

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 11 2010

BLM FEB 2 10
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK BLM Land Management
Farmington Field Office

1a. Type of Work DRILL	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	5. Lease Number SF-079004 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name San Juan 32-8 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number 21C	
4. Location of Well Surf: Unit P(SESE), 1155' FSL & 1050' FEL Bottomhole: Unit J(NWSE), 1930' FSL & 1930' FEL Surf: Latitude: 36.893307° N (NAD83) Longitude: 107.657658° W Bottomhole: Latitude: 36.895402° N (NAD83) Longitude: 107.660617° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 15, T31N, R8W API # 30-045-35084	
14. Distance in Miles from Nearest Town 24 miles / Blanco	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1050'	17. Acres Assigned to Well 320.00 E/2 - MV/DK	
16. Acres in Lease 1,720.00	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 71' from SJ 32-8 Unit 226A	
19. Proposed Depth 8072'	 H ₂ S POTENTIAL EXIST	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6518' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>1/11/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE

AFM

DATE

1/28/2010

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 3

Bond Numbers ES-0048 and ES-0085

FEB 12 2010

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

NMOCD

Hold C104
for Directional Survey
and "As Drilled" plat

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT 1
1025 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

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

Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

JAN 11 2010

☐ AMENDED REPORT

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

Bureau of Land Management
U. S. DEPARTMENT OF THE INTERIOR

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35084		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 31330	*Property Name SAN JUAN 32 - 8 UNIT		*Well Number 21C
*OGRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6518'

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	15	31-N	8-W		1155	SOUTH	1050	EAST	SAN JUAN

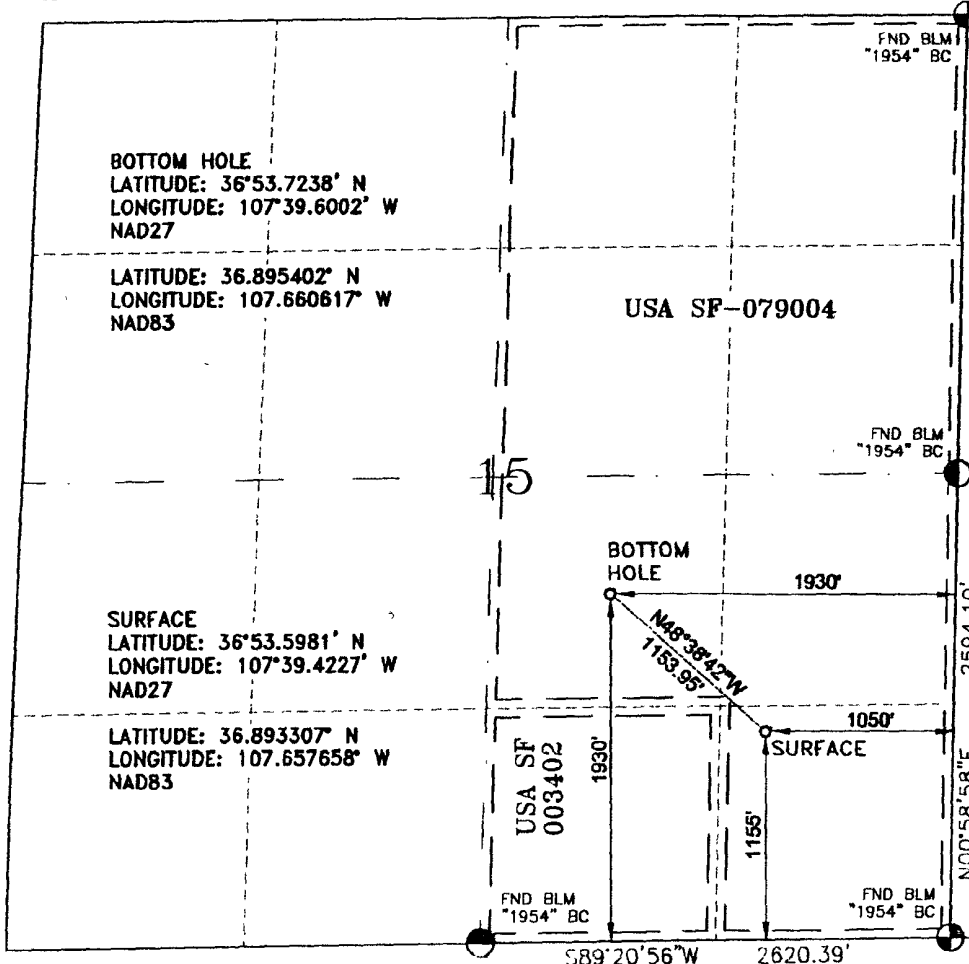
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	15	31-N	8-W		1930	SOUTH	1930	EAST	SAN JUAN

¹³ Dedicated Acres MV 320.00 ACRES E/2 DK 320.00 ACRES E/2	¹⁴ Joint or Infill	¹⁵ Consolidation Code	¹⁶ Order No.
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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

18



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 organization either owns a working interest or unleased 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 in a secondary pooling agreement or a compulsory pooling order heretofore entered by the Division.

James C. Munro Harlow

Signature
Tracey N. Monroe

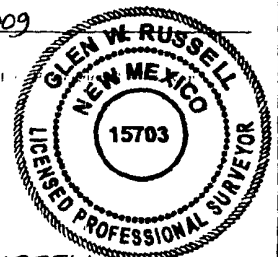
Printed Name _____

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.

JULY 14, 2009
Date of Survey

Signature and Seal



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 UNIT 21C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9208				AFE \$: 1,754,611.88	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.893303		Longitude: -107.657045		X:	Y:	Section: 15	Range: 008W
Footage X: 1050 FEL		Footage Y: 1155 FSL		Elevation: 6518 (FT)		Township: 031N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.895398		Longitude: -107.660004		X:	Y:	Section: 15	Range: 008W
Footage X: 1930 FEL		Footage Y: 1930 FSL		Elevation: (FT)		Township: 031N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6534 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6334	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	802	5732	☐				
OJO ALAMO	2216	4318	☐				
KIRTLAND	2316	4218	☐				
FRUITLAND	2934	3600	☐	200		Possible Gas	
PICTURED CLIFFS	3405	3129	☐	1065			
LEWIS	3510	3024	☐				
Intermediate Casing	3610	2924	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 868 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4173	2361	☐				
CHACRA	4574	1960	☐				
MASSIVE CLIFF HOUSE	5332	1202	☐	475		Gas	
MENEFEE	5383	1151	☐				
POINT LOOKOUT	5722	812	☐				
MANCOS	6069	465	☐				
UPPER GALLUP	7008	-474	☐				
GREENHORN	7760	-1226	☐				
GRANEROS	7817	-1283	☐				
TWO WELLS	7898	-1364	☐	3475		Gas	
PAGUATE	7938	-1404	☐				
UPPER CUBERO	7952	-1418	☐				
LOWER CUBERO	7982	-1448	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 UNIT 21C

DEVELOPMENT

ENCINAL	8042	-1508	☐	TD 30' into Encinal - use mudlog or GSL to determine if completed
Total Depth	8072	-1538	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 607 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	32-8 16M	NW15 31-8
Production	32-8 34	NE22 31-8
Production	32-8 23M	NW14 31-8

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
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No OH logs required. Mudlog from 100' above Greenhorn to TD - loggers will call TD.

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: Location/Tops/Loggins - MV/DKNM031N008W15SE2 Avoid O - S1 32-8 Unit 21A (MV) is located there. Prefer a PWT in L.D.T. Tops

ConocoPhillips or its affiliates

Planning Report

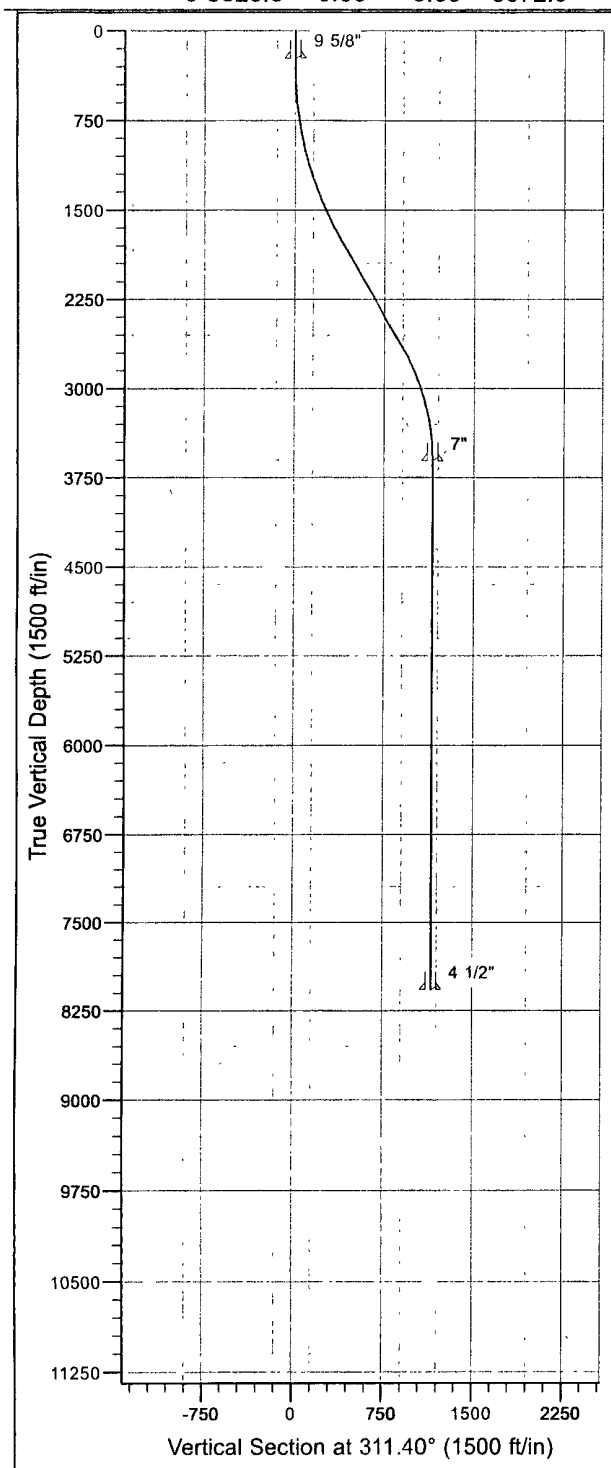
Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ.32-8 #21C
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6534 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6534 0ft (Original Well Elev)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #21C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,200 6	7,952 0	Upper Cubero		0 00		
8,290 6	8,042 0	Encinal		0 00		
7,256 6	7,008 0	Upper Gallup		0 00		
5,631 6	5,383 0	Menefee		0 00		
4,421 6	4,173 0	Huerfanito Bentonite		0 00		
4,822 6	4,574 0	Chacra		0 00		
3,167 6	2,934 0	Fruitland		0 00		
804 3	802 0	Nacimiento		0 00		
2,468 5	2,316 0	Kirtland		0 00		
2,353 4	2,216 0	Ojo Alamo		0 00		
	8,072 0	Total Depth		0 00		
5,580 6	5,332 0	Massive Cliff House		0 00		
8,186 6	7,938 0	Paguate		0 00		
3,758 6	3,510 0	Lewis		0 00		
3,653 2	3,405 0	Pictured Cliffs		0 00		
8,146 6	7,898 0	Two Wells		0 00		
6,317 6	6,069 0	Mancos		0 00		
8,065 6	7,817 0	Graneros		0 00		
8,230 6	7,982 0	Lower Cubero		0 00		
5,970 6	5,722 0	Point Lookout		0 00		
8,008 6	7,760 0	Greenhorn		0 00		

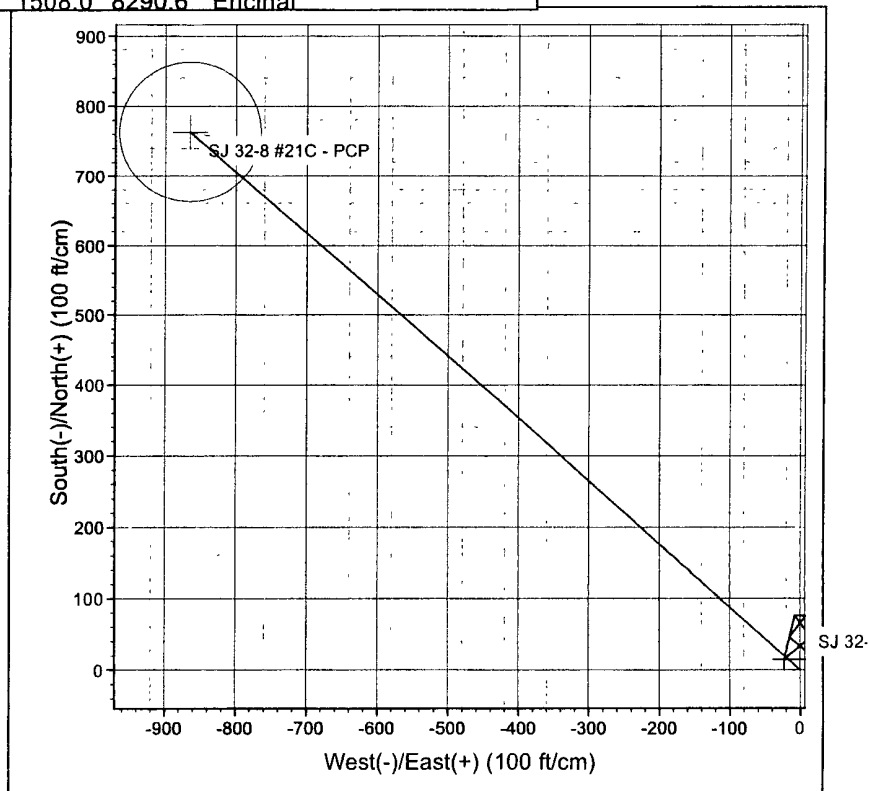
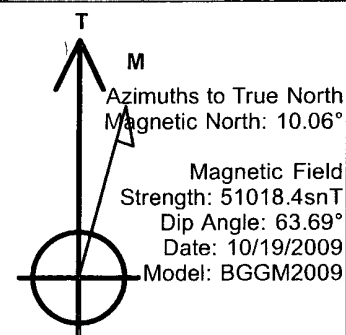
REFERENCE INFORMATION RKB @ 6534.0ft (Original Well Elev) Ground Elevation 6518.0 Reference Lat: 36° 53' 35.886 N Reference Long: 107° 39' 25.362 W	Project: San Juan Basin - New Mexico Wells Site: San Juan 32 Wells Well: SJ 32-8 #21C Wellbore: Principal Wellbore Design: Plan #1	ConocoPhillips
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SECTION 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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1802.4	29.65	311.40	1737.1	248.0	-281.3	2.00	311.40	375.1	
4	2870.3	29.65	311.40	2665.2	597.4	-677.6	0.00	0.00	903.3	
5	3858.6	0.00	0.00	3610.0	762.8	-865.1	3.00	180.00	1153.4	SJ 32-8 #21C - ICP
6	8320.6	0.00	0.00	8072.0	762.8	-865.1	0.00	0.00	1153.4	SJ 32-8 #21C - PCP



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
-5732.0	804.3	Total Depth
-4318.0	2353.4	Nacimiento
-4218.0	2468.5	Ojo Alamo
-3600.0	3167.6	Kirtland
-3129.0	3653.2	Fruitland
-3024.0	3758.6	Pictured Cliffs
-2361.0	4421.6	Lewis
-1960.0	4822.6	Huerfano Bentonite
-1202.0	5580.6	Chacra
-1151.0	5631.6	Massive Cliff House
-812.0	5970.6	Menefee
-465.0	6317.6	Point Lookout
474.0	7256.6	Mancos
1226.0	8008.6	Upper Gallup
1283.0	8065.6	Greenhorn
1364.0	8146.6	Graneros
1404.0	8186.6	Two Wells
1418.0	8200.6	Paguate
1448.0	8230.6	Upper Cubero
1508.0	8290.6	Lower Cubero
		Encinal



Directions from the Post office
In Blanco, NM to
CONOCOPHILLIPS COMPANY
SAN JUAN 32-8 UNIT 21C
1155' FSL & 1050' FEL,
Section 15, T31N, R8W, N.M.P.M., San Juan County,
New Mexico
Lat: 36° 53' 35.904" N
Long: 107° 39' 27.567" W
Nad 83

From the Post office in Blanco, NM
Take Hwy 64 east for 2.2 miles to Hwy 511,
Turn left on Hwy 511 for 20.6 miles past Navajo Dam,
Turn left (west) 250',
Stay left (southwest) 0.6 miles,
Turn right (northwest) 0.4 miles,
Continue (northwest) 0.2 miles to newly staked location twinned with
existing location (SAN JUAN 32-8 UNIT 226A)