

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

5 LEASE DESIGNATION AND LEASE NO.
SF-078772

6 IF INDIAN ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND

RECEIVED

1a TYPE OF WELL OIL WELL GAS WELL DRY OTHER

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

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

3 ADDRESS AND TELEPHONE NO
P.O. Box 640, Aztec, NM 87410 (505) 333-1808

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
SURF: 1953' FNL & 697' FWL
BHL: 1293' FSL & 249' FWL

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO

Rosa Unit 331A

9 API WELL NO

30-039-29526 - 0151

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

Rio Arriba

13 STATE

New Mexico

15 DATE
SPUDED
7/28/2005

16 DATE T D
REACHED
9-18-2011

17 DATE COMPLETED (READY TO PRODUCE)
9-27-2011

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6348' GR

19 ELEVATION CASINGHEAD

20 TOTAL DEPTH, MD & TVD
5007' MD / 3089' TVD

21 PLUG BACK T D, MD & TVD
5007' MD 3089' TVD

22 IF MULTICOMP.
HOW MANY

23 INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24 PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM NAME (MD AND TVD)*
BASIN FRUITLAND COAL 3183'-4987' 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#	337'	12-1/4"	225 SX - SURFACE	
7", K-55	23#	3005'	8-3/4"	550 SX - SURFACE	
5-1/2" N-80	17#	3230'	6-1/4"	None	

29 LINER RECORD

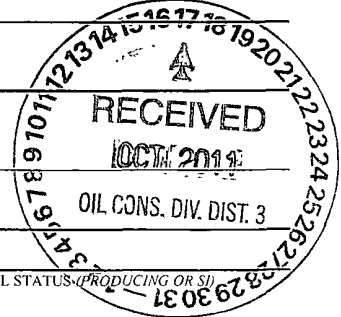
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4 1/2"	2627'	4992'	0 SX		2-7/8", 6 5#, J-55	3215'	

31 PERFORATION RECORD (Interval size, and number)

Basin Fruitland Coal, 3183'-4987' (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
3183'-4987'	Well was not stimulated



33 PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SJ)	
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

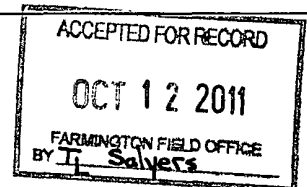
TEST WITNESSED BY

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 Heather Riley TITLE Heather Riley DATE 9/30/2011

NMCCD



FORMATION	TOP		BOTTOM		DESCRIPTION, CONTENTS ETC		NAME
KIRTLAND	2468'						
FRUITLAND	2933'						
PICTURED CLIFFS	3148'						

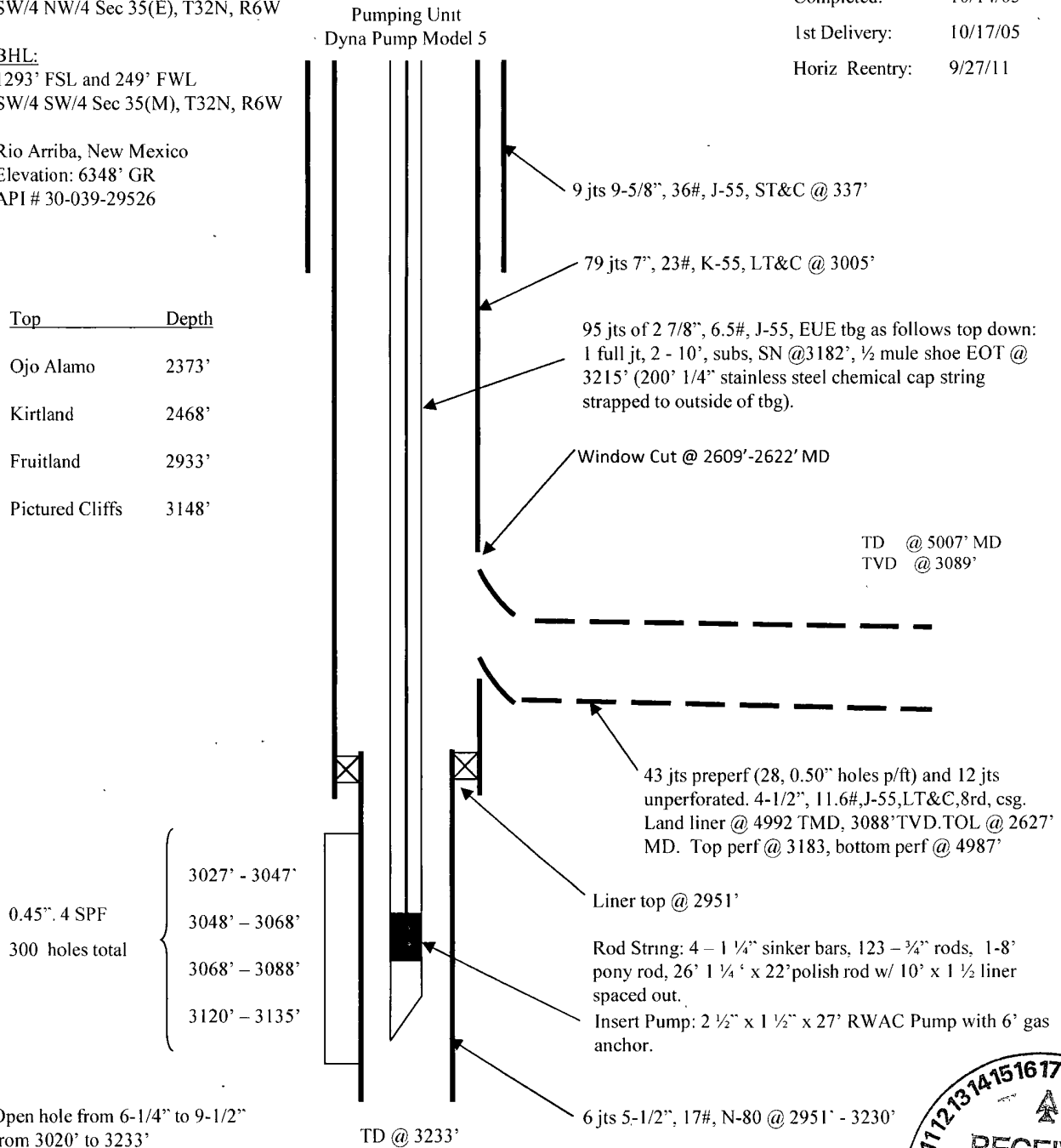
**ROSA UNIT #331A
BASIN FRUITLAND COAL**

SHL:
1953' FNL and 697' FWL
SW/4 NW/4 Sec 35(E), T32N, R6W

BHL:
1293' FSL and 249' FWL
SW/4 SW/4 Sec 35(M), T32N, R6W

Rio Arriba, New Mexico
Elevation: 6348' GR
API # 30-039-29526

Spud : 07/28/05
Completed: 10/14/05
1st Delivery: 10/17/05
Horiz Reentry: 9/27/11



Hole Size	Casing	Cement	Volume	Top of Cmt
12-1/4"	9-5/8", 36#	225 sx	317 cu. ft.	Surface
8-3/4"	7", 23#	550 sx	1125 cu. ft.	Surface
6-1/4"	5-1/2", 17#	Did Not Cmt		
6-1/4"	4-1/2", 11.6#	Did Not Cmt		





Williams Energy

Rosa Unit #331A STK -2
Sec35 T32N-R6W - 331A

Rio Arriba Co. NM

GL: 6348' KB: 14'

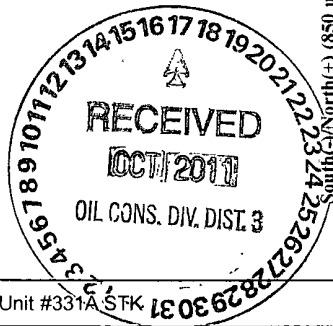


A Schlumberger Company

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

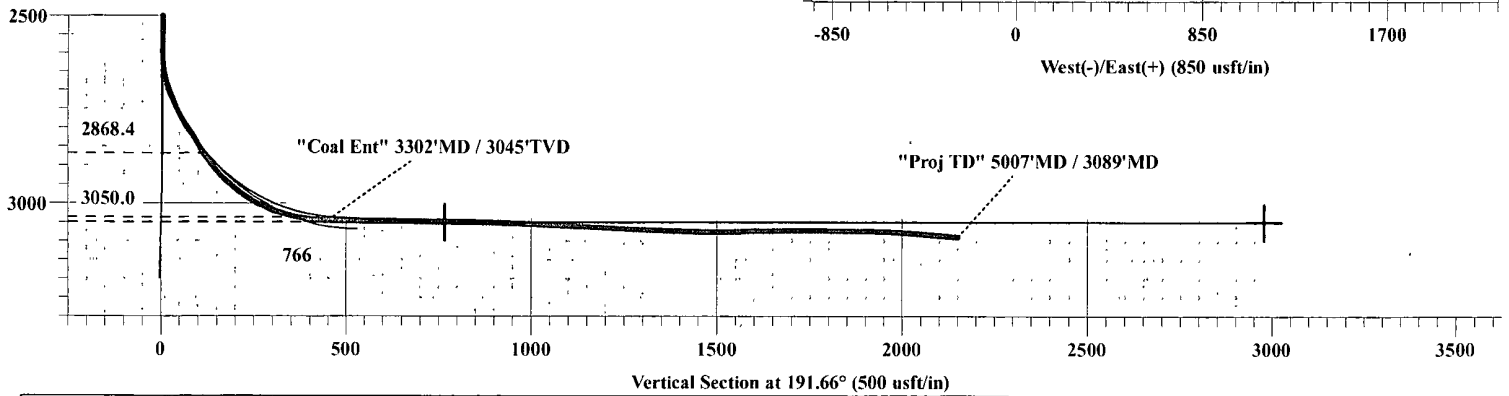
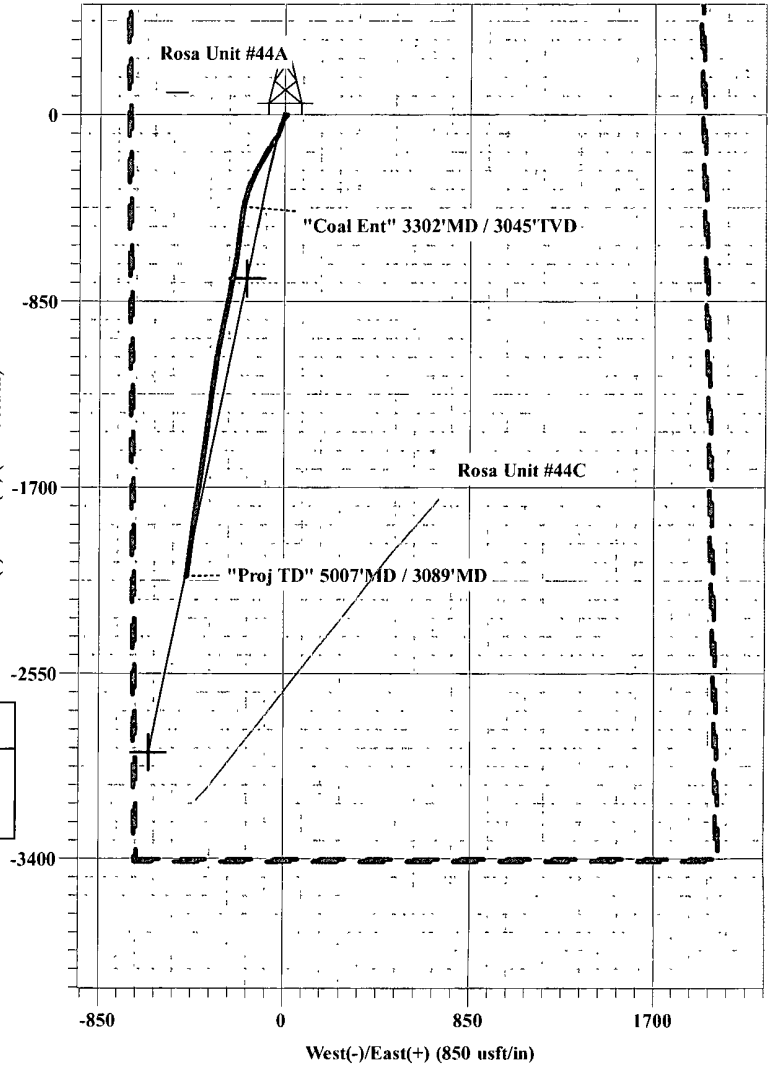
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-331A	3050.0	-746.9	-172.6	2162365.28	154033.86	Point
TD-331A	3050.0	-2912.8	-619.7	2160205.10	153559.91	Point

EOW
No Hardline
Crossed



WELL DETAILS: Rosa Unit #331A STK #1803031

Northing	Easting	Latitude	Longitude
2163109.98	154215.72	36° 56' 19.788 N	107° 25' 59.448 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSect	Target	
2900.0	40.91	194.90	2868.4	-116.8	-37.7	0.00	0.00	122.1		
3297.2	87.29	191.30	3037.2	-455.9	-114.3	11.70	-4.97	469.6		
3539.6	87.29	191.30	3048.7	-693.3	-161.7	0.00	0.00	711.7		
4	3594.3	90.00	191.66	3050.0	-746.9	-172.6	5.00	7.67	766.4	LAND-331A

Plan: Design #2 (Rosa Unit #331A STK/STK-2)

Williams Energy
Rio Arriba Co. NM
Sec35 T32N-R6W - 331A
Rosa Unit #331A STK
STK-2
Design: STK-2
Standard Survey Report
20 September, 2011

Williams Energy

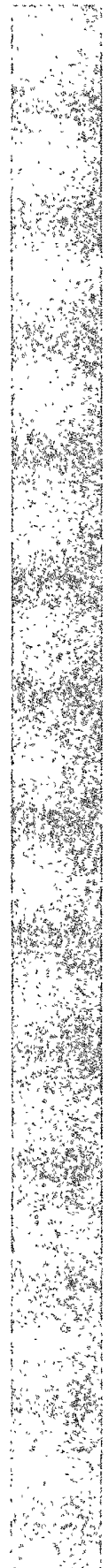
Rio Arriba Co. NM
Sec35 T32N-R6W - 331A
Rosa Unit #331A STK

STK-2

Design: STK-2

Standard Survey Report

20 September, 2011



Survey Report

Company: Williams Energy	Local Co-ordinate Reference: Site Sec35 T32N-R6W- 331A
Project: Rio Arriba Co. NM	TVD Reference: WELL @ 6362 0usft. (Original Well Elev)
Site: Sec35 T32N-R6W- 331A	MD Reference: WELL @ 6362 0usft (Original Well Elev)
Well: Rosa Unit #331A STK	North Reference: True
Wellbore: STK-2	Survey Calculation Method: Minimum Curvature
Design: STK-2	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 - 331A					
Site Position:		Northing:	2,163,109 98 usft	Latitude:	36° 56' 19 788 N
From:	Lat/Long	Easting:	154,215 72 usft	Longitude:	107° 25' 59 448 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0 71 °

Well: Rosa Unit #331A STK						
Well Position	+N/-S	0.0 usft	Northing:	2,163,109 98 usft	Latitude:	36° 56' 19 788 N
	+E/-W	0.0 usft	Easting:	154,215 72 usft	Longitude:	107° 25' 59 448 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	6,348.0 usft

Wellbore: STK-2					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/10/11	9 75	63 69	50,869

Design: STK-2					
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	191 66	

Survey Program: Date 09/20/11					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200 0	5,007 0	Survey #1 (STK-2)	MWD	MWD - Standard	

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 25	101 06	200 0	-0 1	0 4	0 0	0 13	0 13	0 00
400 0	1 21	136 62	400 0	-1 7	2 3	1 2	0 51	0 48	17 78
600 0	1 07	128 52	599.9	-4 4	5 2	3 3	0 11	-0 07	-4 05
800 0	0 44	119 75	799.9	-5 9	7 3	4 3	0 32	-0 32	-4 39
1,000 0	0 23	62 07	999.9	-6 1	8 4	4 3	0 19	-0 11	-28 84
1,200 0	0 19	152 23	1,199.9	-6 2	8 9	4 3	0 15	-0 02	45 08
1,400 0	0 33	3 31	1,399.9	-6 0	9 1	4 0	0 25	0 07	-74 46
1,600 0	0 36	23 05	1,599.9	-4 8	9 3	2 8	0 06	0 02	9 87
1,800 0	0 34	32 72	1,799.9	-3 7	9 9	1 7	0 03	-0 01	4 84

Survey Report

Company: Williams Energy	Local Co-ordinate Reference: Site Sec35 T32N-R6W - 331A
Project: Rio Arriba Co. NM	TVD Reference: WELL @ 6362 0usft (Original Well Elev)
Site: Sec35 T32N-R6W - 331A	MD Reference: WELL @ 6362.0usft (Original Well Elev)
Well: Rosa Unit #331A STK	North Reference: True
Wellbore: STK-2	Survey Calculation Method: Minimum Curvature
Design: STK-2	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 72	256 96	1,999 9	-3 5	9 0	1 6	0 50	0 19	-67 88	
2,200 0	0 68	258 86	2,199 9	-4 0	6 6	2 6	0 02	-0 02	0 95	
2,400 0	0 58	257 93	2,399 9	-4 5	4 5	3 5	0 05	-0 05	-0 47	
2,600 0	0 42	265 15	2,599 9	-4 7	2 7	4 1	0 09	-0 08	3 61	
2,699 0	18 91	202 05	2,697 1	-19 8	-3 7	20 1	18 91	18 68	-63 74	
2,730 0	23 65	202 56	2,725 9	-30 2	-8 0	31 2	15 30	15 29	1 65	
2,761 0	27 26	199 54	2,753 9	-42 6	-12 7	44 3	12 37	11 65	-9 74	
2,793 0	31 30	199 68	2,781 8	-57 4	-18 0	59 8	12 63	12 63	0 44	
2,825 0	34 21	200 24	2,808 7	-73 6	-23 9	76 9	9 14	9 09	1 75	
2,856 0	33 06	204 71	2,834 6	-89 5	-30 4	93 8	8 80	-3 71	14 42	
2,888 0	33 85	215 20	2,861 3	-104 7	-39 2	110 5	18 22	2 47	32 78	
2,919 0	38 51	215 18	2,886 3	-119 7	-49 8	127 3	15 03	15 03	-0 06	
2,951 0	42 12	213 61	2,910 7	-136 7	-61 5	146 4	11 72	11 28	-4 91	
2,983 0	46 87	211 42	2,933 5	-155 7	-73 5	167 3	15 60	14 84	-6 84	
3,015 0	52 32	210 36	2,954 2	-176 6	-86 0	190 3	17 22	17 03	-3 31	
3,046 0	56 01	209 48	2,972 4	-198 4	-98 5	214 2	12 12	11 90	-2 84	
3,078 0	60 06	208 89	2,989 3	-222 0	-111 8	240 1	12 75	12 66	-1 84	
3,110 0	64 63	207 80	3,004 2	-247 0	-125 2	267 2	14 60	14 28	-3 41	
3,142 0	69 91	206 04	3,016 5	-273 3	-138 6	295 7	17 26	16 50	-5 50	
3,174 0	74 57	202 97	3,026 3	-301 0	-151 2	325 4	17 19	14 56	-9 59	
3,206 0	77 12	201 08	3,034 1	-329 8	-162 8	355 9	9 81	7 97	-5 91	
3,238 0	81 34	197 28	3,040 1	-359 5	-173 1	387 0	17 60	13 19	-11 88	
3,270 0	86 17	192 94	3,043 6	-390 2	-181 4	418 8	20 24	15 09	-13 56	
3,302 0	88 90	191 51	3,045 0	-421 4	-188 2	450 7	9 63	8 53	-4 47	
"Coal Ent" 3302'MD / 3045'TVD										
3,334 0	87 49	189 64	3,046 0	-452 8	-194 1	482 7	7 32	-4 41	-5 84	
3,366 0	89 34	188 52	3,046 9	-484 4	-199 1	514 7	6 76	5 78	-3 50	
3,430 0	90 84	187 21	3,046 8	-547 8	-207 9	578 5	3 11	2 34	-2 05	
3,493 0	89 08	187 25	3,046 8	-610 3	-215 8	641 3	2 79	-2 79	0 06	
3,557 0	89 25	189 74	3,047 7	-673 6	-225 2	705 2	3 90	0 27	3 89	
3,621 0	88 55	190 40	3,049 0	-736 6	-236 4	769 2	1 50	-1 09	1 03	
3,684 0	89 25	191 06	3,050 2	-798 5	-248 2	832 2	1 53	1 11	1 05	
3,747 0	89 52	191 85	3,050 8	-860 2	-260 7	895 2	1 33	0 43	1 25	
3,811 0	87 23	191 92	3,052 7	-922 8	-273 8	959 1	3 58	-3 58	0 11	
3,875 0	87 58	190 83	3,055 6	-985 5	-286 5	1,023 1	1 79	0 55	-1 70	
3,938 0	86 79	189 74	3,058 7	-1,047 4	-297 7	1,086 0	2 14	-1 25	-1 73	
4,003 0	87 32	189 55	3,062 0	-1,111 4	-308 6	1,150 8	0 87	0 82	-0 29	
4,066 0	86 79	189 36	3,065 2	-1,173 5	-318 9	1,213 7	0 89	-0 84	-0 30	
4,130 0	87 14	188 58	3,068 6	-1,236 6	-328 9	1,277 6	1 33	0 55	-1 22	
4,194 0	88 20	187 80	3,071 2	-1,299 9	-338 0	1,341 4	2 06	1 66	-1 22	
4,257 0	88 46	187 36	3,073 1	-1,362 3	-346 3	1,404 2	0 81	0 41	-0 70	
4,322 0	88 29	186 51	3,074 9	-1,426 8	-354 1	1,468 9	1 33	-0 26	-1 31	
4,386 0	91 89	187 61	3,074 8	-1,490 3	-362 0	1,532 7	5 88	5 63	1 72	
4,450 0	91 36	188 46	3,073 0	-1,553 7	-370 9	1,596 6	1 56	-0 83	1 33	

Survey Report

Company:	Williams Energy	Local Co-ordinate Reference:	Site Sec35 T32N-R6W - 331A
Project:	Rio Arriba Co NM	TVD Reference:	WELL @ 6362 0usft (Original Well Elev)
Site:	Sec35 T32N-R6W - 331A	MD Reference:	WELL @ 6362 0usft (Original Well Elev)
Well:	Rosa Unit #331A STK	North Reference:	True
Wellbore:	STK-2	Survey Calculation Method:	Minimum Curvature
Design:	STK-2	Database:	EDM 5000 1 Single User Db

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)
4,514 0	89 96	189 04	3,072 2	-1,616 9	-380 7	1,660 5	2 37	-2 19	0 91
4,578 0	89 69	188 18	3,072 4	-1,680 2	-390 2	1,724 4	1 41	-0 42	-1 34
4,642 0	89 69	188 28	3,072 8	-1,743 5	-399 4	1,788 3	0 16	0 00	0 16
4,706 0	90 22	187 92	3,072 8	-1,806 9	-408 4	1,852 2	1 00	0 83	-0 56
4,769 0	88 90	187 53	3,073 3	-1,869 3	-416 9	1,915 0	2 18	-2 10	-0 62
4,834 0	86 53	187 61	3,075 9	-1,933 7	-425 4	1,979 8	3 65	-3 65	0 12
4,897 0	85 65	187 45	3,080 2	-1,996 0	-433 7	2,042 5	1 42	-1 40	-0 25
5,007 0	85 65	187 45	3,088 6	-2,104 8	-447 9	2,151 9	0 00	0 00	0 00

"Proj TD" 5007'MD / 3089'MD

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,302 0	3,045 0	-421 4	-188 2	"Coal Ent" 3302'MD / 3045'TVD
5,007 0	3,088 6	-2,104 8	-447 9	"Proj TD" 5007'MD / 3089'MD

Checked By: _____ Approved By: _____ Date: _____

5351
 1298
 249