Submit To Appropriate District Office
Two Copies
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 and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
July 17, 2008

1. WELL API NO.
30-039-29488

2 Type of Lease
☒ STATE ☐ FEE ☐ FED/INDIAN

3. State Oil & Gas Lease No. E-346

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

4 Reason for filing:

X **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5 Lease Name or Unit Agreement Name
Rosa Unit

6. Well Number
Rosa Unit #357A

7 Type of Completion:
NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☒ OTHER Horizontatal Sidetrack Recompletion

8 Name of Operator Williams Production Company, LLC

9. OGRID 120782

10 Address of Operator P.O. Box 640, Aztec, NM 87410

11. Pool name or Wildcat
Basin Fruitland Coal

12.Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	J	36	32N	6W		1368	SOUTH	1491	EAST	RIO ARRIBA
BH:	G	36	32N	6W		1838	NORTH	2380	EAST	RIO ARRIBA

13 Date Spudded	14. Date T.D. Reached	15 Date Rig Released	16 Date Completed (Ready to Produce)	17 Elevations (DF and RKB, RT, GR, etc.)
existing	8-11-11	8-23-11	8-23-11	6370'

18 Total Measured Depth of Well	19. Plug Back Measured Depth	20 Was Directional Survey Made?	21 Type Electric and Other Logs Run
5167' MD / 3077' TVD	5059' MD	YES	existing

22. Producing Interval(s), of this completion - Top, Bottom, Name
Basin Fruitland Coal 2719' – 5056' MD

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
existing					

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	2669'	5060'	none		2.875" 6+.5# J-80	3232'	

26 Perforation record (interval, size, and number)

Fruitland 2719'-5056' (preperforated liner – 28, 0.50" holes p/ft)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	Not stimulated

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod or Shut-in)* Shut in – waiting on tie in

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*

RECEIVED
AUG 2011
OIL CONS. DIV. DIST. 3

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30 Test Witnessed By

31. List Attachments
Wellbore diagram, EOW report, SD approval

32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit
See pit permit

33 If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude Longitude NAD 1927 1983

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Larry Higgins Printed Name Larry Higgins Title Permit Supervisor Date 08/25/11

E-mail Address larry.higgins@williams.com (505) 634-4208

ROSA UNIT #357A
BASIN FRUITLAND COAL

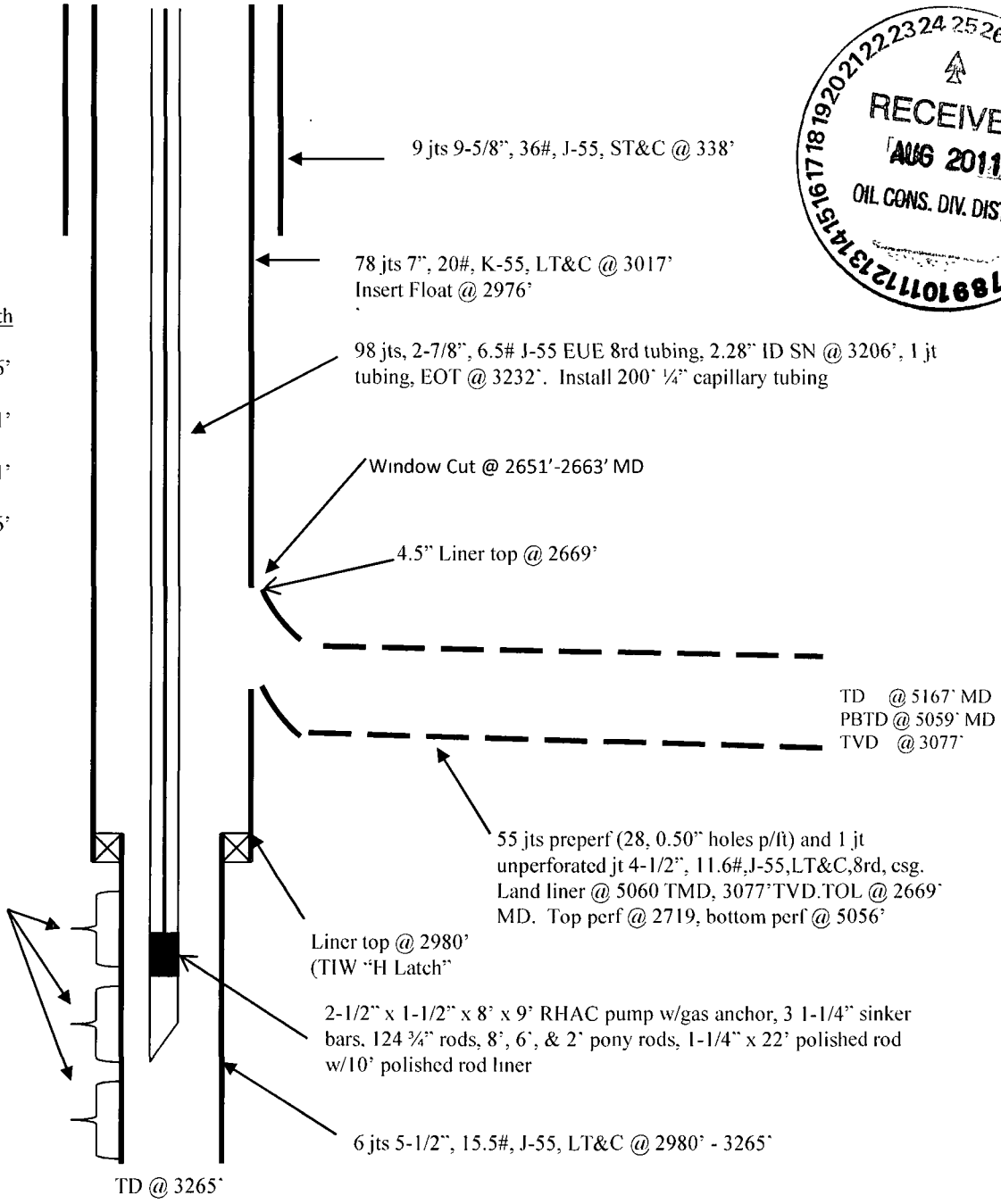
Location:
Sur: 1368' FSL and 1491' FEL
NW/4 SE/4 Sec 36(J), T32N, R6W
BHL: 1838 FNL and 2380' FEL
SE/4 NE/4 Sec 36 (G), T32N, R6W
Rio Arriba, New Mexico

Pumping Unit
Bethlehem C-80D-145-54

Elevation: 6370' GR
API # 30-039-29488

Spud	07/18/05
Completed	10/06/05
1st Delivery	10/14/05
Horiz reentry	08/23/11

Top	Depth
Ojo Alamo	2426'
Kirtland	2541'
Fruitland	2961'
Pictured Cliffs	3166'



12-1/4"	9-5/8", 36#	220 sx	310 cu. ft.	Surface
8-3/4"	7", 20#	550 sx	1125 cu. ft.	Surface
6-1/4"	4-1/2", 11.6#	Did Not Cmt		
6-1/4"	5-1/2", 15.5#	Did Not Cmt		

LH 8/25/11

Williams Energy

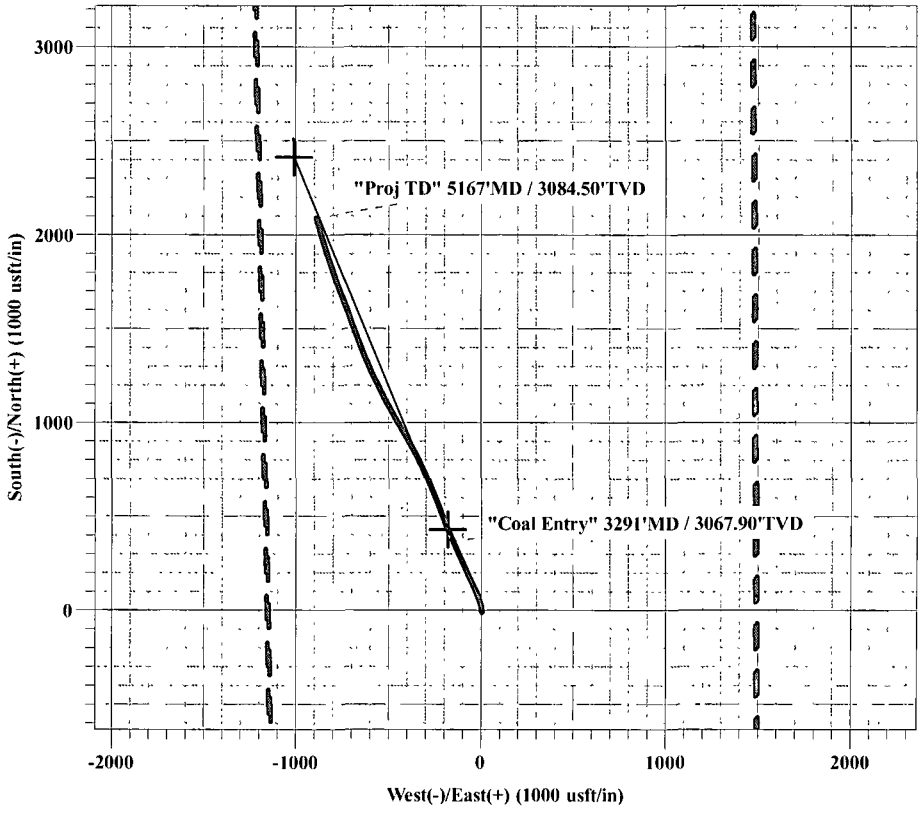
Rosa Unit #357A STK
Sec36 T32N-R6W - 357A
Rio Arriba Co. NM
GL: 6369' KB: 12'

PATHFINDER®
A Schlumberger Company

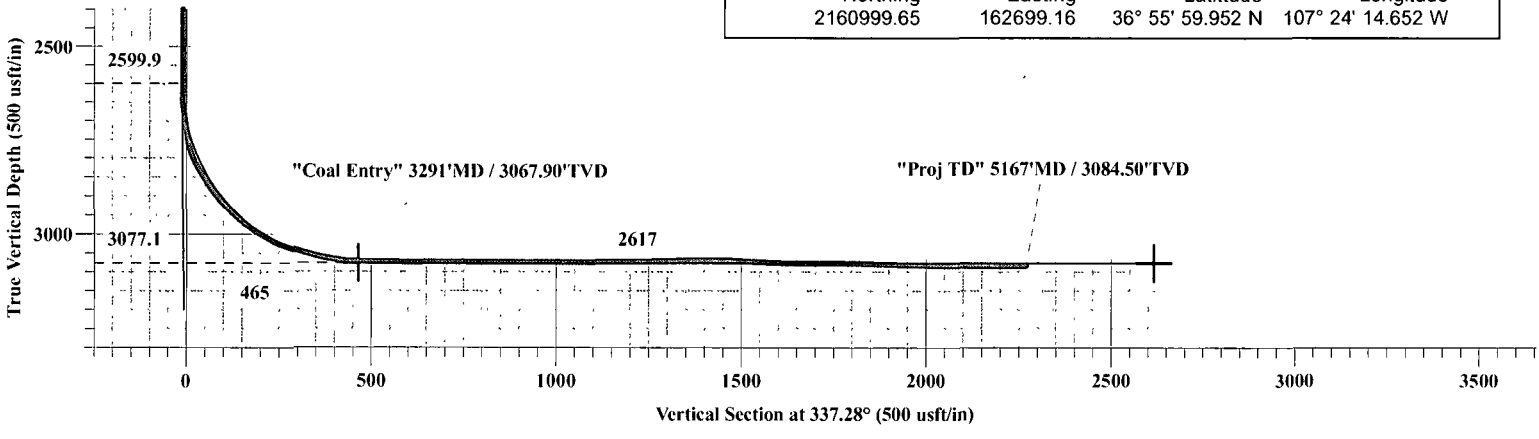
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
LAND-357A	3077 0	428 9	-180 0	2161430 70	162524.36	Point
TD-357A	3077 0	2414 0	-1011 3	2163425 71	161717 17	Point

EOW
No Hardline Crossed



WELL DETAILS. Rosa Unit #357A STK			
		6369 0	
Northing	Easting	Latittude	Longitude
2160999.65	162699.16	36° 55' 59.952 N	107° 24' 14.652 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
2600 0	0 28	185 09	2599 9	-8 9	4 5	0 00	0 00	-10 0	
3348 3	90 00	337 28	3077 1	428 9	-180 0	12 06	152 19	465 1	
5500 5	90 00	337 28	3077 0	2414 0	-1011 3	0 00	0 00	2617 3	TD-357A

Plan: Design #4 (Rosa Unit #357A STK/STK)

Created By: Frank C. Scardino Date: 8/02/2011

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec36 T32N-R6W - 357A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Site:	Sec36 T32N-R6W - 357A	**MD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Well:	Rosa Unit #357A 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 Sec36 T32N-R6W - 357A

Site Position:		**Northing:**	2,160,999 65 usft	**Latitude:**	36° 55' 59 952 N
From:	Lat/Long	**Easting:**	162,699 16 usft	**Longitude:**	107° 24' 14 652 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0 69 °

Well Rosa Unit #357A STK

Well Position	**+N/-S**	0 0 usft	**Northing:**	2,160,999.65 usft	**Latitude:**	36° 55' 59 952 N
	+E/-W	0 0 usft	**Easting:**	162,699 16 usft	**Longitude:**	107° 24' 14 652 W
Position Uncertainty		0 0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,369 0 usft

Wellbore STK

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/02/11	9 75	63 69	50,880

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	337 28

Survey Program **Date** 08/12/11

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200 0	5,167 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 24	93 74	200.0	0 0	0 4	-0 2	0 12	0.12	0 00
400 0	0 81	145 55	400 0	-1 2	1.6	-1.8	0 34	0 29	25 91
600.0	0 93	143 98	600 0	-3.7	3 4	-4 7	0 06	0 06	-0 79
800 0	0 62	150 74	799 9	-6 0	4 9	-7 4	0 16	-0 16	3 38
1,000.0	0 21	236 72	999 9	-7 1	5.1	-8.5	0.32	-0 21	42 99
1,200 0	0 12	211 07	1,199.9	-7 5	4 7	-8 7	0 06	-0 05	-12 83
1,400 0	0 21	278 75	1,399.9	-7.6	4.2	-8.6	0 10	0.05	33 84
1,600 0	0 23	278 20	1,599 9	-7 5	3 5	-8.2	0.01	0.01	-0 28
1,800 0	0 08	35 48	1,799 9	-7 3	3 1	-8 0	0 14	-0 08	58 64

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec36 T32N-R6W - 357A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Site:	Sec36 T32N-R6W - 357A	**MD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Well:	Rosa Unit #357A 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	0 10	227 90	1,999 9	-7 3	3 1	-7 9	0 09	0 01	-83.79
2,200 0	0 33	98 68	2,199 9	-7 5	3 5	-8.3	0 20	0 12	-64 61
2,400 0	0 28	149 56	2,399 9	-8 0	4.3	-9 1	0 13	-0 03	25.44
2,600 0	0 28	185 09	2,599 9	-8 9	4 5	-10 0	0 09	0 00	17 77
2,651 0	0 28	214 57	2,650 9	-9 2	4 5	-10 2	0 28	0 00	57 80
2,768 0	17 59	354 06	2,766 1	8.3	2 5	6 7	15 22	14 79	119 22
2,800 0	23 57	348 63	2,796 1	19 4	0 7	17 6	19 60	18 69	-16 97
2,832 0	28 75	343 85	2,824 8	33 1	-2 7	31 6	17 46	16 19	-14.94
2,864 0	32 45	341 88	2,852 3	48 6	-7 5	47 8	11 98	11 56	-6 16
2,896 0	36 32	339 91	2,878 7	65 7	-13 5	65 8	12 58	12 09	-6 16
2,928 0	40 19	336 76	2,903 9	84 1	-20 8	85 6	13 54	12 09	-9 84
2,960 0	43 97	334 64	2,927 6	103 6	-29 6	107 0	12 62	11 81	-6 63
2,991.0	48 10	333 86	2,949 1	123 7	-39 3	129 3	13 44	13 32	-2 52
3,023 0	52 50	334 37	2,969 6	145 9	-50 1	153 9	13 80	13 75	1 59
3,055 0	56 54	334 90	2,988 1	169 4	-61 2	179 9	12 70	12 63	1 66
3,087 0	59 53	335 93	3,005 1	194 1	-72 5	207 0	9 73	9 34	3 22
3,119 0	64 63	336 09	3,020 0	219 9	-84 0	235 3	15 94	15 94	0 50
3,151 0	69 91	334 91	3,032 4	246 8	-96 2	264 8	16 85	16 50	-3 69
3,183 0	73 16	334 55	3,042 5	274 2	-109 2	295 1	10 21	10.16	-1 13
3,215 0	75 01	336 15	3,051 3	302 2	-122 0	325 9	7 52	5 78	5 00
3,246 0	75 97	336 01	3,059 1	329 6	-134 2	355 9	3 13	3 10	-0.45
3,278 0	79 84	335 11	3,065 8	358 1	-147 1	387 1	12 40	12 09	-2 81
3,291 0	81 49	334 79	3,067 9	369 7	-152 6	400 0	12 89	12 65	-2 48
"Coal Entry" 3291'MD / 3067.90'TVD									
3,310 0	83 89	334 32	3,070 3	386 7	-160 7	418 8	12 89	12 66	-2 46
3,340 0	86 97	335 66	3,072 7	413 8	-173 3	448 7	11 19	10 27	4 47
3,372 0	89 60	338 62	3,073 7	443 3	-185 7	480 6	12 37	8 22	9 25
3,436 0	89 08	338 93	3,074 4	503 0	-208 9	544 6	0 95	-0 81	0 48
3,499 0	90 57	338 57	3,074 6	561 7	-231 7	607 6	2 43	2.37	-0 57
3,563 0	89 69	337 03	3,074 4	620 9	-255 9	671 6	2 77	-1 38	-2 41
3,626.0	90 13	336 90	3,074 5	678 9	-280.6	734 6	0 73	0 70	-0 21
3,689 0	90 22	336 06	3,074 4	736 7	-305 7	797 6	1 34	0 14	-1 33
3,754 0	89 52	332 97	3,074 5	795 3	-333 7	862 5	4 87	-1 08	-4 75
3,818 0	89 08	331 39	3,075 3	851 9	-363 5	926 2	2 56	-0 69	-2 47
3,882 0	89 43	330.77	3,076 1	907 9	-394 5	989 8	1 11	0 55	-0 97
3,946 0	91 80	329 65	3,075 4	963 5	-426 3	1,053 4	4 10	3 70	-1 75
4,009 0	89 96	328 68	3,074 5	1,017 6	-458 6	1,115 7	3 30	-2 92	-1 54
4,073 0	89 96	330 72	3,074 5	1,072 8	-490 8	1,179 1	3 19	0 00	3 19
4,136 0	91 89	332 25	3,073 5	1,128 2	-520 9	1,241 8	3 91	3 06	2 43
4,199 0	92.15	333 19	3,071 3	1,184.1	-549 8	1,304 6	1 55	0.41	1 49
4,262 0	90 48	333 95	3,069 8	1,240 5	-577 8	1,367 4	2 91	-2 65	1 21
4,325 0	89 52	335 27	3,069 8	1,297 4	-604 8	1,430 4	2.59	-1 52	2 10
4,389 0	86 97	336 45	3,071 8	1,355 8	-631 0	1,494 3	4 39	-3 98	1 84
4,453 0	86 97	338 82	3,075 2	1,414 9	-655 3	1,558 2	3 70	0 00	3 70

Survey Report

Company:	Williams Energy	**Local Co-ordinate Reference:**	Site Sec36 T32N-R6W - 357A
Project:	Rio Arriba Co NM	**TVD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Site:	Sec36 T32N-R6W - 357A	**MD Reference:**	WELL @ 6381 0usft (Original Well Elev)
Well:	Rosa Unit #357A 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)
4,518 0	88 11	339 49	3,078 0	1,475 6	-678 4	1,623 1	2 03	1 75	1 03
4,581 0	91 54	340 69	3,078 1	1,534 8	-699 9	1,686 0	5 77	5 44	1 90
4,644 0	89 52	340 29	3,077 6	1,594 2	-720 9	1,748 9	3 27	-3 21	-0 63
4,707 0	88 90	339 05	3,078 4	1,653 3	-742 8	1,811 8	2 20	-0 98	-1 97
4,770 0	88 20	337.49	3,080 0	1,711.8	-766 1	1,874 8	2 71	-1 11	-2 48
4,835 0	88 37	340 07	3,082 0	1,772.3	-789 6	1,939.8	3 98	0 26	3 97
4,899 0	89 08	341 92	3,083 4	1,832 8	-810 4	2,003 6	3 10	1 11	2 89
4,962 0	89 60	342 24	3,084 1	1,892 8	-829 8	2,066 4	0 97	0 83	0 51
5,026 0	88 55	342 84	3,085 2	1,953 8	-849 0	2,130 1	1 89	-1.64	0 94
5,090 0	90 75	343 55	3,085 5	2,015 1	-867 5	2,193 8	3 61	3 44	1 11
5,167 0	90 75	343 55	3,084 5	2,088 9	-889 3	2,270 3	0 00	0 00	0 00
"Proj TD" 5167'MD / 3084 50'TVD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,291 0	3,067 9	369 7	-152 6	"Coal Entry" 3291'MD / 3067 90'TVD
5,167 0	3,084 5	2,088 9	-889 3	"Proj TD" 5167'MD / 3084 50'TVD

Checked By _____ Approved By _____ Date _____

New Mexico Energy, Minerals and Natural Resources Department

August 1, 2011

Williams Production Company
Attn: Ms. Heather Williams
P.O. Box 640
Aztec, NM 87410

Administrative Order SD-201108

Re: Rosa Unit Well No. 357A
API No. 30-039-29488
1370 feet FSL & 1490 feet FEL
Unit J, Section 36, Twsp 32N, Range 6W
Rio Arriba County, New Mexico

Dear Ms. Riley:

Reference is made to the following:

(a) your application **(administrative SD application reference No. pUNK11-18249083)** submitted to the New Mexico Oil Conservation Division (the Division) in Santa Fe, New Mexico on June 30, 2011; and

(b) the Division's records pertinent to your request.

Williams Production Company [OGRID 120782] (Williams) has requested to simultaneously dedicate the E/2 of Section 36, Township 32 North, Range 6 West in Rio Arriba County, New Mexico, in the Basin Fruitland Coal Gas Pool (71629), to:

(a) its proposed Rosa Unit Well No. 357A (API No. 30-039-29488) (the proposed well), a horizontal gas well to be drilled from a surface location 1370 feet from the South line and 1490 feet from the East line (Unit J) of Section 36 to point of penetration of the Basin Fruitland Coal Gas Pool, 1736 feet from the South line and 1647 feet from the East line (Unit J) of said section,

and thence to a terminus, or bottom-hole location, 1520 feet from the North line and 2500 feet from the East line (Unit G) of said section; and

(b) its existing Rosa Unit Well No. 357 (API No. 30-039-26398) (the existing well), a vertical gas well drilled to the Basin Fruitland Coal Gas Pool, located 1045 feet from the North line and 1605 feet from the East line (Unit B) of Section 36.

The E/2 of Section 36 is a standard 320-acre gas spacing unit in the Basin Fruitland Coal Gas Pool. Applicable well density rules for this pool allow two wells to be completed in the unit, but require that the wells be in different quarter sections. Because the proposed well will be completed within both quarter sections of this 320-acre unit, including the northeast quarter, in which the existing well is also completed, division approval for simultaneous dedication is required.

Your application has been duly filed under the provisions of Division Rules 15.11.C [19.15.15.11.C NMAC] and 4.12.A [19.15.4.12.A NMAC].

It is our understanding you have proposed the simultaneous dedication of this unit to the two wells described for geological reasons, in order to prevent waste and maximize production from this unit. We further understand that all affected persons in offsetting units within the Fruitland Coal formation have been duly notified of this application.

Pursuant to the authority granted by Rule 15.11.C, the above-described simultaneous dedication is herby approved.

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Jami Bailey
Director

JB/db

cc: New Mexico Oil Conservation Division – Aztec
United States Bureau of Land Management