

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West 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

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 30-039-30829	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31327	⁵ Property Name SAN JUAN 30 - 5 UNIT	⁶ Well Number 48N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6469'

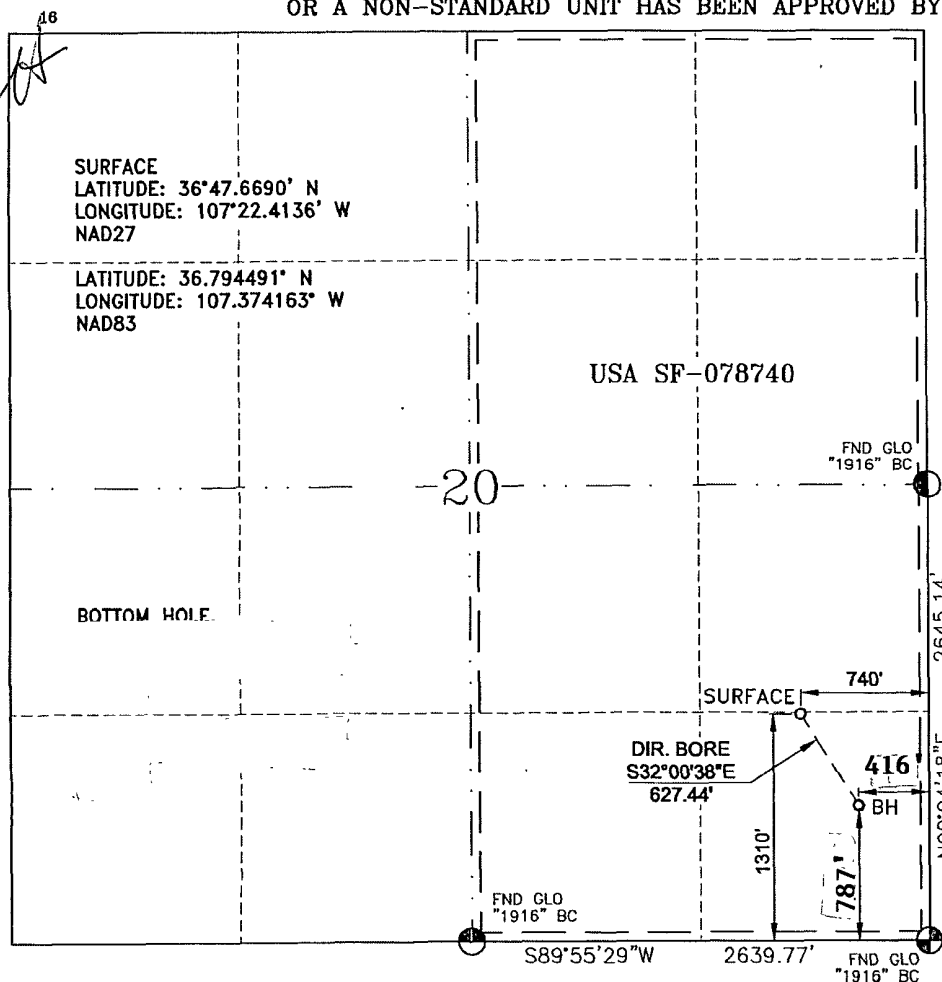
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	20	30-N	5-W		1310	SOUTH	740	EAST	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
P	20	30-N	5-W		787	SOUTH	416	EAST	RIO ARRIBA
¹² Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES E/2			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. RCVD JUL 22 '10 OIL CONS. DIV.		

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

Crystal Tafoya 7/20/10
Signature
Crystal Tafoya 7/20/10
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.

7-29-09
Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number **15703**



COP Deviation Report
SAN JUAN 30-5 UNIT #48N

Operator CONOCOPHILLIPS COMPANY	Legal WellName SAN JUAN 30-5 UNIT #48N	API / UWI 3003930829	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 020-030N-005W-P	N/S Dist (ft) 1,310.00	N/S Ref FSL	E/W Dist (ft) 740.00	E/W Ref FEL

Survey Data				
Date	MD (ftKB)	Incl (°)	Method	Survey Company
5/7/2010	130.00	1.75	Inc-Drop	MO-TE DRILLING INC.
5/7/2010	170.00	1.00	Inc-Drop	MO-TE DRILLING INC.
5/7/2010	238.00	1.00	Inc-Drop	MO-TE DRILLING INC.
5/12/2010	264.00	0.36	IncAzi-MWD	Scientific Drilling
5/12/2010	295.00	0.67	IncAzi-MWD	Scientific Drilling
5/12/2010	326.00	1.40	IncAzi-MWD	Scientific Drilling
5/12/2010	357.00	2.07	IncAzi-MWD	Scientific Drilling
5/12/2010	388.00	3.16	IncAzi-MWD	Scientific Drilling
5/12/2010	418.00	4.14	IncAzi-MWD	Scientific Drilling
5/12/2010	449.00	5.10	IncAzi-MWD	Scientific Drilling
5/12/2010	479.00	5.94	IncAzi-MWD	Scientific Drilling
5/12/2010	510.00	6.52	IncAzi-MWD	Scientific Drilling
5/12/2010	540.00	7.23	IncAzi-MWD	Scientific Drilling
5/12/2010	570.00	8.16	IncAzi-MWD	Scientific Drilling
5/12/2010	601.00	9.25	IncAzi-MWD	Scientific Drilling
5/12/2010	632.00	10.35	IncAzi-MWD	Scientific Drilling
5/12/2010	662.00	11.31	IncAzi-MWD	Scientific Drilling
5/12/2010	692.00	12.05	IncAzi-MWD	Scientific Drilling
5/13/2010	723.00	12.89	IncAzi-MWD	Scientific Drilling
5/13/2010	754.00	13.84	IncAzi-MWD	Scientific Drilling
5/13/2010	802.00	15.26	IncAzi-MWD	Scientific Drilling
5/13/2010	847.00	16.79	IncAzi-MWD	Scientific Drilling
5/13/2010	937.00	19.79	IncAzi-MWD	Scientific Drilling
5/13/2010	1,026.00	22.04	IncAzi-MWD	Scientific Drilling
5/13/2010	1,116.00	24.48	IncAzi-MWD	Scientific Drilling
5/13/2010	1,206.00	25.82	IncAzi-MWD	Scientific Drilling
5/13/2010	1,296.00	26.80	IncAzi-MWD	Scientific Drilling
5/13/2010	1,386.00	25.95	IncAzi-MWD	Scientific Drilling
5/13/2010	1,476.00	25.02	IncAzi-MWD	Scientific Drilling
5/13/2010	1,566.00	25.47	IncAzi-MWD	Scientific Drilling
5/13/2010	1,656.00	24.86	IncAzi-MWD	Scientific Drilling
5/13/2010	1,746.00	22.53	IncAzi-MWD	Scientific Drilling
5/13/2010	1,836.00	19.49	IncAzi-MWD	Scientific Drilling
5/13/2010	1,926.00	17.01	IncAzi-MWD	Scientific Drilling
5/13/2010	2,015.00	15.77	IncAzi-MWD	Scientific Drilling
5/13/2010	2,105.00	14.83	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 _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

COP Deviation Report
SAN JUAN 30-5 UNIT #48N

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
5/13/2010	2,196.00	11 86	IncAzi-MWD	Scientific Drilling
5/13/2010	2,285.00	10 37	IncAzi-MWD	Scientific Drilling
5/13/2010	2,375.00	8.22	IncAzi-MWD	Scientific Drilling
5/13/2010	2,465.00	5.33	IncAzi-MWD	Scientific Drilling
5/13/2010	2,555.00	2 50	IncAzi-MWD	Scientific Drilling
5/13/2010	2,645.00	1.65	IncAzi-MWD	Scientific Drilling
5/14/2010	2,735.00	2 97	IncAzi-MWD	Scientific Drilling
5/14/2010	2,825.00	1 83	IncAzi-MWD	Scientific Drilling
5/14/2010	2,869.00	1.02	IncAzi-MWD	Scientific Drilling
5/14/2010	2,914.00	1.00	IncAzi-MWD	Scientific Drilling
5/14/2010	3,004.00	1.32	IncAzi-MWD	Scientific Drilling
5/14/2010	3,095.00	1.38	IncAzi-MWD	Scientific Drilling
5/14/2010	3,185.00	1 48	IncAzi-MWD	Scientific Drilling
5/14/2010	3,274.00	1.24	IncAzi-MWD	Scientific Drilling
5/14/2010	3,364.00	1.13	IncAzi-MWD	Scientific Drilling
5/14/2010	3,454.00	1.02	IncAzi-MWD	Scientific Drilling
5/14/2010	3,544.00	1.11	IncAzi-MWD	Scientific Drilling
5/14/2010	3,634.00	1 08	IncAzi-MWD	Scientific Drilling
5/14/2010	3,693.00	1.06	IncAzi-MWD	Scientific Drilling
5/27/2010	8,021.00	0 75	Inc-WL	PHOENIX

RCVD JUL 22 '10
OIL CONS. DIV.
DIST. 3

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.

[Signature]

Subscribed and sworn to me this July 21, 2010

[Signature]
Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

RCVD JUL 22 '10
OIL CONS. DIV.
DIST. 3

ConocoPhillips

SJB (NM Central)

SEC 20-T30N-R5W

SJ 30-5 #48N

API # 30-039-30829

Original Hole

Survey: Actual

Standard Survey Report

21 May, 2010

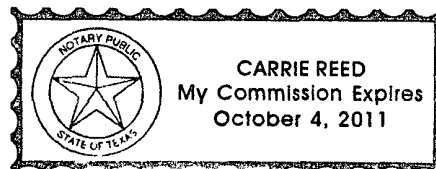
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 24th of May, 2010.

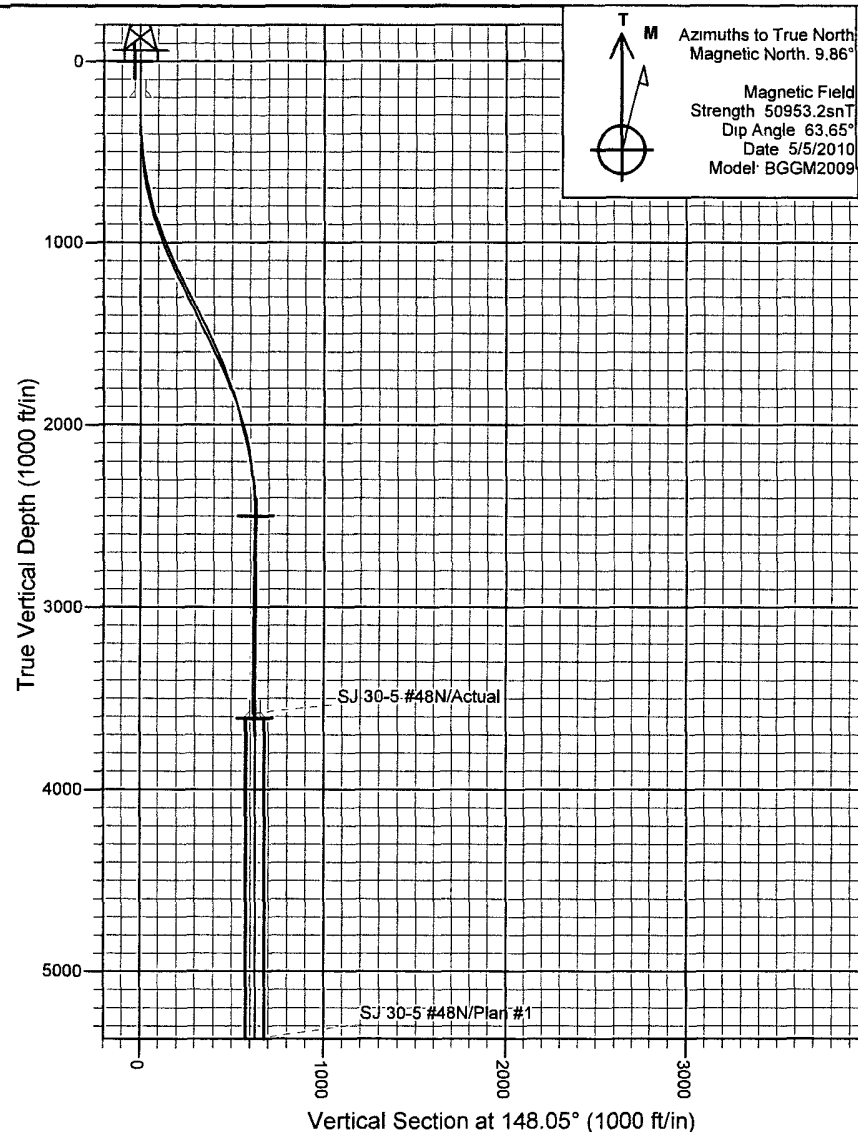
Carrie Reed

Notary Signature
County of Midland
State of Texas





Project: SJB (NM Central)
SEC 20-T30N-R5W
Well: SJ 30-5 #48N
Wellbore: Original Hole
Design: Plan #1
Site:



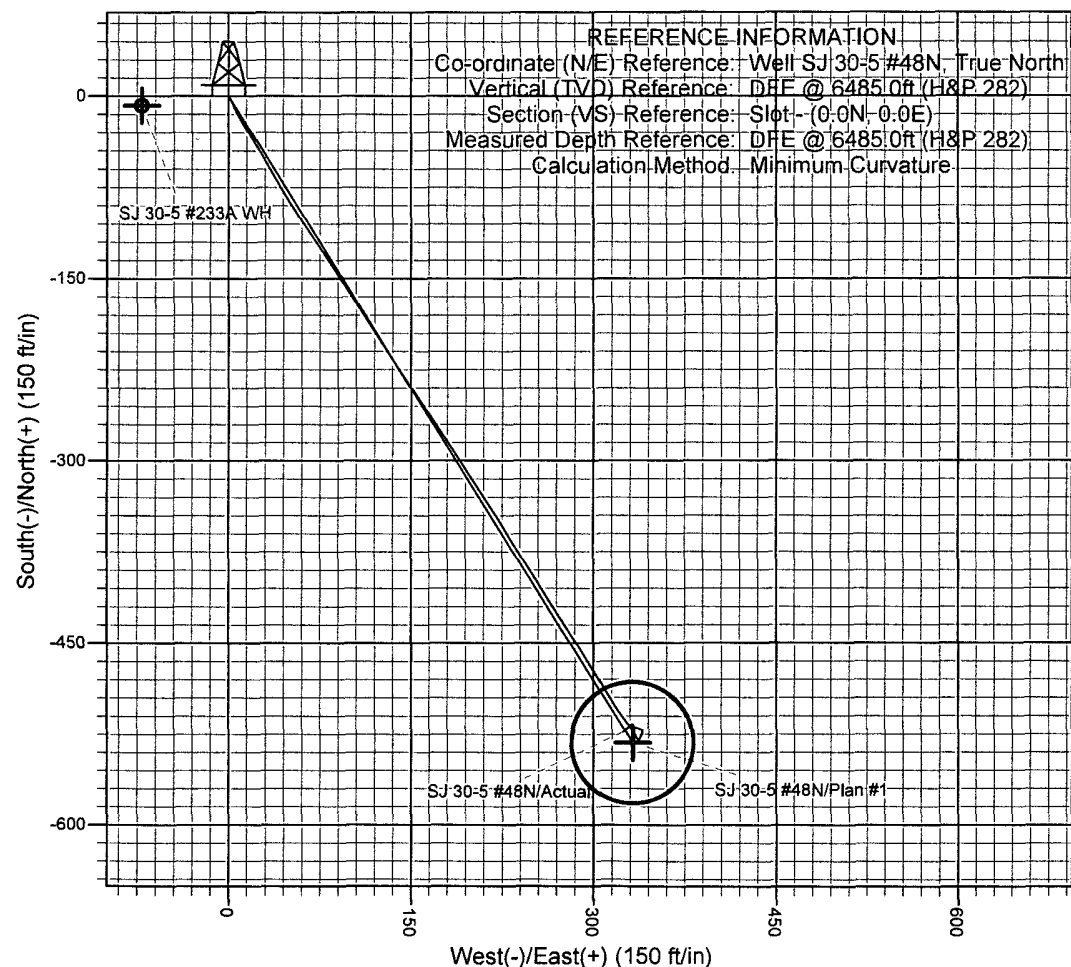
WELL DETAILS: SJ 30-5 #48N

DFE @ 6485.0ft (H&P 282)

Ground Level: 6469.0

Easting 171021.95 Latitude 36° 47' 40.140 N Longitude 107° 22' 24.816 W

Slot



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 20-T30N-R5W
Rio Arriba County NM
Site Centre Latitude: 36° 47' 40.140 N
Longitude: 107° 22' 24.816 W
Positional Uncertainty: 0.0
Convergence: -0.67
Local North: True

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 30-5 #48N
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6485 0ft (H&P 282)
Site:	SEC 20-T30N-R5W	MD Reference:	DFE @ 6485 0ft (H&P 282)
Well:	SJ 30-5 #48N	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 20-T30N-R5W			
Site Position:		Northing:	2,110,347.49 ft	Latitude:	36° 47' 40.140 N
From:	Lat/Long	Easting:	171,021.95 ft	Longitude:	107° 22' 24.816 W
Position Uncertainty:	0 0 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0.67 °

Well	SJ 30-5 #48N, S-Type MV/DK Well					
Well Position	+N/-S	0 0 ft	Northing:	2,110,347.49 ft	Latitude:	36° 47' 40.140 N
	+E/-W	0 0 ft	Easting:	171,021.95 ft	Longitude:	107° 22' 24.816 W
Position Uncertainty		3 5 ft	Wellhead Elevation:	ft	Ground Level:	6,469.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	5/5/2010	9.86	63.65	50,953

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	148 22

Survey Program	Date	5/21/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
264.0	3,693.0	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
264.0	0.36	155.92	264.0	-0.8	0.3	0.8	0.14	0.14	0.00
295.0	0.67	139.15	295.0	-1.0	0.5	1.1	1.10	1.00	-54.10
326.0	1.40	142.49	326.0	-1.4	0.8	1.7	2.36	2.35	10.77
357.0	2.07	149.47	357.0	-2.2	1.4	2.6	2.26	2.16	22.52
388.0	3.16	150.02	387.9	-3.4	2.1	4.0	3.52	3.52	1.77
418.0	4.14	154.71	417.9	-5.1	2.9	5.9	3.41	3.27	15.63
449.0	5.10	154.24	448.8	-7.4	4.0	8.4	3.10	3.10	-1.52
479.0	5.94	154.88	478.6	-10.0	5.3	11.3	2.81	2.80	2.13
510.0	6.52	152.03	509.5	-13.0	6.8	14.6	2.12	1.87	-9.19
540.0	7.23	152.63	539.2	-16.2	8.4	18.2	2.38	2.37	2.00
570.0	8.16	149.94	569.0	-19.7	10.4	22.2	3.32	3.10	-8.97
601.0	9.25	147.96	599.6	-23.7	12.8	26.9	3.65	3.52	-6.39

Scientific Drilling International, Inc.
Survey Report

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well SJ 30-5 #48N
Project:	SJB (NM Central)	TVD Reference:	DFE @ 6485 0ft (H&P 282)
Site:	SEC 20-T30N-R5W	MD Reference:	DFE @ 6485.0ft (H&P 282)
Well:	SJ 30-5 #48N	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)
632.0	10.35	149.27	630.2	-28.2	15.5	32.2	3.62	3.55	4.23
662.0	11.31	150.17	659.6	-33.1	18.4	37.8	3.25	3.20	3.00
692.0	12.05	149.88	689.0	-38.3	21.4	43.9	2.47	2.47	-0.97
723.0	12.89	149.19	719.3	-44.1	24.8	50.6	2.75	2.71	-2.23
754.0	13.84	150.31	749.4	-50.3	28.4	57.7	3.18	3.06	3.61
802.0	15.26	149.87	795.9	-60.7	34.4	69.8	2.97	2.96	-0.92
847.0	16.79	149.28	839.1	-71.5	40.7	82.2	3.42	3.40	-1.31
937.0	19.79	147.69	924.6	-95.5	55.5	110.4	3.38	3.33	-1.77
1,026.0	22.04	145.27	1,007.7	-122.0	73.1	142.2	2.71	2.53	-2.72
1,116.0	24.48	146.88	1,090.4	-151.5	92.9	177.7	2.80	2.71	1.79
1,206.0	25.82	147.08	1,171.9	-183.5	113.7	215.9	1.49	1.49	0.22
1,296.0	26.80	147.32	1,252.5	-217.1	135.3	255.8	1.10	1.09	0.27
1,386.0	25.95	145.96	1,333.2	-250.5	157.3	295.8	1.16	-0.94	-1.51
1,476.0	25.02	146.54	1,414.4	-282.7	178.8	334.5	1.07	-1.03	0.64
1,566.0	25.47	146.29	1,495.8	-314.6	200.1	372.8	0.51	0.50	-0.28
1,656.0	24.86	148.07	1,577.3	-346.8	220.8	411.1	1.08	-0.68	1.98
1,746.0	22.53	148.33	1,659.7	-377.5	239.9	447.3	2.59	-2.59	0.29
1,836.0	19.49	146.96	1,743.7	-404.8	257.1	479.5	3.42	-3.38	-1.52
1,926.0	17.01	147.40	1,829.2	-428.5	272.4	507.7	2.76	-2.76	0.49
2,015.0	15.77	148.84	1,914.5	-449.8	285.7	532.8	1.47	-1.39	1.62
2,105.0	14.83	147.57	2,001.4	-470.0	298.2	556.6	1.11	-1.04	-1.41
2,196.0	11.86	149.60	2,089.9	-487.9	309.2	577.6	3.30	-3.26	2.23
2,285.0	10.37	147.36	2,177.2	-502.5	318.1	594.7	1.74	-1.67	-2.52
2,375.0	8.22	141.78	2,266.0	-514.4	326.5	609.2	2.59	-2.39	-6.20
2,465.0	5.33	152.26	2,355.4	-523.2	332.4	619.8	3.48	-3.21	11.64
2,555.0	2.50	149.72	2,445.2	-528.6	335.3	625.9	3.15	-3.14	-2.82
2,645.0	1.65	44.49	2,535.1	-529.3	337.2	627.6	3.71	-0.94	-116.92
2,735.0	2.97	18.50	2,625.1	-526.2	338.9	625.8	1.84	1.47	-28.88
2,825.0	1.83	1.83	2,715.0	-522.5	339.7	623.1	1.47	-1.27	-18.52
2,869.0	1.02	316.30	2,759.0	-521.6	339.4	622.1	3.03	-1.84	-103.48
2,914.0	1.00	293.35	2,804.0	-521.1	338.8	621.4	0.89	-0.04	-51.00
3,004.0	1.32	286.60	2,893.9	-520.5	337.1	620.0	0.39	0.36	-7.50
3,095.0	1.38	284.26	2,984.9	-519.9	335.0	618.4	0.09	0.07	-2.57
3,185.0	1.48	282.01	3,074.9	-519.4	332.8	616.8	0.13	0.11	-2.50
3,274.0	1.24	278.19	3,163.9	-519.0	330.7	615.4	0.29	-0.27	-4.29
3,364.0	1.13	237.43	3,253.9	-519.4	329.0	614.8	0.92	-0.12	-45.29
3,454.0	1.02	237.67	3,343.8	-520.3	327.6	614.8	0.12	-0.12	0.27
3,544.0	1.11	228.38	3,433.8	-521.3	326.3	615.0	0.22	0.10	-10.32
3,634.0	1.08	236.72	3,523.8	-522.3	324.9	615.1	0.18	-0.03	9.27
3,693.0	1.06	231.85	3,582.8	-523.0	324.0	615.2	0.16	-0.03	-8.25