## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Type of Work 1a. 5. Lease Number DRILL SF-078417 **Unit Reporting Number** NMNM-78413C-DK NMNM-784134-MV 1b. Type of Well 6. If Indian, All, or Tribe GAS 2. Operator 7. Unit Agreement Name ConocoPhillips San Juan 28-7 Unit 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 San Juan 28-7 Unit 9. Well Number (505) 326-9700 194F RCVD MAR7'07 Location of Well 4. 10. Field, Pool, Wildcat Blanco MV/Basin DEL CONS. DIV. Surface- Unit B (NWNE), 1015' FNL & 1495' FEL BH- Unit G (SWNE), 2000' FNL & 2200' FEL 11. Sec., Twn, Rge, Mer. (NMPM) Latitude 36° 39.0698'N  $oldsymbol{eta}$  Sec. 21, T28N, R7W Longitude 107° 34.4632'W API # 30-039-30 200 14. Distance in Miles from Nearest Town 12. County 13. State 18 miles to Blanco, NM Rio Arriba NM 15. Distance from Proposed Location to Nearest Property or Lease Line 2000' 16. Acres in Lease . Acres Assigned to Well - 320 acres E/2 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 19. **Proposed Depth** 20. Rotary or Cable Tools TVD-7297' TMD-7518' Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 6147' GL 23. **Proposed Casing and Cementing Program** MOTIFY AZTEC OCD See Operations Plan attached IN TIME TO WITNESS 24. Authorized by: Regulatory Technician PERMIT NO. APPROVED BY

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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

**)** 

WWOCD?

DRILLING OF... AS AUG.: 198 SUBJECT TO COMPLIANCE WITH A HACHED "GENERAL REQUIREMENTS".

OIL CONS. DIV. DIST. 3

District I State of New Mexico
1625 N. French Dr. Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

partment Revised October 12, 2005

Revised October 12, 2005

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505

TAMENDED REPORT

District IV 1220 5 St Francis Dr., Santa Fe, NM 87505

1000 Rio Brazos Rd., Aztec, NM 87410

District III

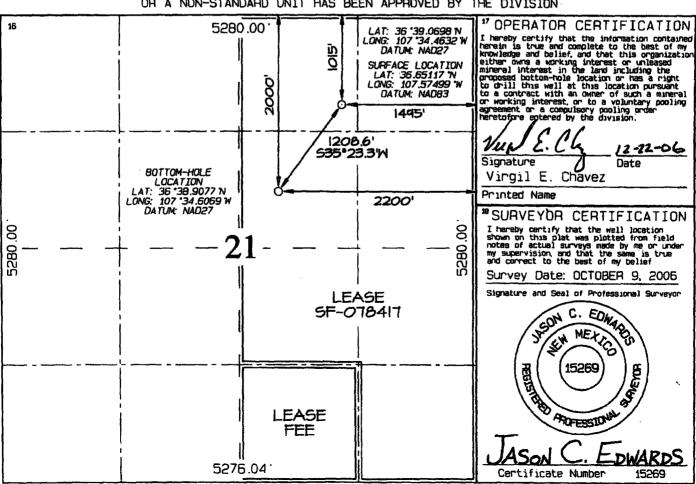
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number	*Pool Code	Pool Name			
30-039- 30200	72319 \ 71599	BLANCO MESAVERDE \ BASIN DAKOTA			
*Property Code	_	*Property Name			
31739	5,	SAN JUAN 28-7 UNIT			
'OGRIO No.		*Elevation			
217817	CON	OCOPHILLIPS COMPANY	6147		

<sup>10</sup> Surface Location

UL or lot no.	Section 21	28N	Range 7W	Lot Idn	Feet from the 1015	North/South line NORTH	Feet from the 1495	East/West line EAST	RIO ARRIBA
	<sup>11</sup> Bottom Hole Location If Different From Surface								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Hest line	County RIO
G	21	28N	7W		2000	NORTH	2200	EAST	ARRIBA
12 Deducated Acres	320.0 320.0			(MV) (DK)	<sup>19</sup> Joint or Infill	<sup>34</sup> Conso]ıdatıon Code	<sup>35</sup> Order No.		

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



Submit 3 Copies To Appropriate Distri Office	ict State of New	Mexico		Form C-103
District I	Energy, Minerals and N	Natural Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM 8824			WELL API NO.	30-039- 30200
District II 1301 W. Grand Ave., Artesia, NM 882	210 OIL CONSERVATI	ON DIVISION	5. Indicate Type of Lea	30-039-
District III	1220 South St. I		STATE	FEE X
1000 Rio Brazos Rd., Aztec, NM 874			6. State Oil & Gas Leas	
<u>District IV</u>	ŕ	20,000	SF	F-078417
1220 S. St. Francis Dr., Santa Fe, NM	1 87505 OTICES AND REPORTS ON WELLS	1	7. Lease Name or Unit A	A graamant Nama
	SALS TO DRILL OR TO DEEPEN OR PLUG		7. Lease Name of Onit 2	Agreement Name
i e	CATION FOR PERMIT" (FORM C-101) FOR S	SUCH	San Ju	an 28-7 Unit
PROPOSALS.)			0 W-11 M-1	
1. Type of Well: Oil Well Gas Well	X Other	•	8. Well Number	#194F
2. Name of Operator		· · · · · · · · · · · · · · · · · · ·	9. OGRID Number	
	ConocoPhillips Company	·····	<del></del>	217817
3. Address of Operator	STREET, FARMINGTON, NM 8740	12	10. Pool name or Wildo	at verde/Basin Dakota
4. Well Location	STREET, TARWINGTON, NW 8740	<u></u>	J Bianco Mesa	verue Dasin Dakota
Unit Letter B :	1015' feet from the No		1495' feet from the	
Section 21	Township 28N 11. Elevation (Show whether DR, RK	Rng 7W	NMPM (	County Rio Arriba
	11. Elevation (Snow whether DR, RA	•		
Pit or Below-grade Tank Application	or Closure			200'
Pit type New Drill Depth to Gro	oundwater	est fresh water well	>1000' Distance from	nearest surface water >1000
Pit Liner Thickness: 12	mil Below-Grade Tank:	Volume	bbls; Construction N	/laterial
12. Che	ck Appropriate Box to Indica	te Nature of Not	ice. Report or Other	r Data
	F INTENTION TO:		SUBSEQUENT R	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMEN	CE DRILLING OPNS.	P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/C	EMENT JOB	
OTHER:	New Drill	X OTHER:		П
13. Describe proposed or com	pleted operations. (Clearly state all p	ertinent details, and g	ive pertinent dates, includ	ling estimated date
	work). SEE RULE 1103. For Multipl	e Completions: Attac	h wellbore diagram of pro	oposed completion
or recompletion.				
New Drill, Lined:				
	struct a new drilling pit, an associated	• •		· -
	's risk ranking criteria, the new drilling			
	on file at the NMOCD office. A portion criteria. ConocoPhillips anticipates of			
be fined as per the risk ranking	eriteria. Conocor minps anticipates (	losing these pits acco	rung to the November 1,	2004 Guidelines.
74				
	on above is true and complete to the be or closed according to NMOCD guidelines			
grade tank has been/win be constructed t	cosed according to twoco guidennes	_, a general permit [A	J or an (attached) afternative	OCD-approved plan
SIGNATURE Janaul	) Koland Tr	TLE Reg	ulatory Technician	DATE2/15/2007
Type or print name  For State Use Only	Kandis Roland E-mail ad	ldress: <u>kburns@</u> l	brc-inc.com Telephon	
APPPROVED BY	TI	TLE <b>SEPUTY OR 8</b>	gas inspector, dist	DATE MAR 0 8 2007

APPPROVED BY
Conditions of Approval (if any):

# VERTICAL SCALE I"=30' CONOCOPHILLIPS COMPANY SAN JUAN 28-7 UNIT #194F 1015' FNL & 1495' FEL, SECTION 21, T28N, R7W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6147' ? ど び てい ٥ HORIZONTAL SCALE 1"=40' Ŏ ζ 6157 6|47 6147 6157 6137 6137 6157 6147 A-A B-B

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

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6137

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.



### PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 28-7 194F** 

Production	28-7 #	#134E	!		NW 21-28	8N-7W				····	
							-	18.59			
Logging Progra			J., <b>–</b>	1 CD/III	,	da Carreba					
Intermediate Log	s: L	Log only if sno	JW L	] GK/IL	)   Trip	ole Combo					
			!								
TD Logs:		Triple Combo		Dipmete	r 🔲 RFT	Sonic	□ vs	P TOT 🗹 (	Other		
		CBL	100	N about	Cananhaus			U TD			
Additional Inform	nation:	dloa to TD froi	100	, above	Greennom	- mu <u>alo</u> adei	Will Ca	H 1D.		<u>, ,,,,,</u>	
Log Type	Stag	ge	Fror	n (Ft)	To (F	t)	Tool	Type/Name	Remarks		
Comments: Loca	tion/To	ps/Logging - (	Directi	ional hol	e from (nea	r) the #49 v	vell pac	DK 28N07W21N	E2 MVNM028N007W21	NE2	
Zone	s - Dril	led from the #	49 w	ell pad. I	ok 28N07W	21NE2 MVI	VM0281	N007W21NE2			
				•							
Lease:			·	Ι		AFE #: WA	AN.CNV	1		AFE \$:	
Field Name: 28-	7		<u> </u>		ztec Rig 67		1		County: RIO ARRIBA	API #:	
Geoscientist: Gl					: (281) 29				·	none: +18	32-486-3483
Res. Engineer: J	in the second second			Phone	: (832)-48	6-2347	Proj.	Field Lead: Frans	en, Eric E. Pl	hone:	
Primary Object			<u> </u>		1440 110 (110)	- 25					
Zone		e Name	!								
R20002	-	AVERDE(R20	002)								
R20076	DAK	OTA(R20076)	<del>-</del>								
Location: Surfa	ice	Date	m C	pde: N	ND 27					Deviat	æd
Latitude: 36.651	162	Longitude:	<u> </u>		X:		Y:		Section: 21	Range:	007W
Footage X: 1495		Footage Y:			Elevation:	6147	(FT)	Township: 028N			
Tolerance:			-			***************************************					
Location: Botto	ım Hole	Date	ım C	ode: N	ND 27			Service Control		Devial	ted
Latitude: 36.648	462	Longitude:	-107.	576783	X:		Y:		Section: 21	Range:	007W
Footage X: 2200	) FEL	Footage Y:	2000	FNL	Elevation:		(FT)	Township: 028N	····		
Tolerance:		I	!		***						
Location Type: \	ear Ro	ound	-	Start	Date (Est.):		Co	mpletion Date:	Date In O	peration:	
Formation Data:	Assu	ıme KB = 616	1	Units =	· FT						
Formation Call & Casing Points			epth ) in Ft	SS t) (Ft)	Depletion (Yes/N		внт	F	Remarks		
NCMT		(	561	550							<u> </u>
DJAM		1	970	419	ı 🗆			Possible water f	lows.		
KRLD		2	061	410							
FRLD		2	410	375				Possible gas.			
PCCF			801	336	· 📮						
	LEWS 3001 3160										
HUERFANITO BE	NTONE	_	391	277	=						
CHRA			741	2420				Caer naarihk	at .		
CLFH MENF			428 590	173				Gas; possibly w Gas.	CL		
Printed on: 1/2	2/2007		J90	157				<b>G</b> 03.			
rimecu oli. 1/2	.2, 2007	O'TO'TE MIL	1								



### PROJECT PROPOSAL - New Drill / Sidetrack

**SAN JUAN 28-7 194F** 

			the state of the s		
PTLK	498	85 1176		Gas.	
GLLP	62:	16 -55		Gas. Possibly wet.	
GRHN	695	56 -795		Gas possible, highly fra	actured
GRANEROS	702	23 -862			
TWLS	706	63 -902		Gas	
PAGU	715	58 -997		Gas. Highly Fractured	
CBBO	718	83 -1022		Gas	
CBRL	72:	12 -1051			
ENCINAL	728	87 -1126			
TOTAL DEPTH DK	729	97 -1136		TD 10 ft below T/ENC	N
Reference Well	S:				
Reference Type	Well Name		Comments		i i i i i i i i i i i i i i i i i i i
Production	28-7 #194E		SE 21-28N-7W On	strike	
Production	28-7 #194		NE 21-28N-7W		
Production	28-7 #134E	1	NW 21-28N-7W		
<u> </u>					
Logging Progra	m:		and the state of	A Commence of the Commence of	the day of the
	s: Log only if show	₩ 🔲 GR/ILD	Triple Combo		
	<del></del>				
TD Logs:		Dipmeter	RFT Soni	c □ VSP □ TDT ☑ Other	
	GR_CBL Mudled to TD from	100' above G	Greenhorn - mudloga	or will call TD	
Additional Inform		! IUU ADUVE G	Teemon - mount	ier wiii Caii (12.	
		!			
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Logging - Directional hole from (near) the #49 well pad DK 28N07W21NE2 MVNM028N007W21NE2

Zones - Drilled from the #49 well pad. DK 28N07W21NE2 MVNM028N007W21NE2

Printed on: 1/22/2007 8:15:49 AM

#### SJ 28-7 #194F OPERATIONS PLAN

Well Name:

SJ 28-7 #194F

Objective:

Mesa Verde/Dakota

Location:

Rio Arriba NM

Elevation:

6147'

**Bottom Hole Coordinates/Footages** 

Surface Coordinates/Footages

T - 28 N R - 7 W Sec.: 21

1015' FNL

1495 FEL

Latitude:

36° 39.0697' N

Longitute: 107° 34,4629' W

T-28 N R-7W Sec.: 21

2000' FNL

2200' FEL

Latitude: 36° 38.9077' N

Longitute: 107° 34.6069' W

<u>Formation</u>	Top (TMD)	Top (TVD)	<b>Contents</b>
San Jose	0	0	
Nacimiento	0,	661'	
Ojo Alamo	2074'	1970'	aquifer
Kirtland	2172'	2061'	
Fruitland	2550'	2410'	gas
Pictured Cliffs	2973'	2801'	
Lewis	3190'	3001'	
Huerfanito Bentonite	<b>3606</b> '	3391'	
Chacra	3962'	3741'	
Massive Cliff House	4649'	4428'	gas
Menefee	4811'	4590'	gas
Massive Point Lookout	5206'	4985'	gas
Gallup	6437'	6216'	gas
Greenhorn	71 <b>7</b> 7'	6956'	gas
Graneros	7244'	7023'	
Two Wells	7284'	7063'	gas
Paguate	7379'	7158'	gas
Cubero	7404'	7183'	gas
Lower Cubero	7433'	7212'	
Encinal	7508'	7287'	
Total Depth:	7518'	<i>7297</i> ′	gas

Logging Program:

Cased Hole:

**CBL-GR** 

Cased

Open Hole:

None

TVD

Mud Program:	Interval (TMD) 0' - 200'	<u>Type</u> Spud	Weight (ppg) 8.4-9.0	<u>Vis. (s/qt)</u> 40-50	Fluid Loss (cc/30min) No control
	200' - 3891'	Non-dispersed	8.4-9.0	30-60	Less than 8
	3891' - 7297' TVD	Air/Air Mist/Nitrogen	n/a	n/a	n/a
Casing program:	Interval (TIMD)	Hole Size	Casing Size	Weight	<u>Grade</u>
	0' - 200'	12 1/4"	9 5/8"	32.3#	H-40
	200' - 3891'	8 3/4"	7"	23.0#	L-80
	3891' - 7297' TVD	6 1/4"	4 1/2"	11.6#	L-80
Tubing program:	Interval (TMD)	Hole Size	Casing Size	<u>Weight</u>	<u>Grade</u>

2 3/8"

4.7#

J-55

#### Wellhead Equipment

0' - 7297'

<u>Drilling:</u> Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2. **Surface** 

Drill to surface casing point of 200' and set 9.625" casing.

#### Intermediate

Mud drill to kick off point of 200'. At this point the well will be directionally drilled by building 3 degrees per 100' with an azimuth of 215.59 degrees. The end of the build will be at a TVD of 927.5', a TMD of 948', a reach of 144', and an inclination of 22.44 degrees. This angle and azimuth will be held to a TVD of 3162', a TMD of 3364', and a reach of 1067'. At this point the well will be drilled with a drop of 3 degrees per 100'. The end of the drop will be at a TVD of 3891', a TMD of 4112', a reach of 1211', and an angle of 0.0 degrees. 7" casing will be set at this point.

#### **Production**

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TVD of 7297' (TMD of 7518'). 4.5" casing will be set at this point.

#### Cementing

9.625" surface casing conventionally drilled: **200%** excess cement to bring cement to surface.

Run 188 cu.ft. (147 sks) Type III cement with 3% CaCl2 and 1/4 pps celloflake (1.28 sks/ cu.ft.). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" intermediate casing: 50% excess cement to bring cement to surface.

Lead with 754 cu.ft. (354 sks) Premium Lite w/ 3% CaCl2, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft3). Tail with 124 ft3 (90 sks) Type III cmt. w/ 1% CaCl2, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft3). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TQC.

4.5" production casing: **30%** excess cement to achieve 100' overlap with intermediate casing. Run 466 cu.ft. (235 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft3.)

#### **BOP and Tests**

Surface to Total Depth – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Surface to Total Depth - choke manifold (Reference Figure #2).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

#### **Additional Information:**

- No gas dedication.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.



Project: Rio Arriba, NM Site: SEC 21-T28N-R7W Well: SJ 28-7 194F

**BURLINGTON**RESOURCES

Wellbore: Wellbore #1 Plan: Plan #1 (SJ 28-7 194F/Wellbore #1)

	SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	_	
2	200.0	0.00	359.18	200.0	0.0	0.0	0.00	359.18	0.0		
3	947.9	22.44	215.59	928.9	-117.6	-84.2	3.00	215.59	144.6		
4	3363.9	22.44	215.59	3162.1	-867.4	-620.8	0.00	0.00	1066.7		
5	4111.8	0.00	0.00	3891.0	-985.0	-705.0	3.00	180.00	1211.3	CASING POINT 194F	
6	7517.8	0.00	0.00	7297.0	-985.0	-705.0	0.00	0.00	1211.3	PBHL 194F	

#### WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W Northing	Easting	Latitude	Longitude	Shape
CASING POINT 194F	3891.0	-985.0	-705.0 2055392.84	575256.85 36°	38' 54.461 N07°	34' 36.459 W	Point
PBHL 194F	7297.0	-985.0	-705.0 2055392.84	575256.85 36°	38' 54.461 N07°	34' 36.459 W	Circle (Radius: 100.0)

#### PROJECT DETAILS: Rio Arriba, NM

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico West 3003

#### WELL DETAILS: SJ 28-7 194F

**Ground Level:** 6151.0 Northing Easting Latittude Longitude 2056377.84 575961.85 36° 39' 4.183 N 107° 34' 27.775 W

