UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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RCVD MAY16'07 DIL CONS. DIV. DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEL	PEN, OR PLUG BACK
DRILL RECEIVED Type of Well 070 FARMINGTON NM	5. Lease Number NMSF-079289-A Unit Reporting Number NMNM-0784/3C-DK NMNM-0784/3A-A 6. If Indian, All. or Tribe
Operator	7. Unit Agreement Name
ConocoPhillips	San Juan 28-7 Unit
Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499	8. Farm or Lease Name
(505) 326-9700	9. Well Number #255₽
Location of Well Unit C (NENW), 1115' FnL & 2485' FWL,	10. Field, Pool, Wildcat Basin Dakota / Blanco MV
Latitude 36° 39.9247'N	11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 15, T28N, R07W, NMPM
Longitude 107° 33.6505'W	api # 30-039-2, 9980
Distance in Miles from Nearest Town	12. County 13. State Rio Arria NM
Distance from Proposed Location to Nearest Property or Lease L 1115 '	Line
Acres in Lease	17. Acres Assigned to Well DK & MV 320 W/2
Distance from Proposed Location to Nearest Well, Drlg, Compl,	or Applied for on this Lease
Proposed Depth 7355/	20. Rotary or Cable Tools Rotary
Elevations (DF, FT, GR, Etc.) 6146' GL	22. Approx. Date Work will Start
Proposed Casing and Cementing Program See Operations Plan attached	
Authorized by: <u>Authory</u> Mught Sr. Regulatory Analyst	Lo/28/06 Date
IT NO. APPROVAL	
SVED BY CALLED THE PH	ZA DATE
eological Report attached mental Assessment is attached. This format is issued in lieu of U.S. BLM Form 3160-3 B U.S.C. Section 1001, makes it a crime for any person knowingly and States any false, fictitious or fraudulent statements or presentations as to	DRUTTO CASING & CEMENT
NMOCD	דט/ק/5
	Type of Work DRILL 2005 JUN 28 FIT 4 C0 RECEIVED 070 FARMINGTON HM GAS Operator 070 FARMINGTON HM GAS Operator ConocoPhillips Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700 Location of Well Unit C (NENW), 1115' FnL & 2485' FWL, Latitude 36° 39.9247'N Longitude 107° 33.6505'W Distance in Miles from Nearest Town Distance from Proposed Location to Nearest Property or Lease 1 115' Acres in Lease Distance from Proposed Location to Nearest Well, Drig, Compl, Proposed Depth 7355' Elevations (DF, FT, GR, Etc.) 6146' GL Proposed Casing and Cementing Program See Operations Plan attached Authorized by: Sr. Regulatiory Analyst Madulecastor Madulecastor Divertor Brown is is issued in lieu of US. BLM Form 3160-3 States any false, flocitious or fraudulent statements or presentations as to NMOCD

District I PO Box 1980 , H	lobbs, NM	88241-19	80	Energ	State of N my, Minerals & Nation	Vew Mexico unal Resources Depart	ment		Revis	sed Febr	Form C-102 Luary 21, 1994
District II PO Drawer DD, District III 1000 Rio Brazo	·				PO Box	FION DIVISI 2088 87504-2088	ON	Submit to	St.	riate D ate Lea	tions on back astract Office se - 4 Copies se - 3 Copies
District IV PO Box 2088. S	ianta Fe,	NM 87504	-2088			0,004 2000				AMEND	ED REPORT
1401	I Number		WELL		ION AND A	CREAGE DED		ION PL	AT		
30-039	-290	180	72319 \			BLANCO MES			ASIN [
*Property 31739	l				Property SAN JUAN 2						11 Number 255F
'DGRID N 21781				CC	^{*Operator} NOCOPHILL	Name IPS COMPANY					levation 6146'
	··· <u></u>				¹⁰ Surface	Location					
ul or lot no. C	Section 15	Township 28N	Pange 7W	Lot Idn	Feet from the 1115	North/South Line NORTH	1	t from the 2485	East/HE		RIO ARRIBA
UL or lat no.	Section	11 Township	Bottom	Hole l	ocation I	f Different		om Surf	ace East/Ne	st june	County
2 Deducated Acres			- M\5 - M\5	(MV) (DK)	ant on Infall	^M Consolution Code	²⁵ Orde	r No.		D MAY1 CONS.	DIV.
NO ALLOW	ABLE W					ON UNTIL ALL EEN APPROVED				DIST. EN CON	
. 00 0875 5		4.62 AT: 35 39 DATUM: DATUM: ASE 7289-1	33.6505 W NAD27	15 -	264		5280.00	I hereby containe to the t Signatur Virgil Printed Projec Title Date I hereby shown on notes of my superv and correct Survey Signature	E. Ch Name E. Ch Name E. Ch Name EYOR (Certify the trisplat and seal and seal Solver	that the is true and knowledge Anovez Decrat 28 CERTI at the we was plotti veys made that the we best of m AUGUST of Profess EDWA MEXICS	15, 2005 Storial Surveyor
		; 	52	 96.60					ficate N		35269

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15269

Certificate Number

Submit 3 Copies To Appropriate District	State of New Me				
Office	State of New Me	XICO			Form C-103
District I	Energy, Minerals and Natura	d Resources			May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO.	30-039- 2	7980
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	DIVISION	5. Indicate Type of	50 057 -	<u></u>
District III	1220 South St. Franc		STATE	T FEE	
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 875		6. State Oil & Gas		
District IV	Sana PC, INN 672	.05		Lease - SF-07928	9A
1220 S. St. Francis Dr., Santa Fe, NM 87505					
1	AND REPORTS ON WELLS	***	7. Lease Name or U	nit Agreement Nar	ne
(DO NOT USE THIS FORM FOR PROPOSALS TO DIFFERENT RESERVOIR. USE "APPLICATION 1		10 A		n Juan 28-7 Unit	
PROPOSALS.)	OKTERMIT (FORMIC-101) FOR SOCH		58	n Juan 28-7 Unit	
1. Type of Well:			8. Well Number	·	
	Other			#255F	
2. Name of Operator			9. OGRID Number		
	Phillips Company			217817	
3. Address of Operator	T PARAMICTON NO COLOR		10. Pool name or W		
4. Well Location	T, FARMINGTON, NM 87402		Blar	<u>ico MV / Basin DK</u>	<u>`</u>
Unit Letter C : 111	5 feet from the North	line and	2485 feet from	n the West	line
Section 15		\overline{R} $7W$	NMPM		Rio Arriba
11. Ele	vation (Show whether DR, RKB, RT 6146' GL	; GR, etc.)			
Pit or Below-grade Tank Application	or Closure				320
Pit type New Drill Depth to Groundwate	r \$100' Distance from pearest free	h water well	>1000' Distance f	rom nearest surface w	ater <1000'
Pit Liner Thickness: 12 m	nil Below-Grade Tank: V	olume	bbls; Construct	ion Material	
12 Check An	propriate Box to Indicate N	ature of Not	ice Report or Ot	her Data	
			SUBSEQUEN		
		REMEDIAL			
			E DRILLING OPNS.	PANDA	H
PULL OR ALTER CASING		CASING/C	EMENT JOB		
OTHER: REVISED SUNDR	Y - New Drill	OTHER:			
13. Describe proposed or completed of		nt details, and g	ive pertinent dates. in	cluding estimated of	
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of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

We are constructing Drilling and workover pits as per our General plan on file with the OCD dated June 2005 and we are closing all pits as per the November 1, 2004 Guidelines.

I hereby certify that the information above is true and comple			
grade tank has been/will be constructed or closed according to NMOCD	guidelines, a ge	neral permit [X] or an (attached) alternative OC	D-approved plan .
SIGNATURE TATAL CLUST	TITLE	Sr. Regulatory Analyst	DATE <u>6/28/2006</u>
Type or print name Patsy Chugston	E-mail address:	plclugston@br-inc.com Telephone N	lo. 505-326-9518
APPPROVED BY	TITLE	BEPUTY OIL & GAS INSPECTOR, DIST.	BO MAY 1 7 2007
Conditions of Approval (if any):			

CONOCOPHILLIPS COMPANY SAN JUAN 28-7 UNIT #255F 1115' FNL & 2485' FWL, SECTION 15, T28N, R7W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6146'





PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 255F

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Lease:					AFE #:					A	FE \$:
Field Name: 28-7			Rig: H	&P 282		<u> </u>	State:	NM	County: RIO ARRIBA	A A	PI #:
Geoscientist: Glas	er, Terry J		Phone:	(832)486-2	2332	Prod.	Engineer:	Fon	enot, Jessie C	Phon	e: +1 832-486-3483
Res. Engineer: Joh	inson, Tom B.		Phone:	(832)-486-	-2347	Proj.	Field Lead:	Fran	isen, Eric E.	Phon	e:
Primary Objectiv	/e (Zones):	an a		and the set of the set	en polymary Alta Sout A		2 6 G. S.	1949-73 1940-73			and a second
Zone	Zone Name										
R20002	MESAVERDE(R20002)		· · · · · · · · · · · · · · · · · · ·	1						
R20076	DAKOTA(R200	076)									
Location: Surface		Jatum Co	de: NA	D 27	N4552						Straight Hole
Latitude: 36.66541	.0 Longitud	te: -107.56	0840	X:	97.94 278 FC C.T A.C.S.	Y:			Section: 15		Range: 7W
Footage X: 2485 F		Y: 1115 F		Elevation: 6	5146	(FT)	Township:	28N			·
Tolerance:			L			<u>``</u>					
Location Type: Yea	er Round		Start D	ate (Est.):	······································	Cor	npletion Da	ate:	Date	In Opera	
Formation Data:		6165	Units =	· · · · · · · · · · · · · · · · · · ·							
Formation Call &		Depth	SS	Depletion	BHP	1	1				
Casing Points	i	(TVD in Ft)		(Yes/No)		BHT			Remar	ks	
Surface Casing		216	5949				12-1/4 h	ole. 9	5/8" 32.3 ppf, H-40,	, STC ca	sing. Circulate cemen
NCMT		815	5350	п			to surfac	e.			
DJAM		1965	4200	Ы			Possible	water	flows.		
KRLD		2135	4030	П							
FRLD		2595	3570	ŏ			Possible	gas.			
PCCF		2865	3300	ō				-			
LEWS		3065	3100								
Intermediate Casing	1	3165	3000				8 3/4" Ho surface.	ole. 7	", 20 ppf, J-55, STC (Casing.	Circulate cement to
CHRA		3800	2365				Sundeer				
CLFH		4490	1675	ō			Gas; pos	sibly w	<i>v</i> et		
MENF		4650	1515	ā			Gas.				
PTLK		5065	1100				Gas.				
GLLP		6305	-140				Gas. Pos	•			
GRHN		7005	-840					ible, h	ighly fractured		
TWLS		7095	-930				Gas				
CBBO		7190	-1025	Ц			Gas			Cinculat	
TOTAL DEPTH DK		7355	-1190	U			of 100' in	side t	r, N-80, LTC casing. he previous casing st I with GR to surface.		te cement a minimum o open hole logs.
Reference Wells	State State	ò-haithór XH	net syrag	d have			Service in		e de la compañía de l	i an air an a	
Reference Type	Well Name		-	Comment	8						
				upan of them				anana ana a			
Logging Program	and the second		1,250,25		k Dener			intero-		1. A. A. A. A.	以高品合化。算書語者。自由
Intermediate Logs:	Log only i	if show	GR/ILD		e Combo			-			
TD Logs:	Triple Cor	mbo 🔲 Di	ipmeter		Sonic [тот 🗹				
							•				



PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 255F

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Additional Inform	mation:		······································			
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	······································

Comments: Location/Tops/Logging - Location is in an ACEC. See Zones tab for location comments.

Zones - In MV & DK PA. N/2 NW/4 of Section is ACEC. The requested location is on a road, off the drainage axis, near the ACEC edge. IF this will not get us ACEC relief, move (surface) location to ~750 FNL & ~2630 FEL (500' N of road & just far enough FEL to keep pad in NE/4 & out of ACEC). We will then need to kick the well to the west to a BHL ~750' FNL & ~2630' FWL.

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Comp. Strength 8 hrs 475 psi 24 hrs 1375 psi

Option 3 65 sx 18.6 bbis 104.3 cuft

Camp. Strength hrs 250 psi hrs 500 psi S S

6 hrs 8 hrs

Hole: CSG OD: CSG ID: WGT: GRADE:

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EXCESS: DEPTH:

12.25 "	SURFACE:				
9.625 "	Option 1				Option 2
9.001 *	148 sx	Con	Comp. Strength	ength	143 SX
32.3 ppf	30.8 bbls	6 hrs	520	DSI	30.8 bbls
Н-40	172.9 cuft	8 hrs	200	bsi	172.9 cuft
125 %	1.17 ft ³ /sx			bsi	1.21 ft ³ /sx
	15.8 ppg				15.6 ppg
235	4.973 gal/sx				5.29 gal/sx
	Ctass G Cement				Standard Cement
	+ 3% S001 Calcium Chloride	hloride			+ 3% Calcium Chloride
	+ 0.25 lb/sx D029 Cellophane Flakes	ophane Flak	s		+ 0.25 lb/sx Flocele
	INTERMEDIATE LEAD: Option 1				Option 2
	333 sx	ອົ	Comp. Strength	ength	348 sx
	161.1 bbts	9 hrs	8	psi	161.1 bbls
	904.7 cuft	48 hrs	525	İS	904.7 cuft
8.75 -	2.72 ft ³ /sx				2.60 ft ³ /sx

Type I-II Ready Mix

+ 20% Fly Ash

7.41 gal/sx

14.5 ppg

1.61 ft³/sx

ugth	bai Dai	Ł					
Comp. Strength	100	2					
Con	3 hrs 24 hrs						
Option 3 344 sx	161.1 bbls 904 7 대한	2.63 ft ³ /sx	11.7 ppg 15.02 colicy	Class G Cement	+ 3% D079 Extender	+ 0.20% D046 Antifoam	+ 1.0 lb/bbl CemNet
Comp. Strength	8	5 2 2 2 2 3					
Comp	47 hrs 50 thes 350	<u>الا</u>					

1:47 hrs 50 12 hrs 350 24 hrs 450

Type III Ashgrove Cement + 30 Ib/sx San Juan Poz

11.5 ppg 14.62 gal/sx

+ 3% Bentonite + 5.0 lb/sx Phenoseal

+ 0.20% D046 Antifoam

Class G Cement + 3% D079 Extender + 10 lb/sx Phenoseal

20 ppf J-55 ppf 150 %

WGT: GRADE: EXCESS:

633

TAIL:

DEPTH:

11.7 ppg 15.74 gal/sx

8.75 -7 -6.456 -

HOLE: CSG OD: CSG ID:

REAL PROPERTY

INTERMEDIATE TAIL: Option 1 3165

	1	ě	1
189 SX	50	Comp. Strength	Ē
44.1 bbls	3:53	200	30
247.5 cuft	8:22	1000	is d
1.31 ft ³ /sx	24 hrs	3170	ps.
13.5 ppg	48 hrs	5399	S
5.317 gal/sx			
50/50 Poz: Class G Cement	sment		
+ 0.25 lb/sx D029 Cellophane Flakes	ophane Flak	Se	
+ 3% S001 Calcium Chloride	hioride		
+ 2% D020 Bentonite			
 + 1.5 lb/sx D024 Gilsonite Extender 	nite Extender		
+ 0.1% D046 Antifoamer	ef		
+ 6 lb/sx Phenoseal			
RODUCTION:			
Option 1			
464 SX	COIL	Comp. Strength	ngh D
119.1 bbls	7 hrs	500	psi
668.5 cuft	24 hrs 2100	2100	psi

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11.6 ppf N-80 50 %

7355

DEPTH:

6.25 ° 4.5 ° 4 -

HOLE: CSG OD: WGT: GRADE: EXCESS:

/ hrs 500 24 hrs 2100 13.0 ppg 6.47 gal/sx 1.44 ft³/sx 119.1 DDIS 668.5 cuft

50/50 Poz: Class G Cement

+ 0.25 lb/sx D029 Cellophane Flakes + 3% D020 Bentonite

+ 1.0 lb/sx D024 Gilsonite Extender

+ 0.25% D167 Fluid Loss + 0.25% D065 Dispersant

+ 3.5 lb/sx Phenoseal

+ 0.1% D800 Retarder + 0.1% D046 Antifoamer + 3.5 Ib/sx Phenoseal

50 psi 500 psi 2300 psi 2300 psi Comp. Strength 12 hrs 13:29 24 hrs + 0.1% HR-5 Retarder + 0.8% Halad-9 Fluid Loss Additive 9:32 + 0.2% CFR-3 Friction Reducer 50/50 Poz: Standard Cement 13.1 ppg 6.55 gal/sx **461 sx** 119.1 bbls 1.45 ft³/sx + 3% Bentonite 668.5 cuft Option 2

Comp. Strength 24 hrs 1850 psi 48 hrs 3411 psi 2% D020 Bentonite
5.0 lb/sx D024 Gilsontite Extender
2% S001 Calcium Chloride
0.1% D046 Antificamer
0.15% D065 Dispersant 50/50 Poz: Class G Cement 13.5 ppg 5.255 gal/sx Option 3 193 sx 44.1 bbls 247.5 cuft 1.28 ft³/sx

50 psi 500 psi 1250 psi 1819 psi

2:05 4:06

186 sx 44.1 bbls 247.5 cuft 1.33 ft³/sx

Option 2

12 hrs 24hrs

50/50 Poz: Standard Cement

5.52 gal/sx

13.5 ppg

+ 2% Bentonite + 6.0 lb/sx Phenoseal

Comp. Strength

+ 1.0 lb/bbl CemNet

San Juan 28-7 #255F

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TOPSET FRUITLAND COAL Wells: (topset casing above coal to prepare for cavitation/DO/UR)

Dritting Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

CASE & FRAC FRUITLAND COAL Wells: (casing set below coal to prepare for frac completion)

Drilling Mud Program:

Surface: spud mud

Production: fresh water mud with bentonite and polymer as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Production: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale

MESA VERDE Wells:

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist drilling media with feamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately

DAKOTA Wells:

Drilling Mud Program:

Surface: soud mud

Intermediate: fresh water mud with bentonite and polymer as needed

Below Intermediate: air/mist/nitrogen drilling media with foamer, polymer, & corrosion inhibitor as needed

Centralizer Program:

Surface: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 3rd, & 4th joints Intermediate: centralizers placed 10' above the shoe latched over a stop collar and at the top of the 2nd, 4th, 6th, 8th, & 10th joints

Turbolizers placed one per joint from the top of the Ojo Alamo to the top of the Kirtland Shale Below Intermediate: no centralizers used in air holes. In mud holes centralizers are spaced out appropriately



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use



A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head 'A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A est plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure est) for 10 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed; and the 9-5/8" saing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 ninutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory equirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" ole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

addition to the equipment in the above diagram the following equipment will comprise the BOP system: