

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

AS DRILLED PLAT

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31029	² Pool Code 71599 / 97232	³ Pool Name BASIN DAKOTA / BASIN MANCOS
⁴ Property Code 27846	⁵ Property Name SOONER	⁶ Well Number 1E
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6988'

¹⁰ Surface Location

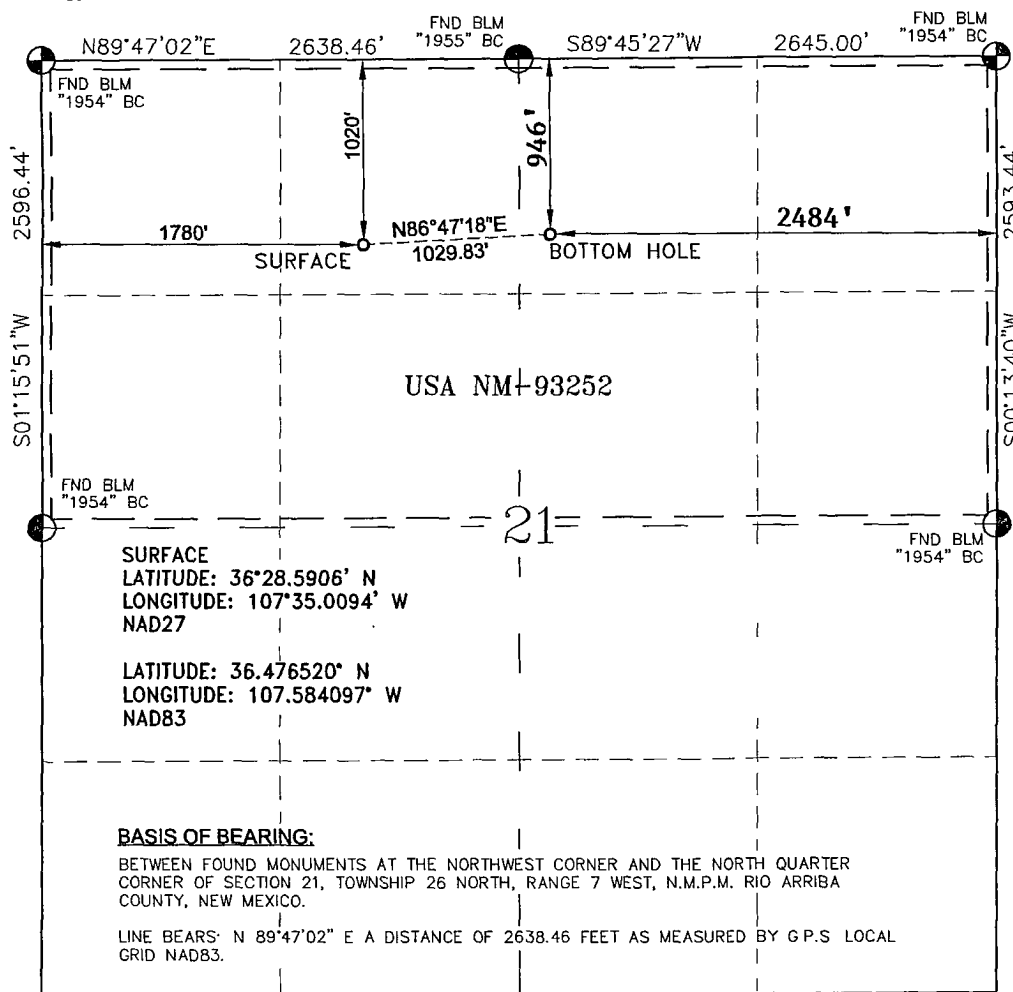
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	26-N	7-W		1020	NORTH	1780	WEST	RIO ARRIBA

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
B	21	26-N	7-W		946'	NORTH	2484'	EAST	RIO ARRIBA
¹² Dedicated Acres DK 320.00 ACRES N/2			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

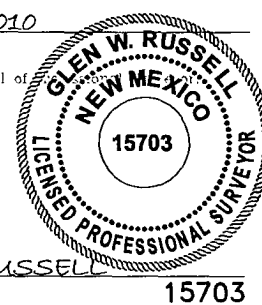
Signature
Marie E. Jaramillo 7/23/12
Printed Name

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.

JUNE 17, 2010
Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number

15703

Av

ConocoPhillips

COP Deviation Report

SOONER #1E

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SOONER #1E	API / UWI 3003931029	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 021-026N-007W-C	N/S Dist (ft) 1,020.00	N/S Ref FNL	E/W Dist (ft) 1,780.00	E/W Ref FWL

Survey Data

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
5/18/2012	130.00	0.75		Inc-WL	Mo Te Drilling Inc
5/18/2012	230.00	1.00		Inc-WL	Mo Te Drilling Inc
5/18/2012	325.00	1.00		Inc-WL	Mo Te Drilling Inc
5/27/2012	390.00	0.81	6.91	IncAzi-MWD	Scientific Drilling
5/27/2012	421.00	0.57	38.66	IncAzi-MWD	Scientific Drilling
5/27/2012	451.00	0.91	17.19	IncAzi-MWD	Scientific Drilling
5/27/2012	482.00	1.03	30.69	IncAzi-MWD	Scientific Drilling
5/27/2012	512.00	0.61	51.56	IncAzi-MWD	Scientific Drilling
5/27/2012	543.00	0.77	46.39	IncAzi-MWD	Scientific Drilling
5/27/2012	573.00	0.72	27.80	IncAzi-MWD	Scientific Drilling
5/27/2012	604.00	1.30	51.83	IncAzi-MWD	Scientific Drilling
5/27/2012	635.00	2.31	69.10	IncAzi-MWD	Scientific Drilling
5/27/2012	666.00	3.53	80.23	IncAzi-MWD	Scientific Drilling
5/27/2012	698.00	4.79	81.88	IncAzi-MWD	Scientific Drilling
5/27/2012	729.00	5.47	79.16	IncAzi-MWD	Scientific Drilling
5/27/2012	761.00	5.44	78.64	IncAzi-MWD	Scientific Drilling
5/27/2012	824.00	7.21	76.45	IncAzi-MWD	Scientific Drilling
5/27/2012	887.00	8.35	75.50	IncAzi-MWD	Scientific Drilling
5/27/2012	950.00	9.30	78.80	IncAzi-MWD	Scientific Drilling
5/27/2012	1,013.00	10.55	79.26	IncAzi-MWD	Scientific Drilling
5/27/2012	1,077.00	11.33	83.63	IncAzi-MWD	Scientific Drilling
5/27/2012	1,140.00	12.37	85.59	IncAzi-MWD	Scientific Drilling
5/27/2012	1,203.00	12.78	85.18	IncAzi-MWD	Scientific Drilling
5/27/2012	1,267.00	14.02	83.73	IncAzi-MWD	Scientific Drilling
5/27/2012	1,330.00	15.05	85.29	IncAzi-MWD	Scientific Drilling
5/27/2012	1,393.00	16.16	84.38	IncAzi-MWD	Scientific Drilling
5/27/2012	1,456.00	17.39	83.97	IncAzi-MWD	Scientific Drilling
5/27/2012	1,519.00	18.13	84.84	IncAzi-MWD	Scientific Drilling
5/27/2012	1,582.00	18.55	86.29	IncAzi-MWD	Scientific Drilling
5/27/2012	1,645.00	19.44	86.44	IncAzi-MWD	Scientific Drilling
5/27/2012	1,708.00	20.15	87.20	IncAzi-MWD	Scientific Drilling
5/27/2012	1,772.00	21.33	88.54	IncAzi-MWD	Scientific Drilling
5/27/2012	1,834.00	21.79	89.34	IncAzi-MWD	Scientific Drilling
5/27/2012	1,897.00	22.90	89.25	IncAzi-MWD	Scientific Drilling
5/27/2012	1,960.00	24.20	89.41	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
5/27/2012	2,023.00	25.73	88.73	IncAzi-MWD	Scientific Drilling
5/27/2012	2,086.00	26.52	87.96	IncAzi-MWD	Scientific Drilling
5/27/2012	2,150.00	26.18	88.58	IncAzi-MWD	Scientific Drilling
5/27/2012	2,213.00	26.11	87.76	IncAzi-MWD	Scientific Drilling
5/27/2012	2,277.00	26.36	87.08	IncAzi-MWD	Scientific Drilling
5/27/2012	2,340.00	26.03	87.15	IncAzi-MWD	Scientific Drilling
5/27/2012	2,404.00	26.62	87.50	IncAzi-MWD	Scientific Drilling
5/27/2012	2,466.00	27.77	87.05	IncAzi-MWD	Scientific Drilling
5/27/2012	2,530.00	28.85	86.49	IncAzi-MWD	Scientific Drilling
5/27/2012	2,593.00	27.62	88.02	IncAzi-MWD	Scientific Drilling
5/27/2012	2,656.00	26.52	87.78	IncAzi-MWD	Scientific Drilling
5/27/2012	2,719.00	26.10	87.48	IncAzi-MWD	Scientific Drilling
5/27/2012	2,782.00	25.61	86.60	IncAzi-MWD	Scientific Drilling
5/27/2012	2,845.00	24.99	84.67	IncAzi-MWD	Scientific Drilling
5/27/2012	2,908.00	23.99	84.58	IncAzi-MWD	Scientific Drilling
5/27/2012	2,971.00	23.32	83.15	IncAzi-MWD	Scientific Drilling
5/27/2012	3,034.00	22.03	82.39	IncAzi-MWD	Scientific Drilling
5/27/2012	3,098.00	20.65	83.37	IncAzi-MWD	Scientific Drilling
5/27/2012	3,161.00	18.55	82.96	IncAzi-MWD	Scientific Drilling
5/27/2012	3,224.00	18.13	84.63	IncAzi-MWD	Scientific Drilling
5/27/2012	3,288.00	16.76	87.32	IncAzi-MWD	Scientific Drilling
5/27/2012	3,351.00	15.82	86.82	IncAzi-MWD	Scientific Drilling
5/27/2012	3,415.00	14.30	86.05	IncAzi-MWD	Scientific Drilling
5/27/2012	3,477.00	12.64	85.59	IncAzi-MWD	Scientific Drilling
5/27/2012	3,540.00	11.16	85.67	IncAzi-MWD	Scientific Drilling
5/27/2012	3,603.00	9.66	83.73	IncAzi-MWD	Scientific Drilling
5/27/2012	3,666.00	8.09	83.77	IncAzi-MWD	Scientific Drilling
5/27/2012	3,730.00	7.31	82.72	IncAzi-MWD	Scientific Drilling
5/27/2012	3,793.00	6.98	85.28	IncAzi-MWD	Scientific Drilling
5/27/2012	3,856.00	6.33	81.83	IncAzi-MWD	Scientific Drilling
5/27/2012	3,920.00	4.86	79.40	IncAzi-MWD	Scientific Drilling
5/27/2012	3,982.00	3.98	78.96	IncAzi-MWD	Scientific Drilling
5/27/2012	4,045.00	2.76	93.15	IncAzi-MWD	Scientific Drilling
5/27/2012	4,108.00	2.67	101.57	IncAzi-MWD	Scientific Drilling
5/27/2012	4,171.00	2.14	96.65	IncAzi-MWD	Scientific Drilling
5/27/2012	4,234.00	2.09	106.74	IncAzi-MWD	Scientific Drilling
5/27/2012	4,297.00	1.93	97.70	IncAzi-MWD	Scientific Drilling
5/27/2012	4,359.00	1.91	105.70	IncAzi-MWD	Scientific Drilling
5/27/2012	4,423.00	1.46	108.03	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
5/27/2012	4,486.00	1.60	102.10	IncAzi-MWD	Scientific Drilling
5/27/2012	4,549.00	1.65	101.85	IncAzi-MWD	Scientific Drilling
5/27/2012	4,612.00	1.12	105.29	IncAzi-MWD	Scientific Drilling
5/27/2012	4,676.00	1.05	101.65	IncAzi-MWD	Scientific Drilling
5/27/2012	4,740.00	1.19	121.93	IncAzi-MWD	Scientific Drilling
5/27/2012	5,033.00	1.75		Inc-Drop	AWS 730
6/14/2012	7,755.00	2.50		Inc-WL	Phoenix Services LLC

I, the undersigned, certify that I acting in my capacity as William S. Grasso 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 7/23/12

Manuel Juarez
Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14



ConocoPhillips

SJB (NM Central)
SEC 21-T26N-R7W
Sooner 1E

OH

Design: OH

API#3003931029

Standard Survey Report

04 June, 2012

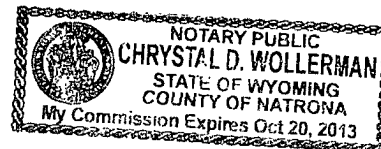
This survey is correct to the best of my knowledge and is supported by actual field data.

A handwritten signature in black ink, appearing to be "G. J. J.", written over a horizontal line.

Notarized this date 4th of May, 2012.

A handwritten signature in black ink, appearing to be "Chrystal D. Wollerman", written over a horizontal line.

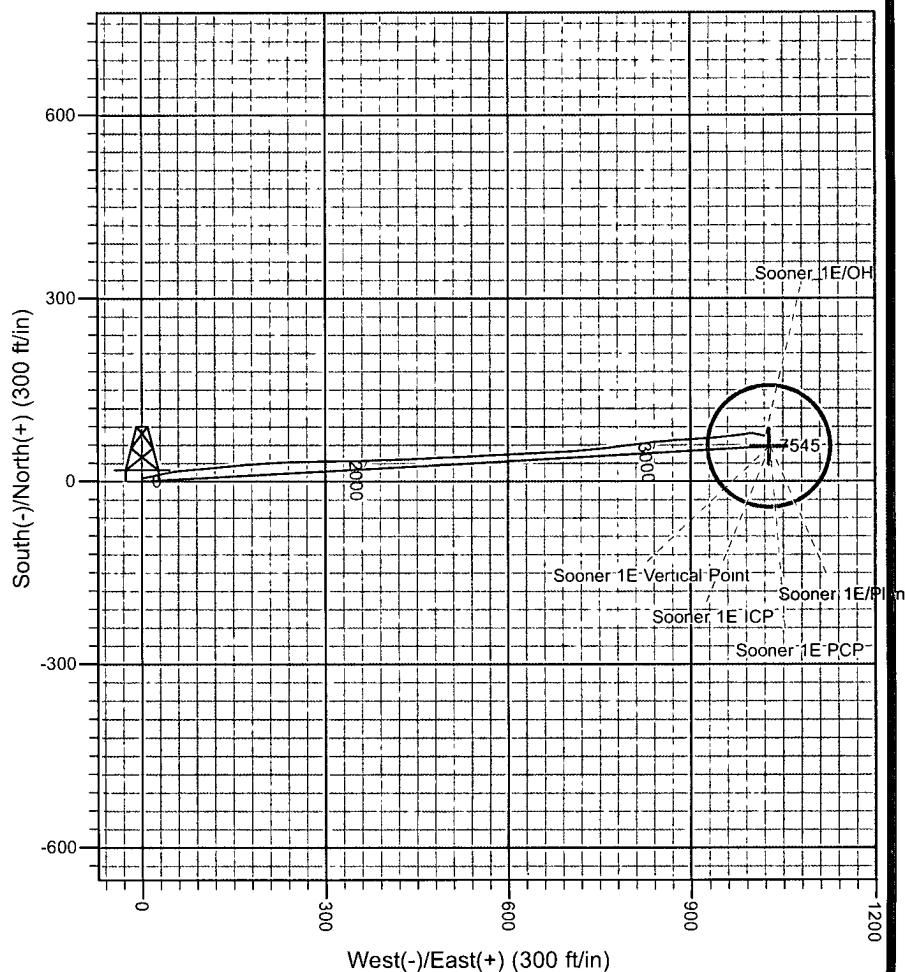
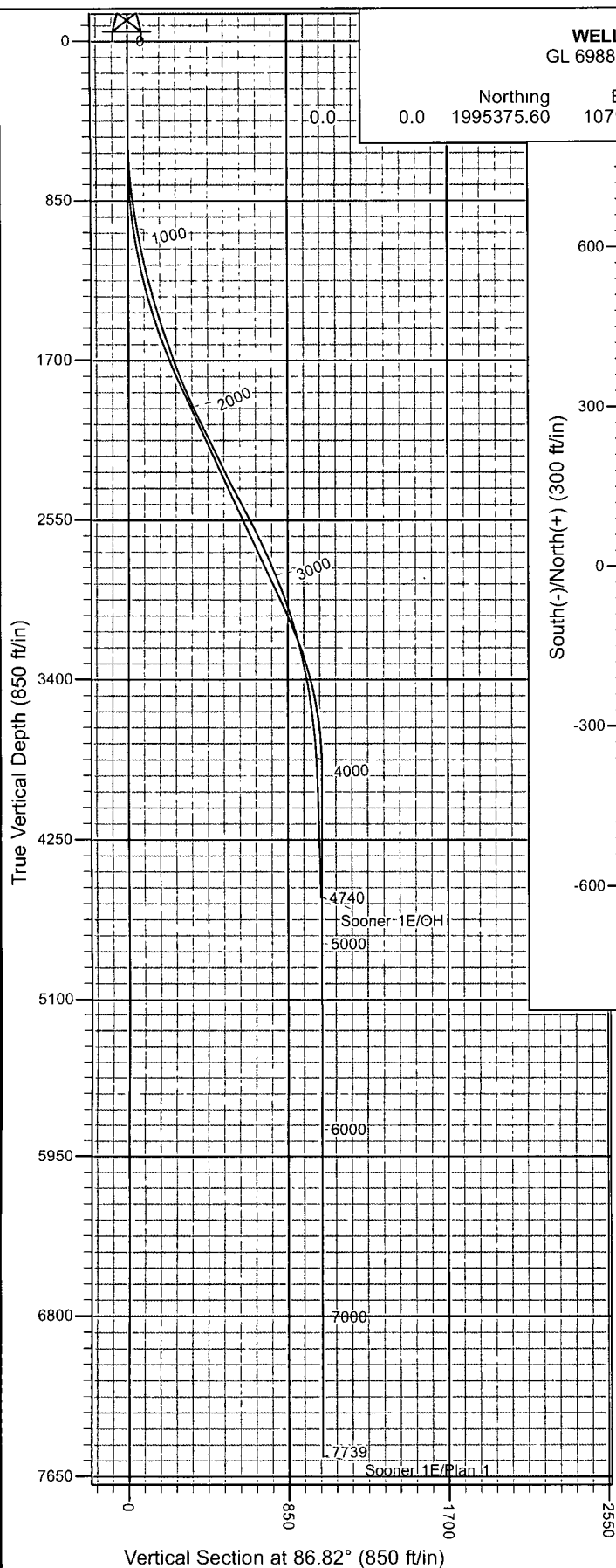
Notary Signature
County of Natrona
State of Wyoming



WELL DETAILS: Sooner 1E
GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Ground Level: 6988.0

North	Easting	Latitude	Longitude
0.0 1995375.60	107943.61	36° 28' 35.436 N	107° 35' 0.564 W

MAzimuths to True North
Magnetic North 9 67°
Magnetic Field
Strength 50475 4snT
Dip Angle: 63 24°
Date 2012/05/18
Model BGGM2011



REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Sooner 1E, True North
Vertical (TVD) Reference: GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Calculation Method: Minimum Curvature

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

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Sooner 1E
Project:	SJB (NM Central)	TVD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Site:	SEC 21-T26N-R7W	MD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Well:	Sooner 1E	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 2003.21 Single User Db

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 21-T26N-R7W		
Site Position:		Northing:	1,995,375.60 ft
From:	Lat/Long	Easting:	107,943.61 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 28' 35.436 N
		Longitude:	107° 35' 0.564 W
		Grid Convergence:	-0.79 °

Well	Sooner 1E, 1020' FNL 1780' FWL		
Well Position	+N-S	0.0 ft	Northing: 1,995,375.60 ft
	+E-W	0.0 ft	Easting: 107,943.61 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 28' 35.436 N
		Longitude:	107° 35' 0.564 W
		Ground Level:	6,988.0 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2011	2012/05/18	(°)
			9.67
			63.24
			50,475

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			86.82

Survey Program	Date: 2012/06/04		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
390.0	4,740.0	Survey #1 (OH)	MWD SDI
			Description
			MWD - Standard ver 1.0 1

Survey									
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(ft)	(ft)	Section	Rate	Rate	Rate
(ft)			(ft)			(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
390.0	0.81	6.91	390.0	2.7	0.3	0.5	0.21	0.21	0.00
First SDI MWD Survey									
421.0	0.57	38.66	421.0	3.1	0.5	0.6	1.43	-0.77	102.42
451.0	0.91	17.19	451.0	3.4	0.6	0.8	1.44	1.13	-71.57
482.0	1.03	30.69	482.0	3.9	0.8	1.0	0.83	0.39	43.55
512.0	0.61	51.56	512.0	4.2	1.1	1.3	1.70	-1.40	69.57
543.0	0.77	46.39	543.0	4.5	1.4	1.6	0.55	0.52	-16.68
573.0	0.72	27.80	573.0	4.8	1.6	1.9	0.82	-0.17	-61.97
604.0	1.30	51.83	604.0	5.2	2.0	2.3	2.28	1.87	77.52
635.0	2.31	69.10	634.9	5.6	2.8	3.1	3.66	3.26	55.71
666.0	3.53	80.23	665.9	6.0	4.4	4.7	4.32	3.94	35.90
698.0	4.79	81.88	697.8	6.3	6.7	7.0	3.95	3.94	5.16

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Sooner 1E
Project:	SJB (NM Central)	TVD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Site:	SEC 21-T26N-R7W	MD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Well:	Sooner 1E	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
729.0	5.47	79.16	728.7	6.8	9.4	9.8	2.33	2.19	-8.77	
761.0	5.44	78.64	760.6	7.4	12.4	12.8	0.18	-0.09	-1.63	
824.0	7.21	76.45	823.2	8.9	19.1	19.6	2.84	2.81	-3.48	
887.0	8.35	75.50	885.6	11.0	27.4	28.0	1.82	1.81	-1.51	
950.0	9.30	78.80	947.8	13.1	36.8	37.5	1.71	1.51	5.24	
1,013.0	10.55	79.26	1,009.9	15.2	47.5	48.3	1.99	1.98	0.73	
1,077.0	11.33	83.63	1,072.7	17.0	59.5	60.4	1.78	1.22	6.83	
1,140.0	12.37	85.59	1,134.4	18.2	72.4	73.3	1.77	1.65	3.11	
1,203.0	12.78	85.18	1,195.9	19.3	86.1	87.0	0.67	0.65	-0.65	
1,267.0	14.02	83.73	1,258.1	20.7	100.8	101.8	2.01	1.94	-2.27	
1,330.0	15.05	85.29	1,319.1	22.2	116.6	117.6	1.75	1.63	2.48	
1,393.0	16.16	84.38	1,379.8	23.8	133.4	134.5	1.80	1.76	-1.44	
1,456.0	17.39	83.97	1,440.1	25.6	151.5	152.7	1.96	1.95	-0.65	
1,519.0	18.13	84.84	1,500.1	27.5	170.6	171.9	1.25	1.17	1.38	
1,582.0	18.55	86.29	1,559.9	29.0	190.4	191.7	0.98	0.67	2.30	
1,645.0	19.44	86.44	1,619.5	30.3	210.9	212.2	1.41	1.41	0.24	
1,708.0	20.15	87.20	1,678.8	31.5	232.2	233.6	1.20	1.13	1.21	
1,772.0	21.33	88.54	1,738.6	32.3	254.8	256.2	1.99	1.84	2.09	
1,834.0	21.79	89.34	1,796.3	32.7	277.6	279.0	0.88	0.74	1.29	
1,897.0	22.90	89.25	1,854.5	33.0	301.5	302.9	1.76	1.76	-0.14	
1,960.0	24.20	89.41	1,912.3	33.3	326.7	328.1	2.07	2.06	0.25	
2,023.0	25.73	88.73	1,969.4	33.8	353.3	354.6	2.47	2.43	-1.08	
2,086.0	26.52	87.96	2,026.0	34.6	381.0	382.4	1.36	1.25	-1.22	
2,150.0	26.18	88.58	2,083.3	35.4	409.4	410.8	0.68	-0.53	0.97	
2,213.0	26.11	87.76	2,139.9	36.3	437.2	438.5	0.58	-0.11	-1.30	
2,277.0	26.36	87.08	2,197.3	37.6	465.4	466.8	0.61	0.39	-1.06	
2,340.0	26.03	87.15	2,253.8	39.0	493.2	494.6	0.53	-0.52	0.11	
2,404.0	26.62	87.50	2,311.2	40.3	521.6	523.0	0.95	0.92	0.55	
2,466.0	27.77	87.05	2,366.3	41.7	549.9	551.3	1.88	1.85	-0.73	
2,530.0	28.85	86.49	2,422.7	43.4	580.2	581.7	1.74	1.69	-0.88	
2,593.0	27.62	88.02	2,478.2	44.8	609.9	611.5	2.27	-1.95	2.43	
2,656.0	26.52	87.78	2,534.3	45.9	638.6	640.1	1.75	-1.75	-0.38	
2,719.0	26.10	87.48	2,590.7	47.0	666.5	668.1	0.70	-0.67	-0.48	
2,782.0	25.61	86.60	2,647.4	48.4	693.9	695.5	0.99	-0.78	-1.40	
2,845.0	24.99	84.67	2,704.4	50.5	720.8	722.4	1.64	-0.98	-3.06	
2,908.0	23.99	84.58	2,761.7	52.9	746.8	748.5	1.59	-1.59	-0.14	
2,971.0	23.32	83.15	2,819.4	55.6	771.9	773.8	1.40	-1.06	-2.27	
3,034.0	22.03	82.39	2,877.6	58.7	796.0	798.0	2.10	-2.05	-1.21	
3,098.0	20.65	83.37	2,937.2	61.6	819.1	821.2	2.23	-2.16	1.53	
3,161.0	18.55	82.96	2,996.5	64.1	840.1	842.3	3.34	-3.33	-0.65	
3,224.0	18.13	84.63	3,056.3	66.2	859.8	862.1	1.07	-0.67	2.65	
3,288.0	16.76	87.32	3,117.4	67.6	878.9	881.3	2.48	-2.14	4.20	
3,351.0	15.82	86.82	3,177.8	68.5	896.6	899.0	1.51	-1.49	-0.79	
3,415.0	14.30	86.05	3,239.6	69.5	913.2	915.6	2.40	-2.38	-1.20	
3,477.0	12.64	85.59	3,299.9	70.6	927.6	930.0	2.68	-2.68	-0.74	
3,540.0	11.16	85.67	3,361.6	71.5	940.5	943.0	2.35	-2.35	0.13	
3,603.0	9.66	83.73	3,423.5	72.6	951.8	954.4	2.44	-2.38	-3.08	
3,666.0	8.09	83.77	3,485.8	73.6	961.5	964.1	2.49	-2.49	0.06	
3,730.0	7.31	82.72	3,549.2	74.6	970.0	972.7	1.24	-1.22	-1.64	
3,793.0	6.98	85.28	3,611.7	75.5	977.8	980.5	0.73	-0.52	4.06	
3,856.0	6.33	81.83	3,674.3	76.3	985.1	987.8	1.21	-1.03	-5.48	
3,920.0	4.86	79.40	3,738.0	77.3	991.2	994.0	2.33	-2.30	-3.80	
3,982.0	3.98	78.96	3,799.8	78.2	995.9	998.7	1.42	-1.42	-0.71	
4,045.0	2.76	93.15	3,862.7	78.5	999.6	1,002.4	2.33	-1.94	22.52	

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Sooner 1E
Project:	SJB (NM Central)	TVD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Site:	SEC 21-T26N-R7W	MD Reference:	GL 6988' & KB 15' @ 7003.0ft (AWS 730)
Well:	Sooner 1E	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
4,108.0	2.67	101.57	3,925.6	78.1	1,002.5	1,005.3	0.65	-0.14	13.37	
4,171.0	2.14	96.65	3,988.6	77.7	1,005.1	1,007.9	0.90	-0.84	-7.81	
4,234.0	2.09	106.74	4,051.5	77.2	1,007.4	1,010.1	0.60	-0.08	16.02	
4,297.0	1.93	97.70	4,114.5	76.8	1,009.6	1,012.3	0.56	-0.25	-14.35	
4,359.0	1.91	105.70	4,176.4	76.3	1,011.6	1,014.3	0.43	-0.03	12.90	
4,423.0	1.46	108.03	4,240.4	75.8	1,013.4	1,016.0	0.71	-0.70	3.64	
4,486.0	1.60	102.10	4,303.4	75.4	1,015.0	1,017.6	0.34	0.22	-9.41	
4,549.0	1.65	101.85	4,366.4	75.0	1,016.8	1,019.4	0.08	0.08	-0.40	
4,612.0	1.12	105.29	4,429.4	74.6	1,018.2	1,020.8	0.85	-0.84	5.46	
4,676.0	1.05	101.65	4,493.3	74.4	1,019.4	1,022.0	0.15	-0.11	-5.69	
4,740.0	1.19	121.93	4,557.3	73.9	1,020.6	1,023.1	0.65	0.22	31.69	
Last SDI MWD Survey										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
390.0	390.0	2.7	0.3	First SDI MWD Survey	
4,740.0	4,557.3	73.9	1,020.6	Last SDI MWD Survey	

Checked By: _____ Approved By: _____ Date: _____