In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (See other instructions on reverse side)

RECEIVED
SEP 14 2011
Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB NO 1004-0137
Expires February 28, 1995

5 LEASE DESIGNATION AND LEASE NO
SF-078772

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a TYPE OF WELL OIL WELL X GAS WELL DRY OTHER

b TYPE OF COMPLETION
NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR X OTHER – horizontal reentry

7 UNIT AGREEMENT NAME
Rosa Unit

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

8 FARM OR LEASE NAME, WELL NO
Rosa Unit 279A

3 ADDRESS AND TELEPHONE NO
P O. Box 640, Aztec, NM 87410 (505) 634-4208

9 API WELL NO
30-039-29534

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
SURF 1669' FSL & 698' FEL
BHL: 1816' FNL & 2386' FEL

10 FIELD AND POOL, OR WILDCAT
BASIN FRUITLAND COAL

11 SEC , T ,R ,M , OR BLOCK AND SURVEY OR AREA
SEC 35, 32N, 6W

14 PERMIT NO	DATE ISSUED	12 COUNTY OR	13 STATE
		Rio Arriba	New Mexico

15 DATE SPUDDED	16 DATE T D REACHED	17 DATE COMPLETED (READY TO PRODUCE)	18 ELEVATIONS (DK, RKB, RT,GR,ETC)*	19 ELEVATION CASINGHEAD
5-15-06	existing	9/9/11	6317' GR	

20 TOTAL DEPTH, MD & TVD	21 PLUG, BACK T D , MD & TVD	22 IF MULTCOMP , HOW MANY	23 INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
5330' MD / 3053' TVD	5315'' MD 3053' TVD			X	

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN FRUITLAND COAL 2580'-5310' MD

25 WAS DIRECTIONAL SURVEY MADE
YES

26 TYPE ELECTRIC AND OTHER LOGS RUN

27 WAS WELL CORED
No

28 CASING REPORT (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB /FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8", J-55	36#	348'	12-1/4"	190 SX - SURFACE	
7", K-55	23#	2997'	8-3/4"	450SX – SURFACE	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 ½"	2537'	5315'	0 SX	

30 TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8", 6.5#, J-55	3226'	

31 PERFORATION RECORD (Interval, size, and number)

Basin Fruitland Coal 2580'-5310' (Pre-Perforated Liner, 28, 0.50" dia holes p/ft)

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2580'-5310'	Well was not stimulated

RECEIVED
SEP 2011
OIL CONS. DIV. DIST. 3

33 PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	WELL STATUS (PRODUCING OR SI)
6/22/06		Producing

DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS – MCF	WATER - BBL	GAS-OIL RATIO

FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL – BBL	GAS – MCF	WATER - BBL	OIL GRAVITY-API (CORR)

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) non flaring

TEST WITNESSED BY

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Larry Higgins TITLE Larry Higgins DATE 9/14/11

NMOCD

ACCEPTED FOR RECORD
SEP 15 2011
FARMINGTON FIELD OFFICE
BY

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)

38 GEOLOGIC MARKERS

FORMATION	TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC		NAME
KIRTLAND	2481'						
FRUITLAND	2916'						
PICTURED CLIFFS	3145'						

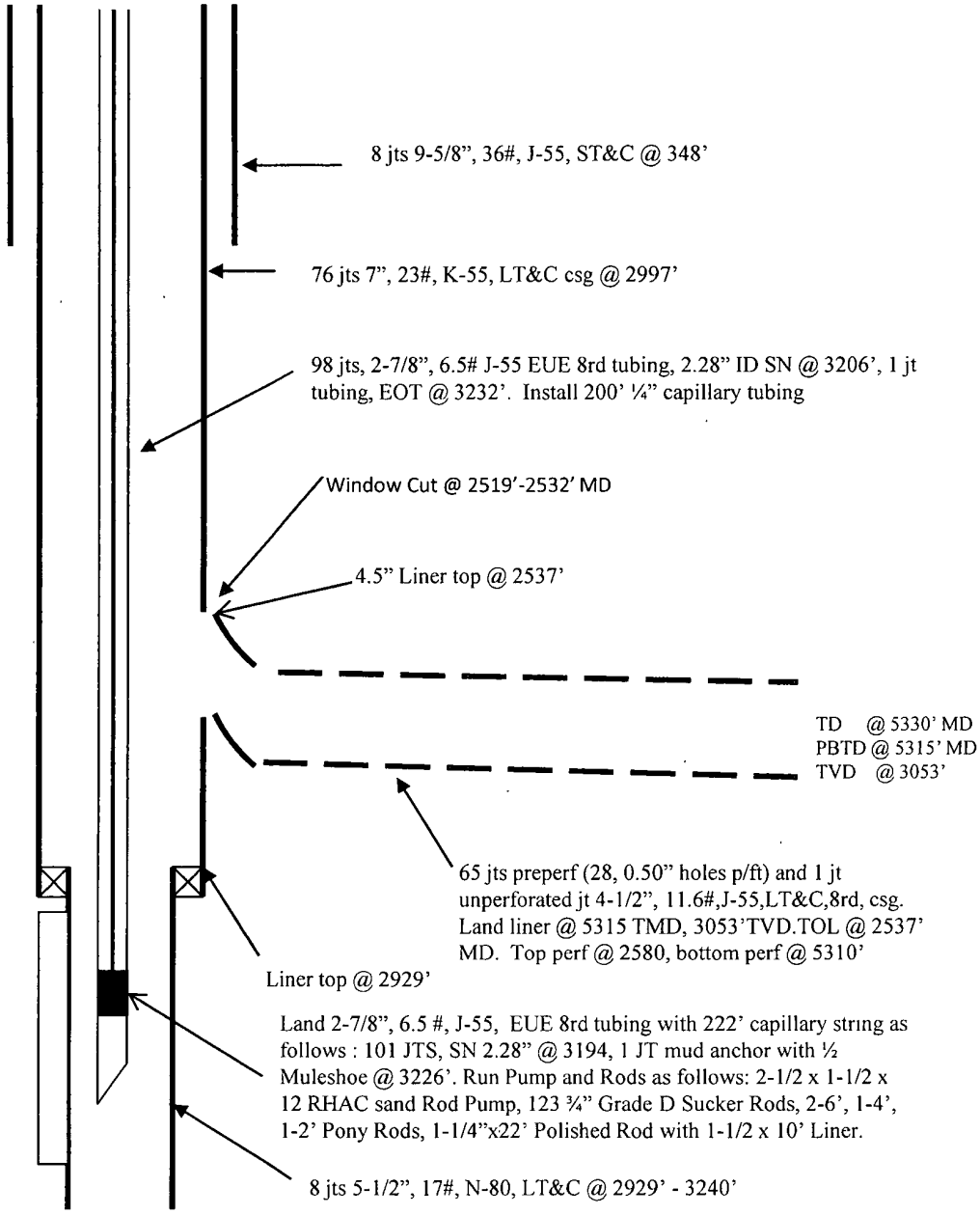
ROSA UNIT #279A- ReEntry
BASIN FRUITLAND COAL

Location:
Sur: 1669' FSL and 698' FEL
NE/4 SE/4 Sec 35(I), T32N, R06W
BHL: 1816' FNL and 2386' FEL
SW/4 NE/4 Sec 35 (G), T32N, R-06W
Rio Arriba, New Mexico

Elevation: 6317' GR
API # 30-039-29534

Spud:	05/15/06
Completed:	06/06/06
1st Delivery:	06/22/06
Cavitate:	07/26/06
Pump Install:	05/23/08
Horiz re entry:	9/9/11

Pumping Unit
Lufkin 114-143-64



Top	Depth
Ojo Alamo	2351'
Kirtland	2481'
Fruitland	2916'
Pictured Cliffs	3145'

Open hole from 6-1/4" to 9-1/2" from 3005' to 3240'

PBTD @ 3235'
TD @ 3240'

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	190 sx	268 cu. ft.	Surface
8-3/4"	7", 23#	450 sx	910 cu. ft.	Surface
6-1/4"	4-1/2", 11.6#	Did Not Cmt		
6-1/4"	5-1/2", 17#	Did Not Cmt		

LH 9/13/11

Williams Energy

Rosa Unit #279A
Sec35 T32N-R6W - 279A
Rio Arriba Co. NM
GL: 6318' KB: 14'

PATHFINDER®
A Schlumberger Company

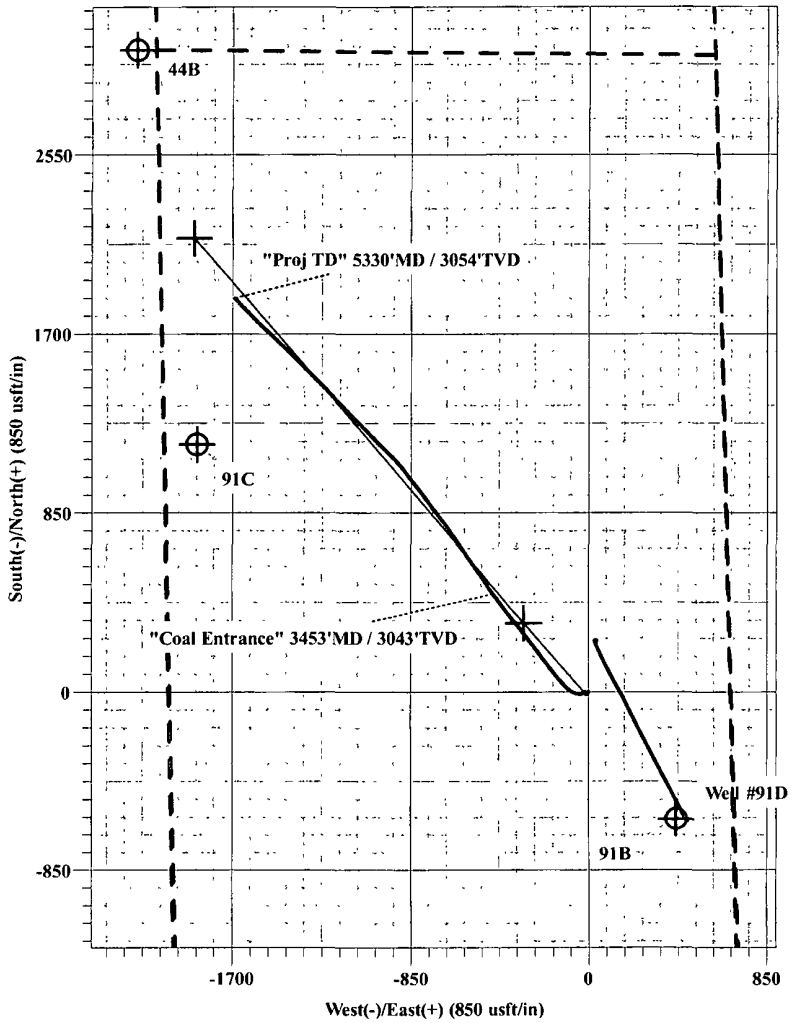
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
44B	1.0	3042 9	-2152.0	2164396.66	156051 50	Circle (Radius 50 0)
91B	1 0	-602.9	415 4	2160719 63	158573 94	Circle (Radius: 50 0)
91C	1 0	1175.0	-1867 4	2162525 46	156313 11	Circle (Radius 50.0)
LAND	3040 0	325 9	-305 8	2161657 24	157864 22	Point
TD	3040.0	2152 6	-1879 6	2163503 14	156312 90	Point

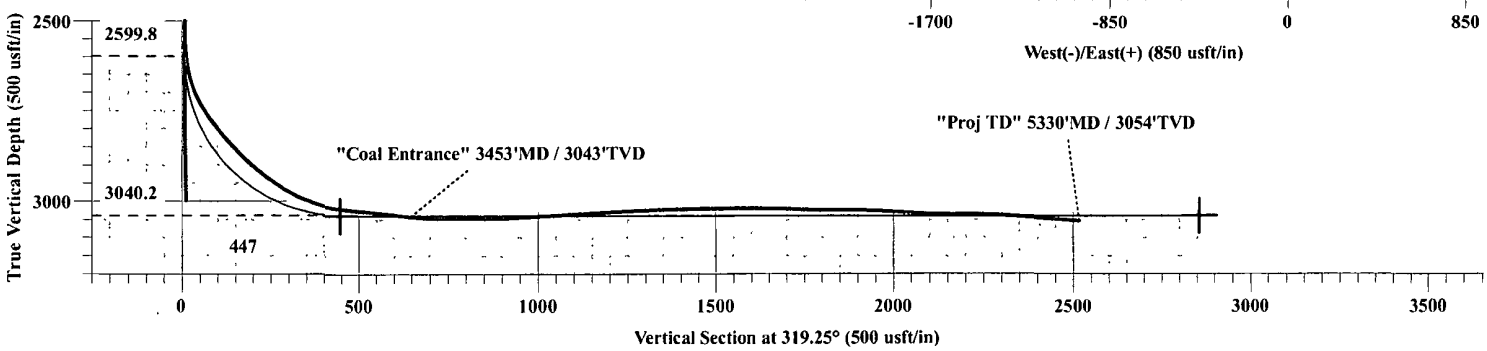
EOW
No Hardlines
Crossed

LEGEND

- Rosa Unit #279A, STK, STK V0
- Rosa Unit #279A, OH, OH V0
- Well #91D, Wellbore #1, Wellbore #1 V0
- Design #3



WELL DETAILS. Rosa Unit #279A			
		6318 0	
Northing	Easting	Latittude	Longitude
2161327 62	158165.99	36° 56' 2.648 N	107° 25' 10.528 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2600 0	0 61	207 36	2599 8	-3 6	-16 2	0 00	0.00	7 8	
3290 9	90 00	319.25	3040 2	325 9	-305 8	13.06	111.89	446 6	
5702 1	90 00	319 25	3040.0	2152 6	-1879 6	0 00	0 00	2857 7	TD

Plan: Design #3 (Rosa Unit #279A/STK)

Created By: Frank C. Scardino Date: 8/7/2011

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec35 T32N-R6W - 279A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 279A	**MD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Well:	Rosa Unit #279A	**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 Sec35 T32N-R6W - 279A

Site Position:		**Northing:**	2,161,327 61 usft	**Latitude:**	36° 56' 2 648 N
From:	Lat/Long	**Easting:**	158,166 00 usft	**Longitude:**	107° 25' 10 528 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0 70 °

Well Rosa Unit #279A

Well Position	**+N/-S**	0 0 usft	**Northing:**	2,161,327.61 usft	**Latitude:**	36° 56' 2 648 N
	+E/-W	0.0 usft	**Easting:**	158,166 00 usft	**Longitude:**	107° 25' 10.528 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,318 0 usft

Wellbore STK

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	06/03/11	9 78	63.69	50,896

Design STK

Audit Notes:

Version:	1 0	**Phase:**	ACTUAL	**Tie On Depth:**	0 0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	319 25

Survey Program **Date** 08/19/11

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 0	5,330.0	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 41	161 55	200 0	-0 7	0 2	-0.7	0.21	0 21	0 00
400 0	1 04	213 44	400 0	-2 9	-0 5	-1 8	0 43	0.32	25.95
600.0	1 19	213 49	599.9	-6.1	-2 7	-2 9	0 08	0 08	0 03
800 0	1 09	223 54	799 9	-9 2	-5.1	-3 6	0 11	-0 05	5 03
1,000 0	0 78	229 06	999 9	-11.5	-7 5	-3.8	0 16	-0 16	2 76
1,200 0	0.42	304.59	1,199 9	-12 0	-9 1	-3 1	0 39	-0 18	37.77
1,400 0	0 40	304 59	1,399 9	-11 2	-10 3	-1 7	0 01	-0 01	0 00
1,600 0	0 91	328 17	1,599.9	-9 4	-11.7	0 5	0 28	0 26	11.79
1,800 0	1.33	333 34	1,799 8	-6 0	-13.6	4 3	0 22	0 21	2 59

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec35 T32N-R6W - 279A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 279A	**MD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Well:	Rosa Unit #279A	**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)
2,000 0	0 80	323 77	1,999 8	-2 8	-15.5	8 0	0.28	-0 27	-4 79
2,200 0	0 38	8 30	2,199.8	-1.0	-16 2	9 8	0.30	-0 21	22.27
2,400 0	0 37	151.05	2,399 8	-0.9	-15 8	9 6	0 36	-0 01	71 38
2,430 0	0 67	152.50	2,429.8	-1 2	-15 6	9.3	1.00	1 00	4.83
2,459 0	0 45	168 57	2,458 8	-1.4	-15 5	9 1	0 93	-0 76	55.41
2,490 0	0 60	166 74	2,489.8	-1.7	-15 5	8 8	0 49	0 48	-5 90
2,525 0	2 96	232 21	2,524.7	-2.4	-16 2	8.7	7 90	6 74	187 06
2,573 0	11 70	246 52	2,572 3	-5 1	-21.6	10 2	18 46	18 21	29 81
2,600 0	13 89	254 56	2,598 6	-7 1	-27 3	12 4	10.44	8 11	29 78
2,633.0	17 41	264 40	2,630.4	-8.6	-36 0	17.0	13.32	10 67	29.82
2,662 0	20 31	270.32	2,657 9	-9.0	-45 3	22 8	11 97	10 00	20 41
2,694 0	24.36	282.94	2,687 5	-7.5	-57 3	31 7	19 55	12 66	39 44
2,726 0	29.02	293.86	2,716.1	-2 9	-70 9	44 1	21 09	14.56	34 13
2,758.0	32.45	301 93	2,743 6	4.8	-85 3	59 3	16 74	10 72	25.22
2,790 0	35.70	310 66	2,770 1	15.4	-99 7	76 7	18 33	10 16	27 28
2,822 0	39 22	318 81	2,795 5	29 1	-113.4	96 1	18 98	11 00	25 47
2,853 0	41 15	320 04	2,819 2	44 3	-126.4	116 1	6 73	6 23	3 97
2,886 0	42 47	319 07	2,843 8	61 1	-140.7	138.1	4.45	4 00	-2.94
2,917 0	44 23	319 16	2,866 3	77 2	-154.6	159 4	5.68	5 68	0 29
2,948 0	47 40	320.97	2,887 9	94 2	-168.9	181 6	11 05	10 23	5.84
2,980 0	50 83	322 47	2,908 9	113.2	-183 9	205 8	11 29	10 72	4 69
3,012.0	53 38	323 11	2,928 5	133 3	-199.1	231 0	8 12	7 97	2 00
3,043 0	55 49	323 44	2,946 6	153 5	-214 2	256 1	6 86	6 81	1 06
3,075 0	58.39	323 90	2,964 0	175 1	-230 1	282 9	9.14	9 06	1 44
3,106 0	62.17	323.66	2,979 4	196 8	-246 0	309 7	12 21	12.19	-0 77
3,139 0	66 13	323 10	2,993 8	220 7	-263.7	339 3	12.10	12.00	-1 70
3,170 0	70 70	322 31	3,005 2	243 6	-281 2	368 1	14.93	14 74	-2 55
3,202 0	77 03	322 23	3,014.1	267.9	-300 0	398.8	19.78	19 78	-0 25
3,234 0	81.87	322.25	3,019.9	292 8	-319 2	430 2	15 13	15 13	0 06
3,266 0	84 42	322.08	3,023 7	317 9	-338 7	461 9	7.99	7 97	-0 53
3,297 0	84 33	321 99	3,026 8	342 2	-357 7	492 7	0 41	-0 29	-0 29
3,329 0	84 15	321 53	3,030 0	367.2	-377 4	524 5	1 54	-0 56	-1 44
3,361 0	83 89	322 20	3,033 3	392 2	-397 1	556 3	2.24	-0.81	2.09
3,425 0	83 36	322 24	3,040.4	442.5	-436 0	619 8	0 83	-0 83	0 06
3,453 0	84.92	323 02	3,043 3	464 6	-452 9	647 6	6 24	5 59	2.79
"Coal Entrance" 3453'MD / 3043'TVD									
3,488 0	86 88	323 99	3,045 8	492 7	-473.7	682 4	6.24	5 59	2 77
3,552 0	90.92	325 75	3,047.0	545.0	-510 5	746 1	6 89	6 31	2 75
3,616 0	90 13	324.83	3,046 4	597 6	-546 9	809 8	1 89	-1 23	-1.44
3,680 0	89 43	323.80	3,046 7	649 6	-584 3	873 5	1 95	-1.09	-1.61
3,743.0	92.68	325.02	3,045 5	700.8	-620 9	936 2	5 51	5 16	1 94
3,807 0	93 74	324 19	3,041 9	752 9	-657 9	999 8	2 10	1 66	-1 30
3,871 0	93.12	322.66	3,038 1	804 2	-696.0	1,063 6	2 58	-0 97	-2 39
3,934 0	93 83	323 36	3,034 3	854 4	-733 8	1,126 3	1 58	1 13	1 11

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec35 T32N-R6W - 279A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 279A	**MD Reference:**	WELL @ 6332 0usft (Original Well Elev)
Well:	Rosa Unit #279A	**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)
3,999.0	92.51	322 69	3,030 7	906 3	-772 9	1,191.1	2 28	-2 03	-1.03
4,063 0	92 24	322 47	3,028 0	957 1	-811 7	1,254.9	0.54	-0 42	-0 34
4,127.0	92 24	322 48	3,025 5	1,007 8	-850.7	1,318 8	0 02	0 00	0.02
4,191 0	91 71	320 51	3,023.3	1,057.8	-890 5	1,382 7	3 19	-0 83	-3 08
4,255.0	92 24	316 75	3,021 1	1,105 8	-932.8	1,446.6	5.93	0 83	-5 88
4,320.0	90 75	314.57	3,019 4	1,152 3	-978.2	1,511.5	4.06	-2.29	-3 35
4,384.0	89 16	314.93	3,019 5	1,197 3	-1,023 6	1,575 3	2 55	-2.48	0 56
4,446 0	89 69	315 38	3,020 1	1,241 3	-1,067 4	1,637 1	1 12	0 85	0.73
4,509 0	87 67	315.51	3,021 5	1,286 2	-1,111 5	1,699.9	3 21	-3 21	0 21
4,571 0	88.20	314 98	3,023 8	1,330 2	-1,155.2	1,761.7	1 21	0 85	-0 85
4,635 0	89 69	316.04	3,025 0	1,375.8	-1,200.0	1,825 6	2.86	2 33	1.66
4,699 0	90.31	317.54	3,025 0	1,422.5	-1,243 8	1,889 5	2 54	0 97	2.34
4,762 0	87 32	314 47	3,026.3	1,467 8	-1,287.6	1,952 4	6 80	-4.75	-4 87
4,826 0	86 79	315 15	3,029 6	1,512 8	-1,332 9	2,016 1	1 35	-0 83	1 06
4,889 0	86 35	314 55	3,033 3	1,557 2	-1,377 5	2,078 8	1 18	-0 70	-0 95
4,954 0	89 25	315.07	3,035 8	1,602 9	-1,423.6	2,143.6	4.53	4 46	0 80
5,018 0	91.28	315.00	3,035 5	1,648 2	-1,468.8	2,207 4	3 17	3 17	-0.11
5,082 0	86 53	313 29	3,036 7	1,692.8	-1,514.7	2,271 1	7 89	-7 42	-2 67
5,145 0	86 53	313 58	3,040 6	1,736.0	-1,560.4	2,333.7	0 46	0.00	0 46
5,209 0	85 91	315 39	3,044 8	1,780 7	-1,605 9	2,397 3	2 98	-0 97	2.83
5,267 0	85 74	317.39	3,049.0	1,822 6	-1,645 8	2,455 1	3 45	-0 29	3 45
5,330 0	85 74	317.39	3,053 7	1,868 9	-1,688 3	2,517 9	0 00	0 00	0 00
"Proj TD" 5330'MD / 3054'TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,453 0	3,043 3	464 6	-452.9	"Coal Entrance" 3453'MD / 3043'TVD
5,330.0	3,053 7	1,868.9	-1,688 3	"Proj TD" 5330'MD / 3054'TVD

Checked By: _____ Approved By: _____ Date: _____