

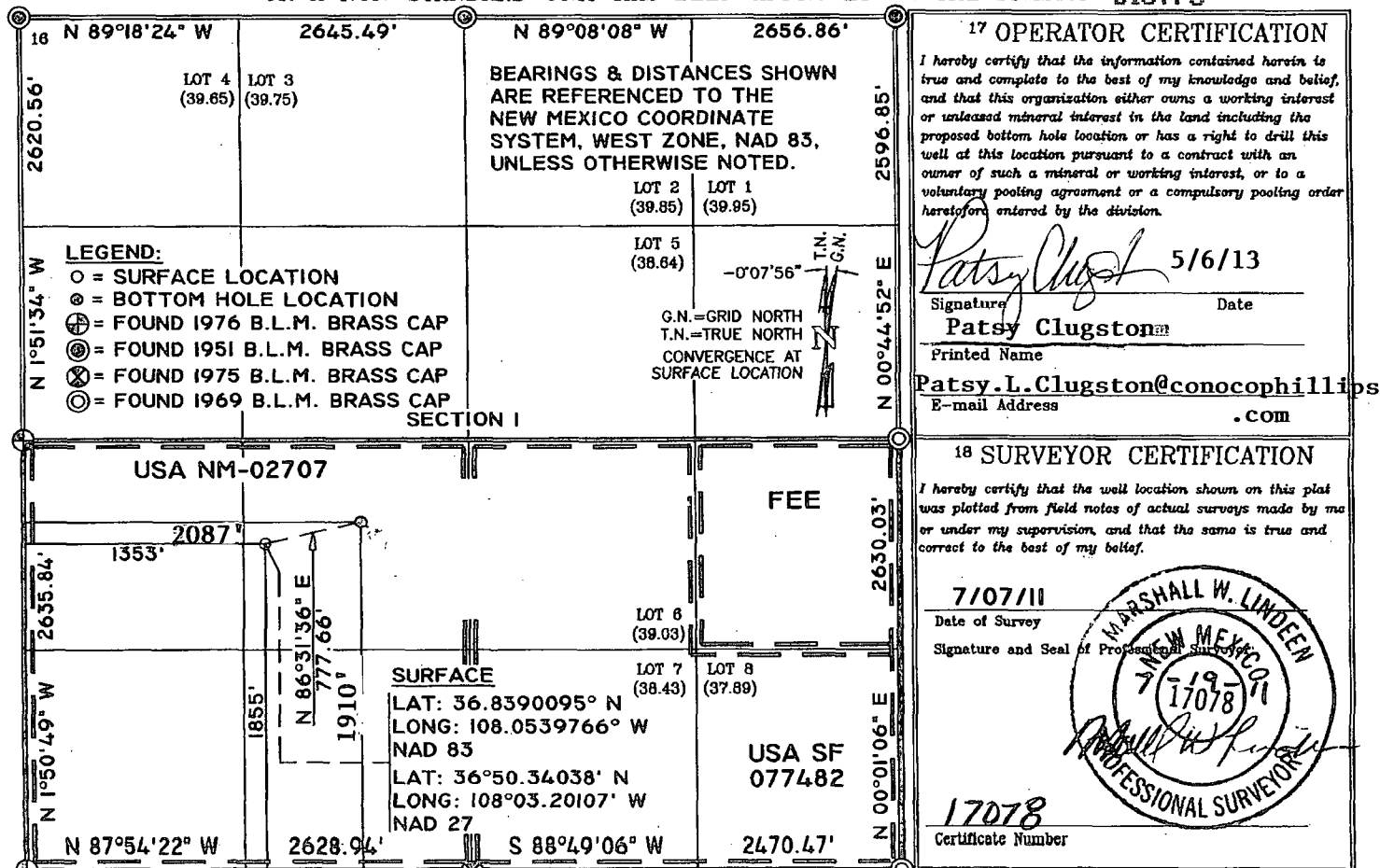
Form C-102
Revised July 16, 2010
Submit one copy to appropriate
District Office

AS DRILLED PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹⁰ Surface Location¹¹ Bottom Hole Location If Different From Surface

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



ConocoPhillips**COP Deviation Report****TOMMY BOLACK #1P**RCVD MAY 14 '13
OIL CONS. DIV.
DIST. 3

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName TOMMY BOLACK #1P	API / UWI 3004535436	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 001-030N-012W-K	N/S Dist (ft) 1,855.00	N/S Ref FSL	E/W Dist (ft) 1,353.00	E/W Ref FWL

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
3/4/2013	133.00	0.50		Inc-Drop	Mo Te Drilling Inc
3/4/2013	232.00	0.75		Inc-Drop	Mo Te Drilling Inc
3/9/2013	270.00	0.67	250.21	IncAzi-MWD	Scientific Drilling
3/9/2013	331.00	0.15	157.09	IncAzi-MWD	Scientific Drilling
3/9/2013	392.00	1.59	106.14	IncAzi-MWD	Scientific Drilling
3/9/2013	454.00	2.80	103.90	IncAzi-MWD	Scientific Drilling
3/9/2013	516.00	4.05	100.55	IncAzi-MWD	Scientific Drilling
3/9/2013	578.00	5.29	96.19	IncAzi-MWD	Scientific Drilling
3/9/2013	639.00	6.55	91.83	IncAzi-MWD	Scientific Drilling
3/9/2013	701.00	7.74	90.52	IncAzi-MWD	Scientific Drilling
3/9/2013	763.00	9.22	88.85	IncAzi-MWD	Scientific Drilling
3/9/2013	823.00	10.75	86.98	IncAzi-MWD	Scientific Drilling
3/9/2013	886.00	12.06	86.14	IncAzi-MWD	Scientific Drilling
3/9/2013	948.00	13.54	85.95	IncAzi-MWD	Scientific Drilling
3/9/2013	1,011.00	15.12	83.13	IncAzi-MWD	Scientific Drilling
3/9/2013	1,074.00	16.76	81.90	IncAzi-MWD	Scientific Drilling
3/9/2013	1,137.00	18.04	81.76	IncAzi-MWD	Scientific Drilling
3/9/2013	1,200.00	19.44	82.49	IncAzi-MWD	Scientific Drilling
3/9/2013	1,262.00	21.36	82.81	IncAzi-MWD	Scientific Drilling
3/9/2013	1,325.00	22.08	83.76	IncAzi-MWD	Scientific Drilling
3/9/2013	1,388.00	22.29	83.28	IncAzi-MWD	Scientific Drilling
3/9/2013	1,450.00	22.73	82.75	IncAzi-MWD	Scientific Drilling
3/9/2013	1,514.00	22.94	82.69	IncAzi-MWD	Scientific Drilling
3/9/2013	1,576.00	22.60	81.69	IncAzi-MWD	Scientific Drilling
3/9/2013	1,640.00	22.30	80.84	IncAzi-MWD	Scientific Drilling
3/9/2013	1,702.00	21.65	81.66	IncAzi-MWD	Scientific Drilling
3/9/2013	1,765.00	19.84	82.13	IncAzi-MWD	Scientific Drilling
3/9/2013	1,827.00	18.88	81.31	IncAzi-MWD	Scientific Drilling
3/9/2013	1,890.00	18.94	81.44	IncAzi-MWD	Scientific Drilling
3/9/2013	1,953.00	19.59	84.70	IncAzi-MWD	Scientific Drilling
3/9/2013	2,016.00	19.35	89.02	IncAzi-MWD	Scientific Drilling
3/9/2013	2,079.00	19.21	90.15	IncAzi-MWD	Scientific Drilling
3/9/2013	2,142.00	19.46	89.07	IncAzi-MWD	Scientific Drilling
3/9/2013	2,205.00	19.63	87.61	IncAzi-MWD	Scientific Drilling
3/9/2013	2,268.00	21.52	87.40	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 _____

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	Method	Survey Company
3/9/2013	2,330.00	21.94	87.69	IncAzi-MWD	Scientific Drilling
3/9/2013	2,392.00	20.62	86.86	IncAzi-MWD	Scientific Drilling
3/9/2013	2,455.00	18.98	85.37	IncAzi-MWD	Scientific Drilling
3/9/2013	2,519.00	17.13	84.80	IncAzi-MWD	Scientific Drilling
3/9/2013	2,583.00	16.65	86.54	IncAzi-MWD	Scientific Drilling
3/9/2013	2,646.00	16.86	86.90	IncAzi-MWD	Scientific Drilling
3/9/2013	2,709.00	15.25	88.26	IncAzi-MWD	Scientific Drilling
3/9/2013	2,772.00	14.02	89.22	IncAzi-MWD	Scientific Drilling
3/9/2013	2,836.00	11.07	88.66	IncAzi-MWD	Scientific Drilling
3/9/2013	2,899.00	8.69	85.71	IncAzi-MWD	Scientific Drilling
3/9/2013	2,962.00	6.55	85.96	IncAzi-MWD	Scientific Drilling
3/9/2013	3,025.00	4.91	84.11	IncAzi-MWD	Scientific Drilling
3/9/2013	3,088.00	3.84	86.08	IncAzi-MWD	Scientific Drilling
3/9/2013	3,132.00	3.16	83.68	IncAzi-MWD	Scientific Drilling
3/9/2013	3,214.00	2.39	84.61	IncAzi-MWD	Scientific Drilling
3/9/2013	3,278.00	1.96	85.47	IncAzi-MWD	Scientific Drilling
3/9/2013	3,341.00	1.39	91.02	IncAzi-MWD	Scientific Drilling
3/9/2013	3,404.00	0.84	82.33	IncAzi-MWD	Scientific Drilling
3/9/2013	3,467.00	0.77	84.20	IncAzi-MWD	Scientific Drilling
3/9/2013	3,530.00	0.89	103.51	IncAzi-MWD	Scientific Drilling
3/9/2013	3,593.00	0.64	142.94	IncAzi-MWD	Scientific Drilling
3/9/2013	3,656.00	0.57	105.24	IncAzi-MWD	Scientific Drilling
3/9/2013	3,719.00	0.68	163.52	IncAzi-MWD	Scientific Drilling
3/9/2013	3,782.00	0.30	133.56	IncAzi-MWD	Scientific Drilling
3/9/2013	3,845.00	0.24	231.02	IncAzi-MWD	Scientific Drilling
3/9/2013	3,908.00	0.10	273.88	IncAzi-MWD	Scientific Drilling
3/9/2013	3,972.00	0.20	341.87	IncAzi-MWD	Scientific Drilling
3/9/2013	4,035.00	0.17	262.15	IncAzi-MWD	Scientific Drilling
3/9/2013	4,097.00	0.84	162.95	IncAzi-MWD	Scientific Drilling
3/9/2013	4,146.00	0.86	179.84	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.

Cona Blaz 3/26/13 ...

Subscribed and sworn to me this 3/25/13

Gileen White

Notary Public in and for San Juan County, New Mexico

My Commission expires 5/26/15



RCVD MAY 14 '13
OIL CONS. DIV.
DIST. 3

ConocoPhillips

SJB (NM West)
SEC 1-T30N-R12W
Tommy Bolack 1P

OH

API- 30-045-35436

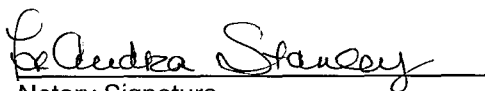
Design: OH

Standard Survey Report

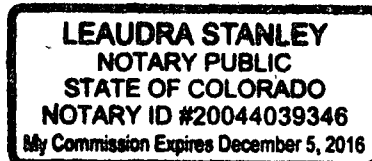
18 March, 2013

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

Notarized this date 18th of March, 2013.



Notary Signature
County of Mesa
State of Colorado



Scientific Drilling



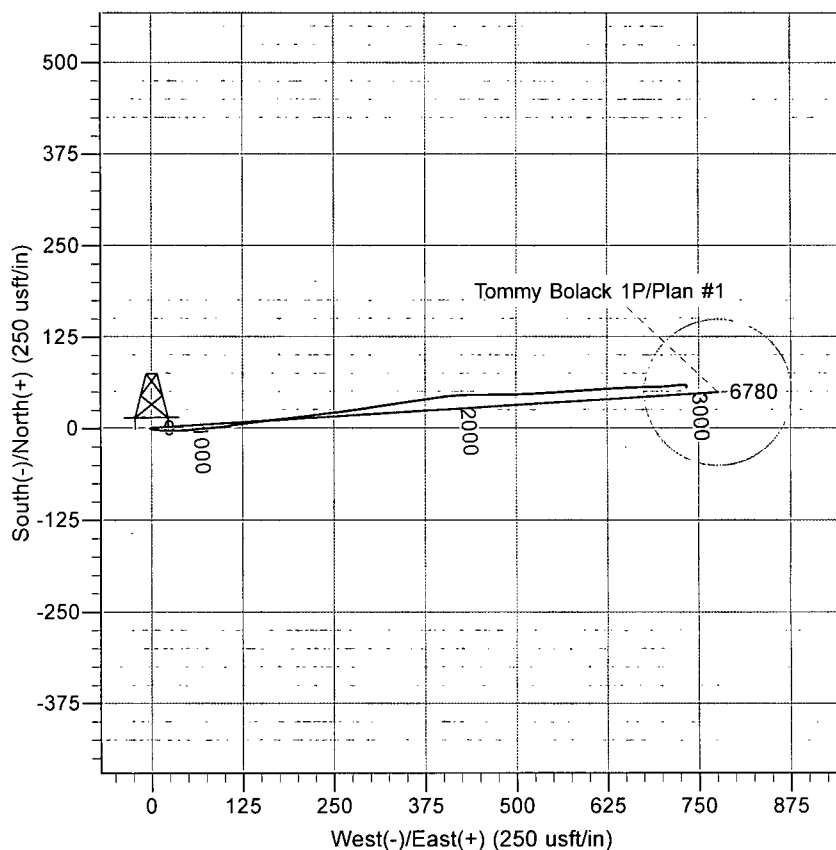
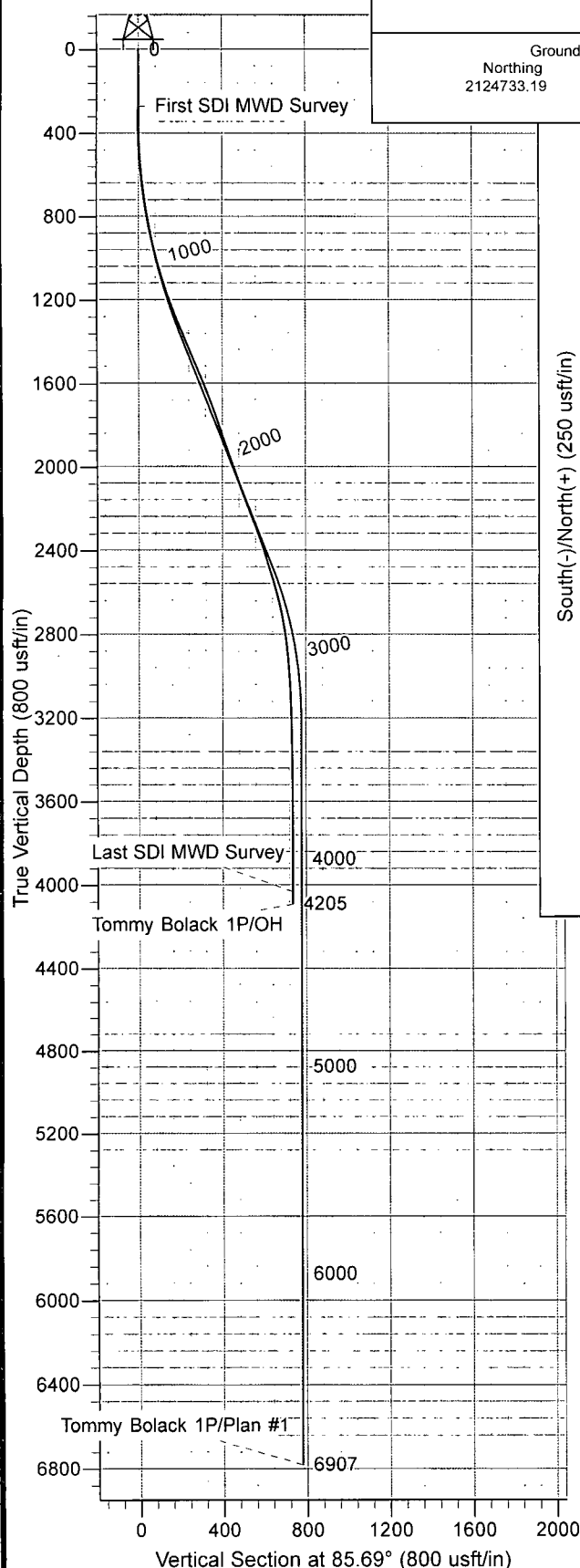
Project: SJB (NM West)
Site: SEC 01-T30N-R12W
Well: Tommy Bolack 1P
Wellbore: OH
Design: OH



Azimuths to True North
Magnetic North: 9.86°
Magnetic Field
Strength: 50522.0snT
Dip Angle: 63.43°
Date: 03/08/2013
Model: BGGM2012

WELL DETAILS: Tommy Bolack 1P

Ground Level: GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Northing 2124733.19 Easting 435616.20 Latitude 36° 50' 20.423 N Longitude 108° 3' 12.064 W



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Tommy Bolack 1P, True North
Vertical (TVD) Reference: GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Calculation Method: Minimum Curvature
Local North: True

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

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Tommy Bolack 1P
Project:	SJB (NM West)	TVD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Site:	SEC 01-T30N-R12W	MD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Well:	Tommy Bolack 1P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 DB

Project	SJB (NM West), San Juan County, 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)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site		SEC 01-T30N-R12W			
Site Position:		Northing:	2,124,733.19 usft	Latitude:	36° 50' 20.423 N
From:	Lat/Long	Easting:	435,616.20 usft	Longitude:	108° 3' 12.064 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.13 °

Well	Tommy Bolack 1P					
Well Position	+N/-S	0.0 usft	Northing:	2,124,733.19 usft	Latitude:	36° 50' 20.423 N
	+E/-W	0.0 usft	Easting:	435,616.20 usft	Longitude:	108° 3' 12.064 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	5,745.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2012	03/08/13	9.86	63.43	50,522

Design		OH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	85.69	

Survey Program	Date	03/18/13			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
270.0	4,205.0	Survey #1 - MWD Survey (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
270.0	0.67	250.21	270.0	-0.5	-1.5	-1.5	0.25	0.25	0.00
First SDI MWD Survey									
331.0	0.15	157.09	331.0	-0.7	-1.8	-1.8	1.14	-0.85	-152.66
392.0	1.59	106.14	392.0	-1.0	-0.9	-1.0	2.46	2.36	-83.52
454.0	2.80	103.90	453.9	-1.6	1.4	1.2	1.96	1.95	-3.61
516.0	4.05	100.55	515.8	-2.4	5.0	4.8	2.04	2.02	-5.40
578.0	5.29	96.19	577.6	-3.1	10.0	9.7	2.08	2.00	-7.03
639.0	6.55	91.83	638.3	-3.5	16.2	15.9	2.19	2.07	-7.15
701.0	7.74	90.52	699.8	-3.7	23.9	23.6	1.94	1.92	-2.11
763.0	9.22	88.85	761.1	-3.6	33.1	32.7	2.42	2.39	-2.69

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Tommy Bolack 1P
Project:	SJB (NM West)	TVD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Site:	SEC 01-T30N-R12W	MD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Well:	Tommy Bolack 1P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
823.0	10.75	86.98	820.2	-3.2	43.5	43.1	2.61	2.55	-3.12
886.0	12.06	86.14	882.0	-2.5	55.9	55.6	2.10	2.08	-1.33
948.0	13.54	85.95	942.4	-1.5	69.6	69.3	2.39	2.39	-0.31
1,011.0	15.12	83.13	1,003.5	0.0	85.1	84.9	2.74	2.51	-4.48
1,074.0	16.76	81.90	1,064.0	2.2	102.3	102.2	2.66	2.60	-1.95
1,137.0	18.04	81.76	1,124.2	4.9	120.9	121.0	2.03	2.03	-0.22
1,200.0	19.44	82.49	1,183.8	7.7	141.0	141.2	2.25	2.22	1.16
1,262.0	21.36	82.81	1,241.9	10.5	162.4	162.7	3.10	3.10	0.52
1,325.0	22.08	83.76	1,300.5	13.2	185.6	186.0	1.27	1.14	1.51
1,388.0	22.29	83.28	1,358.8	15.9	209.2	209.8	0.44	0.33	-0.76
1,450.0	22.73	82.75	1,416.1	18.7	232.8	233.5	0.78	0.71	-0.85
1,514.0	22.94	82.69	1,475.1	21.9	257.4	258.3	0.33	0.33	-0.09
1,576.0	22.60	81.69	1,532.2	25.2	281.2	282.3	0.83	-0.55	-1.61
1,640.0	22.30	80.84	1,591.4	28.9	305.3	306.6	0.69	-0.47	-1.33
1,702.0	21.65	81.66	1,648.9	32.4	328.3	329.8	1.16	-1.05	1.32
1,765.0	19.84	82.13	1,707.8	35.5	350.4	352.0	2.89	-2.87	0.75
1,827.0	18.88	81.31	1,766.3	38.5	370.7	372.5	1.61	-1.55	-1.32
1,890.0	18.94	81.44	1,825.9	41.6	390.9	392.9	0.12	0.10	0.21
1,953.0	19.59	84.70	1,885.3	44.1	411.5	413.7	1.99	1.03	5.17
2,016.0	19.35	89.02	1,944.7	45.2	432.5	434.6	2.32	-0.38	6.86
2,079.0	19.21	90.15	2,004.2	45.4	453.3	455.4	0.63	-0.22	1.79
2,142.0	19.46	89.07	2,063.7	45.5	474.1	476.2	0.69	0.40	-1.71
2,205.0	19.63	87.61	2,123.0	46.1	495.2	497.3	0.82	0.27	-2.32
2,268.0	21.52	87.40	2,182.0	47.1	517.3	519.4	3.00	3.00	-0.33
2,330.0	21.94	87.69	2,239.6	48.1	540.2	542.3	0.70	0.68	0.47
2,392.0	20.62	86.86	2,297.4	49.1	562.7	564.8	2.18	-2.13	-1.34
2,455.0	18.98	85.37	2,356.6	50.6	584.0	586.1	2.72	-2.60	-2.37
2,519.0	17.13	84.80	2,417.5	52.3	603.8	606.0	2.90	-2.89	-0.89
2,583.0	16.65	86.54	2,478.7	53.7	622.3	624.6	1.09	-0.75	2.72
2,646.0	16.86	86.90	2,539.1	54.7	640.4	642.7	0.37	0.33	0.57
2,709.0	15.25	88.26	2,599.6	55.5	657.8	660.1	2.62	-2.56	2.16
2,772.0	14.02	89.22	2,660.6	55.8	673.8	676.0	1.99	-1.95	1.52
2,836.0	11.07	88.66	2,723.0	56.1	687.6	689.9	4.61	-4.61	-0.88
2,899.0	8.69	85.71	2,785.1	56.6	698.4	700.7	3.86	-3.78	-4.68
2,962.0	6.55	85.96	2,847.5	57.2	706.8	709.1	3.40	-3.40	0.40
3,025.0	4.91	84.11	2,910.2	57.7	713.0	715.4	2.62	-2.60	-2.94
3,088.0	3.84	86.08	2,973.0	58.1	717.8	720.2	1.71	-1.70	3.13
3,152.0	3.16	83.68	3,036.9	58.5	721.7	724.1	1.09	-1.06	-3.75
3,214.0	2.39	84.61	3,098.8	58.8	724.7	727.1	1.24	-1.24	1.50
3,278.0	1.96	85.47	3,162.8	59.0	727.1	729.5	0.67	-0.67	1.34
3,341.0	1.39	91.02	3,225.7	59.1	729.0	731.3	0.94	-0.90	8.81
3,404.0	0.84	82.33	3,288.7	59.1	730.2	732.6	0.91	-0.87	-13.79
3,467.0	0.77	84.20	3,351.7	59.2	731.1	733.4	0.12	-0.11	2.97

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Tommy Bolack 1P
Project:	SJB (NM West)	TVD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Site:	SEC 01-T30N-R12W	MD Reference:	GL 5745' & RKB 15' @ 5760.0usft (AWS 730)
Well:	Tommy Bolack 1P	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Farmington 5000 DB

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,530.0	0.89	103.51	3,414.7	59.1	732.0	734.3	0.48	0.19	30.65
3,593.0	0.64	142.94	3,477.7	58.7	732.6	735.0	0.90	-0.40	62.59
3,656.0	0.57	105.24	3,540.7	58.4	733.2	735.5	0.63	-0.11	-59.84
3,719.0	0.68	163.52	3,603.7	57.9	733.6	735.8	0.98	0.17	92.51
3,782.0	0.30	133.56	3,666.7	57.5	733.8	736.0	0.71	-0.60	-47.56
3,845.0	0.24	231.02	3,729.7	57.3	733.8	736.0	0.65	-0.10	154.70
3,908.0	0.10	273.88	3,792.7	57.2	733.7	735.9	0.29	-0.22	68.03
3,972.0	0.20	341.87	3,856.7	57.3	733.6	735.8	0.29	0.16	106.23
4,035.0	0.17	262.15	3,919.7	57.4	733.4	735.7	0.38	-0.05	-126.54
4,097.0	0.84	162.95	3,981.7	56.9	733.5	735.7	1.42	1.08	-160.00
4,146.0	0.86	179.84	4,030.7	56.2	733.6	735.7	0.51	0.04	34.46
Last SDI MWD Survey									
4,205.0	0.86	179.84	4,089.7	55.3	733.6	735.7	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
270.0	270.0	-0.5	-1.5	First SDI MWD Survey
4,146.0	4,030.7	56.2	733.6	Last SDI MWD Survey

Checked By: _____	Approved By: _____	Date: _____
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