

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., Artec, N.M. 87410

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, N.M. 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

<sup>1</sup> API Number 30-045-35109	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 305236	<sup>5</sup> Property Name HEATON COM A	
<sup>7</sup> OGRID No. 217817	<sup>6</sup> Operator Name CONOCOPHILLIPS COMPANY	<sup>8</sup> Well Number 100S  <sup>9</sup> Elevation 5920

<sup>10</sup> Surface Location

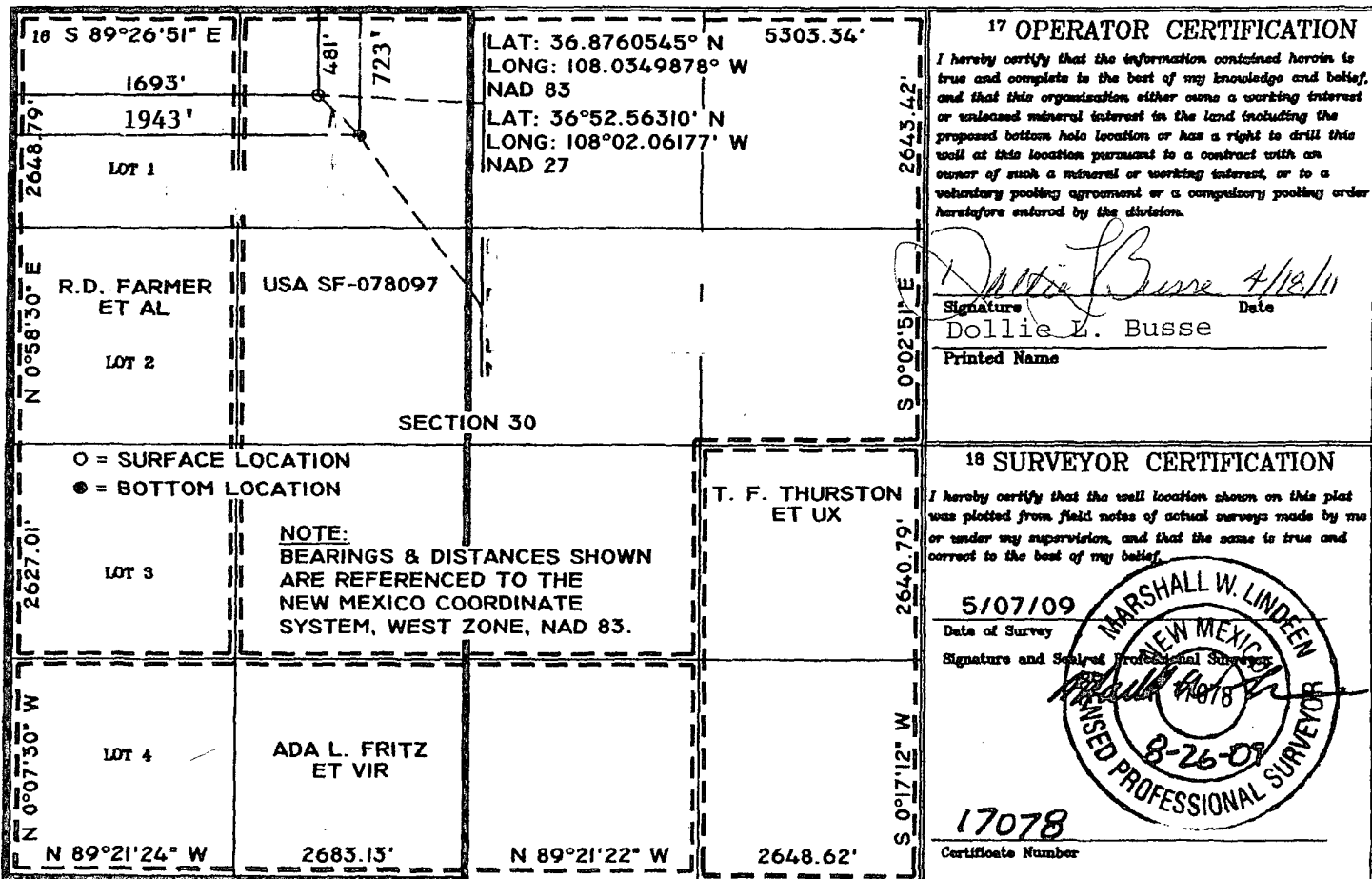
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	30	31 N	11 W		481	NORTH	1693	WEST	SAN JUAN

<sup>11</sup> 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
C	30	31 N	11 W		723	NORTH	1943	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 323.4 (W/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.	RCVD APR 25 '11 OIL CONS. DIV.
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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 DIST. 3



RCVD APR 25 '11  
 OIL CONS. DIV.  
 DIST. 3

<b>Legal WellName :</b> HEATON COM A #100S	<b>API / UWI:</b> 3004535109
<b>Operator:</b> CONOCOPHILLIPS COMPANY	<b>Surf Loc:</b> 030-031N-011W-C
<b>St/Prov:</b> NEW MEXICO	<b>N/S Dist (ft):</b> 481.00 - FNL
<b>County:</b> SAN JUAN	<b>E/W Dist (ft):</b> 1,693.00 - FWL

**Wellbore Name : Original Hole**

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
INCLINATION SURVEY	11/22/2010	.00	.00	.00

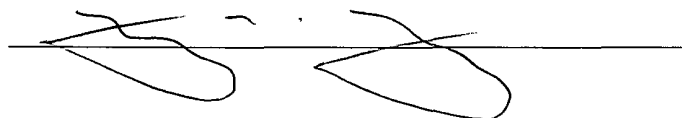
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
11/22/2010	112.00	.75	.00	Inc-Drop	MO-TE DRILLING INC
11/22/2010	232.00	.50	.00	Inc-Drop	MO-TE DRILLING INC

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
MWD SURVEY	01/07/2011	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
01/07/2011	280.00	.17	228.19	IncAzi-MWD	Scientific Drilling
01/07/2011	311.00	.14	225.95	IncAzi-MWD	Scientific Drilling
01/07/2011	342.00	.54	130.35	IncAzi-MWD	Scientific Drilling
01/07/2011	373.00	1.90	125.35	IncAzi-MWD	Scientific Drilling
01/07/2011	404.00	3.28	126.28	IncAzi-MWD	Scientific Drilling
01/07/2011	434.00	4.65	128.52	IncAzi-MWD	Scientific Drilling
01/07/2011	465.00	5.87	127.17	IncAzi-MWD	Scientific Drilling
01/07/2011	496.00	7.27	126.37	IncAzi-MWD	Scientific Drilling
01/07/2011	526.00	8.41	131.20	IncAzi-MWD	Scientific Drilling
01/07/2011	588.00	10.82	138.61	IncAzi-MWD	Scientific Drilling
01/07/2011	649.00	12.44	131.07	IncAzi-MWD	Scientific Drilling
01/07/2011	740.00	16.75	129.18	IncAzi-MWD	Scientific Drilling
01/07/2011	802.00	20.13	131.87	IncAzi-MWD	Scientific Drilling
01/07/2011	863.00	20.93	133.58	IncAzi-MWD	Scientific Drilling
01/07/2011	925.00	18.97	135.22	IncAzi-MWD	Scientific Drilling
01/07/2011	987.00	18.48	135.21	IncAzi-MWD	Scientific Drilling
01/07/2011	1,048.00	19.35	135.31	IncAzi-MWD	Scientific Drilling
01/07/2011	1,112.00	21.31	132.15	IncAzi-MWD	Scientific Drilling
01/07/2011	1,179.00	21.31	132.15	IncAzi-MWD	Scientific Drilling
01/07/2011	1,207.00	21.42	132.72	IncAzi-MWD	Scientific Drilling
01/07/2011	1,239.00	21.84	134.13	IncAzi-MWD	Scientific Drilling
01/07/2011	1,270.00	20.72	136.53	IncAzi-MWD	Scientific Drilling
01/07/2011	1,334.00	18.07	142.56	IncAzi-MWD	Scientific Drilling
01/07/2011	1,398.00	16.26	143.66	IncAzi-MWD	Scientific Drilling
01/07/2011	1,461.00	13.72	146.08	IncAzi-MWD	Scientific Drilling
01/08/2011	1,525.00	11.89	139.94	IncAzi-MWD	Scientific Drilling
01/08/2011	1,588.00	9.82	130.41	IncAzi-MWD	Scientific Drilling

01/08/2011	1,651.00	7.70	121.29	IncAzi-MWD	Scientific Drilling
01/08/2011	1,715.00	5.18	126.11	IncAzi-MWD	Scientific Drilling
01/08/2011	1,778.00	3.63	138.94	IncAzi-MWD	Scientific Drilling
01/08/2011	1,841.00	1.54	162.58	IncAzi-MWD	Scientific Drilling
01/08/2011	1,904.00	.44	5.70	IncAzi-MWD	Scientific Drilling
01/08/2011	1,968.00	1.25	358.82	IncAzi-MWD	Scientific Drilling
01/08/2011	2,032.00	1.47	359.71	IncAzi-MWD	Scientific Drilling
01/08/2011	2,095.00	1.55	353.38	IncAzi-MWD	Scientific Drilling
01/08/2011	2,158.00	1.36	350.57	IncAzi-MWD	Scientific Drilling
01/08/2011	2,221.00	.94	355.15	IncAzi-MWD	Scientific Drilling
01/08/2011	2,285.00	.69	34.68	IncAzi-MWD	Scientific Drilling
01/08/2011	2,348.00	.64	101.31	IncAzi-MWD	Scientific Drilling
01/08/2011	2,411.00	.91	108.85	IncAzi-MWD	Scientific Drilling
01/08/2011	2,475.00	1.53	151.66	IncAzi-MWD	Scientific Drilling
01/08/2011	2,539.00	1.41	163.09	IncAzi-MWD	Scientific Drilling
01/09/2011	2,621.00	1.69	172.40	IncAzi-MWD	Scientific Drilling
01/09/2011	2,675.00	1.69	172.40	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 April 20, 2011



Notary Public in and for San Juan County, New Mexico

My Commission expires AUGUST 6, 2014



RCVD APR 25 '11

OIL CONS. DIV.

DIST. 3

# ConocoPhillips

SJB (NM West)  
SEC 30-T31N-R11W  
Heaton Com A #100S

API 30-045-35109

Original Hole

Survey: Actual

## Standard Survey Report

08 February, 2011

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

Richard

Notarized this date 8th of February, 2011.

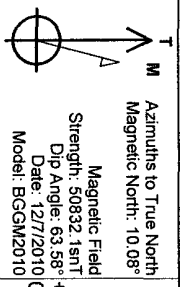
Carrie Reed

Notary Signature  
County of Midland  
State of Texas



**Scientific Drilling**  
Directional Drilling Operations

Project: SJB (NM West)  
Site: SEC 30-T31N-R11W  
Well: Heaton Com A #100S  
Wellbore: Original Hole  
Design: Plan #1



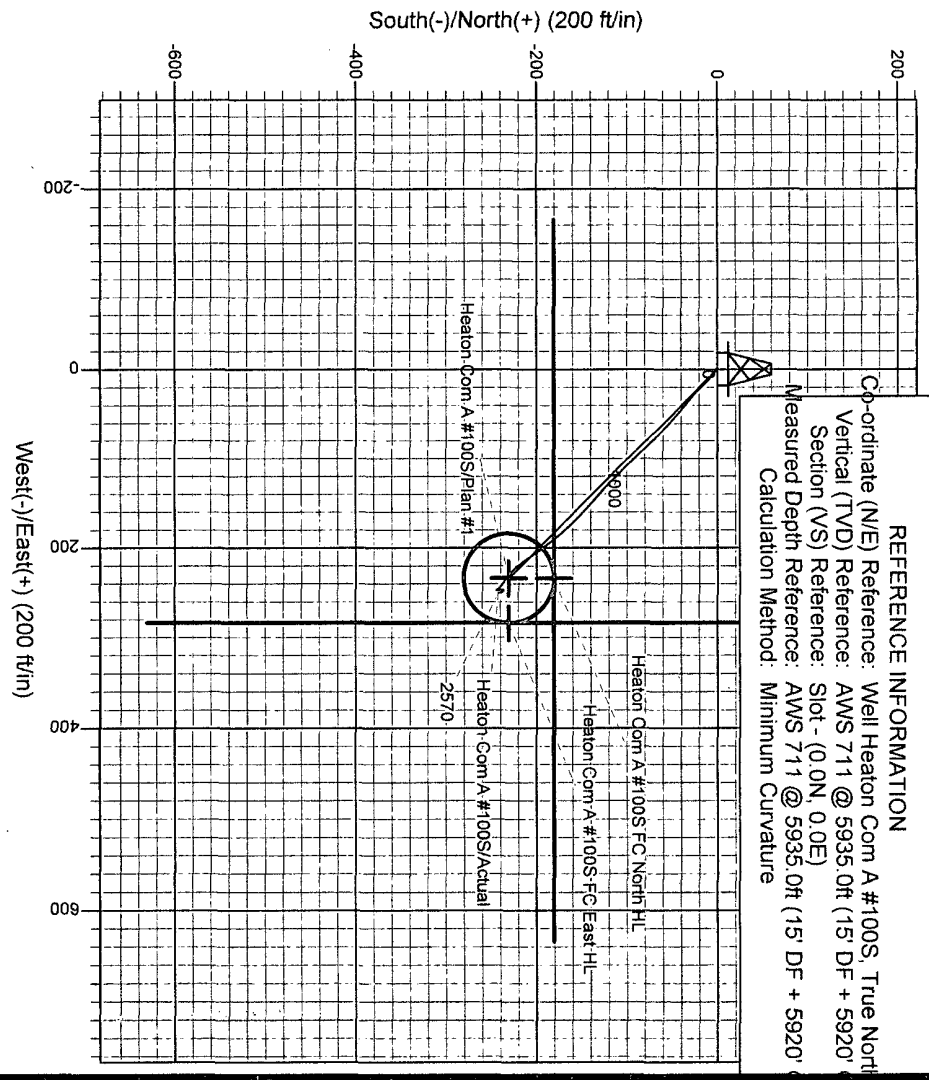
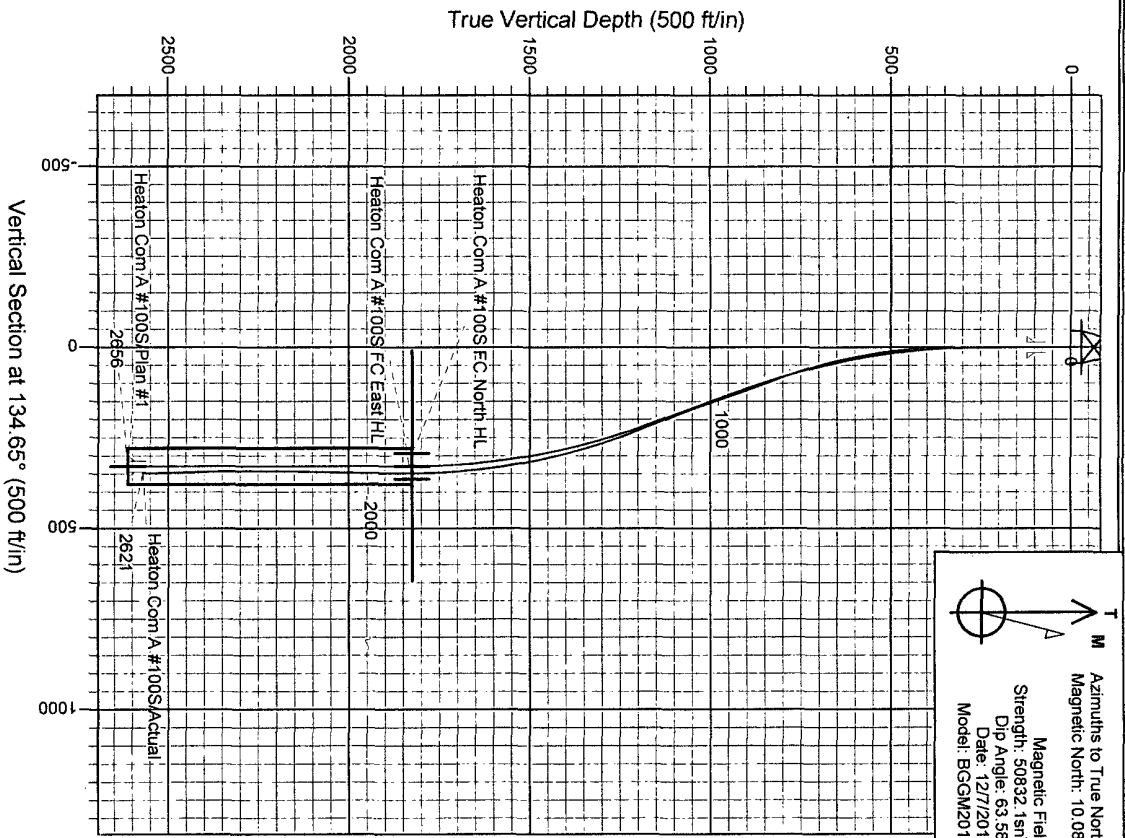
+N/-S  
+E/-W  
Northing  
Easting

0.0  
0.0  
2138207.36  
441201.14

WELL DETAILS: Heaton Com A #100S  
AWS 711 @ 5935.0ft (15' DF + 5920' GL)  
Ground Level: 5920.0

Latitude  
Longitude  
Slot

36° 52' 33.786 N  
108° 2' 3.706 W



REFERENCE INFORMATION  
Co-ordinate (N/E) Reference: Well Heaton Com A #100S, True North  
Vertical (TVD) Reference: AWS 711 @ 5935.0ft (15' DF + 5920' GL)  
Section (VS) Reference: Slot - (0.0N, 0.0E)  
Measured Depth Reference: AWS 711 @ 5935.0ft (15' DF + 5920' 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 30-T31N-R11W  
San Juan County NM  
Site Centre Latitude: 36° 52' 33.786 N  
Longitude: 108° 2' 3.706 W  
Positional Uncertainty: 7.5  
Convergence: -0.12  
Local North: True

<b>Company:</b>	ConocoPhillips	<b>Local Co-ordinate Reference:</b>	Well Heaton Com A #100S
<b>Project:</b>	SJB (NM West)	<b>TVD Reference:</b>	AWS 711 @ 5935.0ft (15' DF + 5920' GL)
<b>Site:</b>	SEC 30-T31N-R11W	<b>MD Reference:</b>	AWS 711 @ 5935.0ft (15' DF + 5920' GL)
<b>Well:</b>	Heaton Com A #100S	<b>North Reference:</b>	True
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Original Hole	<b>Database:</b>	edmCOP

<b>Project</b>	SJB (NM West), New Mexico, S-Type MV/DK Wells		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		Using Well Reference Point
<b>Map Zone:</b>	New Mexico West 3003		Using geodetic scale factor

<b>Site</b>	SEC 30-T31N-R11W				
<b>Site Position:</b>		<b>Northing:</b>	2,138,207.36 ft	<b>Latitude:</b>	36° 52' 33.786 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	441,201.14 ft	<b>Longitude:</b>	108° 2' 3.706 W
<b>Position Uncertainty:</b>	15.0 ft	<b>Slot Radius:</b>	4-3/8"	<b>Grid Convergence:</b>	-0.12 °

<b>Well</b>	Heaton Com A #100S, FC Nudge					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	2,138,207.36 ft	<b>Latitude:</b>	36° 52' 33.786 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	441,201.14 ft	<b>Longitude:</b>	108° 2' 3.706 W
<b>Position Uncertainty</b>		3.5 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,920.0 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2010	12/7/2010	10.08	63.58	50,832

<b>Design</b>	Original Hole				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	134.02

<b>Survey Program</b>	<b>Date</b>	2/8/2011			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
280.0	2,621.0	Actual (Original Hole)	MWD SDI	MWD - Standard ver 1.0.1	

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
280.0	0.17	228.19	280.0	-0.3	-0.3	0.0	0.06	0.06	0.00
311.0	0.14	225.95	311.0	-0.3	-0.4	0.0	0.10	-0.10	-7.23
342.0	0.54	130.35	342.0	-0.5	-0.3	0.1	1.84	1.29	-308.39
373.0	1.90	125.35	373.0	-0.8	0.2	0.8	4.40	4.39	-16.13
404.0	3.28	126.28	404.0	-1.7	1.4	2.2	4.45	4.45	3.00
434.0	4.65	128.52	433.9	-2.9	3.0	4.2	4.59	4.57	7.47
465.0	5.87	127.17	464.8	-4.7	5.3	7.0	3.96	3.94	-4.35
496.0	7.27	126.37	495.6	-6.8	8.1	10.6	4.53	4.52	-2.58
526.0	8.41	131.20	525.3	-9.4	11.3	14.6	4.39	3.80	16.10
588.0	10.82	138.61	586.4	-16.7	18.5	25.0	4.36	3.89	11.95
649.0	12.44	131.07	646.1	-25.3	27.3	37.2	3.64	2.66	-12.36
740.0	16.75	129.18	734.2	-40.1	44.9	60.1	4.76	4.74	-2.08

<b>Company:</b>	ConocoPhillips	<b>Local Co-ordinate Reference:</b>	Well Heaton Com A #100S
<b>Project:</b>	SJB (NM West)	<b>TVD Reference:</b>	AWS 711 @ 5935.0ft (15' DF + 5920' GL)
<b>Site:</b>	SEC 30-T31N-R11W	<b>MD Reference:</b>	AWS 711 @ 5935.0ft (15' DF + 5920' GL)
<b>Well:</b>	Heaton Com A #100S	<b>North Reference:</b>	True
<b>Wellbore:</b>	Original Hole	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Original Hole	<b>Database:</b>	edmCOP

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)
802.0	20.13	131.87	793.0	-52.8	59.7	79.7	5.62	5.45	4.34
863.0	20.93	133.58	850.1	-67.3	75.4	101.0	1.64	1.31	2.80
925.0	18.97	135.22	908.4	-82.1	90.6	122.2	3.29	-3.16	2.65
987.0	18.48	135.21	967.1	-96.3	104.6	142.1	0.79	-0.79	-0.02
1,048.0	19.35	135.31	1,024.8	-110.3	118.5	161.9	1.43	1.43	0.16
1,112.0	21.31	132.15	1,084.8	-125.7	134.6	184.1	3.51	3.06	-4.94
1,179.0	21.31	132.15	1,147.3	-142.0	152.6	208.4	0.00	0.00	0.00
1,207.0	21.42	132.72	1,173.3	-148.9	160.2	218.6	0.84	0.39	2.04
1,239.0	21.84	134.13	1,203.1	-157.0	168.7	230.4	2.09	1.31	4.41
1,270.0	20.72	136.53	1,232.0	-165.0	176.6	241.7	4.58	-3.61	7.74
1,334.0	18.07	142.56	1,292.3	-181.1	190.5	262.8	5.18	-4.14	9.42
1,398.0	16.26	143.66	1,353.5	-196.2	201.8	281.4	2.87	-2.83	1.72
1,461.0	13.72	146.08	1,414.3	-209.5	211.2	297.5	4.15	-4.03	3.84
1,525.0	11.89	139.94	1,476.7	-220.8	219.7	311.4	3.56	-2.86	-9.59
1,588.0	9.82	130.41	1,538.6	-229.3	228.0	323.3	4.34	-3.29	-15.13
1,651.0	7.70	121.29	1,600.9	-235.0	235.7	332.7	4.01	-3.37	-14.48
1,715.0	5.18	126.11	1,664.5	-238.9	241.7	339.8	4.02	-3.94	7.53
1,778.0	3.63	138.94	1,727.3	-242.1	245.3	344.6	2.90	-2.46	20.37
1,841.0	1.54	162.58	1,790.2	-244.4	246.8	347.3	3.66	-3.32	37.52
1,904.0	0.44	5.70	1,853.2	-245.0	247.1	347.9	3.10	-1.75	-249.02
1,968.0	1.25	358.82	1,917.2	-244.0	247.1	347.3	1.27	1.27	-10.75
2,032.0	1.47	359.71	1,981.2	-242.5	247.1	346.2	0.35	0.34	1.39
2,095.0	1.55	353.38	2,044.2	-240.8	247.0	345.0	0.29	0.13	-10.05
2,158.0	1.36	350.57	2,107.1	-239.3	246.8	343.7	0.32	-0.30	-4.46
2,221.0	0.94	355.15	2,170.1	-238.0	246.6	342.7	0.68	-0.67	7.27
2,285.0	0.69	34.68	2,234.1	-237.2	246.8	342.3	0.94	-0.39	61.77
2,348.0	0.64	101.31	2,297.1	-236.9	247.3	342.5	1.16	-0.08	105.76
2,411.0	0.91	108.85	2,360.1	-237.1	248.2	343.2	0.46	0.43	11.97
2,475.0	1.53	151.66	2,424.1	-238.1	249.0	344.5	1.66	0.97	66.89
2,539.0	1.41	163.09	2,488.1	-239.6	249.7	346.0	0.49	-0.19	17.86
2,621.0	1.69	172.40	2,570.1	-241.7	250.1	347.9	0.46	0.34	11.35