

RECEIVED

Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 20 2013

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010Farmington Field Office
Bureau of Land Management5. Lease Serial No. NM-03560
6. If Indian, Allottee or Tribe Name**SUNDRY 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

2. Name of Operator

ConocoPhillips Company

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

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

Surface UNIT F (SENW), 2428' FNL & 2062' FWL, Sec. 29, T27N, R7W
Bottomhole UNIT E (SENW), 1735' FNL & 935' FWL, Sec. 29, T27N, R7W

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 98N

9. API Well No.

30-039-30759

10. Field and Pool or Exploratory Area

Basin DK/Blanco MV

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 Intermediate☒ Change Plans☐ Plug and Abandon☐ Temporarily Abandon

Casing Setting Depth

☐ Final Abandonment Notice☐ 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 recomplete 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 recompletion 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 proposed Intermediate Casing setting depth from the APD BLM approved depth of 3,700' to 4,745' to decrease the deviation during drilling. The new Project Proposal Plan and Directional Plan is attached.

RCVD FEB 25 '13
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

2/20/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

William Tambekou

Petrokem Engineer

Title

02/21/2013

Date

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.

(Instruction on page 2)

NMOCDV

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 98N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8485				AFE \$: 2,072,445.40	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA		API #: 3003930759
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.544471	Longitude: -107.599892	X:	Y:	Section: 29		Range: 007W	
Footage X: 2062 FWL	Footage Y: 2428 FNL	Elevation: 6594	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.546371	Longitude: -107.603722	X:	Y:	Section: 29		Range: 007W	
Footage X: 935 FWL	Footage Y: 1735 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6609 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	202	6407		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cuft. Circulate cement to surface.
OJO ALAMO	2080	4529		☐			
KIRTLAND	2222	4387		☐			
FRUITLAND	2491	4118		☐			Possible Gas
PICTURED CLIFFS	2891	3718		☐	316		
LEWIS	3015	3594		☐			
HUERFANITO BENTONITE	3359	3250		☐			
CHACRA	3799	2810		☐			Top perf if Chacra included ~3800'
UPPER CLIFF HOUSE	3980	2629		☐			Gas - top perf if Chacra not included ~3980'
MASSIVE CLIFF HOUSE	4561	2048		☐	66		Gas
MENEFE	4595	2014		☐			
Intermediate Casing	4745	1864		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 899 cuft. Circulate cement to surface.
POINT LOOKOUT	5163	1446		☐			
MANCOS	5501	1108		☐			
UPPER GALLUP	6323	286		☐			
GREENHORN	7119	-510		☐			
GRANEROS	7177	-568		☐			
TWO WELLS	7234	-625		☐	3016		Gas
UPPER CUBERO	7329	-720		☐			Dakota top perf 7235'
LOWER CUBERO	7355	-746		☐			Bottom perf ~ 7404' near base of CBRL
ENCINAL	7421	-812		☐			Add footage to TD if mud drilled.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-7 UNIT 98N

DEVELOPMENT

Total Depth	7422	-813	☐	6-1/4" hole, 4-1/2", 11.6 ppf, J-55 & L-80, LTC casing. Cement w/ 508 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 28-7 UNIT 100N	
Production	SAN JUAN 28-7 98M	

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 grhn to td. Perf 18' above td. Mud logger will call td.

Additional Information:

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

SJB (NM Central)
SEC 29-T27N-R7W
SJ 28-7 Unit #98N

OH

Plan: Plan #1

Standard Planning Report

14 February, 2013



Database: Farmington R5000 DB
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 29-T27N-R7W
Well: SJ 28-7 Unit #98N
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 Unit #98N
TVD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
MD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
North Reference: True
Survey Calculation Method: Minimum Curvature

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 29-T27N-R7W		
Site Position:	Northings:	2,020,705.98 usft	Latitude: 36° 32' 45.454 N
From: Lat/Long	Easting:	104,907.00 usft	Longitude: 107° 35' 42.069 W
Position Uncertainty:	0.0 usft	Slot Radius: 6-1/8"	Grid Convergence: -0.80°

Well	SJ 28-7 Unit #98N, 2428' FNL & 2062' FWL		
Well Position	+N/-S	-541.9 usft	Northings: 2,020,184.13 usft
	+E/-W	-1,431.4 usft	Easting: 103,468.01 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 6,594.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	02/14/13	9.64
			Dip Angle
			63.27
			Field Strength
			50,416

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			301.58

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
972.3	20.17	301.58	958.5	61.3	-99.8	3.00	3.00	0.00	301.58	
3,953.9	20.17	301.58	3,757.3	599.7	-975.5	0.00	0.00	0.00	0.00	
4,962.3	0.00	0.00	4,745.0	691.7	-1,125.1	2.00	-2.00	0.00	180.00	SJ 28-7 #98N ICP
7,639.3	0.00	0.00	7,422.0	691.7	-1,125.1	0.00	0.00	0.00	0.00	SJ 28-7 #98N PCP

Database: Farmington R5000 DB
Company: ConocoPhillips

Project: SJB (NM Central)

Site: SEC 29-T27N-R7W
Well: SJ 28-7 Unit #98N
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Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 Unit #98N
TVD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
MD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
North Reference: True
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
Surface Casing									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	3.00	301.58	400.0	1.4	-2.2	2.6	3.00	3.00	0.00
500.0	6.00	301.58	499.6	5.5	-8.9	10.5	3.00	3.00	0.00
600.0	9.00	301.58	598.8	12.3	-20.0	23.5	3.00	3.00	0.00
700.0	12.00	301.58	697.1	21.9	-35.6	41.7	3.00	3.00	0.00
800.0	15.00	301.58	794.3	34.1	-55.4	65.1	3.00	3.00	0.00
900.0	18.00	301.58	890.2	49.0	-79.6	93.5	3.00	3.00	0.00
972.3	20.17	301.58	958.5	61.3	-99.8	117.1	3.00	3.00	0.00
1,000.0	20.17	301.58	984.5	66.3	-107.9	126.7	0.00	0.00	0.00
1,100.0	20.17	301.58	1,078.4	84.4	-137.3	161.1	0.00	0.00	0.00
1,200.0	20.17	301.58	1,172.2	102.5	-166.6	195.6	0.00	0.00	0.00
1,300.0	20.17	301.58	1,266.1	120.5	-196.0	230.1	0.00	0.00	0.00
1,400.0	20.17	301.58	1,360.0	138.6	-225.4	264.6	0.00	0.00	0.00
1,500.0	20.17	301.58	1,453.8	156.6	-254.8	299.1	0.00	0.00	0.00
1,600.0	20.17	301.58	1,547.7	174.7	-284.1	333.5	0.00	0.00	0.00
1,700.0	20.17	301.58	1,641.6	192.7	-313.5	368.0	0.00	0.00	0.00
1,800.0	20.17	301.58	1,735.5	210.8	-342.9	402.5	0.00	0.00	0.00
1,900.0	20.17	301.58	1,829.3	228.9	-372.2	437.0	0.00	0.00	0.00
2,000.0	20.17	301.58	1,923.2	246.9	-401.6	471.4	0.00	0.00	0.00
2,100.0	20.17	301.58	2,017.1	265.0	-431.0	505.9	0.00	0.00	0.00
2,167.1	20.17	301.58	2,080.0	277.1	-450.7	529.0	0.00	0.00	0.00
Ojo Alamo									
2,200.0	20.17	301.58	2,110.9	283.0	-460.4	540.4	0.00	0.00	0.00
2,300.0	20.17	301.58	2,204.8	301.1	-489.7	574.9	0.00	0.00	0.00
2,318.3	20.17	301.58	2,222.0	304.4	-495.1	581.2	0.00	0.00	0.00
Kirtland									
2,400.0	20.17	301.58	2,298.7	319.1	-519.1	609.4	0.00	0.00	0.00
2,500.0	20.17	301.58	2,392.5	337.2	-548.5	643.8	0.00	0.00	0.00
2,600.0	20.17	301.58	2,486.4	355.3	-577.8	678.3	0.00	0.00	0.00
2,604.9	20.17	301.58	2,491.0	356.1	-579.3	680.0	0.00	0.00	0.00
Fruitland									
2,700.0	20.17	301.58	2,580.3	373.3	-607.2	712.8	0.00	0.00	0.00
2,800.0	20.17	301.58	2,674.1	391.4	-636.6	747.3	0.00	0.00	0.00
2,900.0	20.17	301.58	2,768.0	409.4	-665.9	781.7	0.00	0.00	0.00
3,000.0	20.17	301.58	2,861.9	427.5	-695.3	816.2	0.00	0.00	0.00
3,031.0	20.17	301.58	2,891.0	433.1	-704.4	826.9	0.00	0.00	0.00
Pictured Cliffs									
3,100.0	20.17	301.58	2,955.7	445.5	-724.7	850.7	0.00	0.00	0.00
3,163.1	20.17	301.58	3,015.0	456.9	-743.2	872.5	0.00	0.00	0.00
Lewis									
3,200.0	20.17	301.58	3,049.6	463.6	-754.1	885.2	0.00	0.00	0.00
3,300.0	20.17	301.58	3,143.5	481.7	-783.4	919.7	0.00	0.00	0.00
3,400.0	20.17	301.58	3,237.3	499.7	-812.8	954.1	0.00	0.00	0.00
3,500.0	20.17	301.58	3,331.2	517.8	-842.2	988.6	0.00	0.00	0.00
3,529.6	20.17	301.58	3,359.0	523.1	-850.9	998.8	0.00	0.00	0.00
Huerfano Bentonite									
3,600.0	20.17	301.58	3,425.1	535.8	-871.5	1,023.1	0.00	0.00	0.00
3,700.0	20.17	301.58	3,519.0	553.9	-900.9	1,057.6	0.00	0.00	0.00

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Project: SJB (NM Central)
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Wellbore: OH
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MD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
North Reference: True
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)
3,800.0	20.17	301.58	3,612.8	572.0	-930.3	1,092.0	0.00	0.00	0.00
3,900.0	20.17	301.58	3,706.7	590.0	-959.7	1,126.5	0.00	0.00	0.00
3,953.9	20.17	301.58	3,757.3	599.7	-975.5	1,145.1	0.00	0.00	0.00
3,998.2	19.28	301.58	3,799.0	607.6	-988.2	1,160.1	2.00	-2.00	0.00
Chacra									
4,000.0	19.25	301.58	3,800.7	607.9	-988.7	1,160.6	2.00	-2.00	0.00
4,100.0	17.25	301.58	3,895.6	624.3	-1,015.4	1,192.0	2.00	-2.00	0.00
4,187.9	15.49	301.58	3,980.0	637.3	-1,036.5	1,216.7	2.00	-2.00	0.00
Upper Cliff House									
4,200.0	15.25	301.58	3,991.7	638.9	-1,039.2	1,219.9	2.00	-2.00	0.00
4,300.0	13.25	301.58	4,088.6	651.8	-1,060.2	1,244.5	2.00	-2.00	0.00
4,400.0	11.25	301.58	4,186.3	662.9	-1,078.3	1,265.7	2.00	-2.00	0.00
4,500.0	9.25	301.58	4,284.7	672.2	-1,093.4	1,283.5	2.00	-2.00	0.00
4,600.0	7.25	301.58	4,383.7	679.8	-1,105.6	1,297.9	2.00	-2.00	0.00
4,700.0	5.25	301.58	4,483.1	685.5	-1,114.9	1,308.8	2.00	-2.00	0.00
4,778.2	3.68	301.58	4,561.0	688.6	-1,120.1	1,314.8	2.00	-2.00	0.00
Massive Cliff House									
4,800.0	3.25	301.58	4,582.8	689.3	-1,121.2	1,316.2	2.00	-2.00	0.00
4,812.2	3.00	301.58	4,595.0	689.7	-1,121.8	1,316.8	2.00	-2.00	0.00
Menefee									
4,900.0	1.25	301.58	4,682.7	691.4	-1,124.5	1,320.1	2.00	-2.00	0.00
4,962.3	0.00	0.00	4,745.0	691.7	-1,125.1	1,320.8	2.00	-2.00	0.00
Intermediate Casing									
5,000.0	0.00	0.00	4,782.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,100.0	0.00	0.00	4,882.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,200.0	0.00	0.00	4,982.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,082.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,380.3	0.00	0.00	5,163.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Point Lookout									
5,400.0	0.00	0.00	5,182.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,282.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,382.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,482.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,718.3	0.00	0.00	5,501.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Mancos									
5,800.0	0.00	0.00	5,582.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,682.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,782.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,100.0	0.00	0.00	5,882.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,200.0	0.00	0.00	5,982.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,082.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,182.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,282.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,540.3	0.00	0.00	6,323.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Upper Gallup									
6,600.0	0.00	0.00	6,382.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,482.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,582.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,682.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,782.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,100.0	0.00	0.00	6,882.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00

Database: Farmington R5000 DB
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 29-T27N-R7W
Well: SJ 28-7 Unit #98N
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 Unit #98N
TVD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
MD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
North Reference: True
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)
7,200.0	0.00	0.00	6,982.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,082.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,336.3	0.00	0.00	7,119.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Greenhorn									
7,394.3	0.00	0.00	7,177.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Graneros									
7,400.0	0.00	0.00	7,182.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,451.3	0.00	0.00	7,234.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Two Wells									
7,500.0	0.00	0.00	7,282.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,546.3	0.00	0.00	7,329.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Upper Cubero									
7,572.3	0.00	0.00	7,355.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Lower Cubero									
7,600.0	0.00	0.00	7,382.7	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
7,638.3	0.00	0.00	7,421.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Encinal									
7,639.3	0.00	0.00	7,422.0	691.7	-1,125.1	1,320.8	0.00	0.00	0.00
Production Casing									

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 #98N ICP	0.00	0.00	4,745.0	691.7	-1,125.1	2,020,891.64	102,352.62	36° 32' 46.935 N	107° 36' 13.398 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 28-7 #98N PCP	0.00	0.00	7,422.0	691.7	-1,125.1	2,020,891.64	102,352.62	36° 32' 46.935 N	107° 36' 13.398 W
- plan hits target center									
- Circle (radius 100.0)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
200.0	200.0	Surface Casing	9-5/8	12-1/4
4,962.3	4,745.0	Intermediate Casing	7	8-3/4
7,639.3	7,422.0	Production Casing	4-1/2	6-1/4

Database: Farmington R5000 DB
 Company: ConocoPhillips
 Project: SJB (NM Central)
 Site: SEC 29-T27N-R7W
 Well: SJ 28-7 Unit #98N
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 28-7 Unit #98N
 TVD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
 MD Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,167.1	2,080.0	Ojo Alamo		0.00	
2,318.3	2,222.0	Kirtland		0.00	
2,604.9	2,491.0	Fruitland		0.00	
3,031.0	2,891.0	Pictured Cliffs		0.00	
3,163.1	3,015.0	Lewis		0.00	
3,529.6	3,359.0	Huerfano Bentonite		0.00	
3,998.2	3,799.0	Chacra		0.00	
4,187.9	3,980.0	Upper Cliff House		0.00	
4,778.2	4,561.0	Massive Cliff House		0.00	
4,812.2	4,595.0	Menefee		0.00	
5,380.3	5,163.0	Point Lookout		0.00	
5,718.3	5,501.0	Mancos		0.00	
6,540.3	6,323.0	Upper Gallup		0.00	
7,336.3	7,119.0	Greenhorn		0.00	
7,394.3	7,177.0	Graneros		0.00	
7,451.3	7,234.0	Two Wells		0.00	
7,546.3	7,329.0	Upper Cubero		0.00	
7,572.3	7,355.0	Lower Cubero		0.00	
7,638.3	7,421.0	Encinal		0.00	

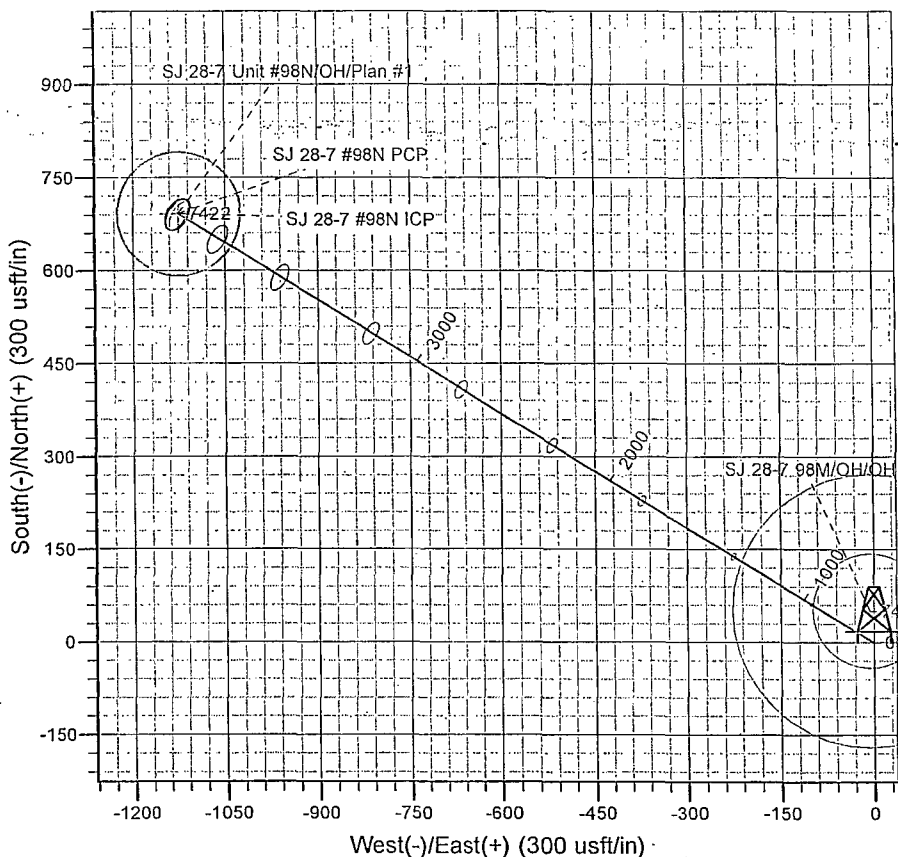
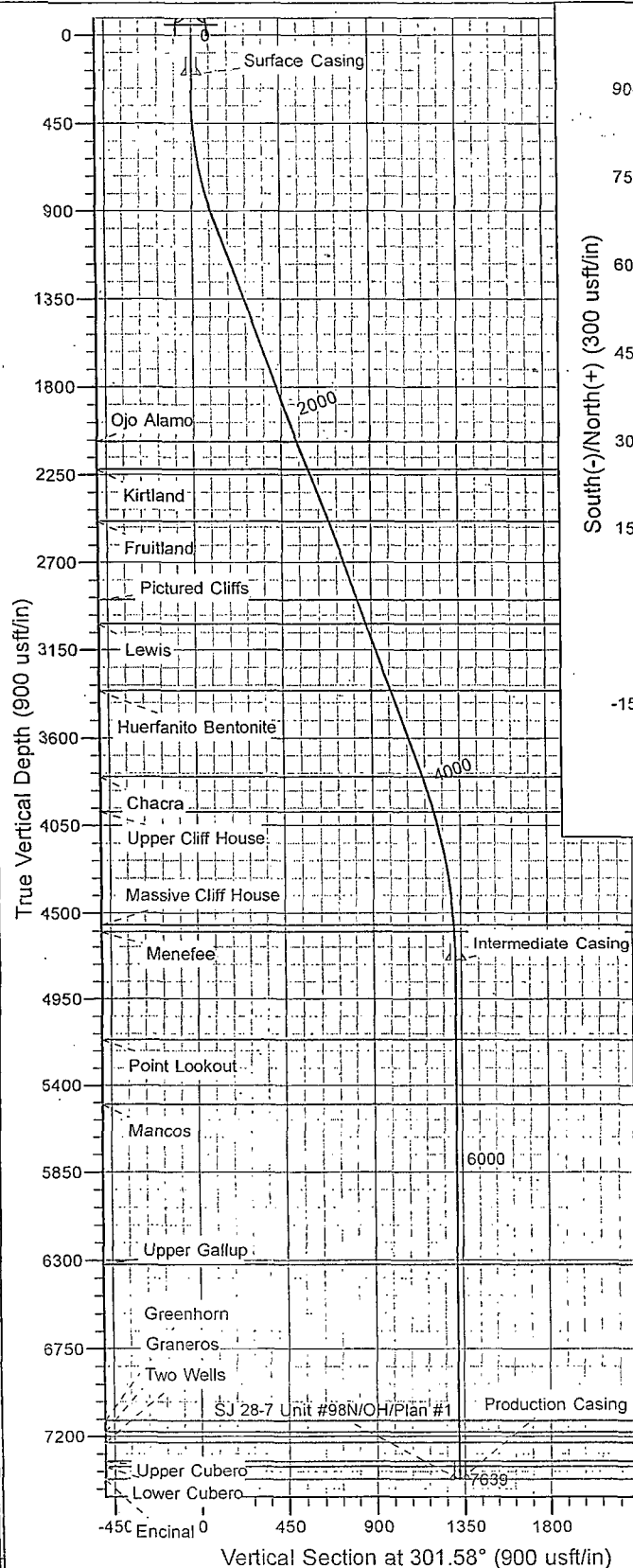
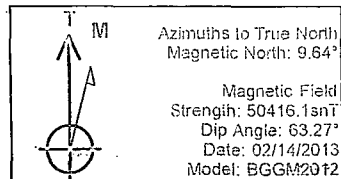
ConocoPhillips

Project: SJB (NM Central)
Site: SEC 29-T27N-R7W
Well: SJ 28-7 Unit #98N
Wellbore: OH
Design: Plan #1



WELL DETAILS: SJ 28-7 Unit #98N

GL 6594' & RKB 15' @ 6609.0usft (Aztec 920) 6594.0
+N/-S 0.0 +E/-W 0.0 Northing 2020184.13 Easting 103468.01 Latitude 36° 32' 40.095 N Longitude 107° 35' 59.610 W



Plan: Plan #1 (SJ 28-7 Unit #98N/OH)

14:12, February 14 2013

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.0
3	972.3	20.17	301.58	958.5	61.3	-99.8	3.00	117.1
4	3953.9	20.17	301.58	3757.3	599.7	-975.5	0.00	1145.1
5	4962.3	0.00	0.00	4745.0	691.7	-1125.1	2.00	1320.8
6	7639.3	0.00	0.00	7422.0	691.7	-1125.1	0.00	1320.8

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 28-7 Unit #98N, True North
Vertical (TVD) Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6594' & RKB 15' @ 6609.0usft (Aztec 920)
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
Location:
System Datum: Mean Sea Level
Local North: True