

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD APR18'07
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 MAR 30 PM 2:45

1a. Type of Work DRILL	5. Lease Number SF-078995	
1b. Type of Well GAS	Unit Reporting Number	
2. Operator ConocoPhillips	6. If Indian, All. or Tribe	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name San Juan 31-6 Unit	
4. Location of Well Surf: Unit P (SESE), 535' FSL & 40' FEL, BH: Unit I (NESE), 1750' FSL & 700 FEL SURF: Latitude 36° 51.0146 N Longitude 107° 29.5874 W BH: Latitude 36° 51.2147 N Longitude 107° 29.8233 W	8. Farm or Lease Name 9. Well Number #224A 10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 31, T31N, R6W API # 30-039-30237	
14. Distance in Miles from Nearest Town 49 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 40'	17. Acres Assigned to Well 320 - (E/2)	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1540' from San Juan 31-6 #10	
19. Proposed Depth TMD 3861'/TVD 3453'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6439' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	HOLD C104 FOR <u>directional survey</u>	
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	3-30-07 Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE ACM DATE 4/17/07

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.

Example Master Plan Type 2

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

4/19/07
NMOC

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RCVD APR18'07

OIL CONS. DIV.

DIST. 3

Form C-102

Revised October 12, 2005

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240State of New Mexico
Energy, Minerals & Natural Resources DepartmentDISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDISTRICT III
1000 Rio Brazos Rd., Asteo, N.M. 87410DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039- 30237	Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 31328	Property Name SAN JUAN 31-6 UNIT	Well Number 224A
UGRD No. 217817	Operator Name CONOCOPHILLIPS COMPANY	Elevation 8439'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	31	31-N	6-W		535'	SOUTH	40'	EAST	RIO ARRIBA

11 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/West line	County
I	31	31-N	6-W		1750'	SOUTH	700'	EAST	RIO ARRIBA
Dedicated Acres 320 acres E2			Joint or Infill		Consolidation Code		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

16 SF-078995 31 LAT: 36°51'21.47" N. LONG: 107°29'52.33" W. NAD 1927 LAT: 36°53'58.5" N. LONG: 107°49'7.66" W. NAD 1983 BOTTOM HOLE LAT: 36°51'01.46" N. LONG: 107°29'58.74" W. NAD 1927 LAT: 36°50'24.8" N. LONG: 107°49'53.95" W. NAD 1983 SURFACE Bottom Hole 700' 1750' 40' 535' Surface N 00° 00' 00" W 2540.0'		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this information either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Tracey N. Monroe</i> Signature Tracey N. Monroe Printed Name Regulatory Assistant
		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 10-12-06 Date of Survey <i>[Signature]</i> Signature and Seal of State Surveyor NEW MEXICO 15703 <i>[Signature]</i> Certificate Number 15703

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

May 27, 2004

WELL API NO.

30-039-30237

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

Federal Lease SF-078995

7. Lease Name or Unit Agreement Name

San Juan 31-6

8. Well Number

#224A

9. OGRID Number

217817

10. Pool name or Wildcat

Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

ConocoPhillips

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter P : 535' feet from the South line and 40' feet from the East line
Section 31 Township 31N Rng 6W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6439'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

>100

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

>1000

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK

☐

PLUG AND ABANDON

☐

TEMPORARILY ABANDON

☐

CHANGE PLANS

☐

PULL OR ALTER CASING

☐

MULTIPLE COMPL

☐

OTHER:

New Drill

☒

OTHER:

☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK

☐

COMMENCE DRILLING OPNS.

☐

CASING/CEMENT JOB

☐

ALTERING CASING

☐

P AND A

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

ConocoPhillips proposes to construct a new drilling pit and an associated vent/flare pit. Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit will be a lined pit as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

3-30-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. 4

DATE

APR 19 2007

Conditions of Approval (if any):

SAN JUAN 31-6 UNIT 224A, 535' FSL & 40' FEL
SECTION 31, T-31- N, R-6-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6439', DATE: AUGUST 9, 2006

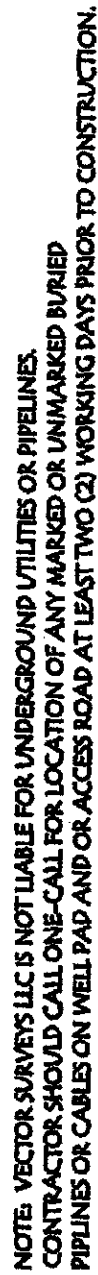
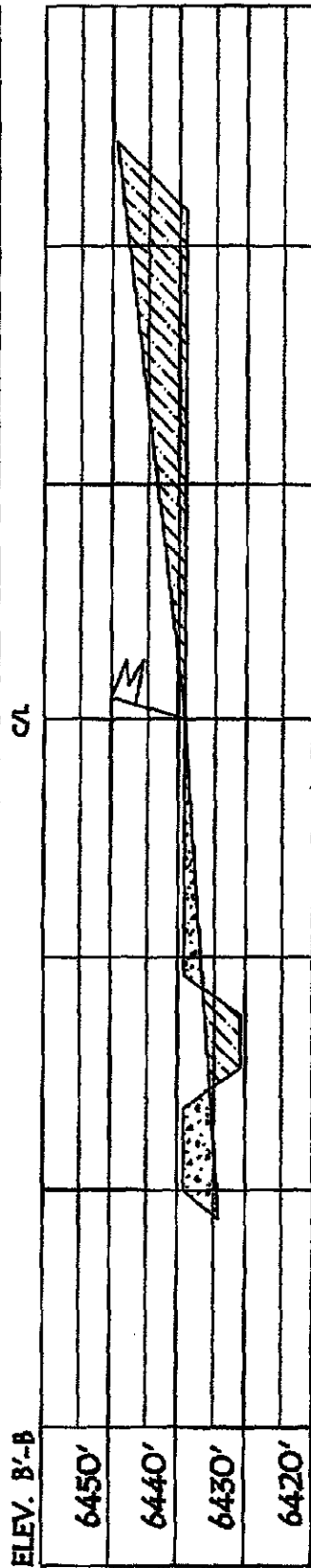


NOTE: VECTOR SERVICES LLC IS NOT LIABLE FOR UNDERSOUNDING UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

360' X 500' = 4.13 ACRES

LATITUDE: 36° 51.0146'N LONGITUDE: 107° 29.6874'W NAD27

SAN JUAN 31-6 UNIT 224A, 535' FSL & 40' FEL
SECTION 31, T-31- N, R-6-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6439', DATE: AUGUST 9 2006



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 224A

DEVELOPMENT

Lease:		AFE #:		AFE \$: 664,806.44	
Field Name: 31-6		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer: Bergman, Pat W.	
Res. Engineer: Schlabaugh, Jim L		Phone: 505-326-9788		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20001	FRUITLAND COAL(R20001)

Location: Surface Datum Code: NAD 27 Deviated

Latitude: 36.850243	Longitude: -107.494790	X: 599053.00	Y: 2128925.00	Section: 31	Range: 006W
Footage X: 40 FEL	Footage Y: 535 FSL	Elevation: 6439	(FT)	Township: 031N	
Tolerance:					

Location: Bottom Hole Datum Code: NAD 27 Deviated

Latitude: 36.853579	Longitude: -107.497055	X: 598386.00	Y: 2130137.00	Section: 31	Range: 006W
Footage X: 700 FEL	Footage Y: 1750 FSL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6453	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	213	6240	☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Circulate cement to surface. Cement with 153 cuft.
NCMT	1216	5237	☐			
OJAM	2551	3902	☐			Possible water flows.
KRLD	2720	3733	☐			
FRLD	2984	3469	☐			Possible gas.
Intermediate Casing	3084	3369	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface. Cement with 788 cuft.
BASE MAIN COAL	3248	3205	☐	200		
PC TONGUE	3258	3195	☐			
BASE LOWEST COAL	3373	3080	☐			
PCCF	3378	3075	☐			
Total Depth	3453	3000	☐			6-1/4" hole possibly underreamed to 9.5". Optional liner: 5.5", 15.5#, J-55 LTC - left uncemented

Reference Wells:

Reference Type	Well Name	Comments
Intermediate	SJ 31-6 5	31-31N-6W-SW, KB = 6220



PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 224A

DEVELOPMENT

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

CBL/GR

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - This well will target the inter-tongue coal. If it is not encountered, the td will be shortened to 20 feet below the projected base of the lower coal package. Reach = 1385', Azimuth = 338 degrees

General/Work Description - FC-DIRECTIONAL DRILL

ConocoPhillips

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 31-6 #224A
Project:	San Juan Basin	TVD Reference:	WELL @ 6454.0ft (Original Well Elev)
Site:	FC	MD Reference:	WELL @ 6454.0ft (Original Well Elev)
Well:	SJ 31-6 #224A	North Reference:	True
Wellbore:	SJ 31-6 #224A	Survey Calculation Method:	Minimum Curvature
Design:	SJ 31-6 #224A	Database:	EDM Central Planning

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(d)	(d)	(ft)	ft	ft	(ft)	(ft)		
- Shape									
SJ 31-6 #224A - PCP	0.00	0.00	3,084.0	1,215.0	-660.0	2,130,137.98	598,389.26	36° 51' 12.890" N	107° 29' 49.364" W
- plan hits target									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(d)	(d)	
1,280.0	1,216.0	Nacimiento		0.00		
2,945.9	2,551.0	Ojo Alamo		0.00		
3,124.0	2,720.0	Kirtland		0.00		
3,391.9	2,984.0	Fruitland Coal		0.00		
	3,248.0	Base Main Coal		0.00		
	3,258.0	PC Tongue		0.00		
	3,373.0	Base Lowest Coal		0.00		
	3,378.0	Pictured Cliffs		0.00		
	3,453.0	TD		0.00		

Checked By: _____	Approved By: _____	Date: _____
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