

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

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102

Revised October 12, 2005

Submit to: Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35006		² Pool Code 71629	Pool Name Basin Fruitland Coal
⁴ Property Code 18631	³ Property Name TRAIL CANYON		⁶ Well Number 1005
⁷ GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		Elevation 6661'

¹⁰ Surface Location

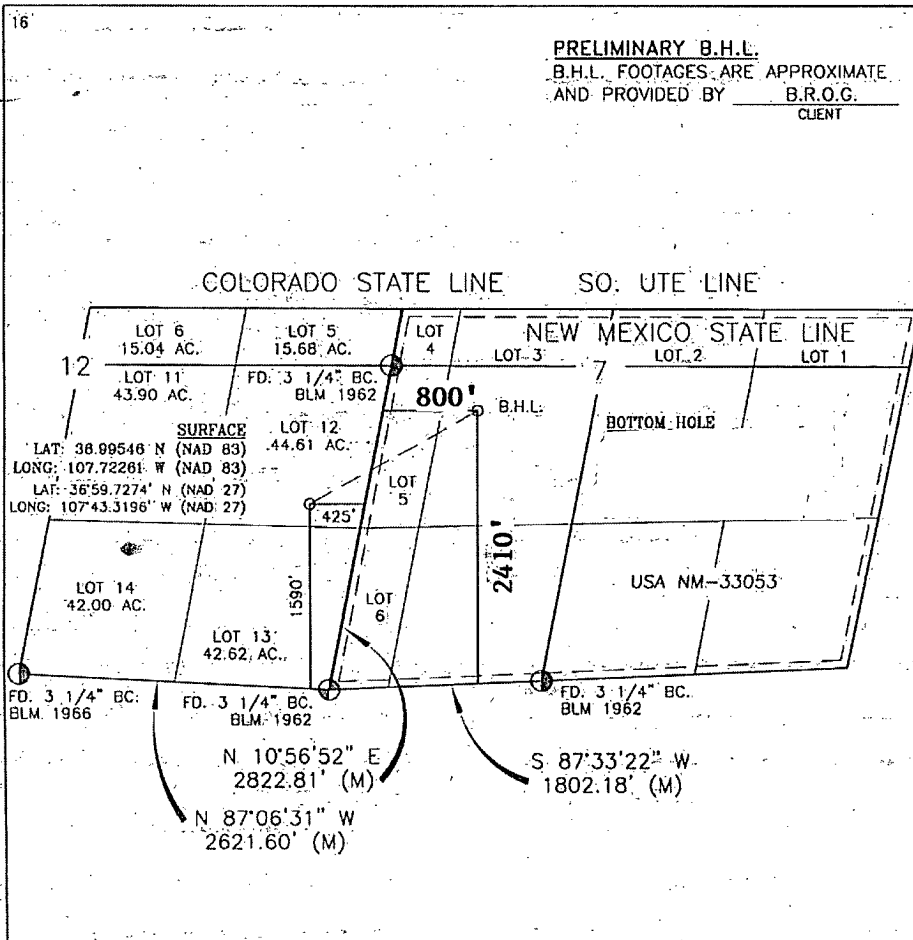
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	12	32-N	9-W	12	1590	SOUTH	425	EAST	SAN JUAN

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
K	7	32-N	8-W	5	2410	SOUTH	800	WEST	SAN JUAN

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD OCT 13 '10 OIL CONS. DIV.
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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 **DIST. 3**



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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 10/11/10
Signature Date

Crystal Tafoya 10/11/10
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 knowledge and belief.

MAY 9, 2008
Date of Survey

Roy A. Rush
Signature and Seal of Professional Surveyor

ROY A. RUSH
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8894
06 7-08

Certificate Number

Legal WellName : TRAIL CANYON #100S

API / UWI: 3004535006

Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP

Surf Loc: 012-032N-009W-I

St/Prov: NEW MEXICO

N/S Dist (ft): 1,590.00 - FSL

County: SAN JUAN

E/W Dist (ft): 425.00 - FEL

Wellbore Name : Original Hole

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	05/05/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/05/2010	132.00	.50	.00	Inc-Drop	MO-TE DRILLING INC.
05/05/2010	212.00	.75	.00	Inc-Drop	MO-TE DRILLING INC.

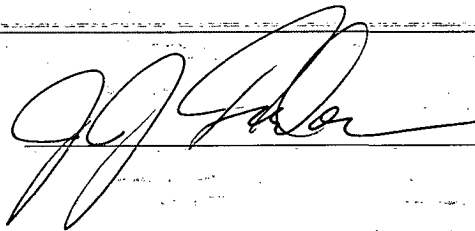
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
DIRECTIONAL SURVEY	05/12/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/12/2010	267.00	.12	161.47	IncAzi-MWD	Scientific Drilling
05/12/2010	328.00	.74	21.11	IncAzi-MWD	Scientific Drilling
05/12/2010	390.00	4.14	37.70	IncAzi-MWD	Scientific Drilling
05/12/2010	451.00	6.28	37.73	IncAzi-MWD	Scientific Drilling
05/12/2010	512.00	8.61	45.37	IncAzi-MWD	Scientific Drilling
05/12/2010	573.00	11.02	56.11	IncAzi-MWD	Scientific Drilling
05/12/2010	635.00	13.64	61.58	IncAzi-MWD	Scientific Drilling
05/13/2010	696.00	16.69	59.39	IncAzi-MWD	Scientific Drilling
05/13/2010	757.00	19.23	57.25	IncAzi-MWD	Scientific Drilling
05/13/2010	818.00	22.22	56.37	IncAzi-MWD	Scientific Drilling
05/13/2010	879.00	24.60	56.11	IncAzi-MWD	Scientific Drilling
05/13/2010	941.00	26.55	56.63	IncAzi-MWD	Scientific Drilling
05/13/2010	1,004.00	29.21	57.88	IncAzi-MWD	Scientific Drilling
05/13/2010	1,067.00	31.26	57.85	IncAzi-MWD	Scientific Drilling
05/13/2010	1,130.00	34.01	58.49	IncAzi-MWD	Scientific Drilling
05/13/2010	1,193.00	36.08	59.12	IncAzi-MWD	Scientific Drilling
05/13/2010	1,254.00	37.64	60.18	IncAzi-MWD	Scientific Drilling
05/13/2010	1,317.00	38.40	59.70	IncAzi-MWD	Scientific Drilling
05/13/2010	1,381.00	39.89	59.95	IncAzi-MWD	Scientific Drilling
05/13/2010	1,444.00	40.43	59.80	IncAzi-MWD	Scientific Drilling
05/15/2010	1,507.00	40.40	59.49	IncAzi-MWD	Scientific Drilling
05/15/2010	1,570.00	40.12	59.35	IncAzi-MWD	Scientific Drilling
05/15/2010	1,634.00	40.12	59.40	IncAzi-MWD	Scientific Drilling
05/15/2010	1,696.00	39.72	59.23	IncAzi-MWD	Scientific Drilling
05/13/2010	1,760.00	39.24	58.50	IncAzi-MWD	Scientific Drilling
05/13/2010	1,824.00	39.68	58.96	IncAzi-MWD	Scientific Drilling
05/13/2010	1,887.00	39.86	59.57	IncAzi-MWD	Scientific Drilling

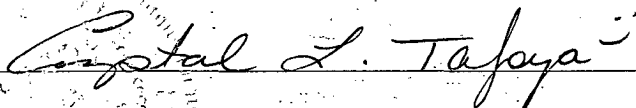
05/13/2010	1,950.00	39.58	59.14	IncAzi-MWD	Scientific Drilling
05/13/2010	2,014.00	38.39	58.94	IncAzi-MWD	Scientific Drilling
05/13/2010	2,077.00	38.24	58.52	IncAzi-MWD	Scientific Drilling
05/13/2010	2,140.00	37.84	58.48	IncAzi-MWD	Scientific Drilling
05/13/2010	2,204.00	37.68	58.35	IncAzi-MWD	Scientific Drilling
05/13/2010	2,266.00	38.75	59.30	IncAzi-MWD	Scientific Drilling
05/13/2010	2,330.00	40.35	59.87	IncAzi-MWD	Scientific Drilling
05/13/2010	2,392.00	40.35	61.02	IncAzi-MWD	Scientific Drilling
05/13/2010	2,456.00	39.64	59.73	IncAzi-MWD	Scientific Drilling
05/13/2010	2,519.00	39.52	59.23	IncAzi-MWD	Scientific Drilling
05/13/2010	2,582.00	38.37	59.12	IncAzi-MWD	Scientific Drilling
05/13/2010	2,646.00	37.57	59.20	IncAzi-MWD	Scientific Drilling
05/13/2010	2,709.00	37.55	58.09	IncAzi-MWD	Scientific Drilling
05/13/2010	2,773.00	36.68	58.80	IncAzi-MWD	Scientific Drilling
05/13/2010	2,836.00	34.79	58.73	IncAzi-MWD	Scientific Drilling
05/14/2010	2,899.00	32.00	59.64	IncAzi-MWD	Scientific Drilling
05/14/2010	2,962.00	29.14	60.23	IncAzi-MWD	Scientific Drilling
05/14/2010	3,025.00	27.65	60.17	IncAzi-MWD	Scientific Drilling
05/14/2010	3,089.00	26.00	60.58	IncAzi-MWD	Scientific Drilling
05/14/2010	3,152.00	24.32	60.68	IncAzi-MWD	Scientific Drilling
05/14/2010	3,215.00	22.55	60.26	IncAzi-MWD	Scientific Drilling
05/14/2010	3,278.00	20.93	58.92	IncAzi-MWD	Scientific Drilling
05/14/2010	3,341.00	18.54	57.03	IncAzi-MWD	Scientific Drilling
05/15/2010	3,403.00	15.44	52.81	IncAzi-MWD	Scientific Drilling
05/15/2010	3,466.00	12.91	49.22	IncAzi-MWD	Scientific Drilling
05/15/2010	3,529.00	10.54	49.39	IncAzi-MWD	Scientific Drilling
05/15/2010	3,593.00	9.76	49.17	IncAzi-MWD	Scientific Drilling
05/15/2010	3,657.00	7.19	46.30	IncAzi-MWD	Scientific Drilling
05/15/2010	3,720.00	6.10	45.77	IncAzi-MWD	Scientific Drilling
05/15/2010	3,783.00	5.49	44.17	IncAzi-MWD	Scientific Drilling
05/15/2010	3,846.00	4.97	43.27	IncAzi-MWD	Scientific Drilling
05/15/2010	3,909.00	4.50	38.52	IncAzi-MWD	Scientific Drilling
05/15/2010	3,972.00	4.04	38.84	IncAzi-MWD	Scientific Drilling
05/15/2010	4,035.00	3.55	40.30	IncAzi-MWD	Scientific Drilling
05/15/2010	4,099.00	3.58	39.68	IncAzi-MWD	Scientific Drilling
05/15/2010	4,162.00	3.51	36.99	IncAzi-MWD	Scientific Drilling
05/15/2010	4,238.00	3.69	35.59	IncAzi-MWD	Scientific Drilling
05/15/2010	4,290.00	3.81	34.63	IncAzi-MWD	Scientific Drilling
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
FINAL BH SURVEY	05/27/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/27/2010	4,199.00	1.75	.00	Inc-WL	PHOENIX

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.



Subscribed and sworn to me this October 11, 2010



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2014

RCVD OCT 13 '10

OIL CONS. DIV.

DIST. 3

ConocoPhillips

SJB (NM West)

SEC 12-T32N-R9W

Trail Canyon #100S

API # 30.045.38006

Original Hole

Survey: Actual

Standard Survey Report

21 May, 2010

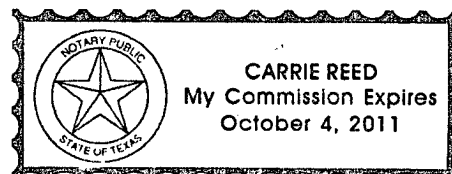
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 24th of May, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas

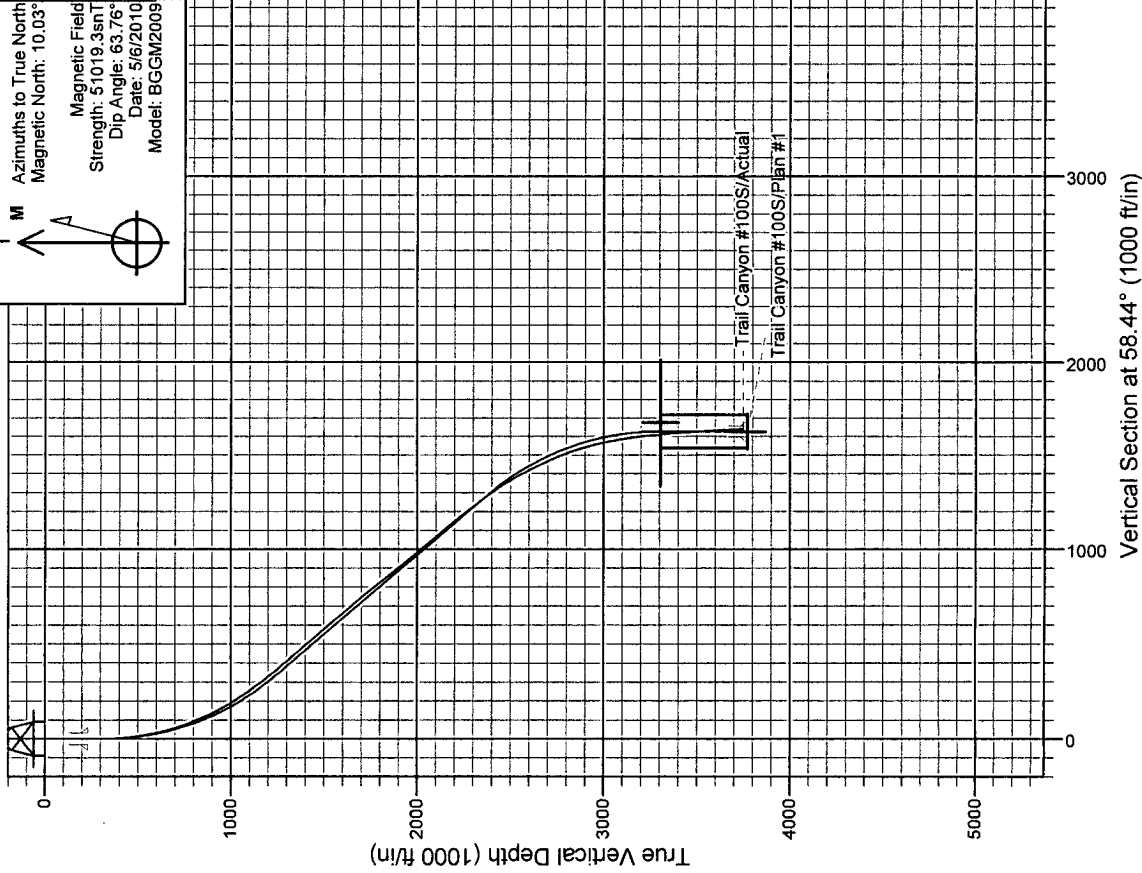
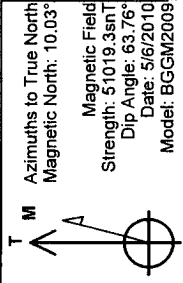




Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
SEC 12-T32N-R9W
Well: Trail Canyon #100S
Wellbore: Original Hole
Design: Plan #1
Site:

ConocoPhillips



WELL DETAILS: Trail Canyon #100S
DFE @ 6676.0ft (AWS 730)

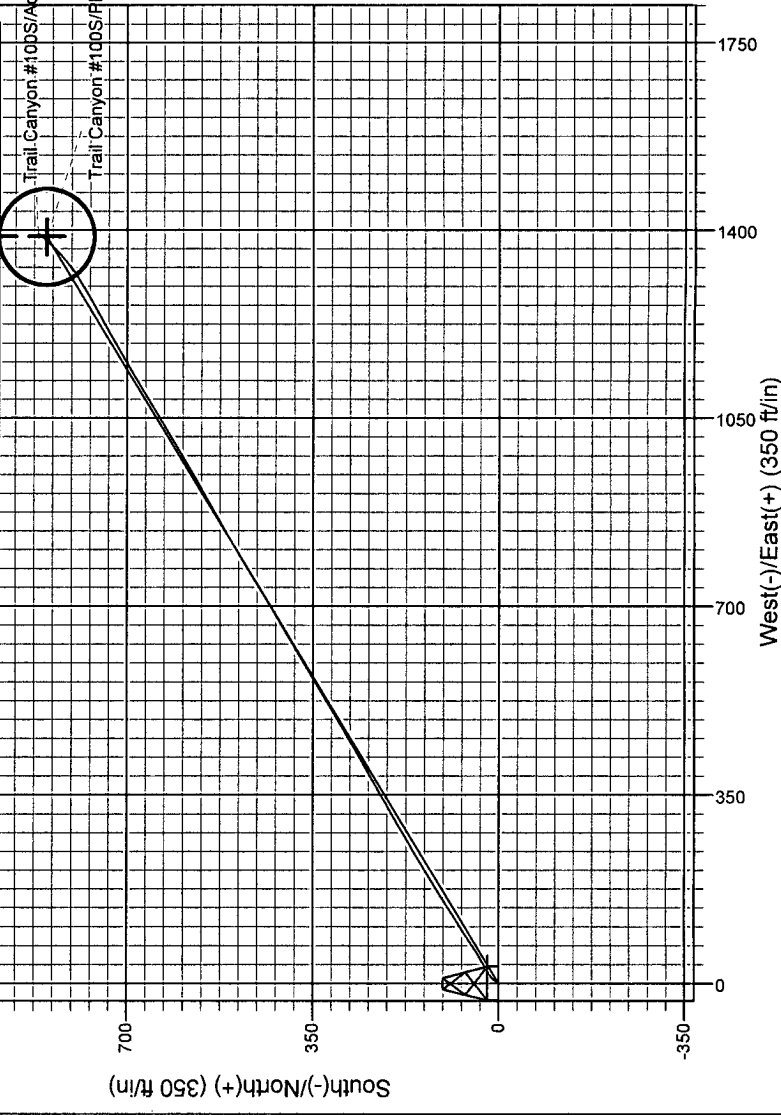
Ground Level:	Easting	Latitude	Longitude	Slot
532514.92	36° 59' 43.644 N	107° 43' 19.176 W		

+E/-W 0.0
Northing 2181634.63

+N/-S 0.0

REFERENCE INFORMATION

Go-ordinate (N/E) Reference: Well-Trail Canyon #100S; True North
Vertical (TVD) Reference: DFE @ 6676.0ft (AWS 730)
Section (VS) Reference: Slot- (0.0N) 0.0(E)
Measured Depth Reference: DFE @ 6676.0ft (AWS 730)
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 West)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

SITE DETAILS: SEC 12-T32N-R9W
San Juan County NM
Site Centre Latitude: 36° 59' 43.644 N
Longitude: 107° 43' 19.176 W
Positional Uncertainty: 0.0
Convergence: 0.07
Local North: True

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Trail Canyon #100S
Project:	SJB (NM West)	TVD Reference:	DFE @ 6676.0ft (AWS 730)
Site:	SEC 12-T32N-R9W	MD Reference:	DFE @ 6676.0ft (AWS 730)
Well:	Trail Canyon #100S	North Reference:	True
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	edmCOP

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 12-T32N-R9W			
Site Position:		Northing:	2,181,634.63 ft	Latitude:	36° 59' 43.644 N
From:	Lat/Long	Easting:	532,514.92 ft	Longitude:	107° 43' 19.176 W
Position Uncertainty:	0.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.07 °

Well	Trail Canyon #100S, S-Type FC Well					
Well Position	+N/-S	0.0 ft	Northing:	2,181,634.63 ft	Latitude:	36° 59' 43.644 N
	+E/-W	0.0 ft	Easting:	532,514.92 ft	Longitude:	107° 43' 19.176 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,661.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/6/2010	10.03	63.76	51,019

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	58.07

Survey Program	Date 5/21/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
267.0	4,238.0	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	
267.0	0.12	161.47	267.0	-0.3	0.1	-0.1	0.04	0.04	0.00	
328.0	0.74	21.11	328.0	0.0	0.3	0.2	1.37	1.02	-230.10	
390.0	4.14	37.70	389.9	2.2	1.8	2.7	5.54	5.48	26.76	
451.0	6.28	37.73	450.7	6.6	5.2	7.8	3.51	3.51	0.05	
512.0	8.61	45.37	511.2	12.4	10.4	15.4	4.14	3.82	12.52	
573.0	11.02	56.11	571.3	18.9	18.5	25.7	4.95	3.95	17.61	
635.0	13.64	61.58	631.8	25.7	29.9	38.9	4.62	4.23	8.82	
696.0	16.69	59.39	690.7	33.5	43.8	54.9	5.09	5.00	-3.59	
757.0	19.23	57.25	748.7	43.4	59.7	73.7	4.30	4.16	-3.51	
818.0	22.22	56.37	805.8	55.3	77.8	95.3	4.93	4.90	-1.44	
879.0	24.60	56.11	861.7	68.7	97.9	119.5	3.91	3.90	-0.43	
941.0	26.55	56.63	917.7	83.6	120.2	146.2	3.17	3.15	0.84	

Scientific Drilling International, Inc.

Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Trail Canyon #100S
Project:	SJB (NM West)	TVD Reference:	DFE @ 6676.0ft (AWS 730)
Site:	SEC 12-T32N-R9W	MD Reference:	DFE @ 6676.0ft (AWS 730)
Well:	Trail Canyon #100S	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)	
1,004.0	29.21	57.88	973.4	99.5	145.0	175.7	4.32	4.22	1.98	
1,067.0	31.26	57.85	1,027.8	116.3	171.9	207.4	3.25	3.25	-0.05	
1,130.0	34.01	58.49	1,080.8	134.3	200.7	241.4	4.40	4.37	1.02	
1,193.0	36.08	59.12	1,132.4	153.0	231.7	277.5	3.34	3.29	1.00	
1,254.0	37.64	60.18	1,181.2	171.5	263.3	314.1	2.76	2.56	1.74	
1,317.0	38.40	59.70	1,230.8	190.9	296.9	352.9	1.29	1.21	-0.76	
1,381.0	39.89	59.95	1,280.5	211.2	331.8	393.3	2.34	2.33	0.39	
1,444.0	40.43	59.80	1,328.6	231.6	366.9	433.9	0.87	0.86	-0.24	
1,507.0	40.40	59.49	1,376.6	252.3	402.2	474.7	0.32	-0.05	-0.49	
1,570.0	40.12	59.35	1,424.7	273.0	437.2	515.4	0.47	-0.44	-0.22	
1,634.0	40.12	59.40	1,473.6	294.0	472.7	556.7	0.05	0.00	0.08	
1,696.0	39.72	59.23	1,521.2	314.3	506.9	596.4	0.67	-0.65	-0.27	
1,760.0	39.24	58.50	1,570.6	335.3	541.8	637.1	1.04	-0.75	-1.14	
1,824.0	39.68	58.96	1,620.0	356.4	576.5	677.8	0.83	0.69	0.72	
1,887.0	39.86	59.57	1,668.4	377.0	611.2	718.1	0.68	0.29	0.97	
1,950.0	39.58	59.14	1,716.8	397.5	645.8	758.3	0.62	-0.44	-0.68	
2,014.0	38.39	58.94	1,766.6	418.3	680.3	798.6	1.87	-1.86	-0.31	
2,077.0	38.24	58.52	1,816.0	438.5	713.7	837.7	0.48	-0.24	-0.67	
2,140.0	37.84	58.48	1,865.6	458.8	746.8	876.5	0.64	-0.63	-0.06	
2,204.0	37.68	58.35	1,916.2	479.3	780.2	915.7	0.28	-0.25	-0.20	
2,266.0	38.75	59.30	1,965.0	499.2	813.0	954.0	1.97	1.73	1.53	
2,330.0	40.35	59.87	2,014.3	519.8	848.2	994.7	2.56	2.50	0.89	
2,392.0	40.35	61.02	2,061.6	539.6	883.1	1,034.9	1.20	0.00	1.85	
2,456.0	39.64	59.73	2,110.6	559.9	918.8	1,076.0	1.71	-1.11	-2.02	
2,519.0	39.52	59.28	2,159.1	580.3	953.4	1,116.1	0.49	-0.19	-0.71	
2,582.0	38.37	59.12	2,208.1	600.6	987.4	1,155.7	1.83	-1.83	-0.25	
2,646.0	37.57	59.20	2,258.6	620.8	1,021.2	1,195.0	1.25	-1.25	0.13	
2,709.0	37.55	58.09	2,308.5	640.8	1,054.0	1,233.4	1.07	-0.03	-1.76	
2,773.0	36.68	58.80	2,359.6	661.0	1,086.9	1,272.1	1.52	-1.36	1.11	
2,836.0	34.79	58.73	2,410.7	680.1	1,118.4	1,308.8	3.00	-3.00	-0.11	
2,899.0	32.00	59.64	2,463.3	697.8	1,148.2	1,343.5	4.50	-4.43	1.44	
2,962.0	29.14	60.23	2,517.5	713.9	1,175.9	1,375.5	4.56	-4.54	0.94	
3,025.0	27.65	60.17	2,573.0	728.8	1,201.9	1,405.5	2.37	-2.37	-0.10	
3,089.0	26.00	60.58	2,630.1	743.0	1,227.0	1,434.3	2.59	-2.58	0.64	
3,152.0	24.32	60.68	2,687.1	756.2	1,250.3	1,461.1	2.67	-2.67	0.16	
3,215.0	22.55	60.26	2,744.9	768.5	1,272.1	1,486.1	2.82	-2.81	-0.67	
3,278.0	20.93	58.92	2,803.4	780.3	1,292.3	1,509.4	2.69	-2.57	-2.13	
3,341.0	18.54	57.03	2,862.7	791.6	1,310.3	1,530.7	3.93	-3.79	-3.00	
3,403.0	15.44	52.81	2,922.0	801.9	1,325.2	1,548.8	5.38	-5.00	-6.81	
3,466.0	12.91	49.22	2,983.1	811.6	1,337.2	1,564.1	4.25	-4.02	-5.70	
3,529.0	10.54	49.39	3,044.7	820.0	1,346.9	1,576.7	3.76	-3.76	0.27	
3,593.0	9.76	49.17	3,107.7	827.3	1,355.4	1,587.9	1.22	-1.22	-0.34	
3,657.0	7.19	46.30	3,171.0	833.6	1,362.4	1,597.2	4.07	-4.02	-4.48	
3,720.0	6.10	45.77	3,233.6	838.7	1,367.7	1,604.3	1.73	-1.73	-0.84	
3,783.0	5.49	44.17	3,296.3	843.2	1,372.2	1,610.5	1.00	-0.97	-2.54	
3,846.0	4.97	43.27	3,359.0	847.3	1,376.1	1,616.1	0.84	-0.83	-1.43	
3,909.0	4.50	38.52	3,421.8	851.3	1,379.6	1,621.0	0.97	-0.75	-7.54	
3,972.0	4.04	38.84	3,484.6	854.9	1,382.5	1,625.5	0.73	-0.73	0.51	
4,035.0	3.55	40.30	3,547.5	858.1	1,385.1	1,629.4	0.79	-0.78	2.32	
4,099.0	3.58	39.68	3,611.4	861.2	1,387.7	1,633.2	0.08	0.05	-0.97	
4,162.0	3.51	36.99	3,674.3	864.2	1,390.1	1,636.9	0.29	-0.11	-4.27	
4,238.0	3.69	35.59	3,750.1	868.1	1,392.9	1,641.3	0.26	0.24	-1.84	