

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102

Revised October 12, 2005

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RCVD OCT 28 '09

☒ AMENDED REPORT

OIL CONS. DIV.

DIST. 3

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30754	² Pool Code 97232 / 72319 / 71599	³ Pool Name BASIN MANCOS / BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 20D
⁷ OGRID No. 120782	⁸ Operator Name WILLIAMS PRODUCTION COMPANY	⁹ Elevation 6368'

¹⁰ Surface Location

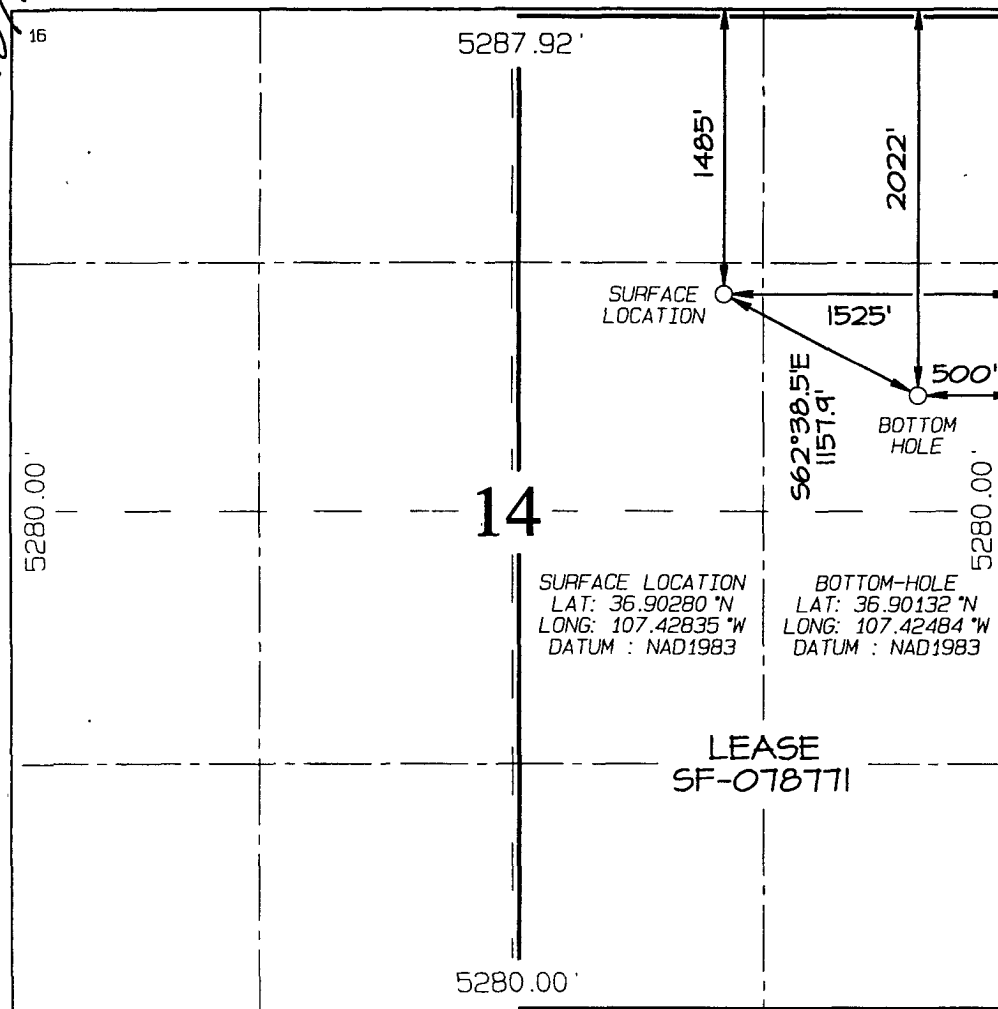
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	31N	6W		1485	NORTH	1525	EAST	RIO ARRIBA

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
H	14	31N	6W		2022	NORTH	500	EAST	RIO ARRIBA

¹² Dedicated Acres 320.0 Acres - (E/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



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

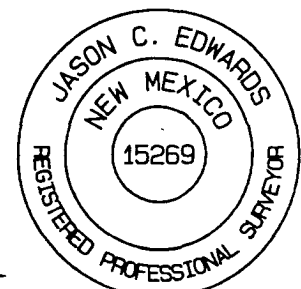
Heather Riley *10/28/09*
Signature Date
Heather Riley
Printed Name

¹⁸ SURVEYOR CERTIFICATION

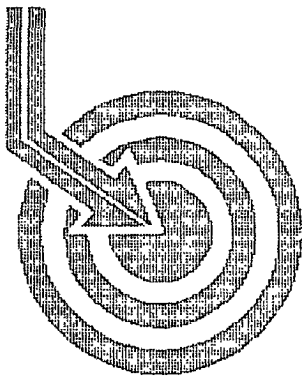
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

Date Revised: OCTOBER 23, 2009
Survey Date: NOVEMBER 21, 2008

Signature and Seal of Professional Surveyor



Jason C. Edwards
Certificate Number 15269



50-039-30754

Scientific Drilling

WILLIAMS PRODUCTION

Field: Rosa
Site: Rio Arriba County, NM
Well: Rosa Unit #20D
Wellpath: VH - Job #33K0909158
Survey: 09/09/09

RCVD OCT 21 '09

OIL CONS. DIV.

DIST. 3

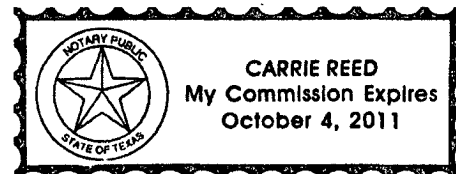
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*L. Wharton*..... Company Representative

Notorized this date 6th of October, 2009.

Carrie Reed

Notary Signature
County of Midland
State of Texas





Scientific Drilling International

Survey Report

Company: WILLIAMS PRODUCTION
Field: Rosa
Site: Rio Arriba County, NM
Well: Rosa Unit #20D
Wellpath: VH - Job #33K0909158

Date: 09/18/2009 Time: 14:33:07 Page: 1
Co-ordinate(NE) Reference: Site: Rio Arriba County, NM. True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,117.66Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/09/09
KSRG 0'-8310'

Start Date: 09/09/2009

Company: Scientific Drilling Internatio
Tool: KSRG;Keeper Gyro

Engineer: Richey/Clifton w/Basin
Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.35	331.23	100.00	-0.25	0.27	-0.15	0.35	0.31	331.23
200.00	0.34	299.81	200.00	-0.81	0.68	-0.55	0.19	0.88	321.08
300.00	0.53	298.21	299.99	-1.56	1.05	-1.22	0.19	1.61	310.77
400.00	1.07	293.09	399.98	-2.96	1.63	-2.48	0.54	2.97	303.35
500.00	3.95	117.51	499.92	-0.44	0.41	-0.29	5.02	0.50	325.03
600.00	8.06	108.84	599.35	9.93	-3.45	9.41	4.20	10.02	110.13
700.00	12.21	112.13	697.77	27.40	-9.70	25.85	4.19	27.61	110.57
800.00	16.12	115.28	794.71	51.80	-19.61	48.20	3.98	52.04	112.14
900.00	21.30	118.07	889.40	83.86	-34.10	76.80	5.26	84.03	113.94
1000.00	23.19	119.26	981.95	121.70	-52.27	110.01	1.94	121.80	115.41
1100.00	24.08	116.65	1073.57	161.78	-71.05	145.42	1.37	161.85	116.04
1200.00	24.42	115.72	1164.74	202.84	-89.17	182.28	0.51	202.92	116.07
1300.00	23.84	116.65	1256.00	243.71	-107.20	218.96	0.69	243.80	116.09
1400.00	23.11	118.17	1347.73	283.54	-125.53	254.33	0.95	283.62	116.27
1500.00	22.89	118.06	1439.78	322.61	-143.95	288.79	0.22	322.68	116.49
1600.00	23.07	118.44	1531.84	361.65	-162.42	323.18	0.23	361.70	116.68
1700.00	23.47	118.98	1623.71	401.15	-181.40	357.83	0.45	401.18	116.88
1800.00	24.07	120.24	1715.23	441.43	-201.32	392.87	0.79	441.45	117.13
1900.00	23.43	124.27	1806.76	481.55	-222.79	426.92	1.74	481.55	117.56
2000.00	23.66	121.27	1898.44	521.33	-244.40	460.50	1.22	521.34	117.96
2100.00	24.16	117.46	1989.86	561.82	-264.25	495.81	1.62	561.83	118.06
2200.00	24.37	117.49	2081.03	602.92	-283.21	532.27	0.21	602.93	118.02
2300.00	23.13	116.54	2172.56	643.19	-301.51	568.15	1.30	643.20	117.95
2400.00	23.52	112.82	2264.39	682.71	-318.03	604.11	1.52	682.71	117.76
2500.00	23.24	114.02	2356.18	722.28	-333.80	640.52	0.55	722.28	117.53
2600.00	23.74	115.91	2447.89	762.09	-350.63	676.65	0.90	762.10	117.39
2700.00	22.77	117.14	2539.77	801.56	-368.25	711.98	1.08	801.57	117.35
2800.00	20.45	120.18	2632.74	838.37	-385.86	744.31	2.58	838.38	117.40
2900.00	18.83	119.03	2726.92	871.96	-402.48	773.52	1.67	871.97	117.49
3000.00	17.17	118.53	2822.02	902.86	-417.36	800.60	1.67	902.86	117.53
3100.00	17.54	119.94	2917.47	932.67	-431.93	826.63	0.56	932.67	117.59
3200.00	14.50	118.40	3013.57	960.25	-445.41	850.70	3.07	960.25	117.64
3300.00	11.01	118.99	3111.09	982.32	-455.99	870.07	3.49	982.32	117.66
3400.00	8.72	118.15	3209.60	999.45	-464.20	885.11	2.29	999.45	117.67
3500.00	8.35	114.79	3308.50	1014.28	-470.82	898.39	0.62	1014.28	117.66
3600.00	6.34	119.25	3407.67	1027.06	-476.56	909.80	2.09	1027.06	117.65
3700.00	4.48	115.30	3507.22	1036.48	-480.93	918.15	1.90	1036.48	117.65
3800.00	3.03	121.73	3607.01	1043.02	-483.99	923.93	1.51	1043.02	117.65
3900.00	0.78	149.12	3706.95	1046.24	-485.96	926.52	2.36	1046.24	117.68
4000.00	0.57	176.85	3806.94	1047.07	-487.05	926.90	0.38	1047.07	117.72
4100.00	0.53	208.76	3906.94	1047.32	-487.95	926.71	0.30	1047.32	117.77
4200.00	0.57	197.28	4006.93	1047.40	-488.83	926.34	0.12	1047.40	117.82
4300.00	5.41	106.74	4106.78	1052.12	-490.66	930.71	5.45	1052.12	117.80
4400.00	10.72	108.85	4205.76	1065.95	-495.03	944.03	5.32	1065.95	117.67
4500.00	10.59	121.84	4304.05	1084.31	-502.88	960.64	2.40	1084.31	117.63
4600.00	7.77	129.16	4402.76	1100.10	-512.00	973.69	3.05	1100.10	117.74
4700.00	6.43	122.76	4501.99	1112.30	-519.30	983.64	1.55	1112.31	117.83
4800.00	6.49	116.58	4601.36	1123.53	-524.86	993.41	0.70	1123.54	117.85



Scientific Drilling International Survey Report

Company: WILLIAMS PRODUCTION	Date: 09/18/2009	Time: 14:33:07	Page: 2
Field: Rosa	Co-ordinate(NE) Reference:	Site: Rio Arriba County, NM, True North	
Site: Rio Arriba County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Rosa Unit #20D	Section (VS) Reference:	Well (0.00N,0.00E,117.66Azi)	
Wellpath: VH - Job #33K0909158	Survey Calculation Method:	Minimum Curvature	
		Db:	Sybase

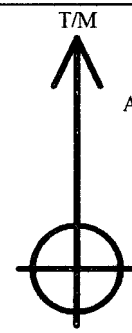
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/V ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	3.95	118.44	4700.93	1132.62	-529.03	1001.49	2.55	1132.63	117.84
5000.00	2.69	122.50	4800.77	1138.41	-531.93	1006.50	1.28	1138.41	117.86
5100.00	1.17	142.74	4900.71	1141.67	-534.00	1009.10	1.64	1141.68	117.89
5200.00	1.15	132.06	5000.69	1143.57	-535.49	1010.46	0.22	1143.58	117.92
5300.00	1.38	152.48	5100.66	1145.53	-537.23	1011.76	0.50	1145.54	117.97
5400.00	1.31	152.90	5200.63	1147.45	-539.31	1012.84	0.07	1147.47	118.03
5500.00	0.64	237.81	5300.62	1148.10	-540.63	1012.89	1.41	1148.14	118.09
5600.00	0.79	263.58	5400.62	1147.25	-541.00	1011.73	0.35	1147.29	118.13
5700.00	0.81	247.63	5500.61	1146.23	-541.35	1010.39	0.22	1146.27	118.18
5800.00	0.97	197.12	5600.60	1145.93	-542.43	1009.49	0.77	1145.99	118.25
5900.00	0.75	245.89	5700.59	1145.68	-543.50	1008.64	0.74	1145.75	118.32
6000.00	0.45	298.42	5800.58	1144.88	-543.58	1007.70	0.60	1144.96	118.34
6100.00	0.42	248.96	5900.58	1144.24	-543.53	1007.01	0.36	1144.33	118.36
6200.00	0.29	283.08	6000.58	1143.76	-543.60	1006.42	0.24	1143.85	118.38
6300.00	0.84	255.38	6100.57	1142.97	-543.73	1005.47	0.60	1143.07	118.40
6400.00	0.82	290.31	6200.56	1141.72	-543.67	1004.08	0.50	1141.82	118.43
6500.00	0.42	249.51	6300.56	1140.76	-543.55	1003.07	0.57	1140.87	118.45
6600.00	0.75	263.01	6400.55	1139.98	-543.75	1002.08	0.36	1140.10	118.49
6700.00	0.59	223.77	6500.54	1139.30	-544.21	1001.07	0.47	1139.43	118.53
6800.00	1.54	266.48	6600.53	1138.01	-544.66	999.37	1.18	1138.16	118.59
6900.00	0.47	321.28	6700.51	1136.48	-544.42	997.78	1.33	1136.64	118.62
7000.00	0.15	130.77	6800.51	1136.23	-544.19	997.62	0.62	1136.39	118.61
7100.00	0.90	316.63	6900.51	1135.62	-543.70	997.18	1.05	1135.77	118.60
7200.00	2.56	170.55	7000.48	1136.22	-545.34	997.01	3.34	1136.40	118.68
7300.00	2.18	169.60	7100.39	1138.74	-549.41	997.72	0.38	1138.99	118.84
7400.00	0.93	165.53	7200.36	1140.46	-552.07	998.26	1.25	1140.75	118.94
7500.00	0.20	254.72	7300.35	1140.88	-552.90	998.30	0.95	1141.18	118.98
7600.00	0.57	226.70	7400.35	1140.59	-553.28	997.77	0.40	1140.90	119.01
7700.00	1.48	94.51	7500.34	1141.61	-553.73	998.69	1.91	1141.93	119.01
7800.00	3.00	77.87	7600.26	1144.81	-553.28	1002.54	1.64	1145.08	118.89
7900.00	4.94	57.97	7700.02	1148.99	-550.45	1008.75	2.35	1149.16	118.62
8000.00	3.07	68.55	7799.77	1152.92	-547.18	1014.89	2.00	1153.00	118.33
8100.00	2.89	63.63	7899.64	1156.15	-545.08	1019.64	0.31	1156.19	118.13
8200.00	2.54	23.73	7999.53	1157.48	-541.93	1022.79	1.88	1157.50	117.92
8300.00	2.88	23.42	8099.42	1157.15	-537.60	1024.68	0.34	1157.15	117.68
8311.00	3.08	15.89	8110.41	1157.07	-537.06	1024.87	3.99	1157.07	117.66



Scientific
Drilling

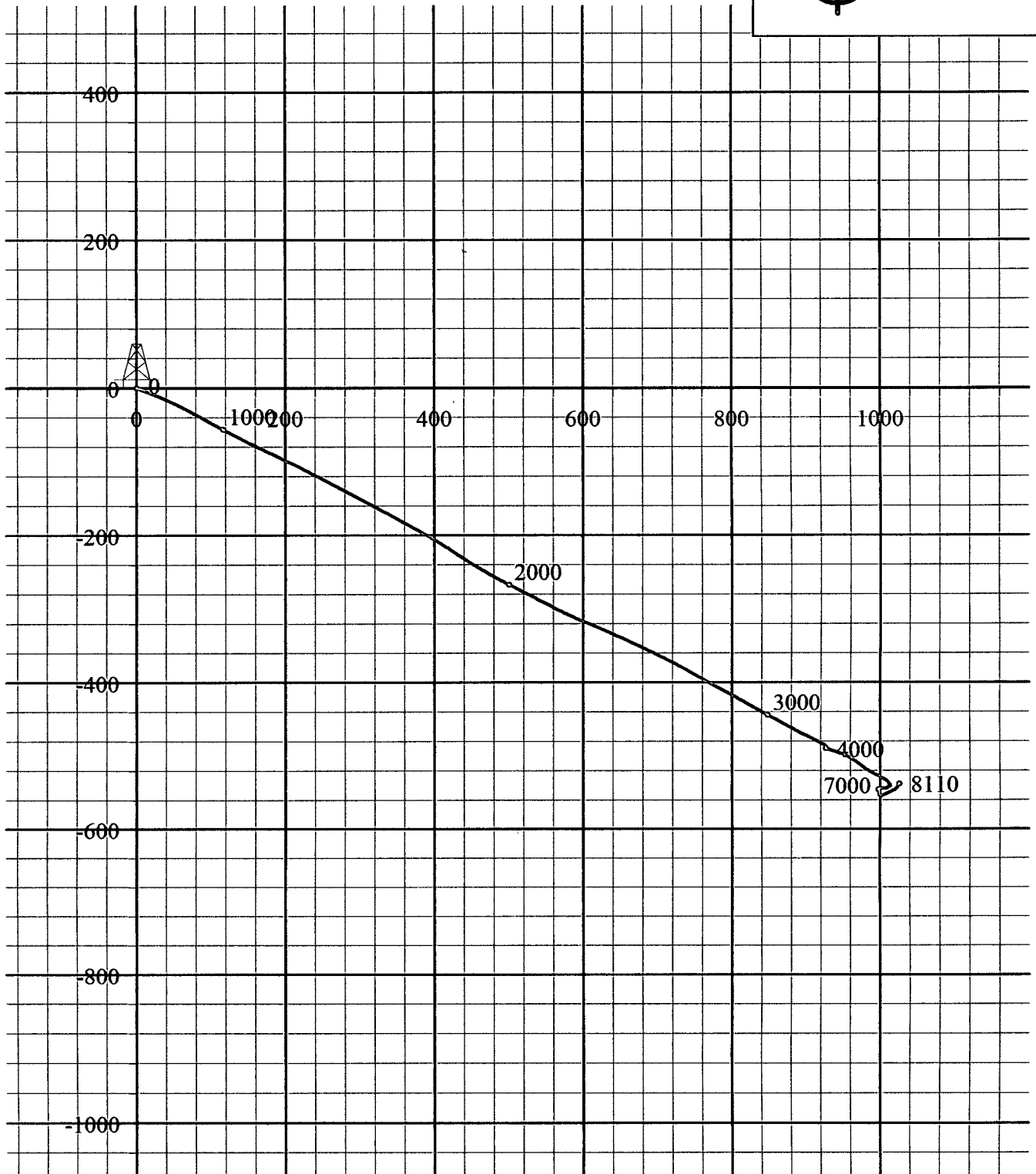
Field: Rosa
Site: Rio Arriba County, NM
Well: Rosa Unit #20D
Wellpath: VH - Job #33K0909158
Survey: 09/09/09



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 09/18/2009
Model: igrf2000

South(-)/North(+) [200ft/in]



West(-)/East(+) [200ft/in]