

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 12 2013

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

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.		7. If Unit of CA/Agreement, Name and/or No. San Juan 28-7 Unit
1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	8. Well Name and No. San Juan 28-7 Unit 215N	
2. Name of Operator ConocoPhillips Company	9. API Well No. 30-039-31182	
3a. Address PO Box 4289, Farmington, NM 87499	3b. Phone No. (include area code) (505) 326-9700	10. Field and Pool or Exploratory Area Basin DK/Blanco MV
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Surface UL C (NE/NW), 380'FNL & 2175' FWL, Sec. 4, T27N, R7W Bottomhole UL D (NW/NW), 760'FNL & 1140' FWL, Sec. 7 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
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change surface casing depth
	☐ 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 Company wishes to change the surface casing depth of this well to a 320' depth. It was previously a 200' depth. Please see attached project proposal, directional drill plan & wall plot.

RCVD MAR 19 '13
OIL CONS. DIV.
DIST. 3

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

LESSEE'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

Operator Cancelled APD - Spacing Issues

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

Kenny Davis

Title Staff Regulatory Technician

Signature

Date

3/11/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salvers

Title Petroleum Engineer

Date 3/13/13

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 FFO

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.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 215N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1099		AFE \$: 1,632,363.78	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Johnson, David		Phone: +1 505-324-6169		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.609653	Longitude: -107.579334	X:	Y:	Section: 04	Range: 007W
Footage X: 2175 FWL	Footage Y: 380 FNL	Elevation: 6692	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.608619	Longitude: -107.582930	X:	Y:	Section: 04	Range: 007W
Footage X: 1140 FWL	Footage Y: 760 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2014		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6707 - Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
SAN JOSE	15	6692		☐	
Surface Casing	320	6387		☐	46
12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 168 cuft. Circulate cement to surface.					
NACIMIENTO	906	5801		☐	
OJO ALAMO	2385	4322		☐	
KIRTLAND	2526	4181		☐	
FRUITLAND	2836	3871		☐	Possible Gas
PICTURED CLIFFS	3253	3454		☐	644 107
LEWIS	3401	3306		☐	
HUERFANITO BENTONITE	3735	2972		☐	
CHACRA	4210	2497		☐	
UPPER CLIFF HOUSE	4803	1904		☐	
MASSIVE CLIFF HOUSE	4918	1789		☐	339
Gas - Est top MV perf 4922' tvd (~5' below T/CLFH).					
MENEFEE	5011	1696		☐	Gas
Intermediate Casing	5160	1547		☐	143
8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 910 cuft. Circulate cement to surface.					
POINT LOOKOUT	5514	1193		☐	Gas - Est bot MV perf 5694' tvd (~180' below T/PNLK).
MANCOS	5874	.833		☐	
UPPER GALLUP	6662	45		☐	
GREENHORN	7408	-701		☐	
GRANEROS	7469	-762		☐	
TWO WELLS	7512	-805		☐	2471 193
Gas - Est top DK perf 7522' tvd (~10' below T/TWLS).					
PAGUATE	7571	-864		☐	Gas

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 UNIT 215N

DEVELOPMENT

UPPER CUBERO	7631	-924	☐	Gas
LOWER CUBERO	7647	-940	☐	Gas - Est bot DK perf 7712' tvd (~65' below T/CBRL).
ENCINAL	7729	-1022	☐	Gas
Total Depth	7732	-1025	☐	197 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 536 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	7756	-1049	☐	
MORRISON	7848	-1141	☐	

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

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - MV/DKNM027N007W04NW2 Avoid C (SJ 28-7 Unit 215M, MV/DK, is already there). Directional option from SJ 28-7 Unit 215M. Prefer D, E, F. Topo is very rough.

Zones - MV/DKNM027N007W04NW2

General/Work Description - 6/7/12 -No H2S plan required - LAM

6-7-12 Pulled subtasks back to COV. Pad needs to be moved to Unit E or F. RAM to determine. HDM

5/22/12 Allocation: Commingle MV Separator test and DK spinner. No samples required. bommaf

NO LEWIS

6/3/11 - Economic as directional.--TLJ

4/17/09-cancel project is not economic as DD and there is no vertical option wfp (2010)

2/4/09-no longer economic as DD with Jan 09 price decks and DK assessment wfp

NO LEWIS

6/13/08-is economic as DD per RFrost wfp (doc mgmt)

4/22/08 (CLM) The MV in this wellbore is a spacing violation of the 28-7 95 (MV/PC dual). I have asked Production to look at the

5-19-08 Well was staked at a location outside of a N/2 spaing unit (for Dakota), consequently the well name needs to be changed. RPC

In doing the Plat Review Land it was noted that the dedicated acres needs to be 319.79 rather than 320. DSW emailed S.B. & W.P.

for correction by surveyor - 8/26/08 - DSW: all corrected. P.R. complete - 10/7/08.

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

San Juan 28 Wells

SJ 28-7 #215N

Principal Wellbore

Plan: Plan #2

Standard Planning Report - Geographic

11 March, 2013

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #215N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6707.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6707.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	Grid
Well:	SJ 28-7 #215N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #2		

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:	Lat/Long	Northing:	2,030,915.03 usft
From:		Easting:	569,619.08 usft
Position Uncertainty:	15.0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 34' 52.543 N
		Longitude:	107° 35' 46.386 W
		Grid Convergence:	0.14 °

Well:	SJ 28-7 #215N		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	15.0 usft	Wellhead Elevation:	Ground Level:
			6,692.0 usft

Wellbore:	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2007	1/5/2009	10.16	63.45	50,915

Design	Plan #2				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	250.22	

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	
420.0	0.00	0.00	420.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,656.4	24.73	250.22	1,618.3	-88.9	-247.2	2.00	2.00	0.00	250.22	
3,288.8	24.73	250.22	3,101.1	-319.9	-889.8	0.00	0.00	0.00	0.00	
4,113.1	0.00	0.00	3,900.0	-379.2	-1,054.5	3.00	-3.00	0.00	180.00	SJ 28-7 #215N VERT
5,373.1	0.00	0.00	5,160.0	-379.2	-1,054.5	0.00	0.00	0.00	0.00	SJ 28-7 #215N ICP
7,943.0	0.00	0.00	7,730.0	-379.2	-1,054.5	0.00	0.00	0.00	0.00	SJ 28-7 215N PCP

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #215N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6707.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6707.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	Grid
Well:	SJ 28-7 #215N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
100.0	0.00	0.00	100.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
200.0	0.00	0.00	200.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
300.0	0.00	0.00	300.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
320.0	0.00	0.00	320.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
Surf									
400.0	0.00	0.00	400.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
420.0	0.00	0.00	420.0	0.0	0.0	2,041,263.23	574,548.95	36° 36' 34.752 N	107° 34' 45.605 W
500.0	1.60	250.22	500.0	-0.4	-1.1	2,041,262.85	574,547.90	36° 36' 34.748 N	107° 34' 45.618 W
600.0	3.60	250.22	599.9	-1.9	-5.3	2,041,261.31	574,543.63	36° 36' 34.733 N	107° 34' 45.670 W
700.0	5.60	250.22	699.6	-4.6	-12.9	2,041,258.60	574,536.08	36° 36' 34.707 N	107° 34' 45.763 W
800.0	7.60	250.22	798.9	-8.5	-23.7	2,041,254.71	574,525.27	36° 36' 34.668 N	107° 34' 45.896 W
900.0	9.60	250.22	897.8	-13.6	-37.8	2,041,249.65	574,511.20	36° 36' 34.619 N	107° 34' 46.068 W
1,000.0	11.60	250.22	996.0	-19.8	-55.1	2,041,243.43	574,493.89	36° 36' 34.558 N	107° 34' 46.281 W
1,100.0	13.60	250.22	1,093.6	-27.2	-75.6	2,041,236.05	574,473.37	36° 36' 34.485 N	107° 34' 46.533 W
1,200.0	15.60	250.22	1,190.4	-35.7	-99.3	2,041,227.52	574,449.65	36° 36' 34.402 N	107° 34' 46.824 W
1,300.0	17.60	250.22	1,286.2	-45.4	-126.2	2,041,217.86	574,422.77	36° 36' 34.307 N	107° 34' 47.154 W
1,400.0	19.60	250.22	1,381.0	-56.2	-166.2	2,041,207.06	574,392.76	36° 36' 34.201 N	107° 34' 47.523 W
1,500.0	21.60	250.22	1,474.6	-68.1	-189.3	2,041,195.16	574,359.65	36° 36' 34.084 N	107° 34' 47.929 W
1,600.0	23.60	250.22	1,566.9	-81.1	-225.5	2,041,182.16	574,323.49	36° 36' 33.956 N	107° 34' 48.373 W
1,656.4	24.73	250.22	1,618.3	-88.9	-247.2	2,041,174.35	574,301.79	36° 36' 33.880 N	107° 34' 48.639 W
1,700.0	24.73	250.22	1,658.0	-95.1	-264.4	2,041,168.18	574,284.61	36° 36' 33.819 N	107° 34' 48.850 W
1,800.0	24.73	250.22	1,748.8	-109.2	-303.7	2,041,154.03	574,245.25	36° 36' 33.680 N	107° 34' 49.334 W
1,900.0	24.73	250.22	1,839.6	-123.4	-343.1	2,041,139.87	574,205.89	36° 36' 33.541 N	107° 34' 49.817 W
2,000.0	24.73	250.22	1,930.5	-137.5	-382.4	2,041,125.72	574,166.53	36° 36' 33.402 N	107° 34' 50.300 W
2,100.0	24.73	250.22	2,021.3	-151.7	-421.8	2,041,111.57	574,127.17	36° 36' 33.263 N	107° 34' 50.783 W
2,200.0	24.73	250.22	2,112.1	-165.8	-461.2	2,041,097.42	574,087.81	36° 36' 33.124 N	107° 34' 51.266 W
2,300.0	24.73	250.22	2,203.0	-180.0	-500.5	2,041,083.26	574,048.45	36° 36' 32.985 N	107° 34' 51.750 W
2,400.0	24.73	250.22	2,293.8	-194.1	-539.9	2,041,069.11	574,009.09	36° 36' 32.846 N	107° 34' 52.233 W
2,476.2	24.73	250.22	2,363.0	-204.9	-569.9	2,041,058.33	573,979.10	36° 36' 32.741 N	107° 34' 52.601 W
Ojo									
2,500.0	24.73	250.22	2,384.6	-208.3	-579.3	2,041,054.96	573,969.73	36° 36' 32.708 N	107° 34' 52.716 W
2,600.0	24.73	250.22	2,475.5	-222.4	-618.6	2,041,040.81	573,930.37	36° 36' 32.569 N	107° 34' 53.199 W
2,647.9	24.73	250.22	2,519.0	-229.2	-637.5	2,041,034.02	573,911.50	36° 36' 32.502 N	107° 34' 53.431 W
Kirtland									
2,700.0	24.73	250.22	2,566.3	-236.6	-658.0	2,041,026.66	573,891.01	36° 36' 32.430 N	107° 34' 53.683 W
2,800.0	24.73	250.22	2,657.1	-250.7	-697.3	2,041,012.50	573,851.65	36° 36' 32.291 N	107° 34' 54.166 W
2,900.0	24.73	250.22	2,747.9	-264.9	-736.7	2,040,998.35	573,812.29	36° 36' 32.152 N	107° 34' 54.649 W
2,987.0	24.73	250.22	2,827.0	-277.2	-771.0	2,040,986.03	573,778.04	36° 36' 32.031 N	107° 34' 55.070 W
Fruitland									
3,000.0	24.73	250.22	2,838.8	-279.0	-776.1	2,040,984.20	573,772.93	36° 36' 32.013 N	107° 34' 55.132 W
3,100.0	24.73	250.22	2,929.6	-293.2	-815.4	2,040,970.05	573,733.57	36° 36' 31.874 N	107° 34' 55.615 W
3,200.0	24.73	250.22	3,020.4	-307.4	-854.8	2,040,955.89	573,694.21	36° 36' 31.735 N	107° 34' 56.099 W
3,288.8	24.73	250.22	3,101.1	-319.9	-889.8	2,040,943.32	573,659.26	36° 36' 31.612 N	107° 34' 56.528 W
3,300.0	24.39	250.22	3,111.3	-321.5	-894.1	2,040,941.75	573,654.88	36° 36' 31.596 N	107° 34' 56.582 W
3,400.0	21.39	250.22	3,203.4	-334.7	-930.7	2,040,928.59	573,618.28	36° 36' 31.467 N	107° 34' 57.031 W
3,448.7	19.93	250.22	3,249.0	-340.5	-946.9	2,040,922.77	573,602.11	36° 36' 31.410 N	107° 34' 57.229 W
Pictured Cliffs									
3,500.0	18.39	250.22	3,297.4	-346.2	-962.7	2,040,917.08	573,586.27	36° 36' 31.354 N	107° 34' 57.424 W
3,600.0	15.39	250.22	3,393.1	-356.0	-990.1	2,040,907.25	573,558.94	36° 36' 31.257 N	107° 34' 57.759 W
3,608.2	15.15	250.22	3,401.0	-356.7	-992.1	2,040,906.52	573,556.91	36° 36' 31.250 N	107° 34' 57.784 W
Lewis									
3,700.0	12.39	250.22	3,490.2	-364.1	-1,012.7	2,040,899.13	573,536.35	36° 36' 31.178 N	107° 34' 58.037 W
3,800.0	9.39	250.22	3,588.3	-370.5	-1,030.5	2,040,892.74	573,518.57	36° 36' 31.115 N	107° 34' 58.255 W

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #215N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6707.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6707.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	Grid
Well:	SJ 28-7 #215N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,900.0	6.39	250.22	3,687.4	-375.2	-1,043.4	2,040,888.09	573,505.65	36° 36' 31.069 N	107° 34' 58.414 W
3,947.8	4.96	250.22	3,735.0	-376.8	-1,047.8	2,040,886.49	573,501.20	36° 36' 31.054 N	107° 34' 58.468 W
Huerfanito Bentonite									
4,000.0	3.39	250.22	3,787.0	-378.0	-1,051.4	2,040,885.21	573,497.63	36° 36' 31.041 N	107° 34' 58.512 W
4,100.0	0.39	250.22	3,886.9	-379.2	-1,054.5	2,040,884.09	573,494.52	36° 36' 31.030 N	107° 34' 58.550 W
4,113.1	0.00	0.00	3,900.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
SJ 28-7 #215N VERTICAL POINT									
4,200.0	0.00	0.00	3,986.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,300.0	0.00	0.00	4,086.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,400.0	0.00	0.00	4,186.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,423.0	0.00	0.00	4,210.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Chacra									
4,500.0	0.00	0.00	4,286.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,600.0	0.00	0.00	4,386.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,700.0	0.00	0.00	4,486.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,800.0	0.00	0.00	4,586.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
4,900.0	0.00	0.00	4,686.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,000.0	0.00	0.00	4,786.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,100.0	0.00	0.00	4,886.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,128.0	0.00	0.00	4,915.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Mass. Cliffhouse									
5,200.0	0.00	0.00	4,986.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,224.0	0.00	0.00	5,011.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Menefee									
5,300.0	0.00	0.00	5,086.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,373.1	0.00	0.00	5,160.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Int - SJ 28-7 #215N ICP									
5,400.0	0.00	0.00	5,186.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,500.0	0.00	0.00	5,286.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,600.0	0.00	0.00	5,386.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,692.0	0.00	0.00	5,479.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Point Lookout									
5,700.0	0.00	0.00	5,486.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,800.0	0.00	0.00	5,586.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
5,900.0	0.00	0.00	5,686.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,000.0	0.00	0.00	5,786.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,088.0	0.00	0.00	5,875.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Mancos									
6,100.0	0.00	0.00	5,886.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,200.0	0.00	0.00	5,986.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,300.0	0.00	0.00	6,086.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,400.0	0.00	0.00	6,186.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,500.0	0.00	0.00	6,286.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,600.0	0.00	0.00	6,386.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,700.0	0.00	0.00	6,486.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,800.0	0.00	0.00	6,586.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
6,867.0	0.00	0.00	6,654.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Gallup									
6,900.0	0.00	0.00	6,686.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,000.0	0.00	0.00	6,786.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,100.0	0.00	0.00	6,886.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,200.0	0.00	0.00	6,986.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,300.0	0.00	0.00	7,086.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W

ConocoPhillips
Planning Report - Geographic

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #215N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6707.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6707.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	Grid
Well:	SJ 28-7 #215N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,400.0	0.00	0.00	7,186.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,500.0	0.00	0.00	7,286.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,600.0	0.00	0.00	7,386.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,608.0	0.00	0.00	7,395.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Greenhorn									
7,671.0	0.00	0.00	7,458.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Graneros									
7,700.0	0.00	0.00	7,486.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,709.0	0.00	0.00	7,496.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Two Wells									
7,800.0	0.00	0.00	7,586.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,833.0	0.00	0.00	7,620.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Upper Cubero									
7,861.0	0.00	0.00	7,648.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Lower Cubero									
7,900.0	0.00	0.00	7,686.9	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
7,942.0	0.00	0.00	7,729.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Encinal									
7,943.0	0.00	0.00	7,730.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
Prod - SJ 28-7 215N PCP									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 28-7 #215N VERTIC/	0.00	359.85	3,900.0	-379.2	-1,054.5	2,040,884.08	573,494.48	36° 36' 31.030 N	107° 34' 58.551 W
- plan hits target center									
- Point									
SJ 28-7 #215N ICP	0.00	0.00	5,160.0	-379.2	-1,054.6	2,040,884.08	573,494.46	36° 36' 31.030 N	107° 34' 58.551 W
- plan hits target center									
- Point									
SJ 28-7 215N PCP	0.00	359.85	7,730.0	-379.2	-1,054.5	2,040,884.07	573,494.52	36° 36' 31.030 N	107° 34' 58.550 W
- plan hits target center									
- Point									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
320.0	320.0	Surf	9-5/8	12-1/4
5,373.1	5,160.0	Int	7	8-3/4
7,943.0	7,730.0	Prod	4-1/2	6-1/4

ConocoPhillips
Planning Report - Geographic

Database:	EDM, Central Planning	Local Co-ordinate Reference:	Well SJ 28-7 #215N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6707.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6707.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	Grid
Well:	SJ 28-7 #215N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #2		

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,476.2	2,363.0	Ojo		0.00	
	2,647.9	2,519.0	Kirtland		0.00	
	2,987.0	2,827.0	Fruitland		0.00	
	3,448.7	3,249.0	Pictured Cliffs		0.00	
	3,608.2	3,401.0	Lewis		0.00	
	3,947.8	3,735.0	Huerfano Bentonite		0.00	
	4,423.0	4,210.0	Chacra		0.00	
	5,128.0	4,915.0	Mass. Cliffhouse		0.00	
	5,224.0	5,011.0	Menefee		0.00	
	5,692.0	5,479.0	Point Lookout		0.00	
	6,088.0	5,875.0	Mancos		0.00	
	6,867.0	6,654.0	Gallup		0.00	
	7,608.0	7,395.0	Greenhorn		0.00	
	7,671.0	7,458.0	Graneros		0.00	
	7,709.0	7,496.0	Two Wells		0.00	
	7,833.0	7,620.0	Upper Cubero		0.00	
	7,861.0	7,648.0	Lower Cubero		0.00	
	7,942.0	7,729.0	Encinal		0.00	

REFERENCE INFORMATION

Project: San Juan Basin - New Mexico West V
 Site: San Juan 28 Wells
 Well: SJ 28-7 #215N
 Wellbore: Principal Wellbore
 Design: Plan #2



RKB @ 6707.0usft (Original Well Elev)
 Ground Elevation 6692.0
 Reference Lat: 36° 36' 34.752 N
 Reference Long: 107° 34' 45.605 W

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	1656.4	24.73	250.22	1618.3	-88.9	-247.2	2.00	250.22	262.7	
4	3288.8	24.73	250.22	3101.1	-319.9	-889.8	0.00	0.00	945.5	
5	4113.1	0.00	0.00	3900.0	-379.2	-1054.5	3.00	180.00	1120.6	SJ 28-7 #215N VERTICAL POINT
6	5373.1	0.00	0.00	5160.0	-379.2	-1054.5	0.00	0.00	1120.6	SJ 28-7 #215N ICP
7	7943.0	0.00	0.00	7730.0	-379.2	-1054.5	0.00	0.00	1120.6	SJ 28-7 #215N ICP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2363.0	2476.2	Ojo
2519.0	2647.9	Kirtland
2827.0	2987.0	Fruitland
3249.0	3448.7	Pictured Cliffs
3401.0	3608.2	Lewis
3735.0	3947.8	Huerfano Ben
4210.0	4423.0	Chacra
4915.0	5128.0	Mass. Cliffhouse
5011.0	5224.0	Menefee
5479.0	5692.0	Point Lookout
5875.0	6088.0	Mancos
6654.0	6867.0	Gallup
7395.0	7608.0	Greenhorn
7458.0	7671.0	Graneros
7496.0	7709.0	Two Wells
7620.0	7833.0	Upper Cubero
7648.0	7861.0	Lower Cubero
7729.0	7942.0	Encinal

