Form 31'60-3 (August 1999)

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

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

Lease Serial No.

		SF-078998	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	,
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name	and No.
		8. Lease Name and Well No.	
lb. Type of Well: ☐ Oil Well 🔀 Gas Well ☐ Otl	ner 🔲 Single Zone 🔀 Multiple Zone	SAN JUAN 32-7 UNIT 213A	
	VICKI WESTBY Westby@conocophillips.com	9. API Well No. 30-045-32	966
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory	
/ 4001 PENBROOK ODESSA, TX 79762	Ph: 915.368.1352	BASIN FRUITLAND COAL	
4. Location of Well (Report location clearly and in accorde	State requirements \$1,007,20	11. Sec., T., R., M., or Blk. and Sur	rvey or Area
			-
At surface SWNW 2528FNL 402FWL	for the second	Sec 17 T31N R07W Mer N	IMP
At proposed prod. zone SENE 2471FNL 457FEL		E	
44. Distance in miles and direction from nearest town or post	office*	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property or	16. No. of Acres in Lease	17. Spacing Unit dedicated to this v	
lease line, ft. (Also to nearest drig. unit line, if any)	1718.90 CAUNO	325.68- Unit 4-P-	9308
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. on file	
• • •	3673 MD 3508 TVD		
21. Elevations (Show whether DF, KB, RT, GL, etc. 6525 GL	22. Approximate date work will start	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements	of Onshore Oil and Gas Order No. 1, shall be attached to	this form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above).  5. Operator certification	ons unless covered by an existing bond formation and/or plans as may be requ	•
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352	Date 03/	15/2005
Title AGENT			
Approved by (Signapure)	Name (Printed/Typed)	Date	
AMManker a		4-1	26-05
Title AFM	Office FFO		
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	olds legal or equitable title to those rights in the subject le	ase which would entitle the applicant	to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representate		make to any department or agency of	the United
Additional Operator Remarks (see next page)			
Electronic Submiss	sion #54892 verified by the BLM Well Inform	nation System	
,		<del>-</del>	

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

HOLD C164 FOR Directional Survey

## State of New Mexico

Energy, Minerals & Natural Resources Department

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

Form C-102 Revised June 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

C) AMMENDED REPORT

Devation

6525

District...] 1625 N. French Dr., Hobbe, NM 88240 District...!!

1301 W. Grand Avenue, Arlesia, NM 88210 District III

OGRID No.

217817

1000 Rio Brazos Rd., Aziec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

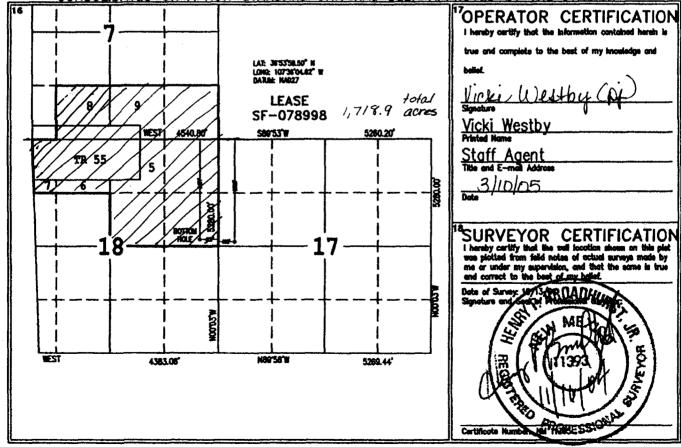
Pool Code
71629
BASIN FRUITLAND COAL (GAS)

Property Code
31329
SAN JUAN 32-7 UNIT
213A

CONOCOPHILLIPS COMPANY

<sup>10</sup>Surface Location UL or let no. Feet from the Feet from the East/West line County NORTH 31N 07W 2528 402 WEST SAN JUAN Bottom Hole Location Different From Surface Lat Idn Feet from the East/West line Ut. or let no. North/South Bne Feet from the **NORTH** 31N 07W 2471 457 **EAST** 18 SAN JUAN Н Joint or Infili Consolidation Code Corder No. R-9305 325.68

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



## **Additional Operator Remarks:**

ConocoPhillips Company proposes to drill a directional wellbore to the Basin Fruitland Coal formation. This well will be drilled and equipped in accordance with the attachments submitted herewith.

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

This well does not require HPA notification.

Submit 3 Copies To Appropriate District Office	State of New Mexico	Fonn C- 1 03
District I	Energy, Minerals and Natural Resou	rces May 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District 11		WELL API NO.
1301 W. Grand Ave., Artesia, NM 882 1 0 District III	OIL CONSERVATION DIVISION OF THE PROPERTY OF T	5. Indicate Type of Lease
I 000 Rio Brazos Rd., Aztec, NM 8741 0	1220 South St. Francis Dr.	STATE FEE
<u>District IV</u> 1220 S. St. Francis Dr., Santa I e, NM	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
87505		
	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUG BACK TO	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC	CATION FOR PERMIT" (FORM C-101) FOR SUCH	San Juan 32-7 Unit
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well Other	8. Well Number 213A
2. Name of Operator	out were defined	9. OGRID Number
2	ConocoPhillips Company	217817
3. Address of Operator		I 0. Pool name or Wildcat
	4001 Penbrook, Odessa, TX 79762	Basin Fruitland Coal
4. Well Location	252	
Unit Letter E	2528 feet from the North line	
Section 17	Township 31N Range 7W  11. Elevation (Show whether DR, RKB, RT,	
	6525	GK, etc.) GL
Pit or Below -grade Tank Application 🔀	Closure	
Pit type DRILL Depth to Groundw	ater 130' Distance from nearest fresh water well $\geq 1$	Mile Distance from nearest surface water 850'
Liner Thickness: mil	Below-Grade Tank: Volume	bb1s; Construction Material
12. Check A	appropriate Box to Indicate Nature of N	lotice, Report or Other Data
NOTICE OF IN	TENTION TO	OUDOFOLIENT DEDORT OF
NOTICE OF IN PERFORM REMEDIAL WORK □	PLUG AND ABANDON REMEDIA	SUBSEQUENT REPORT OF:  ALL WORK ALTERING CASING
TEMPORARILY ABANDON		CE DRILLING OPNS. P AND A
PULL OR ALTER CASING	I	CEMENT JOB
OTHER.	CT OTUES.	
OTHER:  13. Describe proposed or complete.	eted operations (Clearly state all pertinent det	ails, and give pertinent dates, including estimated date
of starting any proposed wo	ork). SEE RULE I 1 03. For Multiple Completi	ons: Attach wellbore diagram of proposed completion
or recompletion.	,	• • • • •
The pit will be constructed and closed in	accordance with Rule 50 and as per the Nov. 1, 20	04 Guidelines. See the attached diagram that details the
The solids left after the water has been	posed wellhead. The drill pit will be lined. The dri	ill pit will be closed after the well has been completed. proval will be obtained prior to closure of this pit.
The solids left after the water has bee	in disposed of with be sampled and MMOCD app	orovar will be obtained prior to closure of this pit.
I hereby certify that the information al grade tank has been/will be constructed or of	pove is true and complete to the best of rny know closed according to NMOCD guidelines , a general property and the second secon	ledge and belief. I further certify that any pit or belowermit  or an (attached) alternative OCD-approved plan
SIGNATURE Vicki Westby	TITLE Staff Agent	DATE 3/10/2005
Type or print name	E-mail address:	Telephone No.
For State Use Only	/// DEPUTY OIL & GA	S INSPECTOR, DIST. SE APR 29 2005
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE

CONOCOPHILLIPS COMPANY SAN JUAN 32-7 UNIT #213A 2528' FNL & 402' FWL, SECTION 17, T31N, R07W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6525' 50' CONSTRUCTION ZONE F10.9 DRAIN TO RESERVE RI OW PIT LATITUDE: 36'53'59.50" N ONGITUDE: 107'36'04.62" DATUM: NAD27 RESERVE PIT 55' X 125' \*SURFACE OWNER\* BLM PLAT NOTE: (D) ① F0.9 23 125 C" C17.8 A-A' 6535' 6525' 41111111 6515' B-B' 6535' 6525 7777111 6515 C-C' 6535' 6525 6515' FILENAME: SJ32-7 213AM.dwg SHEET 2 OF 6 CHENAULT CONSULTING INC. DRAWN BY: J. FUNK CHECKED BY: G. CHENAULT



# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 32-7 213A** 

Lease:		are commission that death of the physical plays — minimized and administration. At 1990 1990 1990 1990 1990 19			AFE #:				AFE \$:
Field Name: hPl	łILLIPS	32-7	Rig:				State: NM	County: SAN JUAN	API #:
Geoscientist: Cl				: +1 832 48	6-2377	Prod	Engineer:		hone:
Res. Engineer: F				: 486-2055			Field Lead:		hone:
Primary Object	entropy of the second second	Control Contro	110110		1.5		ricia Leda:		none.
Zone		e Name	0.000.000.000		]				
JCV		IN FRUITLAND COAL	(GAS)						
1000	BAG	INTROTEAND COAL	. (GAO)						
Location: Surfa	ce 🅍 i				34 114			Personal Property (Page	Straight Hole
Latitude: 36.90		Longitude: -107.60	)	X:		Y:		Section: 17	Range: 7W
Footage X: 402 I	FWL.	Footage Y: 2528 F	NL	Elevation: 6	525	(FT)	Township: 31N		
Tolerance:									
Location: Botto	m Hole			A TOTAL					🦡 Straight Hole
Latitude:		Longitude:		X:		Y:		Section: 18	Range: 7w
Footage X: 457 I	EL	Footage Y: 2471 FI	VL	Elevation:		(FT)	Township: 31n	<u> </u>	
Tolerance:									
Location Type:			Start D	ate (Est.):		Cor	mpletion Date:	Date In O	peration:
Formation Data:	Assu	me KB = 6538	Units =	FT					
Formation Call & Casing Points		Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	внт		Remarks	
SAN JOSE		13	6525						
Surface Casing		213	6325				12-1/4 hole. 9 to surface.	5/8" 32.3 ppf, H-40, STC	casing. Circulate cement
NCMT		1118	5420						
MALO		2298	4240				Possible water	flows.	
KRLD		2408	4130						
FRLD		3018	3520				Possible gas.		
Intermediate Casir	ng	3078	3460				8 3/4" Hole. 7' surface.	', 20 ppf, J-55, STC Casin	g. Circulate cement to
TOP COAL		3108	3430						
BASE MAIN COAL		3238	3300		200				
PC TONGUE		3308	3230						
BASE LOWEST CO.	AL	3428	3110						
PCCF		3431	3107						
Total Depth		3508	3030				6-1/4" hole pos	sibly underreamed to 9.5 C - left uncemented.	". Optional Liner: 5.5",
Reference Well	S:						13.5#, 3-33 EN	z - leit üncementeu.	
Reference Type	Well			Comments	S				
		32-7 #227							
Intermediate		32-7 #201							
Intermediate	COP S	SJ 32-7 #231A		<u> </u>					
Logging Progra	m.		188						
		og only if show	GR/ILD	Triple	Combo				
	. ب	J,						LANGE HAVE THE PARTY OF THE PAR	

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## PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

**SAN JUAN 32-7 213A** 

TD Logs:	☐ Triple	Combo Dipmeter	☐ RFT ☐ Sc	onic VSP TDT		
Additional Infor	rmation:	TD includes 80 feet the BLM's Condition sump/rathole in this formation	ns of Approval fo			
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks	

Comments: Location/Tops/Logging - Target hardline is at least 402' west of surface location at section line.

General/Work Description - To drill and complete a directional Fruitland coal well. Mud Log from intermediate casing shoe to TD will be obtained. BHL location is 457 FEL due to 860' hor. reach. NSL required?

Drilling Mud Program:

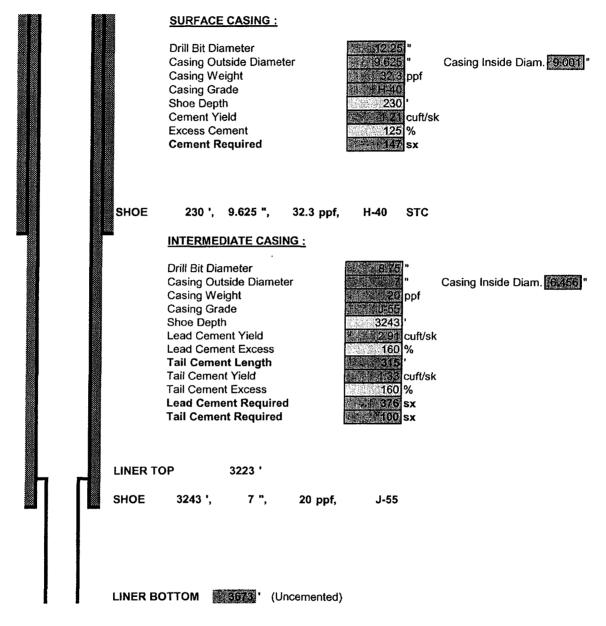
Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

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

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### San Juan 32-7 # 213A



### SAN JUAN 32-7 #213A

#### HALLIBURTON OPTION

MALLIBURTON OF HON
9-5/8 Surface Casing
Class C Standard Cement
+ 3% Calcium Chloride
+0.25 lb/sx Flocele
147 sx
1.21 cuft/sx
179.8 cuft
32.0 bbls
15.6 ppg
5.29 gal/sx

	7" Intermediate Casin	9		
	Lead Slurry			
	Standard Cement			
Cement Recipe	+ 3% Econolite (Lost			
		+ 10 lb/sx Gilsonite (Lost Circ. Additvie)		
	+ 0.25 lb/sx Flocele	(Lost Circ. Additive)		
Cement Required	376	sx		
Cement Yield	2.91	cuft/sx		
01	1093.4	cuft		
Slurry Volume	194.7	bbis		
Cement Density	11.5	ppg		
Water Required	16.88	gal/sx		

	7" Intermediate Casing	
	Tail Slurry	
	50 / 50 POZ:Standard Cement	
Cement Slurry	+ 2% Bentonite (Light Weight Additive)	
	+ 5 lbm/sk Gilsonite (Lost Circ. Additive)	
	+ 0.25 lbm/sk Flocele (lost Circ. Additive)	
	+ 2% Calcium Chloride (Accelerator)	
Cement Required	100 sx	
Cement Yield	1.33 cuft/sx	
	132.7 cuft	
Slurry Volume	23.6 bbls	
Cement Density	13.5 ppg	
Water Required	5.36 gal/sx	

### SCHLUMBERGER OPTION

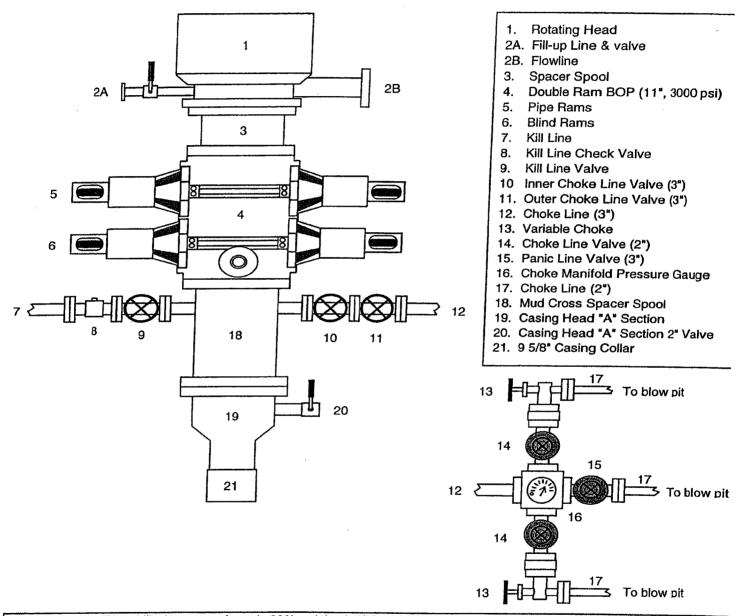
	9-5/8" Surface	Casing	
Cement Slurry	Class G		
	+ 2% S001 Calcium Chloride		
	+ 0.25 lb/sx D029 Cellophane Flakes		
Cement Volume	147	sx	
Cement Yield	1.16	cuft/sx	
Cement Volume	170.59	cuft	
Cement Density	15.8	ppg	
Water Required	4.983	gal/sx	

	7" Intermediate	Casing	
	Lead Slur	ry	
Cement Slurry Class G			
	+ 3% D079 Ex	tender	
+ 0.25 lb/sx D029 Cellophane Flakes			
	+ 0.2% D046 /	Antifoam	
Cement Volume	422	sx	
Cement Yield	2.61	cuft/sx	
Cement Volume	1100.48	cuft	
Cement Density	11.7	ppg	
Water Required	15.876	gal/sx	

	7" Intermediate	Casing			
	Tail Slurr	у			
Cement Slurry	50% POZ / 50% Class G cement				
	+ 2% D020 Bentonite				
	+ 2% S001 Ca	alcium Chloride			
+ 0.25 lb/sx D029 Cellophane Flakes					
+ 5 lb/sx Gilsonite Extender					
	+ 0.2% D046 Antifoam				
Cement Volume	100	sx			
Cement Yield 1.27 cuft/sx		cuft/sx			
Cement Volume 126.80 cuft					
Cement Density 13.5 ppg					
Water Required	5.182	gal/sx			

## **BLOWOUT PREVENTER ARRANGEMENT & PROGRAM**

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



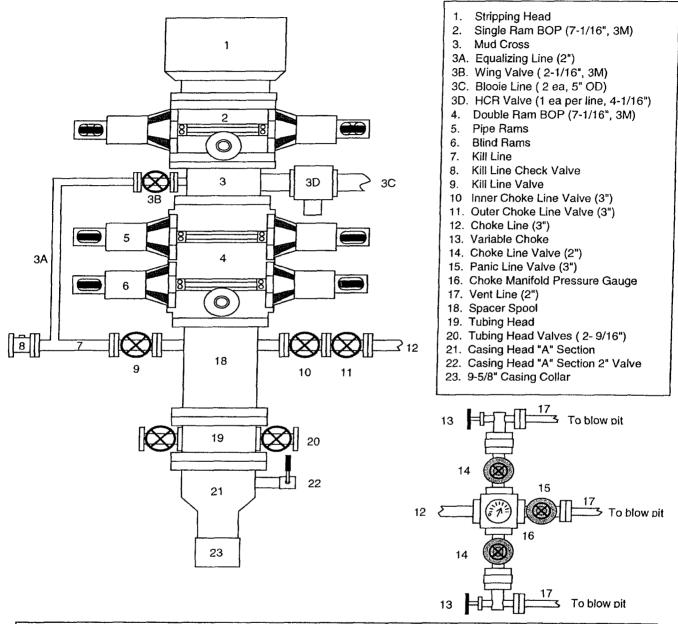
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe 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 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. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use

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

For Cavitation Program



This BOP arrangement and test program is for the cavitation program. The BOP will be installed on the tubing head. 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. The pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1800 psi (high pressure test) for 10 minutes - This test will be done with a test plug or possibly without a test plug (ie against casing). If we conduct this test without a test plug we will ensure that we have sufficient drillstring weight in the hole to exceed the upward force generated by the test.

We use a power swivel and air/mist to drill the 6-1/4" hole in our cavitation program. We do not use a kelly. In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. String floats will be used inside the drillpipe
- 2. Stab-in TIW valve for all drillstrings in use
- 3. Each blooie line is equipped with a hydraulically controlled valve (HCR valve).

Property: SAN JUAN 32-7 UNIT		JNIT	Well #: _	213A	213A	
Surface Locat	ion:					
Unit: E	Section: 17 Town	ship: 31N	_Range:	7W		
County: SAN	JUAN	State	: New Mexic	co		
Engtage 7	528 from the	North line	402 <b>f</b> w	com tha West	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.