

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 W. Grand Avenue, Artesia, N.M. 80210

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

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

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

☐ AMENDED REPORT

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

AS DRILLED PLAT
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35162	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 36839	⁵ Property Name RHODA ABRAMS	⁶ Well Number 1 N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 5703'

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
1	5	30N	11W		1860'	SOUTH	1261'	EAST	SAN JUAN

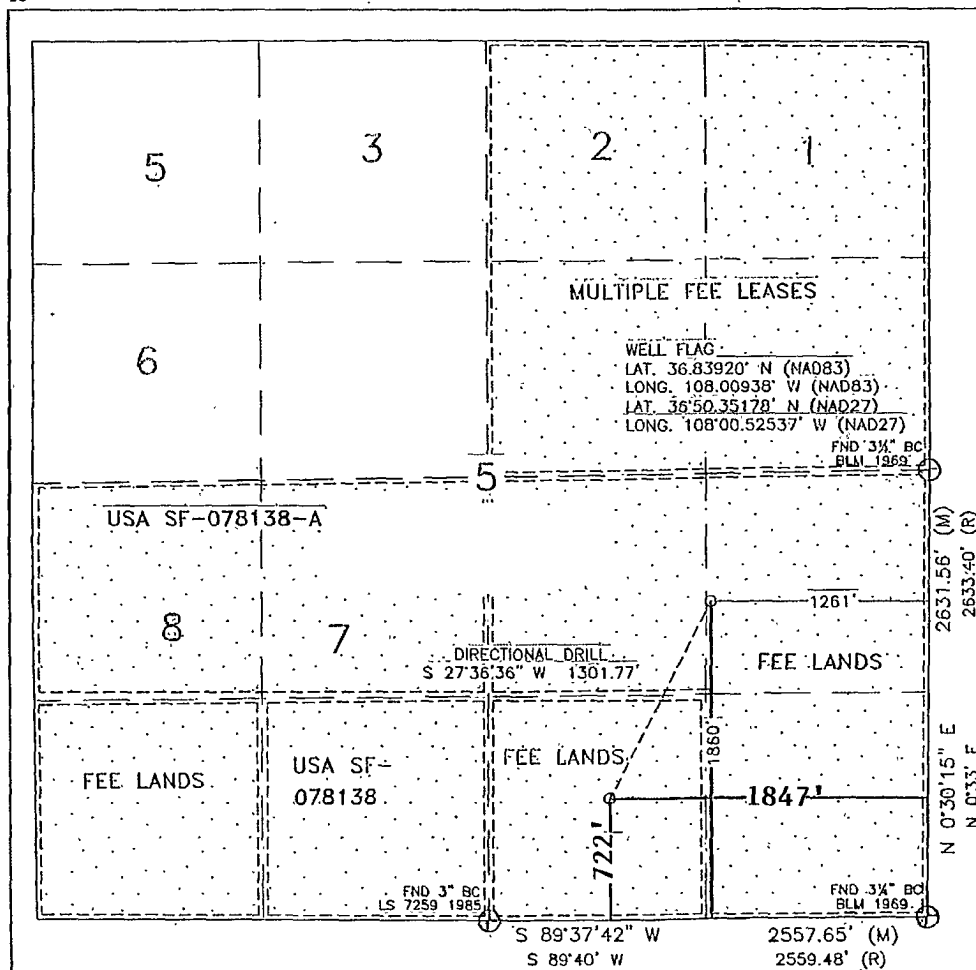
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	30N	11W		722'	SOUTH	1847'	EAST	SAN JUAN

¹² Dedicated Acres MV-319.71 Acres - (E/2) DK-318.83 Acres - (S/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

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 or a compulsory pooling order heretofore entered by the division.

Signature: *Marie E. Jaramillo* Date: *7/23/12*

Printed Name: **Marie E. Jaramillo 7/23/12**

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.

MARCH 3, 2009

Date of Survey

Signature and Seal of Professional Surveyor:

David Russell

DAVID RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

Certificate Number: **10201**

Operator CONOCOPHILLIPS COMPANY	Legal WellName RHODA ABRAMS #1N	API / UWI 3004535162	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 005-030N-011W-I	N/S Dist (ft) 1,860.00	N/S Ref FSL	E/W Dist (ft) 1,261.00	E/W Ref FEL

Survey Data					
Date	MD (ftKB)	Incl.(°)	Azm.(°)	Method	Survey Company
11/1/2011	0.00	0.00	0.00	IncAzi-MWD	Scientific Drilling
9/6/2011	129.00	0.50		Inc-Drop	MO-TE DRILLING INC.
9/6/2011	236.00	0.50		Inc-Drop	MO-TE DRILLING INC.
11/1/2011	269.00	0.70	353.94	IncAzi-MWD	Scientific Drilling
11/1/2011	330.00	0.17	19.98	IncAzi-MWD	Scientific Drilling
11/1/2011	391.00	0.41	222.04	IncAzi-MWD	Scientific Drilling
11/1/2011	452.00	1.39	211.06	IncAzi-MWD	Scientific Drilling
11/1/2011	513.00	2.80	210.38	IncAzi-MWD	Scientific Drilling
11/1/2011	574.00	3.88	208.89	IncAzi-MWD	Scientific Drilling
11/1/2011	635.00	5.44	209.42	IncAzi-MWD	Scientific Drilling
11/1/2011	696.00	6.66	214.84	IncAzi-MWD	Scientific Drilling
11/1/2011	758.00	7.06	209.87	IncAzi-MWD	Scientific Drilling
11/1/2011	819.00	8.83	207.62	IncAzi-MWD	Scientific Drilling
11/1/2011	883.00	10.93	206.57	IncAzi-MWD	Scientific Drilling
11/1/2011	915.00	12.02	208.41	IncAzi-MWD	Scientific Drilling
11/1/2011	979.00	13.31	208.12	IncAzi-MWD	Scientific Drilling
11/1/2011	1,044.00	14.75	207.87	IncAzi-MWD	Scientific Drilling
11/1/2011	1,108.00	16.77	206.66	IncAzi-MWD	Scientific Drilling
11/1/2011	1,173.00	18.50	206.79	IncAzi-MWD	Scientific Drilling
11/1/2011	1,237.00	20.21	207.67	IncAzi-MWD	Scientific Drilling
11/1/2011	1,302.00	21.85	208.05	IncAzi-MWD	Scientific Drilling
11/1/2011	1,366.00	23.46	208.18	IncAzi-MWD	Scientific Drilling
11/1/2011	1,430.00	24.71	208.57	IncAzi-MWD	Scientific Drilling
11/1/2011	1,495.00	26.70	209.80	IncAzi-MWD	Scientific Drilling
11/1/2011	1,560.00	27.33	209.61	IncAzi-MWD	Scientific Drilling
11/1/2011	1,624.00	27.79	210.13	IncAzi-MWD	Scientific Drilling
11/1/2011	1,689.00	27.82	207.91	IncAzi-MWD	Scientific Drilling
11/1/2011	1,753.00	27.92	207.15	IncAzi-MWD	Scientific Drilling
11/1/2011	1,817.00	28.08	206.23	IncAzi-MWD	Scientific Drilling
11/1/2011	1,882.00	27.25	204.62	IncAzi-MWD	Scientific Drilling
11/2/2011	1,946.00	26.76	204.18	IncAzi-MWD	Scientific Drilling
11/2/2011	2,011.00	25.90	203.69	IncAzi-MWD	Scientific Drilling
11/2/2011	2,075.00	25.27	201.95	IncAzi-MWD	Scientific Drilling
11/2/2011	2,204.00	25.63	201.99	IncAzi-MWD	Scientific Drilling
11/2/2011	2,268.00	24.42	205.08	IncAzi-MWD	Scientific Drilling
11/2/2011	2,333.00	24.67	205.41	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 (RKB)	Incl (%)	Azm (°)	Method	Survey Company
11/2/2011	2,397.00	24.97	204.87	IncAzi-MWD	Scientific Drilling
11/2/2011	2,462.00	24.77	205.62	IncAzi-MWD	Scientific Drilling
11/2/2011	2,526.00	24.11	205.23	IncAzi-MWD	Scientific Drilling
11/2/2011	2,591.00	23.74	207.02	IncAzi-MWD	Scientific Drilling
11/2/2011	2,655.00	23.78	209.01	IncAzi-MWD	Scientific Drilling
11/2/2011	2,719.00	22.66	208.39	IncAzi-MWD	Scientific Drilling
11/2/2011	2,784.00	23.25	208.40	IncAzi-MWD	Scientific Drilling
11/2/2011	2,848.00	23.02	207.79	IncAzi-MWD	Scientific Drilling
11/2/2011	2,913.00	22.64	207.41	IncAzi-MWD	Scientific Drilling
11/2/2011	2,978.00	22.48	207.08	IncAzi-MWD	Scientific Drilling
11/2/2011	3,042.00	22.97	208.20	IncAzi-MWD	Scientific Drilling
11/2/2011	3,107.00	24.18	209.36	IncAzi-MWD	Scientific Drilling
11/2/2011	3,171.00	22.70	207.85	IncAzi-MWD	Scientific Drilling
11/2/2011	3,236.00	22.49	207.13	IncAzi-MWD	Scientific Drilling
11/2/2011	3,301.00	23.65	207.70	IncAzi-MWD	Scientific Drilling
11/2/2011	3,365.00	22.18	207.62	IncAzi-MWD	Scientific Drilling
11/2/2011	3,430.00	21.59	205.87	IncAzi-MWD	Scientific Drilling
11/2/2011	3,494.00	21.50	206.94	IncAzi-MWD	Scientific Drilling
11/2/2011	3,559.00	22.33	207.37	IncAzi-MWD	Scientific Drilling
11/2/2011	3,623.00	22.93	208.96	IncAzi-MWD	Scientific Drilling
11/2/2011	3,687.00	22.29	210.32	IncAzi-MWD	Scientific Drilling
11/2/2011	3,752.00	19.39	211.45	IncAzi-MWD	Scientific Drilling
11/2/2011	3,816.00	17.29	211.42	IncAzi-MWD	Scientific Drilling
11/2/2011	3,881.00	15.30	211.32	IncAzi-MWD	Scientific Drilling
11/2/2011	3,945.00	14.17	208.12	IncAzi-MWD	Scientific Drilling
11/2/2011	4,010.00	12.33	207.52	IncAzi-MWD	Scientific Drilling
11/2/2011	4,074.00	10.36	206.54	IncAzi-MWD	Scientific Drilling
11/2/2011	4,139.00	7.76	203.29	IncAzi-MWD	Scientific Drilling
11/2/2011	4,203.00	6.00	204.47	IncAzi-MWD	Scientific Drilling
11/3/2011	4,268.00	4.93	208.46	IncAzi-MWD	Scientific Drilling
11/3/2011	4,294.00	4.09	204.78	IncAzi-MWD	Scientific Drilling
9/7/2011	7,097.00	0.50		Inc-Drop	Aztec Well Servicing Co Inc

I, the undersigned, certify that I acting in my capacity as Billie D. Swear 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.

Billie D. Swear

Subscribed and sworn to me this 7/23/12

Maria Jaramillo

Notary Public in and for San Juan County, New Mexico

My Commission expires 7/28/14



Scientific Drilling

ConocoPhillips

SJB (NM West)
SEC 05-T30N-R11W
Rhoda Abrams #1N

Original Hole

API # 3004535162

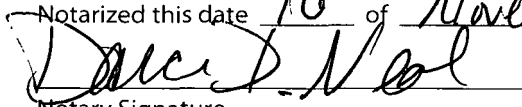
Design: Original Hole

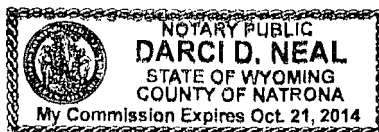
Standard Survey Report

16 November, 2011

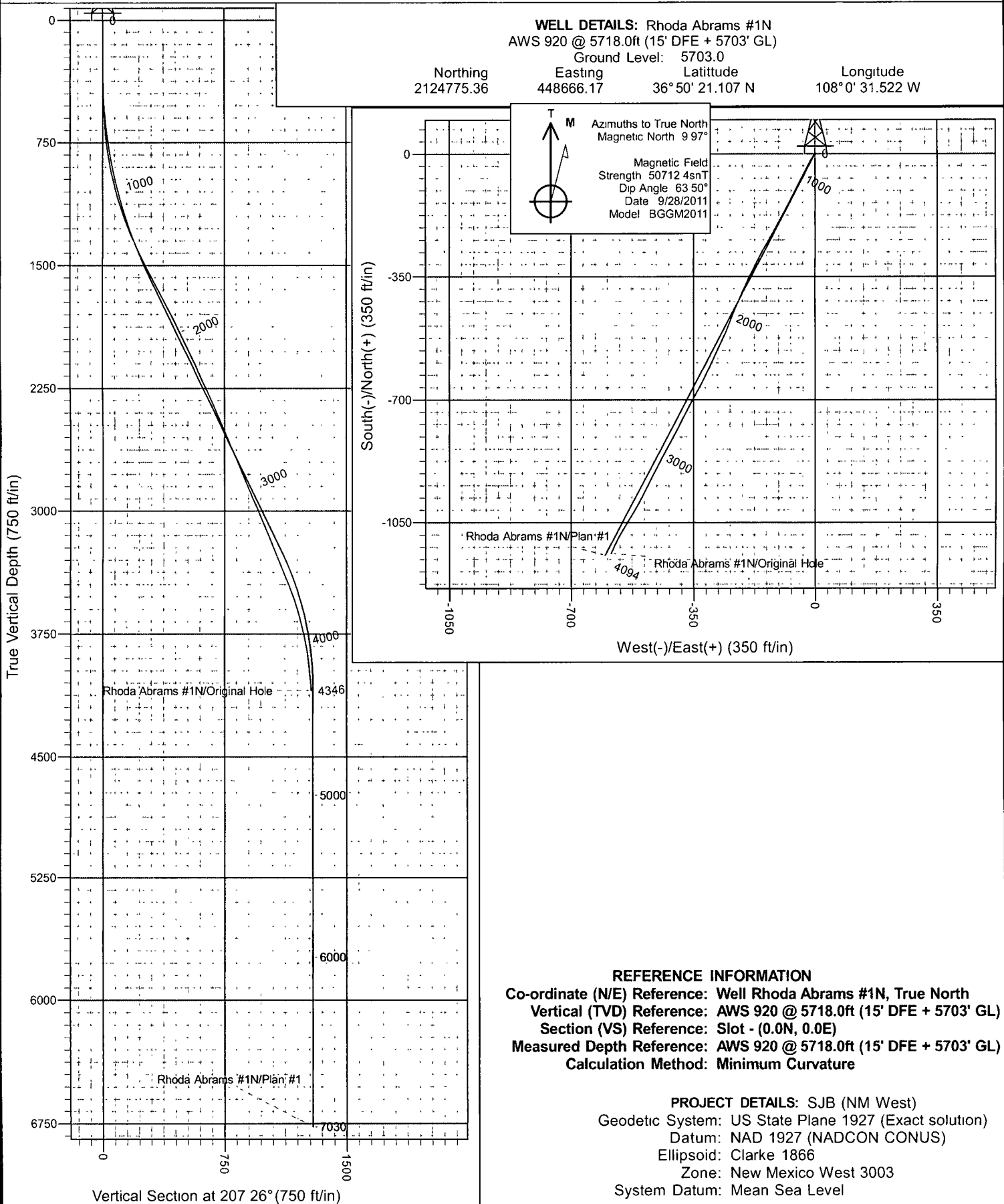
This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 16th of November 2011.


Notary Signature
County of Natrona
State of Wyoming



ConocoPhillips



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Rhoda Abrams #1N
Project:	SJB (NM West)	TVD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Site:	SEC 05-T30N-R11W	MD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Well:	Rhoda Abrams #1N	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 05-T30N-R11W		
Site Position:		Northing:	2,127,406.86 ft
From:	Lat/Long	Easting:	449,027.98 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 50' 47.135 N
		Longitude:	108° 0' 27.130 W
		Grid Convergence:	-0.10 °

Well	Rhoda Abrams #1N, S-Type MV/DK Well		
Well Position	+N-S	0.0 ft	Northing: 2,124,775.36 ft
	+E-W	0.0 ft	Easting: 448,666.17 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 50' 21.107 N
		Longitude:	108° 0' 31.522 W
		Ground Level:	5,703.0 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	9/28/2011	9.97	63.50	50,712

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	207.26

Survey Program	Date	11/16/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
269.0	4,346.0	Survey #1 (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
269.0	0.70	353.94	269.0	1.6	-0.2	-1.4	0.26	0.26	0.00
First SDI MWD Survey									
330.0	0.17	19.98	330.0	2.1	-0.2	-1.8	0.91	-0.87	42.69
391.0	0.41	222.04	391.0	2.0	-0.3	-1.7	0.94	0.39	-258.92
452.0	1.39	211.06	452.0	1.2	-0.8	-0.7	1.62	1.61	-18.00
513.0	2.80	210.38	512.9	-0.7	-2.0	1.5	2.31	2.31	-1.11
574.0	3.88	208.89	573.8	-3.8	-3.7	5.1	1.78	1.77	-2.44
635.0	5.44	209.42	634.6	-8.1	-6.1	10.0	2.56	2.56	0.87
696.0	6.66	214.84	695.3	-13.5	-9.6	16.4	2.21	2.00	8.89
758.0	7.06	209.87	756.8	-19.8	-13.5	23.8	1.15	0.65	-8.02
819.0	8.83	207.62	817.3	-27.2	-17.6	32.2	2.95	2.90	-3.69
883.0	10.93	206.57	880.3	-37.0	-22.6	43.2	3.29	3.28	-1.64

Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Rhoda Abrams #1N
Project:	SJB (NM West)	TVD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Site:	SEC 05-T30N-R11W	MD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Well:	Rhoda Abrams #1N	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)
915.0	12.02	208.41	911.7	-42.6	-25.5	49.6	3.59	3.41	5.75
979.0	13.31	208.12	974.1	-55.0	-32.1	63.6	2.02	2.02	-0.45
1,044.0	14.75	207.87	1,037.2	-68.9	-39.5	79.4	2.22	2.22	-0.38
1,108.0	16.77	206.66	1,098.8	-84.4	-47.5	96.7	3.20	3.16	-1.89
1,173.0	18.50	206.79	1,160.7	-101.9	-56.3	116.4	2.66	2.66	0.20
1,237.0	20.21	207.67	1,221.1	-120.8	-66.1	137.6	2.71	2.67	1.38
1,302.0	21.85	208.05	1,281.8	-141.4	-77.0	161.0	2.53	2.52	0.58
1,366.0	23.46	208.18	1,340.8	-163.2	-88.6	185.6	2.52	2.52	0.20
1,430.0	24.71	208.57	1,399.2	-186.1	-101.0	211.7	1.97	1.95	0.61
1,495.0	26.70	209.80	1,457.8	-210.7	-114.7	239.9	3.17	3.06	1.89
1,560.0	27.33	209.61	1,515.7	-236.4	-129.4	269.4	0.98	0.97	-0.29
1,624.0	27.79	210.13	1,572.4	-262.1	-144.1	299.0	0.81	0.72	0.81
1,689.0	27.82	207.91	1,629.9	-288.6	-158.8	329.3	1.59	0.05	-3.42
1,753.0	27.92	207.15	1,686.5	-315.1	-172.7	359.2	0.58	0.16	-1.19
1,817.0	28.08	206.23	1,743.0	-341.9	-186.1	389.2	0.72	0.25	-1.44
1,882.0	27.25	204.62	1,800.6	-369.2	-199.1	419.4	1.72	-1.28	-2.48
1,946.0	26.76	204.18	1,857.6	-395.7	-211.1	448.4	0.83	-0.77	-0.69
2,011.0	25.90	203.69	1,915.9	-422.0	-222.8	477.2	1.36	-1.32	-0.75
2,075.0	25.27	201.95	1,973.6	-447.5	-233.5	504.7	1.53	-0.98	-2.72
2,204.0	25.63	201.99	2,090.1	-498.9	-254.3	559.9	0.28	0.28	0.03
2,268.0	24.42	205.08	2,148.1	-523.7	-265.1	587.0	2.78	-1.89	4.83
2,333.0	24.67	205.41	2,207.2	-548.1	-276.6	613.9	0.44	0.38	0.51
2,397.0	24.97	204.87	2,265.3	-572.5	-288.0	640.8	0.59	0.47	-0.84
2,462.0	24.77	205.62	2,324.3	-597.2	-299.7	668.1	0.57	-0.31	1.15
2,526.0	24.11	205.23	2,382.5	-621.1	-311.0	694.6	1.06	-1.03	-0.61
2,591.0	23.74	207.02	2,441.9	-644.8	-322.6	720.9	1.25	-0.57	2.75
2,655.0	23.78	209.01	2,500.5	-667.5	-334.7	746.7	1.25	0.06	3.11
2,719.0	22.66	208.39	2,559.3	-689.6	-346.9	771.9	1.79	-1.75	-0.97
2,784.0	23.25	208.40	2,619.2	-711.9	-358.9	797.3	0.91	0.91	0.02
2,848.0	23.02	207.79	2,678.0	-734.1	-370.8	822.4	0.52	-0.36	-0.95
2,913.0	22.64	207.41	2,738.0	-756.5	-382.4	847.6	0.63	-0.58	-0.58
2,978.0	22.48	207.08	2,798.0	-778.7	-393.9	872.6	0.31	-0.25	-0.51
3,042.0	22.97	208.20	2,857.0	-800.6	-405.3	897.3	1.02	0.77	1.75
3,107.0	24.18	209.36	2,916.6	-823.3	-417.8	923.3	1.99	1.86	1.78
3,171.0	22.70	207.85	2,975.3	-845.7	-430.0	948.7	2.50	-2.31	-2.36
3,236.0	22.49	207.13	3,035.3	-867.8	-441.6	973.7	0.53	-0.32	-1.11
3,301.0	23.65	207.70	3,095.1	-890.4	-453.3	999.2	1.82	1.78	0.88
3,365.0	22.18	207.62	3,154.1	-912.5	-464.9	1,024.1	2.30	-2.30	-0.13
3,430.0	21.59	205.87	3,214.4	-934.1	-475.8	1,048.3	1.35	-0.91	-2.69
3,494.0	21.50	206.94	3,273.9	-955.2	-486.2	1,071.8	0.63	-0.14	1.67
3,559.0	22.33	207.37	3,334.2	-976.8	-497.3	1,096.1	1.30	1.28	0.66
3,623.0	22.93	208.96	3,393.3	-998.5	-508.9	1,120.7	1.34	0.94	2.48
3,687.0	22.29	210.32	3,452.4	-1,019.9	-521.1	1,145.3	1.29	-1.00	2.13
3,752.0	19.39	211.45	3,513.1	-1,039.7	-532.9	1,168.3	4.50	-4.46	1.74
3,816.0	17.29	211.42	3,573.8	-1,056.9	-543.4	1,188.4	3.28	-3.28	-0.05
3,881.0	15.30	211.32	3,636.2	-1,072.5	-552.9	1,206.6	3.06	-3.06	-0.15
3,945.0	14.17	208.12	3,698.1	-1,086.6	-561.0	1,222.9	2.18	-1.77	-5.00
4,010.0	12.33	207.52	3,761.4	-1,099.8	-568.0	1,237.8	2.84	-2.83	-0.92
4,074.0	10.36	206.54	3,824.1	-1,111.0	-573.7	1,250.4	3.09	-3.08	-1.53
4,139.0	7.76	203.29	3,888.3	-1,120.2	-578.1	1,260.6	4.08	-4.00	-5.00
4,203.0	6.00	204.47	3,951.9	-1,127.2	-581.2	1,268.2	2.76	-2.75	1.84
4,268.0	4.93	208.46	4,016.6	-1,132.8	-583.9	1,274.4	1.75	-1.65	6.14
4,294.0	4.09	204.78	4,042.5	-1,134.6	-584.8	1,276.5	3.42	-3.23	-14.15

Last SDI MWD Survey



Scientific Drilling
Survey Report



Company:	ConocoPhillips	Local Co-ordinate Reference:	Well Rhoda Abrams #1N
Project:	SJB (NM West)	TVD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Site:	SEC 05-T30N-R11W	MD Reference:	AWS 920 @ 5718.0ft (15' DFE + 5703' GL)
Well:	Rhoda Abrams #1N	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)
4,346.0	4.09	204.78	4,094.4	-1,138.0	-586.4	1,280.2	0.00	0.00	0.00
Projection to TD									

Checked By: _____	Approved By: _____	Date: _____
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