

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 07 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington, NM

1a. Type of Work DRILL	5. Lease Number SF-078995 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name San Juan 31-6 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number 57	
4. Location of Well Surf: Unit I (NESE), 1863' FSL & 275' FEL BHL: Unit H (SENE), 1975' FNL & 710' FEL Surf: Latitude: 36.853895° N (NAD83) Longitude: 107.496207° W BHL: Latitude: 36.857850° N (NAD83) Longitude: 107.497701° W	10. Field, Pool, Wildcat Rosa Pictured Cliffs 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 31, T31N, R6W API # 30-039-30975	
14. Distance in Miles from Nearest Town 58 miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 275'	17. Acres Assigned to Well 160.00 NE/4 PC (320.00-E/2 acres for Federal Unit Agreement drillblock spacing)	
16. Acres in Lease 1920.00 This action is subject to technical and procedural review pursuant to 43 CFR 3105.3 and appeal pursuant to 43 CFR 3105.4		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1095.6' from the SJ 31-6 Unit 47 - Basin DK		
19. Proposed Depth 3553'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6365' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>June 7, 2010</u>	

PERMIT NO.

APPROVED BY

Hold C104

for Directional Survey
and "As Drilled" plat

APPROVAL DATE

TITLE

DATE

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

Bond Numbers ES-0048 and ES-0085

BLM'S APPROVAL OR ACCEPTANCE OF THIS

DOES NOT CONSTITUTE A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED BY THE APPLICANT.

NO OTHER PERMITS OR APPROVALS REQUIRED FOR OPERATIONS

ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

JUL 06 2010

District I

1625 N French Dr., Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

JUN 07 2010

State Lease - 7 Copies

Fee Lease - 3 Copies

Bureau of Land Management

Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30975		² Pool Code 96175		³ Pool Name ROSA PICTURED CLIFFS	
⁴ Property Code 31328		⁵ Property Name SAN JUAN 31-6 UNIT			⁶ Well Number 57
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6365

¹⁰ SURFACE LOCATION

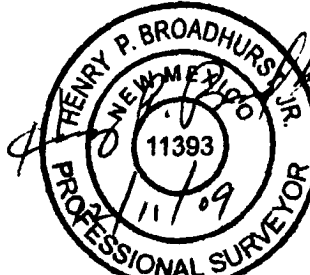
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	31	31-N	6-W		1863	SOUTH	275	EAST	RIO ARRIBA

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
H	31	31-N	6-W		1975	NORTH	710	EAST	RIO ARRIBA

¹² Dedicated Acres 160.00 (NE/4)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

¹⁶ GLO 1914 N 89°39'39" E N 89°55' E E/2 DEDICATED ACREAGE USA SF-078995 SECTION 31, T-31-N, R-6-W NE/4 -160.0 ACRES FOR PC SPACING/DENSITY; E/2 -320.0 ACRES FOR FEDERAL UNIT AGREEMENT DRILLBLOCK SPACING.	BOTTOM HOLE NAD 83 LAT: 36.857850° N LONG: 107.497701° W NAD 27 LAT: 36°51.470704° N LONG: 107°29.825775° W	2635.6' (M) 2636.7' (R)	GLO 1914 2640.0' (R) 2640.9' (M)	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Crystal Tafoya 1/12/10</i> Signature Crystal Tafoya Printed Name Regulatory Technician Title and E-mail Address January 12, 2010 Date	
BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.	N 17°05'34" W 1504.8'	1975'	710'	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. Date of Survey: 10/27/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393	
WELL FLAG NAD 83 LAT: 36.853895° N LONG: 107.496207° W NAD 27 LAT: 36°51.233400° N LONG: 107°29.736110° W	WEST S 89°41'05" W	1863'	2640.0' (R) 2639.3' (M)		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 57

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9141		AFE \$: 0.00	
Field Name: SAN JUAN		Rig: H&P Rig 283		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
UPL	BLANCO PICTURED CLIFFS

Location: Surface Datum Code: NAD 27 Directional

Latitude: 36.853889	Longitude: -107.495602	X:	Y:	Section: 31	Range: 006W
Footage X: 275 FEL	Footage Y: 1863 FSL	Elevation: 6365	(FT)	Township: 031N	

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Directional

Latitude: 36.857844	Longitude: -107.497096	X:	Y:	Section: 31	Range: 006W
Footage X: 710 FEL	Footage Y: 1975 FNL	Elevation:	(FT)	Township: 031N	

Tolerance:

Location Type: Restricted Start Date (Est.): 1/1/2011 Completion Date: Date In Operation:

Formation Data: Assume KB = 6380 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6260	☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
NACIMIENTO	1038	5342	☐			
OJO ALAMO	2278	4102	☐			
KIRTLAND	2396	3984	☐			
FRUITLAND	2850	3530	☐			Gas
PICTURED CLIFFS	3353	3027	☐	1034		Gas; TD - 200' below T/PCCF
Total Depth	3553	2827	☐			6-1/4" hole. 4-1/2" 11.6 ppf, J-55, LTC casing. Cement with 531 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 31-6 45	31N 6W 31 SE NW NE
Production	SJ 31-6 47	31N 6W 32 SE NW SW
Production	SJ 31-6 45N	31N 6W 31 SE SE SE
Production	SJ 31-6 45M	31N 6W 31 SE SE SE

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 57

DEVELOPMENT

Logging Program:

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

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

Cased Hole GR / CBL

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #57
Company:	ConocoPhillips SJBU	TVD Reference:	KB Elevation @ 6381.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	KB Elevation @ 6381.0ft (Original Well Elev)
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #57	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #57		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,900.0	0.00	0.00	3,482.1	1,439.9	-437.2	1,504.9	0.00	0.00	0.00
3,970.9	0.00	0.00	3,553.0	1,439.9	-437.2	1,504.9	0.00	0.00	0.00
Prod.Csg.(TD)									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude
Prod.Csg (TD)	- plan hits target center - Point	0.00	0.00	3,553.0	1,439.9	-437.2	2,131,690.40	598,368.99	36° 51' 28.242 N
Vertical By PC top	- plan hits target center - Point	0.00	0.00	3,353.0	1,439.9	-437.2	2,131,690.44	598,368.95	36° 51' 28.242 N
									107° 29' 49.546 W
									107° 29' 49.547 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
120.0	120.0	7"	7	8-3/4	
3,770.9	3,353.0	4 1/2"	4-1/2	6-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,730.6	2,396.0	Kirtland		0.00		
1,075.3	1,038.0	Nacimiento		0.00		
2,586.5	2,278.0	Ojo Alamo		0.00		
3,770.9	3,353.0	Pictured Cliffs		0.00		
3,256.9	2,850.0	Fruitland		0.00		

REFERENCE INFORMATION

Elevation @ 6381.0ft (Original Well Elev)
Ground Elevation 6365.0
Reference Lat: 36° 51' 14.004 N
Reference Long: 107° 29' 44.167 W

Project: San Juan Basin - New Mexico Wells

Site: San Juan 31 Wells

Well: SJ 31-6 #57

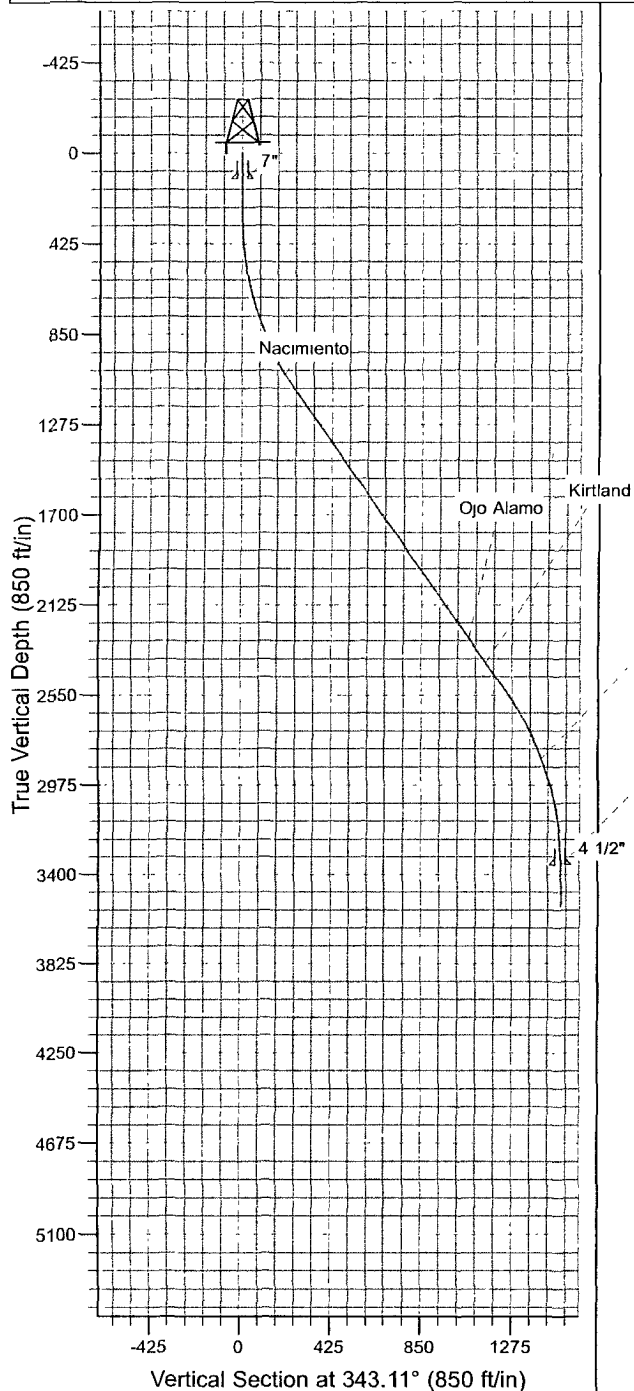
Wellbore: SJ 31-6 #57

Design: Plan #1



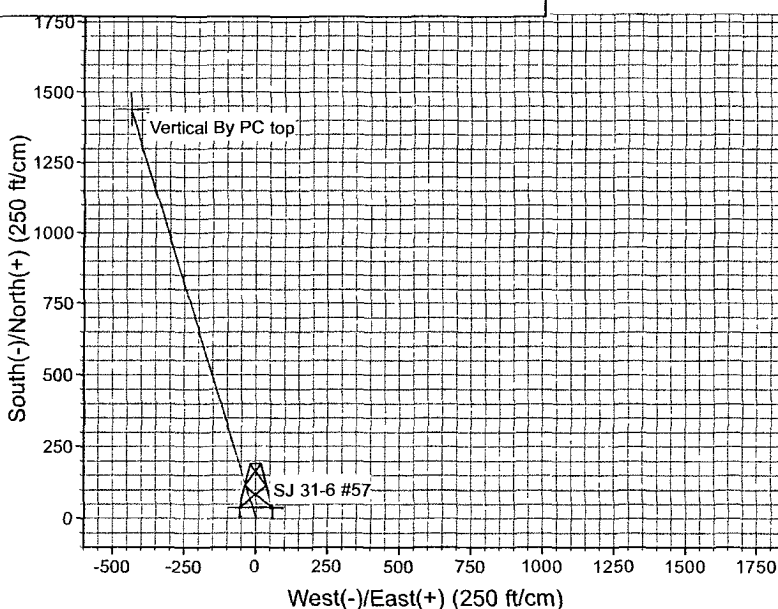
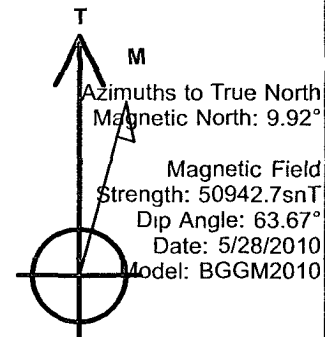
SECTION DETAILS

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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1174.7	34.99	343.11	1121.4	247.7	-75.2	4.00	343.11	258.9	
4	2896.1	34.99	343.11	2531.6	1192.2	-362.0	0.00	0.00	1246.0	
5	3770.9	0.00	0.00	3353.0	1439.9	-437.2	4.00	180.00	1504.9	Vertical By PC top
6	3970.9	0.00	0.00	3553.0	1439.9	-437.2	0.00	0.00	1504.9	Prod.Csg.(TD)



FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
1038.0	1075.3	Nacimiento
2278.0	2586.5	Ojo Alamo
2396.0	2730.6	Kirtland
2850.0	3256.9	Fruitland
3353.0	3770.9	Pictured Cliffs



CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT #57
1863' FSL, 275' FEL
SECTION 31, T-31-N, R-6-W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO
NAD 83 LAT.: 36.853895°N LONG.: 107.496207°W
ELEV.: 6365 NAVD88
NEW ACCESS 102.0'

FROM INTERSECTION OF HWY. 64 & HWY. 550 IN BLOOMFIELD, N.M.:

- GO 37.7 MI. EAST ON HWY. 64 TO MILE POST 102. TURN LEFT ON STATE HWY. 527. (SIMMS MARINA HWY)
- GO 8.0 MI. NORTH ON HWY. 527, TURN RIGHT ONTO ROSA ROAD.
- GO 6.7 MI. NORTHEAST ON ROSA ROAD, TURN LEFT ON EXISTING ROAD.
- GO 5.3 MI. WEST ON EXISTING ROAD, TURN RIGHT & GO DOWNHILL.
- GO 0.2 MI. NORTHWEST DOWNHILL, TURN RIGHT AND TRAVEL 0.1 MI. BEGIN 102.0 FT. NEW ACCESS ON LEFT (NORTH) SIDE OF ROAD.