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

RCVD NOV 17'11

WELL LOCATION AND ACREAGE DEDICATION PLAT As Drilled

[1] API Number	[2] Pool Code	[3] Pool Name	
30-039-27817	71629	BASIN FRUITLAND COAL	
[4] Property Code	[5] Property Name		[6] Well Number
17033	ROSA UNIT		226A
[7] OGRID No.	[8] Operator Name		[9] Elevation
120782	WILLIAMS PRODUCTION COMPANY		6336'

[10] Surface Location

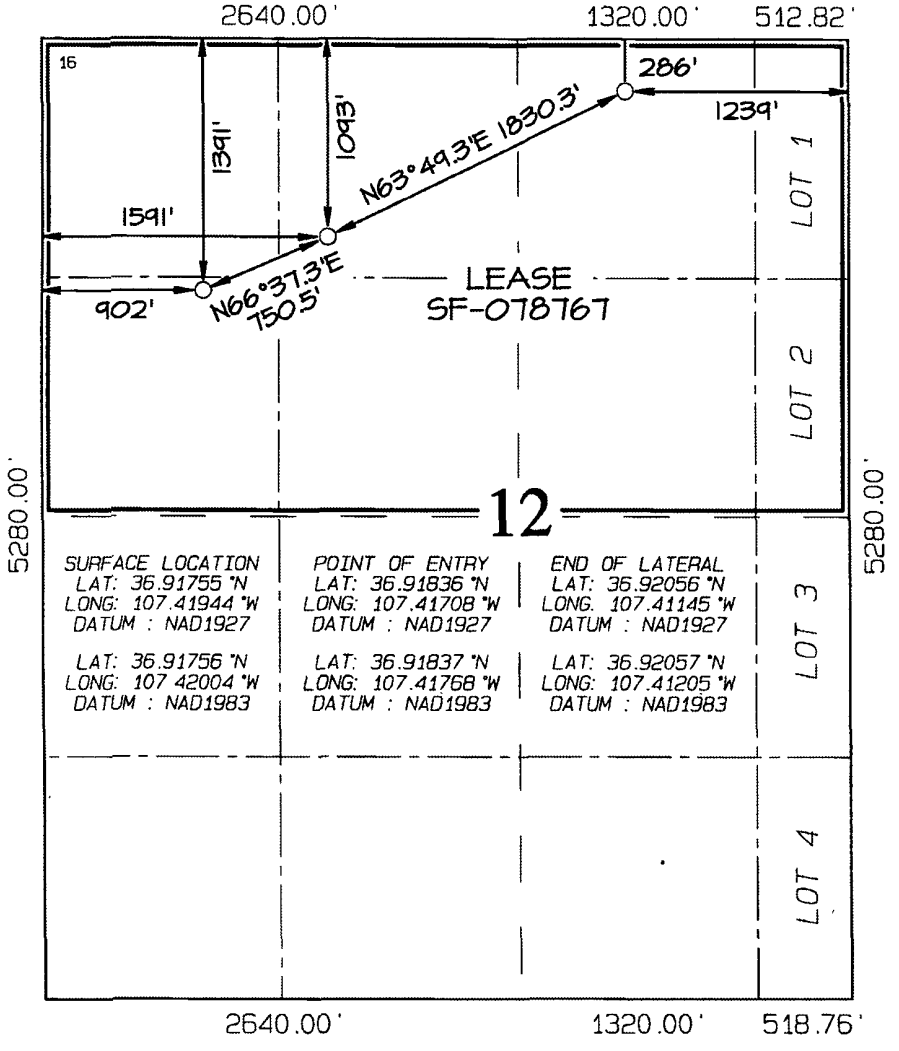
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	12	31N	6W		1391	NORTH	902	WEST	RIO ARRIBA

[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	12	31N	6W		286	NORTH	1239	EAST	RIO ARRIBA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
271.17 Acres - (N/2)			SD-201119-0

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.

Ben Mitchell — 11/16/2011
Signature — Date

Ben Mitchell
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 19, 2011
Date of Survey: MAY 7, 2004

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS
Certificate Number 15269

Av

RECEIVED
NOV 17 2011
Farmington Field Office
Bureau of Land Management

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)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5 LEASE DESIGNATION AND LEASE NO: NMSF-078767

6 IF INDIAN, ALLOTTEE OR:

7 UNIT AGREEMENT NAME: Rosa Unit

NMNM 78407D

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

2 NAME OF OPERATOR: WILLIAMS PRODUCTION COMPANY

8 FARM OR LEASE NAME, WELL NO: Rosa Unit 226A

3 ADDRESS AND TELEPHONE NO: P O. Box 640, Aztec, NM 87410 (505) 333-1822

9 API WELL NO: 30-039-27817-0151

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
SURF 1391' FNL & 902' FWL
BHL 286' FNL & 1239' FEL

10 FIELD AND POOL, OR WILDCAT: BASIN FRUITLAND COAL

11 SEC, T, R, M, OR BLOCK AND SURVEY OR AREA: SEC 12, 31N, 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
8-26-2004	10-14-11	11-10-11	6336' 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
5391' MD / 3081' TVD	5379'' MD 3081' TVD			X	

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*: BASIN FRUITLAND COAL 3500'-5374' 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#	317'	12-1/4"	416 SX - SURFACE	
7", N-80	23#	3014'	8-3/4"	500 SX – SURFACE	
5 ½", N-80	17#	3288'	6-1/4"	0	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
4 ½"	2455'	5379'	0 SX	

30 TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8", 6.5#, J-55	3257'	

31 PERFORATION RECORD (Interval, size, and number)

Basin Fruitland Coal 3500'-5374' (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
3500'-5374'	Well was not stimulated

RCVD NOV 21 '11
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)
10/21/04		PR

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

ACCEPTED FOR RECORD

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

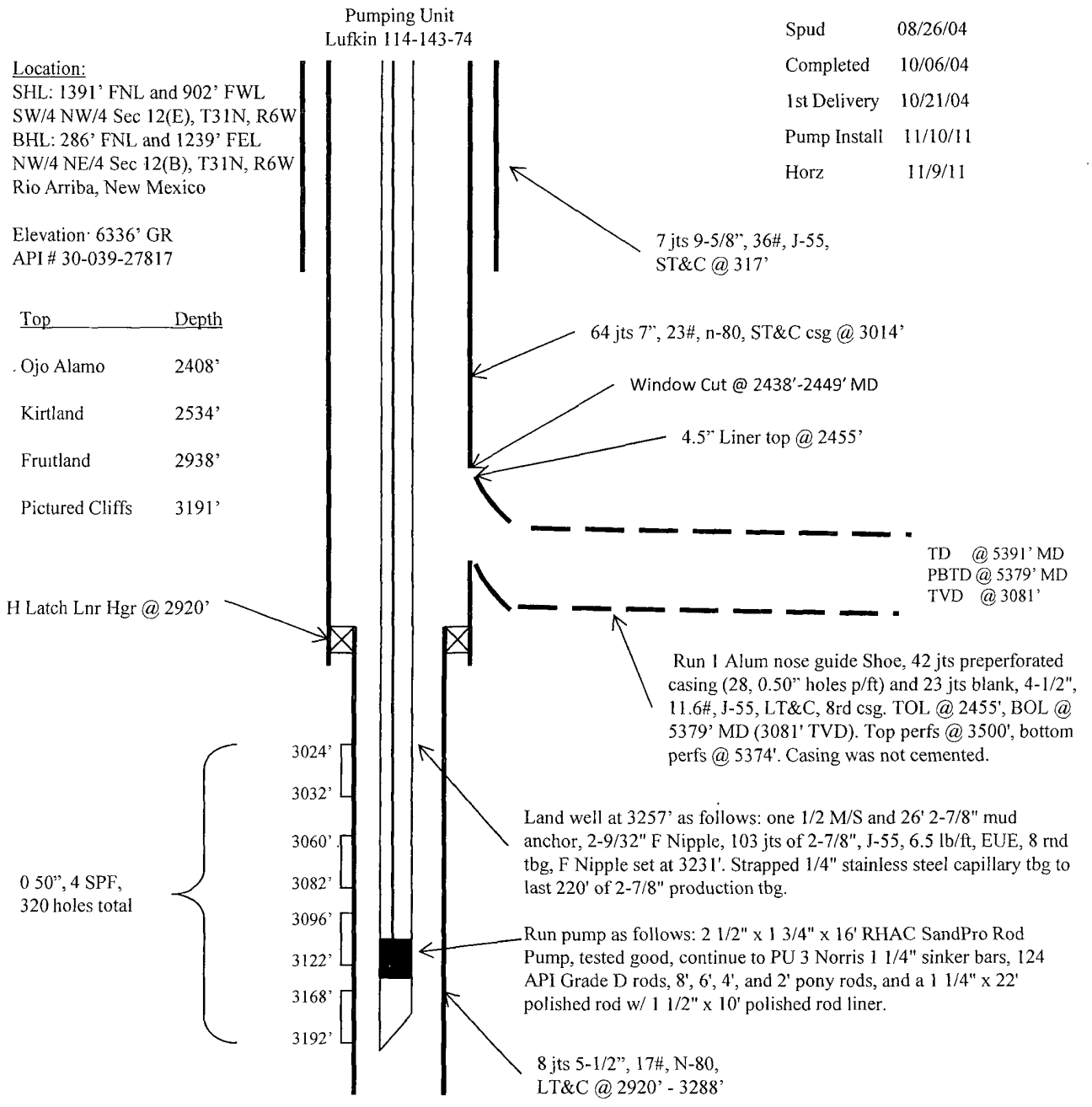
SIGNED Heather Riley TITLE Heather Riley DATE 11/17/11

NOV 18 2011
FARMINGTON FIELD OFFICE
BY

NMOCD

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 MARKE
FORMATION	TOP		BOTTOM		DESCRIPTION, CONTENTS, ETC		NAME
KIRTLAND	2534'						
FRUITLAND	2938'						
PICTURED CLIFFS	3191'						

ROSA UNIT Re-Entry #226A
FRUITLAND COAL



Underream 6-1/4" to 9-1/2" from 3020' to 3190'

PBTD @ 3287'
TD @ 3288'

Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	416 sx	587 cu. ft.	Surface
8-3/4"	7", 23#	500 sx	1006 cu. ft.	Surface
6-1/4"	5-1/2", 17#	Did Not Cmt		
6-1/4"	4-1/2"	Did Not Cmt		

LG 11/17/2011

Williams Energy

Rosa Unit #226A STK
Sec12 T31N-R6W - 226A
Rio Arriba Co. NM
GL: 6336' KB: 14'

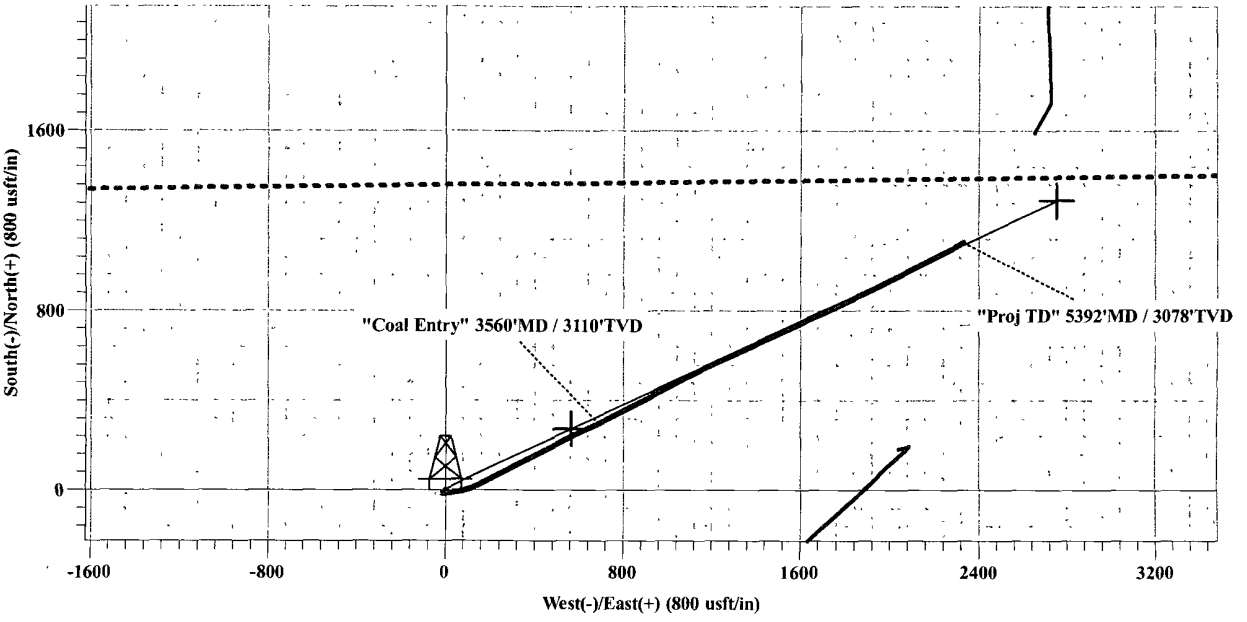
PATHFINDER®
A Schlumberger Company

LEGEND

- Rosa Unit #226A STK, STK, STK V0
- Rosa Unit #226A STK, Wellbore #1, Wellbore #1 V0
- Rosa Unit #149C, Wellbore #1, Wellbore #1 V0
- Rosa Unit #164C, Wellbore #1, Wellbore #1 V0
- Design #5

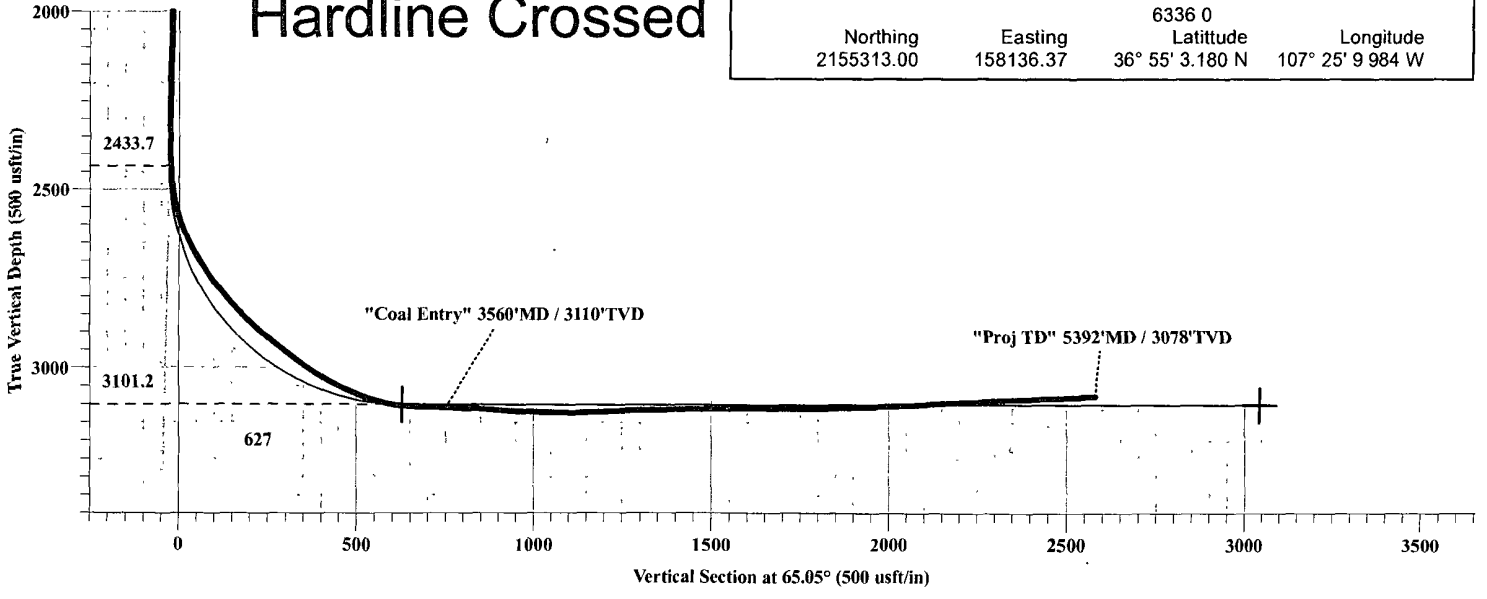
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-226	3101.0	273.8	564.4	2155579 86	158704.09	Point
TD-226	3101.0	1292.3	2754.5	2156571.45	160906 54	Point



No Hardline Crossed

WELL DETAILS: Rosa Unit #226A STK			
		6336 0	
Northing	Easting	Latittude	Longitude
2155313.00	158136.37	36° 55' 3.180 N	107° 25' 9 984 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2434 0	1 58	278 87	2433 7	-10 7	-22 8	0 00	0 00	-25 2	
3474 1	90 00	65 06	3101 2	273 8	564 4	8 78	146.18	627 2	
5889 4	90 00	65 06	3101 0	1292 3	2754.5	0 00	0 00	3042.6	TD-226

Plan: Design #5 (Rosa Unit #226A STK/STK)

Created By: Frank C. Scardino Date: 10/06/2011

Williams Energy

Rio Arriba Co. NM
Sec12 T31N-R6W - 226A
Rosa Unit #226A STK

STK

Design: STK

Standard Survey Report

17 October, 2011

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec12 T31N-R6W - 226A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6350 0usft (Original Well Elev)
Site:	Sec12 T31N-R6W - 226A	**MD Reference:**	WELL @ 6350 0usft (Original Well Elev)
Well:	Rosa Unit #226A 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 Sec12 T31N-R6W - 226A

Site Position:		**Northing:**	2,155,313 00 usft	**Latitude:**	36° 55' 3 180 N
From:	Lat/Long	**Easting:**	158,136 38 usft	**Longitude:**	107° 25' 9 984 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0 70 °

Well Rosa Unit #226A STK

Well Position	**+N/-S**	0 0 usft	**Northing:**	2,155,313 00 usft	**Latitude:**	36° 55' 3 180 N
	+E/-W	0 0 usft	**Easting:**	158,136 38 usft	**Longitude:**	107° 25' 9 984 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,336 0 usft

Wellbore STK

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/04/11	9 73	63 67	50,853

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	65 05

Survey Program **Date** 10/17/11

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 0	5,392 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 65	243.73	200 0	-0 5	-1 0	-1.1	0 33	0 33	0 00
400 0	1 02	203 34	400 0	-2.6	-2 7	-3 6	0 34	0 19	-20 20
600 0	0 72	186 12	600 0	-5 5	-3 6	-5.6	0.20	-0 15	-8 61
800 0	0 64	179 02	799 9	-7 9	-3 7	-6 7	0 06	-0 04	-3 55
1,000.0	0 85	179 03	999 9	-10 5	-3 6	-7.7	0 11	-0 11	0 01
1,200 0	0 63	224 55	1,199 9	-12 8	-4 4	-9.4	0.30	-0 11	22 76
1,400 0	0 30	275 07	1,399 9	-13 5	-5 7	-10 8	0 25	-0 17	25.26
1,600 0	0 49	293 96	1,599 9	-13 1	-7 0	-11 9	0 11	0 10	9 45
1,800 0	0 98	248 90	1,799 9	-13 4	-9 4	-14 1	0 36	0 25	-22 53

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec12 T31N-R6W - 226A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6350 0usft (Original Well Elev)
Site:	Sec12 T31N-R6W - 226A	**MD Reference:**	WELL @ 6350 0usft (Original Well Elev)
Well:	Rosa Unit #226A 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)
2,000 0	1 13	281 25	1,999.8	-13 6	-12 9	-17 4	0 30	0.08	16.18
2,200 0	1 36	293 63	2,199 8	-12 3	-17 0	-20 6	0 18	0 12	6 19
2,400 0	1 59	280.12	2,399 7	-10.8	-21 9	-24 4	0 21	0 12	-6 76
2,501 0	10 02	89 55	2,500 3	-10 5	-14.5	-17 6	11 47	8 35	167 75
2,533 0	13 28	96 43	2,531.6	-10 9	-8 0	-11 9	11 06	10 19	21 50
2,565 0	17 59	93 18	2,562 5	-11 6	0.4	-4 5	13 73	13 47	-10 16
2,597.0	22 16	88 70	2,592 6	-11 7	11 3	5 3	15 04	14 28	-14 00
2,629.0	26 20	86 20	2,621.7	-11 1	24.4	17 4	13 02	12 63	-7 81
2,661 0	28 75	84.99	2,650 1	-10 0	39 1	31 3	8 16	7 97	-3 78
2,694 0	30 51	81 53	2,678 8	-8 0	55 3	46 8	7.44	5 33	-10 48
2,725 0	32 54	77 17	2,705 2	-5 0	71 2	62 5	9 84	6 55	-14 06
2,757.0	35.09	74.22	2,731.8	-0 6	88 5	80 0	9 48	7 97	-9 22
2,789 0	36 76	70 69	2,757 7	5 1	106 4	98 6	8 31	5 22	-11 03
2,821 0	38 51	67 90	2,783 1	12 0	124 6	118 1	7 63	5.47	-8 72
2,853 0	40 63	64 37	2,807 8	20 2	143 3	138 4	9 66	6 63	-11.03
2,885 0	42 82	62 06	2,831 6	29 8	162 3	159 7	8 36	6.84	-7 22
2,917.0	45 37	61.25	2,854 6	40 4	181 9	181 9	8 16	7 97	-2 53
2,948 0	47 40	61 72	2,876 0	51 1	201 6	204 3	6.64	6 55	1 52
2,979 0	49 24	62 38	2,896 6	62.0	222.0	227.5	6.14	5 94	2 13
3,011 0	50 47	62 04	2,917 2	73 4	243 7	251.9	3 93	3 84	-1 06
3,043 0	51 88	62 21	2,937 3	85.0	265 7	276 8	4 43	4 41	0 53
3,075 0	52 67	62 27	2,956 9	96 8	288 1	302 1	2 47	2 47	0 19
3,107 0	54 08	61 93	2,976 0	108.8	310 8	327.7	4.49	4 41	-1 06
3,139 0	56 01	61 82	2,994 3	121 2	333 9	353.9	6 04	6 03	-0 34
3,171 0	58 21	61 96	3,011 7	133 9	357 6	380 7	6 88	6 88	0 44
3,203 0	59 88	62 24	3,028.1	146 7	381 9	408 1	5 27	5 22	0 88
3,235 0	62 26	63.24	3,043 6	159 5	406 8	436 1	7 92	7 44	3 13
3,266.0	66.39	63 67	3,057 1	172 0	431 8	464.0	13.38	13.32	1 39
3,298 0	68 59	64 42	3,069 3	184 9	458 3	493 6	7 21	6 88	2 34
3,330 0	70 61	63 69	3,080 5	198 1	485 3	523 6	6 66	6 31	-2 28
3,363 0	73 42	62 70	3,090 6	212 2	513 3	554 9	8 98	8 52	-3 00
3,395 0	78 26	63 14	3,098 5	226 3	540 9	585 9	15 18	15 13	1.38
3,427.0	83 01	63 59	3,103.7	240 5	569.2	617.5	14 91	14 84	1 41
3,487 0	89 08	65 03	3,107.8	266 4	623 1	677 3	10 40	10 12	2 40
3,551 0	87 49	64.17	3,109 7	293 9	680 9	741 3	2 82	-2 48	-1.34
3,560.0	87 74	63 98	3,110.1	297.8	688 9	750 3	3 46	2.75	-2 10
"Coal Entry" 3560'MD / 3110'TVD									
3,615 0	89 25	62 83	3,111 5	322 4	738 1	805 2	3 46	2 75	-2 09
3,679 0	86 17	62 79	3,114 1	351 6	795 0	869 1	4 81	-4.81	-0 06
3,742.0	86 61	62 40	3,118 1	380 6	850 8	931 9	0 93	0 70	-0 62
3,806 0	87.85	61 77	3,121.2	410 5	907 3	995 8	2.17	1 94	-0 98
3,870 0	89 08	62 07	3,122.9	440.6	963 7	1,059 6	1.98	1 92	0 47
3,934 0	90 48	63 14	3,123 1	470 0	1,020 6	1,123 6	2 75	2 19	1 67
3,998 0	92.77	63.03	3,121 3	499 0	1,077 6	1,187 5	3 58	3 58	-0 17

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec12 T31N-R6W - 226A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6350.0usft (Original Well Elev)
Site:	Sec12 T31N-R6W - 226A	**MD Reference:**	WELL @ 6350 0usft (Original Well Elev)
Well:	Rosa Unit #226A 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)
4,062 0	92 68	63 70	3,118.3	527 7	1,134 7	1,251 4	1 06	-0 14	1.05
4,126 0	91 63	64 93	3,115 9	555.4	1,192.4	1,315 4	2 53	-1 64	1 92
4,190 0	90 84	65 89	3,114 5	582 0	1,250 6	1,379 4	1 94	-1.23	1 50
4,254 0	91 36	64.89	3,113 3	608 7	1,308 7	1,443.3	1 76	0.81	-1 56
4,318 0	90 75	65 86	3,112.1	635 3	1,366 9	1,507 3	1.79	-0 95	1.52
4,381 0	91 10	65 81	3,111 1	661 1	1,424 4	1,570 3	0 56	0 56	-0 08
4,445 0	88 37	65 26	3,111.4	687 6	1,482 6	1,634 3	4 35	-4 27	-0.86
4,509 0	89 43	64 79	3,112 6	714 6	1,540 6	1,698 3	1 81	1 66	-0 73
4,573 0	90 57	64 30	3,112 6	742 1	1,598 4	1,762 3	1 94	1 78	-0 77
4,635 0	90 75	65 20	3,111 9	768 6	1,654 5	1,824 3	1 48	0 29	1 45
4,699 0	92 15	65 94	3,110 2	795 0	1,712 7	1,888.3	2 47	2.19	1.16
4,763 0	92 24	64 43	3,107 8	821 9	1,770 8	1,952 2	2 36	0 14	-2 36
4,826 0	92 51	63 71	3,105 2	849.4	1,827 4	2,015 1	1 22	0.43	-1 14
4,890 0	92 59	63 41	3,102 3	877 9	1,884.6	2,079 1	0 48	0 13	-0 47
4,953 0	92 86	63 93	3,099 3	905 8	1,941.0	2,142 0	0 93	0.43	0 83
5,017.0	93.03	64 10	3,096 1	933 8	1,998 5	2,205.9	0 38	0 27	0 27
5,081 0	92 77	63 27	3,092 8	962 1	2,055.8	2,269.8	1 36	-0 41	-1 30
5,146 0	93 21	62.74	3,089 4	991.6	2,113 6	2,334 6	1 06	0 68	-0 82
5,209 0	92.68	62 81	3,086 2	1,020 4	2,169 6	2,397 5	0 85	-0 84	0 11
5,272 0	92 15	62 75	3,083.5	1,049 2	2,225 5	2,460 4	0 85	-0 84	-0.10
5,334 0	92 59	61 86	3,081 0	1,077 9	2,280 4	2,522 3	1 60	0.71	-1 44
5,392 0	92 59	61 86	3,078 4	1,105.3	2,331 5	2,580 1	0 00	0 00	0 00
"Proj TD" 5392'MD / 3078'TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,560 0	3,110.1	297 8	688 9	"Coal Entry" 3560'MD / 3110'TVD
5,392 0	3,078 4	1,105 3	2,331 5	"Proj TD" 5392'MD / 3078'TVD

Checked By _____ Approved By: _____ Date: _____