DIST. 3

Fonn 3160-3 (February 2005) I INFEED STATE	s 2005 AUG 19 AM	10 10	FORMAPPRO OMB No. 1004 Expires March	-0137
DEPARTMENTOFTHE	INTERIOR		5, Lease Serial No.	
BUREAU OF LAND MAN	INTERIOR VAGEMENT RECEIVED		1-149-IND	-7971
APPLICATION FOR PERMIT TO	DRII O TOR REPRITER TO	MM H	6. If Indian, Allotee or Tri	be Name
AT LIGATION FOR TENIER TO	· · · · · · · · · · · · · · · · · · ·		Navajo Triba	<del>d Trust -</del> All e
Ia. Type of work: DRILL REENI	ER		7. If Unit or CA Agreement	Name and No.
Ib. Type of Well: Oil Well Gas Well Other	Single Zone Mul	tiple Zone	8. Lease Name and Well N Mudge Fede	
2. Name of Operator ConocoPhillips Company			9. API Well No.	3290
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explor	atory
4001 Penbrook, Odessa, TX 79762	432-368-1230		Basin Fruitlar	nd Coal
4. Location of Well (Report location clearly and in accordance with any	State requirements, *)		I 1. Sec., T. R. M. or Blk. and	Survey or Area
At surface NENE 1145 FNL - 690 At proposed prod. zone	) FEL		Sec. 31, T26N, R11V	W NMPM
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
14. Distance in finites and direction from pearest flown or post office.			San Juan	NM
15, Distance from proposed* location to nearest	16. No. of acres in lease	17. Spacin	g Unit dedicated to this well	
propery or lease line, ft. (Also to nearest drig, unit line, if any)	2039.23 acres		N/2 319	
<ol> <li>Distance from proposed location* to nearest well, drilling, completed,</li> </ol>	19. Proposed Depth	20, BLM/I	BIA Bond No. on file	
applied for, on this lease, ft.	1396'			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6203' GL	22 Approximate date work will sta	at*	23. Estimated duration	
	24. Attachments	•		
The following, completed in accordance with the requirements of Onsho	ra Oil and Goe Order No. 1 must be	attached to thi	e frym:	

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the

25. Signat/ûre	Name (Printed/Typed)	. Date
Planer ( kon	Peggy James	8/12/2005
Title Sr. Associate		· · · · · · · · · · · · · · · · · · ·
Approved by (Signature) Manuaea Cr	Name (Printed/Typed)	Date 5/22/07
Title AFM	Office	
Application approval does not warrant of certify that the applic	ant holds legal orequitable title to those rights in the subject k	ease which would entitle the applicant to

conduct operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its juris iction.

\*(Instructions on page 2)

ConocoPhillips Company proposes to drill a vertical wellbore to the Basin Fruitland Coal formation. This well will and equipped in accordance with the attachments submited herewith. This application is for APD/ROW.

ConocoPhillips will use mudloggers to prevent us from accessing the Pictured Cliffs formation.

This well does not require HPA notification

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOCD 06-08.07

## RCVD MAY23'07 OIL CONS. DIV. DIST. 3

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies OIL CONSERVATION DIVISION PO Box 208 Santa Fe, NM 87504-2088 RECEIVED

AMENDED REPORT

Well Number

District IV PO Box 2088, Santa Fe, NM 87504-2088

API Number

Property Code

Pool Code

71629

070 FARMINGTON N团

Pool Name

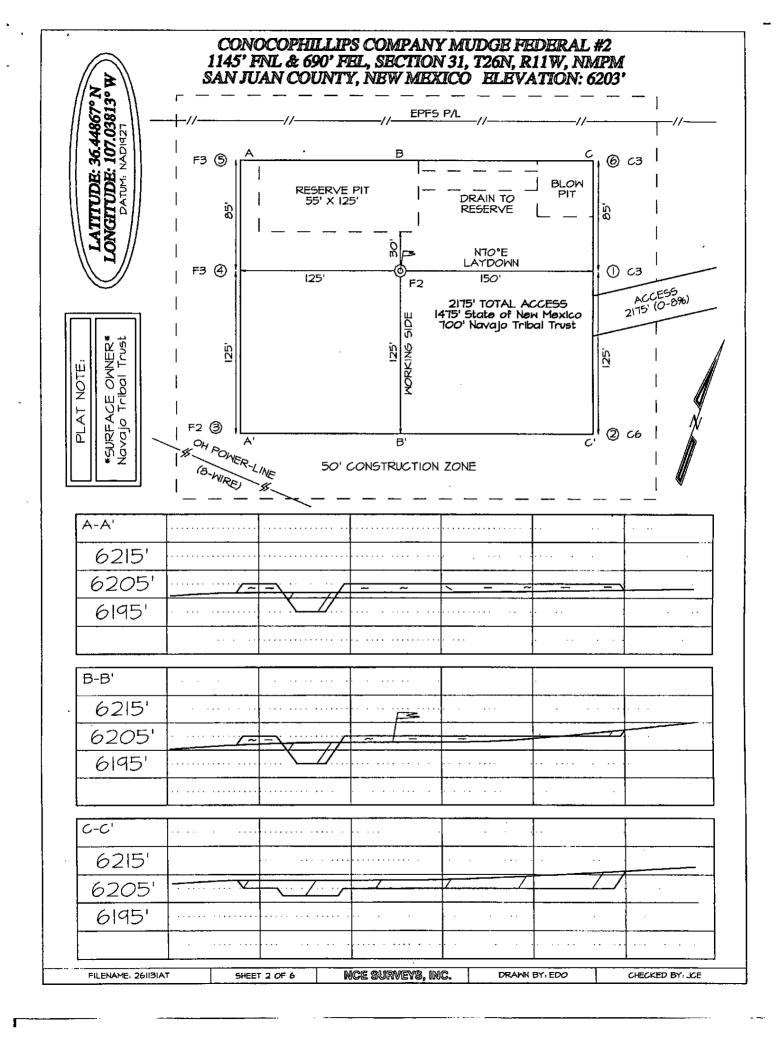
BASIN FRUITLAND COAL

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

Property Name

ł	3158	9		MUDGE F				ł	2					
	'OGRID					*Operator Name						Elevation		
	2178:	17	•		C0	DNOCOPHILL:	IPS COMPANY		6203					
	•					<sup>10</sup> Surface	•							
UL.	or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fe	set from the .	East/He	est line	County		
	Α	31	26N	11W		1145	NORTH		690	EΑ	ST	SAN JUAN		
٠	<del></del>		11 E	ottom	Hole L	ocation I	f Different	Fr	om Surf	ace				
u	or lot no.	Section	Township	Range	Łot Idn	Feet from the	North/South line	Fe	et from the	East/We	est line	County		
ļ												<u></u> _		
12 De	dicated Acres	319	ACT	es – N	/2	<sup>13</sup> Joint or Infill	<sup>™</sup> Consolidation Code	<sup>25</sup> Orde	er No.		· · · · · · · · · · · · · · · · · · ·	<del>"</del>		
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	O ALLOW	ABLE W	ILL BE A OR A	ASSIGNEL NON-ST	D TO TH 'ANDARD	IS COMPLETI UNIT HAS BE	ON UNTIL ALL EEN APPROVED	INT	ERESTS H	AVE BE	EN CON	SOL IDATED		
16			<del>//</del>				#		1		CEDIT	CICATION		
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5280.00					21		1.0		shown on t	his plat of	was plotted	l location J from field		
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<u> </u>					1		İ		Survey	Date: 0	JANUARY	19, 2005		
1	LOT	r			l		<u> </u>		Signature	and Seal (	of Professi	ional Surveyor		
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	1315.3	38'	131	10.10	1	2620	0.20		Certif:	cate Nu		15269		

Submit 3 Copies To Appropriate District Office	State of	of New Me	exico	Fonn C- 1 0			
District I	Energy, Minerals and Natural Resources			WELL AP	May 27, 2004		
1625 N. French Dr., Hobbs, NM 88240 District 11	OIL CONSE	D እ.7 ለ ጥነረገእነ	DIVICION	WELL AI	30-045-33290		
1301 W. Grand Ave., Artesia, NM 882 1 0 District III		ith St. Frai		I.	Type of Lease		
I 000 Rio Brazos Rd., Aztec, NM 8741 0 District IV		Fe, NM 87		STA	ATE FEE l & Gas Lease No.		
1220 S. St. Francis Dr., Santa I e, NM		,		o. State Or	i de Gas Lease Ivo.		
	ICES AND REPORTS			7. Lease N	ame or Unit Agreement Name		
(DO NOT USE THIS FORM FOR PROPODIFFERENT RESERVOIR. USE "APPLI	SALS TO DRILL OR TO DE CATION FOR PERMIT" (FO	EEPEN OR PLI DRM C-101) FO	UG BACK TO A OR SUCH		MUDGE EEDERAL		
PROPOSALS.)		,		8. Well Nu	MUDGE FEDERAL mber		
1. Type of Well: Oil Well 2. Name of Operator	Gas Well Other			9. OGRID	Number		
Cone	coPhillips Company				217817		
3. Address of Operator	Penbrook, Odessa, TX 7	79762		I 0. Pool na	ame or Wildcat		
4. Well Location		<del> </del>			<u></u>		
Unit Letter A	1145 feet from th	e NORT	H line and	690 f	eet from the EAST line		
Section 31	Township	26N Ra	inge 11W	NMPM	SAN JUAN County		
	I 1. Elevation (Show	whether DR,		•			
Pit or Below -grade Tank Application	Closure	. 020					
	vater 50-100' Distance from 1	nearest fresh w	rater well >1000'	Distance	from nearest surface water >1000'		
Liner Thickness: mil	Below-Grade Tank: V	Volume	bb1s; Con	struction Mate	rial		
12. Check	Appropriate Box to I	Indicate Na	ature of Notice, I	Report or C	Other Data		
NOTICE OF IN	NTENTION TO:		Subs	SEQUENT	REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDO	)N 🔲	REMEDIAL WORK		☐ ALTERING CASING ☐		
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DRIL		. PANDA 🔲		
PULL OR ALTER CASING	MULTIPLE COMPL	<u>                                     </u>	CASING/CEMENT	JOB			
OTHER:			OTHER:				
					at dates, including estimated date diagram of proposed completion		
or recompletion.	ork). SEE ROLE I 1 05.	. roi wiuitipi	e Completions. Atta	ich Mendole	diagram of proposed completion		
The pit will be constructed	and closed in accordance	e with Rule	50 and as per COPC	June 2005 G	eneral Pit Plan on file		
with the NMOCD See the					e proposed wellhead.		
The drill pit will be lined.	The drill pit will be close	d after the w	ell has been comple	ted			
T1 1	1 !	. 4. 4	- F 1	J L - 1:- C T E	4h		
I hereby certify that the information a grade tank has been/will be constructed or	closed according to NMOCI	D guidelines	of thy knowledge and, a general permit $\square$ o	or an (attached)	alternative OCD-approved plan		
SIGNATURE Deggy Joy	Peggy James	TITLE Sr.	Associate		DATE 8/12/2005		
Type or print name		E-mail add	dress:		Telephone No.		
For State Use Only	$\mathcal{L}$	w.r wa	<del></del>		2 010 pm 0110 110 1		
10 1	Th	many Africa	ITV All 0 040 Mon	************************	DATE JUN 0 8 2007		
APPROVED BY: Conditions of Approval (if any):		_TTTLE/cru	TY OIL & GAS INSP	<u> </u>	DATE		





## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

#### **MUDGE FED 2**

Lease:					AFE #:						AFE \$:
Field Name: WEST			Rig:				State:	NM	County: SAN JU	AN	API #:
Geoscientist: Glas	er, Terry J		Phone	: (832)486-2	332	Prod.	Engineer:	Skir	nner, Steve E	Ph	one: 832 486-2651
Res. Engineer: He	nsley, Dan E		Phone	: 832-486-23	85	Proj. F	ield Lead	:		Ph	one:
Primary Objecti	ve (Zones):				a little fil				· 图集 (4.5)		
Zone	Zone Name	)									
R20001	FRUITLAND	COAL(R2000	I)								
		*									
Location: Surface			**************************************								Straight Hole
Latitude: 36.45	Longit	ude: -108.04		X:		Y:			Section: 31		Range: 11W
Footage X: 690 FE	L. Footag	je Y: 1145 FN	IL	Elevation: 62	203	(FT)	Fownship:	26N			
Tolerance:			•				-				
Location Type: Yea	ar Round		Start D	Date (Est.):		Con	pletion D	ate:	D	ate In Op	eration:
Formation Data:	Assume KB	= 6216 L	Jnits =	FT							
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	ВНТ			Re	marks	
OJAM		191	6025			-	Possible	water	flows.		
KRLD		281	5935								
Surface Casing	•	500	5716				12-1/4 he to surface	ole. 9	5/8" 32.3 ppf, H	-40, STC	casing. Circulate cement
FRLD		1156	5060				Possible				_
PCCF		1236	4980			42. + 29.	Possible (	gas.			
Total Depth		1396	4820				7 7/8" ho to surface		1/2", 17 ppf, J-5	5, LTC Ca	sing. Circulate cement
Reference Wells	1						to surrac	C.			
Reference Type	Well Name			Comments	•				ACCOUNTS TO THE STATE OF THE ST		
Logging Program					Marketta		and the				
Intermediate Logs:	Log only	y if snow [	GR/ILD	)   Iriple	Combo		••		<del></del>		
				_							
TD Logs:	☐ Triple C	ombo 🔲 Dii	ometer	RFT	] Sonic [	VSP	<b>☑</b> TDT	,			
										<del></del>	
Additional Informat	tion:	<u> </u>									
Log Type	Stage	From	(Ft)	To (Ft)		Tool 7	ype/Nam	16	Remarl	 ks	

Comments: Zones - Drilling Mud Program:

Surface: spud mud

Intermediate: 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
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

### Mudge Federal #2 Halliburton Cementing Program

#### **SURFACE CASING:**

12 25 "	
<u> </u>	0 Diam   0 004 8
	Casing Inside Diam. 9.001
32.3 ppf	
H-40	
500	
1.21 cuft/sk	:
15.6 lb/gal	
125 %	
298 sx	
	1.21 cuft/sk 15.6 lb/gal 125 %

SHOE

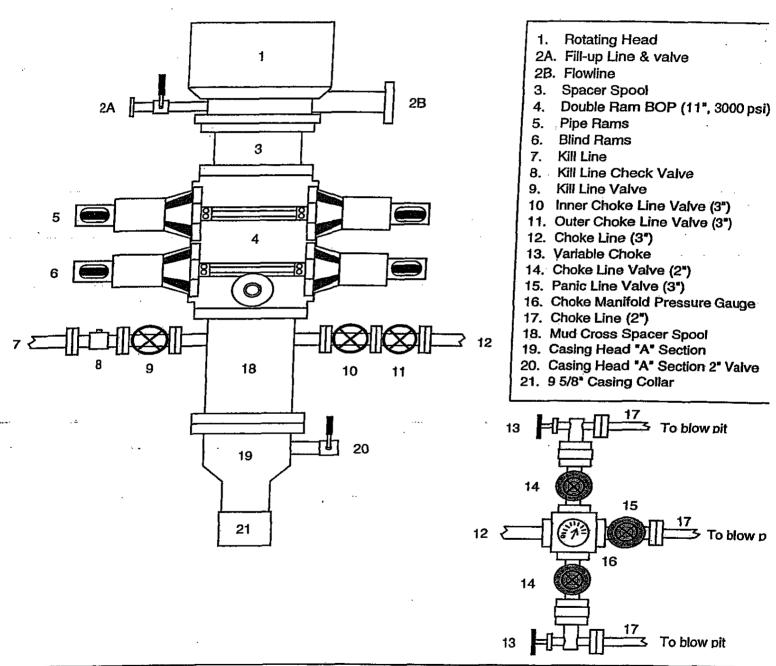
500 ', 9.625 ", 32.3 ppf, H-40 STC

#### INTERMEDIATE CASING:

Drill Bit Diameter	7.875	]"	<del></del>
Casing Outside Diameter	5.5	<b> </b> "	Casing Inside Diam. 4.892 "
Casing Weight	17	ppf	
Casing Grade	J-55	}	
Shoe Depth	1396	<b>j</b> '	
Lead Cement Yield	2.91	cuft/sk	•
Lead Cement Density	11.5	lb/gal	
Lead Cement Excess	160	%	
Tail Cement Length	300	<b>)</b> '	
Tail Cement Yield	1.33	cuft/sk	
Tail Cement Density	13.5	lb/gal	
Tail Cement Excess	160	%	
Lead Cement Required	1139	sx	
Tail Cement Required	102	sx	

SHOE 1396', 5.5", 17 ppf, J-55 LTC

## BLOWOUT PREVENTER ARRANGEMENT & PROGRAM For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



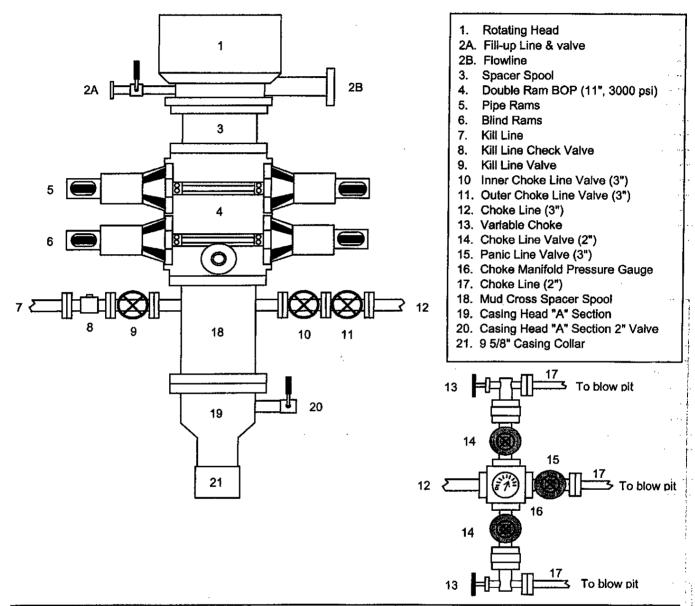
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. It test plug will be set in the wellhead and the pipe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

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

1 Honer Kelly cock Valve with handle

# Mudge Federal #2

#### **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**



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 test 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 test) 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" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then a 7-7/8" hole will be drilled to production casing point and 5 1/2" intermediate casing will be run and cemented.

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

Revision Date: April 28, 2005

Property:	<u>N</u>	MUDGE FEI	DERAL	_	Well #	·	2		
Surface Loc	ation:								
Unit: A	Sectio	n: 31 To	wnship:	26N	_Range:	11W			
County: SA	AN JUAI	N		State	: New Mo	exico			
Kantage	1145	from the	NORTH	line	690	from the	EAST	line.	

#### **CATHODIC PROTECTION**

ConocoPhillips (COP) proposes to drill a cathodic protection deep well groundbed for the subject well. COP will drill a hole vertically at the surface large enough to accommodate 20 feet of 8 inch diameter PVC pipe for surface casing to assist in further drilling and loading. Casing may be cemented in place for stability if needed. COP will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on the existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.