

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 24 2010

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

1a. Type of Work DRILL	5. Lease Number SF-077111 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD APR 9 '10
2. Operator ConocoPhillips Company	7. Unit Agreement Name OIL CONS. DIV. DIST. 3 N/A
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Storey C 9. Well Number 100S
4. Location of Well Surf: Unit L(NWSW), 2050' FSL & 1229' FWL Bottomhole: Unit K(NESW), 1930' FSL & 1980' FWL Surf: Latitude: 36.616374° N (NAD83) Longitude: 107.780780° W Bottomhole: Latitude: 36.616096° N (NAD83) Longitude: 107.778223° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) L Sec. 34, T28N, R9W API # 30-045-35129
14. Distance in Miles from Nearest Town 15 miles / Blanco	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1229'	
16. Acres in Lease 2,575.130	17. Acres Assigned to Well 338.45 S/2 - FC
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101' from Storey C 1E (DK)	
19. Proposed Depth 3141' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6834' 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>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	<u>3/24/2010</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Montenegro

TITLE AFM

DATE 4/7/2010

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 2

Bond Numbers ES-0048 and ES-0085

NOTIFY AZTEC OCD 24 HRS
PRIOR TO CASING & CEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS
PERMIT IS NOT A GUARANTEE OF THE ACCURACY OF THE INFORMATION
PROVIDED BY THE APPLICANT. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER
NECESSARY PERMITS OR APPROVALS REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

APR 13 2010

Hold C104
for Directional Survey
and "As Drilled" plat

to NMOC

Bureau of Land Management
Fossil Fuels Field Office
WELL LOCATION AND ACREAGE DEDICATION PLAT

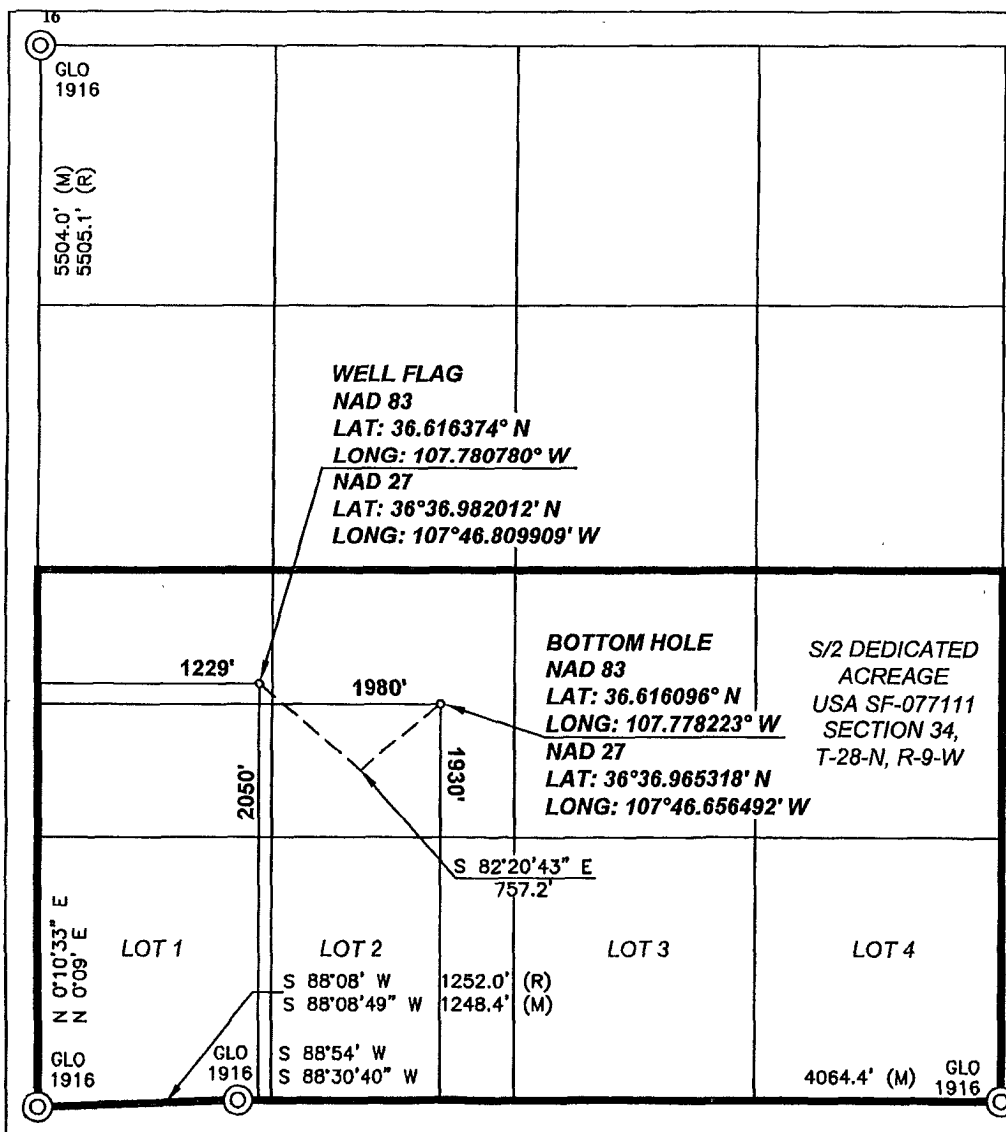
¹ API Number 30-045- 35129	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 31847	⁵ Property Name STOREY C	⁶ Well Number 100S
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6834

¹⁰ SURFACE LOCATION									
UL or lot no. L	Section 34	Township 28-N	Range 9-W	Lot Idn	Feet from the 2050	North/South line SOUTH	Feet from the 1229	East/West line WEST	County SAN JUAN

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. K	Section 34	Township 28-N	Range 9-W	Lot Idn	Feet from the 1930	North/South line SOUTH	Feet from the 1980	East/West line WEST	County SAN JUAN

¹² Dedicated Acres 338.45 (S/2)	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



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 Tafuya 3/5/09</i> Signature
Crystal Tafuya Printed Name
Regulatory Technician Title and E-mail Address
March 5th, 2009 Date
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: 2/3/09 Signature and Seal of Professional Surveyor:
Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

STOREY C 100S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8539		AFE \$: 1,251,100.40	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #1		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface Datum Code: NAD 27 Directional

Latitude: 36.616366 Longitude: -107.780165 X: Y: Section: 34 Range: 009W

Footage X: 1229 FWL Footage Y: 2050 FSL Elevation: 6834 (FT) Township: 028N

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Directional

Latitude: 36.616088 Longitude: -107.777608 X: Y: Section: 34 Range: 009W

Footage X: 1980 FWL Footage Y: 1930 FSL Elevation: (FT) Township: 028N

Tolerance:

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

Formation Data: Assume KB = 6849 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6729	☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1934	4915	☐			
KIRTLAND	2049	4800	☐			
FRUITLAND	2645	4204	☐	100		Gas
PICTURED CLIFFS	2941	3908	☐			Gas
Total Depth	3141	3708	☐			6-1/4" hole. 4-1/2" 11.6 ppf, J-55, LTC casing. Cement with 441 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	Storey C 1E	SW34 28-9

Logging Program:

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

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

No OH or mud logs needed.

Additional Information:

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

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Storey C #100S
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6849 0ft (Rig Floor KB)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 6849 0ft (Rig Floor KB)
Site:	Other Named Wells	North Reference:	True
Well:	Storey C #100S	Survey Calculation Method:	Minimum Curvature
Wellbore:	Storey C #100S		
Design:	Storey C #100S APD Directional Plan		

Targets									
Target Name	hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	
Top of FTC- Storey C #1		0 00	0 00	2,645.0	-101.3	750.5	2,043,512.10	516,353.99	
- plan hits target center									
- Point									
Vertical Section- Storey		0 00	0.00	2,595.0	-101.5	750.5	2,043,511.90	516,354.07	
- plan hits target center									
- Point									
TD- Storey C #100S		0 00	0.00	3,141.0	-101.3	750.5	2,043,512.12	516,354.01	
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth			Casing Diameter	Hole Diameter
(ft)	(ft)			(")	(")
120.0	120.0	7"		7	8-3/4
3,289.6	3,141.0	4 1/2"		4-1/2	6-1/4

Formations						
Measured Depth	Vertical Depth				Dip	Dip Direction
(ft)	(ft)				(°)	(°)
2,187.5	2,049.0	Kirtland			0 00	
2,065.1	1,934.0	Ojo Alamo			0.00	
3,089.6	2,941.0	Pictured Cliffs			0 00	
2,793.6	2,645.0	Fruitland			0.00	

REFERENCE INFORMATION

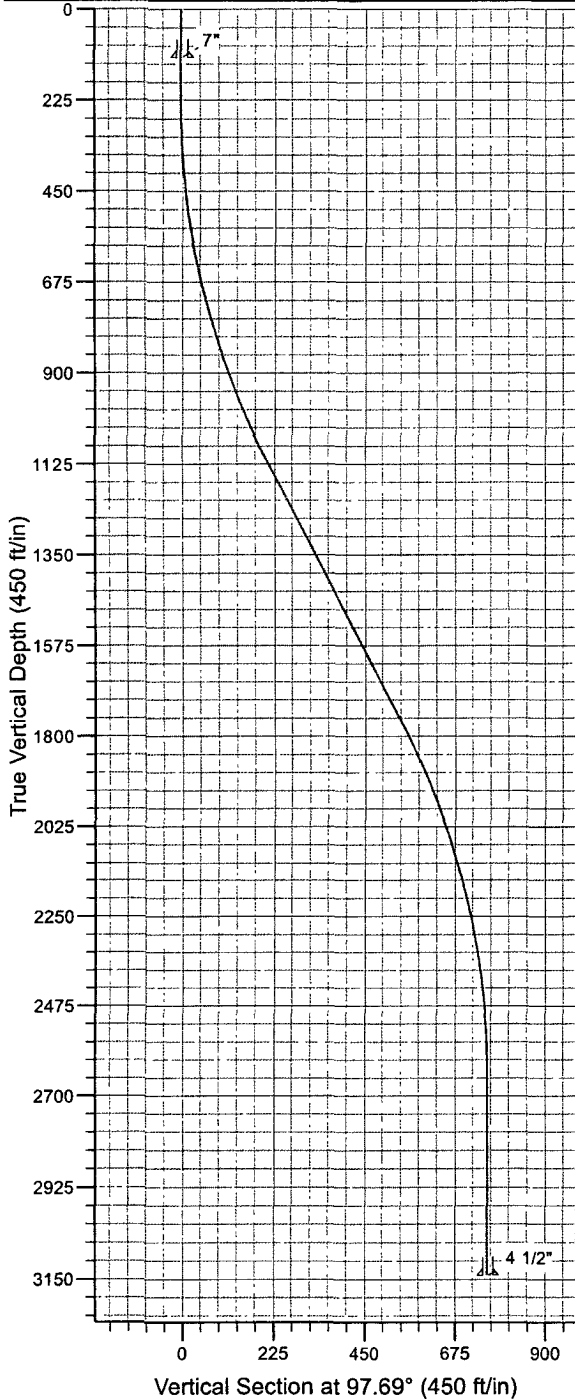
WELL @ 6849.0ft (Rig Floor KB)
Ground Elevation 6834.0
Reference Lat: 36° 36' 58.921 N
Reference Long: 107° 46' 48.595 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Storey C #100S
Wellbore: Storey C #100S
Design: Storey C #100S APD Directional Plan



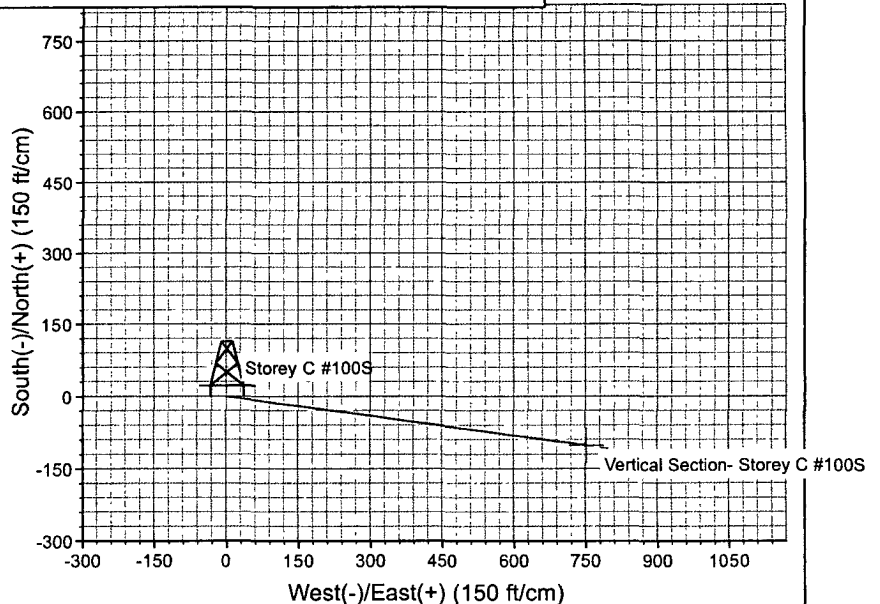
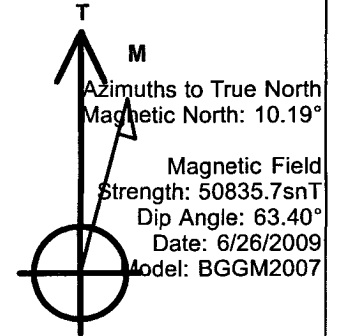
SECTION DETAILS

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	250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	
3	1159.8	27.29	97.69	1125.8	-28.4	210.7	3.00	97.69	212.6	
4	1883.9	27.29	97.69	1769.2	-72.9	539.8	0.00	0.00	544.7	
5	2793.6	0.00	0.00	2645.0	-101.3	750.5	3.00	180.00	757.3	Top of FTC- Storey C #100S
6	3289.6	0.00	0.00	3141.0	-101.3	750.5	0.00	0.00	757.3	TD- Storey C #100S



FORMATION TOP DETAILS

TVDP	MD	Formation
1934.0	2065.1	Ojo Alamo
2049.0	2187.5	Kirtland
2645.0	2793.6	Fruitland
2941.0	3089.6	Pictured Cliffs



CONOCOPHILLIPS COMPANY

**STOREY C 100S
2050' FSL, 1229' FWL
SECTION 34, T-28-N, R-9-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.616374°N LONG.: 107.780780°W
ELEV.: 6834 NAVD88
NO NEW ACCESS**

FROM BLANCO, N.M ON HWY. 64:

- GO 1.3 MI. EAST ON HWY. 64 TO MILE POST 74.
- TURN RIGHT ON C.R. 4450 (LARGO CANYON).
- GO 4.2 MI. SOUTH, AND CROSS LARGO WASH AT "5 MILE BRIDGE".
- AFTER CROSSING LARGO WASH, GO ANOTHER 3.0 MI. SOUTHEAST. TURN RIGHT ON C.R. 7007 (7.2 MI. FROM HWY. 64), ENTERING BLANCO CANYON.
- GO 5.2 MI. SOUTH ON C.R. 7007 AND TURN RIGHT ON C.R. 7225 HEADING WEST, INTO JAQUEZ CANYON.
- GO 0.5 MI. WEST. TURN RIGHT ON C.R. 7220, HEADING NORTHWEST TO HARRIS MESA PASS.
- GO 3.0 MI. NORTHWESTERLY, UP PASS, AND ONTO HARRIS MESA. TURN RIGHT.
- GO 0.3 MI. NORTHEAST INTO THE SW/4 OF SECTION 34, T-28-N, R-9-W.
- TURN RIGHT INTO WELL LOCATION FOR THE STOREY C 1E. NEW WELL IS STAKED HERE.