Burlington Resources Oil & Gas, LP

ALLISON UNIT COM 149H
AS-DRILLED
SECTION 7, T32N, R6W,
N.M.P.M., SAN JUAN COUNTY,
NEW MEXICO

RCVD JAN 7'11

OIL CONS. DIV.
DIST. 3

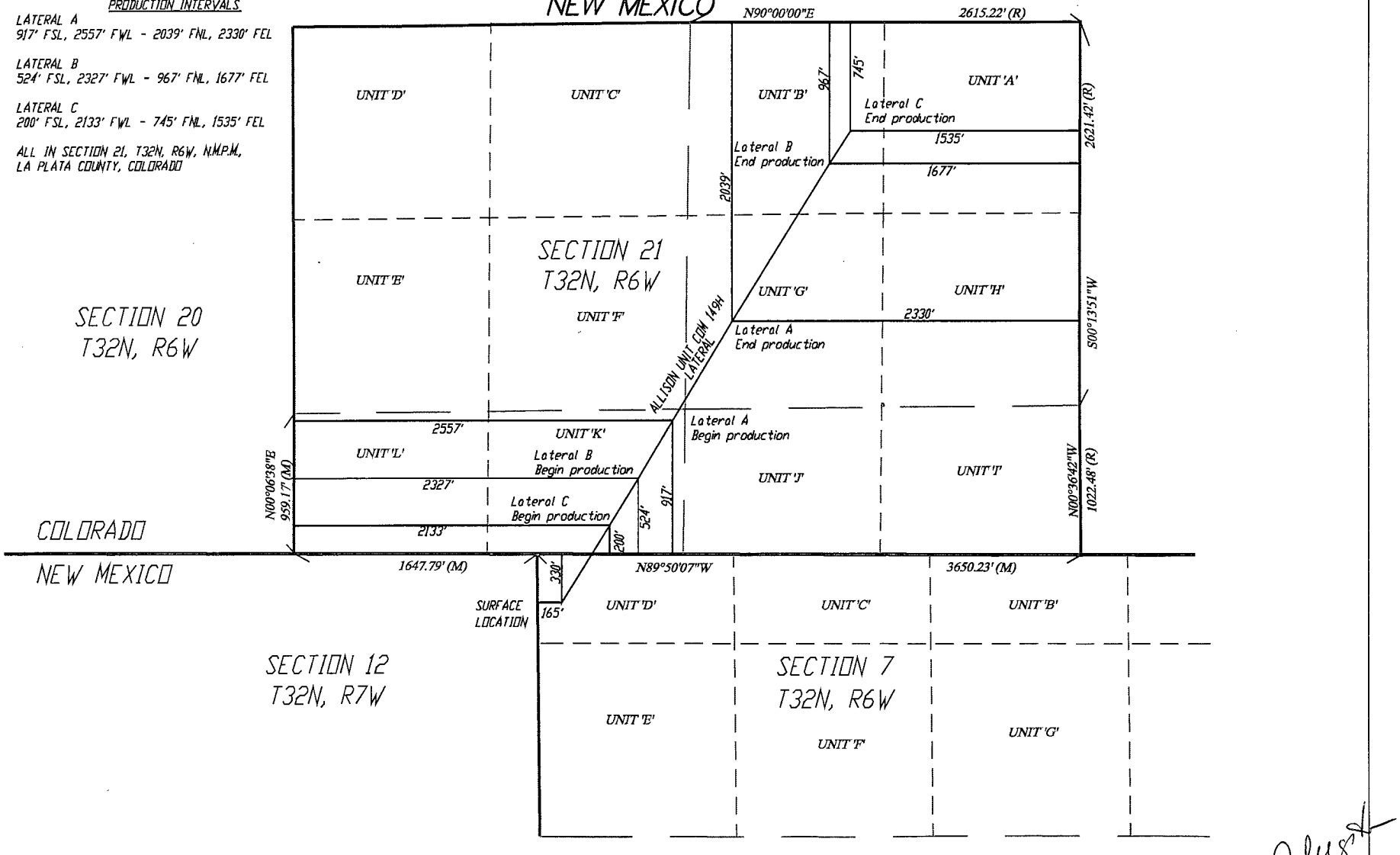
PRODUCTION INTERVALS

LATERAL A
917' FSL, 2557' FWL - 2039' FNL, 2330' FEL

LATERAL B
524' FSL, 2327' FWL - 967' FNL, 1677' FEL

LATERAL C
200' FSL, 2133' FWL - 745' FNL, 1535' FEL

ALL IN SECTION 21, T32N, R6W, N.M.P.M.,
LA PLATA COUNTY, COLORADO



Co API - 05-067-09810

NM 30-045-35044

Patsy Clugston

Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM West)
SEC 07-T32N-R6W
Allison Unit COM 149H

Lateral A

Design: As Drilled

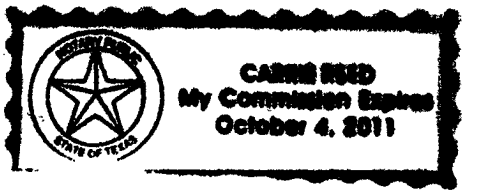
Standard Survey Report

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

R. Morton

Notorized this date 2nd of December, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas



ConocoPhillips

Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
Site: SEC 07-T32N-R6W
Well: Allison Unit COM 149H
Wellbore: Lateral A
Design: As Drilled

ConocoPhillips

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Allison Unit COM 149H, True North
Vertical (TVD) Reference: DFE @ 6277.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 6277.0ft (AWS 730)
Calculation Method: Minimum Curvature

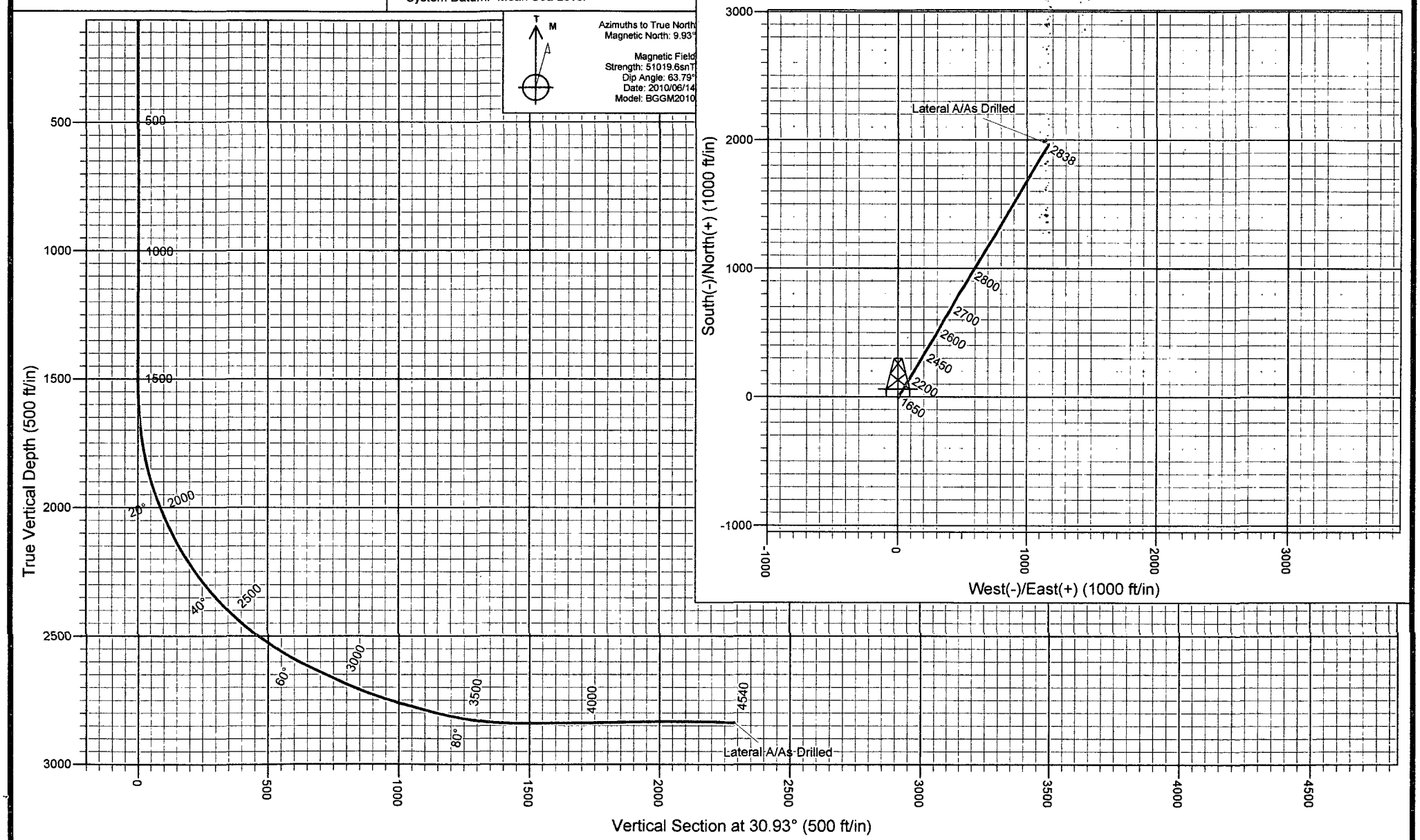
PROJECT DETAILS

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

WELL DETAILS: Allison Unit COM 149H

Ground Level: 6262.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2183131.65	595013.68	36° 59' 57.030 N	107° 30' 28.674 W



Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral A	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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 07-T32N-R6W				
Site Position:		**Northing:**	2,179,789.17 ft	**Latitude:**	36° 59' 23.952 N
From:	Lat/Long	**Easting:**	595,785.91 ft	**Longitude:**	107° 30' 19.296 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.20 °

Well	Allison Unit COM 149H, HZ CMB Well / Dual Lateral					
Well Position	**+N/-S**	0.0 ft	**Northing:**	2,183,131.65 ft	**Latitude:**	36° 59' 57.030 N
	+E/-W	0.0 ft	**Easting:**	595,013.68 ft	**Longitude:**	107° 30' 28.674 W
Position Uncertainty		3.5 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,262.0 ft

Wellbore	Lateral A				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2010	2010/06/14	9.93	63.79	51,020

Design	As Drilled				
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	30.93	

Survey Program **Date** 2010/10/19

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
634.0	4,540.0	SDI MWD (Lateral A)	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
9.5	0.01	109.41	9.5	0.0	0.0	0.0	0.13	0.13	0.00
AUC #149 WH									
634.0	0.82	109.41	634.0	-1.5	4.3	0.9	0.13	0.13	0.00
726.0	0.91	98.36	726.0	-1.8	5.6	1.3	0.21	0.10	-12.01
819.0	0.84	96.77	819.0	-2.0	7.0	1.9	0.08	-0.08	-1.71
915.0	0.48	241.10	915.0	-2.3	7.4	1.8	1.31	-0.38	150.34
1,010.0	0.51	241.66	1,010.0	-2.7	6.7	1.1	0.03	0.03	0.59
1,104.0	0.41	253.20	1,103.9	-3.0	6.0	0.5	0.14	-0.11	12.28
1,199.0	0.24	251.14	1,198.9	-3.1	5.5	0.1	0.18	-0.18	-2.17
1,294.0	0.15	276.16	1,293.9	-3.2	5.1	-0.1	0.13	-0.09	26.34
1,388.0	0.10	279.57	1,387.9	-3.2	4.9	-0.2	0.05	-0.05	3.63
1,483.0	0.07	161.38	1,482.9	-3.2	4.9	-0.3	0.15	-0.03	-124.41

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
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Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral A	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
1,515.0	0.14	75.68	1,514.9	-3.2	4.9	-0.2	0.47	0.22	-267.81
1,547.0	0.81	37.28	1,546.9	-3.0	5.1	0.0	2.21	2.09	-120.00
1,578.0	1.95	32.49	1,577.9	-2.4	5.5	0.8	3.69	3.68	-15.45
1,610.0	3.31	33.05	1,609.9	-1.2	6.3	2.2	4.25	4.25	1.75
1,641.0	4.47	33.33	1,640.8	0.6	7.5	4.3	3.74	3.74	0.90
1,673.0	5.65	30.59	1,672.7	3.0	8.9	7.2	3.76	3.69	-8.56
1,705.0	6.98	27.44	1,704.5	6.1	10.6	10.7	4.29	4.16	-9.84
1,737.0	8.43	26.17	1,736.2	9.9	12.6	14.9	4.56	4.53	-3.97
1,768.0	9.77	26.60	1,766.8	14.3	14.8	19.8	4.33	4.32	1.39
1,800.0	11.32	27.45	1,798.3	19.5	17.4	25.7	4.87	4.84	2.66
1,831.0	12.90	31.58	1,828.6	25.1	20.6	32.2	5.81	5.10	13.32
1,863.0	14.77	32.24	1,859.7	31.6	24.7	39.8	5.86	5.84	2.06
1,895.0	16.32	31.83	1,890.5	38.9	29.2	48.4	4.86	4.84	-1.28
1,926.0	18.13	28.90	1,920.1	46.8	33.9	57.6	6.47	5.84	-9.45
1,958.0	19.57	29.02	1,950.4	55.9	38.9	67.9	4.50	4.50	0.38
1,990.0	20.89	29.10	1,980.4	65.6	44.2	79.0	4.13	4.13	0.25
2,022.0	22.33	29.17	2,010.2	75.8	50.0	90.7	4.50	4.50	0.22
2,053.0	23.85	28.35	2,038.7	86.5	55.8	102.9	5.01	4.90	-2.65
2,085.0	25.32	28.56	2,067.8	98.2	62.2	116.2	4.60	4.59	0.66
2,116.0	26.41	30.32	2,095.7	110.0	68.8	129.7	4.30	3.52	5.68
2,148.0	28.02	30.85	2,124.1	122.6	76.3	144.3	5.09	5.03	1.66
2,179.0	29.87	30.52	2,151.3	135.5	83.9	159.3	5.99	5.97	-1.06
2,210.0	31.12	31.25	2,178.0	149.0	92.0	175.1	4.21	4.03	2.35
2,242.0	32.45	31.16	2,205.2	163.4	100.7	191.9	4.16	4.16	-0.28
2,274.0	34.02	30.76	2,231.9	178.4	109.7	209.5	4.95	4.91	-1.25
2,306.0	35.53	31.40	2,258.2	194.1	119.2	227.7	4.85	4.72	2.00
2,338.0	37.26	30.66	2,284.0	210.3	129.0	246.7	5.58	5.41	-2.31
2,369.0	38.78	31.27	2,308.4	226.7	138.8	265.8	5.05	4.90	1.97
2,401.0	40.29	31.01	2,333.1	244.1	149.3	286.2	4.75	4.72	-0.81
2,432.0	42.08	30.70	2,356.4	261.7	159.8	306.6	5.81	5.77	-1.00
2,464.0	43.59	30.95	2,379.9	280.3	170.9	328.3	4.75	4.72	0.78
2,495.0	45.03	31.23	2,402.0	298.9	182.1	350.0	4.69	4.65	0.90
Blue TGT Line									
2,527.0	46.69	30.62	2,424.3	318.6	193.9	373.0	5.36	5.19	-1.91
2,527.9	46.74	30.62	2,424.9	319.1	194.2	373.6	5.88	5.87	-0.53
Green TGT Line									
2,558.0	48.51	30.46	2,445.2	338.3	205.5	395.8	5.88	5.87	-0.52
2,590.0	49.98	29.97	2,466.1	359.3	217.7	420.1	4.74	4.59	-1.53
2,622.0	51.91	29.39	2,486.3	380.8	230.0	444.9	6.19	6.03	-1.81
2,653.0	53.53	29.48	2,505.1	402.3	242.2	469.6	5.23	5.23	0.29
2,685.0	55.05	29.50	2,523.7	424.9	255.0	495.6	4.75	4.75	0.06
2,716.0	56.44	29.68	2,541.2	447.2	267.6	521.2	4.51	4.48	0.58
2,748.0	57.58	30.64	2,558.6	470.4	281.1	548.0	4.36	3.56	3.00
2,780.0	59.29	30.29	2,575.4	493.9	294.9	575.3	5.42	5.34	-1.09
2,811.0	60.75	30.39	2,590.9	517.1	308.5	602.1	4.72	4.71	0.32
2,843.0	62.51	30.00	2,606.1	541.4	322.6	630.3	5.60	5.50	-1.22
2,874.0	63.78	29.85	2,620.1	565.4	336.4	657.9	4.12	4.10	-0.48
2,906.0	64.66	30.50	2,634.0	590.3	350.9	686.7	3.30	2.75	2.03
2,937.0	64.75	29.76	2,647.2	614.6	365.0	714.8	2.18	0.29	-2.39
2,969.0	64.79	29.83	2,660.9	639.7	379.4	743.7	0.23	0.13	0.22
3,000.0	64.51	30.28	2,674.1	663.9	393.4	771.7	1.59	-0.90	1.45
3,031.0	65.21	29.74	2,687.3	688.2	407.4	799.8	2.75	2.26	-1.74
3,063.0	66.98	29.97	2,700.3	713.6	422.0	829.0	5.57	5.53	0.72
3,095.0	67.99	31.39	2,712.5	739.0	437.1	858.6	5.17	3.16	4.44

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral A	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
3,127.0	69.85	30.95	2,724.0	764.6	452.5	888.4	5.95	5.81	-1.38
3,158.0	70.84	30.73	2,734.5	789.6	467.5	917.6	3.26	3.19	-0.71
3,190.0	72.12	31.25	2,744.6	815.6	483.1	948.0	4.29	4.00	1.63
3,221.0	72.78	32.08	2,754.0	840.8	498.6	977.5	3.32	2.13	2.68
3,253.0	74.18	31.18	2,763.1	866.9	514.7	1,008.2	5.14	4.38	-2.81
3,260.0	74.33	31.19	2,765.0	872.7	518.2	1,014.9	2.13	2.13	0.10
AUC 149H Lat B TGT #1									
3,284.0	74.84	31.21	2,771.4	892.5	530.2	1,038.1	2.13	2.13	0.10
3,316.0	74.32	30.98	2,779.9	918.9	546.1	1,068.9	1.77	-1.63	-0.72
3,347.0	74.27	30.47	2,788.3	944.5	561.4	1,098.8	1.59	-0.16	-1.65
3,379.0	75.26	31.35	2,796.7	971.0	577.2	1,129.6	4.08	3.09	2.75
3,410.0	76.18	30.93	2,804.3	996.7	592.8	1,159.7	3.25	2.97	-1.35
3,442.0	77.95	31.23	2,811.5	1,023.5	608.9	1,190.9	5.61	5.53	0.94
3,473.0	79.70	31.72	2,817.5	1,049.4	624.8	1,221.3	5.85	5.65	1.58
3,505.0	81.06	31.23	2,822.8	1,076.3	641.2	1,252.8	4.51	4.25	-1.53
3,537.0	81.87	31.36	2,827.6	1,103.3	657.7	1,284.5	2.56	2.53	0.41
3,568.0	82.55	30.73	2,831.8	1,129.7	673.5	1,315.2	2.98	2.19	-2.03
3,600.0	83.50	30.52	2,835.7	1,157.0	689.7	1,347.0	3.04	2.97	-0.66
3,631.0	86.84	31.31	2,838.3	1,183.5	705.6	1,377.8	11.07	10.77	2.55
3,663.0	87.92	30.88	2,839.7	1,210.9	722.1	1,409.8	3.63	3.38	-1.34
3,747.0	90.44	31.29	2,840.9	1,282.8	765.4	1,493.8	3.04	3.00	0.49
3,778.0	90.84	30.99	2,840.6	1,309.3	781.5	1,524.8	1.61	1.29	-0.97
3,810.0	91.38	31.18	2,840.0	1,336.7	798.0	1,556.8	1.79	1.69	0.59
3,841.0	90.54	30.47	2,839.5	1,363.3	813.9	1,587.8	3.55	-2.71	-2.29
3,873.0	90.77	29.72	2,839.1	1,391.0	829.9	1,619.8	2.45	0.72	-2.34
3,904.0	90.00	30.30	2,838.9	1,417.9	845.4	1,650.8	3.11	-2.48	1.87
3,936.0	89.80	30.36	2,838.9	1,445.5	861.6	1,682.8	0.65	-0.63	0.19
3,967.0	90.54	30.86	2,838.8	1,472.2	877.4	1,713.8	2.88	2.39	1.61
3,998.0	90.77	30.57	2,838.5	1,498.8	893.2	1,744.8	1.19	0.74	-0.94
4,030.0	91.04	30.34	2,838.0	1,526.4	909.4	1,776.8	1.11	0.84	-0.72
4,060.0	91.24	29.95	2,837.4	1,552.3	924.5	1,806.7	1.46	0.67	-1.30
4,091.0	91.48	29.93	2,836.7	1,579.2	939.9	1,837.7	0.78	0.77	-0.06
4,121.0	91.11	30.50	2,836.0	1,605.1	955.0	1,867.7	2.26	-1.23	1.90
4,152.0	90.98	30.15	2,835.4	1,631.9	970.7	1,898.7	1.20	-0.42	-1.13
4,183.0	91.38	29.79	2,834.8	1,658.7	986.2	1,929.7	1.74	1.29	-1.16
4,213.0	92.35	29.24	2,833.8	1,684.8	1,000.9	1,959.7	3.72	3.23	-1.83
4,243.0	90.71	29.74	2,833.0	1,710.9	1,015.7	1,989.7	5.71	-5.47	1.67
4,255.1	90.19	30.10	2,832.9	1,721.4	1,021.7	2,001.8	5.17	-4.26	2.94
AUC 149H Lat B TGT #2									
4,274.0	89.39	30.65	2,833.0	1,737.7	1,031.3	2,020.7	5.17	-4.26	2.94
4,304.0	89.90	30.34	2,833.2	1,763.5	1,046.5	2,050.6	1.99	1.70	-1.03
4,335.0	90.34	30.32	2,833.1	1,790.3	1,062.2	2,081.6	1.42	1.42	-0.06
4,365.0	89.03	30.52	2,833.3	1,816.2	1,077.3	2,111.6	4.42	-4.37	0.67
4,396.0	89.23	30.73	2,833.7	1,842.8	1,093.1	2,142.6	0.94	0.65	0.68
4,427.0	89.93	30.89	2,833.9	1,869.5	1,109.0	2,173.6	2.32	2.26	0.52
4,457.0	88.99	31.75	2,834.2	1,895.1	1,124.6	2,203.6	4.25	-3.13	2.87
4,488.0	87.34	31.88	2,835.2	1,921.4	1,140.9	2,234.6	5.34	-5.32	0.42
AUC 149H Lat B BHL - AUC #63 WH - AUC 149H Lat B TGT #3									

Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM West)
SEC 07-T32N-R6W
Allison Unit COM 149H

Lateral B

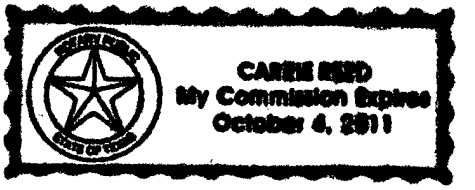
Design: As Drilled

Standard Survey Report

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

Notorized this date 2nd of December, 2010.

Notary Signature
County of Midland
State of Texas



ConocoPhillips

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Directional Drilling Operations

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Site: SEC 07-T32N-R6W
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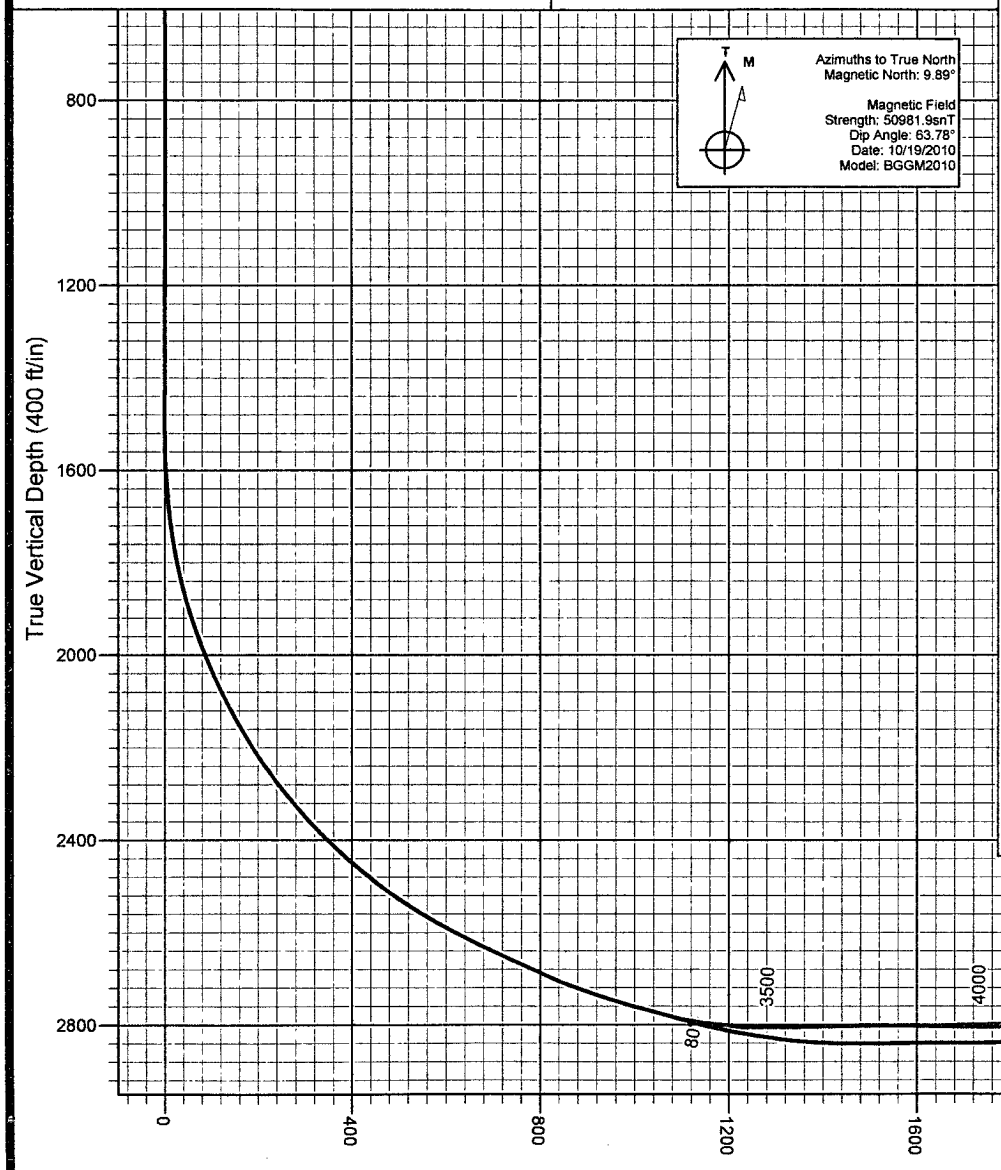
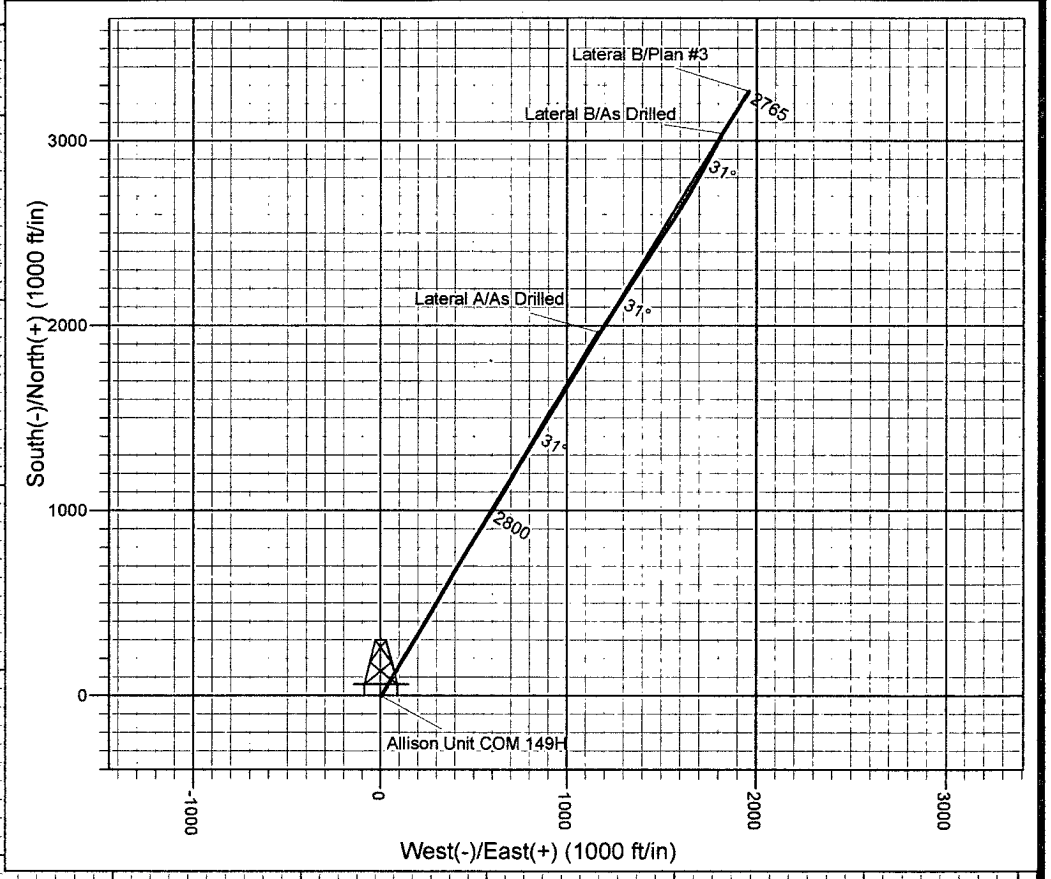
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

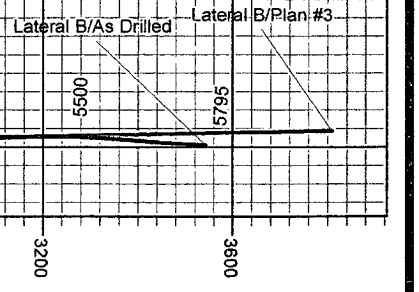
WELL DETAILS: Allison Unit COM 149H

Ground Level: 6262.0

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.0	0.0	2183131.65	595013.68	36° 59' 57.030 N	107° 30' 28.674 W







Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral B	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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 07-T32N-R6W

Site Position:		**Northing:**	2,179,789.17 ft	**Latitude:**	36° 59' 23.952 N
From:	Lat/Long	**Easting:**	595,785.91 ft	**Longitude:**	107° 30' 19.296 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.20 °

Well Allison Unit COM 149H, HZ CMB Well / Dual Lateral

Well Position	**+N/-S**	0.0 ft	**Northing:**	2,183,131.65 ft	**Latitude:**	36° 59' 57.030 N
	+E/-W	0.0 ft	**Easting:**	595,013.68 ft	**Longitude:**	107° 30' 28.674 W
Position Uncertainty		3.5 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,262.0 ft

Wellbore Lateral B

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/19/2010	9.89	63.79	50,982

Design As Drilled

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	3,315.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	30.93

Survey Program **Date** 10/25/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
634.0	3,315.0	SDI MWD (Lateral A)	MWD SDI	MWD - Standard ver 1.0.1
3,396.0	5,795.0	SDI MWD (Lateral B)	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
634.0	0.82	109.41	634.0	-1.5	4.3	0.9	0.13	0.13	0.00
726.0	0.91	98.36	726.0	-1.8	5.6	1.3	0.21	0.10	-12.01
819.0	0.84	96.77	819.0	-2.0	7.0	1.9	0.08	-0.08	-1.71
915.0	0.48	241.10	915.0	-2.3	7.4	1.8	1.31	-0.38	150.34
1,010.0	0.51	241.66	1,010.0	-2.7	6.7	1.1	0.03	0.03	0.59
1,104.0	0.41	253.20	1,103.9	-3.0	6.0	0.5	0.14	-0.11	12.28
1,199.0	0.24	251.14	1,198.9	-3.1	5.5	0.1	0.18	-0.18	-2.17
1,294.0	0.15	276.16	1,293.9	-3.2	5.1	-0.1	0.13	-0.09	26.34
1,388.0	0.10	279.57	1,387.9	-3.2	4.9	-0.2	0.05	-0.05	3.63
1,483.0	0.07	161.38	1,482.9	-3.2	4.9	-0.3	0.15	-0.03	-124.41
1,515.0	0.14	75.68	1,514.9	-3.2	4.9	-0.2	0.47	0.22	-267.81

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral B	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
1,547.0	0.81	37.28	1,546.9	-3.0	5.1	0.0	2.21	2.09	-120.00
1,578.0	1.95	32.49	1,577.9	-2.4	5.5	0.8	3.69	3.68	-15.45
1,610.0	3.31	33.05	1,609.9	-1.2	6.3	2.2	4.25	4.25	1.75
1,641.0	4.47	33.33	1,640.8	0.6	7.5	4.3	3.74	3.74	0.90
1,673.0	5.65	30.59	1,672.7	3.0	8.9	7.2	3.76	3.69	-8.56
1,705.0	6.98	27.44	1,704.5	6.1	10.6	10.7	4.29	4.16	-9.84
1,737.0	8.43	26.17	1,736.2	9.9	12.6	14.9	4.56	4.53	-3.97
1,768.0	9.77	26.60	1,766.8	14.3	14.8	19.8	4.33	4.32	1.39
1,800.0	11.32	27.45	1,798.3	19.5	17.4	25.7	4.87	4.84	2.66
1,831.0	12.90	31.58	1,828.6	25.1	20.6	32.2	5.81	5.10	13.32
1,863.0	14.77	32.24	1,859.7	31.6	24.7	39.8	5.86	5.84	2.06
1,895.0	16.32	31.83	1,890.5	38.9	29.2	48.4	4.86	4.84	-1.28
1,926.0	18.13	28.90	1,920.1	46.8	33.9	57.6	6.47	5.84	-9.45
1,958.0	19.57	29.02	1,950.4	55.9	38.9	67.9	4.50	4.50	0.38
1,990.0	20.89	29.10	1,980.4	65.6	44.2	79.0	4.13	4.13	0.25
2,022.0	22.33	29.17	2,010.2	75.8	50.0	90.7	4.50	4.50	0.22
2,053.0	23.85	28.35	2,038.7	86.5	55.8	102.9	5.01	4.90	-2.65
2,085.0	25.32	28.56	2,067.8	98.2	62.2	116.2	4.60	4.59	0.66
2,116.0	26.41	30.32	2,095.7	110.0	68.8	129.7	4.30	3.52	5.68
2,148.0	28.02	30.85	2,124.1	122.6	76.3	144.3	5.09	5.03	1.66
2,179.0	29.87	30.52	2,151.3	135.5	83.9	159.3	5.99	5.97	-1.06
2,210.0	31.12	31.25	2,178.0	149.0	92.0	175.1	4.21	4.03	2.35
2,242.0	32.45	31.16	2,205.2	163.4	100.7	191.9	4.16	4.16	-0.28
2,274.0	34.02	30.76	2,231.9	178.4	109.7	209.5	4.95	4.91	-1.25
2,306.0	35.53	31.40	2,258.2	194.1	119.2	227.7	4.85	4.72	2.00
2,338.0	37.26	30.66	2,284.0	210.3	129.0	246.7	5.58	5.41	-2.31
2,369.0	38.78	31.27	2,308.4	226.7	138.8	265.8	5.05	4.90	1.97
2,401.0	40.29	31.01	2,333.1	244.1	149.3	286.2	4.75	4.72	-0.81
2,432.0	42.08	30.70	2,356.4	261.7	159.8	306.6	5.81	5.77	-1.00
2,464.0	43.59	30.95	2,379.9	280.3	170.9	328.3	4.75	4.72	0.78
2,495.0	45.03	31.23	2,402.0	298.9	182.1	350.0	4.69	4.65	0.90
2,527.0	46.69	30.62	2,424.3	318.6	193.9	373.0	5.36	5.19	-1.91
2,558.0	48.51	30.46	2,445.2	338.3	205.5	395.8	5.88	5.87	-0.52
2,590.0	49.98	29.97	2,466.1	359.3	217.7	420.1	4.74	4.59	-1.53
2,622.0	51.91	29.39	2,486.3	380.8	230.0	444.9	6.19	6.03	-1.81
2,653.0	53.53	29.48	2,505.1	402.3	242.2	469.6	5.23	5.23	0.29
2,685.0	55.05	29.50	2,523.7	424.9	255.0	495.6	4.75	4.75	0.06
2,716.0	56.44	29.68	2,541.2	447.2	267.6	521.2	4.51	4.48	0.58
2,748.0	57.58	30.64	2,558.6	470.4	281.1	548.0	4.36	3.56	3.00
2,780.0	59.29	30.29	2,575.4	493.9	294.9	575.3	5.42	5.34	-1.09
2,811.0	60.75	30.39	2,590.9	517.1	308.5	602.1	4.72	4.71	0.32
2,843.0	62.51	30.00	2,606.1	541.4	322.6	630.3	5.60	5.50	-1.22
2,874.0	63.78	29.85	2,620.1	565.4	336.4	657.9	4.12	4.10	-0.48
2,906.0	64.66	30.50	2,634.0	590.3	350.9	686.7	3.30	2.75	2.03
2,937.0	64.75	29.76	2,647.2	614.6	365.0	714.8	2.18	0.29	-2.39
2,969.0	64.79	29.83	2,660.9	639.7	379.4	743.7	0.23	0.13	0.22
3,000.0	64.51	30.28	2,674.1	663.9	393.4	771.7	1.59	-0.90	1.45
3,031.0	65.21	29.74	2,687.3	688.2	407.4	799.8	2.75	2.26	-1.74
3,063.0	66.98	29.97	2,700.3	713.6	422.0	829.0	5.57	5.53	0.72
3,095.0	67.99	31.39	2,712.5	739.0	437.1	858.6	5.17	3.16	4.44
3,127.0	69.85	30.95	2,724.0	764.6	452.5	888.4	5.95	5.81	-1.38
3,158.0	70.84	30.73	2,734.5	789.6	467.5	917.6	3.26	3.19	-0.71
3,190.0	72.12	31.25	2,744.6	815.6	483.1	948.0	4.29	4.00	1.63
3,221.0	72.78	32.08	2,754.0	840.8	498.6	977.5	3.32	2.13	2.68

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral B	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
3,253.0	74.18	31.18	2,763.1	866.9	514.7	1,008.2	5.14	4.38	-2.81
3,284.0	74.84	31.21	2,771.4	892.5	530.2	1,038.1	2.13	2.13	0.10
3,315.0	74.34	30.99	2,779.6	918.1	545.6	1,068.0	1.77	-1.63	-0.72
3,396.0	82.59	33.46	2,795.8	985.1	587.9	1,147.2	10.62	10.19	3.05
3,427.0	84.64	34.16	2,799.2	1,010.7	605.1	1,178.0	6.98	6.61	2.26
3,459.0	86.50	32.67	2,801.7	1,037.4	622.6	1,209.9	7.44	5.81	-4.66
3,490.0	88.01	31.32	2,803.2	1,063.6	639.1	1,240.8	6.53	4.87	-4.35
3,521.0	89.83	30.23	2,803.8	1,090.2	654.9	1,271.8	6.84	5.87	-3.52
3,553.0	90.20	29.55	2,803.8	1,118.0	670.9	1,303.8	2.42	1.16	-2.13
3,584.0	90.47	29.62	2,803.6	1,144.9	686.2	1,334.8	0.90	0.87	0.23
3,616.0	90.44	28.88	2,803.3	1,172.9	701.8	1,366.8	2.31	-0.09	-2.31
3,648.0	90.71	28.86	2,803.0	1,200.9	717.2	1,398.8	0.85	0.84	-0.06
3,679.0	90.81	30.47	2,802.6	1,227.8	732.6	1,429.8	5.20	0.32	5.19
3,711.0	90.98	30.82	2,802.1	1,255.3	748.9	1,461.8	1.22	0.53	1.09
3,742.0	89.90	30.67	2,801.9	1,282.0	764.7	1,492.8	3.52	-3.48	-0.48
3,774.0	90.71	30.05	2,801.7	1,309.6	780.9	1,524.7	3.19	2.53	-1.94
3,805.0	89.50	30.82	2,801.6	1,336.3	796.6	1,555.7	4.63	-3.90	2.48
3,837.0	89.09	29.73	2,802.0	1,364.0	812.8	1,587.7	3.64	-1.28	-3.41
3,868.0	88.92	28.94	2,802.6	1,391.0	827.9	1,618.7	2.61	-0.55	-2.55
3,900.0	88.52	28.12	2,803.3	1,419.1	843.2	1,650.7	2.85	-1.25	-2.56
3,931.0	88.75	28.70	2,804.0	1,446.3	858.0	1,681.7	2.01	0.74	1.87
3,963.0	89.83	30.25	2,804.4	1,474.2	873.7	1,713.6	5.90	3.38	4.84
3,994.0	90.27	31.83	2,804.4	1,500.8	889.7	1,744.6	5.29	1.42	5.10
4,026.0	90.47	31.87	2,804.2	1,527.9	906.6	1,776.6	0.64	0.63	0.13
4,056.0	90.64	31.90	2,803.9	1,553.4	922.4	1,806.6	0.58	0.57	0.10
4,087.0	91.48	33.18	2,803.3	1,579.5	939.1	1,837.6	4.94	2.71	4.13
4,118.0	91.95	33.71	2,802.4	1,605.4	956.2	1,868.6	2.28	1.52	1.71
4,148.0	92.72	33.54	2,801.2	1,630.4	972.8	1,898.5	2.63	2.57	-0.57
4,178.0	91.68	33.07	2,800.0	1,655.4	989.2	1,928.5	3.80	-3.47	-1.57
4,209.0	90.50	31.59	2,799.4	1,681.6	1,005.8	1,959.4	6.11	-3.81	-4.77
4,239.0	90.64	31.54	2,799.1	1,707.2	1,021.5	1,989.4	0.50	0.47	-0.17
4,270.0	90.98	31.48	2,798.7	1,733.6	1,037.7	2,020.4	1.11	1.10	-0.19
4,301.0	90.81	31.36	2,798.2	1,760.0	1,053.9	2,051.4	0.67	-0.55	-0.39
4,331.0	91.28	30.44	2,797.7	1,785.8	1,069.3	2,081.4	3.44	1.57	-3.07
4,362.0	91.78	29.99	2,796.8	1,812.5	1,084.9	2,112.4	2.17	1.61	-1.45
4,393.0	92.02	31.17	2,795.8	1,839.2	1,100.6	2,143.4	3.88	0.77	3.81
4,423.0	90.54	31.50	2,795.1	1,864.8	1,116.2	2,173.4	5.05	-4.93	1.10
4,454.0	90.34	31.57	2,794.9	1,891.3	1,132.4	2,204.4	0.68	-0.65	0.23
4,484.0	88.42	31.03	2,795.2	1,916.9	1,148.0	2,234.4	6.65	-6.40	-1.80
4,515.0	88.45	30.50	2,796.1	1,943.5	1,163.9	2,265.4	1.71	0.10	-1.71
4,545.0	88.92	31.42	2,796.7	1,969.2	1,179.3	2,295.4	3.44	1.57	3.07
4,576.0	89.83	32.21	2,797.1	1,995.6	1,195.6	2,326.3	3.89	2.94	2.55
4,606.0	90.10	32.60	2,797.1	2,020.9	1,211.7	2,356.3	1.58	0.90	1.30
4,637.0	90.30	32.20	2,797.0	2,047.1	1,228.3	2,387.3	1.44	0.65	-1.29
4,668.0	90.67	31.96	2,796.7	2,073.3	1,244.8	2,418.3	1.42	1.19	-0.77
4,698.0	91.08	31.39	2,796.3	2,098.9	1,260.5	2,448.3	2.34	1.37	-1.90
4,729.0	91.28	32.32	2,795.6	2,125.2	1,276.9	2,479.3	3.07	0.65	3.00
4,759.0	89.46	32.17	2,795.4	2,150.6	1,292.9	2,509.3	6.09	-6.07	-0.50
4,790.0	89.36	31.59	2,795.8	2,176.9	1,309.3	2,540.3	1.90	-0.32	-1.87
4,820.0	89.76	32.26	2,796.0	2,202.4	1,325.1	2,570.3	2.60	1.33	2.23
4,851.0	89.93	32.55	2,796.1	2,228.5	1,341.8	2,601.3	1.08	0.55	0.94
4,881.0	90.74	32.53	2,795.9	2,253.8	1,357.9	2,631.3	2.70	2.70	-0.07
4,912.0	90.98	33.18	2,795.4	2,279.9	1,374.7	2,662.2	2.23	0.77	2.10
4,943.0	90.64	32.83	2,795.0	2,305.8	1,391.6	2,693.2	1.57	-1.10	-1.13

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Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral B	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

Survey

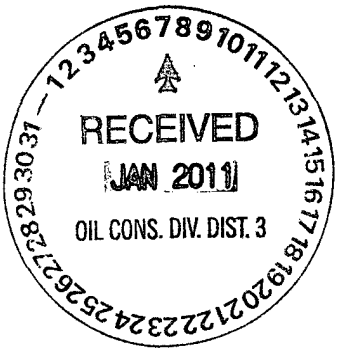
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,973.0	91.65	31.97	2,794.4	2,331.2	1,407.7	2,723.2	4.42	3.37	-2.87
5,004.0	92.05	32.97	2,793.4	2,357.3	1,424.3	2,754.2	3.47	1.29	3.23
5,034.0	92.62	32.56	2,792.2	2,382.5	1,440.5	2,784.1	2.34	1.90	-1.37
5,065.0	90.94	32.01	2,791.2	2,408.7	1,457.1	2,815.1	5.70	-5.42	-1.77
5,096.0	91.08	32.62	2,790.7	2,434.9	1,473.6	2,846.1	2.02	0.45	1.97
5,126.0	91.28	33.06	2,790.0	2,460.1	1,489.9	2,876.1	1.61	0.67	1.47
5,157.0	92.82	32.71	2,788.9	2,486.1	1,506.7	2,907.0	5.09	4.97	-1.13
5,187.0	93.33	32.68	2,787.3	2,511.3	1,522.9	2,937.0	1.70	1.70	-0.10
5,218.0	93.43	33.35	2,785.5	2,537.3	1,539.8	2,967.9	2.18	0.32	2.16
5,248.0	92.49	32.84	2,784.0	2,562.4	1,556.1	2,997.8	3.56	-3.13	-1.70
5,279.0	91.99	32.56	2,782.7	2,588.4	1,572.9	3,028.8	1.85	-1.61	-0.90
5,310.0	91.45	31.19	2,781.8	2,614.8	1,589.2	3,059.8	4.75	-1.74	-4.42
5,340.0	92.12	30.88	2,780.9	2,640.5	1,604.7	3,089.8	2.46	2.23	-1.03
5,371.0	92.73	30.51	2,779.6	2,667.1	1,620.5	3,120.7	2.30	1.97	-1.19
5,401.0	91.62	30.23	2,778.4	2,693.0	1,635.6	3,150.7	3.82	-3.70	-0.93
5,431.0	90.50	29.88	2,777.9	2,718.9	1,650.7	3,180.7	3.91	-3.73	-1.17
5,462.0	90.57	29.54	2,777.6	2,745.8	1,666.0	3,211.7	1.12	0.23	-1.10
5,493.0	89.29	28.45	2,777.6	2,772.9	1,681.1	3,242.7	5.42	-4.13	-3.52
5,523.0	87.85	28.68	2,778.4	2,799.3	1,695.4	3,272.6	4.86	-4.80	0.77
5,553.0	88.25	28.04	2,779.4	2,825.7	1,709.6	3,302.6	2.51	1.33	-2.13
5,585.0	85.49	28.06	2,781.1	2,853.9	1,724.7	3,334.5	8.63	-8.63	0.06
5,616.0	85.25	25.83	2,783.6	2,881.4	1,738.7	3,365.3	7.21	-0.77	-7.19
5,648.0	85.46	26.91	2,786.2	2,910.0	1,752.8	3,397.1	3.43	0.66	3.38
5,679.0	85.52	27.69	2,788.7	2,937.4	1,767.0	3,428.0	2.52	0.19	2.52
5,711.0	86.33	27.28	2,790.9	2,965.8	1,781.7	3,459.8	2.84	2.53	-1.28
5,743.0	86.43	27.85	2,793.0	2,994.1	1,796.5	3,491.7	1.80	0.31	1.78

Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM West)
SEC 07-T32N-R6W
Allison Unit COM 149H

Lateral C



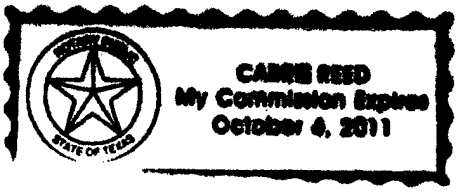
Design: As Drilled

Standard Survey Report

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

Notorized this date 2nd of December, 2010.

Notary Signature
County of Midland
State of Texas



ConocoPhillips

Scientific Drilling
Directional Drilling Operations

Project: SJB (NM West)
Site: SEC 07-T32N-R6W
Well: Allison Unit COM 149H
Wellbore: Lateral C
Design: As Drilled

ConocoPhillips

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Allison Unit COM 149H, True North
Vertical (TVD) Reference: DFE @ 6277.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: DFE @ 6277.0ft (AWS 730)
Calculation Method: Minimum Curvature

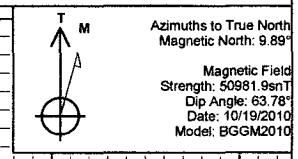
PROJECT DETAILS

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

WELL DETAILS: Allison Unit COM 149H

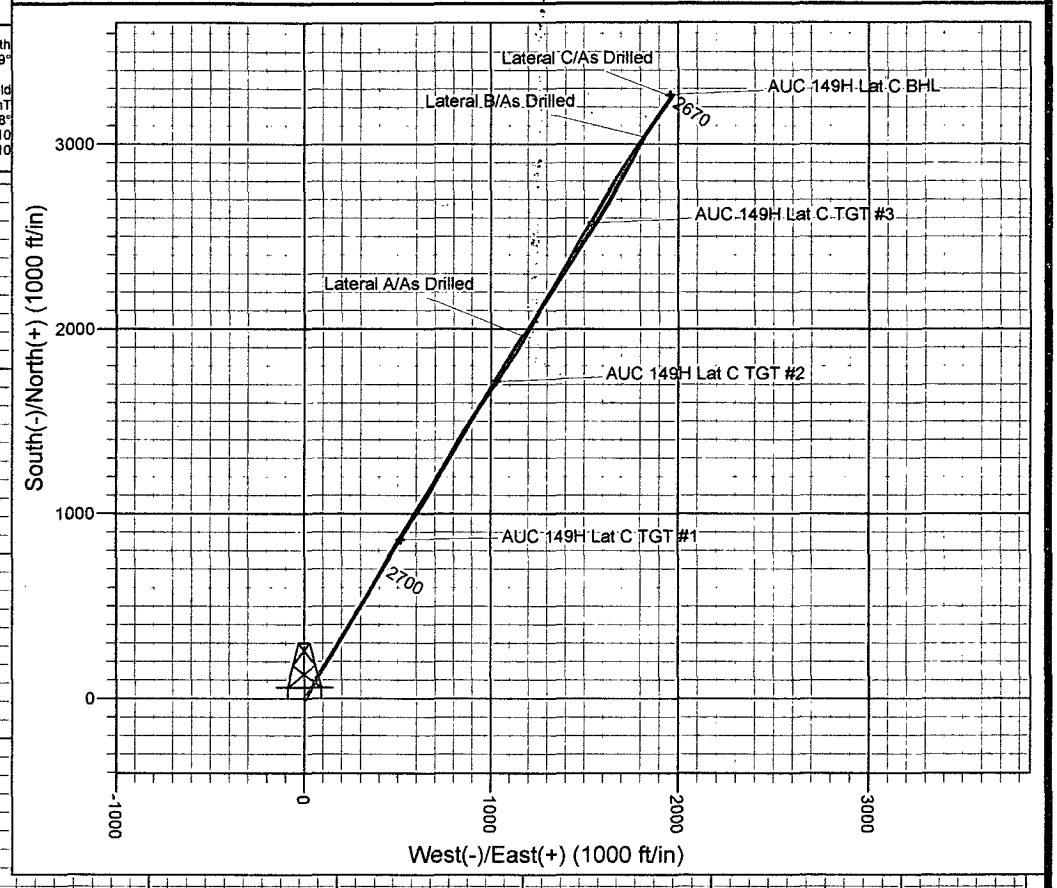
Ground Level: 6262.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2183131.65	595013.68	36° 59' 57.030 N	107° 30' 28.674 W



Azimuths to True North
Magnetic North: 9.89°

Magnetic Field
Strength: 50981.9snT
Dip Angle: 63.78°
Date: 10/19/2010
Model: BGGM2010



Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral C	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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 07-T32N-R6W

Site Position:		**Northing:**	2,179,789.17 ft	**Latitude:**	36° 59' 23.952 N
From:	Lat/Long	**Easting:**	595,785.91 ft	**Longitude:**	107° 30' 19.296 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.20 °

Well Allison Unit COM 149H, HZ CMB Well / Dual Lateral

Well Position	**+N/-S**	0.0 ft	**Northing:**	2,183,131.65 ft	**Latitude:**	36° 59' 57.030 N
	+E/-W	0.0 ft	**Easting:**	595,013.68 ft	**Longitude:**	107° 30' 28.674 W
Position Uncertainty		3.5 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,262.0 ft

Wellbore Lateral C

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/19/2010	9.89	63.79	50,982

Design As Drilled

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	2,991.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	30.93

Survey Program **Date** 11/1/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
634.0	2,991.0	SDI MWD (Lateral A)	MWD SDI	MWD - Standard ver 1.0.1
3,082.0	6,048.0	SDI MWD (Lateral C)	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
634.0	0.82	109.41	634.0	-1.5	4.3	0.9	0.13	0.13	0.00
726.0	0.91	98.36	726.0	-1.8	5.6	1.3	0.21	0.10	-12.01
819.0	0.84	96.77	819.0	-2.0	7.0	1.9	0.08	-0.08	-1.71
915.0	0.48	241.10	915.0	-2.3	7.4	1.8	1.31	-0.38	150.34
1,010.0	0.51	241.66	1,010.0	-2.7	6.7	1.1	0.03	0.03	0.59
1,104.0	0.41	253.20	1,103.9	-3.0	6.0	0.5	0.14	-0.11	12.28
1,199.0	0.24	251.14	1,198.9	-3.1	5.5	0.1	0.18	-0.18	-2.17
1,294.0	0.15	276.16	1,293.9	-3.2	5.1	-0.1	0.13	-0.09	26.34
1,388.0	0.10	279.57	1,387.9	-3.2	4.9	-0.2	0.05	-0.05	3.63
1,483.0	0.07	161.38	1,482.9	-3.2	4.9	-0.3	0.15	-0.03	-124.41
1,515.0	0.14	75.68	1,514.9	-3.2	4.9	-0.2	0.47	0.22	-267.81

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral C	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
1,547.0	0.81	37.28	1,546.9	-3.0	5.1	0.0	2.21	2.09	-120.00
1,578.0	1.95	32.49	1,577.9	-2.4	5.5	0.8	3.69	3.68	-15.45
1,610.0	3.31	33.05	1,609.9	-1.2	6.3	2.2	4.25	4.25	1.75
1,641.0	4.47	33.33	1,640.8	0.6	7.5	4.3	3.74	3.74	0.90
1,673.0	5.65	30.59	1,672.7	3.0	8.9	7.2	3.76	3.69	-8.56
1,705.0	6.98	27.44	1,704.5	6.1	10.6	10.7	4.29	4.16	-9.84
1,737.0	8.43	26.17	1,736.2	9.9	12.6	14.9	4.56	4.53	-3.97
1,768.0	9.77	26.60	1,766.8	14.3	14.8	19.8	4.33	4.32	1.39
1,800.0	11.32	27.45	1,798.3	19.5	17.4	25.7	4.87	4.84	2.66
1,831.0	12.90	31.58	1,828.6	25.1	20.6	32.2	5.81	5.10	13.32
1,863.0	14.77	32.24	1,859.7	31.6	24.7	39.8	5.86	5.84	2.06
1,895.0	16.32	31.83	1,890.5	38.9	29.2	48.4	4.86	4.84	-1.28
1,926.0	18.13	28.90	1,920.1	46.8	33.9	57.6	6.47	5.84	-9.45
1,958.0	19.57	29.02	1,950.4	55.9	38.9	67.9	4.50	4.50	0.38
1,990.0	20.89	29.10	1,980.4	65.6	44.2	79.0	4.13	4.13	0.25
2,022.0	22.33	29.17	2,010.2	75.8	50.0	90.7	4.50	4.50	0.22
2,053.0	23.85	28.35	2,038.7	86.5	55.8	102.9	5.01	4.90	-2.65
2,085.0	25.32	28.56	2,067.8	98.2	62.2	116.2	4.60	4.59	0.66
2,116.0	26.41	30.32	2,095.7	110.0	68.8	129.7	4.30	3.52	5.68
2,148.0	28.02	30.85	2,124.1	122.6	76.3	144.3	5.09	5.03	1.66
2,179.0	29.87	30.52	2,151.3	135.5	83.9	159.3	5.99	5.97	-1.06
2,210.0	31.12	31.25	2,178.0	149.0	92.0	175.1	4.21	4.03	2.35
2,242.0	32.45	31.16	2,205.2	163.4	100.7	191.9	4.16	4.16	-0.28
2,274.0	34.02	30.76	2,231.9	178.4	109.7	209.5	4.95	4.91	-1.25
2,306.0	35.53	31.40	2,258.2	194.1	119.2	227.7	4.85	4.72	2.00
2,338.0	37.26	30.66	2,284.0	210.3	129.0	246.7	5.58	5.41	-2.31
2,369.0	38.78	31.27	2,308.4	226.7	138.8	265.8	5.05	4.90	1.97
2,401.0	40.29	31.01	2,333.1	244.1	149.3	286.2	4.75	4.72	-0.81
2,432.0	42.08	30.70	2,356.4	261.7	159.8	306.6	5.81	5.77	-1.00
2,464.0	43.59	30.95	2,379.9	280.3	170.9	328.3	4.75	4.72	0.78
2,495.0	45.03	31.23	2,402.0	298.9	182.1	350.0	4.69	4.65	0.90
2,527.0	46.69	30.62	2,424.3	318.6	193.9	373.0	5.36	5.19	-1.91
2,558.0	48.51	30.46	2,445.2	338.3	205.5	395.8	5.88	5.87	-0.52
2,590.0	49.98	29.97	2,466.1	359.3	217.7	420.1	4.74	4.59	-1.53
2,622.0	51.91	29.39	2,486.3	380.8	230.0	444.9	6.19	6.03	-1.81
2,653.0	53.53	29.48	2,505.1	402.3	242.2	469.6	5.23	5.23	0.29
2,685.0	55.05	29.50	2,523.7	424.9	255.0	495.6	4.75	4.75	0.06
2,716.0	56.44	29.68	2,541.2	447.2	267.6	521.2	4.51	4.48	0.58
2,748.0	57.58	30.64	2,558.6	470.4	281.1	548.0	4.36	3.56	3.00
2,780.0	59.29	30.29	2,575.4	493.9	294.9	575.3	5.42	5.34	-1.09
2,811.0	60.75	30.39	2,590.9	517.1	308.5	602.1	4.72	4.71	0.32
2,843.0	62.51	30.00	2,606.1	541.4	322.6	630.3	5.60	5.50	-1.22
2,874.0	63.78	29.85	2,620.1	565.4	336.4	657.9	4.12	4.10	-0.48
2,906.0	64.66	30.50	2,634.0	590.3	350.9	686.7	3.30	2.75	2.03
2,937.0	64.75	29.76	2,647.2	614.6	365.0	714.8	2.18	0.29	-2.39
2,969.0	64.79	29.83	2,660.9	639.7	379.4	743.7	0.23	0.13	0.22
2,991.0	64.59	30.15	2,670.3	656.9	389.3	763.6	1.59	-0.90	1.45
3,082.0	71.48	30.28	2,704.3	729.8	431.8	847.9	7.57	7.57	0.14
3,113.0	73.68	31.09	2,713.6	755.2	446.9	877.5	7.52	7.10	2.61
3,145.0	75.52	31.42	2,722.1	781.6	462.9	908.4	5.84	5.75	1.03
3,176.0	77.67	30.85	2,729.3	807.4	478.5	938.5	7.16	6.94	-1.84
3,208.0	79.44	30.52	2,735.6	834.4	494.5	969.9	5.62	5.53	-1.03
3,240.0	81.82	28.44	2,740.8	861.9	510.0	1,001.4	9.82	7.44	-6.50
3,241.4	81.95	28.53	2,741.0	863.1	510.7	1,002.8	11.12	9.12	6.43

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral C	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
AUC 149H Lat C TGT #1									
3,271.0	84.65	30.42	2,744.5	888.7	525.1	1,032.2	11.12	9.13	6.39
3,303.0	86.80	31.33	2,746.8	916.1	541.5	1,064.1	7.29	6.72	2.84
3,334.0	89.43	32.14	2,747.9	942.4	557.8	1,095.1	8.88	8.48	2.61
3,366.0	90.50	31.54	2,747.9	969.6	574.7	1,127.1	3.83	3.34	-1.88
3,398.0	90.41	30.39	2,747.6	997.0	591.1	1,159.1	3.60	-0.28	-3.59
3,430.0	90.91	30.03	2,747.3	1,024.7	607.2	1,191.1	1.93	1.56	-1.13
3,461.0	91.32	31.64	2,746.7	1,051.3	623.1	1,222.1	5.36	1.32	5.19
3,493.0	91.49	30.75	2,745.9	1,078.6	639.7	1,254.1	2.83	0.53	-2.78
3,525.0	91.81	32.45	2,745.0	1,105.9	656.4	1,286.0	5.40	1.00	5.31
3,556.0	92.24	31.82	2,743.9	1,132.1	672.9	1,317.0	2.46	1.39	-2.03
3,588.0	90.71	30.52	2,743.0	1,159.5	689.5	1,349.0	6.27	-4.78	-4.06
3,619.0	90.80	29.84	2,742.6	1,186.3	705.1	1,380.0	2.21	0.29	-2.19
3,650.0	90.64	30.85	2,742.2	1,213.0	720.7	1,411.0	3.30	-0.52	3.26
3,682.0	90.84	31.06	2,741.8	1,240.5	737.2	1,443.0	0.91	0.63	0.66
3,713.0	91.35	29.58	2,741.2	1,267.2	752.8	1,474.0	5.05	1.65	-4.77
3,744.0	91.69	29.72	2,740.4	1,294.2	768.2	1,505.0	1.19	1.10	0.45
3,776.0	90.68	30.04	2,739.7	1,321.9	784.1	1,536.9	3.31	-3.16	1.00
3,807.0	90.88	28.97	2,739.3	1,348.9	799.4	1,567.9	3.51	0.65	-3.45
3,839.0	91.09	29.60	2,738.8	1,376.8	815.0	1,599.9	2.07	0.66	1.97
3,870.0	91.56	31.12	2,738.1	1,403.5	830.7	1,630.9	5.13	1.52	4.90
3,902.0	90.67	29.37	2,737.4	1,431.2	846.8	1,662.9	6.13	-2.78	-5.47
3,933.0	90.97	30.62	2,737.0	1,458.0	862.3	1,693.9	4.15	0.97	4.03
3,965.0	92.16	32.75	2,736.1	1,485.2	879.1	1,725.9	7.62	3.72	6.66
3,996.0	92.85	32.51	2,734.8	1,511.3	895.8	1,756.8	2.36	2.23	-0.77
4,028.0	92.95	32.01	2,733.1	1,538.3	912.8	1,788.8	1.59	0.31	-1.56
4,059.0	93.07	34.14	2,731.5	1,564.3	929.7	1,819.7	6.87	0.39	6.87
4,089.0	93.54	32.97	2,729.8	1,589.2	946.3	1,849.6	4.20	1.57	-3.90
4,120.0	93.65	33.68	2,727.8	1,615.1	963.3	1,880.5	2.31	0.35	2.29
4,150.0	94.34	33.03	2,725.8	1,640.1	979.7	1,910.4	3.16	2.30	-2.17
4,181.0	94.79	33.66	2,723.3	1,665.9	996.7	1,941.3	2.49	1.45	2.03
4,211.0	94.88	33.91	2,720.8	1,690.7	1,013.4	1,971.2	0.88	0.30	0.83
4,241.9	95.21	32.67	2,718.0	1,716.5	1,030.2	2,001.9	4.16	1.06	-4.03
AUC 149H Lat C TGT #2									
4,242.0	95.21	32.66	2,718.0	1,716.6	1,030.3	2,002.0	4.16	1.06	-4.03
4,272.0	95.23	34.25	2,715.3	1,741.5	1,046.8	2,031.9	5.28	0.07	5.30
4,303.0	95.43	34.38	2,712.4	1,767.0	1,064.2	2,062.7	0.77	0.65	0.42
4,334.0	94.51	34.00	2,709.7	1,792.5	1,081.5	2,093.5	3.21	-2.97	-1.23
4,364.0	94.14	32.14	2,707.5	1,817.6	1,097.8	2,123.4	6.30	-1.23	-6.20
4,395.0	92.56	31.49	2,705.7	1,843.9	1,114.2	2,154.3	5.51	-5.10	-2.10
4,426.0	92.56	30.83	2,704.3	1,870.4	1,130.2	2,185.3	2.13	0.00	-2.13
4,456.0	91.00	30.33	2,703.3	1,896.2	1,145.4	2,215.3	5.46	-5.20	-1.67
4,487.0	90.71	28.89	2,702.9	1,923.2	1,160.8	2,246.3	4.74	-0.94	-4.65
4,517.0	90.87	29.28	2,702.5	1,949.4	1,175.3	2,276.3	1.41	0.53	1.30
4,548.0	91.21	29.79	2,701.9	1,976.3	1,190.6	2,307.3	1.98	1.10	1.65
4,579.0	91.14	29.51	2,701.3	2,003.3	1,205.9	2,338.2	0.93	-0.23	-0.90
4,609.0	91.41	29.40	2,700.6	2,029.4	1,220.7	2,368.2	0.97	0.90	-0.37
4,640.0	91.41	29.75	2,699.8	2,056.3	1,236.0	2,399.2	1.13	0.00	1.13
4,670.0	91.72	29.81	2,699.0	2,082.4	1,250.9	2,429.2	1.05	1.03	0.20
4,701.0	91.82	29.81	2,698.1	2,109.3	1,266.3	2,460.2	0.32	0.32	0.00
4,732.0	92.19	30.36	2,697.0	2,136.1	1,281.8	2,491.1	2.14	1.19	1.77
4,762.0	91.27	30.84	2,696.1	2,161.9	1,297.1	2,521.1	3.46	-3.07	1.60
4,793.0	91.35	30.27	2,695.4	2,188.6	1,312.8	2,552.1	1.86	0.26	-1.84
4,823.0	91.54	31.09	2,694.6	2,214.3	1,328.1	2,582.1	2.80	0.63	2.73

Company:	ConocoPhillips	**Local Co-ordinate Reference:**	Well Allison Unit COM 149H
Project:	SJB (NM West)	**TVD Reference:**	DFE @ 6277.0ft (AWS 730)
Site:	SEC 07-T32N-R6W	**MD Reference:**	DFE @ 6277.0ft (AWS 730)
Well:	Allison Unit COM 149H	**North Reference:**	True
Wellbore:	Lateral C	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM 2003.21 Single User Db

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)
4,854.0	91.58	30.48	2,693.8	2,241.0	1,344.0	2,613.1	1.97	0.13	-1.97
4,884.0	91.71	31.45	2,692.9	2,266.7	1,359.4	2,643.1	3.26	0.43	3.23
4,915.0	91.98	31.35	2,691.9	2,293.1	1,375.6	2,674.1	0.93	0.87	-0.32
4,945.0	90.74	30.23	2,691.2	2,318.9	1,390.9	2,704.1	5.57	-4.13	-3.73
4,976.0	89.53	28.80	2,691.1	2,345.9	1,406.2	2,735.0	6.04	-3.90	-4.61
5,007.0	89.50	26.97	2,691.4	2,373.3	1,420.7	2,766.0	5.90	-0.10	-5.90
5,037.0	89.83	29.16	2,691.6	2,399.7	1,434.8	2,796.0	7.38	1.10	7.30
5,068.0	89.93	27.87	2,691.6	2,427.0	1,449.6	2,826.9	4.17	0.32	-4.16
5,099.0	88.86	29.90	2,691.9	2,454.1	1,464.6	2,857.9	7.40	-3.45	6.55
5,129.0	89.02	29.56	2,692.5	2,480.2	1,479.5	2,887.9	1.25	0.53	-1.13
5,160.0	89.26	29.92	2,693.0	2,507.1	1,494.8	2,918.9	1.40	0.77	1.16
5,190.0	89.23	31.03	2,693.4	2,532.9	1,510.0	2,948.9	3.70	-0.10	3.70
5,221.0	89.83	30.40	2,693.6	2,559.6	1,525.9	2,979.9	2.81	1.94	-2.03
5,243.3	90.36	30.06	2,693.6	2,578.8	1,537.1	3,002.2	2.83	2.39	-1.52
AUC 149H Lat C TGT #3									
5,252.0	90.57	29.93	2,693.5	2,586.4	1,541.5	3,010.9	2.83	2.39	-1.52
5,282.0	90.50	30.28	2,693.2	2,612.3	1,556.5	3,040.9	1.19	-0.23	1.17
5,313.0	90.87	28.77	2,692.9	2,639.3	1,571.8	3,071.9	5.01	1.19	-4.87
5,343.0	90.94	30.47	2,692.4	2,665.4	1,586.6	3,101.9	5.67	0.23	5.67
5,374.0	91.81	29.89	2,691.6	2,692.2	1,602.2	3,132.8	3.37	2.81	-1.87
5,404.0	91.75	31.80	2,690.7	2,717.9	1,617.6	3,162.8	6.37	-0.20	6.37
5,435.0	91.83	31.66	2,689.7	2,744.3	1,633.8	3,193.8	0.52	0.26	-0.45
5,465.0	91.89	31.58	2,688.8	2,769.8	1,649.6	3,223.8	0.33	0.20	-0.27
5,496.0	91.74	31.72	2,687.8	2,796.2	1,665.8	3,254.8	0.66	-0.48	0.45
5,526.0	91.89	31.45	2,686.8	2,821.7	1,681.5	3,284.8	1.03	0.50	-0.90
5,556.0	91.94	33.30	2,685.8	2,847.0	1,697.6	3,314.7	6.17	0.17	6.17
5,588.0	92.29	32.60	2,684.7	2,873.9	1,715.0	3,346.7	2.44	1.09	-2.19
5,619.0	92.61	31.58	2,683.3	2,900.1	1,731.4	3,377.6	3.45	1.03	-3.29
5,651.0	92.93	31.88	2,681.8	2,927.3	1,748.2	3,409.6	1.37	1.00	0.94
5,682.0	91.21	33.08	2,680.7	2,953.4	1,764.9	3,440.6	6.76	-5.55	3.87
5,714.0	91.55	32.53	2,679.9	2,980.3	1,782.2	3,472.5	2.02	1.06	-1.72
5,746.0	91.86	32.52	2,678.9	3,007.3	1,799.4	3,504.5	0.97	0.97	-0.03
5,777.0	92.39	33.63	2,677.8	3,033.2	1,816.3	3,535.5	3.97	1.71	3.58
5,809.0	90.87	33.72	2,676.9	3,059.9	1,834.1	3,567.4	4.76	-4.75	0.28
5,841.0	90.84	33.15	2,676.4	3,086.6	1,851.7	3,599.4	1.78	-0.09	-1.78
5,872.0	91.07	33.73	2,675.9	3,112.4	1,868.8	3,630.4	2.01	0.74	1.87
5,904.0	91.58	32.94	2,675.1	3,139.2	1,886.3	3,662.3	2.94	1.59	-2.47
5,935.0	91.76	34.40	2,674.2	3,164.9	1,903.5	3,693.3	4.74	0.58	4.71
5,967.0	91.99	33.91	2,673.2	3,191.4	1,921.5	3,725.2	1.69	0.72	-1.53
5,998.0	92.19	34.03	2,672.1	3,217.1	1,938.8	3,756.1	0.75	0.65	0.39
AUC 149H Lat C BHL									