150' above the top of the Menefee formation). Circulate 2nd stage to surface
- 2. DV tool is 150' below the top of the Menefee Shale formation.
- 3. Actual cement volumes to be based on caliper log plus 30%.

4.5" Production casing: Civculate to 100 (minimum) above 7" Shoe

160 sx of 50/50 Type III/Poz cement plus additives

Slurry weight: 12.5 ppg Slurry yield: 1.78 ft³/sx

Volume basis:	40' of 4 1/2" shoe joint	5 cu ft
	2,484' of 6 1/4" x 4 1/2" annulus	195 cu ft
	40% excess (annulus)	80 cu ft
	Total	280 cu ft

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 production hole will be drilled with water until mud up at about 3600 ft. From mud up point to intermediate casing depth, 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 well will be air drilled from intermediate casing point to total depth.

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: Production Hole:

1) GR-Neutron: TD to\surface.

2) SP-LDT-DIL-CAL-PE: TD to base of surface 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: Q2, 2006

Anticipated duration: 16 days

5 - 2" check valve (2M) Flow Line Fill Line requirements. 3 3 2" Choke 2 Line

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*
- 6 2" Manual valves (2M)
- *Note: Rotating head may also be used if necessary. Also, all line and valve sizes listed are minimum

4 2" line to pit or mud/gas separator 2" line from BOP 2" bypass line (see BOP diagram) Attachment #2

2000 psi Choke Manifold Minimum requirements

Components

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

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

2" line to pit or mud/gas separator