

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED

Sundry Notices and Reports on Wells

OCT 14 2010

1. Type of Well
GAS

5. Lease Number
Farmington FSE-077974
Bureau of Land Management All. or
Tribe Name

2. Name of Operator

7. Unit Agreement Name

ConocoPhillips

3. Address & Phone No. of Operator

8. Well Name & Number
LODEWICK 100

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

9. API Well No.

30-045-35095

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

10. Field and Pool
BASIN FRUITLAND COAL

Surface: Unit J (NW/SE), 1350' FSL & 1655' FEL, Section 18, T27N, R9W, NMPM
Bottomhole: Unit J (NW/SE), 1470' FSL & 1605' FEL, Section 18, T27N, R9W, NMPM

11. County and State
San Juan, NM

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

Type of Submission

Type of Action

☒ Notice of Intent

☐ Abandonment

☒ Change of Plans

☐ Other --

☒ Subsequent Report

☐ Recompletion

☐ New Construction

RCVD OCT 21 '10

☐ Final Abandonment

☐ Plugging

☐ Non-Routine Fracturing

OIL CONS. DIV.

☐ Casing Repair

☐ Water Shut off

DIST. 3

☐ Altering Casing

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

ConocoPhillips is changing the well plan from vertical to directional drill, to avoid collision possibilities w/ Lodewick 3E The bottomhole location will be Unit J(NW/SE) ~~1350' FSL & 1655' FEL~~ Sec 18, T27N, R9W. The directional plan & revised survey plat are attached. ✓

1470' 1605'

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

Signed

Marie E. Jaramillo

Title Staff Regulatory Technician

Date 10/13/10

(This space for Federal or State Office use)

APPROVED BY Troy L Salvess

Title Petroleum Engineer

Date 10/18/2010

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.

Hold C-104 for AS Drilled PIAT & DIR SURVEY

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

NMOCD

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 16, 2010

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

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

Submit one copy to Appropriate
District Office

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-35095		2 Pool Code 71629		3 Pool Name BASIN FRUITLAND COAL	
4 Property Code 31821		5 Property Name LODEWICK			6 Well Number 100
7 OGRID No. 217817		8 Operator Name CONOCOPHILLIPS COMPANY			9 Elevation 6505'

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
J	18	27-N	9-W		1350	SOUTH	1655	EAST	SAN JUAN

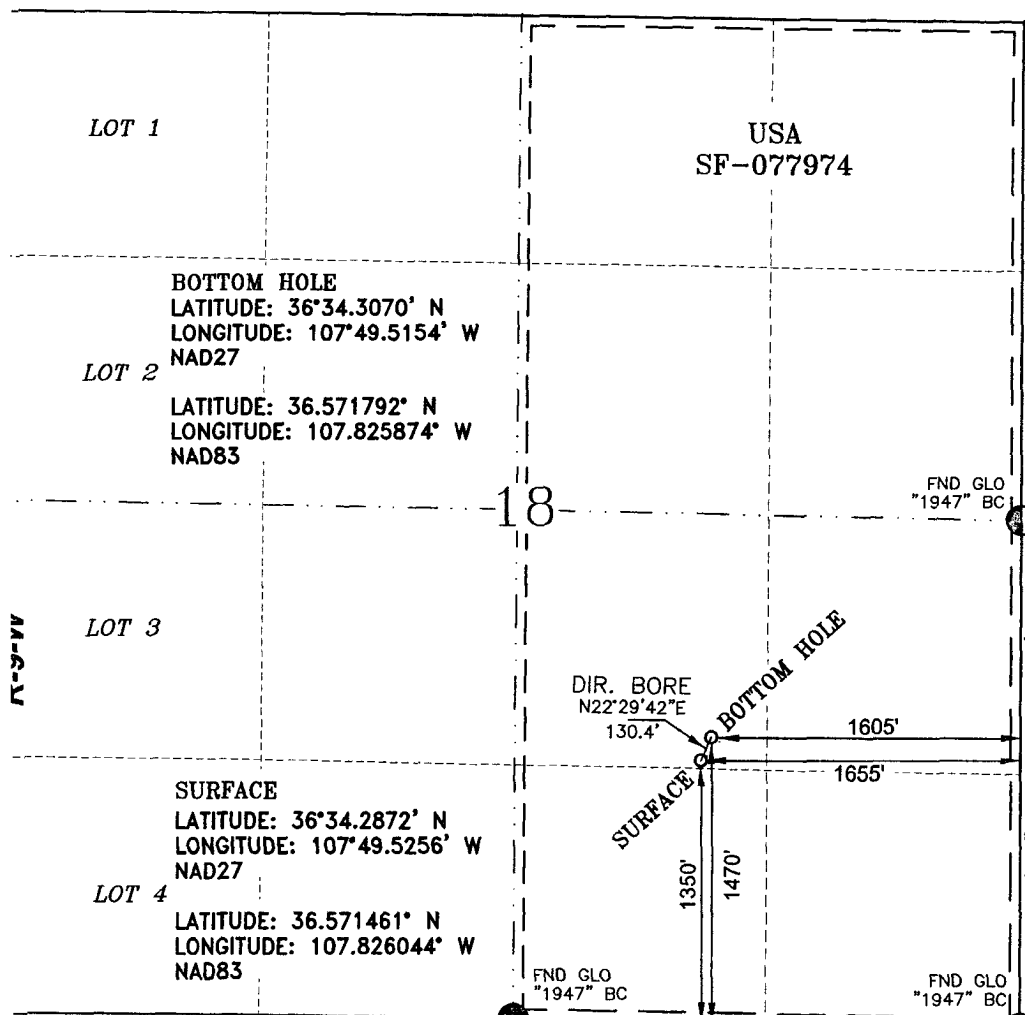
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	18	27N	9W		1470'	SOUTH	1605'	EAST	SAN JUAN

¹² Dedicated Acres FC 320.0 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



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 a working interest in a substantial agreement or a consulting pooling order heretofore entered by the division.

10/14/10

Signature Date

Marie E. Jaramillo

Printed Name

Staff Regulatory Tech.

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.

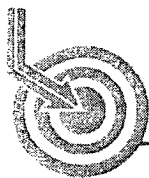
October 13, 2010
Date of Survey

Signature and Stamp



GLEN W. RUSSELL
Certificate Number

15703



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM West)

SEC 18-T27N-R9W

Lodewick #100

API# 30-045-35095

Original Hole

Plan: Plan #1

Standard Planning Report

12 October, 2010



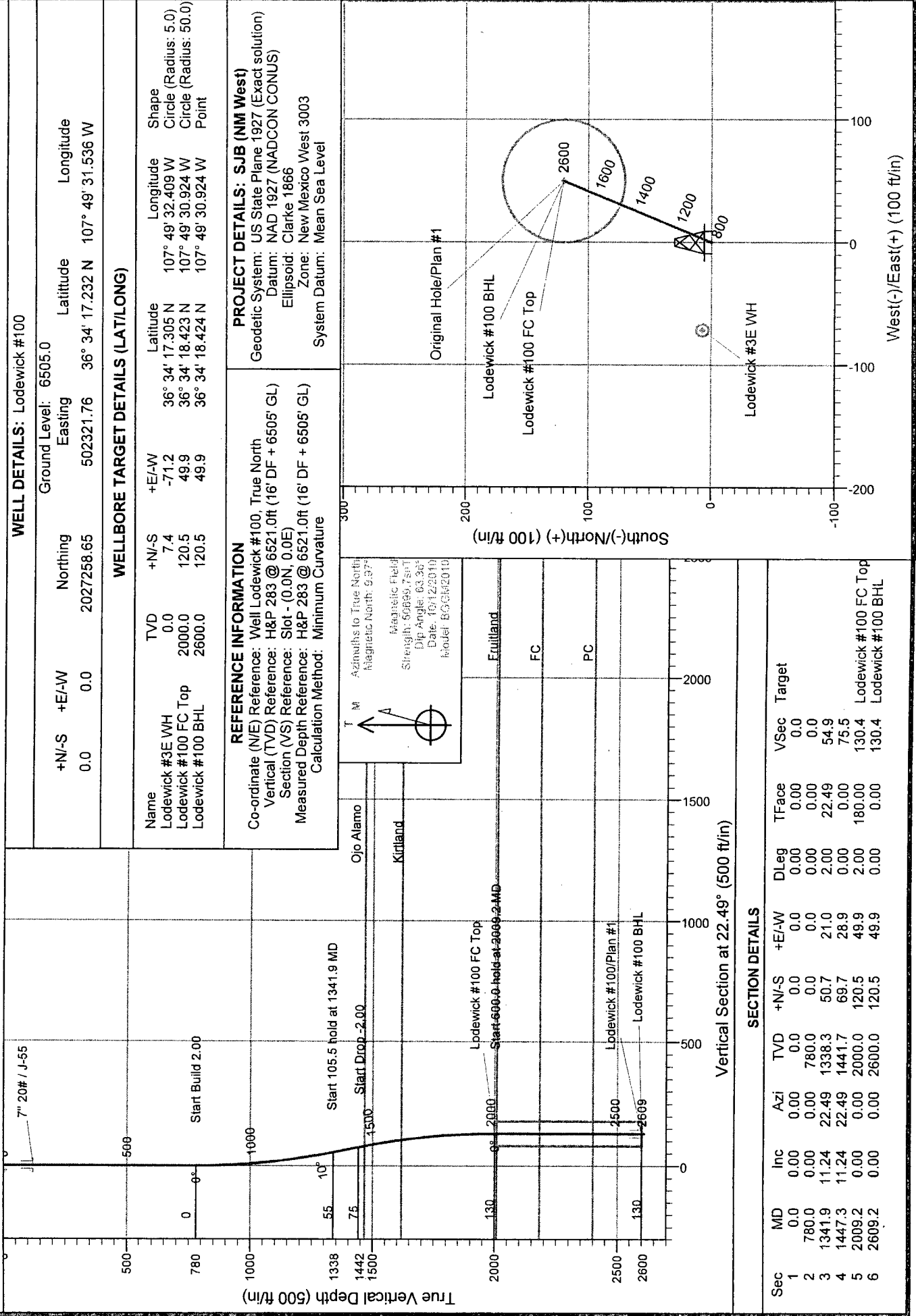
ConocoPhillips



Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
Site: SEC 18-T27N-R9W
Well: Lodewick #100
Wellbore: Original Hole
Design: Plan #1

ConocoPhillips



Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM West)
Site: SEC 18-T27N-R9W
Well: Lodewick #100
Wellbore: Original Hole
Design: Plan #1

Local Co-ordinate Reference: Well Lodewick #100
TVD Reference: H&P 283 @ 6521.0ft (16' DF + 6505' GL)
MD Reference: H&P 283 @ 6521.0ft (16' DF + 6505' GL)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project: SJB (NM West), 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 West 3003 **Using geodetic scale factor**

Site: SEC 18-T27N-R9W
Site Position: **Northing:** 2,027,258.65ft **Latitude:** 36° 34' 17.232 N
From: Lat/Long **Easting:** 502,321.76ft **Longitude:** 107° 49' 31.536 W
Position Uncertainty: 15.0 ft **Slot Radius:** 6-1/8" **Grid Convergence:** 0.00 °

Well: Lodewick #100, Vertical FC Well
Well Position **+N/-S** 0.0 ft **Northing:** 2,027,258.65 ft **Latitude:** 36° 34' 17.232 N
+E/-W 0.0 ft **Easting:** 502,321.76 ft **Longitude:** 107° 49' 31.536 W
Position Uncertainty 0.0 ft **Wellhead Elevation:** ft **Ground Level:** 6,505.0ft

Wellbore: Original Hole
Magnetics **Model Name** **Sample Date** **Declination** **Dip Angle** **Field Strength**
 (°) (°) (nT)
 BGGM2010 10/12/2010 9.97 63.36 50,700

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 22.49

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	
780.0	0.00	0.00	780.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,341.9	11.24	22.49	1,338.3	50.7	21.0	2.00	2.00	0.00	22.49	
1,447.3	11.24	22.49	1,441.7	69.7	28.9	0.00	0.00	0.00	0.00	
2,009.2	0.00	0.00	2,000.0	120.5	49.9	2.00	-2.00	0.00	180.00	Lodewick #100 FC
2,609.2	0.00	0.00	2,600.0	120.5	49.9	0.00	0.00	0.00	0.00	Lodewick #100 BHL

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM West)
Site: SEC 18-T27N-R9W
Well: Lodewick #100
Wellbore: Original Hole
Design: Plan #1

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TVD Reference: H&P 283 @ 6521.0ft (16' DF + 6505' GL)
MD Reference: H&P 283 @ 6521.0ft (16' DF + 6505' GL)
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
Lodewick #3E WH									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
7" 20# / J-55									
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
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
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
780.0	0.00	0.00	780.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.40	22.49	800.0	0.1	0.0	0.1	2.00	2.00	0.00
900.0	2.40	22.49	900.0	2.3	1.0	2.5	2.00	2.00	0.00
1,000.0	4.40	22.49	999.8	7.8	3.2	8.4	2.00	2.00	0.00
1,100.0	6.40	22.49	1,099.3	16.5	6.8	17.9	2.00	2.00	0.00
1,200.0	8.40	22.49	1,198.5	28.4	11.8	30.7	2.00	2.00	0.00
1,300.0	10.40	22.49	1,297.1	43.5	18.0	47.1	2.00	2.00	0.00
1,341.9	11.24	22.49	1,338.3	50.7	21.0	54.9	2.00	2.00	0.00
1,400.0	11.24	22.49	1,395.3	61.2	25.3	66.3	0.00	0.00	0.00
1,447.3	11.24	22.49	1,441.7	69.7	28.9	75.5	0.00	0.00	0.00
1,472.1	10.74	22.49	1,466.0	74.1	30.7	80.2	2.00	-2.00	0.00
Ojo Alamo									
1,500.0	10.18	22.49	1,493.5	78.8	32.6	85.3	2.00	-2.00	0.00
1,600.0	8.18	22.49	1,592.2	93.5	38.7	101.2	2.00	-2.00	0.00
1,626.1	7.66	22.49	1,618.0	96.8	40.1	104.8	2.00	-2.00	0.00
Kirtland									
1,700.0	6.18	22.49	1,691.4	105.1	43.5	113.7	2.00	-2.00	0.00
1,800.0	4.18	22.49	1,791.0	113.4	47.0	122.8	2.00	-2.00	0.00
1,900.0	2.18	22.49	1,890.8	118.6	49.1	128.3	2.00	-2.00	0.00
2,009.2	0.00	0.00	2,000.0	120.5	49.9	130.4	2.00	-2.00	0.00
Lodewick #100 FC Top									
2,017.2	0.00	0.00	2,008.0	120.5	49.9	130.4	0.00	0.00	0.00
Fruitland									
2,100.0	0.00	0.00	2,090.8	120.5	49.9	130.4	0.00	0.00	0.00
2,191.2	0.00	0.00	2,182.0	120.5	49.9	130.4	0.00	0.00	0.00
FC									
2,200.0	0.00	0.00	2,190.8	120.5	49.9	130.4	0.00	0.00	0.00
2,300.0	0.00	0.00	2,290.8	120.5	49.9	130.4	0.00	0.00	0.00
2,400.0	0.00	0.00	2,390.8	120.5	49.9	130.4	0.00	0.00	0.00
2,409.2	0.00	0.00	2,400.0	120.5	49.9	130.4	0.00	0.00	0.00
PC									
2,500.0	0.00	0.00	2,490.8	120.5	49.9	130.4	0.00	0.00	0.00
2,609.2	0.00	0.00	2,600.0	120.5	49.9	130.4	0.00	0.00	0.00
4 1/2" 10.5# / J-55 - Lodewick #100 BHL									



SDI Planning Report



Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM West)
Site: SEC 18-T27N-R9W
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Wellbore: Original Hole
Design: Plan #1

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MD Reference: H&P 283 @ 6521.0ft (16' DF + 6505' GL)
North Reference: True
Survey Calculation Method: Minimum Curvature

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									
Lodewick #3E WH	0.00	0.00	0.0	7.4	-71.2	2,027,266.00	502,250.54	36° 34' 17.305 N	107° 49' 32.409 W
- plan misses target center by 71.6ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Circle (radius 5.0)									
Lodewick #100 FC To	0.00	0.00	2,000.0	120.5	49.9	2,027,379.12	502,371.64	36° 34' 18.423 N	107° 49' 30.924 W
- plan hits target center									
- Circle (radius 50.0)									
Lodewick #100 BHL	0.00	0.00	2,600.0	120.5	49.9	2,027,379.14	502,371.65	36° 34' 18.424 N	107° 49' 30.924 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
120.0	120.0	7" 20# / J-55	7	8-3/4
2,609.2	2,600.0	4 1/2" 10.5# / J-55	4-1/2	6-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,472.1	1,466.0	Ojo Alamo		0.00	
1,626.1	1,618.0	Kirtland		0.00	
2,017.2	2,008.0	Fruitland		0.00	
2,191.2	2,182.0	FC		0.00	
2,409.2	2,400.0	PC		0.00	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LODEWICK 100

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9100		AFE \$: 951,350.40	
Field Name: SAN JUAN		Rig: H&P Rig 283		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				
Location: Surface					
Datum Code: NAD 27		Directional			
Latitude: 36.571453	Longitude: -107.825428	X:	Y:	Section: 18	Range: 009W
Footage X: 1655 FEL	Footage Y: 1350 FSL	Elevation: 6505	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.571784	Longitude: -107.825258	X:	Y:	Section: 18	Range: 009W
Footage X: 1605 FEL	Footage Y: 1470 FSL	Elevation:	(FT)	Township: 027N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6516 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	120	6396		☐	BHT
					Remarks
OJO ALAMO	1466	5050		☐	8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface. ✓
KIRTLAND	1618	4898		☐	
FRUITLAND	2008	4508		☐	Gas
FRUITLAND COAL	2182	4334		☐	
PICTURED CLIFFS	2400	4116		☐	259 ✓ Gas; TD - 200' below T/PCCF
Total Depth	2600	3916		☐	6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 399 cuft. Circulate cement to surface. ✓
Reference Wells:					
Reference Type	Well Name	Comments			
Production	Lodewick 1S	27N 9W 18 N2 SW SW			
Production	Lodewick 8-E	27N 9W 19 SE NW NE			
Production	Lodewick 4-E	27N 9W 18 SW NE NE			
Production	Lodewick 3	27N 9W 18 SW SW			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LODEWICK 100

DEVELOPMENT

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

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - FCNM027N009W18SE1 Avoid P - Lodewick 1 (an inactive PC/FTC) is located there. Prefer O, J, I. Topo could be an issue.

Zones - FCNM027N009W18SE1

General/Work Description - 3/20/09 - economic with additional \$300M for directional cost, No longer economic as a directional well with todays prices- 9/9/09
10-13-09 - Twin is also vertical. Need gyro in parent well and direction control for new drill. \$30,000 added to drilling costs for directional work. JJF.