

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 19 2012

Farmington Field Office
Bureau of Land Management
NOTICES AND REPORTS ON WELLS
Use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

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

5 Lease Serial No.

SF-078840

6 If Indian, Allottee or Tribe Name

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 28-7 Unit

8. Well Name and No

San Juan 28-7 Unit 110P

2 Name of Operator

ConocoPhillips Company

9 API Well No.

30-039-30972

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

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

Surface UNIT N (SESW), 1116' FSL & 1785' FWL, Sec. 19, T27N, R7W

Bottomhole UNIT N (SESW), 1242' FSL & 2416' FWL, Sec. 19, T27N, R7W

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

TYPE OF ACTION

☒ Notice of Intent☐ Acidize☐ Deepen☐ Production (Start/Resume)☐ Water Shut-Off☐ Subsequent Report☐ Alter Casing☐ Fracture Treat☐ Reclamation☐ Well Integrity☐ Casing Repair☐ New Construction☐ Recomplete☐ Other☐ Final Abandonment Notice☒ Change Plans☐ Plug and Abandon☐ Temporarily Abandon☐ Convert to Injection☐ Plug Back☐ Water Disposal

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.)

ConocoPhillips requests permission to change the Surface Casing Setting depth from the original APD depth of 200' to 320' and the APD approved setting depth of Intermediate Casing from 3,151' to 4,756' due to being below the wet Cliffhouse line. The Directional Plan and Project Proposal are attached.

RCVD JUL 25 '12
OIL CONS. DIV.
DIST. 3

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

DENISE JOURNEY

Title

REGULATORY TECHNICIAN

Signature

Denise Journey

Date

7/17/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

JUL 20 2012

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.

Office

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 A

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 110P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8464				AFE \$: 1,890,524.80	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #: 3003930972
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.554339	Longitude: -107.618821	X:	Y:	Section: 19		Range: 007W	
Footage X: 1785 FWL	Footage Y: 1116 FSL	Elevation: 6611	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.554665	Longitude: -107.616672	X:	Y:	Section: 19		Range: 007W	
Footage X: 2416 FWL	Footage Y: 1242 FSL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6626 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	320	6306		☐			12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 144 cuft. Circulate cement to surface.
NACIMIENTO	546	6080		☐			
OJO ALAMO	2084	4542		☐			
KIRTLAND	2223	4403		☐			
FRUITLAND	2491	4135		☐			Possible Gas
PICTURED CLIFFS	2918	3708		☐			
LEWIS	3039	3587		☐			
HUERFANITO BENTONITE	3358	3268		☐			
CHACRA	3833	2793		☐			
UPPER CLIFF HOUSE	4406	2220		☐			Cliffhouse is wet
MASSIVE CLIFF HOUSE	4574	2052		☐	310		Gas
MENEFEE	4602	2024		☐			Est. Top Perf - 4604 (2022)
Intermediate Casing	4756	1870		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1072 cuft. Circulate cement to surface.
POINT LOOKOUT	5208	1418		☐			
MANCOS	5528	1098		☐			
UPPER GALLUP	6366	260		☐			
GREENHORN	7151	-525		☐			
GRANEROS	7211	-585		☐			
TWO WELLS	7265	-639		☐	2959		Gas
PAGUATE	7290	-664		☐			
UPPER CUBERO	7367	-741		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 110P

DEVELOPMENT

LOWER CUBERO	7389	-763	☐	Est. Btm Perf - 7438 (- 812) based on offset wells
ENCINAL	7458	-832	☐	TD - T/ENCN ---add footage to TD if mud drilled
Total Depth	7458	-832	☐	194 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 358 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 28-7 UNIT-110	27N 7W 19 SW NE SW
Production	SJ 28-7-237M	27N 7W 19 SE NW SE
Production	SJ 28-7 UNIT-110M	27N 7W 19 NE SW NW

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.

Est bottom perf ~20' above the est TD.

Additional Information:

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

San Juan Basin - New Mexico West Wells

San Juan 28 Wells

SJ 28-7 #110P

SJ 28-7 #110P

Plan: Plan #1

Standard Planning Report

05 April, 2012

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #110P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6626 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6626 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #110P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-7 #110P		
Design:	Plan #1		

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: San Juan 28 Wells					
Site Position:		Northing:	2,042,566.26 ft	Latitude:	36° 36' 47.901 N
From:	Lat/Long	Easting:	563,690.29 ft	Longitude:	107° 36' 58.757 W
Position Uncertainty:	15 0 ft	Slot Radius:	"	Grid Convergence:	0.13 °

Well	SJ 28-7 #110P, S-Shaped, MV/DK, Short Step Out, Deep Set Int.					
Well Position	+N/-S	0.0 ft	Northing:	2,021,098.63 ft	Latitude:	36° 33' 15 621 N
	+E/-W	0.0 ft	Easting:	563,004.67 ft	Longitude:	107° 37' 7 754 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	6,611.0 ft

Wellbore	SJ 28-7 #110P				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	10/24/2011	9.77	63.32	50,587

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0 0	0.0	0 0	79.34	

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	
2,300.0	0 00	0.00	2,300.0	0.0	0.0	0 00	0.00	0 00	0.00	
3,503.2	24.06	79.34	3,468.2	46.0	244.7	2 00	2 00	0.00	79.34	
4,060.8	24.06	79.34	3,977.2	88.1	468.1	0.00	0.00	0 00	0 00	
4,862.9	0.00	0.00	4,756.0	118.8	631.2	3.00	-3.00	0.00	180 00	SJ 28-7 #110P - ICP
7,564.9	0 00	0.00	7,458 0	118 8	631.2	0 00	0.00	0 00	0.00	SJ 28-7 #110P - PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning	Local Co-ordinate Reference: Well SJ 28-7 #110P	
Company: ConocoPhillips SJBU	TVD Reference: WELL @ 6626.0ft (Original Well Elev)	
Project: San Juan Basin - New Mexico West Wells	MD Reference: WELL @ 6626.0ft (Original Well Elev)	
Site: San Juan 28 Wells	North Reference: True	
Well: SJ 28-7 #110P	Survey Calculation Method: Minimum Curvature	
Wellbore: SJ 28-7 #110P		
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
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 Csg									
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
546.0	0.00	0.00	546.0	0.0	0.0	0.0	0.00	0.00	0.00
NACIMIENTO									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,084.0	0.00	0.00	2,084.0	0.0	0.0	0.0	0.00	0.00	0.00
OJO ALAMO									
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,223.0	0.00	0.00	2,223.0	0.0	0.0	0.0	0.00	0.00	0.00
KIRTLAND									
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	2.00	79.34	2,400.0	0.3	1.7	1.7	2.00	2.00	0.00
2,491.1	3.82	79.34	2,491.0	1.2	6.3	6.4	2.00	2.00	0.00
FRUITLAND									
2,500.0	4.00	79.34	2,499.8	1.3	6.9	7.0	2.00	2.00	0.00
2,600.0	6.00	79.34	2,599.5	2.9	15.4	15.7	2.00	2.00	0.00
2,700.0	8.00	79.34	2,698.7	5.2	27.4	27.9	2.00	2.00	0.00
2,800.0	10.00	79.34	2,797.5	8.0	42.8	43.5	2.00	2.00	0.00
2,900.0	12.00	79.34	2,895.6	11.6	61.5	62.6	2.00	2.00	0.00
2,922.9	12.46	79.34	2,918.0	12.5	66.3	67.5	2.00	2.00	0.00
PICTURED CLIFFS									
3,000.0	14.00	79.34	2,993.1	15.7	83.6	85.1	2.00	2.00	0.00
3,047.5	14.95	79.34	3,039.0	17.9	95.3	97.0	2.00	2.00	0.00
LEWIS									
3,100.0	16.00	79.34	3,089.6	20.5	109.1	111.0	2.00	2.00	0.00
3,200.0	18.00	79.34	3,185.3	25.9	137.8	140.2	2.00	2.00	0.00
3,300.0	20.00	79.34	3,279.8	31.9	169.8	172.8	2.00	2.00	0.00
3,383.7	21.67	79.34	3,358.0	37.5	199.0	202.5	2.00	2.00	0.00
HUERFANITO BENTONITE									
3,400.0	22.00	79.34	3,373.2	38.6	205.0	208.6	2.00	2.00	0.00
3,500.0	24.00	79.34	3,465.2	45.8	243.4	247.7	2.00	2.00	0.00
3,503.2	24.06	79.34	3,468.2	46.0	244.7	249.0	2.00	2.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #110P
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6626 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6626 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #110P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-7 #110P		
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)
3,600.0	24.06	79.34	3,556.5	53.3	283.5	288.4	0.00	0.00	0.00
3,700.0	24.06	79.34	3,647.8	60.9	323.5	329.2	0.00	0.00	0.00
3,800.0	24.06	79.34	3,739.1	68.4	363.6	370.0	0.00	0.00	0.00
3,900.0	24.06	79.34	3,830.5	76.0	403.7	410.8	0.00	0.00	0.00
3,902.8	24.06	79.34	3,833.0	76.2	404.8	411.9	0.00	0.00	0.00
CHACRA									
4,000.0	24.06	79.34	3,921.8	83.5	443.8	451.6	0.00	0.00	0.00
4,060.8	24.06	79.34	3,977.2	88.1	468.1	476.3	0.00	0.00	0.00
4,100.0	22.89	79.34	4,013.2	91.0	483.5	492.0	3.00	-3.00	0.00
4,200.0	19.89	79.34	4,106.3	97.7	519.3	528.4	3.00	-3.00	0.00
4,300.0	16.89	79.34	4,201.2	103.5	550.3	560.0	3.00	-3.00	0.00
4,400.0	13.89	79.34	4,297.6	108.5	576.4	586.5	3.00	-3.00	0.00
4,500.0	10.89	79.34	4,395.3	112.4	597.5	607.9	3.00	-3.00	0.00
4,510.9	10.56	79.34	4,406.0	112.8	599.5	610.0	3.00	-3.00	0.00
UPPER CLIFF HOUSE									
4,600.0	7.89	79.34	4,493.9	115.4	613.5	624.3	3.00	-3.00	0.00
4,680.6	5.47	79.34	4,574.0	117.2	622.7	633.6	3.00	-3.00	0.00
MASSIVE CLIFF HOUSE									
4,700.0	4.89	79.34	4,593.3	117.5	624.4	635.4	3.00	-3.00	0.00
4,708.7	4.63	79.34	4,602.0	117.6	625.1	636.1	3.00	-3.00	0.00
MENEFEE									
4,800.0	1.89	79.34	4,693.1	118.6	630.2	641.3	3.00	-3.00	0.00
4,862.9	0.00	0.00	4,756.0	118.8	631.2	642.3	3.00	-3.00	0.00
Interm Csg									
4,900.0	0.00	0.00	4,793.1	118.8	631.2	642.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,893.1	118.8	631.2	642.3	0.00	0.00	0.00
5,100.0	0.00	0.00	4,993.1	118.8	631.2	642.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,093.1	118.8	631.2	642.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,193.1	118.8	631.2	642.3	0.00	0.00	0.00
5,314.9	0.00	0.00	5,208.0	118.8	631.2	642.3	0.00	0.00	0.00
POINT LOOKOUT									
5,400.0	0.00	0.00	5,293.1	118.8	631.2	642.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,393.1	118.8	631.2	642.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,493.1	118.8	631.2	642.3	0.00	0.00	0.00
5,634.9	0.00	0.00	5,528.0	118.8	631.2	642.3	0.00	0.00	0.00
MANCOS									
5,700.0	0.00	0.00	5,593.1	118.8	631.2	642.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,693.1	118.8	631.2	642.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,793.1	118.8	631.2	642.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,893.1	118.8	631.2	642.3	0.00	0.00	0.00
6,100.0	0.00	0.00	5,993.1	118.8	631.2	642.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,093.1	118.8	631.2	642.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,193.1	118.8	631.2	642.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,293.1	118.8	631.2	642.3	0.00	0.00	0.00
6,472.9	0.00	0.00	6,366.0	118.8	631.2	642.3	0.00	0.00	0.00
UPPER GALLUP									
6,500.0	0.00	0.00	6,393.1	118.8	631.2	642.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,493.1	118.8	631.2	642.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,593.1	118.8	631.2	642.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,693.1	118.8	631.2	642.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,793.1	118.8	631.2	642.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,893.1	118.8	631.2	642.3	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 28 Wells
 Well: SJ 28-7 #110P
 Wellbore: SJ 28-7 #110P
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 #110P
 TVD Reference: WELL @ 6626 0ft (Original Well Elev)
 MD Reference: WELL @ 6626 0ft (Original Well Elev)
 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)
7,100.0	0.00	0.00	6,993.1	118.8	631.2	642.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,093.1	118.8	631.2	642.3	0.00	0.00	0.00
7,257.9	0.00	0.00	7,151.0	118.8	631.2	642.3	0.00	0.00	0.00
GREENHORN									
7,300.0	0.00	0.00	7,193.1	118.8	631.2	642.3	0.00	0.00	0.00
7,317.9	0.00	0.00	7,211.0	118.8	631.2	642.3	0.00	0.00	0.00
GRANEROS									
7,371.9	0.00	0.00	7,265.0	118.8	631.2	642.3	0.00	0.00	0.00
TWO WELLS									
7,396.9	0.00	0.00	7,290.0	118.8	631.2	642.3	0.00	0.00	0.00
PAGUATE									
7,400.0	0.00	0.00	7,293.1	118.8	631.2	642.3	0.00	0.00	0.00
7,473.9	0.00	0.00	7,367.0	118.8	631.2	642.3	0.00	0.00	0.00
UPPER CUBERO									
7,500.0	0.00	0.00	7,393.1	118.8	631.2	642.3	0.00	0.00	0.00
7,564.9	0.00	0.00	7,458.0	118.8	631.2	642.3	0.00	0.00	0.00
Prod Csg									

Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 28-7 #110P - PCP	- plan hits target center - Point	0.00	0.00	7,458.0	118.8	631.2	2,021,218.81	563,635.60	36° 33' 16.795 N	107° 37' 0.018 W
SJ 28-7 #110P - ICP	- plan hits target center - Point	0.00	0.00	4,756.0	118.8	631.2	2,021,218.81	563,635.60	36° 33' 16.795 N	107° 37' 0.018 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
320.0	320.0	Surface Csg	9-5/8	12-1/4
4,862.9	4,756.0	Intern Csg	7	8-3/4
7,564.9	7,458.0	Prod Csg	4-1/2	6-1/4

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #110P
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6626.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6626 0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-7 #110P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 28-7 #110P		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,047.5	3,039.0	LEWIS				
7,371.9	7,265.0	TWO WELLS				
7,317.9	7,211.0	GRANEROS				
7,473.9	7,367.0	UPPER CUBERO				
6,472.9	6,366.0	UPPER GALLUP				
3,902.8	3,833.0	CHACRA				
5,314.9	5,208.0	POINT LOOKOUT				
5,634.9	5,528.0	MANCOS				
546.0	546.0	NACIMIENTO		0.00		
2,491.1	2,491.0	FRUITLAND				
4,708.7	4,602.0	MENEFEE				
4,680.6	4,574.0	MASSIVE CLIFF HOUSE				
7,396.9	7,290.0	PAGUATE				
2,223.0	2,223.0	KIRTLAND				
2,084.0	2,084.0	OJO ALAMO				
2,922.9	2,918.0	PICTURED CLIFFS				
3,383.7	3,358.0	HUERFANITO BENTONITE				
7,257.9	7,151.0	GREENHORN				
4,510.9	4,406.0	UPPER CLIFF HOUSE				

REFERENCE INFORMATION

WELL @ 6626.0ft (Original Well Elev)
Ground Elevation 6611.0
Reference Lat: 36° 33' 15.621 N
Reference Long: 107° 37' 7.754 W

Project: San Juan Basin - New Mexico West V
Site: San Juan 28 Wells
Well: SJ 28-7 #110P
Wellbore: SJ 28-7 #110P
Design: Plan #1

ConocoPhillips

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	2300.0	0.00	0.00	2300.0	0.0	0.0	0.00	0.00	0.0	
3	3513.0	24.26	79.09	3477.0	47.9	248.4	2.00	79.09	253.0	
4	4055.1	24.26	79.09	3971.3	90.1	467.1	0.00	0.00	475.7	
5	4863.7	0.00	0.00	4756.0	122.0	632.7	3.00	180.00	644.4	SJ 28-7 #110P - ICP
6	7565.7	0.00	0.00	7458.0	122.0	632.7	0.00	0.00	644.4	SJ 28-7 #110P - PCP

FORMATION TOP DETAILS

VDPPath	MDPath	Formation
546.0	546.0	NACIMIENTO
2084.0	2084.0	OJO ALAMO
2223.0	2223.0	KIRTLAND
2491.0	2491.1	FRUITLAND
2918.0	2922.9	PICTURED CLIFF
3039.0	3047.5	LEWIS
3358.0	3383.7	HUERFANITO BE
3833.0	3903.4	CHACRA
4406.0	4511.7	UPPER CLIFF HO
4574.0	4681.5	MASSIVE CLIFF H
4602.0	4709.6	MENEFEE
5208.0	5315.7	POINT LOOKOUT
5528.0	5635.7	MANCOS
6366.0	6473.7	UPPER GALLUP
7151.0	7258.7	GREENHORN
7211.0	7318.7	GRANEROS
7265.0	7372.7	TWO WELLS
7290.0	7397.7	PAGUATE
7367.0	7474.7	UPPER CUBERO

