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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

"AS DRILLED PLAT"

Form C-102
Revised July 10, 2010

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-045-34856	71629	BASIN FRUITLAND COAL

[4] Property Code	[5] Property Name	[6] Well Number
7339	MURPHY D	100 S

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	5995'

[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
L	27	30N	11W	12	1732'	SOUTH	815'	WEST	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
L	27	30N	11W	12	1763'	SOUTH	694'	WEST	SAN JUAN

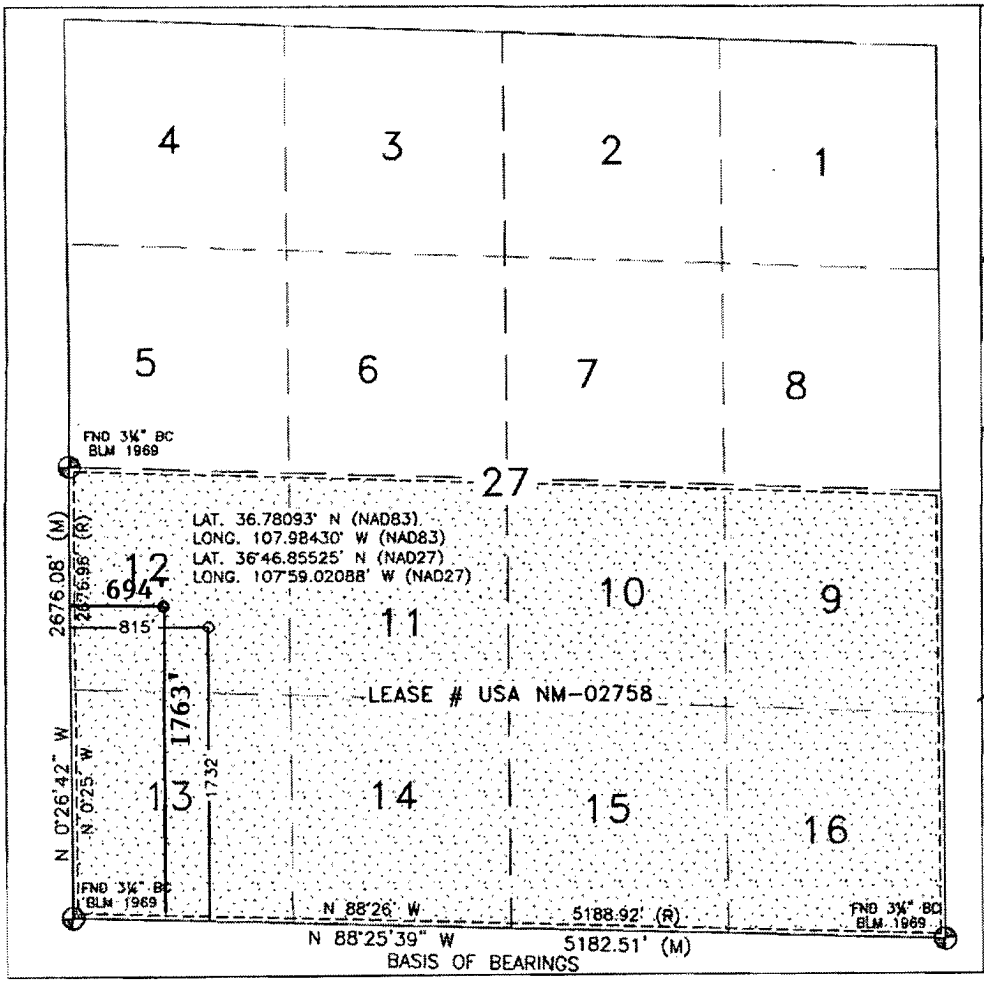
DIST. 3

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
317.76 ACRES - S/2			

OIL CONS. DIV.
RCVD APR 5 '11

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

16



[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 4/4/11
Signature Date

Crystal Tafoya 4/4/2011
Printed Name

Staff Regulatory Tech
E-mail Address

[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 20, 2010
Date of Survey

Signature and Seal of Professional Surveyor:

DAVID RUSSELL
NEW MEXICO
10201
REGISTERED PROFESSIONAL LAND SURVEYOR

DAVID RUSSELL
Certificate Number 10201

2nd Staking

COP Deviation Report ConocoPhillips **API: 3004534856**

Legal WellName : MURPHY D #100S	**API / UWI:** 3004534856
Operator: BURLINGTON RESOURCES OIL & GAS COMPANY LP	**Surf Loc:** 027-030N-011W-L
St/Prov: NEW MEXICO	**N/S Dist (ft):** 1,732.00 - FSL
County: SAN JUAN	**E/W Dist (ft):** 815.00 - FWL

Wellbore Name : Original Hole

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	04/17/2009	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
04/17/2009	75.00	.75	.00	Incl	Mo-Te Drilling Inc.
04/17/2009	135.00	.75	.00	Incl	Mo-Te Drilling Inc.

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
MWD SURVEY	01/20/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
01/20/2011	.00	.00	.00	IncAzi-MWD	Scientific Drilling
01/20/2011	154.00	.43	307.77	IncAzi-MWD	Scientific Drilling
01/21/2011	217.00	.77	282.11	IncAzi-MWD	Scientific Drilling
01/21/2011	278.00	1.61	282.25	IncAzi-MWD	Scientific Drilling
01/21/2011	339.00	2.52	272.50	IncAzi-MWD	Scientific Drilling
01/21/2011	400.00	3.40	271.92	IncAzi-MWD	Scientific Drilling
01/21/2011	462.00	4.00	275.76	IncAzi-MWD	Scientific Drilling
01/21/2011	524.00	4.43	287.77	IncAzi-MWD	Scientific Drilling
01/21/2011	585.00	4.67	292.24	IncAzi-MWD	Scientific Drilling
01/21/2011	647.00	4.72	292.37	IncAzi-MWD	Scientific Drilling
01/21/2011	710.00	4.83	295.02	IncAzi-MWD	Scientific Drilling
01/21/2011	774.00	4.15	289.85	IncAzi-MWD	Scientific Drilling
01/21/2011	838.00	4.11	290.43	IncAzi-MWD	Scientific Drilling
01/21/2011	902.00	4.23	288.13	IncAzi-MWD	Scientific Drilling
01/21/2011	966.00	4.37	286.03	IncAzi-MWD	Scientific Drilling
01/21/2011	1,033.00	4.41	281.48	IncAzi-MWD	Scientific Drilling
01/21/2011	1,096.00	4.03	275.96	IncAzi-MWD	Scientific Drilling
01/21/2011	1,160.00	4.11	273.89	IncAzi-MWD	Scientific Drilling
01/21/2011	1,223.00	3.84	274.48	IncAzi-MWD	Scientific Drilling
01/21/2011	1,287.00	3.62	291.89	IncAzi-MWD	Scientific Drilling
01/21/2011	1,351.00	5.39	298.41	IncAzi-MWD	Scientific Drilling
01/22/2011	1,414.00	5.22	299.20	IncAzi-MWD	Scientific Drilling
01/22/2011	1,476.00	3.95	296.58	IncAzi-MWD	Scientific Drilling
01/22/2011	1,540.00	4.05	287.65	IncAzi-MWD	Scientific Drilling
01/22/2011	1,603.00	4.16	282.05	IncAzi-MWD	Scientific Drilling
01/22/2011	1,667.00	4.20	283.48	IncAzi-MWD	Scientific Drilling
01/22/2011	1,731.00	4.04	281.47	IncAzi-MWD	Scientific Drilling

DIST. 3
OIL CONS. DIV.
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01/22/2011	1,795.00	3.77	279.24	IncAzi-MWD	Scientific Drilling
01/23/2011	1,857.00	3.60	279.60	IncAzi-MWD	Scientific Drilling
01/23/2011	1,921.00	3.65	280.77	IncAzi-MWD	Scientific Drilling
01/23/2011	1,984.00	2.18	294.59	IncAzi-MWD	Scientific Drilling
01/23/2011	2,047.00	1.69	305.24	IncAzi-MWD	Scientific Drilling
01/23/2011	2,111.00	1.65	303.91	IncAzi-MWD	Scientific Drilling
01/23/2011	2,174.00	1.59	296.69	IncAzi-MWD	Scientific Drilling
01/23/2011	2,238.00	1.24	273.18	IncAzi-MWD	Scientific Drilling
01/23/2011	2,301.00	.55	179.32	IncAzi-MWD	Scientific Drilling
01/23/2011	2,365.00	1.72	148.89	IncAzi-MWD	Scientific Drilling
01/23/2011	2,429.00	1.72	151.40	IncAzi-MWD	Scientific Drilling
01/23/2011	2,490.00	1.68	148.66	IncAzi-MWD	Scientific Drilling
01/23/2011	2,550.00	1.64	145.96	IncAzi-MWD	Scientific Drilling

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
FINAL BH SURVEY	01/27/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
01/27/2011	2,455.00	2.00	.00	Inc-WL	Phoenix Services LLC

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.

Todd Dobrenska

Subscribed and sworn to me this 4TH day of April 2011

Dallie L Busse

Notary Public in and for San Juan County, New Mexico

My Commission expires August 6, 2014

ConocoPhillips

d

ConocoPhillips

SJB (NM West)
SEC 27-T30N-R11W
Murphy D #100S
API# 30-045-34856
Original Hole

Survey: Actual

DIST. 3
OIL CONS. DIV.
RCVD APR 5 '11

Standard Survey Report

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

Notarized this date 21st of February, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas

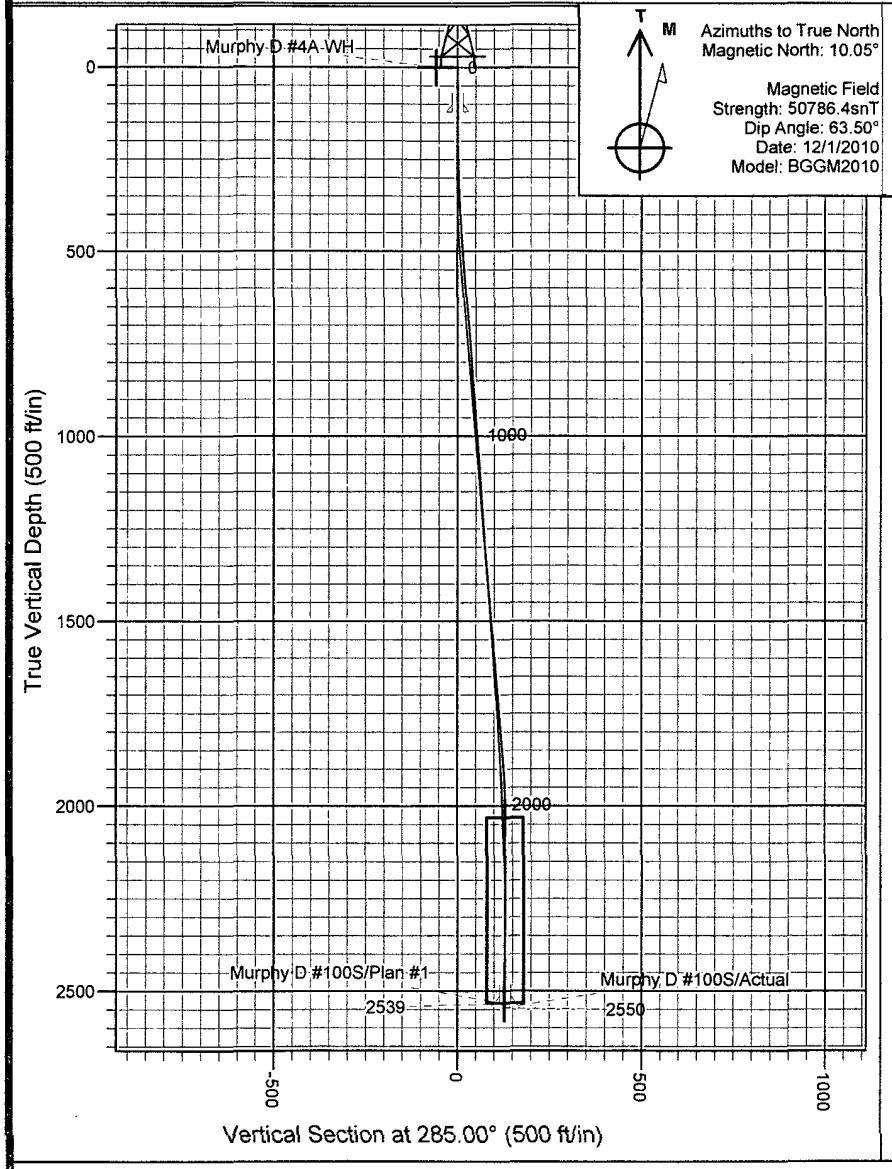
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling
Directional Drilling Operations

Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
Site: SEC 27-T30N-R11W
Well: Murphy D #100S
Wellbore: Original Hole
Design: Plan #1

ConocoPhillips

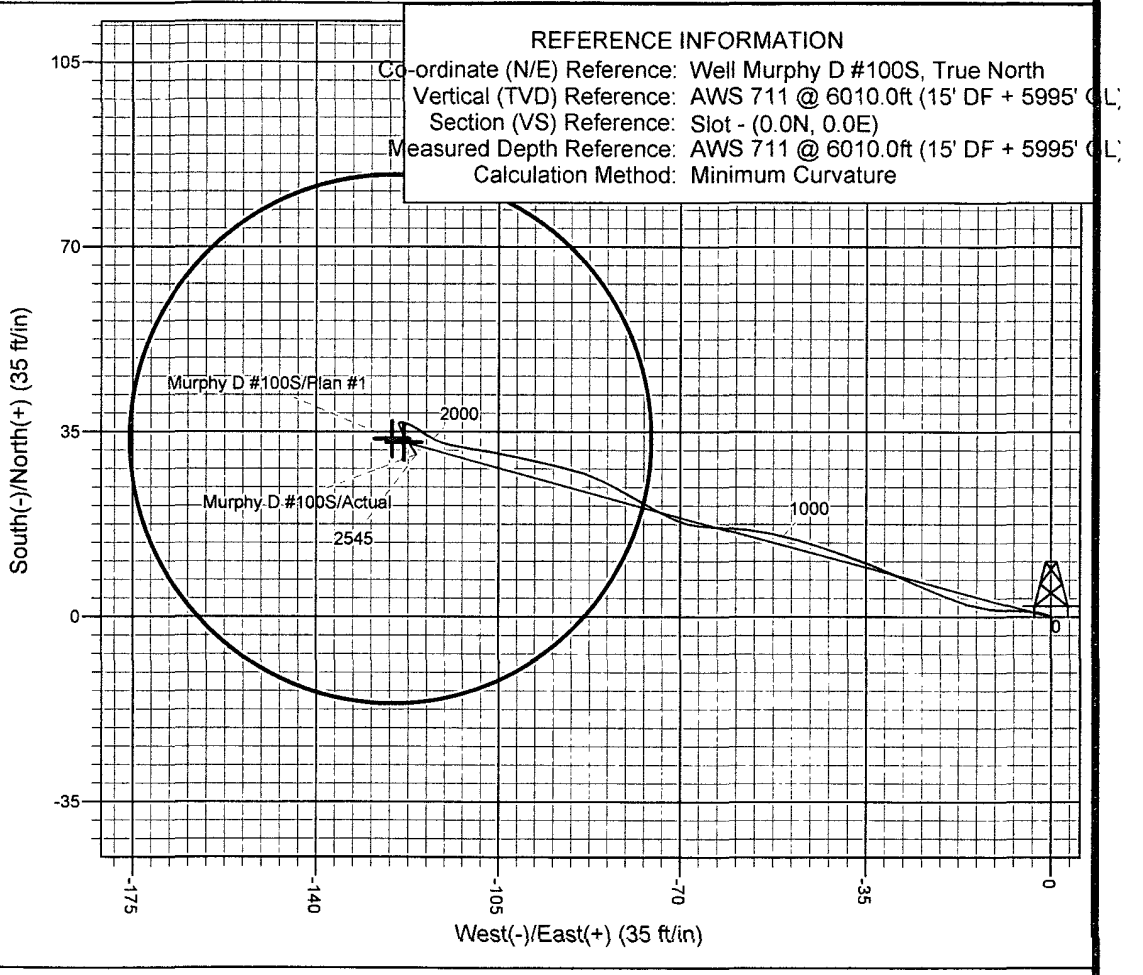


Azimuths to True North
Magnetic North: 10.05°

Magnetic Field
Strength: 50786.4snT
Dip Angle: 63.50°
Date: 12/1/2010
Model: BGGM2010

WELL DETAILS: Murphy D #100S
AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Ground Level: 5995.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	2103547.73	455970.45	36° 46' 51.315 N	107° 59' 1.253 W	



REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well Murphy D #100S, True North
Vertical (TVD) Reference: AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 711 @ 6010.0ft (15' DF + 5995' 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 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 27-T30N-R11W
San Juan County NM
Site Centre Latitude: 36° 46' 51.315 N
Longitude: 107° 59' 1.253 W
Positional Uncertainity: 7.5
Convergence: -0.09
Local North: True

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Murphy D #100S
Project:	SJB (NM West)	**TVD Reference:**	AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Site:	SEC 27-T30N-R11W	**MD Reference:**	AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Well:	Murphy D #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 27-T30N-R11W				
Site Position:		**Northing:**	2,103,547.73 ft	**Latitude:**	36° 46' 51.315 N
From:	Lat/Long	**Easting:**	455,970.45 ft	**Longitude:**	107° 59' 1.253 W
Position Uncertainty:	15.0 ft	**Slot Radius:**	4-3/8"	**Grid Convergence:**	-0.09 °

Well	Murphy D #100S, FC S-type Well					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,103,547.73 ft	**Latitude:**	36° 46' 51.315 N
	+E/-W	0.0 ft	**Easting:**	455,970.45 ft	**Longitude:**	107° 59' 1.253 W
Position Uncertainty		3.5 ft	**Wellhead Elevation:**	ft	**Ground Level:**	5,995.0 ft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	12/1/2010	10.05	63.50	50,786

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	284.23

Survey Program **Date** 2/20/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
154.0	2,550.0	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
154.0	0.43	307.77	154.0	0.4	-0.5	0.5	0.28	0.28	0.00
217.0	0.77	282.11	217.0	0.6	-1.1	1.2	0.68	0.54	-40.73
278.0	1.61	282.25	278.0	0.9	-2.3	2.4	1.38	1.38	0.23
339.0	2.52	272.50	338.9	1.1	-4.5	4.6	1.59	1.49	-15.98
400.0	3.40	271.92	399.9	1.2	-7.6	7.7	1.44	1.44	-0.95
462.0	4.00	275.76	461.7	1.5	-11.6	11.6	1.05	0.97	6.19
524.0	4.43	287.77	523.6	2.4	-16.0	16.1	1.58	0.69	19.37
585.0	4.67	292.24	584.4	4.1	-20.6	21.0	0.70	0.39	7.33
647.0	4.72	292.37	646.2	6.0	-25.3	26.0	0.08	0.08	0.21
710.0	4.83	295.02	708.9	8.1	-30.1	31.2	0.39	0.17	4.21
774.0	4.15	289.85	772.7	10.1	-34.7	36.1	1.24	-1.06	-8.08
838.0	4.11	290.43	836.6	11.6	-39.0	40.7	0.09	-0.06	0.91

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Murphy D #100S
Project:	SJB (NM West)	**TVD Reference:**	AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Site:	SEC 27-T30N-R11W	**MD Reference:**	AWS 711 @ 6010.0ft (15' DF + 5995' GL)
Well:	Murphy D #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)
902.0	4.23	288.13	900.4	13.2	-43.4	45.3	0.32	0.19	-3.59
966.0	4.37	286.03	964.2	14.6	-48.0	50.1	0.33	0.22	-3.28
1,033.0	4.41	281.48	1,031.0	15.8	-53.0	55.2	0.52	0.06	-6.79
1,096.0	4.03	275.96	1,093.9	16.5	-57.6	59.9	0.88	-0.60	-8.76
1,160.0	4.11	273.89	1,157.7	16.9	-62.1	64.3	0.26	0.13	-3.23
1,223.0	3.84	274.48	1,220.6	17.2	-66.4	68.6	0.43	-0.43	0.94
1,287.0	3.62	291.89	1,284.4	18.1	-70.5	72.7	1.80	-0.34	27.20
1,351.0	5.39	298.41	1,348.2	20.3	-75.0	77.7	2.87	2.77	10.19
1,414.0	5.22	299.20	1,410.9	23.1	-80.1	83.3	0.29	-0.27	1.25
1,476.0	3.95	296.58	1,472.7	25.5	-84.4	88.1	2.08	-2.05	-4.23
1,540.0	4.05	287.65	1,536.6	27.1	-88.6	92.5	0.98	0.16	-13.95
1,603.0	4.16	282.05	1,599.4	28.3	-92.9	97.0	0.66	0.17	-8.89
1,667.0	4.20	283.48	1,663.3	29.3	-97.5	101.7	0.17	0.06	2.23
1,731.0	4.04	281.47	1,727.1	30.3	-102.0	106.3	0.34	-0.25	-3.14
1,795.0	3.77	279.24	1,790.9	31.1	-106.2	110.6	0.48	-0.42	-3.48
1,857.0	3.60	279.60	1,852.8	31.8	-110.2	114.6	0.28	-0.27	0.58
1,921.0	3.65	280.77	1,916.7	32.5	-114.2	118.6	0.14	0.08	1.83
1,984.0	2.18	294.59	1,979.6	33.3	-117.2	121.8	2.57	-2.33	21.94
2,047.0	1.69	305.24	2,042.6	34.4	-119.1	123.9	0.96	-0.78	16.90
2,111.0	1.65	303.91	2,106.5	35.4	-120.6	125.6	0.09	-0.06	-2.08
2,174.0	1.59	296.69	2,169.5	36.3	-122.1	127.3	0.34	-0.10	-11.46
2,238.0	1.24	273.18	2,233.5	36.8	-123.6	128.9	1.05	-0.55	-36.73
2,301.0	0.55	179.32	2,296.5	36.5	-124.3	129.5	2.21	-1.10	-148.98
2,365.0	1.72	148.89	2,360.5	35.4	-123.8	128.7	1.99	1.83	-47.55
2,429.0	1.72	151.40	2,424.5	33.7	-122.8	127.4	0.12	0.00	3.92
2,490.0	1.68	148.66	2,485.4	32.1	-121.9	126.1	0.15	-0.07	-4.49
2,550.0	1.64	145.96	2,545.4	30.7	-121.0	124.8	0.15	-0.07	-4.50