

DISTRICT I
1825 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

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

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

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

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

☐ AMENDED REPORT

"AS DRILLED PLAT"
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-35135		Pool Code 71629		Pool Name BASIN FRUITLAND COAL	
Property Code 18606		Property Name REESE MESA			Well Number 7 H
GRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			Elevation 7002'

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	10	32N	8W	11	1215'	NORTH	1305'	EAST	SAN JUAN

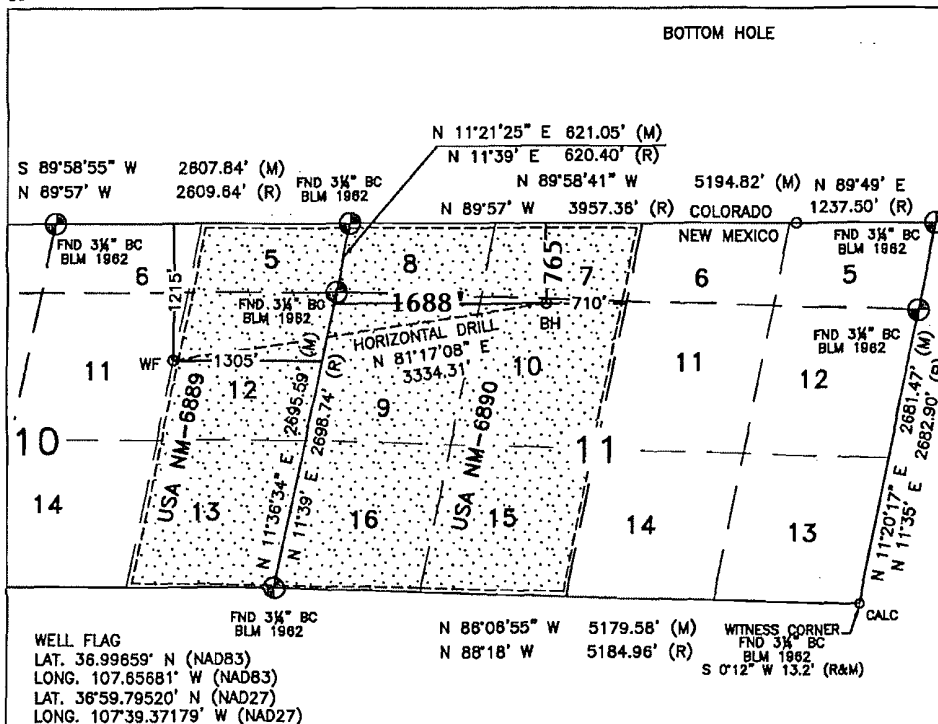
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	11	32N	8W	10	765	NORTH	1688	WEST	SAN JUAN

¹² Dedicated Acres 293.65 Acres		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-9055			
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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.

Crystal Tafoya 11/10/10
Signature Date

Crystal Tafoya 11/10/10
Printed Name

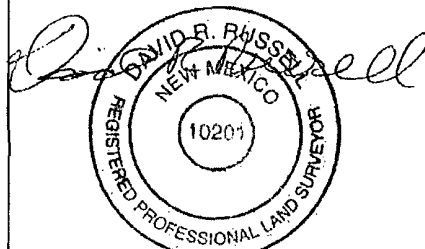
¹⁸ SURVEYOR CERTIFICATION

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 belief.

OCTOBER 1, 2008

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL
Certificate Number 10201



Legal WellName : REESE MESA #7H	API / UWI: 3004535135
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP	Surf Loc: 010-032N-008W-I
St/Prov: NEW MEXICO	N/S Dist (ft): 1,215.00 - FNL
County: SAN JUAN	E/W Dist (ft): 1,305.00 - FEL

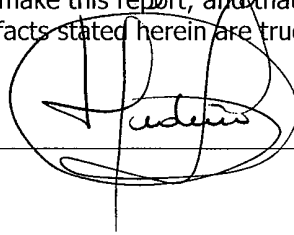
Wellbore Name : Original Hole					
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
INCLINATION SURVEY	08/04/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
08/04/2010	130.00	1.25	.00	Inc-WL	MOTE
08/04/2010	236.00	1.25	.00	Inc-WL	MOTE
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
DIRECTIONAL SURVEY	09/13/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
09/13/2010	.00	.00	.00	IncAzi-MWD	Scientific Drilling
09/13/2010	264.00	.39	141.27	IncAzi-MWD	Scientific Drilling
09/13/2010	355.00	.35	132.37	IncAzi-MWD	Scientific Drilling
09/13/2010	448.00	.53	128.82	IncAzi-MWD	Scientific Drilling
09/14/2010	540.00	.45	169.44	IncAzi-MWD	Scientific Drilling
09/14/2010	632.00	.59	110.04	IncAzi-MWD	Scientific Drilling
09/14/2010	725.00	.74	115.50	IncAzi-MWD	Scientific Drilling
09/14/2010	817.00	.79	124.23	IncAzi-MWD	Scientific Drilling
09/14/2010	911.00	.05	191.67	IncAzi-MWD	Scientific Drilling
09/14/2010	1,005.00	.29	244.06	IncAzi-MWD	Scientific Drilling
09/14/2010	1,099.00	.55	238.71	IncAzi-MWD	Scientific Drilling
09/14/2010	1,194.00	.89	305.78	IncAzi-MWD	Scientific Drilling
09/14/2010	1,289.00	.89	314.39	IncAzi-MWD	Scientific Drilling
09/14/2010	1,384.00	.72	304.41	IncAzi-MWD	Scientific Drilling
09/14/2010	1,478.00	.65	307.25	IncAzi-MWD	Scientific Drilling
09/14/2010	1,576.00	.87	349.36	IncAzi-MWD	Scientific Drilling
09/14/2010	1,671.00	.91	327.60	IncAzi-MWD	Scientific Drilling
09/14/2010	1,766.00	.70	17.81	IncAzi-MWD	Scientific Drilling
09/14/2010	1,861.00	.74	9.71	IncAzi-MWD	Scientific Drilling
09/15/2010	1,957.00	.87	24.65	IncAzi-MWD	Scientific Drilling
09/15/2010	2,051.00	1.36	27.39	IncAzi-MWD	Scientific Drilling
09/15/2010	2,146.00	1.94	37.58	IncAzi-MWD	Scientific Drilling
09/15/2010	2,241.00	2.05	31.40	IncAzi-MWD	Scientific Drilling
09/15/2010	2,335.00	2.24	50.84	IncAzi-MWD	Scientific Drilling
09/15/2010	2,398.00	2.02	53.89	IncAzi-MWD	Scientific Drilling
09/15/2010	2,461.00	2.88	55.48	IncAzi-MWD	Scientific Drilling
09/15/2010	2,492.00	4.05	64.17	IncAzi-MWD	Scientific Drilling

09/15/2010	2,524.00	5.06	64.94	IncAzi-MWD	Scientific Drilling
09/15/2010	2,555.00	6.64	68.93	IncAzi-MWD	Scientific Drilling
09/15/2010	2,586.00	8.13	69.69	IncAzi-MWD	Scientific Drilling
09/15/2010	2,618.00	9.93	70.36	IncAzi-MWD	Scientific Drilling
09/15/2010	2,650.00	10.53	76.38	IncAzi-MWD	Scientific Drilling
09/15/2010	2,681.00	11.28	80.46	IncAzi-MWD	Scientific Drilling
09/16/2010	2,713.00	11.72	82.33	IncAzi-MWD	Scientific Drilling
09/16/2010	2,744.00	12.41	86.33	IncAzi-MWD	Scientific Drilling
09/16/2010	2,776.00	13.97	85.06	IncAzi-MWD	Scientific Drilling
09/16/2010	2,807.00	15.48	83.97	IncAzi-MWD	Scientific Drilling
09/16/2010	2,839.00	16.77	83.28	IncAzi-MWD	Scientific Drilling
09/16/2010	2,870.00	17.32	82.65	IncAzi-MWD	Scientific Drilling
09/16/2010	2,902.00	18.27	81.57	IncAzi-MWD	Scientific Drilling
09/16/2010	2,934.00	19.63	82.00	IncAzi-MWD	Scientific Drilling
09/16/2010	2,965.00	21.44	81.19	IncAzi-MWD	Scientific Drilling
09/16/2010	2,996.00	23.79	80.38	IncAzi-MWD	Scientific Drilling
09/16/2010	3,028.00	25.36	81.25	IncAzi-MWD	Scientific Drilling
09/16/2010	3,059.00	27.46	80.73	IncAzi-MWD	Scientific Drilling
09/16/2010	3,091.00	29.11	80.01	IncAzi-MWD	Scientific Drilling
09/16/2010	3,122.00	31.23	79.09	IncAzi-MWD	Scientific Drilling
09/16/2010	3,154.00	33.37	79.57	IncAzi-MWD	Scientific Drilling
09/16/2010	3,185.00	35.59	79.67	IncAzi-MWD	Scientific Drilling
09/16/2010	3,217.00	37.96	81.18	IncAzi-MWD	Scientific Drilling
09/16/2010	3,248.00	40.43	83.56	IncAzi-MWD	Scientific Drilling
09/16/2010	3,280.00	42.74	83.85	IncAzi-MWD	Scientific Drilling
09/17/2010	3,311.00	45.30	83.15	IncAzi-MWD	Scientific Drilling
09/17/2010	3,343.00	46.66	82.55	IncAzi-MWD	Scientific Drilling
09/17/2010	3,374.00	48.22	81.54	IncAzi-MWD	Scientific Drilling
09/17/2010	3,406.00	49.84	82.06	IncAzi-MWD	Scientific Drilling
09/17/2010	3,438.00	52.10	82.60	IncAzi-MWD	Scientific Drilling
09/17/2010	3,469.00	53.37	83.89	IncAzi-MWD	Scientific Drilling
09/17/2010	3,501.00	55.43	83.07	IncAzi-MWD	Scientific Drilling
09/17/2010	3,532.00	57.32	83.23	IncAzi-MWD	Scientific Drilling
09/17/2010	3,564.00	58.09	83.36	IncAzi-MWD	Scientific Drilling
09/17/2010	3,595.00	58.44	82.93	IncAzi-MWD	Scientific Drilling
09/17/2010	3,627.00	59.24	82.36	IncAzi-MWD	Scientific Drilling
09/17/2010	3,658.00	59.57	82.78	IncAzi-MWD	Scientific Drilling
09/17/2010	3,690.00	59.60	83.40	IncAzi-MWD	Scientific Drilling
09/17/2010	3,722.00	60.27	83.71	IncAzi-MWD	Scientific Drilling
09/17/2010	3,753.00	61.95	83.87	IncAzi-MWD	Scientific Drilling
09/17/2010	3,785.00	63.81	83.72	IncAzi-MWD	Scientific Drilling
09/17/2010	3,816.00	66.18	82.70	IncAzi-MWD	Scientific Drilling
09/17/2010	3,848.00	68.05	82.11	IncAzi-MWD	Scientific Drilling
09/17/2010	3,879.00	69.62	81.78	IncAzi-MWD	Scientific Drilling
09/17/2010	3,911.00	70.87	82.14	IncAzi-MWD	Scientific Drilling
09/17/2010	3,943.00	72.56	81.89	IncAzi-MWD	Scientific Drilling
09/17/2010	3,974.00	74.81	81.78	IncAzi-MWD	Scientific Drilling
09/17/2010	4,006.00	76.23	81.75	IncAzi-MWD	Scientific Drilling

09/17/2010	4,037.00	77.57	82.57	IncAzi-MWD	Scientific Drilling
09/17/2010	4,069.00	78.99	82.67	IncAzi-MWD	Scientific Drilling
09/17/2010	4,101.00	80.82	83.11	IncAzi-MWD	Scientific Drilling
09/18/2010	4,132.00	83.03	82.78	IncAzi-MWD	Scientific Drilling
09/18/2010	4,164.00	84.55	82.65	IncAzi-MWD	Scientific Drilling
09/18/2010	4,195.00	84.95	83.21	IncAzi-MWD	Scientific Drilling
09/18/2010	4,227.00	84.82	83.19	IncAzi-MWD	Scientific Drilling
09/18/2010	4,258.00	86.23	82.29	IncAzi-MWD	Scientific Drilling
09/18/2010	4,290.00	87.91	81.80	IncAzi-MWD	Scientific Drilling
09/18/2010	4,300.00	88.32	81.93	IncAzi-MWD	Scientific Drilling
09/18/2010	4,355.00	90.57	82.65	Projection	Scientific Drilling
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
LATERAL SURVEYS	09/21/2010	4,300.00	88.32	81.93	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
09/21/2010	4,374.00	88.69	83.51	IncAzi-MWD	Scientific Drilling
09/21/2010	4,405.00	88.12	84.23	IncAzi-MWD	Scientific Drilling
09/21/2010	4,435.00	87.68	84.06	IncAzi-MWD	Scientific Drilling
09/21/2010	4,466.00	88.75	84.47	IncAzi-MWD	Scientific Drilling
09/21/2010	4,497.00	89.36	85.49	IncAzi-MWD	Scientific Drilling
09/21/2010	4,527.00	87.78	84.88	IncAzi-MWD	Scientific Drilling
09/21/2010	4,558.00	87.81	84.65	IncAzi-MWD	Scientific Drilling
09/21/2010	4,589.00	89.40	84.08	IncAzi-MWD	Scientific Drilling
09/21/2010	4,619.00	89.50	83.71	IncAzi-MWD	Scientific Drilling
09/21/2010	4,650.00	90.30	83.24	IncAzi-MWD	Scientific Drilling
09/21/2010	4,680.00	89.29	81.66	IncAzi-MWD	Scientific Drilling
09/21/2010	4,711.00	89.06	80.25	IncAzi-MWD	Scientific Drilling
09/21/2010	4,742.00	89.36	80.06	IncAzi-MWD	Scientific Drilling
09/21/2010	4,772.00	89.93	79.99	IncAzi-MWD	Scientific Drilling
09/21/2010	4,804.00	88.76	79.49	IncAzi-MWD	Scientific Drilling
09/21/2010	4,836.00	88.49	78.67	IncAzi-MWD	Scientific Drilling
09/21/2010	4,867.00	88.28	77.88	IncAzi-MWD	Scientific Drilling
09/21/2010	4,899.00	88.15	79.95	IncAzi-MWD	Scientific Drilling
09/21/2010	4,930.00	88.25	82.26	IncAzi-MWD	Scientific Drilling
09/21/2010	4,962.00	88.49	83.27	IncAzi-MWD	Scientific Drilling
09/21/2010	4,993.00	89.36	84.33	IncAzi-MWD	Scientific Drilling
09/21/2010	5,025.00	90.94	83.29	IncAzi-MWD	Scientific Drilling
09/21/2010	5,057.00	89.83	82.97	IncAzi-MWD	Scientific Drilling
09/21/2010	5,089.00	88.92	80.86	IncAzi-MWD	Scientific Drilling
09/21/2010	5,121.00	89.26	80.83	IncAzi-MWD	Scientific Drilling
09/21/2010	5,150.00	90.50	81.84	IncAzi-MWD	Scientific Drilling
09/21/2010	5,182.00	90.91	83.45	IncAzi-MWD	Scientific Drilling
09/21/2010	5,213.00	90.81	83.11	IncAzi-MWD	Scientific Drilling
09/21/2010	5,244.00	89.83	81.89	IncAzi-MWD	Scientific Drilling
09/21/2010	5,276.00	88.05	79.73	IncAzi-MWD	Scientific Drilling
09/21/2010	5,308.00	88.05	80.00	IncAzi-MWD	Scientific Drilling
09/21/2010	5,339.00	87.88	80.14	IncAzi-MWD	Scientific Drilling

09/21/2010	5,371.00	88.09	80.69	IncAzi-MWD	Scientific Drilling
09/21/2010	5,402.00	89.13	81.31	IncAzi-MWD	Scientific Drilling
09/21/2010	5,434.00	87.45	80.83	IncAzi-MWD	Scientific Drilling
09/21/2010	5,465.00	88.22	81.65	IncAzi-MWD	Scientific Drilling
09/21/2010	5,496.00	89.13	82.84	IncAzi-MWD	Scientific Drilling
09/21/2010	5,528.00	88.69	82.40	IncAzi-MWD	Scientific Drilling
09/21/2010	5,559.00	89.03	82.47	IncAzi-MWD	Scientific Drilling
09/21/2010	5,591.00	88.52	82.24	IncAzi-MWD	Scientific Drilling
09/21/2010	5,623.00	88.39	82.09	IncAzi-MWD	Scientific Drilling
09/21/2010	5,655.00	88.79	82.42	IncAzi-MWD	Scientific Drilling
09/21/2010	5,686.00	88.99	82.46	IncAzi-MWD	Scientific Drilling
09/21/2010	5,718.00	88.45	81.88	IncAzi-MWD	Scientific Drilling
09/21/2010	5,749.00	89.03	82.03	IncAzi-MWD	Scientific Drilling
09/21/2010	5,781.00	89.40	82.09	IncAzi-MWD	Scientific Drilling
09/21/2010	5,812.00	88.99	80.86	IncAzi-MWD	Scientific Drilling
09/21/2010	5,844.00	89.03	80.92	IncAzi-MWD	Scientific Drilling
09/21/2010	5,875.00	88.22	79.84	IncAzi-MWD	Scientific Drilling
09/21/2010	5,907.00	87.45	78.22	IncAzi-MWD	Scientific Drilling
09/21/2010	5,939.00	87.08	77.40	IncAzi-MWD	Scientific Drilling
09/21/2010	5,970.00	87.01	77.01	IncAzi-MWD	Scientific Drilling
09/21/2010	6,002.00	87.72	76.73	IncAzi-MWD	Scientific Drilling
09/21/2010	6,033.00	88.22	77.42	IncAzi-MWD	Scientific Drilling
09/21/2010	6,065.00	88.72	77.84	IncAzi-MWD	Scientific Drilling
09/21/2010	6,097.00	89.40	79.05	IncAzi-MWD	Scientific Drilling
09/21/2010	6,137.00	89.09	78.69	IncAzi-MWD	Scientific Drilling

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 November 10, 2010

Crystal L. Takeya

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2014



ConocoPhillips

SJB (NM West)

SEC 10-T32N-R8W

Reese Mesa #7H

Lateral OH

API # 30-04S-3S13S



Survey: Actual

SDI Standard Survey Report

13 October, 2010

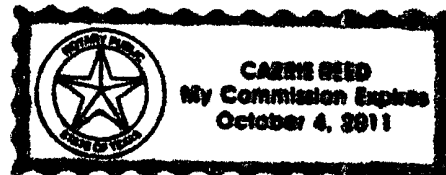
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

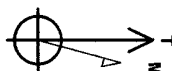
Notorized this date 13th of October, 2010.

Carmel Reed

Notary Signature
County of Midland
State of Texas



Project: SJB (NM West)
Site: SEC 10-T32N-R8W
Well: Reese Mesa #7H
Wellbore: Lateral OH
Design: Plan #2



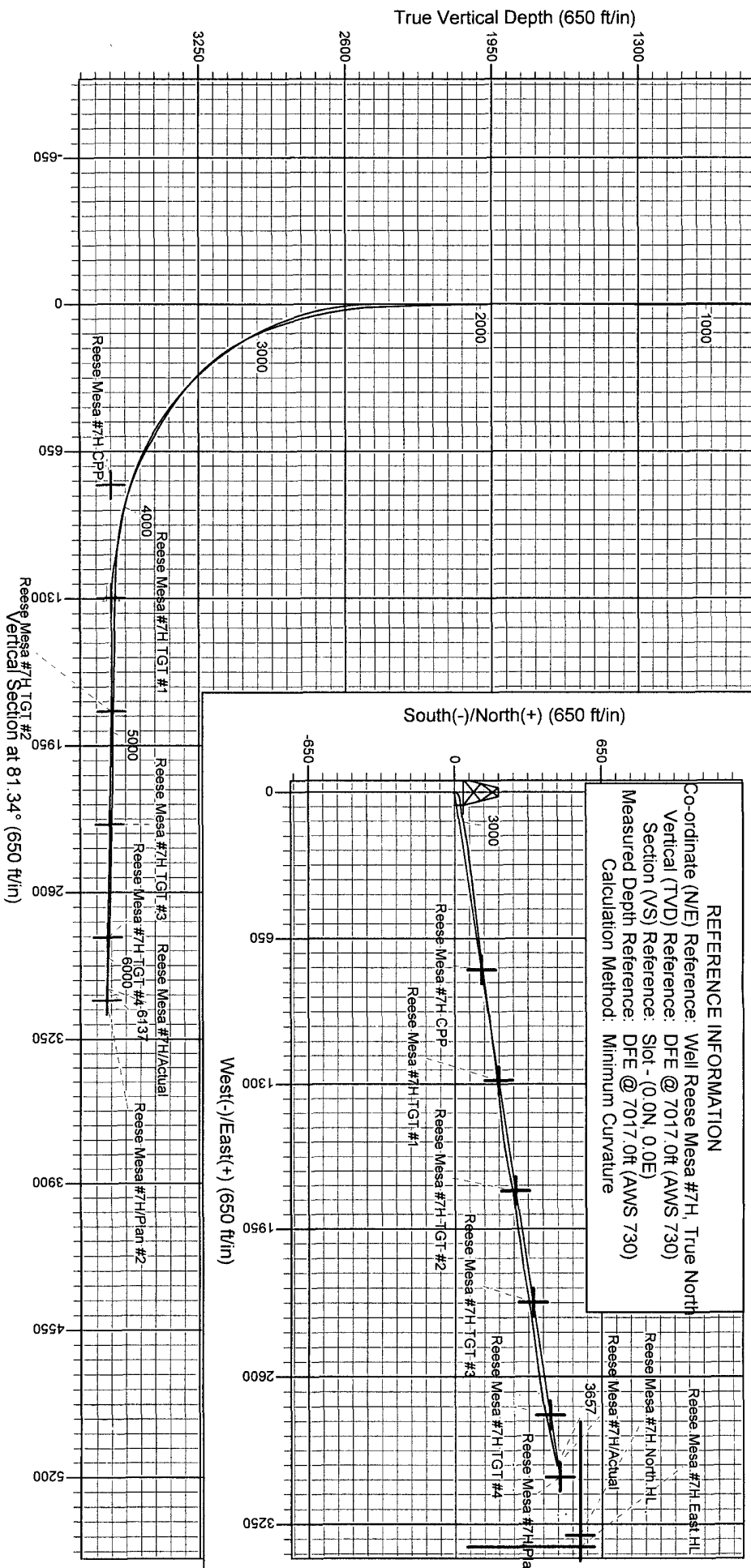
Azinuths to True North
Magnetic North: 9.96°
Magnetic Field
Strength: 50999.65nT
Dip Angle: 63.76°
Date: 8/24/2010
Model: BGM2009

+N/S 0.0
+E/W 0.0
Northing 2182075.13
Easting 551728.99

WELL DETAILS: Reese Mesa #7H
DFE @ 7017.0ft (AWS 730)
Ground Level: 7002.0
Latitude 36° 59' 47.712 N
Longitude 107° 39' 22.307 W

Longitude 107° 39' 22.307 W

Site



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Reese Mesa #7H, True North
Vertical (TVD) Reference: DFE @ 7017.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 7017.0ft (AWS 730)
Calculation Method: Minimum Curvature

Reese Mesa #7H East HL
Reese Mesa #7H North HL
Reese Mesa #7H Actual

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 10-T32N-R8W

San Juan
Site Centre Latitude: 36° 59' 47.712 N
Longitude: 107° 39' 22.307 W
Positional Uncertainty: 1.7
Convergence: 0.11
Local North: True

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Reese Mesa #7H
Project:	SJB (NM West)	TVD Reference:	DFE @ 7017.0ft (AWS 730)
Site:	SEC 10-T32N-R8W	MD Reference:	DFE @ 7017.0ft (AWS 730)
Well:	Reese Mesa #7H	North Reference:	True
Wellbore:	Lateral OH	Survey Calculation Method:	Minimum Curvature
Design:	Lateral OH	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 10-T32N-R8W		
Site Position:		Northing:	2,182,075.13 ft
From:	Lat/Long	Easting:	551,728.99 ft
Position Uncertainty:	3.5 ft	Slot Radius:	6-1/8"
		Latitude:	36° 59' 47.712 N
		Longitude:	107° 39' 22.307 W
		Grid Convergence:	0.11 °

Well	Reese Mesa #7H, CBM Single Lateral		
Well Position	+N/-S	0.0 ft	Northing: 2,182,075.13 ft
	+E/-W	0.0 ft	Easting: 551,728.99 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 59' 47.712 N
		Longitude:	107° 39' 22.307 W
		Ground Level:	7,002.0 ft

Wellbore	Lateral OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2009	8/24/2010	9.96	63.76	51,000

Design	Lateral OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	81.34

Survey Program	Date	10/13/2010		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
264.0	6,137.0	Actual (Lateral OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(ft)	(°)	(°)	Depth	(ft)	(ft)	(°)	(ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
264.0	0.39	141.27	264.0	-0.7	0.6	141.27	0.9	
355.0	0.35	132.37	355.0	-1.1	1.0	139.61	1.5	
448.0	0.53	128.82	448.0	-1.6	1.5	136.57	2.2	
540.0	0.45	169.44	540.0	-2.2	1.9	139.29	2.9	
632.0	0.59	110.04	632.0	-2.7	2.4	138.50	3.6	
725.0	0.74	115.50	725.0	-3.2	3.4	132.78	4.6	
817.0	0.79	124.23	817.0	-3.8	4.5	130.12	5.8	
911.0	0.05	191.67	911.0	-4.2	5.0	129.86	6.5	
1,005.0	0.29	244.06	1,005.0	-4.3	4.8	132.11	6.4	
1,099.0	0.55	238.71	1,099.0	-4.7	4.2	138.11	6.3	
1,194.0	0.89	305.78	1,194.0	-4.5	3.2	144.46	5.5	

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Reese Mesa #7H
Project:	SJB (NM West)	TVD Reference:	DFE @ 7017.0ft (AWS 730)
Site:	SEC 10-T32N-R8W	MD Reference:	DFE @ 7017.0ft (AWS 730)
Well:	Reese Mesa #7H	North Reference:	True
Wellbore:	Lateral OH	Survey Calculation Method:	Minimum Curvature
Design:	Lateral OH	Database:	edmCOP

Survey							
Measured Depth (ft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (ft)	East/West (ft)	Closure Azimuth (°)	Closure Distance (ft)
1,289.0	0.89	314.39	1,288.9	-3.5	2.1	149.60	4.1
1,384.0	0.72	304.41	1,383.9	-2.7	1.0	158.63	2.9
1,478.0	0.65	307.25	1,477.9	-2.0	0.1	176.34	2.0
1,576.0	0.87	349.36	1,575.9	-0.9	-0.5	205.84	1.0
1,671.0	0.91	327.60	1,670.9	0.4	-1.0	292.65	1.1
1,766.0	0.70	17.81	1,765.9	1.6	-1.2	322.81	2.0
1,861.0	0.74	9.71	1,860.9	2.8	-0.9	341.28	2.9
1,957.0	0.87	24.65	1,956.9	4.0	-0.5	352.56	4.1
2,051.0	1.36	27.39	2,050.9	5.7	0.3	2.87	5.7
2,146.0	1.94	37.58	2,145.8	7.9	1.8	12.65	8.1
2,241.0	2.05	31.40	2,240.8	10.7	3.6	18.88	11.3
2,335.0	2.24	50.84	2,334.7	13.3	6.0	24.16	14.5
2,398.0	2.02	53.89	2,397.7	14.7	7.8	27.96	16.6
2,461.0	2.88	55.48	2,460.6	16.3	10.0	31.61	19.1
2,492.0	4.05	64.17	2,491.5	17.2	11.6	34.11	20.7
2,524.0	5.06	64.94	2,523.4	18.3	13.9	37.33	23.0
2,555.0	6.64	68.93	2,554.3	19.5	16.8	40.83	25.7
2,586.0	8.13	69.69	2,585.0	20.9	20.6	44.55	29.3
2,618.0	9.93	70.36	2,616.6	22.6	25.3	48.21	33.9
2,650.0	10.53	76.38	2,648.1	24.2	30.7	51.76	39.1
2,681.0	11.28	80.46	2,678.6	25.4	36.5	55.16	44.4
2,713.0	11.72	82.33	2,709.9	26.3	42.8	58.38	50.2
2,744.0	12.41	86.33	2,740.2	27.0	49.2	61.28	56.1
2,776.0	13.97	85.06	2,771.4	27.5	56.5	64.03	62.8
2,807.0	15.48	83.97	2,801.4	28.3	64.3	66.27	70.3
2,839.0	16.77	83.28	2,832.1	29.3	73.2	68.20	78.8
2,870.0	17.32	82.65	2,861.8	30.4	82.2	69.71	87.6
2,902.0	18.27	81.57	2,892.2	31.7	91.9	70.95	97.2
2,934.0	19.63	82.00	2,922.5	33.2	102.2	71.99	107.4
2,965.0	21.44	81.19	2,951.5	34.8	112.9	72.87	118.2
2,996.0	23.79	80.38	2,980.1	36.7	124.7	73.59	130.0
3,028.0	25.36	81.25	3,009.2	38.8	137.8	74.26	143.2
3,059.0	27.46	80.73	3,037.0	41.0	151.4	74.85	156.9
3,091.0	29.11	80.01	3,065.2	43.5	166.4	75.34	172.0
3,122.0	31.23	79.09	3,092.0	46.4	181.7	75.68	187.5
3,154.0	33.37	79.57	3,119.0	49.5	198.5	75.99	204.6
3,185.0	35.59	79.67	3,144.6	52.7	215.8	76.28	222.1
3,217.0	37.96	81.18	3,170.2	55.9	234.7	76.61	241.2
3,248.0	40.43	83.56	3,194.2	58.5	254.1	77.04	260.7
3,280.0	42.74	83.85	3,218.2	60.8	275.2	77.54	281.8
3,311.0	45.30	83.15	3,240.4	63.2	296.6	77.96	303.3
3,343.0	46.66	82.55	3,262.7	66.1	319.4	78.31	326.2
3,374.0	48.22	81.54	3,283.7	69.3	342.0	78.55	349.0
3,406.0	49.84	82.06	3,304.6	72.7	365.9	78.76	373.1

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Reese Mesa #7H
Project:	SJB (NM West)	TVD Reference:	DFE @ 7017.0ft (AWS 730)
Site:	SEC 10-T32N-R8W	MD Reference:	DFE @ 7017.0ft (AWS 730)
Well:	Reese Mesa #7H	North Reference:	True
Wellbore:	Lateral OH	Survey Calculation Method:	Minimum Curvature
Design:	Lateral OH	Database:	edmCOP

Survey							
Measured Depth (ft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (ft)	East/West (ft)	Closure Azimuth (°)	Closure Distance (ft)
3,438.0	52.10	82.60	3,324.8	76.0	390.6	78.99	397.9
3,469.0	53.37	83.89	3,343.6	78.9	415.1	79.23	422.5
3,501.0	55.43	83.07	3,362.2	81.9	440.9	79.48	448.5
3,532.0	57.32	83.23	3,379.3	85.0	466.6	79.68	474.2
3,564.0	58.09	83.36	3,396.4	88.1	493.4	79.88	501.2
3,595.0	58.44	82.93	3,412.7	91.3	519.6	80.04	527.6
3,627.0	59.24	82.36	3,429.3	94.8	546.8	80.17	554.9
3,658.0	59.57	82.78	3,445.1	98.2	573.2	80.28	581.6
3,690.0	59.60	83.40	3,461.3	101.5	600.6	80.40	609.1
3,722.0	60.27	83.71	3,477.3	104.6	628.1	80.54	636.8
3,753.0	61.95	83.87	3,492.3	107.6	655.1	80.67	663.9
3,785.0	63.81	83.72	3,506.9	110.7	683.4	80.80	692.3
3,816.0	66.18	82.70	3,520.0	114.0	711.3	80.90	720.4
3,848.0	68.05	82.11	3,532.4	117.9	740.5	80.96	749.9
3,879.0	69.62	81.78	3,543.6	121.9	769.2	80.99	778.8
3,911.0	70.87	82.14	3,554.4	126.1	799.0	81.03	808.9
3,943.0	72.56	81.89	3,564.5	130.4	829.1	81.06	839.3
3,974.0	74.81	81.78	3,573.2	134.6	858.5	81.09	869.0
4,006.0	76.23	81.75	3,581.2	139.0	889.2	81.11	900.0
4,037.0	77.57	82.57	3,588.2	143.1	919.1	81.15	930.2
4,069.0	78.99	82.67	3,594.7	147.2	950.2	81.20	961.5
4,101.0	80.82	83.11	3,600.3	151.1	981.4	81.25	993.0
4,132.0	83.03	82.78	3,604.7	154.8	1,011.9	81.30	1,023.7
4,164.0	84.55	82.65	3,608.1	158.9	1,043.4	81.34	1,055.5
4,195.0	84.95	83.21	3,611.0	162.7	1,074.1	81.39	1,086.3
4,227.0	84.82	83.19	3,613.8	166.4	1,105.7	81.44	1,118.2
4,258.0	86.23	82.29	3,616.2	170.4	1,136.4	81.47	1,149.1
4,290.0	87.91	81.80	3,617.9	174.8	1,168.0	81.49	1,181.0
4,300.0	88.32	81.93	3,618.2	176.2	1,177.9	81.49	1,191.0
4,374.0	88.69	83.51	3,620.1	185.6	1,251.3	81.56	1,265.0
4,405.0	88.12	84.23	3,621.0	188.9	1,282.1	81.62	1,295.9
4,435.0	87.68	84.06	3,622.1	191.9	1,311.9	81.68	1,325.9
4,466.0	88.75	84.47	3,623.1	195.0	1,342.8	81.74	1,356.9
4,497.0	89.36	85.49	3,623.6	197.7	1,373.6	81.81	1,387.8
4,527.0	87.78	84.88	3,624.3	200.3	1,403.5	81.88	1,417.7
4,558.0	87.81	84.65	3,625.5	203.1	1,434.4	81.94	1,448.7
4,589.0	89.40	84.08	3,626.3	206.1	1,465.2	81.99	1,479.6
4,619.0	89.50	83.71	3,626.6	209.3	1,495.0	82.03	1,509.6
4,650.0	90.30	83.24	3,626.6	212.8	1,525.8	82.06	1,540.6
4,680.0	89.29	81.66	3,626.7	216.8	1,555.6	82.07	1,570.6
4,711.0	89.06	80.25	3,627.2	221.7	1,586.2	82.05	1,601.6
4,742.0	89.36	80.06	3,627.6	227.0	1,616.7	82.01	1,632.6
4,772.0	89.93	79.99	3,627.8	232.1	1,646.3	81.97	1,662.6
4,804.0	88.76	79.49	3,628.1	237.8	1,677.8	81.93	1,694.5

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Reese Mesa #7H
Project:	SJB (NM West)	TVD Reference:	DFE @ 7017.0ft (AWS 730)
Site:	SEC 10-T32N-R8W	MD Reference:	DFE @ 7017.0ft (AWS 730)
Well:	Reese Mesa #7H	North Reference:	True
Wellbore:	Lateral OH	Survey Calculation Method:	Minimum Curvature
Design:	Lateral OH	Database:	edmCOP

Survey							
Measured Depth (ft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (ft)	East/West (ft)	Closure Azimuth (°)	Closure Distance (ft)
4,836.0	88.49	78.67	3,628.9	243.9	1,709.2	81.88	1,726.5
4,867.0	88.28	77.88	3,629.8	250.2	1,739.5	81.81	1,757.4
4,899.0	88.15	79.95	3,630.8	256.4	1,770.9	81.76	1,789.4
4,930.0	88.25	82.26	3,631.8	261.1	1,801.5	81.75	1,820.3
4,962.0	88.49	83.27	3,632.7	265.2	1,833.2	81.77	1,852.3
4,993.0	89.36	84.33	3,633.2	268.5	1,864.1	81.80	1,883.3
5,025.0	90.94	83.29	3,633.2	272.0	1,895.9	81.84	1,915.3
5,057.0	89.83	82.97	3,633.0	275.8	1,927.6	81.86	1,947.3
5,089.0	88.92	80.86	3,633.3	280.3	1,959.3	81.86	1,979.3
5,121.0	89.26	80.83	3,633.8	285.4	1,990.9	81.84	2,011.2
5,150.0	90.50	81.84	3,633.9	289.8	2,019.6	81.84	2,040.2
5,182.0	90.91	83.45	3,633.5	293.9	2,051.3	81.85	2,072.2
5,213.0	90.81	83.11	3,633.0	297.5	2,082.1	81.87	2,103.2
5,244.0	89.83	81.89	3,632.8	301.5	2,112.8	81.88	2,134.2
5,276.0	88.05	79.73	3,633.4	306.6	2,144.4	81.86	2,166.2
5,308.0	88.05	80.00	3,634.5	312.3	2,175.9	81.83	2,198.2
5,339.0	87.88	80.14	3,635.6	317.6	2,206.4	81.81	2,229.1
5,371.0	88.09	80.69	3,636.7	322.9	2,237.9	81.79	2,261.1
5,402.0	89.13	81.31	3,637.5	327.8	2,268.5	81.78	2,292.1
5,434.0	87.45	80.83	3,638.5	332.7	2,300.1	81.77	2,324.1
5,465.0	88.22	81.65	3,639.6	337.5	2,330.8	81.76	2,355.1
5,496.0	89.13	82.84	3,640.3	341.6	2,361.5	81.77	2,386.0
5,528.0	88.69	82.40	3,640.9	345.8	2,393.2	81.78	2,418.0
5,559.0	89.03	82.47	3,641.6	349.8	2,423.9	81.79	2,449.0
5,591.0	88.52	82.24	3,642.2	354.1	2,455.6	81.79	2,481.0
5,623.0	88.39	82.09	3,643.1	358.4	2,487.3	81.80	2,513.0
5,655.0	88.79	82.42	3,643.9	362.8	2,519.0	81.81	2,545.0
5,686.0	88.99	82.46	3,644.5	366.8	2,549.7	81.81	2,576.0
5,718.0	88.45	81.88	3,645.2	371.2	2,581.4	81.82	2,608.0
5,749.0	89.03	82.03	3,645.9	375.5	2,612.1	81.82	2,639.0
5,781.0	89.40	82.09	3,646.3	380.0	2,643.8	81.82	2,671.0
5,812.0	88.99	80.86	3,646.8	384.5	2,674.5	81.82	2,702.0
5,844.0	89.03	80.92	3,647.3	389.6	2,706.0	81.81	2,734.0
5,875.0	88.22	79.84	3,648.1	394.8	2,736.6	81.79	2,764.9
5,907.0	87.45	78.22	3,649.3	400.9	2,768.0	81.76	2,796.9
5,939.0	87.08	77.40	3,650.8	407.6	2,799.2	81.71	2,828.8
5,970.0	87.01	77.01	3,652.4	414.5	2,829.4	81.67	2,859.6
6,002.0	87.72	76.73	3,653.9	421.7	2,860.6	81.61	2,891.5
6,033.0	88.22	77.42	3,655.0	428.7	2,890.8	81.56	2,922.4
6,065.0	88.72	77.84	3,655.8	435.5	2,922.0	81.52	2,954.3
6,097.0	89.40	79.05	3,656.3	441.9	2,953.3	81.49	2,986.2
6,137.0	89.09	78.69	3,656.9	449.7	2,992.6	81.45	3,026.2