

RCVD APR 26 '12

OIL CONS. DIV.

DIST. 3

Form C-102

Revised October 12, 2005

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240State of New Mexico
Energy, Minerals & Natural Resources DepartmentDISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30480		² Pool Code 72319 / 71599		³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
⁴ Property Code 7452		⁵ Property Name SAN JUAN 27-4 UNIT			⁶ Well Number 22A
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP			⁹ Elevation 7128'

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
F	14	27-N	4-W		1490'	NORTH	2035'	WEST	RIO ARRIBA

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
D	14	27-N	4-W		759'	NORTH	835'	WEST	RIO ARRIBA
¹² Dedicated Acres 320.00		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

	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, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Marie E. Jaramillo</i> Printed Name: Marie E. Jaramillo 4/26/12 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. Date of Survey: 11-8-07 Signature and Seal of Professional Surveyor: <i>Cedric W. Russell</i> Certificate Number: 15703
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A

PC

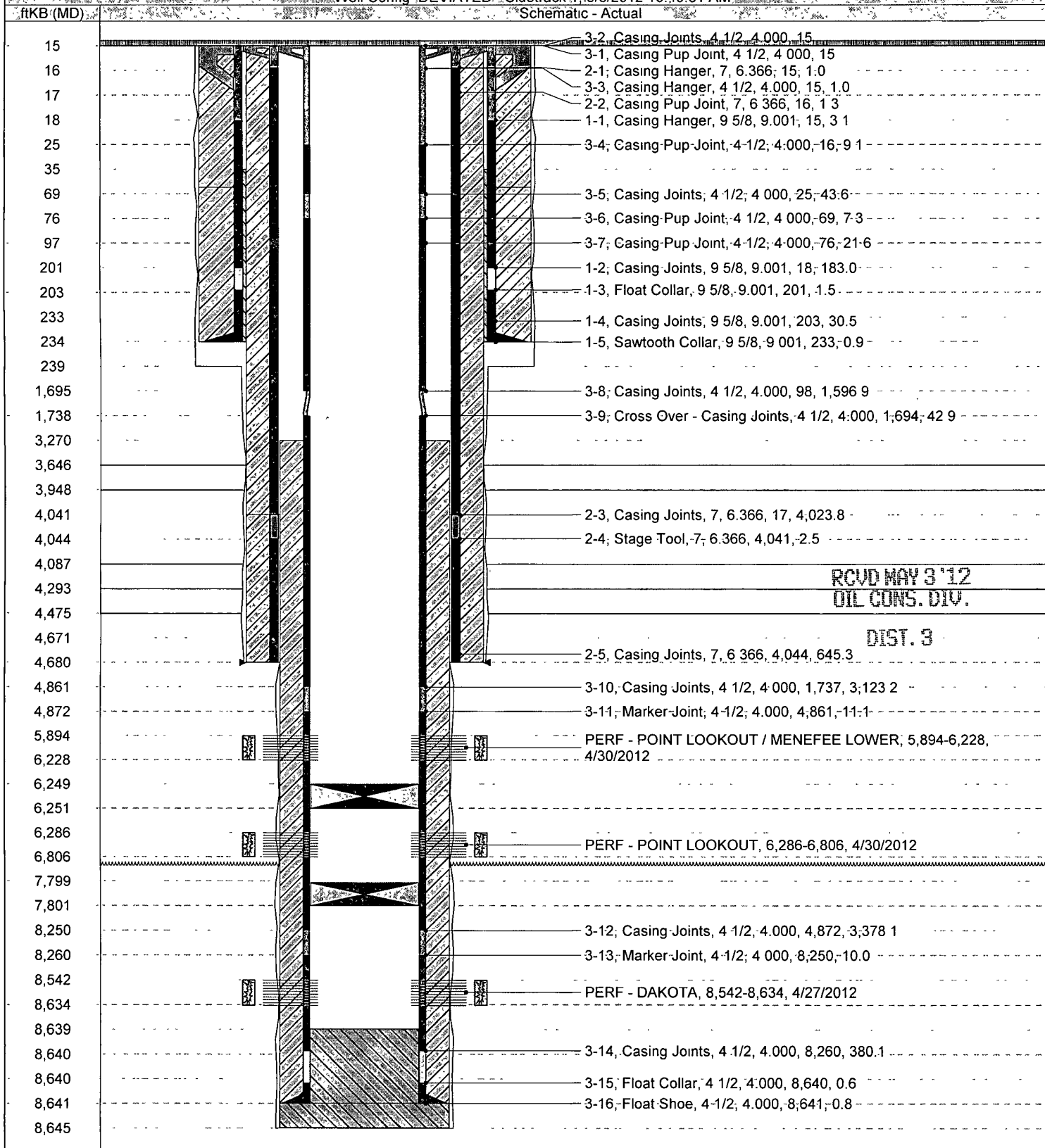


Schematic Regulatory

SAN JUAN 27-4 UNIT #22A

District SOUTH	Field Name MV/DK COM	County RIO ARRIBA	State/Province NEW MEXICO	API / UWI 3003930480	
Original Spud Date 6/28/2011	Surface Legal Location 014-027N-004W-F	East/West Distance (ft) 2,035.00	East/West Reference FWL	North/South Distance (ft) 1,490.00	North/South Reference FNL

Well Config: DEVIATED Sidetrack 1 5/3/2012 10:49:31 AM



INTEROFFICE MEMO

TO: Records & Regulatory

DATE: 11/18/2011

FROM: Sharon Nez

LOCATION: Farmington, N.M.

Final Geologic Summary

Well Name & No San Juan 27-4 Unit 22A API 3003930480

Location NW Section 14 Twp. 27N Rge. 04W

County & State Rio Arriba, New Mexico

Elevation: GL: 7131' KB 7146'

Tops From: X Wireline Log Mudlog Correlation

Ojo Alamo <u>3646'</u>	Chacra <u>5266'</u>	Greenhorn <u>8420'</u>	
Kirtland <u>3948'</u>	Upper Cliff House <u>5890'</u>	Graneros <u>8490'</u>	
Fruitland <u>4087'</u>	Massive Cliff House <u>6078'</u>	Dakota (Two Wells) <u>8539'</u>	
Pictured Cliffs <u>4293'</u>	Menefee <u>6138'</u>	Paguate <u>8602'</u>	
Lewis <u>4475'</u>	Point Lookout <u>6505'</u>	Upper Cubero <u>8627'</u>	4/16/2012
Huerfanto Bentonite <u>not present</u>	Mancos <u>7013'</u>	Lower Cubero <u>nde</u>	
	Upper Gallup <u>7630'</u>	Oak Canyon <u> </u>	
		Encinal <u> </u>	
		Burro Canyon <u> </u>	
		Morrison <u> </u>	
		PBTD <u>8639'</u>	
		LTD <u>8621'</u>	

Electric Logs Run: Gamma Ray/CCL Acoustic Cement Bond Log

Well Cored? X No Yes

Well DST'd? X No Yes

Geologist Sharon Nez

COP Deviation Report
SAN JUAN 27-4 UNIT #22A

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SAN JUAN 27-4 UNIT #22A	API / UWI 3003930480	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 014-027N-004W-F	N/S Dist (ft) 1,490.00	N/S Ref FNL	E/W Dist (ft) 2,035.00	E/W Ref FWL

Survey Data					
Date	MD (ftKB)	Incl.(°)	Azm.(°)	Method	Survey/Company
9/5/2011	0.00	0.00	0.00	IncAzi-MWD	Scientific Drilling
6/28/2011	130.00	0.75		Inc-WL	MOTE
6/28/2011	239.00	1 50		Inc-WL	MOTE
9/5/2011	246 00	2.32	244 86	IncAzi-MWD	Scientific Drilling
9/5/2011	307 00	2.34	245.40	IncAzi-MWD	Scientific Drilling
9/5/2011	368.00	2 53	256.59	IncAzi-MWD	Scientific Drilling
9/5/2011	430.00	3 19	275 11	IncAzi-MWD	Scientific Drilling
9/5/2011	492.00	3 99	282.45	IncAzi-MWD	Scientific Drilling
9/5/2011	553 00	4 54	292.24	IncAzi-MWD	Scientific Drilling
9/5/2011	615 00	5.34	300 49	IncAzi-MWD	Scientific Drilling
9/5/2011	677.00	6.29	304 80	IncAzi-MWD	Scientific Drilling
9/5/2011	737.00	7.24	312.15	IncAzi-MWD	Scientific Drilling
9/5/2011	799.00	8.51	317.96	IncAzi-MWD	Scientific Drilling
9/5/2011	860.00	10.02	320.25	IncAzi-MWD	Scientific Drilling
9/5/2011	926.00	11.81	319.02	IncAzi-MWD	Scientific Drilling
9/5/2011	990.00	13.37	317.73	IncAzi-MWD	Scientific Drilling
9/5/2011	1,053.00	15.00	316.29	IncAzi-MWD	Scientific Drilling
9/5/2011	1,117.00	16.60	313.82	IncAzi-MWD	Scientific Drilling
9/5/2011	1,178.00	17.83	310.60	IncAzi-MWD	Scientific Drilling
9/5/2011	1,241.00	19.08	310.27	IncAzi-MWD	Scientific Drilling
9/5/2011	1,305.00	19.96	307.36	IncAzi-MWD	Scientific Drilling
9/5/2011	1,368.00	21.16	303.96	IncAzi-MWD	Scientific Drilling
9/6/2011	1,432.00	22.65	301.91	IncAzi-MWD	Scientific Drilling
9/6/2011	1,495.00	24.14	300.63	IncAzi-MWD	Scientific Drilling
9/6/2011	1,559.00	25.04	299.23	IncAzi-MWD	Scientific Drilling
9/6/2011	1,622 00	25.96	299.22	IncAzi-MWD	Scientific Drilling
9/6/2011	1,685 00	26.34	298 39	IncAzi-MWD	Scientific Drilling
9/6/2011	1,749.00	26.47	298.34	IncAzi-MWD	Scientific Drilling
9/6/2011	1,876.00	26.49	298.20	IncAzi-MWD	Scientific Drilling
9/6/2011	1,939 00	26.73	298.00	IncAzi-MWD	Scientific Drilling
9/6/2011	2,003.00	26.42	298 65	IncAzi-MWD	Scientific Drilling
9/6/2011	2,066 00	25.93	300 67	IncAzi-MWD	Scientific Drilling
9/6/2011	2,129.00	25.94	300.51	IncAzi-MWD	Scientific Drilling
9/6/2011	2,193 00	26.16	301 56	IncAzi-MWD	Scientific Drilling
9/6/2011	2,256 00	25.68	302 45	IncAzi-MWD	Scientific Drilling

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

RCUD APR 25 12
OIL CONS. DIV.
DIST. 3

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report

SAN JUAN 27-4 UNIT #22A

Survey Data

Date	MD (ftKB)	Incl. (°)	Azm (°)	Method	Survey Company
9/6/2011	2,320.00	25.41	302.17	IncAzi-MWD	Scientific Drilling
9/6/2011	2,383.00	25.81	302.09	IncAzi-MWD	Scientific Drilling
9/6/2011	2,446.00	25.47	301.51	IncAzi-MWD	Scientific Drilling
9/6/2011	2,510.00	24.84	300.95	IncAzi-MWD	Scientific Drilling
9/6/2011	2,573.00	24.87	301.01	IncAzi-MWD	Scientific Drilling
9/6/2011	2,637.00	24.69	300.90	IncAzi-MWD	Scientific Drilling
9/6/2011	2,700.00	24.75	300.58	IncAzi-MWD	Scientific Drilling
9/6/2011	2,764.00	24.75	299.66	IncAzi-MWD	Scientific Drilling
9/6/2011	2,827.00	24.25	299.60	IncAzi-MWD	Scientific Drilling
9/6/2011	2,891.00	23.33	299.72	IncAzi-MWD	Scientific Drilling
9/6/2011	2,954.00	24.14	300.15	IncAzi-MWD	Scientific Drilling
9/6/2011	3,018.00	24.06	301.15	IncAzi-MWD	Scientific Drilling
9/6/2011	3,081.00	23.91	301.71	IncAzi-MWD	Scientific Drilling
9/7/2011	3,145.00	23.87	301.30	IncAzi-MWD	Scientific Drilling
9/7/2011	3,208.00	24.23	301.86	IncAzi-MWD	Scientific Drilling
9/7/2011	3,271.00	25.03	301.42	IncAzi-MWD	Scientific Drilling
9/7/2011	3,335.00	25.94	300.74	IncAzi-MWD	Scientific Drilling
9/7/2011	3,398.00	26.20	301.13	IncAzi-MWD	Scientific Drilling
9/7/2011	3,462.00	25.49	300.64	IncAzi-MWD	Scientific Drilling
9/7/2011	3,525.00	25.11	299.64	IncAzi-MWD	Scientific Drilling
9/7/2011	3,589.00	25.71	298.75	IncAzi-MWD	Scientific Drilling
9/7/2011	3,652.00	25.41	298.00	IncAzi-MWD	Scientific Drilling
9/7/2011	3,715.00	26.10	297.87	IncAzi-MWD	Scientific Drilling
9/7/2011	3,778.00	24.59	298.67	IncAzi-MWD	Scientific Drilling
9/7/2011	3,841.00	23.73	298.48	IncAzi-MWD	Scientific Drilling
9/7/2011	3,905.00	22.13	298.39	IncAzi-MWD	Scientific Drilling
9/7/2011	3,968.00	20.26	299.18	IncAzi-MWD	Scientific Drilling
9/7/2011	4,032.00	17.83	300.41	IncAzi-MWD	Scientific Drilling
9/7/2011	4,095.00	16.09	302.05	IncAzi-MWD	Scientific Drilling
9/13/2011	4,159.00	12.32	303.21	IncAzi-MWD	Scientific Drilling
9/13/2011	4,222.00	11.08	300.36	IncAzi-MWD	Scientific Drilling
9/13/2011	4,286.00	9.77	296.39	IncAzi-MWD	Scientific Drilling
9/13/2011	4,349.00	8.79	299.64	IncAzi-MWD	Scientific Drilling
9/13/2011	4,413.00	7.07	304.58	IncAzi-MWD	Scientific Drilling
9/13/2011	4,476.00	5.85	308.41	IncAzi-MWD	Scientific Drilling
9/13/2011	4,540.00	4.34	315.57	IncAzi-MWD	Scientific Drilling
9/13/2011	4,603.00	2.80	327.77	IncAzi-MWD	Scientific Drilling
9/13/2011	4,667.00	1.85	325.66	IncAzi-MWD	Scientific Drilling
9/29/2011	4,694.00	2.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report

SAN JUAN 27-4 UNIT #22A

Survey Data						
Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company	
9/13/2011	4,698.00	1.62	329.13	IncAzi-MWD	Scientific Drilling	
9/13/2011	4,754.00	1.62	329.13	Projection	Scientific Drilling	
9/29/2011	4,756.00	5.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc	
10/15/2011	4,800.00	5.06	341.23	IncAzi-EL	Gyrodata	
9/30/2011	4,824.00	5.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc	
9/30/2011	4,888.00	6.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc	
9/30/2011	4,948.00	7.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc	
9/30/2011	4,992.00	7.00	329.13	Inc-MWD	Aztec Well Servicing Co Inc	
10/15/2011	5,000.00	7.88	323.87	IncAzi-EL	Gyrodata	
10/15/2011	5,200.00	3.27	323.30	IncAzi-EL	Gyrodata	
10/15/2011	5,400.00	1.38	324.92	IncAzi-EL	Gyrodata	
10/15/2011	5,600.00	0.59	311.83	IncAzi-EL	Gyrodata	
10/15/2011	5,800.00	0.37	313.27	IncAzi-EL	Gyrodata	
10/15/2011	6,000.00	0.25	301.77	IncAzi-EL	Gyrodata	
10/15/2011	6,200.00	0.05	358.17	IncAzi-EL	Gyrodata	
10/15/2011	6,400.00	0.55	325.25	IncAzi-EL	Gyrodata	
10/15/2011	6,600.00	0.56	356.91	IncAzi-EL	Gyrodata	
10/15/2011	6,800.00	0.67	23.54	IncAzi-EL	Gyrodata	
10/15/2011	7,000.00	0.71	25.55	IncAzi-EL	Gyrodata	
10/15/2011	7,200.00	0.77	74.41	IncAzi-EL	Gyrodata	
10/15/2011	7,400.00	0.49	139.89	IncAzi-EL	Gyrodata	
10/15/2011	7,600.00	1.51	163.83	IncAzi-EL	Gyrodata	
10/15/2011	7,800.00	0.74	159.00	IncAzi-EL	Gyrodata	
10/15/2011	8,000.00	0.60	147.35	IncAzi-EL	Gyrodata	
10/15/2011	8,200.00	1.50	147.26	IncAzi-EL	Gyrodata	
10/15/2011	8,400.00	1.71	169.46	IncAzi-EL	Gyrodata	
10/15/2011	8,600.00	0.93	194.61	IncAzi-EL	Gyrodata	
10/17/2011	8,611.00	1.00		Inc-WL	Phoenix Services LLC	

I, the undersigned, certify that I acting in my capacity as Daniel Hernandez for ConocoPhillips Company, am authorized by said Company to make this report, and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

[Signature]

Subscribed and sworn to me this 4/26/12

María P. Zarama

Notary Public in and for San Juan County, New Mexico

My Commission expires 4/29/14



Scientific Drilling
Directional Drilling Operations

RCVD APR 26 '12

OIL CONS. DIV

DIST. 3

ConocoPhillips

SJB (NM Central)
SEC 14-T27N-R4W
SJ 27-4 #22A

Original Hole

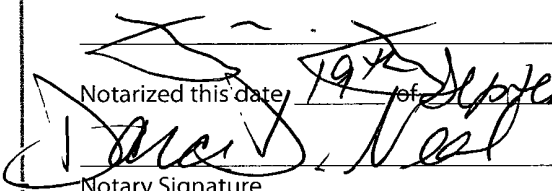
Design: Original Hole

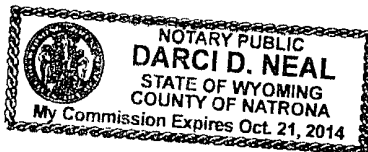
API # 2003930480
Standard Survey Report

19 September, 2011

This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 19th of September, 2011.

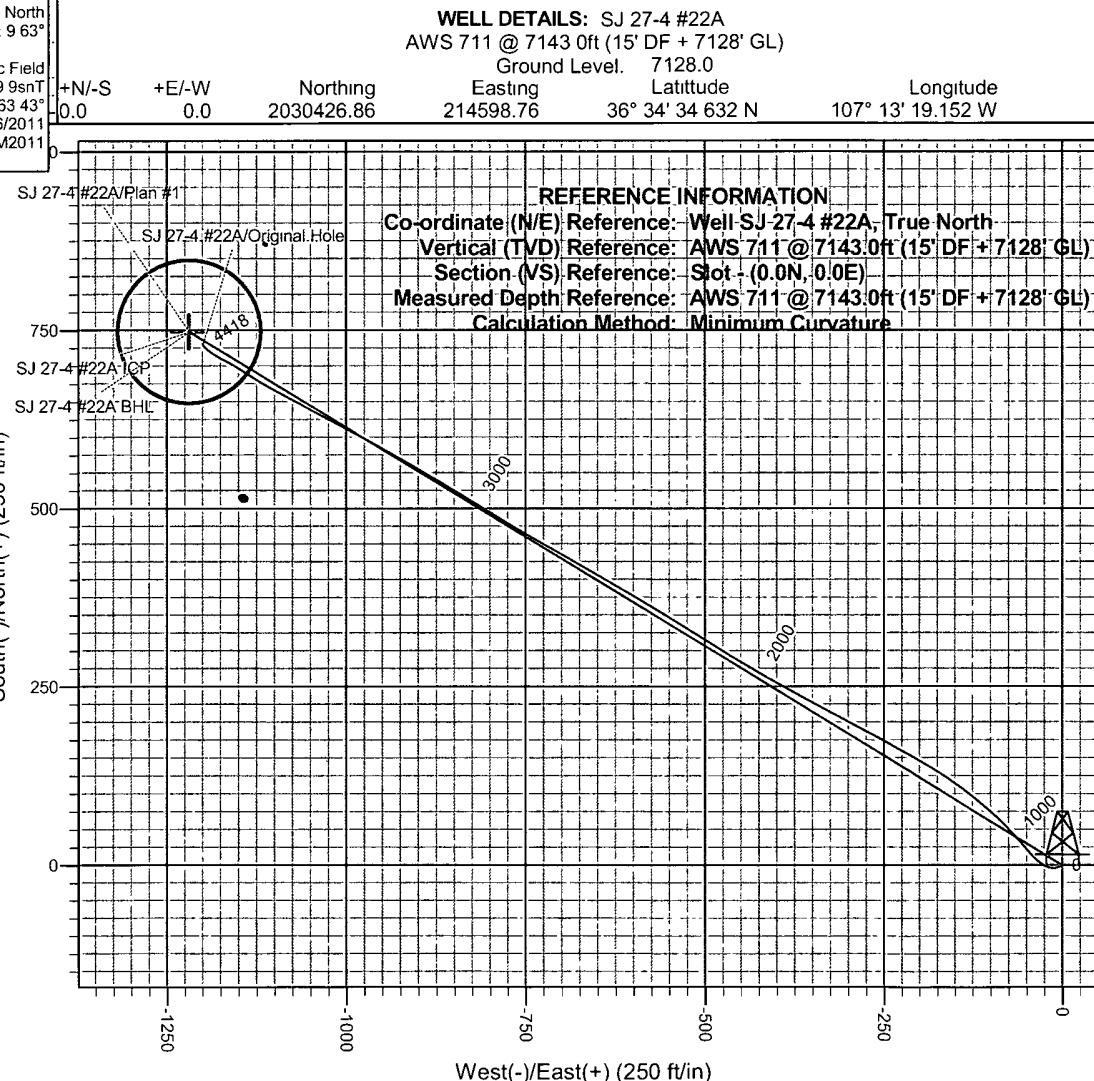
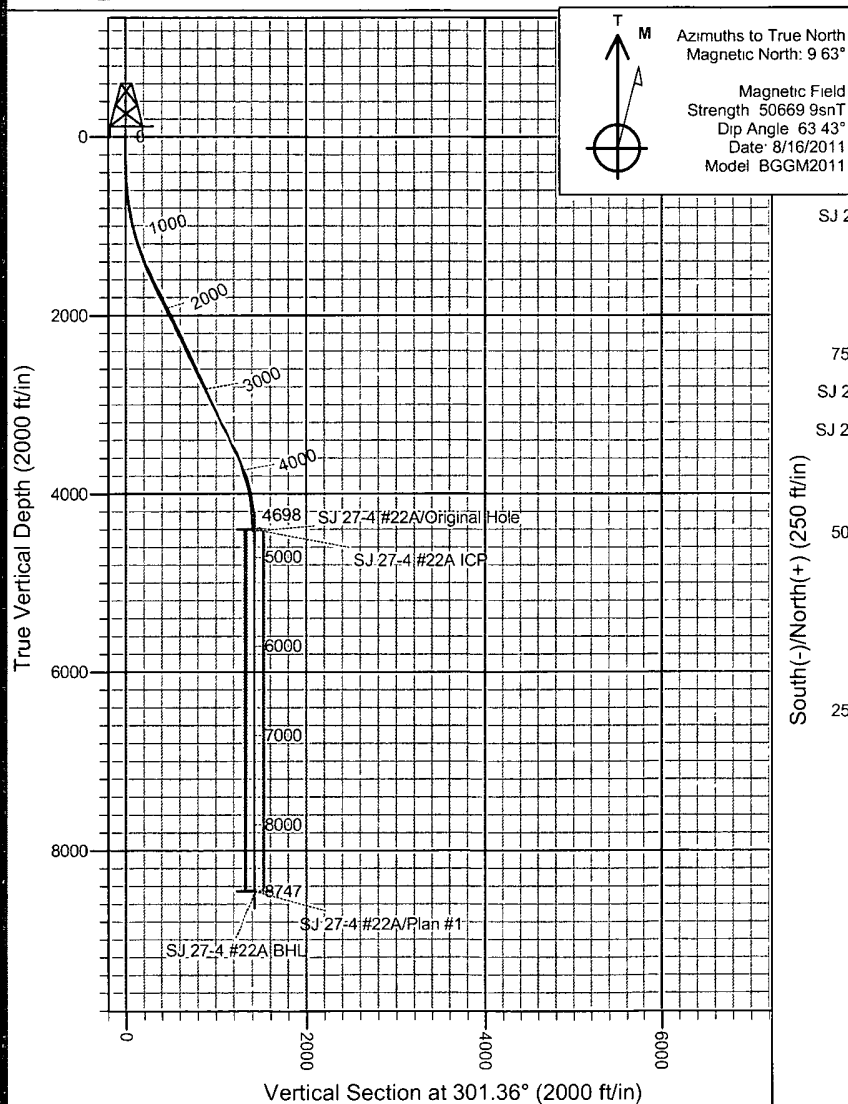

Notary Signature
County of Natrona
State of Wyoming



ConocoPhillips



Project: SJB (NM Central)
Site: SEC 14-T27N-R4W
Well: SJ 27-4 #22A
Wellbore: Original Hole
Design: Original Hole



COMPANY DETAILS: ConocoPhillips
Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Combined Covariances
Warning Method: Risk Ratio

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
System Datum: Mean Sea Level

SITE DETAILS: SEC 14-T27N-R4W
Rio Arriba County NM
Site Centre Latitude: 36° 34' 34.110 N
Longitude: 107° 13' 17.352 W
Positional Uncertainty: 0.0
Convergence: -0 58
Local North: True



Scientific Drilling
Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #22A
Project:	SJB (NM Central)	TVD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Site:	SEC 14-T27N-R4W	MD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Well:	SJ 27-4 #22A	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDMCOP

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 14-T27N-R4W		
Site Position:	From:	Northing:	2,030,372.59 ft
	Lat/Long	Easting:	214,745.04 ft
		Latitude:	36° 34' 34.110 N
		Longitude:	107° 13' 17.352 W
Position Uncertainty:	0.0 ft	Slot Radius:	6-1/8"
		Grid Convergence:	-0.58 °

Well	SJ 27-4 #22A, S-Type MV/DK Well		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
			Latitude:
			Longitude:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
			Ground Level:

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	8/16/2011	9.63	63.43	50,670

Design	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	301.36

Survey Program	Date 9/19/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
246.0	4,698.0	Survey #1 (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1

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	
246.0	2.32	244.86	245.9	-2.1	-4.5	2.7	0.94	0.94	0.00	
First SDI MWD Survey										
307.0	2.34	245.40	306.9	-3.2	-6.8	4.1	0.05	0.03	0.89	
368.0	2.53	256.59	367.8	-4.0	-9.2	5.8	0.84	0.31	18.34	
430.0	3.19	275.11	429.8	-4.2	-12.2	8.3	1.82	1.06	29.87	
492.0	3.99	282.45	491.6	-3.5	-16.1	11.9	1.49	1.29	11.84	
553.0	4.54	292.24	552.5	-2.2	-20.4	16.3	1.49	0.90	16.05	
615.0	5.34	300.49	614.2	0.2	-25.1	21.6	1.72	1.29	13.31	
677.0	6.29	304.80	675.9	3.6	-30.4	27.9	1.69	1.53	6.95	
737.0	7.24	312.15	735.5	8.0	-35.9	34.9	2.14	1.58	12.25	
799.0	8.51	317.96	796.9	14.1	-41.9	43.1	2.42	2.05	9.37	
860.0	10.02	320.25	857.1	21.5	-48.3	52.4	2.55	2.48	3.75	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #22A
Project:	SJB (NM Central)	TVD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Site:	SEC 14-T27N-R4W	MD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Well:	SJ 27-4 #22A	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDMCOP

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)
926.0	11.81	319.02	921.9	31.0	-56.4	64.3	2.73	2.71	-1.86
990.0	13.37	317.73	984.4	41.4	-65.7	77.6	2.48	2.44	-2.02
1,053.0	15.00	316.29	1,045.5	52.7	-76.2	92.5	2.65	2.59	-2.29
1,117.0	16.60	313.82	1,107.0	65.0	-88.5	109.4	2.71	2.50	-3.86
1,178.0	17.83	310.60	1,165.3	77.2	-101.9	127.2	2.55	2.02	-5.28
1,241.0	19.08	310.27	1,225.1	90.1	-117.1	146.9	1.99	1.98	-0.52
1,305.0	19.96	307.36	1,285.4	103.5	-133.8	168.1	2.05	1.38	-4.55
1,368.0	21.16	303.96	1,344.4	116.4	-151.7	190.1	2.69	1.90	-5.40
1,432.0	22.65	301.91	1,403.7	129.3	-171.8	214.0	2.62	2.33	-3.20
1,495.0	24.14	300.63	1,461.6	142.3	-193.2	239.0	2.50	2.37	-2.03
1,559.0	25.04	299.23	1,519.8	155.6	-216.2	265.6	1.68	1.41	-2.19
1,622.0	25.96	299.22	1,576.6	168.8	-239.9	292.7	1.46	1.46	-0.02
1,685.0	26.34	298.39	1,633.2	182.2	-264.2	320.5	0.84	0.60	-1.32
1,749.0	26.47	298.34	1,690.5	195.7	-289.3	348.9	0.21	0.20	-0.08
1,812.0	26.90	298.11	1,746.8	209.1	-314.2	377.1	0.70	0.68	-0.37
1,876.0	26.49	298.20	1,804.0	222.7	-339.6	405.8	0.64	-0.64	0.14
1,939.0	26.73	298.00	1,860.3	236.0	-364.5	434.0	0.41	0.38	-0.32
2,003.0	26.42	298.65	1,917.5	249.5	-389.7	462.6	0.66	-0.48	1.02
2,066.0	25.93	300.67	1,974.1	263.3	-413.8	490.4	1.61	-0.78	3.21
2,129.0	25.94	300.51	2,030.7	277.3	-437.5	517.9	0.11	0.02	-0.25
2,193.0	26.16	301.56	2,088.2	291.8	-461.6	546.0	0.80	0.34	1.64
2,256.0	25.68	302.45	2,144.9	306.4	-485.0	573.6	0.98	-0.76	1.41
2,320.0	25.41	302.17	2,202.6	321.1	-508.3	601.2	0.46	-0.42	-0.44
2,383.0	25.81	302.09	2,259.4	335.6	-531.3	628.4	0.64	0.63	-0.13
2,446.0	25.47	301.51	2,316.2	350.0	-554.5	655.6	0.67	-0.54	-0.92
2,510.0	24.84	300.95	2,374.2	364.1	-577.8	682.9	1.05	-0.98	-0.88
2,573.0	24.87	301.01	2,431.3	377.7	-600.5	709.3	0.06	0.05	0.10
2,637.0	24.69	300.90	2,489.4	391.5	-623.5	736.2	0.29	-0.28	-0.17
2,700.0	24.75	300.58	2,546.7	405.0	-646.1	762.5	0.23	0.10	-0.51
2,764.0	24.75	299.66	2,604.8	418.4	-669.3	789.3	0.60	0.00	-1.44
2,827.0	24.25	299.60	2,662.1	431.4	-692.0	815.4	0.79	-0.79	-0.10
2,891.0	23.33	299.72	2,720.7	444.1	-714.4	841.2	1.44	-1.44	0.19
2,954.0	24.14	300.15	2,778.4	456.8	-736.4	866.6	1.31	1.29	0.68
3,018.0	24.06	301.15	2,836.8	470.1	-758.9	892.7	0.65	-0.13	1.56
3,081.0	23.91	301.71	2,894.3	483.5	-780.8	918.3	0.43	-0.24	0.89
3,145.0	23.87	301.30	2,952.8	497.0	-802.8	944.2	0.27	-0.06	-0.64
3,208.0	24.23	301.86	3,010.4	510.5	-824.7	969.9	0.68	0.57	0.89
3,271.0	25.03	301.42	3,067.6	524.2	-847.1	996.1	1.30	1.27	-0.70
3,335.0	25.94	300.74	3,125.4	538.4	-870.7	1,023.7	1.49	1.42	-1.06
3,398.0	26.20	301.13	3,182.0	552.7	-894.4	1,051.4	0.49	0.41	0.62
3,462.0	25.49	300.64	3,239.6	567.0	-918.3	1,079.3	1.16	-1.11	-0.77
3,525.0	25.11	299.64	3,296.6	580.5	-941.6	1,106.2	0.91	-0.60	-1.59
3,589.0	25.71	298.75	3,354.4	593.9	-965.6	1,133.6	1.11	0.94	-1.39
3,652.0	25.41	298.00	3,411.2	606.8	-989.5	1,160.8	0.70	-0.48	-1.19
3,715.0	26.10	297.87	3,468.0	619.6	-1,013.7	1,188.1	1.10	1.10	-0.21
3,778.0	24.59	298.67	3,524.9	632.4	-1,037.5	1,215.0	2.46	-2.40	1.27
3,841.0	23.73	298.48	3,582.4	644.8	-1,060.1	1,240.8	1.37	-1.37	-0.30
3,905.0	22.13	298.39	3,641.3	656.6	-1,082.0	1,265.7	2.50	-2.50	-0.14
3,968.0	20.26	299.18	3,700.0	667.6	-1,102.0	1,288.4	3.00	-2.97	1.25
4,032.0	17.83	300.41	3,760.5	677.9	-1,120.1	1,309.3	3.85	-3.80	1.92
4,095.0	14.84	303.32	3,821.0	687.3	-1,135.2	1,327.0	4.92	-4.75	4.62
4,159.0	12.32	303.21	3,883.2	695.5	-1,147.7	1,342.0	3.94	-3.94	-0.17
4,222.0	11.08	300.36	3,944.9	702.3	-1,158.6	1,354.8	2.17	-1.97	-4.52
4,286.0	9.77	296.39	4,007.8	707.8	-1,168.8	1,366.4	2.33	-2.05	-6.20

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 27-4 #22A
Project:	SJB (NM Central)	TVD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Site:	SEC 14-T27N-R4W	MD Reference:	AWS 711 @ 7143.0ft (15' DF + 7128' GL)
Well:	SJ 27-4 #22A	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDMCOP

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)	
4,349.0	8.79	299.64	4,070.0	712.5	-1,177.7	1,376.5	1.76	-1.56	5.16	
4,413.0	7.07	304.58	4,133.4	717.2	-1,185.2	1,385.3	2.89	-2.69	7.72	
4,476.0	5.85	308.41	4,196.0	721.4	-1,190.9	1,392.4	2.05	-1.94	6.08	
4,540.0	4.34	315.57	4,259.7	725.1	-1,195.2	1,398.0	2.56	-2.36	11.19	
4,603.0	2.80	327.77	4,322.6	728.1	-1,197.7	1,401.6	2.71	-2.44	19.37	
4,667.0	1.85	325.66	4,386.6	730.3	-1,199.1	1,404.0	1.49	-1.48	-3.30	
4,698.0	1.62	329.13	4,417.5	731.1	-1,199.6	1,404.8	0.82	-0.74	11.19	
Last SDI MWD Survey										

Checked By: _____ Approved By: _____ Date: _____