UNITED STATES

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 09 2010 annington Field Office au of Land Managemen. T25N, R6W, NMPM	5. 6. 7. — 8. — 9. — 10.	API Well No. 30-039-30878 Field and Pool
	- 8. 9. - 10.	Canyon Largo Unit Well Name & Number Canyon Largo Unit 250 API Well No. 30-039-30878 Field and Pool
T25N, R6W, NMPM	9. — 10.	Canyon Largo Unit 250 API Well No. 30-039-30878 Field and Pool
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T25N, R6W, NMPM		Field and Pool
T25N, R6W, NMPM		
•	THER	Rio Arriba, NM DATA Other
New Construction Non-Routine Fracturing Water Shut off Conversion to Injection		One -
		ROVD DEC 13'10
		OIL CONS. DIV.
e Title <u>Staff Regulator</u>	y Techni	DIST. 3 cian Date 12/8/10
1	X Change of Plans New Construction Non-Routine Fracturing Water Shut off Conversion to Injection approved Type 4 Master I ing. New project proposal See Title Staff Regulator	New Construction Non-Routine Fracturing Water Shut off Conversion to Injection approved Type 4 Master Plan to a ing. New project proposal is attach

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NWOCD

CONDITIONS OF APPROVAL Adhere to previously issued stipulations.





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CANYON LARGO UNIT 250P

DEVELOPMENT

Lease:						AFE #: W	AN.CDR.	8475			AFE \$: 1,210,209.88
Field Name: SAN	NAUL I			Rig: A	ztec Rig 67	73		Stat	te: NM	County: RIO ARRIBA	API #: 3003930878
			Phone:			Geophysicist:			F	Phone:	
			Phone:			Prod. Engineer:			F	Phone:	
Res. Engineer:	0171-02-42 T W	TOTAL STATE OF THE PROPERTY.	,	Phone	•		Proj. I	Field Le	ad:	F	Phone:
Primary Object	ive (Z	ones):									
Zone	 	Name									
FRR			TA (PRORATE								
RON	BLAN	CO MES	SAVERDE (PR	ORATE	ED GAS)						
Location: Surfa	ce		Datum Cod	e: NA	D 27						Straight Hole
Latitude: 36.4234	190	Longit	ude: -107.416	5792	X:		Y:			Section: 01	Range: 006W
Footage X: 2122	FEL	Foota	ge Y: 720 FSL		Elevation:	6725	(FT)	Townsh	nip: 025	N	
Tolerance:											
Location Type: Y	ear Ro	und		Start C	Date (Est.):	1/1/2011	Con	npletior	Date:	Date In C	Operation:
Formation Data:	Assu	me KB	= 6740 U	nits =	FT						
Formation Call &		******	Depth	SS	MD	Depletion	BHP	ВНТ		Remar	ke
Casing Points			(TVD in Ft)	(Ft)	(Ft)	(Yes/No)	(PSIG)	DITT	12.444		···
Surface Casing			200	6540						hole. 200' 9 5/8" 32.3 pt with 121 cuft. Circulate	
NACIMIENTO			1072	5668							
OJO ALAMO			2284	4456							
KIRTLAND			2453	4287							
FRUITLAND			2484	4256					Possible	e Gas	
PICTURED CLIFFS			2870	3870		<u> </u>	188				
LEWIS			2942	3798			· · · · · · · · · · · · · · · · · · ·				
HUERFANITO BEN	TONITI	Ε	3276	3464							
CHACRA			3735	3005					- /-		
MASSIVE CLIFF HO			4530	2210		<u> </u>	756		Gas		
UPPER CLIFF HOU	SE		4530	2210		<u> </u>			Gas		
MENEFEE			4542	2198		Ц		128			
Intermediate Casin	ig 		4692	2048						Hole. 7", 20/23 ppf, J-55 with 1057 cuft. Circulate	
POINT LOOKOUT			5087	1653							
MANCOS			5418	1322							,
UPPER GALLUP			6135	605							
GREENHORN			7022	-282							
GRANEROS			7076	-336							
TWO WELLS			7120	-380			2654		Gas		
PAGUATE			7200	-460							
UPPER CUBERO			7222	-482					Gas		
LOWER CUBERO		wa	7254	-514					Gas		
ENCINAL		-	7324	-584				180	Gas - E	st. btm perfs 7348 (-608)) base on offset well.
Total Depth			7364	-624					6-1/4" I w/ 354	nole, 4-1/2" 11.6 ppf, L-	80, LTC casing. Cement minimum of 100' inside the

Printed on: 12/8/2010 6:49:41 AM



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

CANTON LARC	30 0NII 200F		DEVELOPMENT						
BURRO CANYON	73	66 -626							
MORRISON		18 -678		Wet MRSN dur 1.2 miles away	ing completion on Johnston A Com G 17M				
Reference Well	s:	A STATE OF THE							
Reference Type	Well Name		Comments						
Production	CANYON LARGO U	NIT 239							
Production	CANYON LARGO U	NIT 250N							
Production	CANYON LARGO U	NIT 250E							
Logging Progra	m:								
Intermediate Logs	S: Log only if sho	w 🗌 GR/ILD	☐ Triple Combo						
TD Logs:	☐ Triple Combo	☐ Dipmeter	RFT Sonic	☐ VSP☐ TDT ☑ Other					
	Mudlog ~100' abo	ve GLLP. Mudi	ooger will call TD. Bo	ttom perf ~16' above TD.					
Additional Inform	ation:								
Log Type	Stage	From (Ft)	To (Et)	Tool Type/Name	Remarks				