

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 27 2007

Sundry Notices and Reports on Wells

Bureau of Land Management
Farmington Field Office

1. Type of Well

GAS

2. Name of Operator

ConocoPhillips

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Surf: Unit F (SENW), 1705' FNL & 1945' FWL, Section 22, T28N, R7W, NMPM

BH: Unit B(NWNE), 400' FNL & 2400' FEL, Section 22, T28N, R7W, NMPM

5. Lease Number
NMSF-079289-A
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
San Juan 28-7 Unit
8. Well Name & Number
San Juan 28-7 Unit 159G
9. API Well No.
30-039-30262
10. Field and Pool
Blanco MV/Basin DK

Rio Arriba Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

- ☒ Notice of Intent
- ☐ Subsequent Report
- ☐ Final Abandonment

Type of Action

- ☐ Abandonment ☐ Change of Plans
- ☐ Plugging ☐ Non-Routine Fracturing
- ☐ Casing Repair ☐ Water Shut off
- ☐ Altering Casing ☐ Conversion to Injection

☒ Other - Change casing depth & TD

13. Describe Proposed or Completed Operations

Change of surface casing depth from 200' to 320', and TVD 7972' / FMD 8289'.

Cement plan will be adjusted according.

Attached is a new Project Proposal and DD survey.

RCVD OCT 4 '07

OIL CONS. DIV.

DIST. 3

14. I hereby certify that the foregoing is true and correct.

Signed

Rhonda Rogers

Rhonda Rogers Title Regulatory Technician Date 9/26/07

(This space for Federal or State Office use)

APPROVED BY *Troy L. Salyers*Title *Petroleum Engineer*Date *10/03/07*

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NMOCD

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 159G

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7162				AFE \$:	
Field Name: 28-7		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #: 3003930262	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Glaser, Terry J		Phone: (832)486-2332		Prod. Engineer: Fontenot, Jessie C		Phone: +1 832-486-3483	
Res. Engineer: Johnson, Tom B.		Phone: (832)-486-2347		Proj. Field Lead: Fransen, Eric E.		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.650551	Longitude: -107.563637	X:	Y:	Section: 22	Range: 007W		
Footage X: 1945 FWL	Footage Y: 1705 FNL	Elevation: 6806	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.652794	Longitude: -107.559391	X:	Y:	Section: 22	Range: 007W		
Footage X: 2400 FEL	Footage Y: 100 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2007		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6820		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
SURFACE CSG	320	6500	☐			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 244 cuft. Circulated Cmt to surface.	
NCMT	1307	5513	☐				
OJAM	2648	4172	☐			Possible water flows.	
KRLD	2745	4075	☐				
FRLD	3055	3765	☐			Possible gas.	
PCCF	3476	3344	☐				
LEWS	3586	3234	☐				
HUERFANITO BENTONITE	4086	2734	☐				
CHRA	4455	2365	☐				
Intermediate Casing	4980	1840	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC casing. Cement with 1116 cuft. Circulate cement to surface.	
UCLFH	5030	1790	☐			Gas; possibly wet	
MASSIVE CLIFF HOUSE	5129	1691	☐				
MENF	5277	1543	☐			Gas.	
PTLK	5679	1141	☐			Gas.	
MANCOS	6159	661	☐				
GLLP	6914	-94	☐			Gas. Possibly wet.	
GRHN	7650	-830	☐			Gas possible, highly fractured	
GRRS	7716	-896	☐				
TWLS	7754	-934	☐			Gas	
PAGU	7844	-1024	☐			Gas. Highly Fractured.	
CBBO	7870	-1050	☐			Gas	
CBRL	7899	-1079	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 159G

DEVELOPMENT

ENCINAL	7962	-1142	☐		
TOTAL DEPTH DK	7972	-1152	☐	2000	6-1/4" hole. 4 -/2", 11.6 ppf, L-80, LTC casing. Cement with 411 cuft. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Production	28-7 #220M	NW 22-28N-7 W
Production	28-7 #159	NE 22-28N-7 W, ON strike

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
	GR_CBL
	Mudlog from 100' above GRHN to TD - mudlogger will call TD.

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

Comments: Location/Tops/Logging - Surface loc changed to accommodate a 4 well pad. Surf will be near the #220M (1,490 FNL 1,800 FWL) DK 28N07W22NE2 MVNMO28N007W22NE2



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

**SAN JUAN BASIN
SEC 22-T28N-R7W
SJ 28-7 UNIT 159G
ST00BP00**

Plan: Plan #3 Rev #1

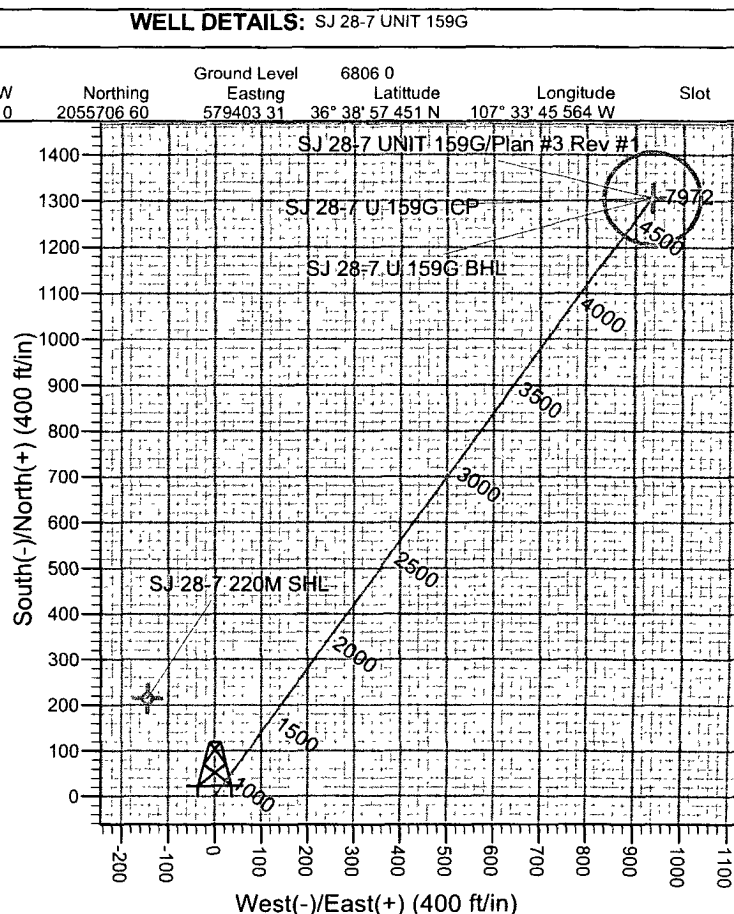
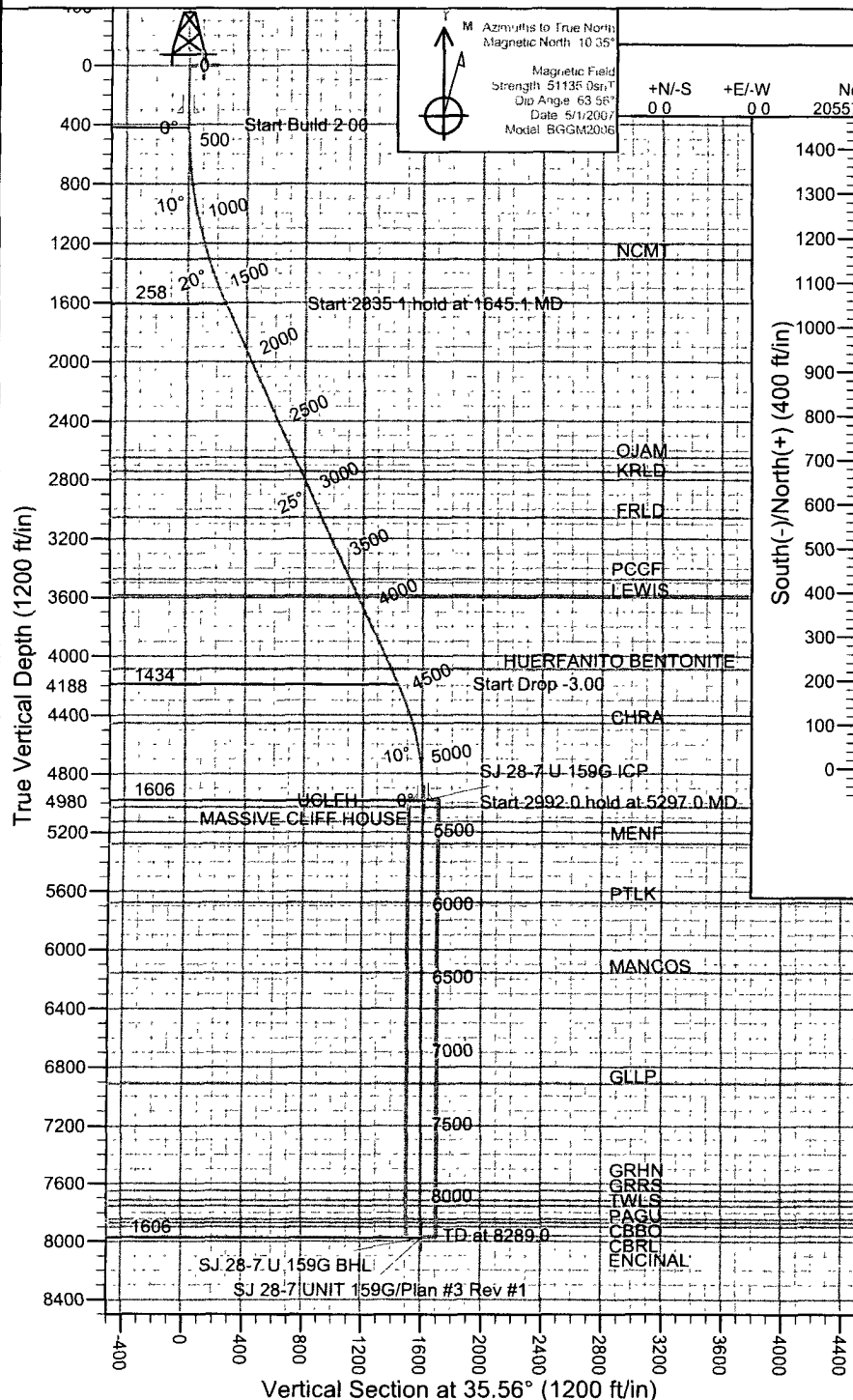
Standard Planning Report

24 September, 2007


ConocoPhillips



Project: SAN JUAN BASIN
 Site: SEC 22-T28N-R7W
 Well: SJ 28-7 UNIT 159G
 Wellbore: ST00BP00
 Design: Plan #3 Rev #1



PROJECT DETAILS: SAN JUAN BASIN
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico West 3003
 System Datum: Mean Sea Level

SITE DETAILS: SEC 22-T28N-R7W
 Farmington
 Site Centre Latitude: 36° 39' 1.984 N
 Longitude: 107° 33' 49.093 W
 Positional Uncertainty: 0.0
 Convergence: 0.16
 Local North: True

REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well SJ 28-7 UNIT 159G, True North
 Vertical (TVD) Reference: RKB @ 6821.0ft (AWS 711)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: RKB @ 6821.0ft (AWS 711)
 Calculation Method: Minimum Curvature

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	420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.0	
3	1645.1	24.50	35.56	1608.1	209.9	150.0	2.00	35.56	258.0	
4	4480.2	24.50	35.56	4187.9	1166.4	833.9	0.00	0.00	1433.8	
5	5297.0	0.00	0.00	4980.0	1306.3	933.9	3.00	180.00	1605.8	SJ 28-7 U 159G ICP
6	8289.0	0.00	0.00	7972.0	1306.3	933.9	0.00	0.00	1605.8	SJ 28-7 U 159G BHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SJ 28-7 220M SHL	0.0	215.0	-145.0	2055921.17	579257.72	36° 38' 59.577 N	107° 33' 47.343 W	Circle (Radius 10.0)
SJ 28-7 U 159G ICP	4980.0	1306.3	933.9	2057015.42	580333.45	36° 39' 10.368 N	107° 33' 34.104 W	Circle (Radius 100.0)
SJ 28-7 U 159G BHL	7972.0	1306.3	933.9	2057015.42	580333.42	36° 39' 10.368 N	107° 33' 34.104 W	Circle (Radius 100.0)

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 UNIT 159G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6821.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6821.0ft (AWS 711)
Site:	SEC 22-T28N-R7W	North Reference:	True
Well:	SJ 28-7 UNIT 159G	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST00BP00		
Design:	Plan #3 Rev #1		

Project	SAN JUAN BASIN, NEW MEXICO		
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 West 3003		Using geodetic scale factor

Site	SEC 22-T28N-R7W		
Site Position:		Northing:	2,056,164.11 ft
From:	Lat/Long	Easting:	579,114.44 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 39' 1.984 N
		Longitude:	107° 33' 49.093 W
		Grid Convergence:	0.16 °

Well	SJ 28-7 UNIT 159G		
Well Position	+N/-S	0.0 ft	Northing: 2,055,706.60 ft
	+E/-W	0.0 ft	Easting: 579,403.31 ft
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 38' 57.451 N
		Longitude:	107° 33' 45.564 W
		Ground Level:	6,806.0 ft

Wellbore	ST00BP00				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2006	5/1/2007	(°)	(°)	(nT)
			10.35	63.56	51,135

Design	Plan #3 Rev #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	7,972.0	0.0	0.0	35.56

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	
420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,645.1	24.50	35.56	1,608.1	209.9	150.0	2.00	2.00	0.00	35.56	
4,480.2	24.50	35.56	4,187.9	1,166.4	833.9	0.00	0.00	0.00	0.00	
5,297.0	0.00	0.00	4,980.0	1,306.3	933.9	3.00	-3.00	0.00	180.00	SJ 28-7 U 159G ICI
8,289.0	0.00	0.00	7,972.0	1,306.3	933.9	0.00	0.00	0.00	0.00	SJ 28-7 U 159G BF

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 UNIT. 159G
Wellbore: ST00BP00
Design: Plan #3 Rev #1

Local Co-ordinate Reference: Well SJ 28-7 UNIT 159G
TVD Reference: RKB @ 6821.0ft (AWS 711)
MD Reference: RKB @ 6821.0ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
SJ 28-7 220M SHL									
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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
420.0	0.00	0.00	420.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.60	35.56	500.0	0.9	0.6	1.1	2.00	2.00	0.00
600.0	3.60	35.56	599.9	4.6	3.3	5.7	2.00	2.00	0.00
700.0	5.60	35.56	699.6	11.1	8.0	13.7	2.00	2.00	0.00
800.0	7.60	35.56	798.9	20.5	14.6	25.2	2.00	2.00	0.00
900.0	9.60	35.56	897.8	32.6	23.3	40.1	2.00	2.00	0.00
1,000.0	11.60	35.56	996.0	47.6	34.0	58.5	2.00	2.00	0.00
1,100.0	13.60	35.56	1,093.6	65.3	46.7	80.3	2.00	2.00	0.00
1,200.0	15.60	35.56	1,190.4	85.8	61.4	105.5	2.00	2.00	0.00
1,300.0	17.60	35.56	1,286.2	109.1	78.0	134.1	2.00	2.00	0.00
1,321.8	18.04	35.56	1,307.0	114.5	81.9	140.8	2.00	2.00	0.00
NCMT									
1,400.0	19.60	35.56	1,381.0	135.0	96.5	166.0	2.00	2.00	0.00
1,500.0	21.60	35.56	1,474.6	163.7	117.0	201.2	2.00	2.00	0.00
1,600.0	23.60	35.56	1,566.9	194.9	139.3	239.6	2.00	2.00	0.00
1,645.1	24.50	35.56	1,608.1	209.9	150.0	258.0	2.00	2.00	0.00
1,700.0	24.50	35.56	1,658.1	228.4	163.3	280.8	0.00	0.00	0.00
1,800.0	24.50	35.56	1,749.0	262.1	187.4	322.2	0.00	0.00	0.00
1,900.0	24.50	35.56	1,840.0	295.9	211.5	363.7	0.00	0.00	0.00
2,000.0	24.50	35.56	1,931.0	329.6	235.6	405.2	0.00	0.00	0.00
2,100.0	24.50	35.56	2,022.0	363.3	259.8	446.6	0.00	0.00	0.00
2,200.0	24.50	35.56	2,113.0	397.1	283.9	488.1	0.00	0.00	0.00
2,300.0	24.50	35.56	2,204.0	430.8	308.0	529.6	0.00	0.00	0.00
2,400.0	24.50	35.56	2,295.0	464.6	332.1	571.1	0.00	0.00	0.00
2,500.0	24.50	35.56	2,386.0	498.3	356.2	612.5	0.00	0.00	0.00
2,600.0	24.50	35.56	2,477.0	532.0	380.4	654.0	0.00	0.00	0.00
2,700.0	24.50	35.56	2,568.0	565.8	404.5	695.5	0.00	0.00	0.00
2,787.9	24.50	35.56	2,648.0	595.4	425.7	731.9	0.00	0.00	0.00
OJAM									
2,800.0	24.50	35.56	2,659.0	599.5	428.6	737.0	0.00	0.00	0.00
2,894.5	24.50	35.56	2,745.0	631.4	451.4	776.2	0.00	0.00	0.00
KRLD									
2,900.0	24.50	35.56	2,750.0	633.2	452.7	778.4	0.00	0.00	0.00
3,000.0	24.50	35.56	2,841.0	667.0	476.8	819.9	0.00	0.00	0.00
3,100.0	24.50	35.56	2,932.0	700.7	501.0	861.4	0.00	0.00	0.00
3,200.0	24.50	35.56	3,023.0	734.5	525.1	902.8	0.00	0.00	0.00
3,235.2	24.50	35.56	3,055.0	746.3	533.6	917.4	0.00	0.00	0.00
FRLD									
3,300.0	24.50	35.56	3,114.0	768.2	549.2	944.3	0.00	0.00	0.00
3,400.0	24.50	35.56	3,205.0	801.9	573.3	985.8	0.00	0.00	0.00
3,500.0	24.50	35.56	3,296.0	835.7	597.4	1,027.3	0.00	0.00	0.00
3,600.0	24.50	35.56	3,386.9	869.4	621.6	1,068.7	0.00	0.00	0.00
3,697.9	24.50	35.56	3,476.0	902.4	645.2	1,109.3	0.00	0.00	0.00
PCCF									
3,700.0	24.50	35.56	3,477.9	903.1	645.7	1,110.2	0.00	0.00	0.00

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well SJ 28-7 UNIT 159G
Company:	ConocoPhillips	TVD Reference:	RKB @ 6821.0ft (AWS 711)
Project:	SAN JUAN BASIN	MD Reference:	RKB @ 6821.0ft (AWS 711)
Site:	SEC 22-T28N-R7W	North Reference:	True
Well:	SJ 28-7 UNIT 159G	Survey Calculation Method:	Minimum Curvature
Wellbore:	ST00BP00		
Design:	Plan #3 Rev #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)
3,800.0	24.50	35.56	3,568.9	936.9	669.8	1,151.7	0.00	0.00	0.00
3,818.8	24.50	35.56	3,586.0	943.2	674.3	1,159.5	0.00	0.00	0.00
LEWIS									
3,900.0	24.50	35.56	3,659.9	970.6	693.9	1,193.2	0.00	0.00	0.00
4,000.0	24.50	35.56	3,750.9	1,004.4	718.0	1,234.6	0.00	0.00	0.00
4,100.0	24.50	35.56	3,841.9	1,038.1	742.2	1,276.1	0.00	0.00	0.00
4,200.0	24.50	35.56	3,932.9	1,071.8	766.3	1,317.6	0.00	0.00	0.00
4,300.0	24.50	35.56	4,023.9	1,105.6	790.4	1,359.1	0.00	0.00	0.00
4,368.2	24.50	35.56	4,086.0	1,128.6	806.9	1,387.4	0.00	0.00	0.00
HUERFANITO BENTONITE									
4,400.0	24.50	35.56	4,114.9	1,139.3	814.5	1,400.5	0.00	0.00	0.00
4,480.2	24.50	35.56	4,187.9	1,166.4	833.9	1,433.8	0.00	0.00	0.00
4,500.0	23.91	35.56	4,205.9	1,173.0	838.6	1,441.9	3.00	-3.00	0.00
4,600.0	20.91	35.56	4,298.4	1,204.0	860.8	1,480.0	3.00	-3.00	0.00
4,700.0	17.91	35.56	4,392.7	1,231.0	880.1	1,513.3	3.00	-3.00	0.00
4,765.1	15.96	35.56	4,455.0	1,246.4	891.1	1,532.2	3.00	-3.00	0.00
CHRA									
4,800.0	14.91	35.56	4,488.6	1,254.0	896.5	1,541.5	3.00	-3.00	0.00
4,900.0	11.91	35.56	4,585.9	1,272.9	910.0	1,564.7	3.00	-3.00	0.00
5,000.0	8.91	35.56	4,684.2	1,287.6	920.5	1,582.8	3.00	-3.00	0.00
5,100.0	5.91	35.56	4,783.4	1,298.0	928.0	1,595.6	3.00	-3.00	0.00
5,200.0	2.91	35.56	4,883.1	1,304.3	932.5	1,603.3	3.00	-3.00	0.00
5,297.0	0.00	0.00	4,980.0	1,306.3	933.9	1,605.8	3.00	-3.00	-36.67
ICP - SJ 28-7 U 159G ICP									
5,300.0	0.00	0.00	4,983.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,347.0	0.00	0.00	5,030.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
UCLFH									
5,400.0	0.00	0.00	5,083.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,446.0	0.00	0.00	5,129.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
5,500.0	0.00	0.00	5,183.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,594.0	0.00	0.00	5,277.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
MENF									
5,600.0	0.00	0.00	5,283.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,383.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,483.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,583.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
5,996.0	0.00	0.00	5,679.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
PTLK									
6,000.0	0.00	0.00	5,683.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,100.0	0.00	0.00	5,783.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,200.0	0.00	0.00	5,883.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,300.0	0.00	0.00	5,983.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,083.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,476.0	0.00	0.00	6,159.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
MANCOS									
6,500.0	0.00	0.00	6,183.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,283.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,383.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,483.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,583.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,683.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,100.0	0.00	0.00	6,783.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00

Database: EDM 2003.16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 UNIT 159G
Wellbore: ST00BP00
Design: Plan #3 Rev #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well SJ 28-7 UNIT 159G
 RKB @ 6821.0ft (AWS 711)
 RKB @ 6821.0ft (AWS 711)
 True
 Minimum Curvature

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)
7,200.0	0.00	0.00	6,883.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,231.0	0.00	0.00	6,914.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
GLLP									
7,300.0	0.00	0.00	6,983.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,083.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,183.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,283.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,383.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,483.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,583.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
7,967.0	0.00	0.00	7,650.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
GRHN									
8,000.0	0.00	0.00	7,683.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
8,033.0	0.00	0.00	7,716.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
GRRS									
8,071.0	0.00	0.00	7,754.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
TWLS									
8,100.0	0.00	0.00	7,783.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
8,161.0	0.00	0.00	7,844.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
PAGU									
8,187.0	0.00	0.00	7,870.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
CBBO									
8,200.0	0.00	0.00	7,883.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
8,216.0	0.00	0.00	7,899.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
CBRL									
8,279.0	0.00	0.00	7,962.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
ENCINAL									
8,289.0	0.00	0.00	7,972.0	1,306.3	933.9	1,605.8	0.00	0.00	0.00
SJ 28-7 U 159G BHL - SJ 28-7 U 159G BHL#2									

Targets
Target Name

hit/miss target - Shape	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 28-7 220M SHL - plan misses by 259.3ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E) - Circle (radius 10.0)	0.00	0.00	0.0	215.0	-145.0	2,055,921.17	579,257.72	36° 38' 59.577 N	107° 33' 47.343 W
SJ 28-7 U 159G BHL - plan hits target - Circle (radius 100.0)	0.00	0.17	7,972.0	1,306.3	933.9	2,057,015.42	580,333.42	36° 39' 10.368 N	107° 33' 34.104 W
SJ 28-7 U 159G ICP - plan hits target - Circle (radius 100.0)	0.00	0.17	4,980.0	1,306.3	933.9	2,057,015.42	580,333.45	36° 39' 10.368 N	107° 33' 34.104 W



Scientific Drilling
Planning Report



Database: EDM 2003 16 Single User Db
Company: ConocoPhillips
Project: SAN JUAN BASIN
Site: SEC 22-T28N-R7W
Well: SJ 28-7 UNIT 159G
Wellbore: ST00BP00
Design: Plan #3 Rev #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well SJ 28-7 UNIT 159G
RKB @ 6821 0ft (AWS 711)
RKB @ 6821 0ft (AWS 711)
True
Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
320 0	320 0	Surface	9-5/8	12-1/4
5,297 0	4,980 0	ICP	7	8-3/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,321.8	1,307.0	NCMT		0 00	
2,787 9	2,648.0	OJAM		0 00	
2,894 5	2,745 0	KRLD		0.00	
3,235.2	3,055.0	FRLD		0.00	
3,697.9	3,476.0	PCCF		0.00	
3,818.8	3,586.0	LEWIS		0 00	
4,368.2	4,086 0	HUERFANITO BENTONITE		0 00	
4,765 1	4,455.0	CHRA		0.00	
5,347.0	5,030.0	UCLFH		0 00	
5,446 0	5,129 0	MASSIVE CLIFF HOUSE		0.00	
5,594 0	5,277.0	MENF		0.00	
5,996 0	5,679.0	PTLK		0.00	
6,476.0	6,159.0	MANCOS		0 00	
7,231 0	6,914.0	GLLP		0.00	
7,967 0	7,650.0	GRHN		0.00	
8,033 0	7,716.0	GRRS		0.00	
8,071.0	7,754.0	TWLS		0 00	
8,161.0	7,844.0	PAGU		0.00	
8,187 0	7,870 0	CBBO		0.00	
8,216.0	7,899 0	CBRL		0.00	
8,279.0	7,962 0	ENCINAL		0.00	