

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 15 2013

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

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
USA-SF-079938-A
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company, LP

7. Unit Agreement Name
RCVD MAR 14 '13
OIL CONS. DIV.

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

8. Farm or Lease Name
BOLIN DIST. 3

9. Well Number
1B

4. Location of Well
Surface: Unit H(SE/NE), 2448' FNL & 974' FEL
BHL : Unit H(SE/NE), 2200' FNL & 710' FEL
Surface: Latitude: 36.69708° N (NAD83)
Longitude: 107.71196° W
BHL : Latitude: 36.69777° N (NAD83)
Longitude: 107.71102° W

10. Field, Pool, Wildcat
BLANCO MV

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 30, T29N, R8W

API # 30-045- **35453**

14. Distance in Miles from Nearest Town
12 miles - Blanco

12. County
San Juan

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
710'

16. Acres in Lease
320.000

 **H₂S POTENTIAL EXIST**

17. Acres Assigned to Well
320.00 acres - E/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease
874' - Lively 6/DK

19. Proposed Depth
5744'

20. Rotary or Cable Tools
Rotary

21. Elevations (DF, FT, GR, Etc.)
6480' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

~~This action is subject to technical data review and approval pursuant to 43 CFR 3162.4~~

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

24. Authorized by: Arleen White
Arleen White (Staff Regulatory Tech)

1/15/13
Date

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE Acting AFM Minerals DATE 3/12/13

Archaeological Report attached A gas recovery unit may or may not be used on this location.

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 NMB-000015 and NMB-000089

ONSITE CONDUCTED AS THE LIVELY 6M. NAME CHANGED AFTER DROPPING THE DAKOTA ZONE.

Hold C104

for Directional Survey and "As Drilled" plat

Hold C104

for Directional Survey and "As Drilled" plat

ANMOCD

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

DISTRICT I
1626 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Artec, N.M. 87410
Phone: (505) 334-6176 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

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 August 1, 2011

Submit one copy to appropriate
district office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35453		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 6839	*Property Name BOLIN		*Well Number 1B
*OGRD No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6480'

¹⁰ Surface Location

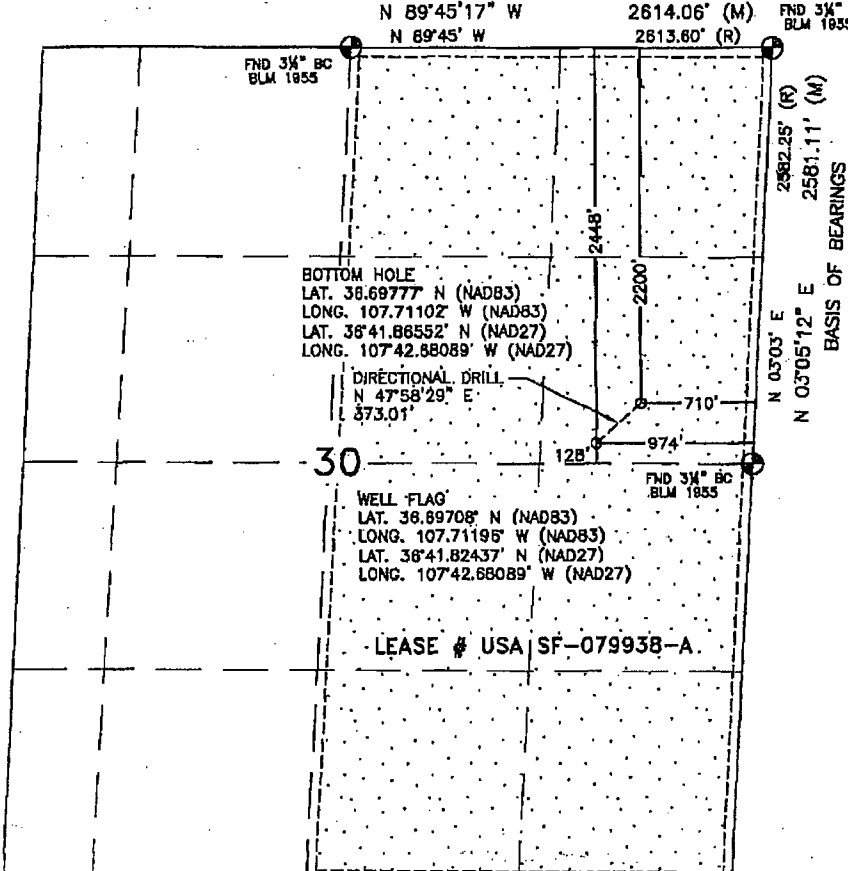
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	30	29N	8W		2448'	NORTH	974'	EAST	SAN JUAN

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
H	30	29N	8W		2200'	NORTH	710'	EAST	SAN JUAN

*Dedicated Acres 320.00 ACRES - E/2	*Joint or Infill	*Consolidation Code	*Order No. RCVD MAR 20 13 OIL CONS. DIV. DIST 3
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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. Arleen White Signature Date Arleen White Printed Name arleen.r.white@conocophillips.com E-mail Address
	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. SEPTEMBER 29, 2010 Date of Survey Signature and Seal of Professional Surveyor: DAVID RUSSELL REGISTERED PROFESSIONAL LAND SURVEYOR 10201 DAVID RUSSELL Certificate Number 10201
	LEASE # USA SF-079938-A.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

BOLIN 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0102				AFE \$:	
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						
R20002	MESAVERDE(R20002)						
Location: Surface		Datum Code: NAD 27				Directional	
Latitude: 36.697074	Longitude: -107.711347	X:	Y:	Section: 30	Range: 008W		
Footage X: 974 FEL	Footage Y: 2448 FNL	Elevation: 6480	(FT)	Township: 029N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Directional	
Latitude: 36.697764	Longitude: -107.710407	X:	Y:	Section: 30	Range: 008W		
Footage X: 710 FEL	Footage Y: 2200 FNL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6495 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6295		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	608	5887		☐			
OJO ALAMO	1959	4536		☐			
KIRTLAND	2096	4399		☐			
FRUITLAND	2558	3937		☐			Possible Gas
PICTURED CLIFFS	3002	3493		☐			
LEWIS	3145	3350		☐			
Intermediate Casing	3295	3200		☐			109 8 3/4" Hole.. 7", 23 ppf, J-55, LTC Casing. Cement with 742 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3606	2889		☐			
CHACRA	3971	2524		☐			
UPPER CLIFF HOUSE	4616	1879		☐			Gas; Est. Top Perf - 4618 (1877)
MASSIVE CLIFF HOUSE	4650	1845		☐	314		Gas; Cliffhouse is dry
MENEFEE	4770	1725		☐			
POINT LOOKOUT	5244	1251		☐			
MANCOS	5684	811		☐			Est bottom perf 5644'
Total Depth	5744	751		☐			191 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 326cuft. Circulate cement a minimum of 100' inside the previous casing string.
UPPER GALLUP	6465	30		☐			
GREENHORN	7210	-715		☐			
GRANEROS	7273	-778		☐			
TWO WELLS	7326	-831		☐	2584		Gas

PROJECT PROPOSAL - New Drill / Sidetrack

BOLIN 1B

DEVELOPMENT

PAGUATE	7418	-923	☐
UPPER CUBERO	7457	-962	☐
LOWER CUBERO	7485	-990	☐
ENCINAL	7543	-1048	☐

Reference Wells:

Reference Type	Well Name	Comments
Production	Hughes 6E	29N 8W 29 NE SW SW
Production	Lively 6	29N 8W 30 NE SW NE
Production	Hughes LS 99	29N 8W 30 SE NW NW
Production	Hughes 7	29N 8W 19 NW SE SE

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

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

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

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Bolin #1B
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Bolin #1B
TVD Reference: WELL @ 6495.0usft (Original Well Elev)
MD Reference: WELL @ 6495.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	Other Named Wells		
Site Position:		Northing:	2,108,178.26 usft
From:	Lat/Long	Easting:	643,887.63 usft
Position Uncertainty:	15.0 usft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well	Bolin #1B		
Well Position	+N/-S	0.0 usft	Northing: 2,073,011.52 usft
	+E/-W	0.0 usft	Easting: 535,762.34 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	36° 41' 49.462 N
		Longitude:	107° 42' 40.853 W
		Ground Level:	6,480.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	12/11/2012	(°)
			9.69
			Dip Angle
			(°)
			63.38
			Field Strength
			(nT)
			50,518

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			47.89

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,507.6	18.15	47.89	1,492.5	95.6	105.8	2.00	2.00	0.00	47.89	
1,941.7	18.15	47.89	1,905.0	186.3	206.1	0.00	0.00	0.00	0.00	
2,546.8	0.00	0.00	2,500.0	250.0	276.6	3.00	-3.00	0.00	180.00	BOLIN #1B VERTICAL
3,341.8	0.00	0.00	3,295.0	250.0	276.6	0.00	0.00	0.00	0.00	BOLIN #1B ICP
5,790.8	0.00	0.00	5,744.0	250.0	276.6	0.00	0.00	0.00	0.00	BOLIN #1B PCP

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Local Co-ordinate Reference: Well Bolin #1B
 TVD Reference: WELL @ 6495.0usft (Original Well Elev)
 MD Reference: WELL @ 6495.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
608.0	0.16	47.89	608.0	0.0	0.0	0.0	2.00	2.00	0.00
NACIMIENTO									
700.0	2.00	47.89	700.0	1.2	1.3	1.7	2.00	2.00	0.00
800.0	4.00	47.89	799.8	4.7	5.2	7.0	2.00	2.00	0.00
900.0	6.00	47.89	899.5	10.5	11.6	15.7	2.00	2.00	0.00
1,000.0	8.00	47.89	998.7	18.7	20.7	27.9	2.00	2.00	0.00
1,100.0	10.00	47.89	1,097.5	29.2	32.3	43.5	2.00	2.00	0.00
1,200.0	12.00	47.89	1,195.6	42.0	46.4	62.6	2.00	2.00	0.00
1,300.0	14.00	47.89	1,293.1	57.1	63.1	85.1	2.00	2.00	0.00
1,400.0	16.00	47.89	1,389.6	74.4	82.3	111.0	2.00	2.00	0.00
1,500.0	18.00	47.89	1,485.3	94.0	104.0	140.2	2.00	2.00	0.00
1,507.6	18.15	47.89	1,492.5	95.6	105.8	142.6	2.00	2.00	0.00
1,600.0	18.15	47.89	1,580.3	114.9	127.1	171.4	0.00	0.00	0.00
1,700.0	18.15	47.89	1,675.3	135.8	150.2	202.5	0.00	0.00	0.00
1,800.0	18.15	47.89	1,770.3	156.7	173.4	233.7	0.00	0.00	0.00
1,900.0	18.15	47.89	1,865.4	177.6	196.5	264.8	0.00	0.00	0.00
1,941.7	18.15	47.89	1,905.0	186.3	206.1	277.8	0.00	0.00	0.00
1,998.3	16.46	47.89	1,959.0	197.6	218.6	294.6	3.00	-3.00	0.00
OJO ALAMO									
2,000.0	16.40	47.89	1,960.7	197.9	218.9	295.1	3.00	-3.00	0.00
2,100.0	13.40	47.89	2,057.3	215.1	238.0	320.8	3.00	-3.00	0.00
2,139.7	12.21	47.89	2,096.0	221.0	244.6	329.6	3.00	-3.00	0.00
KIRTLAND									
2,200.0	10.40	47.89	2,155.1	229.0	253.3	341.5	3.00	-3.00	0.00
2,300.0	7.40	47.89	2,253.9	239.3	264.8	358.9	3.00	-3.00	0.00
2,400.0	4.40	47.89	2,353.4	246.2	272.4	367.2	3.00	-3.00	0.00
2,500.0	1.40	47.89	2,453.2	249.6	276.2	372.3	3.00	-3.00	0.00
2,546.8	0.00	0.00	2,500.0	250.0	276.6	372.9	3.00	-3.00	0.00
2,600.0	0.00	0.00	2,553.2	250.0	276.6	372.9	0.00	0.00	0.00
2,604.8	0.00	0.00	2,558.0	250.0	276.6	372.9	0.00	0.00	0.00
FRUITLAND									
2,700.0	0.00	0.00	2,653.2	250.0	276.6	372.9	0.00	0.00	0.00
2,800.0	0.00	0.00	2,753.2	250.0	276.6	372.9	0.00	0.00	0.00
2,900.0	0.00	0.00	2,853.2	250.0	276.6	372.9	0.00	0.00	0.00
3,000.0	0.00	0.00	2,953.2	250.0	276.6	372.9	0.00	0.00	0.00
3,048.8	0.00	0.00	3,002.0	250.0	276.6	372.9	0.00	0.00	0.00
PICTURED CLIFFS									
3,100.0	0.00	0.00	3,053.2	250.0	276.6	372.9	0.00	0.00	0.00
3,191.8	0.00	0.00	3,145.0	250.0	276.6	372.9	0.00	0.00	0.00
LEWIS									
3,200.0	0.00	0.00	3,153.2	250.0	276.6	372.9	0.00	0.00	0.00
3,300.0	0.00	0.00	3,253.2	250.0	276.6	372.9	0.00	0.00	0.00
3,341.8	0.00	0.00	3,295.0	250.0	276.6	372.9	0.00	0.00	0.00
3,400.0	0.00	0.00	3,353.2	250.0	276.6	372.9	0.00	0.00	0.00
3,500.0	0.00	0.00	3,453.2	250.0	276.6	372.9	0.00	0.00	0.00
3,600.0	0.00	0.00	3,553.2	250.0	276.6	372.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Bolin #1B
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Bolin #1B
 TVD Reference: WELL @ 6495.0usft (Original Well Elev)
 MD Reference: WELL @ 6495.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,652.8	0.00	0.00	3,606.0	250.0	276.6	372.9	0.00	0.00	0.00
HUERFANITO BENTONITE									
3,700.0	0.00	0.00	3,653.2	250.0	276.6	372.9	0.00	0.00	0.00
3,800.0	0.00	0.00	3,753.2	250.0	276.6	372.9	0.00	0.00	0.00
3,900.0	0.00	0.00	3,853.2	250.0	276.6	372.9	0.00	0.00	0.00
4,000.0	0.00	0.00	3,953.2	250.0	276.6	372.9	0.00	0.00	0.00
4,017.8	0.00	0.00	3,971.0	250.0	276.6	372.9	0.00	0.00	0.00
CHACRA									
4,100.0	0.00	0.00	4,053.2	250.0	276.6	372.9	0.00	0.00	0.00
4,200.0	0.00	0.00	4,153.2	250.0	276.6	372.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,253.2	250.0	276.6	372.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,353.2	250.0	276.6	372.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,453.2	250.0	276.6	372.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,553.2	250.0	276.6	372.9	0.00	0.00	0.00
4,662.8	0.00	0.00	4,616.0	250.0	276.6	372.9	0.00	0.00	0.00
UPPER CLIFF HOUSE									
4,696.8	0.00	0.00	4,650.0	250.0	276.6	372.9	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
4,700.0	0.00	0.00	4,653.2	250.0	276.6	372.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,753.2	250.0	276.6	372.9	0.00	0.00	0.00
4,816.8	0.00	0.00	4,770.0	250.0	276.6	372.9	0.00	0.00	0.00
MENEFE									
4,900.0	0.00	0.00	4,853.2	250.0	276.6	372.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,953.2	250.0	276.6	372.9	0.00	0.00	0.00
5,100.0	0.00	0.00	5,053.2	250.0	276.6	372.9	0.00	0.00	0.00
5,200.0	0.00	0.00	5,153.2	250.0	276.6	372.9	0.00	0.00	0.00
5,290.8	0.00	0.00	5,244.0	250.0	276.6	372.9	0.00	0.00	0.00
POINT LOOKOUT									
5,300.0	0.00	0.00	5,253.2	250.0	276.6	372.9	0.00	0.00	0.00
5,400.0	0.00	0.00	5,353.2	250.0	276.6	372.9	0.00	0.00	0.00
5,500.0	0.00	0.00	5,453.2	250.0	276.6	372.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,553.2	250.0	276.6	372.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,653.2	250.0	276.6	372.9	0.00	0.00	0.00
5,730.8	0.00	0.00	5,684.0	250.0	276.6	372.9	0.00	0.00	0.00
MANCOS									
5,790.8	0.00	0.00	5,744.0	250.0	276.6	372.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Bolin #1B
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well Bolin #1B
 TVD Reference: WELL @ 6495.0usft (Original Well Elev)
 MD Reference: WELL @ 6495.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BOLIN #1B PCP - plan hits target center - Point	0.00	0.00	5,744.0	250.0	276.6	2,073,261.53	536,038.94	36° 41' 51.931 N	107° 42' 37.453 W
BOLIN #1B VERTICAL f - plan hits target center - Point	0.00	0.00	2,500.0	250.0	276.6	2,073,261.53	536,038.94	36° 41' 51.931 N	107° 42' 37.453 W
BOLIN #1B ICP - plan hits target center - Point	0.00	0.00	3,295.0	250.0	276.6	2,073,261.55	536,038.92	36° 41' 51.931 N	107° 42' 37.453 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,139.7	2,096.0	KIRTLAND		0.00	
4,816.8	4,770.0	MENEFEE		0.00	
3,191.8	3,145.0	LEWIS		0.00	
2,604.8	2,558.0	FRUITLAND		0.00	
4,017.8	3,971.0	CHACRA		0.00	
4,696.8	4,650.0	MASSIVE CLIFF HOUSE		0.00	
3,048.8	3,002.0	PICTURED CLIFFS		0.00	
5,730.8	5,684.0	MANCOS		0.00	
608.0	608.0	NACIMIENTO		0.00	
5,290.8	5,244.0	POINT LOOKOUT		0.00	
3,652.8	3,606.0	HUERFANITO BENTONITE		0.00	
1,998.3	1,959.0	OJO ALAMO		0.00	
4,662.8	4,616.0	UPPER CLIFF HOUSE		0.00	

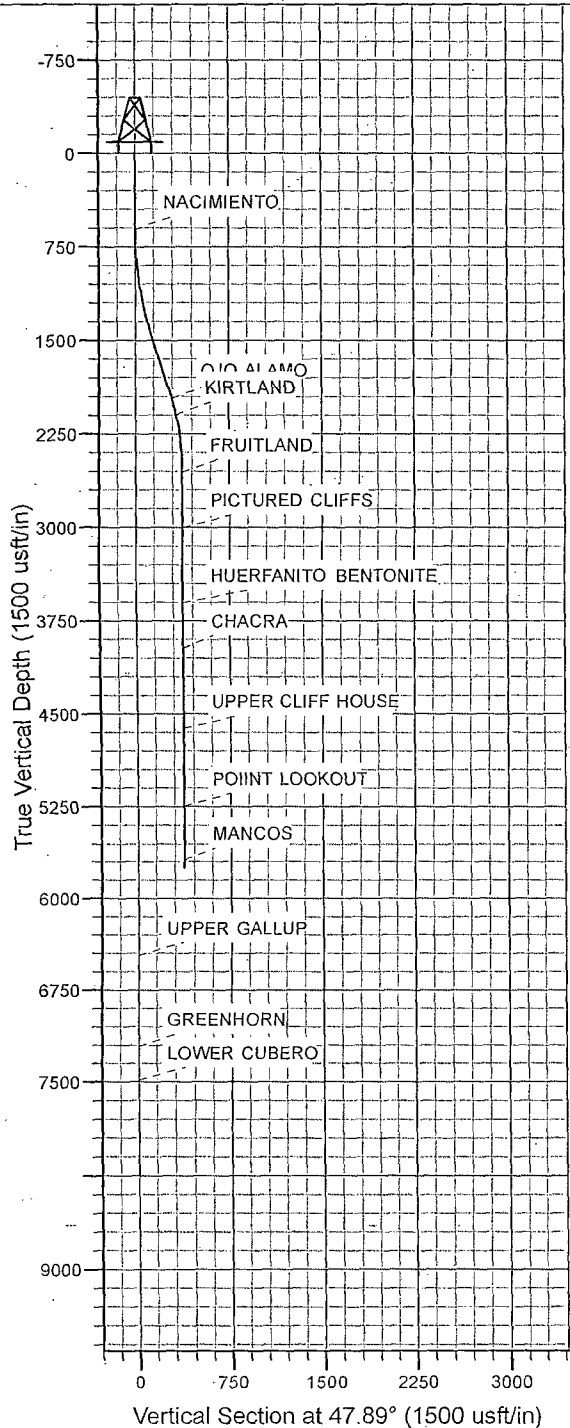
REFERENCE INFORMATION

WELL @ 6495.0usft (Original Well Elev)
Ground Elevation 6480.0
Reference Lat: 36° 41' 49.462 N
Reference Long: 107° 42' 40.853 W

Project: San Juan Basin - New Mexico West V
Site: Other Named Wells
Well: Bolin #1B
Wellbore: Wellbore #1
Design: Design #1

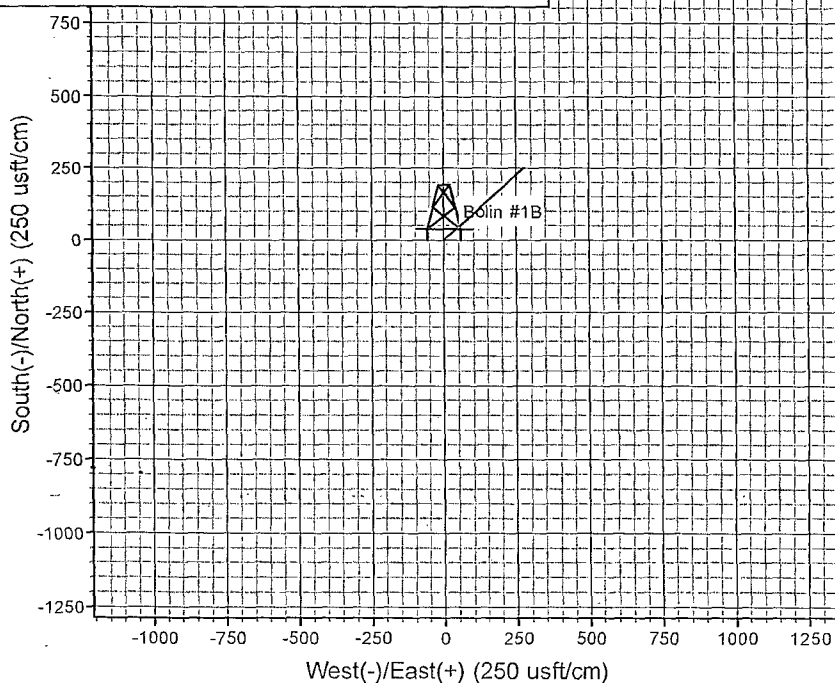
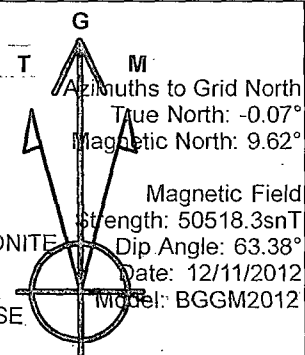
SECTION DETAILS

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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1507.6	18.15	47.89	1492.5	95.6	105.8	2.00	47.89	142.6	
4	1941.7	18.15	47.89	1905.0	186.3	206.1	0.00	0.00	277.8	
5	2546.8	0.00	0.00	2500.0	250.0	276.6	3.00	180.00	372.9	BOLIN #1B VERTICAL POINT
6	3341.8	0.00	0.00	3295.0	250.0	276.6	0.00	0.00	372.9	BOLIN #1B ICP
7	5790.8	0.00	0.00	5744.0	250.0	276.6	0.00	0.00	372.9	BOLIN #1B PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
608.0	608.0	NACIMIENTO
1959.0	1998.3	OJO ALAMO
2096.0	2139.7	KIRTLAND
2558.0	2604.8	FRUITLAND
3002.0	3048.8	PICTURED CLIFFS
3145.0	3191.8	LEWIS
3606.0	3652.8	HUERFANITO BENTONITE
3971.0	4017.8	CHACRA
4616.0	4662.8	UPPER CLIFF HOUSE
4650.0	4696.8	MASSIVE CLIFF HOUSE
4770.0	4816.8	MENEFEE
5244.0	5290.8	POINT LOOKOUT
5684.0	5730.8	MANCOS



BURLINGTON RESOURCES OIL & GAS COMPANY LP

BOLIN #1B

2448' FNL & 974' FEL

LOCATED IN THE SE/4 NE/4 OF SECTION 30,
T29N, R8W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HIGHWAY 64 FOR 8.5 MILES TO RIDGE ROAD.
- 2) TURN RIGHT AND TRAVEL 0.7 MILES.
- 3) TURN RIGHT, TRAVEL 500' THEN TURN LEFT ON TO THE MAIN DIRT ROAD.
- 4) TRAVEL 1.0 MILE TO AN INTERSECTION.
- 5) TURN RIGHT AND TRAVEL 1.1 MILES.
- 6) TURN RIGHT AND TRAVEL 500', STAY RIGHT AND TRAVEL 1.7 MILES TO AN INTERSECTION.
- 7) TURN LEFT AND TRAVEL 0.2 TO THE FLAGGED ACCESS ON THE RIGHT.

WELL FLAG LOCATED AT LAT. 36.69708° N, LONG. 107.71196° W (NAD 83).

