

RECEIVED

Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

AUG 23 2011

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2 Name of Operator

Williams Production Company, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-634-4208

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sur 2254' FSL & 752' FEL, BHL 22' FSL & 2013' FEL, sec 34, T32N, R6W

5 Lease Serial No
NMSF-078772

6 If Indian, Allottee or Tribe Name

7 If Unit of CA/Agreement, Name and/or No.
Rosa Unit

8. Well Name and No.
Rosa Unit COM #329A

9 API Well No
30-039-29398

10. Field and Pool or Exploratory Area
Basin Fruitland Coal

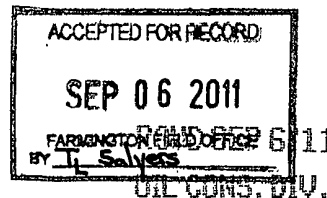
11 Country or Parish, State
Rio Arriba

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other <u>BHL ADJUSTED</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams Production would like to update the adjusted BHL on this well. Due to surveyed data per attached As-Drilled Plat.



14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Larry Higgins

Title Permit Supervisor

Signature

Larry Higgins

Date 8/22/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

RCVD SEP 6 '11

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCD A

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-2939 E	*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT COM	*Well Number 329A
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6315'

¹⁰ Surface Location

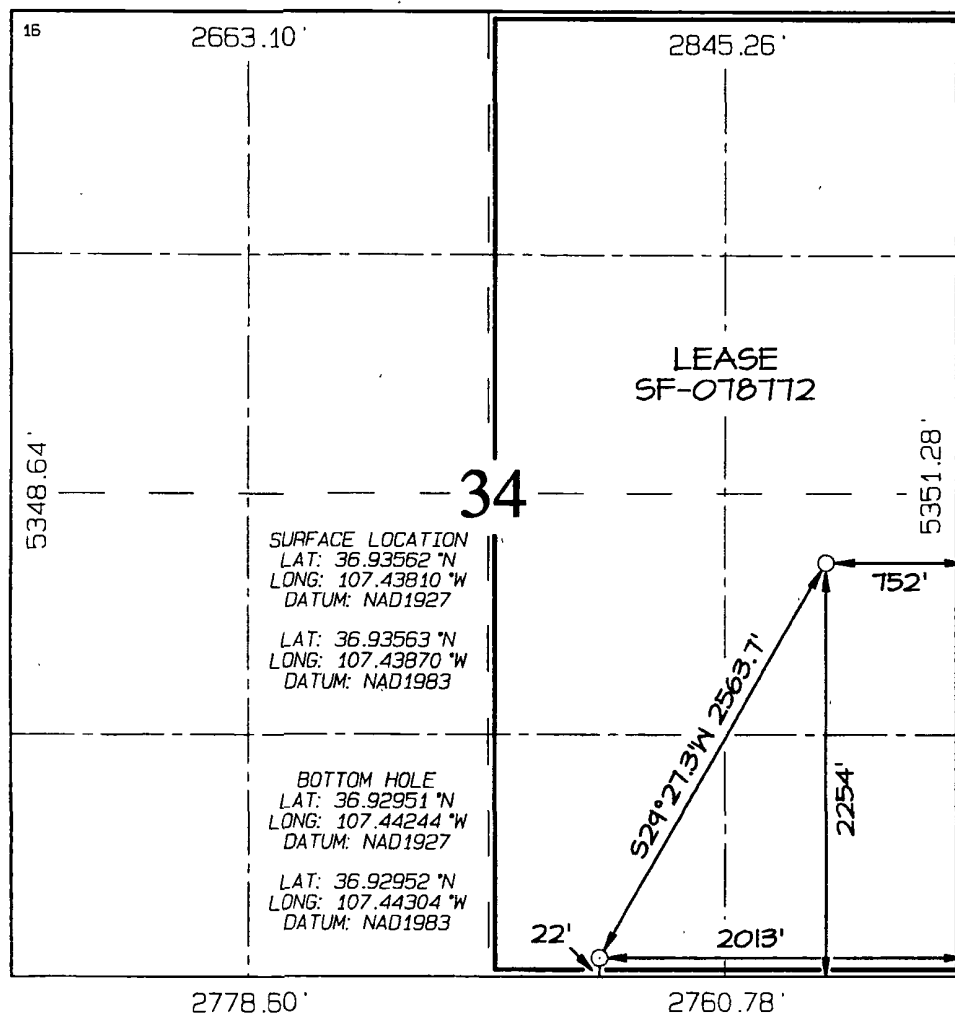
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	32N	6W		2254	SOUTH	752	EAST	RIO ARriba

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
0	34	32N	6W		22	SOUTH	2013	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.

Larry Higgins 8-22-11
Signature Date
Larry Higgins
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: AUGUST 11, 2011
Date of Survey: APRIL 25, 2011

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



Williams Energy

Rosa Unit #329A STK
Sec34 T32N-R6W - 329A

Rio Arriba Co. NM

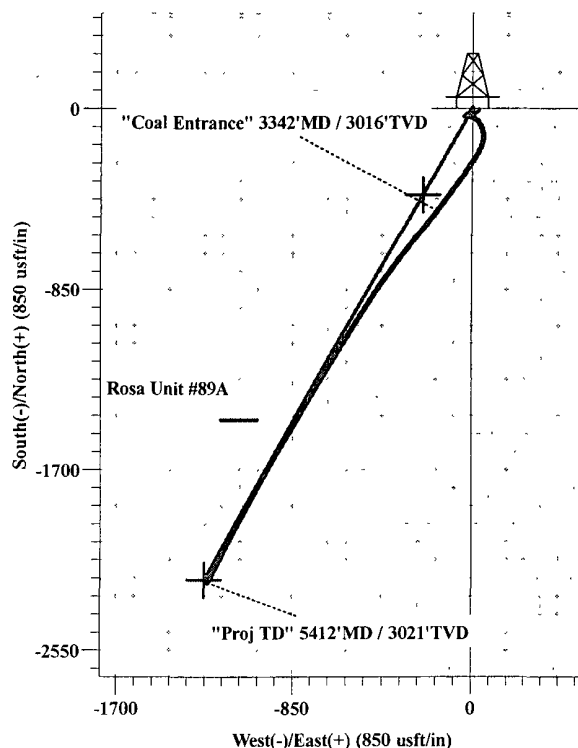
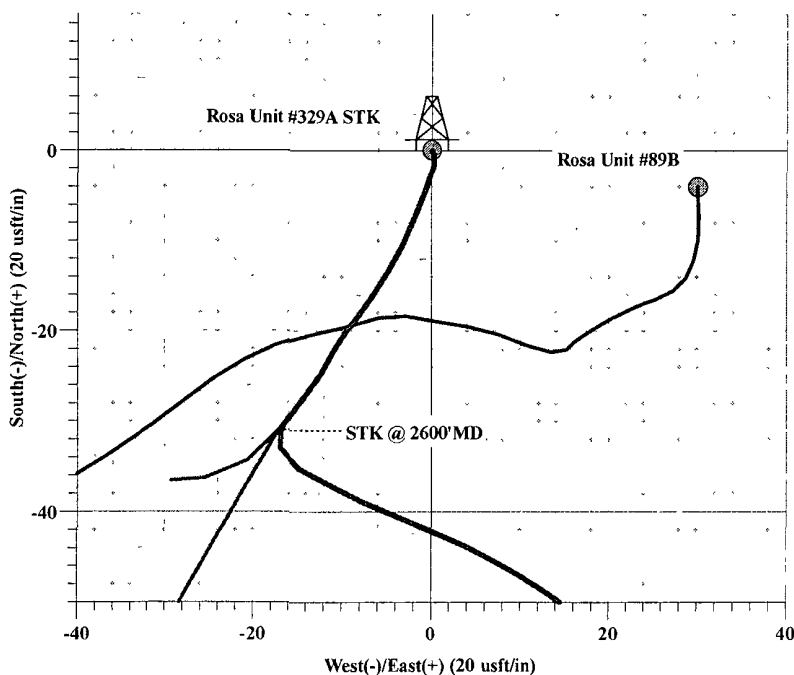
GL: 6692' KB: 14'

PATHFINDER®

A Schlumberger Company

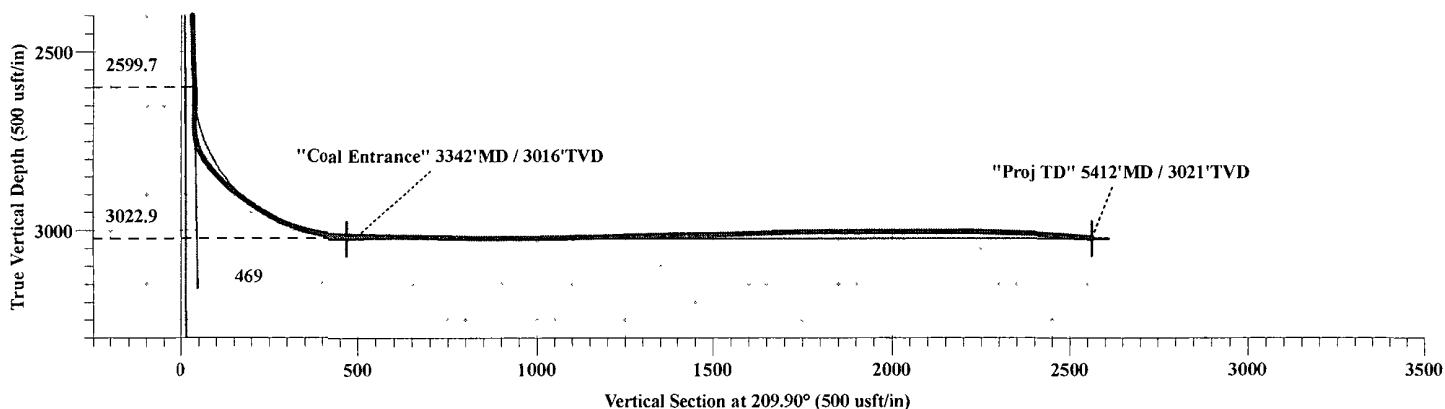
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-329	3023 0	-406 2	-233 8	2161555 94	152524 38	Point
TD-329	3023 0	-2221 0	-1277.4	2159754 30	151458 21	Point



WELL DETAILS: Rosa Unit #329A STK

Northing	Easting	Latitude	Longitude
2161959.20	152763 23	36° 56' 8 232 N	107° 26' 17 160 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSec	Target
2600 0	1 35	214 75	2599 7	-31 0	-17 1	0 00	0 00	35 4	
3270 6	90 00	209 90	3022 9	-406 2	-233 8	13 22	-4 85	468 7	
5364 1	90 00	209 90	3023 0	-2221 0	-1277 4	0 00	0 00	2562 2	TD-329

Plan: Design #2 (Rosa Unit #329A STK/STK)

Created By: Frank C. Scardino

Date: 7/22/2011

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec34 T32N-R6W - 329A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6329 0usft (Original Well Elev)
Site:	Sec34 T32N-R6W - 329A	MD Reference:	WELL @ 6329 0usft (Original Well Elev)
Well:	Rosa Unit #329A STK	North Reference:	True
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000-1 Single User Db

Project	Rio Arriba Co NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	Sec34 T32N-R6W - 329A				
Site Position:		Northing:	2,161,959 19 usft	Latitude:	36° 56' 8.232 N
From:	Lat/Long	Easting:	152,763 23 usft	Longitude:	107° 26' 17.160 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.71 °

Well	Rosa Unit #329A STK					
Well Position	+N-S	0 0 usft	Northing:	2,161,959 19 usft	Latitude:	36° 56' 8.232 N
	+E-W	0 0 usft	Easting:	152,763 23 usft	Longitude:	107° 26' 17.160 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	6,315 0 usft

Wellbore STK

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/13/11	9 78	63 69	50,891

Design STK

Audit Notes:

Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 0
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Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0 0	0 0	0 0	209 90

Survey Program Date 08/08/11

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 0	5,412 0	Survey #1 (STK)	MWD	MWD - Standard

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
200 0	0 30	156 00	200 0	-0 5	0 2	0 3	0 15	0 15	0 00
400 0	0 48	191 81	400 0	-1 8	0 3	1 4	0 15	0 09	17 91
600 0	0 84	201 40	600 0	-4 0	-0 5	3 7	0 19	0 18	4 80
800 0	1 09	202 20	800 0	-7 1	-1 7	7 0	0 13	0 13	0 40
1,000 0	1 07	206 05	999 9	-10 5	-3 2	10 7	0 04	-0 01	1 93
1,200 0	0 90	212 57	1,199 9	-13 5	-4 9	14 2	0 10	-0 09	3 26
1,400 0	0 84	212 84	1,399 9	-16 1	-6 6	17 2	0 03	-0 03	0 14
1,600 0	0 75	218 65	1,599 8	-18.3	-8 2	20 0	0 06	-0 05	2.91
1,800 0	0 68	215 28	1,799 8	-20 3	-9 7	22 4	0 04	-0 04	-1 69

Survey Report

Company: Williams Energy
Project: Rio Arriba Co NM
Site: Sec34 T32N-R6W - 329A
Well: Rosa Unit #329A STK
Wellbore: STK
Design: STK

Local Co-ordinate Reference: Site Sec34-T32N-R6W - 329A
TVD Reference: WELL @ 6329.0usft (Original Well Elev)
MD Reference: WELL @ 6329.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User 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)
2,000.0	0.73	209.56	1,999.8	-22.4	-11.0	24.9	0.04	0.03	-2.86
2,200.0	0.89	209.51	2,199.8	-24.9	-12.4	27.7	0.08	0.08	-0.03
2,400.0	1.11	222.62	2,399.8	-27.6	-14.5	31.2	0.16	0.11	6.56
2,493.0	1.40	211.00	2,492.7	-29.3	-15.6	33.2	0.41	0.31	-12.49
2,525.0	1.30	220.40	2,524.7	-29.9	-16.1	33.9	0.76	-0.31	29.38
2,557.0	3.55	211.36	2,556.7	-31.0	-16.8	35.3	7.11	7.03	-28.25
2,590.0	4.17	158.24	2,589.6	-33.0	-16.9	37.0	10.59	1.88	-160.97
2,620.0	8.18	126.79	2,619.5	-35.3	-14.8	38.0	17.02	13.37	-104.83
2,658.0	16.36	112.53	2,656.6	-39.0	-7.7	37.6	22.80	21.53	-37.53
2,686.0	22.95	112.16	2,682.9	-42.5	1.0	36.4	23.54	23.54	-1.32
2,718.0	28.49	123.41	2,711.8	-49.1	13.2	36.0	23.01	17.31	35.16
2,750.0	33.77	136.12	2,739.2	-59.7	25.7	39.0	26.27	16.50	39.72
2,782.0	38.34	147.37	2,765.1	-74.5	37.3	46.0	25.09	14.28	35.16
2,813.0	41.24	159.80	2,788.9	-92.3	46.0	57.0	27.27	9.35	40.10
2,845.0	43.26	170.35	2,812.6	-113.0	51.5	72.3	23.03	6.31	32.97
2,877.0	45.02	180.82	2,835.6	-135.1	53.2	90.7	23.42	5.50	32.72
2,908.0	46.96	191.87	2,857.2	-157.2	50.7	111.0	26.37	6.26	35.65
2,941.0	49.07	202.07	2,879.3	-180.6	43.5	134.9	23.83	6.39	30.91
2,972.0	51.44	211.10	2,899.1	-201.9	32.8	158.6	23.65	7.65	29.13
3,005.0	54.69	212.79	2,919.0	-224.3	18.9	185.0	10.66	9.85	5.12
3,037.0	57.60	213.16	2,936.8	-246.5	4.4	211.5	9.14	9.09	1.16
3,068.0	60.15	213.97	2,952.8	-268.7	-10.3	238.0	8.52	8.23	2.61
3,099.0	62.96	214.21	2,967.6	-291.2	-25.5	265.2	9.09	9.06	0.77
3,131.0	66.83	215.32	2,981.2	-315.0	-42.1	294.1	12.49	12.09	3.47
3,162.0	71.67	216.17	2,992.1	-338.5	-59.0	322.9	15.82	15.61	2.74
3,195.0	76.94	216.24	3,001.1	-364.2	-77.8	354.5	15.97	15.97	0.21
3,227.0	80.55	216.78	3,007.3	-389.4	-96.4	385.6	11.40	11.28	1.69
3,258.0	84.50	217.40	3,011.3	-413.9	-115.0	416.1	12.90	12.74	2.00
3,290.0	86.88	217.45	3,013.7	-439.2	-134.3	447.7	7.44	7.44	0.16
3,342.0	88.84	217.52	3,015.7	-480.5	-166.0	499.3	3.76	3.76	0.13
Coal Entrance 3342 MD / 3016 TVD									
3,353.0	89.25	217.53	3,015.9	-489.2	-172.7	510.2	3.76	3.76	0.13
3,417.0	88.90	218.15	3,016.9	-539.7	-211.9	573.5	1.11	-0.55	0.97
3,481.0	88.55	218.67	3,018.3	-589.9	-251.7	636.8	0.98	-0.55	0.81
3,545.0	88.81	219.24	3,019.8	-639.6	-291.9	700.0	0.98	0.41	0.89
3,608.0	89.08	218.05	3,021.0	-688.8	-331.2	762.3	1.94	0.43	-1.89
3,672.0	89.87	216.43	3,021.6	-739.8	-370.0	825.7	2.82	1.23	-2.53
3,736.0	89.96	216.00	3,021.6	-791.4	-407.8	889.3	0.69	0.14	-0.67
3,799.0	89.69	214.18	3,021.8	-843.0	-444.0	952.1	2.92	-0.43	-2.89
3,862.0	90.40	212.74	3,021.8	-895.5	-478.7	1,015.0	2.55	1.13	-2.29
3,925.0	91.28	212.02	3,020.9	-948.7	-512.5	1,077.9	1.80	1.40	-1.14
3,989.0	91.28	211.88	3,019.4	-1,003.0	-546.3	1,141.8	0.22	0.00	-0.22
4,052.0	91.80	212.19	3,017.7	-1,056.4	-579.7	1,204.8	0.96	0.83	0.49
4,116.0	91.80	211.81	3,015.7	-1,110.6	-613.6	1,268.7	0.59	0.00	-0.59

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec34-T32N-R6W - 329A
Project:	Rio Arriba Co - NM	TVD Reference:	WELL @ 6329 0usft (Original Well Elev)
Site:	Sec34-T32N-R6W - 329A	MD Reference:	WELL @ 6329 0usft (Original Well Elev)
Well:	Rosa Unit #329A STK	North Reference:	True
Wellbore:	STK	Survey Calculation Method:	Minimum Curvature
Design:	STK	Database:	EDM 5000.1 Single User 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)
4,180.0	90.92	211.53	3,014.2	-1,165.1	-647.2	1,332.6	1.44	-1.38	-0.44
4,244.0	90.84	211.49	3,013.2	-1,219.6	-680.7	1,396.6	0.14	-0.13	-0.06
4,308.0	90.84	211.56	3,012.3	-1,274.2	-714.1	1,460.6	0.11	0.00	0.11
4,371.0	91.36	211.08	3,011.1	-1,328.0	-746.9	1,523.5	1.12	0.83	-0.76
4,434.0	91.89	210.34	3,009.3	-1,382.1	-779.0	1,586.5	1.44	0.84	-1.17
4,497.0	91.80	210.95	3,007.3	-1,436.3	-811.1	1,649.5	0.98	-0.14	0.97
4,561.0	91.10	211.73	3,005.7	-1,491.0	-844.4	1,713.4	1.64	-1.09	1.22
4,624.0	90.31	211.13	3,004.9	-1,544.7	-877.2	1,776.4	1.57	-1.25	-0.95
4,688.0	90.57	211.91	3,004.4	-1,599.3	-910.7	1,840.4	1.28	0.41	1.22
4,751.0	91.01	211.45	3,003.5	-1,652.9	-943.8	1,903.3	1.01	0.70	-0.73
4,815.0	89.43	210.11	3,003.3	-1,707.9	-976.5	1,967.3	3.24	-2.47	-2.09
4,879.0	89.96	209.02	3,003.6	-1,763.5	-1,008.1	2,031.3	1.89	0.83	-1.70
4,943.0	89.78	208.17	3,003.8	-1,819.7	-1,038.7	2,095.3	1.36	-0.28	-1.33
5,008.0	90.57	208.75	3,003.6	-1,876.9	-1,069.7	2,160.3	1.51	1.22	0.89
5,072.0	89.08	208.55	3,003.8	-1,933.0	-1,100.4	2,224.3	2.35	-2.33	-0.31
5,136.0	87.32	208.51	3,005.8	-1,989.2	-1,130.9	2,288.2	2.75	-2.75	-0.06
5,200.0	88.90	208.74	3,007.9	-2,045.4	-1,161.6	2,352.2	2.49	2.47	0.36
5,264.0	86.35	208.19	3,010.5	-2,101.6	-1,192.1	2,416.1	4.08	-3.98	-0.86
5,328.0	85.82	207.74	3,014.9	-2,158.0	-1,222.0	2,479.9	1.09	-0.83	-0.70
5,356.0	86.09	207.42	3,016.9	-2,182.7	-1,234.9	2,507.8	1.49	0.96	-1.14
5,412.0	86.09	207.42	3,020.7	-2,232.3	-1,260.7	2,563.6	0.00	0.00	0.00
"Proj TD" 5412'MD / 3021'TVD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,342.0	3,015.7	-480.5	-166.0	"Coal Entrance" 3342'MD / 3016'TVD
5,412.0	3,020.7	-2,232.3	-1,260.7	"Proj TD" 5412'MD / 3021'TVD

Checked By _____ Approved By _____ Date: _____