

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 29 2012

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

AMENDED

5 Lease Serial No

SF-078919

6 If Indian, Allottee or Tribe Name

SUNDRIY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1 Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

7 If Unit of CA/Agreement, Name and/or No.

SAN JUAN 29-7 UNIT

8. Well Name and No

SAN JUAN 29-7 UNIT 82M

2 Name of Operator

Burlington Resources Oil & Gas Company LP

9 API Well No

30-039-31080

3a. Address

PO Box 4289, Farmington, NM 87499

3b Phone No (include area code)

(505) 326-9700

10 Field and Pool or Exploratory Area

BLANCO MV / BASIN DK / BASIN MNCS

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface UNIT O (SW/SE), 775' FSL & 1535' FEL, SEC: 04, T29N, R07W

Bottomhole UNIT I (NE/SE), 1970' FSL & 710' FEL, SEC: 04, T29N, R07W

11 Country or Parish, State

Rio Arriba, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☒ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources request permission to deepen the 7" casing @ 3900' TVD, per NOI approval dated 11/02/11 to 4200' TVD, to reduce torque and drag drilling out 6 1/4" hole. Cement volumes will be adjusted accordingly. Attached is the revised Project Proposal, Directional Drill Plan & C102. Notified and received verbal approval on 06/22/12 from Steve Mason (BLM) & on 06/21/12 from Brandon Powell (OCD).

Charlie Pelletier

RCVD JUL 9 '12
OIL CONS. DIV.
DIST. 3

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT BELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Marie E. Jaramillo

Staff Regulatory Tech.

Title

Signature

Date

6/22/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salvors

Title

Petroleum Engineer

Date

7/12/12

Office

FFO

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction

(Instruction on page 2)

NMOCD

DIST. 3

Form C-102
Revised August 1, 2011

DISTRICT I
1625 N. French Dr., Hobbs, NM. 88240
Phone: (505) 393-8161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM. 88210
Phone: (505) 748-1283 Fax: (505) 748-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM. 87410
Phone: (505) 334-8178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM. 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE/MANCOS
*Property Code A728841, A728840	*Property Name SAN JUAN 29-7 UNIT		*Well Number 82M
*OCRID No.	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6209'

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
0	4	29N	7W		775'	SOUTH	1535'	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
1	4	29N	7W		1970'	SOUTH	710'	EAST	RIO ARRIBA
¹² Dedicated Acres 317.38 Acres - (E/2)			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ 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

8 7 6 5 LEASE # USA SF-078945 BOTTOM HOLE LAT. 36.75290° N (NAD83) LONG. 107.56972° W (NAD83) LAT. 36.45.17364° N (NAD27) LONG. 107.34.14673° W (NAD27) LEASE # USA SF-078919 WELL FLAG LAT. 36.74962° N (NAD83) LONG. 107.57253° W (NAD83) LAT. 36.44.97684° N (NAD27) LONG. 107.34.31532° W (NAD27) FND 5/8" REBAR W/ ORIGINAL STONE N 89°35'54" W 2642.15' (M) N 89°43' W 2643.96' (R)				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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ 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 OCTOBER 17, 2011 Date of Survey Signature and Seal of Professional Surveyor: DAVID R. RUSSELL REGISTERED PROFESSIONAL LAND SURVEYOR 10201 DAVID RUSSELL Certificate Number 10201				FND 3 1/2" BC GLO 1913 5253.24' (M) 5242.38' (R) BASIS OF BEARINGS N 0°04'36" W NORTH N 34°37'00" E 1448.59' 710' 1970' 1535' 775' 2642.15' (M) 2643.96' (R) FND 2 1/2" BC GLO 1913	



ConocoPhillips

SJB (NM Central)
SEC 04-T29N-R7W
San Juan 29-7 Unit 82M

OH

Plan: Plan 1

Standard Planning Report

21 June, 2012



Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well San Juan 29-7 Unit 82M
Company:	ConocoPhillips	TVD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Project:	SJB (NM Central)	MD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Site:	SEC 04-T29N-R7W	North Reference:	True
Well:	San Juan 29-7 Unit 82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Project	SJB (NM Central), New Mexico, S-Type MV/DK Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico Central 3002		Using geodetic scale factor

Site		SEC 04-T29N-R7W			
Site Position:		Northing:	2,094,754.55 ft	Latitude:	36° 44' 58.610 N
From:	Lat/Long	Easting:	112,713.24 ft	Longitude:	107° 34' 18.919 W
Position Uncertainty:	0 0 ft	Slot Radius:	"	Grid Convergence:	-0.79 °

Well	San Juan 29-7 Unit 82M, 775' FSL 1535' FEL					
Well Position	+N/-S	0.0 ft	Northing:	2,094,754.55 ft	Latitude:	36° 44' 58.610 N
	+E/-W	0.0 ft	Easting:	112,713.24 ft	Longitude:	107° 34' 18.919 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,209.0 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	2012/06/06	9.74	63.47	50,627

Design	Plan 1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	34.58

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,178.4	25.75	34.58	1,149.8	156.2	107.7	3.00	3.00	0.00	34.58	
3,643.7	25.75	34.58	3,370.2	1,038.0	715.6	0.00	0.00	0.00	0.00	
4,502.0	0.00	0.00	4,200.0	1,194.1	823.2	3.00	-3.00	0.00	180.00	SJ 29-7 #82M ICP
7,855.0	0.00	0.00	7,553.0	1,194.1	823.2	0.00	0.00	0.00	0.00	SJ 29-7 #82M PCP

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Company:	ConocoPhillips	TVD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Project:	SJB (NM Central)	MD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Site:	SEC 04-T29N-R7W	North Reference:	True
Well:	San Juan 29-7 Unit 82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)	
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	
230.0	0.00	0.00	230.0	0.0	0.0	0.0	0.00	0.00	0.00	
Surface Casing										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	2.40	34.58	400.0	1.4	1.0	1.7	3.00	3.00	0.00	
500.0	5.40	34.58	499.7	7.0	4.8	8.5	3.00	3.00	0.00	
600.0	8.40	34.58	599.0	16.9	11.6	20.5	3.00	3.00	0.00	
682.2	10.86	34.58	680.0	28.2	19.4	34.2	3.00	3.00	0.00	
NACIMIENTO										
700.0	11.40	34.58	697.5	31.0	21.4	37.7	3.00	3.00	0.00	
800.0	14.40	34.58	795.0	49.4	34.1	60.0	3.00	3.00	0.00	
900.0	17.40	34.58	891.1	72.0	49.6	87.4	3.00	3.00	0.00	
1,000.0	20.40	34.58	985.7	98.6	68.0	119.8	3.00	3.00	0.00	
1,100.0	23.40	34.58	1,078.5	129.3	89.2	157.1	3.00	3.00	0.00	
1,178.4	25.75	34.58	1,149.8	156.2	107.7	189.7	3.00	3.00	0.00	
1,200.0	25.75	34.58	1,169.2	163.9	113.0	199.1	0.00	0.00	0.00	
1,300.0	25.75	34.58	1,259.3	199.7	137.6	242.5	0.00	0.00	0.00	
1,400.0	25.75	34.58	1,349.4	235.4	162.3	286.0	0.00	0.00	0.00	
1,500.0	25.75	34.58	1,439.5	271.2	187.0	329.4	0.00	0.00	0.00	
1,600.0	25.75	34.58	1,529.5	307.0	211.6	372.8	0.00	0.00	0.00	
1,700.0	25.75	34.58	1,619.6	342.7	236.3	416.3	0.00	0.00	0.00	
1,800.0	25.75	34.58	1,709.7	378.5	260.9	459.7	0.00	0.00	0.00	
1,900.0	25.75	34.58	1,799.7	414.3	285.6	503.2	0.00	0.00	0.00	
2,000.0	25.75	34.58	1,889.8	450.1	310.3	546.6	0.00	0.00	0.00	
2,100.0	25.75	34.58	1,979.9	485.8	334.9	590.1	0.00	0.00	0.00	
2,200.0	25.75	34.58	2,069.9	521.6	359.6	633.5	0.00	0.00	0.00	
2,281.1	25.75	34.58	2,143.0	550.6	379.6	668.8	0.00	0.00	0.00	
OJO ALAMO										
2,300.0	25.75	34.58	2,160.0	557.4	384.2	677.0	0.00	0.00	0.00	
2,400.0	25.75	34.58	2,250.1	593.1	408.9	720.4	0.00	0.00	0.00	
2,411.0	25.75	34.58	2,260.0	597.1	411.6	725.2	0.00	0.00	0.00	
KIRTLAND										
2,500.0	25.75	34.58	2,340.1	628.9	433.6	763.9	0.00	0.00	0.00	
2,600.0	25.75	34.58	2,430.2	664.7	458.2	807.3	0.00	0.00	0.00	
2,700.0	25.75	34.58	2,520.3	700.4	482.9	850.8	0.00	0.00	0.00	
2,800.0	25.75	34.58	2,610.4	736.2	507.5	894.2	0.00	0.00	0.00	
2,900.0	25.75	34.58	2,700.4	772.0	532.2	937.6	0.00	0.00	0.00	
3,000.0	25.75	34.58	2,790.5	807.7	556.9	981.1	0.00	0.00	0.00	
3,007.2	25.75	34.58	2,797.0	810.3	558.6	984.2	0.00	0.00	0.00	
FRUITLAND										
3,100.0	25.75	34.58	2,880.6	843.5	581.5	1,024.5	0.00	0.00	0.00	
3,200.0	25.75	34.58	2,970.6	879.3	606.2	1,068.0	0.00	0.00	0.00	
3,297.0	25.75	34.58	3,058.0	914.0	630.1	1,110.1	0.00	0.00	0.00	
PICTURED CLIFFS										
3,300.0	25.75	34.58	3,060.7	915.1	630.8	1,111.4	0.00	0.00	0.00	
3,400.0	25.75	34.58	3,150.8	950.8	655.5	1,154.9	0.00	0.00	0.00	
3,454.7	25.75	34.58	3,200.0	970.4	669.0	1,178.6	0.00	0.00	0.00	
LEWIS										
3,500.0	25.75	34.58	3,240.8	986.6	680.2	1,198.3	0.00	0.00	0.00	
3,600.0	25.75	34.58	3,330.9	1,022.4	704.8	1,241.8	0.00	0.00	0.00	

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Project:	SJB (NM Central)	MD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Site:	SEC 04-T29N-R7W	North Reference:	True
Well:	San Juan 29-7 Unit 82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
3,643.7	25.75	34.58	3,370.2	1,038.0	715.6	1,260.7	0.00	0.00	0.00
3,700.0	24.06	34.58	3,421.3	1,057.5	729.0	1,284.5	3.00	-3.00	0.00
3,800.0	21.06	34.58	3,513.7	1,089.1	750.8	1,322.8	3.00	-3.00	0.00
3,900.0	18.06	34.58	3,607.9	1,116.7	769.8	1,356.3	3.00	-3.00	0.00
4,000.0	15.06	34.58	3,703.7	1,140.1	786.0	1,384.8	3.00	-3.00	0.00
4,099.1	12.09	34.58	3,800.0	1,159.3	799.2	1,408.0	3.00	-3.00	0.00
HUERFANITO BENTONITE									
4,100.0	12.06	34.58	3,800.9	1,159.4	799.3	1,408.2	3.00	-3.00	0.00
4,200.0	9.06	34.58	3,899.2	1,174.5	809.7	1,426.6	3.00	-3.00	0.00
4,300.0	6.06	34.58	3,998.3	1,185.4	817.2	1,439.7	3.00	-3.00	0.00
4,382.0	3.60	34.58	4,080.0	1,191.0	821.1	1,446.6	3.00	-3.00	0.00
CHACRA									
4,400.0	3.06	34.58	4,098.0	1,191.9	821.7	1,447.7	3.00	-3.00	0.00
4,500.0	0.06	34.58	4,198.0	1,194.1	823.2	1,450.4	3.00	-3.00	0.00
4,502.0	0.00	0.00	4,200.0	1,194.1	823.2	1,450.4	3.00	-3.00	-1,695.37
Intermediate Casing									
4,600.0	0.00	0.00	4,298.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
4,700.0	0.00	0.00	4,398.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
4,800.0	0.00	0.00	4,498.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
4,900.0	0.00	0.00	4,598.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,000.0	0.00	0.00	4,698.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,100.0	0.00	0.00	4,798.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,122.0	0.00	0.00	4,820.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
5,200.0	0.00	0.00	4,898.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,209.0	0.00	0.00	4,907.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
MENEFFEE									
5,300.0	0.00	0.00	4,998.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,400.0	0.00	0.00	5,098.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,500.0	0.00	0.00	5,198.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,582.0	0.00	0.00	5,280.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
MASSIVE POINT LOOKOUT									
5,600.0	0.00	0.00	5,298.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,700.0	0.00	0.00	5,398.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,800.0	0.00	0.00	5,498.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,900.0	0.00	0.00	5,598.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
5,967.0	0.00	0.00	5,665.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
MANCOS									
6,000.0	0.00	0.00	5,698.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,100.0	0.00	0.00	5,798.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,200.0	0.00	0.00	5,898.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,300.0	0.00	0.00	5,998.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,400.0	0.00	0.00	6,098.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,500.0	0.00	0.00	6,198.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,600.0	0.00	0.00	6,298.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,700.0	0.00	0.00	6,398.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,800.0	0.00	0.00	6,498.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
6,816.0	0.00	0.00	6,514.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
UPPER GALLUP									
6,900.0	0.00	0.00	6,598.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,000.0	0.00	0.00	6,698.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,100.0	0.00	0.00	6,798.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,200.0	0.00	0.00	6,898.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well San Juan 29-7 Unit 82M
Company:	ConocoPhillips	TVD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Project:	SJB (NM, Central)	MD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Site:	SEC 04-T29N-R7W	North Reference:	True
Well:	San Juan 29-7 Unit 82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
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)
7,300.0	0.00	0.00	6,998.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,400.0	0.00	0.00	7,098.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,500.0	0.00	0.00	7,198.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,543.0	0.00	0.00	7,241.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
GREENHORN									
7,597.0	0.00	0.00	7,295.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
GRANEROS									
7,600.0	0.00	0.00	7,298.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,660.0	0.00	0.00	7,358.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
TWO WELLS									
7,700.0	0.00	0.00	7,398.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,758.0	0.00	0.00	7,456.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
UPPER CUBERO									
7,785.0	0.00	0.00	7,483.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
LOWER CUBERO									
7,800.0	0.00	0.00	7,498.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
7,855.0	0.00	0.00	7,553.0	1,194.1	823.2	1,450.4	0.00	0.00	0.00
ENCINAL - Production Casing									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 29-7 #82M ICP	0.00	0.00	4,200.0	1,194.1	823.2	2,095,937.29	113,552.94	36° 45' 10.418 N	107° 34' 8.804 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 29-7 #82M PCP	0.00	0.00	7,553.0	1,194.1	823.2	2,095,937.29	113,552.94	36° 45' 10.418 N	107° 34' 8.804 W
- plan hits target center									
- Circle (radius 100.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
230.0	230.0	Surface Casing	9-5/8	12-1/4	
4,502.0	4,200.0	Intermediate Casing	7	8-3/4	
7,855.0	7,553.0	Production Casing	4-1/2	6-1/4	

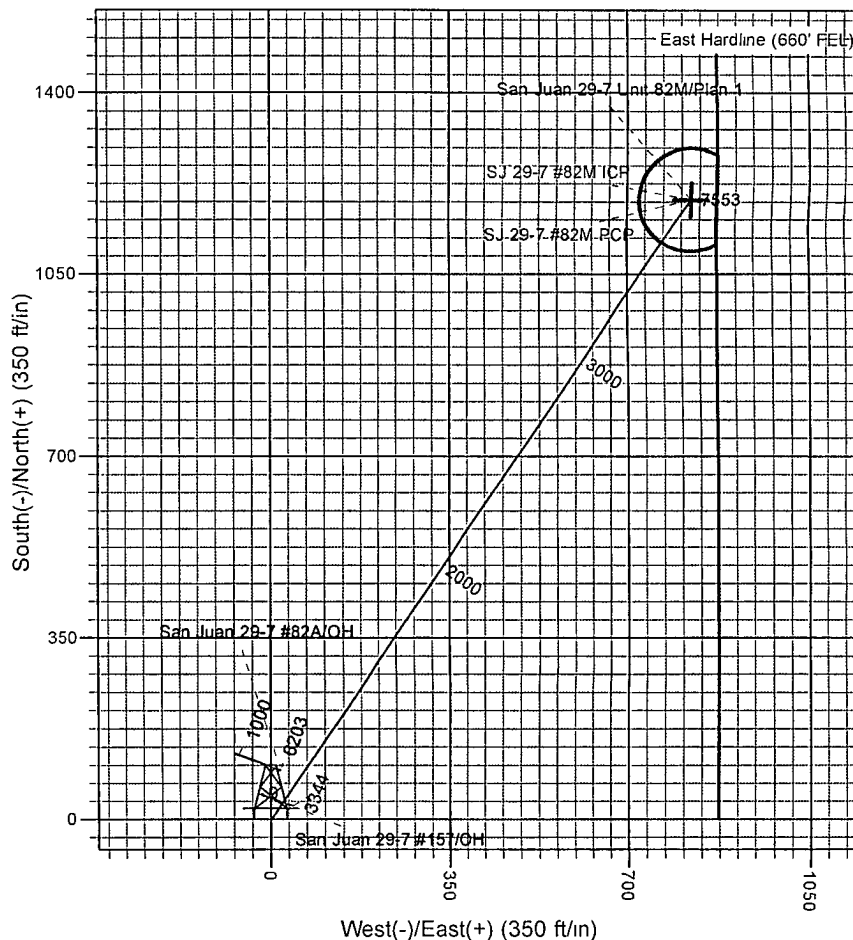
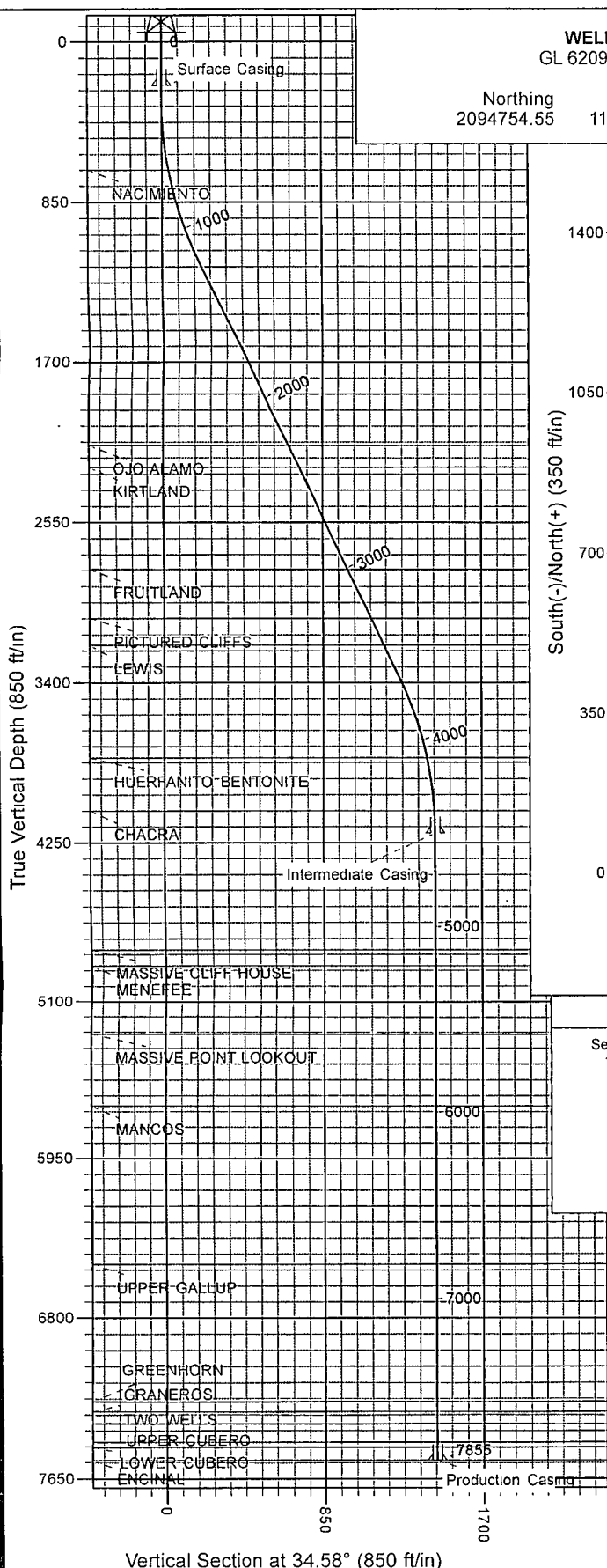
Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well San Juan 29-7 Unit 82M
Company:	ConocoPhillips	TVD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Project:	SJB (NM Central)	MD Reference:	GL 6209' & KB 15' @ 6224.0ft (AWS 730)
Site:	SEC 04-T29N-R7W	North Reference:	True
Well:	San Juan 29-7 Unit 82M	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
682.2	680.0	NACIMIENTO		0.00		
2,281.1	2,143.0	OJO ALAMO		0.00		
2,411.0	2,260.0	KIRTLAND		0.00		
3,007.2	2,797.0	FRUITLAND		0.00		
3,297.0	3,058.0	PICTURED CLIFFS		0.00		
3,454.7	3,200.0	LEWIS		0.00		
4,099.1	3,800.0	HUERFANITO BENTONITE		0.00		
4,382.0	4,080.0	CHACRA		0.00		
5,122.0	4,820.0	MASSIVE CLIFF HOUSE		0.00		
5,209.0	4,907.0	MENEFEE		0.00		
5,582.0	5,280.0	MASSIVE POINT LOOKOUT		0.00		
5,967.0	5,665.0	MANCOS		0.00		
6,816.0	6,514.0	UPPER GALLUP		0.00		
7,543.0	7,241.0	GREENHORN		0.00		
7,597.0	7,295.0	GRANEROS		0.00		
7,660.0	7,358.0	TWO WELLS		0.00		
7,758.0	7,456.0	UPPER CUBERO		0.00		
7,785.0	7,483.0	LOWER CUBERO		0.00		
7,855.0	7,553.0	ENCINAL		0.00		

WELL DETAILS: San Juan 29-7 Unit 82M
 GL 6209' & KB 15' @ 6224.0ft (AWS 730)
 Ground Level 6209.0

Northing 2094754.55 Easting 112713.24 Latitude 36° 44' 58.610 N Longitude 107° 34' 18.919 W

Compass Rose:
 T M Azimuths to True North
 Magnetic North: 9 74'
 Magnetic Field
 Strength 50627 4sn1
 Dip Angle: 63 47'
 Date 2012/06/06
 Model: BGGM2012



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	1178.4	25.75	34.58	1149.8	156.2	107.7	3.00	34.58	189.7	
4	3643.7	25.75	34.58	3370.2	1038.0	715.6	0.00	0.00	1260.7	
5	4502.0	0.00	0.00	4200.0	1194.1	823.2	3.00	180.00	1450.4	SJ 29-7 #82M ICP
6	7855.0	0.00	0.00	7553.0	1194.1	823.2	0.00	0.00	1450.4	SJ 29-7 #82M PCP

Date: 11:32, June 21 2012

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well San Juan 29-7 Unit 82M, True North
 Vertical (TVD) Reference: GL 6209' & KB 15' @ 6224.0ft (AWS 730)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: GL 6209' & KB 15' @ 6224.0ft (AWS 730)
 Calculation Method: Minimum Curvature

PROJECT DETAILS: SJB (NM Central)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico Central 3002
 System Datum: Mean Sea Level

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 82M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7164				AFE \$: 2,195,528.50	
Field Name: SAN JUAN 29-7 UNIT		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA		API #: 3003931080
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
RCO085	MANCOS(RCO085)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.749615	Longitude: -107.571921	X:	Y:	Section: 04		Range: 007W	
Footage X: 1535 FEL	Footage Y: 775 FSL	Elevation: 6209 (FT)		Township: 029N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.752744	Longitude: -107.568392	X:	Y:	Section: 04		Range: 007W	
Footage X: 500 FEL	Footage Y: 1920 FSL	Elevation:		Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6225 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	5995		☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 144 cuft. Circulate cement to surface.
NACIMIENTO	680	5545		☐			
OJO ALAMO	2143	4082		☐			
KIRTLAND	2260	3965		☐			
FRUITLAND	2797	3428		☐			Possible Gas
PICTURED CLIFFS	3058	3167		☐			
LEWIS	3200	3025		☐			
HUERFANITO BENTONITE	3800	2425		☐			
CHACRA	4080	2145		☐			
Intermediate Casing	4200	2025		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1015 cuft. Circulate cement to surface.
MASSIVE CLIFF HOUSE	4820	1405		☐	475		Gas
MENEFEE	4907	1318		☐			
MASSIVE POINT LOOKOUT	5280	945		☐			
MANCOS	5665	560		☐			
UPPER GALLUP	6514	-289		☐			
GREENHORN	7241	-1016		☐			
GRANEROS	7295	-1070		☐			
TWO WELLS	7358	-1133		☐	2325		Gas
UPPER CUBERO	7456	-1231		☐			
LOWER CUBERO	7483	-1258		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 82M

DEVELOPMENT

TOTAL DEPTH DK	7553	-1328	☐	6-1/4" Hole. 4-1/2", 11.6 ppf, J-55 LTC casing. Cement with 442 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7553	-1328	☐	
BURRO CANYON	7594	-1369	☐	
MORRISON	7674	-1449	☐	

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

Quad Combo & ECS - Est bottom perf ~15' above TD. Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD. Top perf ~T/Chacra

Additional Information:

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