

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

"AS DRILLED PLAT"

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30942		*Pool Code 72319/71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 7228	*Property Name KLEIN		*Well Number 28 N
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6760'

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
C	33	26N	6W		1244'	NORTH	1621'	WEST	RIO ARRIBA

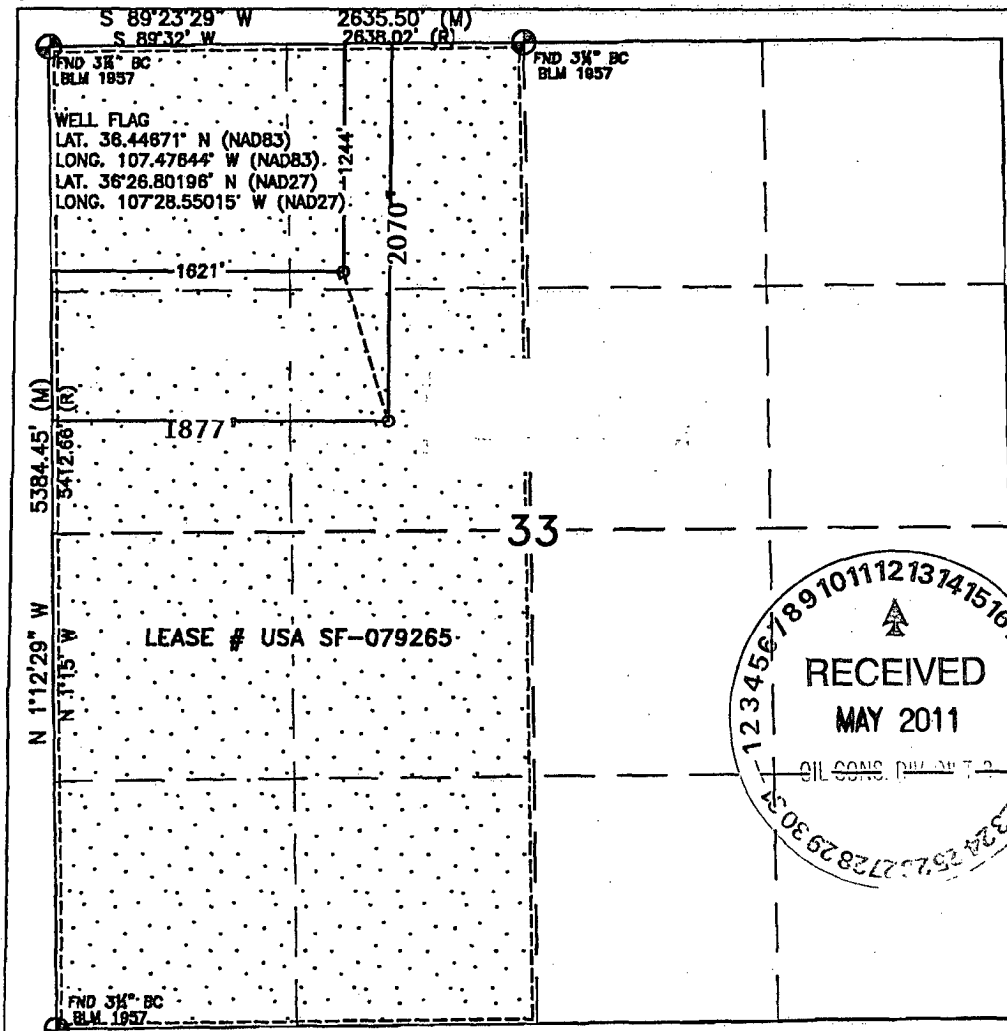
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	26N	6W		2070'	NORTH	1877'	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 ACRES - W/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

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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 undivided 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 or a compulsory pooling order heretofore entered by the division.

Signature

Date

Dollie L. Busse

Printed Name

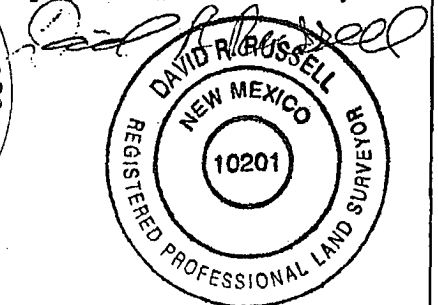
¹⁸ SURVEYOR CERTIFICATION

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.

APRIL 27, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

AV

Legal WellName : KLEIN #28N	API / UWI: 3003930942
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP	Surf Loc: 033-026N-006W-C
St/Prov: NEW MEXICO	N/S Dist (ft): 1,244.00 - FNL
County: RIO ARRIBA	E/W Dist (ft): 1,621.00 - FWL

Wellbore Name : Original Hole				
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Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	02/03/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
02/03/2011	130.00	.50	.00	Inc-WL	MOTE
02/03/2011	239.00	.50	.00	Inc-WL	MOTE

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
MWD SURVEY	02/21/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
02/22/2011	266.00	.47	23.04	IncAzi-MWD	Scientific Drilling
02/22/2011	328.00	.48	121.51	IncAzi-MWD	Scientific Drilling
02/22/2011	390.00	1.74	147.05	IncAzi-MWD	Scientific Drilling
02/22/2011	450.00	2.60	160.04	IncAzi-MWD	Scientific Drilling
02/22/2011	511.00	4.05	152.59	IncAzi-MWD	Scientific Drilling
02/22/2011	573.00	4.98	151.33	IncAzi-MWD	Scientific Drilling
02/23/2011	635.00	6.13	155.97	IncAzi-MWD	Scientific Drilling
02/23/2011	697.00	6.93	160.76	IncAzi-MWD	Scientific Drilling
02/23/2011	758.00	8.12	164.00	IncAzi-MWD	Scientific Drilling
02/23/2011	820.00	9.73	164.06	IncAzi-MWD	Scientific Drilling
02/23/2011	882.00	10.91	161.83	IncAzi-MWD	Scientific Drilling
02/23/2011	943.00	12.01	162.69	IncAzi-MWD	Scientific Drilling
02/23/2011	1,010.00	12.85	164.10	IncAzi-MWD	Scientific Drilling
02/23/2011	1,073.00	13.65	161.72	IncAzi-MWD	Scientific Drilling
02/23/2011	1,105.00	14.42	161.43	IncAzi-MWD	Scientific Drilling
02/23/2011	1,168.00	16.00	162.51	IncAzi-MWD	Scientific Drilling
02/23/2011	1,230.00	17.22	164.13	IncAzi-MWD	Scientific Drilling
02/23/2011	1,292.00	18.10	163.76	IncAzi-MWD	Scientific Drilling
02/23/2011	1,354.00	19.54	164.96	IncAzi-MWD	Scientific Drilling
02/23/2011	1,418.00	20.34	165.25	IncAzi-MWD	Scientific Drilling
02/23/2011	1,481.00	21.64	164.95	IncAzi-MWD	Scientific Drilling
02/23/2011	1,545.00	22.70	163.00	IncAzi-MWD	Scientific Drilling
02/23/2011	1,608.00	23.94	163.56	IncAzi-MWD	Scientific Drilling
02/23/2011	1,671.00	25.33	164.07	IncAzi-MWD	Scientific Drilling
02/23/2011	1,734.00	25.14	162.83	IncAzi-MWD	Scientific Drilling
02/23/2011	1,797.00	25.81	161.40	IncAzi-MWD	Scientific Drilling
02/23/2011	1,861.00	25.64	163.17	IncAzi-MWD	Scientific Drilling

02/23/2011	1,924.00	23.52	163.29	IncAzi-MWD	Scientific Drilling
02/23/2011	1,987.00	22.68	162.20	IncAzi-MWD	Scientific Drilling
02/23/2011	2,050.00	23.68	162.00	IncAzi-MWD	Scientific Drilling
02/23/2011	2,113.00	23.61	161.90	IncAzi-MWD	Scientific Drilling
02/23/2011	2,176.00	22.02	162.14	IncAzi-MWD	Scientific Drilling
02/23/2011	2,239.00	22.16	162.20	IncAzi-MWD	Scientific Drilling
02/23/2011	2,302.00	22.08	162.05	IncAzi-MWD	Scientific Drilling
02/23/2011	2,395.00	22.82	161.99	IncAzi-MWD	Scientific Drilling
02/23/2011	2,429.00	23.36	162.41	IncAzi-MWD	Scientific Drilling
02/23/2011	2,492.00	24.19	162.57	IncAzi-MWD	Scientific Drilling
02/23/2011	2,556.00	25.34	162.57	IncAzi-MWD	Scientific Drilling
02/23/2011	2,619.00	24.41	162.92	IncAzi-MWD	Scientific Drilling
02/23/2011	2,682.00	22.71	163.26	IncAzi-MWD	Scientific Drilling
02/23/2011	2,745.00	21.10	163.45	IncAzi-MWD	Scientific Drilling
02/24/2011	2,808.00	19.15	162.70	IncAzi-MWD	Scientific Drilling
02/24/2011	2,871.00	17.45	161.90	IncAzi-MWD	Scientific Drilling
02/24/2011	2,935.00	15.48	160.90	IncAzi-MWD	Scientific Drilling
02/24/2011	2,998.00	14.31	165.41	IncAzi-MWD	Scientific Drilling
02/24/2011	3,061.00	13.04	166.24	IncAzi-MWD	Scientific Drilling
02/24/2011	3,124.00	11.31	165.29	IncAzi-MWD	Scientific Drilling
02/24/2011	3,187.00	9.04	160.18	IncAzi-MWD	Scientific Drilling
02/24/2011	3,250.00	7.46	163.64	IncAzi-MWD	Scientific Drilling
02/24/2011	3,314.00	5.76	166.01	IncAzi-MWD	Scientific Drilling
02/24/2011	3,377.00	4.21	174.48	IncAzi-MWD	Scientific Drilling
02/24/2011	3,422.00	3.04	185.29	IncAzi-MWD	Scientific Drilling
02/24/2011	3,478.00	1.59	185.29	Projection	Scientific Drilling

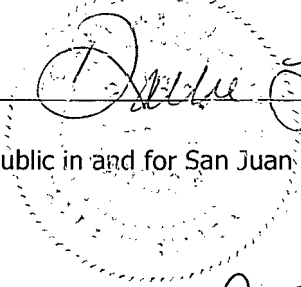
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
FINAL BH SURVEY	03/01/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
03/01/2011	5,475.00	.50	185.29	Inc-MWD	Aztec Well Servicing Co Inc
03/01/2011	5,982.00	.50	185.29	Inc-MWD	Aztec Well Servicing Co Inc
03/02/2011	6,480.00	1.00	185.29	Inc-MWD	Aztec Well Servicing Co Inc
03/04/2011	6,992.00	1.00	185.29	Inc-MWD	Aztec Well Servicing Co Inc
03/04/2011	7,480.00	1.00	185.29	Inc-MWD	Aztec Well Servicing Co Inc
03/04/2011	7,685.00	1.00	185.29	Inc-MWD	Aztec Well Servicing Co Inc

I, the undersigned, certify that I, acting in my capacity as DRILLING ENGINEER 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.

ben toman

Subscribed and sworn to me this MAY 10, 2011

 Debbie J. Busse

Notary Public in and for San Juan County, New Mexico

My Commission expires AUGUST 6, 2014



ConocoPhillips

SJB (NM Central)
SEC 33-T26N-R6W
Klein #28N

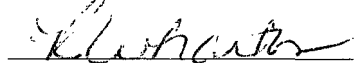
Original Hole

Survey: Actual

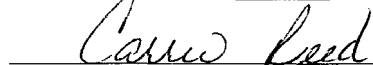
Standard Survey Report

27 February, 2011

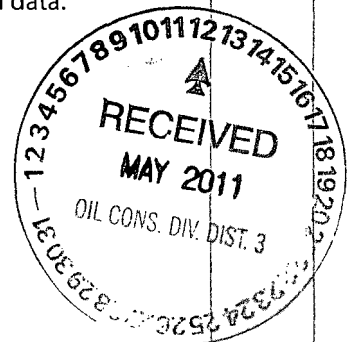
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 28th of February, 2011.



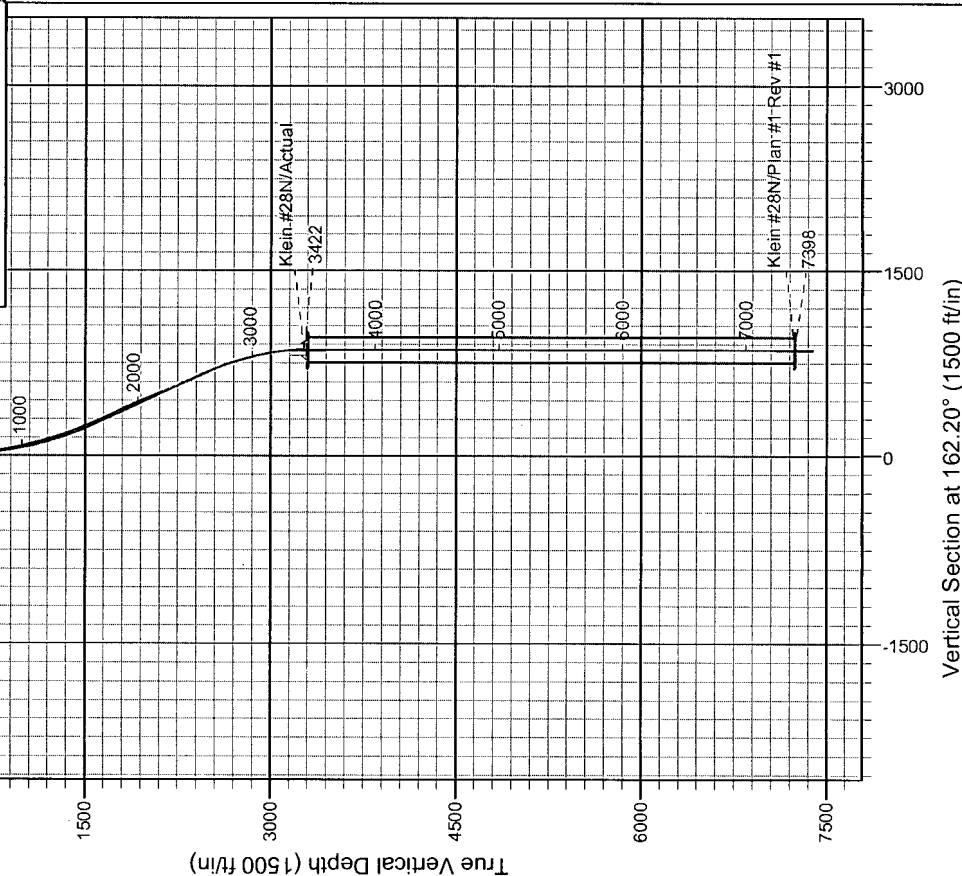
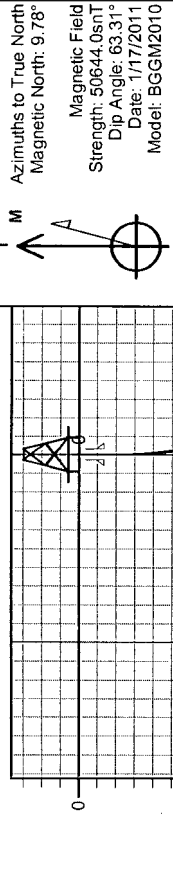
Notary Signature
County of Midland
State of Texas



Scientific Drilling
Directional Drilling Operations

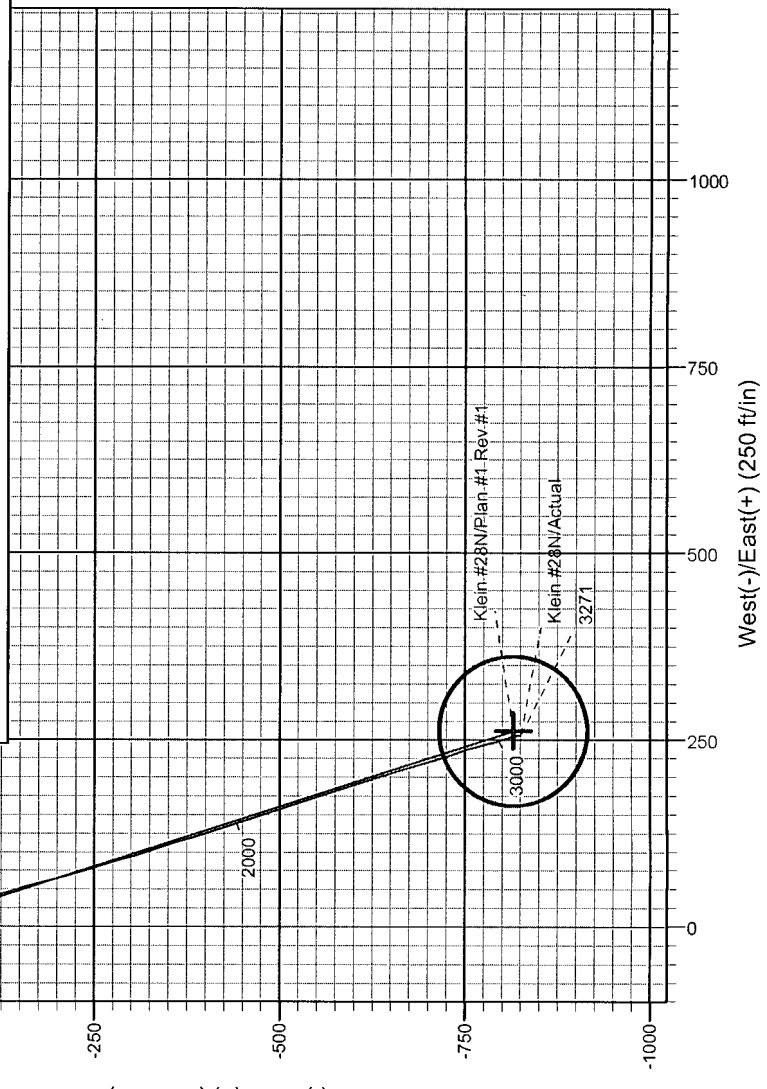


Project: SJB (NM Central)
Site: SEC 33-T26N-R6W
Well: Klein #28N
Wellbore: Original Hole
Design: Plan #1 Rev #1



WELL DETAILS: Klein #28N
AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Ground Level: 6760.0
Easting: 139458.25
Northing: 1984102.82
Latitude: 36° 26' 48.118 N
Longitude: 107° 28' 33.009 W
Slot

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Klein #28N, True North
Vertical (TVD) Reference: AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Calculation Method: Minimum Curvature



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 33-T26N-R6W
Rio Arriba County NM
Site Centre Latitude: 36° 26' 48.118 N
Longitude: 107° 28' 33.009 W
Positional Uncertainty: 7.5
Convergence: -0.73
Local North: True



Scientific Drilling International, Inc.
Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Klein #28N
Project:	SJB (NM Central)	TVD Reference:	AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Site:	SEC 33-T26N-R6W	MD Reference:	AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Well:	Klein #28N	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 33-T26N-R6W		
Site Position:		Northing:	1,984,102.82 ft
From:	Lat/Long	Easting:	139,458.25 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 26' 48.118 N
		Longitude:	107° 28' 33.009 W
		Grid Convergence:	-0.73 °

Well	Klein #28N, S-Type MV/DK Well					
Well Position	+N/-S	0.0 ft	Northing:	1,984,102.82 ft	Latitude:	36° 26' 48.118 N
	+E/-W	0.0 ft	Easting:	139,458.25 ft	Longitude:	107° 28' 33.009 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,760.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	1/17/2011	9.78	63.31	50,644

Design	Original Hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	162.78	

Survey Program	Date 2/27/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
266.0	3,422.0	Actual (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	
266.0	0.47	23.04	266.0	1.0	0.4	-0.8	0.18	0.18	0.00	
328.0	0.48	121.51	328.0	1.1	0.7	-0.8	1.16	0.02	158.82	
390.0	1.74	147.05	390.0	0.2	1.5	0.3	2.13	2.03	41.19	
450.0	2.60	160.04	449.9	-1.9	2.4	2.5	1.64	1.43	21.65	
511.0	4.05	152.59	510.8	-5.1	3.9	6.0	2.48	2.38	-12.21	
573.0	4.98	151.33	572.6	-9.4	6.2	10.8	1.51	1.50	-2.03	
635.0	6.13	155.97	634.4	-14.8	8.8	16.7	1.99	1.85	7.48	
697.0	6.93	160.76	695.9	-21.3	11.4	23.8	1.56	1.29	7.73	
758.0	8.12	164.00	756.4	-28.9	13.8	31.7	2.07	1.95	5.31	
820.0	9.73	164.06	817.7	-38.2	16.5	41.4	2.60	2.60	0.10	
882.0	10.91	161.83	878.7	-48.8	19.7	52.5	2.01	1.90	-3.60	
943.0	12.01	162.69	938.4	-60.3	23.4	64.6	1.82	1.80	1.41	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Klein #28N
Project:	SJB (NM Central)	TVD Reference:	AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Site:	SEC 33-T26N-R6W	MD Reference:	AWS 673 @ 6775.0ft (15' DF + 6760' GL)
Well:	Klein #28N	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)
1,010.0	12.85	164.10	1,003.9	-74.2	27.5	79.0	1.33	1.25	2.10
1,073.0	13.65	161.72	1,065.2	-88.0	31.8	93.4	1.54	1.27	-3.78
1,105.0	14.42	161.43	1,096.2	-95.3	34.2	101.2	2.42	2.41	-0.91
1,168.0	16.00	162.51	1,157.0	-111.0	39.4	117.7	2.55	2.51	1.71
1,230.0	17.22	164.13	1,216.4	-128.0	44.4	135.4	2.10	1.97	2.61
1,292.0	18.10	163.76	1,275.5	-146.1	49.6	154.2	1.43	1.42	-0.60
1,354.0	19.54	164.96	1,334.2	-165.4	55.0	174.2	2.40	2.32	1.94
1,418.0	20.34	165.25	1,394.4	-186.4	60.6	196.0	1.26	1.25	0.45
1,481.0	21.64	164.95	1,453.2	-208.3	66.4	218.6	2.07	2.06	-0.48
1,545.0	22.70	163.00	1,512.5	-231.5	73.1	242.7	2.02	1.66	-3.05
1,608.0	23.94	163.56	1,570.3	-255.3	80.3	267.7	2.00	1.97	0.89
1,671.0	25.33	164.07	1,627.6	-280.6	87.6	293.9	2.23	2.21	0.81
1,734.0	25.14	162.83	1,684.6	-306.3	95.2	320.8	0.89	-0.30	-1.97
1,797.0	25.81	161.40	1,741.4	-332.1	103.6	347.9	1.44	1.06	-2.27
1,861.0	25.64	163.17	1,799.1	-358.6	112.0	375.6	1.23	-0.27	2.77
1,924.0	23.52	163.29	1,856.4	-383.6	119.6	401.9	3.37	-3.37	0.19
1,987.0	22.68	162.20	1,914.3	-407.3	126.9	426.6	1.50	-1.33	-1.73
2,050.0	23.68	162.00	1,972.2	-430.8	134.5	451.4	1.59	1.59	-0.32
2,113.0	23.61	161.90	2,030.0	-454.9	142.4	476.6	0.13	-0.11	-0.16
2,176.0	22.02	162.14	2,088.0	-478.1	149.9	501.1	2.53	-2.52	0.38
2,239.0	22.16	162.20	2,146.4	-500.7	157.2	524.7	0.23	0.22	0.10
2,302.0	22.08	162.05	2,204.8	-523.2	164.4	548.5	0.16	-0.13	-0.24
2,395.0	22.82	161.99	2,290.7	-557.0	175.4	584.0	0.80	0.80	-0.06
2,429.0	23.36	162.41	2,322.0	-569.7	179.5	597.3	1.66	1.59	1.24
2,492.0	24.19	162.57	2,379.6	-593.9	187.1	622.7	1.32	1.32	0.25
2,556.0	25.34	162.57	2,437.8	-619.5	195.2	649.5	1.80	1.80	0.00
2,619.0	24.41	162.92	2,494.9	-644.8	203.0	676.0	1.49	-1.48	0.56
2,682.0	22.71	163.26	2,552.7	-668.9	210.3	701.2	2.71	-2.70	0.54
2,745.0	21.10	163.45	2,611.1	-691.4	217.1	724.7	2.56	-2.56	0.30
2,808.0	19.15	162.70	2,670.3	-712.2	223.4	746.4	3.12	-3.10	-1.19
2,871.0	17.45	161.90	2,730.1	-731.0	229.4	766.2	2.73	-2.70	-1.27
2,935.0	15.48	160.90	2,791.4	-748.2	235.2	784.3	3.11	-3.08	-1.56
2,998.0	14.31	165.41	2,852.3	-763.7	239.9	800.5	2.61	-1.86	7.16
3,061.0	13.04	166.24	2,913.5	-778.1	243.5	815.3	2.04	-2.02	1.32
3,124.0	11.31	165.29	2,975.1	-791.0	246.8	828.6	2.76	-2.75	-1.51
3,187.0	9.04	160.18	3,037.1	-801.6	250.0	839.7	3.87	-3.60	-8.11
3,250.0	7.46	163.64	3,099.5	-810.2	252.9	848.8	2.63	-2.51	5.49
3,314.0	5.76	166.01	3,163.0	-817.3	254.8	856.1	2.69	-2.66	3.70
3,377.0	4.21	174.48	3,225.8	-822.7	255.8	861.5	2.72	-2.46	13.44
3,422.0	3.04	185.29	3,270.7	-825.5	255.8	864.3	3.00	-2.60	24.02