



March 2, 2011

Bureau of Land Management (3 copies)
Farmington Resource Area
Attn: Wayne Townsend
1235 La Plata Highway
Farmington, New Mexico 87401

State of New Mexico (2 copies)
Commissioner of Public Lands
Attn: Mr. Pete Martinez
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico (2 copies)
Oil Conservation Division
Attn: Ed Martin
1200 South St. Francis Drive
P.O. Box 2308
Santa Fe, New Mexico 87504-2308

RECEIVED OCD
2011 MAR 10 P 12:46

Re: Rosa Unit I, Sec. No 587
Rosa Dakota Formation
San Juan and Rio Arriba Counties, New Mexico
NOTICE OF COMPLETION OF COMMERCIAL WELLS

Gentlemen:

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement I Sec. No. 587, Williams Production Company, LLC, as Unit Operator, has determined that the Rosa Unit #9C, #12D, #18C, #25C, #35D, #72B, #129D, #137C, #145D, #162C, #166B, #168C, #169D, #180D, are capable of producing unitized substances in paying quantities from the Dakota Formation.

WELL DATA

The ROSA Unit #9C DAKOTA Formation Well (commercial) is located 380 feet from the South Line and 1135 feet from the West Line, Section 28 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on October 28, 2008 and completed in the Dakota formation on April 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8007' to 8196'. This well has a 2.875" tubing string. This well was shut in with a SICP of 8 psig. On April 23, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 434 MCFD.

8007' to 8196'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.32% and is therefore determined commercial.

The ROSA Unit #12D DAKOTA Formation Well (commercial) is located 1905 feet from the North Line and 595 feet from the East Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 20, 2009 and completed in the Dakota formation on July 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7903' to 7992'. This well has a 2.375" tubing string. This well was shut in with a SICP of 0 psig. On July 28, 2009 the well was tested and after flowing for 1 hour through a 3/8" choke on the 2.375" tubing, the well gauged 1954 MCFD.

7903' to 7992'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.55% and is therefore determined commercial.

The ROSA Unit #18C DAKOTA Formation Well (commercial) is located 1490 feet from the North Line and 990 feet from the East Line, Section 22 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 7, 2009 and completed in the Dakota formation on August 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8049' to 8122'. This well has a 2.375" tubing string. This well was shut in with a SICP of 420 psig. On August 20, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 604 MCFD.

8049' to 8122'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.13% and is therefore determined commercial.

WELLDATA

The ROSA Unit #25C DAKOTA Formation Well (commercial) is located 1130 feet from the South Line and 1560 feet from the West Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 15, 2009 and completed in the Dakota formation on November 22, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8041' to 8137'. This well has a 2.375" tubing string. This well was shut in with a SICP of 490 psig. On November 22, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 704 MCFD.

8041' to 8137'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.49% and is therefore determined commercial.

The ROSA Unit #35D DAKOTA Formation Well (commercial) is located 1020 feet from the South Line and 705 feet from the East Line, Section 5 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 1, 2009 and completed in the Dakota formation on November 3, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7847' to 7989'. This well has a 2.375" tubing string. This well was shut in with a SICP of 650 psig. On November 3, 2009 the well was tested and after flowing for 2 hours through a 16/64" choke on the 2.375" tubing, the well gauged 234 MCFD.

7847' to 7989'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.19% and is therefore determined commercial.

The ROSA Unit #72B DAKOTA Formation Well (commercial) is located 2260 feet from the South Line and 660 feet from the East Line, Section 6 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 7, 2009 and completed in the Dakota formation on May 14, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8405' to 8517'. This well has a 2.375" tubing string. This well was shut in with a SICP of 8 psig. On May 13, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 400 MCFD.

8405' to 8517'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 23.68% and is therefore determined commercial.

WELLDATA

The ROSA Unit #129D DAKOTA Formation Well (commercial) is located 1670 feet from the South Line and 2000 feet from the West Line, Section 34 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 10, 2009 and completed in the Dakota formation on October 11, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8010' to 8088'. This well has a 2.375" tubing string. This well was shut in with a SICP of 850 psig. On October 10, 2009 the well was tested and after flowing for 2 hours through a 1/4" choke on the 2.375" tubing, the well gauged 305 MCFD.

8010' to 8088'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 10.37% and is therefore determined commercial.

The ROSA Unit #137C DAKOTA Formation Well (commercial) is located 730 feet from the South Line and 2175 feet from the East Line, Section 31 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 25, 2009 and completed in the Dakota formation on May 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7870' to 7963'. This well has a 2.375" tubing string. This well was shut in with a SICP of 1.5 psig. On May 26, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 752 MCFD.

7870' to 7963'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.25% and is therefore determined commercial.

The ROSA Unit #145D DAKOTA Formation Well (commercial) is located 610 feet from the North Line and 610 feet from the East Line, Section 16 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on September 17, 2009 and completed in the Dakota formation on November 5, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8098' to 8235'. This well has a 2.375" tubing string. This well was shut in with a SICP of 580 psig. On November 5, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 834 MCFD.

8098' to 8235'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 36.18% and is therefore determined commercial.

WELLDATA

The ROSA Unit #162C DAKOTA Formation Well (commercial) is located 935 feet from the South Line and 2200 feet from the East Line, Section 30 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 8, 2009 and completed in the Dakota formation on July 13, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7922' to 8019'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On June 11, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 869 MCFD.

7922' to 8019'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 11.81% and is therefore determined commercial.

The ROSA Unit #166B DAKOTA Formation Well (commercial) is located 2305 feet from the North Line and 2305 feet from the East Line, Section 30 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 13, 2008 and completed in the Dakota formation on June 30, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 7898' to 8502'. This well has a 2.875" tubing string. This well was shut in with a SICP of 20 psig. On June 25, 2010 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 217 MCFD. This completion was shut in for almost two years to allow the Mancos formation to produce solely. As a result, the revised test date and delivery for this well is May 20, 2010 per agreement with the BLM.

7898' to 8502'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.07% and is therefore determined commercial.

The ROSA Unit #168C DAKOTA Formation Well (commercial) is located 1275 feet from the North Line and 280 feet from the East Line, Section 28 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 6, 2009 and completed in the Dakota formation on May 14, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8337' to 8442'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On May 9, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 800 MCFD.

8337' to 8442'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 25.17% and is therefore determined commercial.

WELLDATA

The ROSA Unit #169D DAKOTA Formation Well (commercial) is located 2395 feet from the South Line and 1720 feet from the East Line, Section 3 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 24, 2009 and completed in the Dakota formation on October 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8054' to 8236'. This well has a 2.375" tubing string. This well was shut in with a SICP of 310 psig. On October 26, 2009 the well was tested and after flowing for 2 hours through a 3/4" choke on the 2.375" tubing, the well gauged 1002 MCFD.

8054' to 8236'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 21.31% and is therefore determined commercial.

The ROSA Unit #180D DAKOTA Formation Well (commercial) is located 935 feet from the South Line and 1935 feet from the West Line, Section 9 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on August 28, 2009 and completed in the Dakota formation on November 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8272' to 8390'. This well has a 2.375" tubing string. This well was shut in with a SICP of 540 psig. On November 23, 2009 the well was tested and after flowing for 1 hour through a 24/64" choke on the 2.375" tubing, the well gauged 445 MCFD.

8272' to 8390'

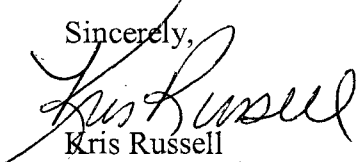
Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 10.01% and is therefore determined commercial.

If these determinations meet with your approval, please indicate such approval in the space provided and return an approved copy for our files.

The Well Data, Reserves and Economics are attached.

This information is also being sent to the Rosa Unit working interest owners on the attached sheet.

Sincerely,



Kris Russell

Land Data Technician Sr
Williams Production Company, LLC
P.O. Box 3102
Tulsa, OK 74101
918/573-6181
Kris.russell@williams.com

APPROVED _____ DATE _____

Assistant District Manager, Minerals
Bureau of Land Management
Subject to like approval by the
Commission of Public Lands
And the Oil Conservation Commission

APPROVED _____ DATE _____

Commissioner of Public Lands
Subject to like approval by the
Bureau of Land Management
And The Commissioner of Public Lands

APPROVED _____ DATE _____

Oil Conservation Commission
Subject to like approval by the
Bureau of Land Management
And The Commissioner of Public Lands

The forgoing is the approval of Notice of Completion of Commercial wells for the Rosa
##9C, #12D, #18C, #25C, #35D, #72B, #129D, #137C, #145D, #162C, #166B, #168C,
#169D, #180D, Dakota formation wells.

WORKING INTEREST OWNERS
ROSA UNIT

BP AMERICA PRODUCTION CO.
ATTN: DONNA JONES
P.O. BOX 3092
HOUSTON, TX 77253

SCHULTZ MANAGEMENT, LTD.
500 N. AKARD, SUITE 2940
DALLAS, TX 75201

MS. ELIZABETH T. CALLOWAY
P.O. BOX 191767
DALLAS, TX 75219-1767

FRED E. TURNER, LLC
4925 GREENVILLE AVE., SUITE 852
DALLAS, TX 75206-4079

J. GLENN TURNER, JR. LLC
4809 COLE AVE., SUITE 212
DALLAS, TX 75205

XTO ENERGY, INC.
ATTN: EDWIN S. RYAN, JR.
810 HOUSTON STREET, STE 2000
FORT WORTH, TX 76102-6298

MARY FRANCES TURNER, JR TRUST
ATTN: SHERI ANDERSON
TX1-2931
P O BOX 660197
DALLAS, TX 75266-0197

MR. JOHN TURNER
PO BOX 329
PORT ARANSAS, TX 78373

PATRICIA P. SCHIEFFER TRUST, BANK OF AMERICA, N.A. AGT
ATTN: BILL BLEDSOE
P.O. BOX 2546
FORT WORTH, TX 76113-2546

OMIMEX PETROLUEM, INC.
ATTN: CLARK P. STORMS
2001 BEACH ST., SUITE 810
FORT WORTH, TX 76103

MS. VICTORIA WEBB
806 CORDOVA
DALLAS, TX 75223

HENRIETTA E. SCHULTZ, TRUSTEE
500 NORTH AKARD, SUITE 2940
DALLAS, TX 75201

SACRAMENTO MUNICIPAL UTILITIES DISTRICT
ATTN: BARRY BRUNELLE
P. O. BOX 15830
SACRAMENTO, CA 95852-1830

CONOCOPHILLIPS COMPANY
ATTN: ROB HELTON
P. O. BOX 4289
FARMINGTON, NM 87499-4289

February 24, 2011

The ROSA Unit #9C DAKOTA Formation Well (commercial) is located 380 feet from the South Line and 1135 feet from the West Line, Section 28 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on October 28, 2008 and completed in the Dakota formation on April 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8007' to 8196'. This well has a 2.875" tubing string. This well was shut in with a SICP of 8 psig. On April 23, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 434 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.32% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #009C | 1PDP | DAKOTA | J7PK7RMS20 | 62209257
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 06/2009	SJ_OP_POST
GAS 477 X M/D 3 MO B/1.5221 69	SJ_OP_POST
" 149 X M/D 16 IMO FLAT 0	SJ_OP_POST
" X X M/D 5 EXP B/1.3 37	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 08/2008 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 1875 RSV CAT: 1PDP
 Well Name: ROSA UNIT #009C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 09:57:19
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	06/2009										
401 GAS	477.00	X	M/D	3.00	MO	B/1.5221	69.00	32.632	8/2009	69.0000	14509.
402 "	149.00	X	M/D	16.00	IMO	FLAT	0.00	105.145	12/2010		8550.
403 "	X	X	M/D	5.00	EXP	B/1.3	37.00	329.903	9/2024	4532.	4532.
404 "	X	X	M/D	30.00	YRS	EXP	5.00	411.130	5/2039	5.0000	657.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010		
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00		5/2039	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00		5/2039	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00		5/2039	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00		5/2039	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00		5/2039	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00		5/2039	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00		5/2039	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		5/2039		
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		5/2039		
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00		5/2039		
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		5/2039		
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		5/2039		
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		5/2039		
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		5/2039		
914 GAS	01/2009	0	0	0	8338	10963	11640	4940	0	3302.4	#
915 "	X	4306.56	4273.92	4447.44	4019.04	4452.24	4308.72	#		64.991	4/2010
916 "	X	4450.8	4035.38	4449.25	4603.75	4485	3910.5	4488.5	#	95.414	11/2010
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R
800 CAPITAL	125.19	500.77	M\$G	08/2008	AD	ESC	INV	625.961	8/2008	0	625.9

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00
 203 CUMO, MB 0.00 CUMG, MMF 1.00 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 1875 RSV CAT: 1PDP
 Well Name: ROSA UNIT #009C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 09:57:19
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		47.764		0.000		34.103		0.00	2.429	1.0	0.000	82.836	82.836
12-2010	0.000		52.183		0.000		45.138		0.00	3.635	1.0	0.000	164.058	164.058
12-2011	0.000		42.559		0.000		36.813		0.00	4.734	1.0	0.000	174.271	174.271
12-2012	0.000		29.526		0.000		25.540		0.00	4.734	1.0	0.000	120.903	120.903
12-2013	0.000		23.112		0.000		19.992		0.00	4.734	1.0	0.000	94.640	94.640
12-2014	0.000		19.209		0.000		16.616		0.00	4.734	1.0	0.000	78.659	78.659
12-2015	0.000		16.554		0.000		14.319		0.00	4.734	1.0	0.000	67.784	67.784
12-2016	0.000		14.615		0.000		12.642		0.00	4.734	1.0	0.000	59.848	59.848
12-2017	0.000		13.131		0.000		11.358		0.00	4.734	1.0	0.000	53.770	53.770
12-2018	0.000		11.953		0.000		10.340		0.00	4.734	1.0	0.000	48.947	48.947
12-2019	0.000		10.994		0.000		9.509		0.00	4.734	1.0	0.000	45.017	45.017
12-2020	0.000		10.194		0.000		8.818		0.00	4.734	1.0	0.000	41.744	41.744
12-2021	0.000		9.517		0.000		8.233		0.00	4.734	1.0	0.000	38.972	38.972
12-2022	0.000		8.936		0.000		7.729		0.00	4.734	1.0	0.000	36.590	36.590
12-2023	0.000		8.430		0.000		7.292		0.00	4.734	1.0	0.000	34.518	34.518
S TOT	0.000		318.677		0.000		268.443		0.00	4.256	1.0	0.000	1142.557	1142.557
AFTER	0.000		87.255		0.000		75.476		0.00	4.734	1.0	0.000	357.296	357.296
TOTAL	0.000		405.932		0.000		343.919		0.00	4.361	1.0	0.000	1499.853	1499.853
--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----								8.0%
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$		
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2008	0.000	0.000	0.000	0.000	125.192	500.769	0.000	625.961	-625.961		-583.323			
12-2009	6.848	4.900	0.000	71.088	0.000	0.000	0.000	0.000	71.088		-521.589			
12-2010	13.563	8.400	0.000	142.094	0.000	0.000	0.000	0.000	142.094		-407.334			
12-2011	14.407	8.400	0.000	151.463	0.000	0.000	0.000	0.000	151.463		-294.567			
12-2012	9.995	8.400	0.000	102.508	0.000	0.000	0.000	0.000	102.508		-223.901			
12-2013	7.824	8.400	0.000	78.416	0.000	0.000	0.000	0.000	78.416		-173.848			
12-2014	6.503	8.400	0.000	63.756	0.000	0.000	0.000	0.000	63.756		-136.167			
12-2015	5.604	8.400	0.000	53.781	0.000	0.000	0.000	0.000	53.781		-106.735			
12-2016	4.948	8.400	0.000	46.500	0.000	0.000	0.000	0.000	46.500		-83.174			
12-2017	4.445	8.400	0.000	40.924	0.000	0.000	0.000	0.000	40.924		-63.973			
12-2018	4.047	8.400	0.000	36.501	0.000	0.000	0.000	0.000	36.501		-48.116			
12-2019	3.722	8.400	0.000	32.895	0.000	0.000	0.000	0.000	32.895		-34.885			
12-2020	3.451	8.400	0.000	29.893	0.000	0.000	0.000	0.000	29.893		-23.751			
12-2021	3.222	8.400	0.000	27.350	0.000	0.000	0.000	0.000	27.350		-14.319			
12-2022	3.025	8.400	0.000	25.165	0.000	0.000	0.000	0.000	25.165		-6.284			
12-2023	2.854	8.400	0.000	23.264	0.000	0.000	0.000	0.000	23.264		0.594			
S TOT	94.459	122.500	0.000	925.599	125.192	500.769	0.000	625.961	299.638		0.594			
AFTER	29.539	129.500	0.000	198.257	0.000	0.000	0.000	0.000	198.257		37.785			
TOTAL	123.997	252.000	0.000	1123.856	125.192	500.769	0.000	625.961	497.895		37.785			

PropID: 1875 RSV CAT: 1PDF
 Well Name: ROSA UNIT #009C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 09:57:19
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

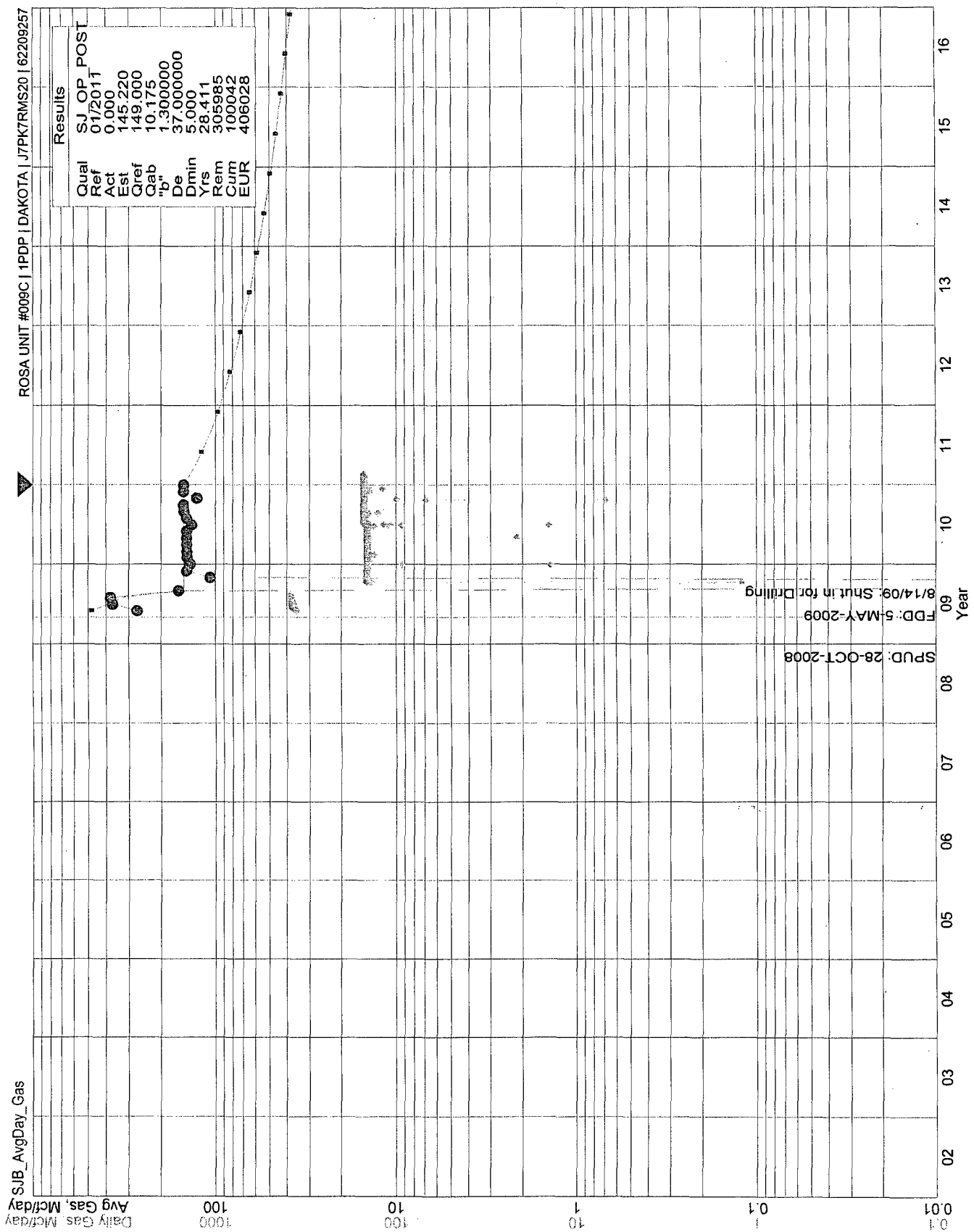
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0% CUM. DISC
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	ATAX
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	500.769	0.000	-500.769	0.000	-175.269	-450.692	-418.941
12-2009	71.088	28.110	0.000	0.000	0.000	42.978	0.000	15.042	56.046	-370.271
12-2010	142.094	27.738	0.000	0.000	0.000	114.356	0.000	40.025	102.070	-288.199
12-2011	151.463	19.810	0.000	0.000	0.000	131.654	0.000	46.079	105.384	-209.738
12-2012	102.508	14.151	0.000	0.000	0.000	88.357	0.000	30.925	71.583	-160.391
12-2013	78.416	11.175	0.000	0.000	0.000	67.240	0.000	23.534	54.882	-125.360
12-2014	63.756	11.171	0.000	0.000	0.000	52.585	0.000	18.405	45.351	-98.556
12-2015	53.781	11.175	0.000	0.000	0.000	42.605	0.000	14.912	38.869	-77.285
12-2016	46.500	1.861	0.000	0.000	0.000	44.639	0.000	15.624	30.876	-61.640
12-2017	40.924	0.000	0.000	0.000	0.000	40.924	0.000	14.324	26.601	-49.160
12-2018	36.501	0.000	0.000	0.000	0.000	36.501	0.000	12.775	23.725	-38.853
12-2019	32.895	0.000	0.000	0.000	0.000	32.895	0.000	11.513	21.382	-30.252
12-2020	29.893	0.000	0.000	0.000	0.000	29.893	0.000	10.463	19.431	-23.015
12-2021	27.350	0.000	0.000	0.000	0.000	27.350	0.000	9.573	17.778	-16.885
12-2022	25.165	0.000	0.000	0.000	0.000	25.165	0.000	8.808	16.357	-11.662
12-2023	23.264	0.000	0.000	0.000	0.000	23.264	0.000	8.143	15.122	-7.191
S TOT	925.599	125.192	0.000	500.769	0.000	299.638	0.000	104.873	194.764	-7.191
AFTER	198.257	0.000	0.000	0.000	0.000	198.257	0.000	69.390	128.867	16.983
TOTAL	1123.856	125.192	0.000	500.769	0.000	497.895	0.000	174.263	323.632	16.983

BTAX RATE OF RETURN (PCT)	9.32	ATAX RATE OF RETURN (PCT)	8.88
BTAX PAYOUT YEARS	7.64	ATAX PAY OUT YEARS	7.73
BTAX PAYOUT YEARS (DISC)	16.25	ATAX PAY OUT YEARS (DISC)	18.35
BTAX NET INCOME/INVEST	1.80	ATAX NET INCOME/INVEST	1.52
BTAX NET INCOME/INVEST (DISC)	1.06	ATAX NET INCOME/INVEST (DISC)	1.03
PRODUCTION START DATE	06/2009	PROJECT LIFE (YEARS)	31.75
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.464
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.734
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-8.338
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	405.932
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	397.594
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	113.732	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND ---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	497.9	323.6	497.9
2.00	329.0	211.5	298.0
5.00	154.4	95.1	123.5
8.00	37.8	17.0	20.9
10.00	-19.6	-21.6	-25.9
12.00	-65.6	-52.5	-62.0
15.00	-119.0	-88.7	-102.2
18.00	-159.2	-115.8	-131.1
20.00	-180.6	-130.3	-146.1
25.00	-220.5	-157.3	-173.0
30.00	-247.1	-175.3	-190.1
35.00	-265.0	-187.4	-200.9
40.00	-277.0	-195.4	-207.7
45.00	-284.8	-200.5	-211.6
50.00	-289.5	-203.6	-213.6

SJB_AvgDay_Gas



Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	145.220
Gref	149.000
Gab	10.175
"b"	1.3000000
De	37.0000000
Dmin	5.000
Yrs	28.411
Rem	305985
Cum	100042
EUR	406028

ROSA UNIT #009C

BLANCO MV/BASIN MANCOS/BASIN DK

Surface Location:

380' FSL and 1135' FWL
SW/4 SW/4 Sec 11(M), T31N, R06W
Rio Arriba, NM

Bottom Hole Location:

402' FSL and 438' FWL
SW/4 SW/4 Sec 11(M), T31N, R06W
Rio Arriba, NM

Elevation: 6386' GR

API # 30-039-30179

Spud: 10-28-08

Completed DK: 4-24-09

1st Delivery DK: 5-5-09

Completed MV/MC 10-6-09

1st Delivery MV/MC 00-00-00

Top	MD Depth	TVD Depth
Pictured Cliffs	3334'	3209'
Lewis	3628'	3502'
Cliffhouse Ss.	5530'	5404'
Menefee	5574'	5448'
Point Lookout	5813'	5687'
Mancos	6232'	6106'
Dakota	8006'	7878'

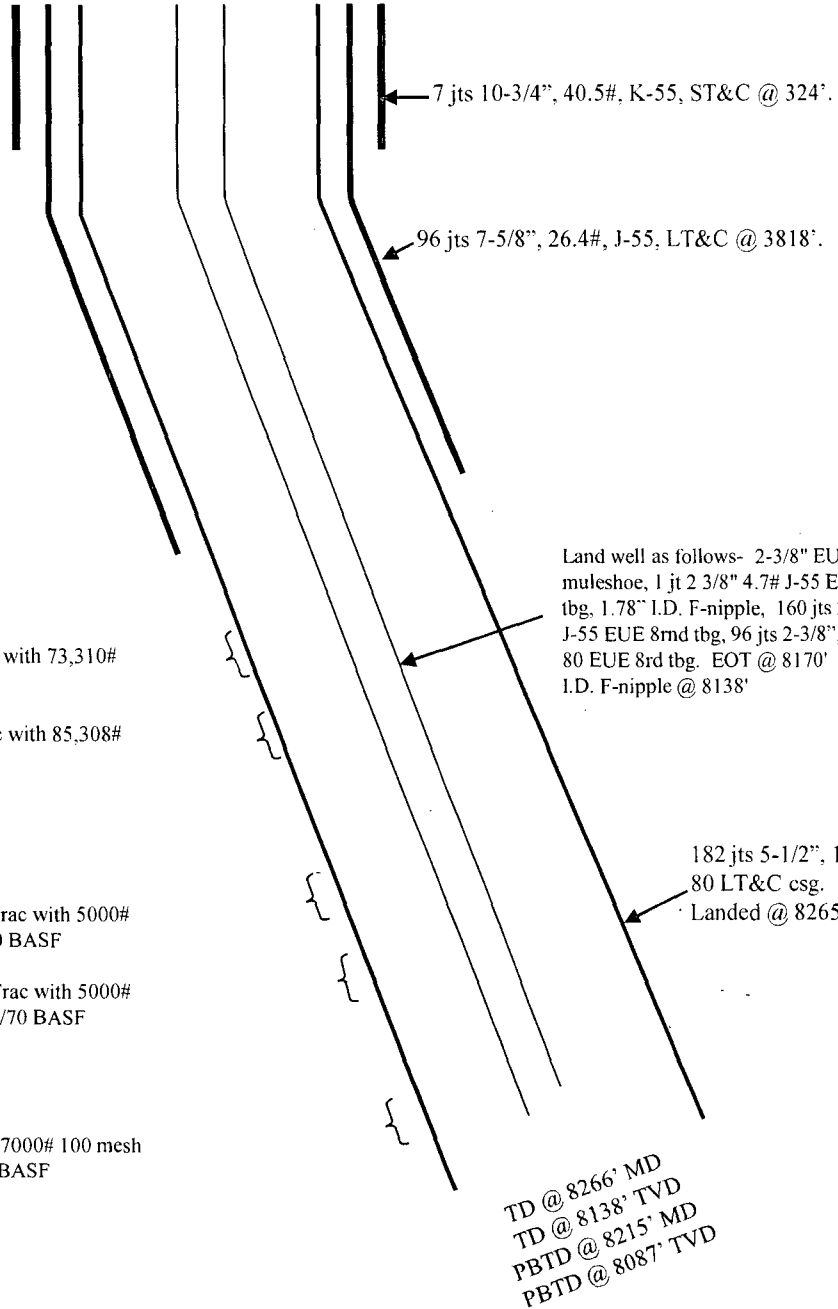
Upper MV: 5540'-5756' (49, 0.34" holes) Frac with 73,310#
20/40 mesh BASF

Lower MV: 5814'-5906' (38, 0.34" holes) Frac with 85,308#
20/40 mesh BASF

Upper Mancos: 6965'-7190' (51, 0.34" holes) Frac with 5000#
100 mesh followed with 104,000# 40/70 BASF

Lower Mancos: 7270'-7430' (51, 0.34" holes) Frac with 5000#
100 mesh BASF followed with 97,300# 40/70 BASF

Dakota: 8007'-8196' (78, 0.34" holes) Frac with 7000# 100 mesh
BASF followed with 110,145# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	250 sxs	348 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	580 sxs	1152 cu.ft.	Surface
6-3/4"	5-1/2", 17#	195 sxs	455 cu.ft.	4350' CBL

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

Form C-10
Revised June 10, 200

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

Submit to Appropriate District Office
5 Copy

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30179	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 009C

II. ¹⁰ Surface Location

UL or lot no. M	Section 11	Township 31N	Range 6W	Lot Idn	Feet from the 380	North/South Line SOUTH	Feet from the 1135	East/West line WEST	County RIO ARriba

¹¹ Bottom Hole Location

UL or lot no. M	Section 11	Township 31N	Range 6W	Lot Idn	Feet from the 380	North/South line SOUTH	Feet from the 330	East/West line WEST	County RIO ARriba

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCUD MAY 1 '09

OIL CONS. DIV.
DIST. 3

IV. Well Completion Data NOTE: Mesaverde and Mancos to be completed at a later date

²¹ Spud Date 10/28/08	²² Ready Date 4/24/09	²³ TD 8266' MD - 8138' TVD	²⁴ PBD 8215' MD - 8087' TVI	²⁵ Perforations 8007' - 8196'	²⁶ DHC, MC AZT-
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, K-55	324'	250		
9-7/8"	7-5/8", 26.4#, J-55	3818'	580		
6-3/4"	5 1/2", 17#, N-80	8265'	195		
	2.875", 6.5#, J-55	8170'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 4/23/09	³⁴ Test Length 1.0 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 8.0 oz
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 434 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>			5/5/09 OIL CONSERVATION DIVISION		
Printed name: Heather Riley			Approved by: <i>Charles</i> 5-11-09		
Title: Regulatory Specialist			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: Heather.riley@williams.com			Approval Date: MAY 11 2009		
Date: 4/29/09	Phone: 505-634-4222		<i>Dix New.</i>		

8

RECEIVED

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE
MAY 11 2009

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

Bureau of Land Management
Farmington Field Office

5. LEASE DESIGNATION AND LEASE NO.
NMSF-00000 078771

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a TYPE OF WELL OIL WELL ☒ GAS WELL DRY OTHER
b TYPE OF COMPLETION
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME
Rosa Unit

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

8 FARM OR LEASE NAME, WELL NO.
Rosa Unit #009C

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

9 API WELL NO
30-039-30179

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 380' FSL & 1135' FWL, sec 11, T31N, R6W
At top production interval reported below: 380' FSL & 330' FWL, sec 11, T31N, R6W
At total depth: Same

10. FIELD AND POOL, OR WILDCAT
BASIN DAKOTA

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
SW/4 SW/4, Sec 11, T31N, R6W

14. PERMIT NO. DATE ISSUED

12. COUNTY OR
Rio Arriba

13 STATE
New Mexico

15. DATE SPUDDED 10/28/08
16. DATE T.D. REACHED 11/21/08
17. DATE COMPLETED (READY TO PRODUCE) 4/24/09

18 ELEVATIONS (DK. RKB, RT. GR. ETC)*
6386' GR

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD 8266' MD / 8138' TVD
21. PLUG BACK T.D., MD & TVD 8215' MD / 8087' TVD

22 IF MULTICOMP.. HOW MANY 3*
23 INTERVALS DRILLED BY

ROTARY TOOLS
CABLE TOOLS

24 PRODUCING INTERVAL(S). OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA 8007' - 8196' * Mesaverde & Mancos to be completed at later date

25. WAS DIRECTIONAL SURVEY MADE
YES

26. TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron, Cement Bond Log

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
10-3/4", K-55	40.5#	324'	14-3/4"	250 SX - SURFACE	
7-5/8", J-55	26.4#	3818'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17#	8265'	6-3/4"	445 SX - 5870' (CBL) 155	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.875", 6.5#, J-55, EUE 8rd	8170'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: 8007' - 8196' Total of 78, 0.34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8007' - 8196'	Fraced with 7500# 100 mesh BASF, followed w/110,145# 40/70 BASF

RCVD MAY 5 '09

OIL CONS. DIV.

33 PRODUCTION

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SH)	
		Flowing				SI	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
4/23/09	1.0 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	8.0 oz				434 p/day		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TESTED FOR RECORD

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED Weather Riley

TITLE Regulatory Spec.

DATE 4/29/09

MAY 05 2009

FARMINGTON FIELD OFFICE

NMOCD 16

37 SUMMARY OF POROUS ZONES: (Show all important zones of porous and content 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 Will remediate prior to completing the MV.						
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEASURED DEPTH	TRUE VERTICAL DEPTH
				PICTURED CLIFFS	3334'	3209'
				LEWIS	3628'	3502'
				CLIFFHOUSE	5530'	5404'
				MENEFEE	5574'	5448'
				POINT LOOKOUT	5813'	5687'
				MANCOS	6232'	6106'
				DAKOTA	8006'	7878'

February 24, 2011

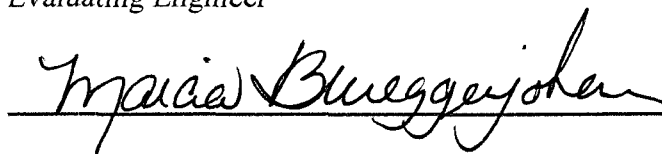
The ROSA Unit #12D DAKOTA Formation Well (commercial) is located 1905 feet from the North Line and 595 feet from the East Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 20, 2009 and completed in the Dakota formation on July 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7390' to 7992'. This well has a 2.375" tubing string. This well was shut in with a SICP of 0 psig. On July 28, 2009 the well was tested and after flowing for 1 hour through a 3/8" choke on the 2.375" tubing, the well gauged 1954 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.55% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #012D | 1PDP | DAKOTA | JAL9BKOJL3 | 62260945
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 08/2009	SJ_OP_POST
GAS 209 X M/D 12 MOS FLAT 0	SJ_OP_POST
" 140 X M/D 6 EXP B/1.7 30	SJ_OP_POST
" X X M/D 30 YRS EXP 6	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 307.53874 412.75062 M\$G 05/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #012D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:06:14
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA						INITIAL CALCULATED DATA				
	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @	End Pt.	Init. Deff	Init. Rate	Final Rate
400 START	08/2009										
401 GAS	209.00	X	M/D	12.00	MOS	FLAT 0.00	76.285	7/2010		6357.	6357.
402 "	140.00	X	M/D	6.00	EXP	B/1.7 30.00	276.927	11/2018	30.0000	4258.	1258.
403 "	X	X	M/D	30.00	YRS	EXP 6.00	452.985	7/2039	6.0000	1258.	350.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010			
512 "		5.75	X	\$/M	TO	LIFE PC 0.00		7/2039		5.750	5.750
600 ATX		4.69	X	%	TO	LIFE PC 0.00		7/2039		0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE PC 0.00		7/2039		0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE PC 0.00		7/2039		700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE FLAT 0.00		7/2039		1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE FLAT 0.00		7/2039		0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE FLAT 0.00		7/2039		0.865	0.865
OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @	End Pt.	Init. Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00		7/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00		7/2039			
905 S /89	0.98	X	FRAC	TO	LIFE	MUL 89.00		7/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00		7/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00		7/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00		7/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00		7/2039			
914 GAS	01/2009	0	0	0	0	2333.8 6280.75 4741.45 #	13.356	10/2009			
915 "	X	6312.95	6559.7	6548.15	5917.1	6501.95 6287.4 #	51.483	4/2010			
916 "	X	7109.55	6286	4351.31	4068.68	3975.84 4046.24 3944.6 #	85.265	11/2010			

INVESTMENTS	Tangible	Intang	Units	Invest.	Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	307.54	412.75	M\$G	05/2009	AD	ESC INV	720.289	5/2009	0	720.2	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.98				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #012D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:06:14
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		26.229		0.000		22.688	0.00	2.744	1.0	0.000	62.259	62.259
12-2010		0.000		62.666		0.000		54.206	0.00	3.589	1.0	0.000	194.540	194.540
12-2011		0.000		36.919		0.000		31.935	0.00	4.714	1.0	0.000	150.542	150.542
12-2012		0.000		29.260		0.000		25.310	0.00	4.714	1.0	0.000	119.314	119.314
12-2013		0.000		24.798		0.000		21.450	0.00	4.714	1.0	0.000	101.119	101.119
12-2014		0.000		21.802		0.000		18.859	0.00	4.714	1.0	0.000	88.903	88.903
12-2015		0.000		19.620		0.000		16.971	0.00	4.714	1.0	0.000	80.004	80.004
12-2016		0.000		17.943		0.000		15.521	0.00	4.714	1.0	0.000	73.166	73.166
12-2017		0.000		16.605		0.000		14.363	0.00	4.714	1.0	0.000	67.708	67.708
12-2018		0.000		15.506		0.000		13.412	0.00	4.714	1.0	0.000	63.227	63.227
12-2019		0.000		14.563		0.000		12.597	0.00	4.714	1.0	0.000	59.385	59.385
12-2020		0.000		13.690		0.000		11.841	0.00	4.714	1.0	0.000	55.822	55.822
12-2021		0.000		12.868		0.000		11.131	0.00	4.714	1.0	0.000	52.472	52.472
12-2022		0.000		12.096		0.000		10.463	0.00	4.714	1.0	0.000	49.324	49.324
12-2023		0.000		11.370		0.000		9.835	0.00	4.714	1.0	0.000	46.365	46.365
S TOT		0.000		335.935		0.000		290.583	0.00	4.350	1.0	0.000	1264.149	1264.149
AFTER		0.000		110.216		0.000		95.337	0.00	4.714	1.0	0.000	449.426	449.426
TOTAL		0.000		446.151		0.000		385.920	0.00	4.440	1.0	0.000	1713.575	1713.575
--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				-----TOTAL, M\$-----		CASH FLOW BTAX, M\$	8.0% CUM. DISC BTAX, M\$		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV						
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2009	5.147	3.500	0.000	53.612	307.539	412.751	0.000	720.289	-666.677	-587.022				
12-2010	16.083	8.400	0.000	170.057	0.000	0.000	0.000	0.000	170.057	-450.283				
12-2011	12.446	8.400	0.000	129.697	0.000	0.000	0.000	0.000	129.697	-353.721				
12-2012	9.864	8.400	0.000	101.050	0.000	0.000	0.000	0.000	101.050	-284.061				
12-2013	8.360	8.400	0.000	84.359	0.000	0.000	0.000	0.000	84.359	-230.214				
12-2014	7.350	8.400	0.000	73.153	0.000	0.000	0.000	0.000	73.153	-186.979				
12-2015	6.614	8.400	0.000	64.990	0.000	0.000	0.000	0.000	64.990	-151.413				
12-2016	6.049	8.400	0.000	58.717	0.000	0.000	0.000	0.000	58.717	-121.661				
12-2017	5.598	8.400	0.000	53.710	0.000	0.000	0.000	0.000	53.710	-96.461				
12-2018	5.227	8.400	0.000	49.600	0.000	0.000	0.000	0.000	49.600	-74.914				
12-2019	4.910	8.400	0.000	46.075	0.000	0.000	0.000	0.000	46.075	-56.381				
12-2020	4.615	8.400	0.000	42.807	0.000	0.000	0.000	0.000	42.807	-40.438				
12-2021	4.338	8.400	0.000	39.734	0.000	0.000	0.000	0.000	39.734	-26.735				
12-2022	4.078	8.400	0.000	36.846	0.000	0.000	0.000	0.000	36.846	-14.970				
12-2023	3.833	8.400	0.000	34.131	0.000	0.000	0.000	0.000	34.131	-4.879				
S TOT	104.511	121.100	0.000	1038.538	307.539	412.751	0.000	720.289	318.249	-4.879				
AFTER	37.155	130.900	0.000	281.370	0.000	0.000	0.000	0.000	281.370	48.162				
TOTAL	141.666	252.000	0.000	1319.908	307.539	412.751	0.000	720.289	599.619	48.162				

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #012D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
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A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

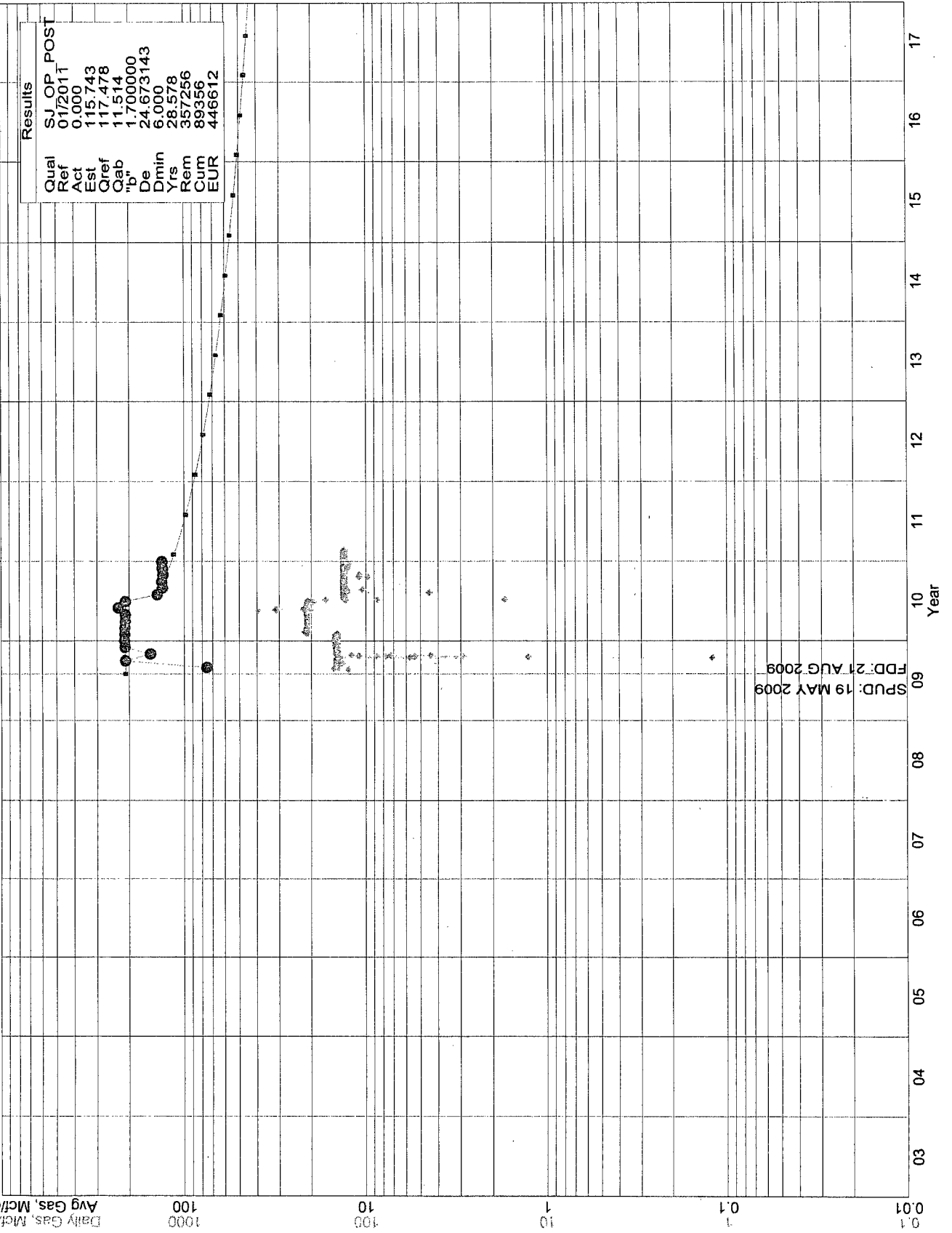
--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	53.612	69.053	0.000	412.751	0.000	-428.191	0.000	-149.867	-516.810	-456.876
12-2010	170.057	68.140	0.000	0.000	0.000	101.916	0.000	35.671	134.386	-348.819
12-2011	129.697	48.663	0.000	0.000	0.000	81.034	0.000	28.362	101.335	-273.374
12-2012	101.050	34.762	0.000	0.000	0.000	66.288	0.000	23.201	77.849	-219.707
12-2013	84.359	27.453	0.000	0.000	0.000	56.906	0.000	19.917	64.442	-178.573
12-2014	73.153	27.443	0.000	0.000	0.000	45.711	0.000	15.999	57.155	-144.794
12-2015	64.990	27.453	0.000	0.000	0.000	37.537	0.000	13.138	51.852	-116.418
12-2016	58.717	4.572	0.000	0.000	0.000	54.145	0.000	18.951	39.766	-96.268
12-2017	53.710	0.000	0.000	0.000	0.000	53.710	0.000	18.799	34.912	-79.889
12-2018	49.600	0.000	0.000	0.000	0.000	49.600	0.000	17.360	32.240	-65.883
12-2019	46.075	0.000	0.000	0.000	0.000	46.075	0.000	16.126	29.949	-53.836
12-2020	42.807	0.000	0.000	0.000	0.000	42.807	0.000	14.982	27.824	-43.473
12-2021	39.734	0.000	0.000	0.000	0.000	39.734	0.000	13.907	25.827	-34.567
12-2022	36.846	0.000	0.000	0.000	0.000	36.846	0.000	12.896	23.950	-26.919
12-2023	34.131	0.000	0.000	0.000	0.000	34.131	0.000	11.946	22.185	-20.360
S TOT	1038.538	307.539	0.000	412.751	0.000	318.249	0.000	111.387	206.862	-20.360
AFTER	281.370	0.000	0.000	0.000	0.000	281.370	0.000	98.480	182.891	14.117
TOTAL	1319.908	307.539	0.000	412.751	0.000	599.619	0.000	209.867	389.752	14.117

BTAX RATE OF RETURN (PCT)	9.55	ATAx RATE OF RETURN (PCT)	8.65
BTAX PAYOUT YEARS	9.07	ATAx PAY OUT YEARS	9.08
BTAX PAYOUT YEARS (DISC)	16.90	ATAx PAY OUT YEARS (DISC)	21.11
BTAX NET INCOME/INVEST	1.83	ATAx NET INCOME/INVEST	1.54
BTAX NET INCOME/INVEST (DISC)	1.08	ATAx NET INCOME/INVEST (DISC)	1.02
PRODUCTION START DATE	08/2009	PROJECT LIFE (YEARS)	31.92
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.372
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.714
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	446.151
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	446.151
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
--- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	599.6	389.8	599.6
2.00	389.6	247.8	346.9
5.00	180.6	105.4	135.2
8.00	48.2	14.1	17.2
10.00	-13.8	-29.0	-34.4
12.00	-61.5	-62.4	-72.5
15.00	-114.0	-99.5	-113.0
18.00	-150.7	-125.6	-140.2
20.00	-168.9	-138.7	-153.4
25.00	-199.7	-160.9	-174.8
30.00	-216.6	-173.3	-185.8
35.00	-225.1	-179.6	-190.6
40.00	-228.4	-182.0	-191.6
45.00	-228.3	-181.9	-190.3
50.00	-225.9	-180.1	-187.5

SJB_AvgDay_Gas

Daily Gas, Mct/day



SPUD: 19 MAY 2009
FDD: 21 AUG 2009

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

Volume
☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
⁴ API Number 30-039-30699		³ Reason for Filing Code/ Effective Date NW
⁵ Pool Name BASIN DAKOTA <i>NSL 6067</i>	⁶ Pool Code 71599	
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 012D

II. ¹⁰ Surface Location

Ul or lot no. H	Section 15	Township 31N	Range 6W	Lot.Idn	Feet from the 1905	North/South Line NORTH	Feet from the 595	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. H	Section 15	Township 31N	Range 6W	Lot Idn	Feet from the 2494	North/South line NORTH	Feet from the 623	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

IV. Well Completion Data

²¹ Spud Date 5-20-09	²² Ready Date 7/29/09	²³ TD 8011' MD	²⁴ PBDT 8006'	²⁵ Perforations 7903' - 7992'	²⁶ DHC, MC AZT-3193
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	315'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3678'	620 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8009'	360 sx - 2920' (CBL)		
	2.375", 4.7#, J-55	7950'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 7/28/09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 0
³⁷ Choke Size 3/8"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 469 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>			OIL CONSERVATION DIVISION Approved by: <i>Charles D. Riley</i> 8.27.09		
Printed name: Heather Riley			Title: SUPERVISOR DISTRICT # 3		
Title: Regulatory Specialist			Approval Date: AUG 27 2009		
E-mail Address: Heather.riley@williams.com					
Date: 8/26/09		Phone: 505-634-4222			

RCVD AUG 26 '09
OIL CONS. DIV.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

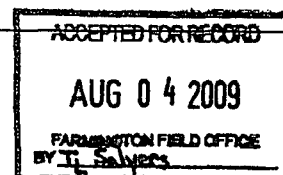
SUBMIT IN
DUPLICATE

(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-078765	
						6 IF INDIAN, ALLOTTEE OR	
1a TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER						7 UNIT AGREEMENT NAME Rosa Unit	
b TYPE OF COMPLETION ☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER						Report to lease	
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY						8 FARM OR LEASE NAME, WELL NO Rosa Unit #012D	
3 ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208						9 API WELL NO 30-039-30699-0001	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface: 1905' FNL & 595' FEL, sec 15, T31N, R6W At top production interval reported below: 2494' FNL & 623' FEL, sec 15, T31N, R6W At total depth: Same						10 FIELD AND POOL, OR WILDCAT Basin Dakota	
						11 SEC. T, R, M, OR BLOCK AND SURVEY OR AREA Sec 15, T31N, R6W	
						12 COUNTY OR Rio Arriba	
						13 STATE New Mexico	
14 PERMIT NO						DATE ISSUED	
15 DATE SPUDDED 5-20-09						16 DATE T D REACHED 6-1-09	
17 DATE COMPLETED (READY TO PRODUCE) 7/29/09						18 ELEVATIONS (DK, RKB, RT, GR, ETC)* 6299' GR	
20 TOTAL DEPTH, MD & TVD 8011' MD / 7945' TVD						21 PLUG, BACK T D, MD & TVD 8006' MD / 7940' TVD	
22 IF MULTICOMP, HOW MANY 3*						23 INTERVALS DRILLED BY	
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA. 7903' - 7992' MD						25 WAS DIRECTIONAL SURVEY MADE YES DIST. 3	
26 TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL						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	
10-3/4", J-55		40.5#		315'		14-3/4"	
7-5/8", K-55		26.4#		3678'		9-7/8"	
5-1/2", N-80		17.0#		8009'		6-3/4"	
29 LINER RECORD							
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
30 TUBING RECORD							
SIZE		DEPTH SET (MD)		PACKER SET (MD)			
2 3/5", 4.7#, J-55 EUE 8rd		7950'		none			
31 PERFORATION RECORD (Interval, size, and number)							
Dakota: 7903' - 7992' Total of 75, 0.34" holes							
32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC							
DEPTH INTERVAL (MD)				AMOUNT AND KIND OF MATERIAL USED			
7903' - 7992'				Frac with 5148# 100 mesh BASF followed with 113,780# 40/70 mesh BASF			
33 PRODUCTION BASIN DAKOTA, BASIN MANCOS AND BLANCO MESAVERDE FORMATIONS COMMINGLED AND PRODUCING UNDER AUTHORIZATION DHC AZT-3193							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST		TESTED		CHOKE SIZE		PROD N FOR TEST PERIOD	
7/28/09		1 hr		3/8"			
OIL - BBL		GAS - MCF		WATER - BBL		GAS-OIL RATIO	
FLOW TBG PRESS		CASING PRESSURE		CALCULATED 24-HOUR RATE		OIL - BBL	
0		0				GAS - MCF 1954 mcf/d	
WATER - BBL		OIL GRAVITY-API (CORR)					
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.). TO BE SOLD							
TEST WITNESSED BY Weldon Higgins							
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 <u>Neather Riley</u> TITLE <u>Regulatory Specialist</u> DATE <u>08/03/09</u>							

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,

38 GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3188'	3124'
					LEWIS	3491'	3425'
					CLIFFHOUSE	5384'	5318'
					MENEFEE	5426'	5360'
					POINT LOOKOUT	5671'	5605'
					MANCOS	6082'	6016'
					DAKOTA	7902'	7915'

February 24, 2011

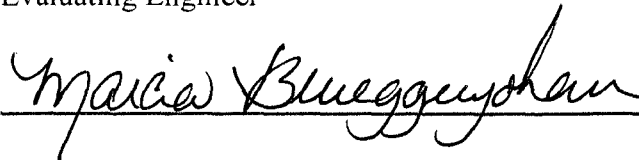
The ROSA Unit #18C DAKOTA Formation Well (commercial) is located 1490 feet from the North Line and 990 feet from the East Line, Section 22 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 7, 2009 and completed in the Dakota formation on August 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8049' to 8122'. This well has a 2.375" tubing string. This well was shut in with a SICP of 420 psig. On August 20, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 604 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.13% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #018C | 1PDP | DAKOTA | J7PKMBIM5F | 62209260
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 08/2009	SJ_OP_POST
GAS 150 X M/D 6 EXP B/1.800 30	SJ_OP_POST
" X 10 M/D X YRS EXP 6	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 332.65280 336.29956 M\$G 08/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22158 RSV CAT: 1PDP
 Well Name: ROSA UNIT #018C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:18:41
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA				INITIAL CALCULATED DATA				
	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate

400 START	08/2009									
401 GAS	150.00	X	M/D	6.00 EXP	B/1.800 30.00	208.960 5/2017	30.0000	4563.	1432.	
402 "	X	10.00	M/D	X YRS	EXP 6.00	427.838 6/2042	6.0000	1432.	303.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957 #/M	4/2007				
501 "	X	6.627	6.827	6.197	4.987 #/M	8/2007				
502 "	X	4.587	5.117	6.057	6.497 #/M	12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277 #/M	4/2008				
504 "	X	9.427	9.846	11.356	7.637 #/M	8/2008				
505 "	X	6.427	4.267	2.837	4.627 #/M	12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617 #/M	4/2009				
507 "	X	2.497	2.647	2.977	3.177 #/M	8/2009				
508 "	X	2.467	3.417	4.257	4.277 #/M	12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77 #/M	4/2010				
510 "	X	3.87	3.69	4.28	4.08 #/M	8/2010				
511 "	X	3.47	4.126	5.75	5.75 #/M	12/2010				
512 "	5.75	X	\$/M	TO	LIFE PC	0.00 6/2042		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE PC	0.00 6/2042		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE PC	0.00 6/2042		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE PC	0.00 6/2042		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE FLAT	0.00 6/2042		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE FLAT	0.00 6/2042		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE FLAT	0.00 6/2042		0.865	0.865	

OVERLAYS	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE DIV 146.00	6/2042			
903 S /89	0.49	X	FRAC	TO	LIFE MUL 92.00	6/2042			
905 S /89	1.06	X	FRAC	TO	LIFE MUL 89.00	6/2042			
907 S /196	S/196	X	FRAC	TO	LIFE MINUS 89.00	6/2042			
909 S /88	0.06	X	FRAC	TO	LIFE MUL 92.00	6/2042			
911 S /88	1.00	X	FRAC	TO	LIFE MINUS 88.00	6/2042			
913 S /196	S/196	X	FRAC	TO	LIFE MUL 88.00	6/2042			

914 GAS	01/2009	0 0 0 0 0 0 0	120.24	4326.96	3808.96 #	8.256 10/2009
915 "	X	3760.05	3999.24	3248.7	2932.86 3250.17 3701.36 #	29.149 4/2010
916 "	X	1482.3	0 0 0 0 0 0	3955.77 #		34.587 11/2010

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	332.65	336.30	M\$G	08/2009 AD	ESC INV	668.952	8/2009	0	668.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.06			
202 WELLS	0.00	1.00		
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB
250 LOSS	NO			

PROJECT RUN SETTINGS

Base Date	: 09/2007	Time Frames	: 4*1.99*12,8	
P.W. Date	: 09/2007	Primary PW%	: 8.0	Discount Freq. : MID
Report Date	: 09/2007			
Qualifiers	: Prod = SJ_OP_POST	Price = SJ_OP_POST	Cost = SJ_OP_POST	Owner = BASE
	Title = BASE	Misc = BASE	Invest = SJ_OP_POST	Overlay = SJ_OP_POST

PropID: 22158 RSV CAT: 1PDP
 Well Name: ROSA UNIT #018C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
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 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		16.015	0.000		13.853		0.00	2.958	1.0	0.000	40.980	40.980
12-2010		0.000		21.488	0.000		18.587		0.00	4.417	1.0	0.000	82.089	82.089
12-2011		0.000		31.491	0.000		27.240		0.00	5.107	1.0	0.000	139.110	139.110
12-2012		0.000		26.827	0.000		23.205		0.00	5.107	1.0	0.000	118.506	118.506
12-2013		0.000		23.698	0.000		20.499		0.00	5.107	1.0	0.000	104.684	104.684
12-2014		0.000		21.417	0.000		18.525		0.00	5.107	1.0	0.000	94.606	94.606
12-2015		0.000		19.661	0.000		17.006		0.00	5.107	1.0	0.000	86.850	86.850
12-2016		0.000		18.257	0.000		15.792		0.00	5.107	1.0	0.000	80.648	80.648
12-2017		0.000		17.099	0.000		14.791		0.00	5.107	1.0	0.000	75.534	75.534
12-2018		0.000		16.071	0.000		13.902		0.00	5.107	1.0	0.000	70.994	70.994
12-2019		0.000		15.107	0.000		13.068		0.00	5.107	1.0	0.000	66.734	66.734
12-2020		0.000		14.201	0.000		12.283		0.00	5.107	1.0	0.000	62.730	62.730
12-2021		0.000		13.349	0.000		11.546		0.00	5.107	1.0	0.000	58.966	58.966
12-2022		0.000		12.548	0.000		10.854		0.00	5.107	1.0	0.000	55.428	55.428
12-2023		0.000		11.795	0.000		10.202		0.00	5.107	1.0	0.000	52.103	52.103
S TOT		0.000		279.021	0.000		241.354		0.00	4.930	1.0	0.000	1189.962	1189.962
AFTER		0.000		125.964	0.000		108.959		0.00	5.107	1.0	0.000	556.438	556.438
TOTAL		0.000		404.985	0.000		350.312		0.00	4.985	1.0	0.000	1746.400	1746.400
--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%					
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. DISC BTAX, M\$			
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2009	3.388	3.500	0.000	34.092	332.653	336.300	0.000	668.952	-634.860	-547.603	-547.603			
12-2010	6.787	8.400	0.000	66.903	0.000	0.000	0.000	0.000	66.903	-493.808	-493.808			
12-2011	11.501	8.400	0.000	119.209	0.000	0.000	0.000	0.000	119.209	-405.055	-405.055			
12-2012	9.797	8.400	0.000	100.308	0.000	0.000	0.000	0.000	100.308	-335.905	-335.905			
12-2013	8.655	8.400	0.000	87.629	0.000	0.000	0.000	0.000	87.629	-279.971	-279.971			
12-2014	7.821	8.400	0.000	78.385	0.000	0.000	0.000	0.000	78.385	-233.644	-233.644			
12-2015	7.180	8.400	0.000	71.270	0.000	0.000	0.000	0.000	71.270	-194.642	-194.642			
12-2016	6.667	8.400	0.000	65.581	0.000	0.000	0.000	0.000	65.581	-161.412	-161.412			
12-2017	6.245	8.400	0.000	60.889	0.000	0.000	0.000	0.000	60.889	-132.844	-132.844			
12-2018	5.869	8.400	0.000	56.725	0.000	0.000	0.000	0.000	56.725	-108.202	-108.202			
12-2019	5.517	8.400	0.000	52.817	0.000	0.000	0.000	0.000	52.817	-86.957	-86.957			
12-2020	5.186	8.400	0.000	49.144	0.000	0.000	0.000	0.000	49.144	-68.653	-68.653			
12-2021	4.875	8.400	0.000	45.691	0.000	0.000	0.000	0.000	45.691	-52.896	-52.896			
12-2022	4.582	8.400	0.000	42.446	0.000	0.000	0.000	0.000	42.446	-39.343	-39.343			
12-2023	4.307	8.400	0.000	39.395	0.000	0.000	0.000	0.000	39.395	-27.695	-27.695			
S TOT	98.378	121.100	0.000	970.484	332.653	336.300	0.000	668.952	301.532	-27.695	-27.695			
AFTER	46.002	155.400	0.000	355.035	0.000	0.000	0.000	0.000	355.035	36.343	36.343			
TOTAL	144.380	276.500	0.000	1325.520	332.653	336.300	0.000	668.952	656.567	36.343	36.343			

PropID: 22158 RSV CAT: 1PDP
 Well Name: ROSA UNIT #018C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
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 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

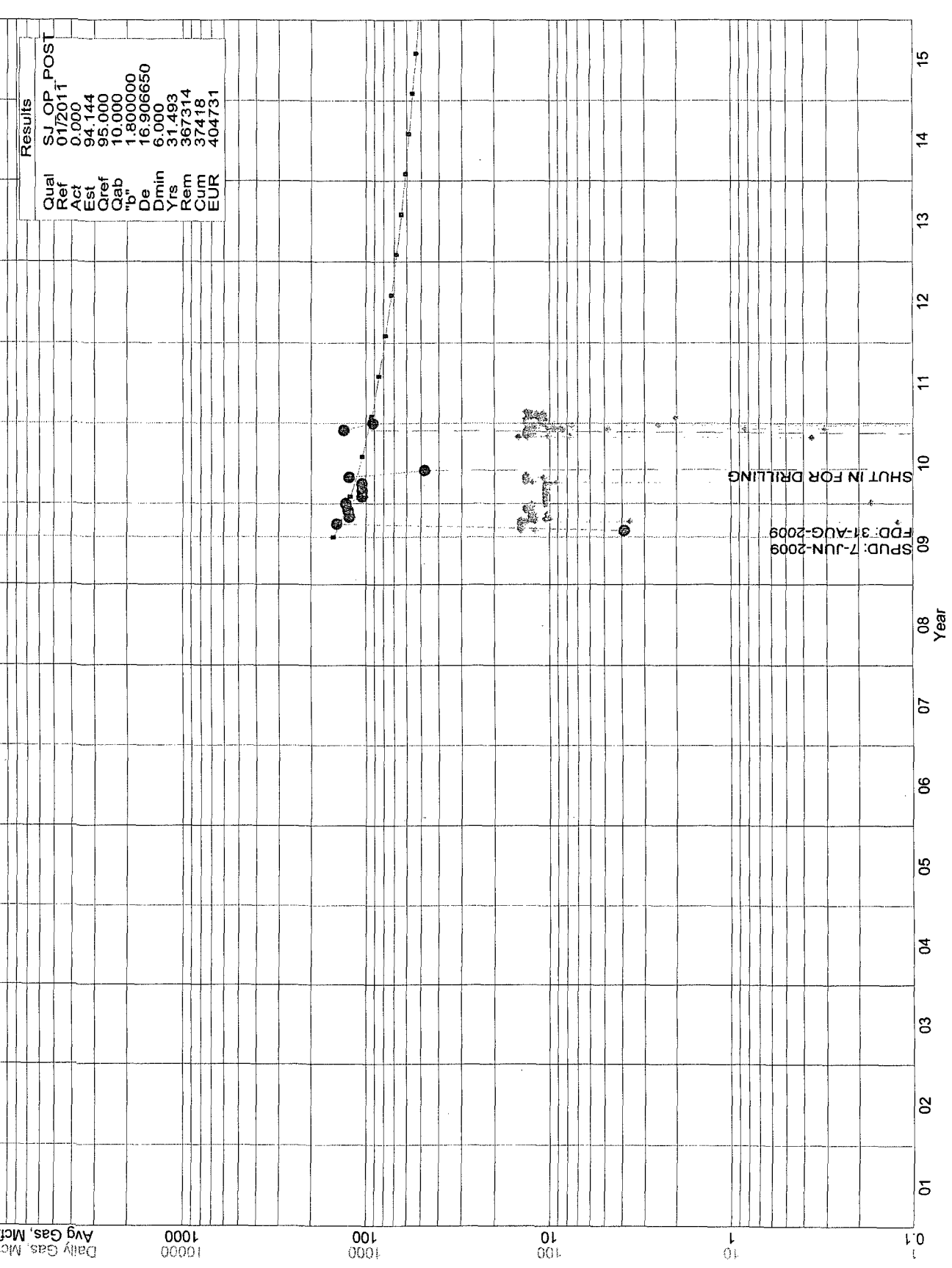
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	34.092	74.692	0.000	336.300	0.000	-376.899	0.000	-131.915	-502.946	-433.048
12-2010	66.903	73.705	0.000	0.000	0.000	-6.802	0.000	-2.381	69.283	-377.338
12-2011	119.209	52.637	0.000	0.000	0.000	66.572	0.000	23.300	95.909	-305.932
12-2012	100.308	37.601	0.000	0.000	0.000	62.707	0.000	21.948	78.361	-251.913
12-2013	87.629	29.695	0.000	0.000	0.000	57.934	0.000	20.277	67.352	-208.922
12-2014	78.385	29.684	0.000	0.000	0.000	48.701	0.000	17.045	61.339	-172.669
12-2015	71.270	29.695	0.000	0.000	0.000	41.575	0.000	14.551	56.719	-141.630
12-2016	65.581	4.945	0.000	0.000	0.000	60.635	0.000	21.222	44.358	-119.153
12-2017	60.889	0.000	0.000	0.000	0.000	60.889	0.000	21.311	39.578	-100.584
12-2018	56.725	0.000	0.000	0.000	0.000	56.725	0.000	19.854	36.871	-84.567
12-2019	52.817	0.000	0.000	0.000	0.000	52.817	0.000	18.486	34.331	-70.757
12-2020	49.144	0.000	0.000	0.000	0.000	49.144	0.000	17.200	31.944	-58.860
12-2021	45.691	0.000	0.000	0.000	0.000	45.691	0.000	15.992	29.699	-48.618
12-2022	42.446	0.000	0.000	0.000	0.000	42.446	0.000	14.856	27.590	-39.808
12-2023	39.395	0.000	0.000	0.000	0.000	39.395	0.000	13.788	25.607	-32.237
S TOT	970.484	332.653	0.000	336.300	0.000	301.532	0.000	105.536	195.996	-32.237
AFTER	355.035	0.000	0.000	0.000	0.000	355.035	0.000	124.262	230.773	9.388
TOTAL	1325.520	332.653	0.000	336.300	0.000	656.567	0.000	229.798	426.769	9.388

BTAX RATE OF RETURN (PCT)	9.13	ATAW RATE OF RETURN (PCT)	8.43
BTAX PAYOUT YEARS	10.08	ATAW PAY OUT YEARS	10.08
BTAX PAYOUT YEARS (DISC)	19.62	ATAW PAY OUT YEARS (DISC)	24.42
BTAX NET INCOME/INVEST	1.98	ATAW NET INCOME/INVEST	1.64
BTAX NET INCOME/INVEST(DISC)	1.06	ATAW NET INCOME/INVEST(DISC)	1.02
PRODUCTION START DATE	08/2009	PROJECT LIFE (YEARS)	34.83
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.570
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	5.107
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	404.985
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	404.985
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
--- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	656.6	426.8	656.6
2.00	413.0	263.9	364.0
5.00	178.9	106.2	133.2
8.00	36.3	9.4	11.1
10.00	-28.2	-34.8	-40.2
12.00	-76.6	-68.0	-77.1
15.00	-128.1	-103.6	-114.8
18.00	-162.4	-127.5	-139.0
20.00	-178.7	-138.9	-150.1
25.00	-204.3	-156.7	-166.7
30.00	-216.1	-164.9	-173.5
35.00	-219.9	-167.5	-174.7
40.00	-219.0	-166.6	-172.7
45.00	-215.3	-163.7	-168.9
50.00	-209.9	-159.6	-164.0

SUB_AvgDay_Gas



ROSA UNIT #18C
BLANCO MV / BASIN MC / BASIN DK

Spud: 06/07/09
 Completed: 08/24/09
 1st Delivery: 0/0/00

Surface Location:
 1490' FNL and 990' FEL
 SE/4 NE/4 Sec 22 (H), T31N, R06W
 Rio Arriba, NM

Bottom Hole Location:
 2311' FNL and 1887' FEL
 SW/4 NE/4 Sec 22 (G), T31N, R06W
 Rio Arriba, NM

Elevation: 6258' GR
 API # 30-039-30131

Top	MD Depth	TVD Depth
Pictured Cliffs	3350'	3091'
Lewis	3667'	3404'
Cliffhouse Ss.	5528'	5265'
Menefee	5577'	5314'
Point Lookout	5840'	5577'
Mancos	6322'	6059'
Dakota	8049'	7786'

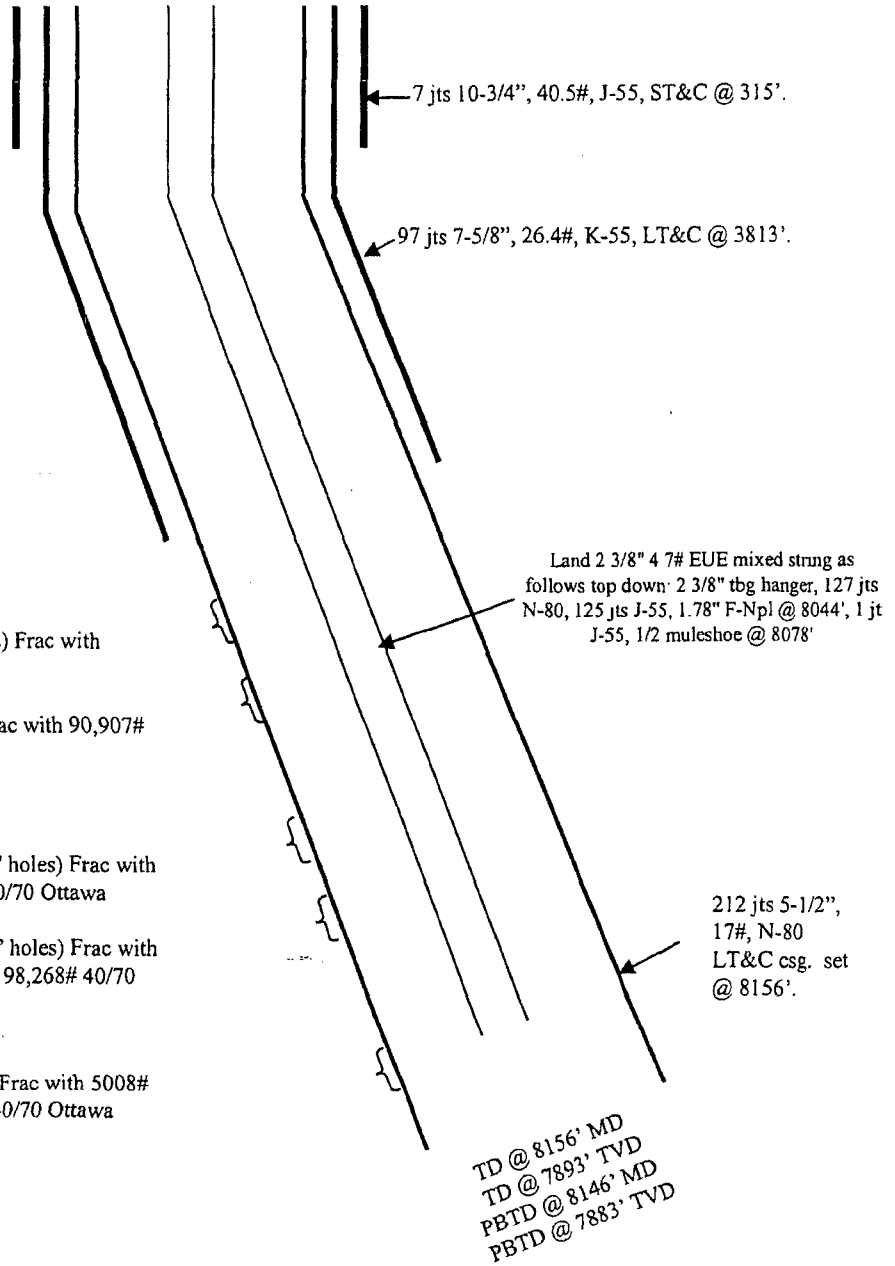
CH/Men: 5297'-5740' (59, 0.34" holes) Frac with
 73,838# 20/40 mesh BASF

PLO: 5815'-6123' (63, 0.34" holes) Frac with 90,907#
 20/40 mesh BASF

Upper Mancos: 6942'-7209' (75, 0.34" holes) Frac with
 5006# 100 mesh followed w/98,125# 40/70 Ottawa

Lower Mancos: 7271'-7428' (54, 0.34" holes) Frac with
 5003# 100 mesh Ottawa followed with 98,268# 40/70
 Ottawa

Dakota: 8049'-8122' (57, 0.34" holes) Frac with 5008#
 100 mesh Ottawa followed w/77,064# 40/70 Ottawa



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	300 sxs	538 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	655 sxs	1629 cu.ft.	Surface
6-3/4"	5-1/2", 17#	380 sxs	531 cu.ft.	3380' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30131	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 18C

II. ¹⁰ Surface Location

UL or lot no. H	Section 22	Township 31N	Range 6W	Lot Idn	Feet from the 1490	North/South Line NORTH	Feet from the 990	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. G	Section 22	Township 31N	Range 6W	Lot Idn	Feet from the 2311	North/South line NORTH	Feet from the 1887	East/West line EAST	County Rio Arriba

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
	RCWD AUG 26 '09	

IV. Well Completion Data NOTE: Commingled with MV & MC

OIL CONS. DIV.
DIST 3

²¹ Spud Date 6-7-09	²² Ready Date 8-24-09	²³ TD 8156' MD	²⁴ PBDT 8146' MD	²⁵ Perforations 8049' - 8122'	²⁶ DHC, MC AZT-3211
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	315'	300 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3813'	655 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8156'	380 sx - 3380' (CBL)		
	2.375", 4.7#, J-55	8078'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 8-20-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 420 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 604 mcf/d		⁴¹ Test Method Pitot

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>		8/28/09 OIL CONSERVATION DIVISION Approved by: <i>Charles Lewis</i> 9-10-09	
Printed name: Larry Higgins		Title: SUPERVISOR DISTRICT # 3	
Title: Drig COM		Approval Date: SEP 10 2009	
E-mail Address: larry.higgins@williams.com			
Date: 8-25-09	Phone: 505-634-4208	<i>BLM approval</i>	

8

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078766

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8 FARM OR LEASE NAME, WELL NO

Rosa Unit #18C

9 API WELL NO.

30-039-30131-0001

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11 SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA

Sec 22, T31N, R6W

12 COUNTY OR

Rio Arriba

13 STATE

New Mexico

19 ELEVATION CASINGHEAD

RCVD AUG 28 '09

ROTARY TOOLS

CABLE TOOLS

OIL CINGS NEW

25. WAS DIRECTIONAL SURVEY MADE

YES DIST. 3

27 WAS WELL CORED

No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3 ADDRESS AND TELEPHONE NO.

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 1490' FNL & 990' FEL, sec 22, T31N, R6W

At top production interval reported below : 2311' FNL & 1887' FEL, sec 22, T31N, R6W

At total depth: Same

RECEIVED

AUG 25 2009

Bureau of Land Management
Farmington Field Office

15 DATE

SPUDDED

6-7-09

16 DATE T D

REACHED

6-21-09

17 DATE COMPLETED (READY TO PRODUCE)

8-24-09

14 PERMIT NO

DATE ISSUED

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

6258' GR

20 TOTAL DEPTH, MD & TVD

8156' MD / 7893' TVD

21 PLUG, BACK T D, MD & TVD

8146' MD / 7883' TVD

22 IF MULTICOMP,
HOW MANY

3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA. 8049' - 8122' MD

Commingled with MV & MC per AZT-3211

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40 5#	315'	14-3/4"	300 SX - SURFACE	
7-5/8", K-55	26 4#	3813'	9-7/8"	655 SX - SURFACE	
5-1/2", N-80	17 0#	8156'	6-3/4"	380 SX - 3380' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80EUE 8rd	8078'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: 8049'-8122' Total of 57, 0 34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8049' - 8122'	Fraced with 5008# 100 mesh Ottawa followed with 77,064# 40/70 mesh Ottawa

33 PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
8-20-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	420 lb				604 mcf/d		

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

TEST WITNESSED BY: Weldon Higgins

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

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

SIGNED

Weldon Higgins

TITLE Drlg COM

DATE 8-25-09

NMOCD

ACCEPTED FOR RECORD

AUG 26 2009

FARMINGTON FIELD OFFICE
BY *J. Salvo*

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

38 GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEASURED DEPTH	TRUE VERTICAL DEPTH
				PICTURED CLIFFS	3350'	3091'
				LEWIS	3667'	3404'
				CLIFFHOUSE	5528'	5265'
				MENEFEE	5577'	5314'
				POINT LOOKOUT	5840'	5577'
				MANCOS	6322'	6059'
				DAKOTA	8049'	7786'

February 24, 2011

The ROSA Unit #25C DAKOTA Formation Well (commercial) is located 1130 feet from the South Line and 1560 feet from the West Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 15, 2009 and completed in the Dakota formation on November 22, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8041' to 8137'. This well has a 2.375" tubing string. This well was shut in with a SICP of 490 psig. On November 22, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 704 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.49% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #025C | 1PDP | DAKOTA | J7PKD5HTWS | 62246118
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 144 X M/D 6 MOS FLAT 0	SJ_OP_POST
" 138 129 M/D 2 IMO EXP X	SJ_OP_POST
" 135 X M/D 5 EXP B/1.8 35	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 255.08303 388.67571 M\$G 12/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 12189 RSV CAT: 1PDP
 Well Name: ROSA UNIT #025C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:01:57
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit	Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	12/2009										
401 GAS	144.00	X	M/D	6.00 MOS	FLAT	0.00	26.280	5/2010	4380.	4380.	
402 "	138.00	129.00	M/D	2.00 IMO	EXP	X	34.398	7/2010	4198.	3924.	
403 "	135.00	X	M/D	5.00 EXP	B/1.8	35.00	232.766	7/2020	4106.	1000.	
404 "	X	X	M/D	30.00 YRS	EXP	5.00	379.909	11/2039	1000.	371.	

500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010			
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	11/2039	5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	11/2039	0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	11/2039	0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	11/2039	700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865	0.865

OVERLAYS	Beginning, Ending Rates			Schedule Limit	Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	11/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	11/2039			
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00	11/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	11/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	11/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	11/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	11/2039			
914 GAS	01/2009	0	0	0	0	0	0	0	111.36	4320.72	4461.12 #
915 "	X	4019.52	4457.04	4312.8	4292.64	3954.96	4021.92	#	33.952	7/2010	
916 "	X	3630.96	3252.48	3187.92	2873.28	#			46.897	11/2010	

INVESTMENTS	Tangible Intang Units			Invest. Point	Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	255.08	388.68	M\$G	12/2009 AD	ESC	INV	643.759	12/2009	0	643.7	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.00					
202 WELLS	0.00	1.00				
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB		
250 LOSS	NO					

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 12189 RSV CAT: 1PDP
 Well Name: ROSA UNIT #025C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:01:57
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		4.432		0.000		3.737		0.00	3.420	1.0	0.000	12.782	12.782
12-2010	0.000		45.819		0.000		39.634		0.00	3.650	1.0	0.000	144.653	144.653
12-2011	0.000		33.250		0.000		28.761		0.00	4.779	1.0	0.000	137.451	137.451
12-2012	0.000		25.743		0.000		22.268		0.00	4.779	1.0	0.000	106.419	106.419
12-2013	0.000		21.644		0.000		18.722		0.00	4.779	1.0	0.000	89.475	89.475
12-2014	0.000		18.974		0.000		16.413		0.00	4.779	1.0	0.000	78.437	78.437
12-2015	0.000		17.062		0.000		14.758		0.00	4.779	1.0	0.000	70.532	70.532
12-2016	0.000		15.608		0.000		13.501		0.00	4.779	1.0	0.000	64.520	64.520
12-2017	0.000		14.455		0.000		12.503		0.00	4.779	1.0	0.000	59.755	59.755
12-2018	0.000		13.513		0.000		11.689		0.00	4.779	1.0	0.000	55.861	55.861
12-2019	0.000		12.725		0.000		11.007		0.00	4.779	1.0	0.000	52.604	52.604
12-2020	0.000		12.053		0.000		10.426		0.00	4.779	1.0	0.000	49.825	49.825
12-2021	0.000		11.449		0.000		9.903		0.00	4.779	1.0	0.000	47.327	47.327
12-2022	0.000		10.876		0.000		9.408		0.00	4.779	1.0	0.000	44.961	44.961
12-2023	0.000		10.332		0.000		8.937		0.00	4.779	1.0	0.000	42.713	42.713
S TOT	0.000		267.934		0.000		231.666		0.00	4.564	1.0	0.000	1057.315	1057.315
AFTER	0.000		109.540		0.000		94.752		0.00	4.779	1.0	0.000	452.831	452.831
TOTAL	0.000		377.474		0.000		326.419		0.00	4.626	1.0	0.000	1510.146	1510.146
--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----								8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$				
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000				
12-2009	1.057	0.700	0.000	11.026	255.083	388.676	0.000	643.759	-632.733	-531.827				
12-2010	11.959	8.400	0.000	124.294	0.000	0.000	0.000	0.000	124.294	-431.885				
12-2011	11.364	8.400	0.000	117.688	0.000	0.000	0.000	0.000	117.688	-344.264				
12-2012	8.798	8.400	0.000	89.221	0.000	0.000	0.000	0.000	89.221	-282.758				
12-2013	7.397	8.400	0.000	73.678	0.000	0.000	0.000	0.000	73.678	-235.729				
12-2014	6.485	8.400	0.000	63.553	0.000	0.000	0.000	0.000	63.553	-198.168				
12-2015	5.831	8.400	0.000	56.301	0.000	0.000	0.000	0.000	56.301	-167.358				
12-2016	5.334	8.400	0.000	50.786	0.000	0.000	0.000	0.000	50.786	-141.624				
12-2017	4.940	8.400	0.000	46.415	0.000	0.000	0.000	0.000	46.415	-119.847				
12-2018	4.618	8.400	0.000	42.843	0.000	0.000	0.000	0.000	42.843	-101.236				
12-2019	4.349	8.400	0.000	39.855	0.000	0.000	0.000	0.000	39.855	-85.204				
12-2020	4.119	8.400	0.000	37.306	0.000	0.000	0.000	0.000	37.306	-71.310				
12-2021	3.913	8.400	0.000	35.014	0.000	0.000	0.000	0.000	35.014	-59.235				
12-2022	3.717	8.400	0.000	32.844	0.000	0.000	0.000	0.000	32.844	-48.748				
12-2023	3.531	8.400	0.000	30.782	0.000	0.000	0.000	0.000	30.782	-39.647				
S TOT	87.411	118.300	0.000	851.604	255.083	388.676	0.000	643.759	207.845	-39.647				
AFTER	37.437	133.700	0.000	281.694	0.000	0.000	0.000	0.000	281.694	12.092				
TOTAL	124.848	252.000	0.000	1133.298	255.083	388.676	0.000	643.759	489.539	12.092				

PropID: 12189 RSV CAT: 1PDP
 Well Name: ROSA UNIT #025C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:01:57
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	11.026	4.050	0.000	388.676	0.000	-381.700	0.000	-133.595	-499.138	-415.812
12-2010	124.294	53.224	0.000	0.000	0.000	71.070	0.000	24.874	99.420	-335.871
12-2011	117.688	56.518	0.000	0.000	0.000	61.170	0.000	21.409	96.278	-264.190
12-2012	89.221	40.363	0.000	0.000	0.000	48.858	0.000	17.100	72.120	-214.472
12-2013	73.678	28.833	0.000	0.000	0.000	44.845	0.000	15.696	57.982	-177.462
12-2014	63.553	22.770	0.000	0.000	0.000	40.782	0.000	14.274	49.279	-148.337
12-2015	56.301	22.762	0.000	0.000	0.000	33.539	0.000	11.739	44.562	-123.951
12-2016	50.786	22.770	0.000	0.000	0.000	28.016	0.000	9.805	40.981	-103.185
12-2017	46.415	3.792	0.000	0.000	0.000	42.623	0.000	14.918	31.497	-88.408
12-2018	42.843	0.000	0.000	0.000	0.000	42.843	0.000	14.995	27.848	-76.310
12-2019	39.855	0.000	0.000	0.000	0.000	39.855	0.000	13.949	25.906	-65.890
12-2020	37.306	0.000	0.000	0.000	0.000	37.306	0.000	13.057	24.249	-56.859
12-2021	35.014	0.000	0.000	0.000	0.000	35.014	0.000	12.255	22.759	-49.010
12-2022	32.844	0.000	0.000	0.000	0.000	32.844	0.000	11.495	21.348	-42.193
12-2023	30.782	0.000	0.000	0.000	0.000	30.782	0.000	10.774	20.008	-36.277
S TOT	851.604	255.083	0.000	388.676	0.000	207.845	0.000	72.746	135.099	-36.277
AFTER	281.694	0.000	0.000	0.000	0.000	281.694	0.000	98.593	183.101	-2.648
TOTAL	1133.298	255.083	0.000	388.676	0.000	489.539	0.000	171.339	318.200	-2.648

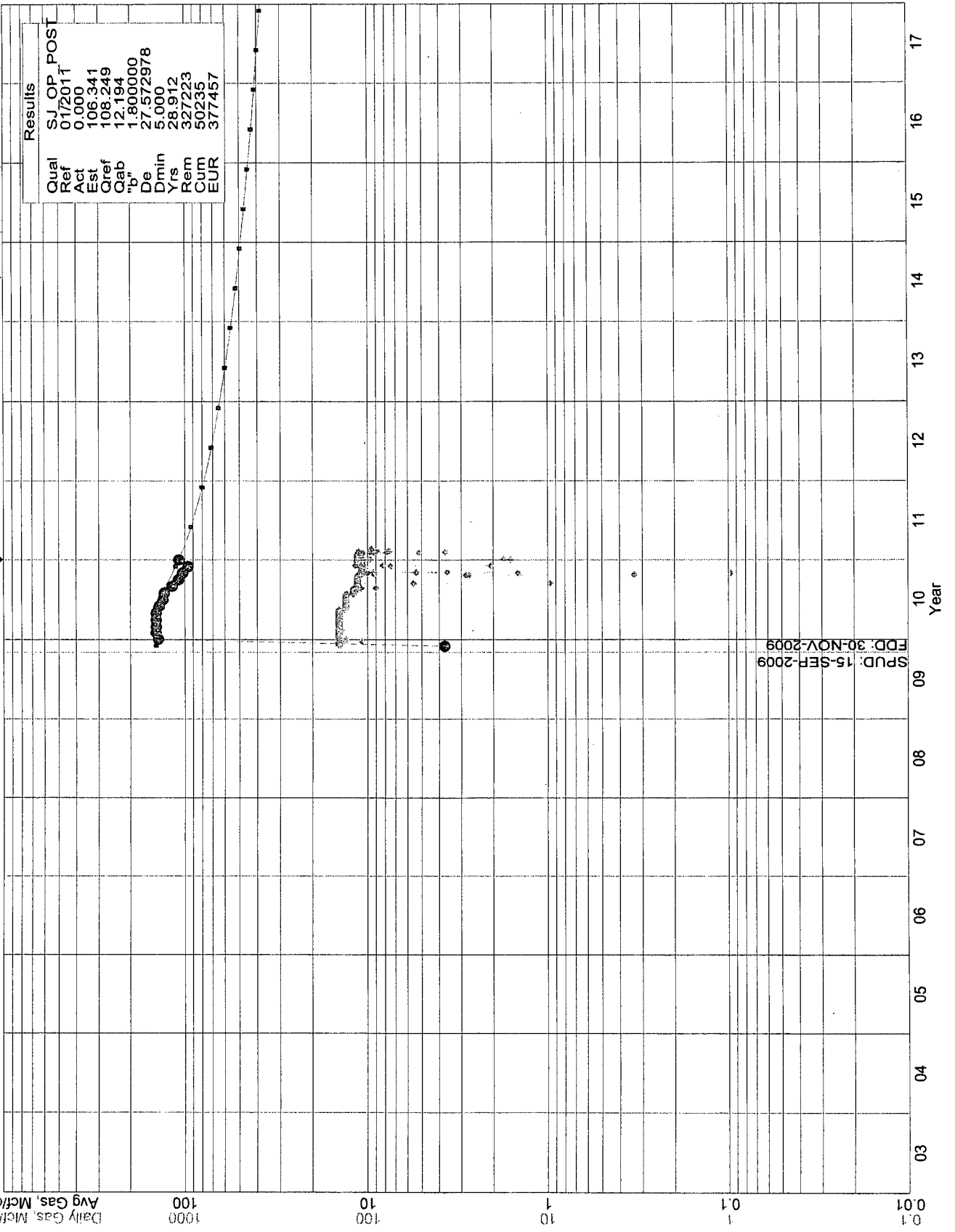
BTAX RATE OF RETURN (PCT)	8.49	ATAW RATE OF RETURN (PCT)	7.89
BTAX PAYOUT YEARS	10.59	ATAW PAY OUT YEARS	10.59
BTAX PAYOUT YEARS (DISC)	24.19	ATAW PAY OUT YEARS (DISC)	32.25
BTAX NET INCOME/INVEST	1.76	ATAW NET INCOME/INVEST	1.49
BTAX NET INCOME/INVEST(DISC)	1.02	ATAW NET INCOME/INVEST(DISC)	1.00

PRESENT WORTH PROFILE AND
 --- RATE-OF-RETURN VS. BONUS TABLE ---

P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	489.5	318.2	489.5
2.00	301.7	192.5	267.2
5.00	121.3	71.2	90.1
8.00	12.1	-2.6	-3.2
10.00	-36.9	-35.9	-41.9
12.00	-73.3	-60.6	-69.3
15.00	-111.4	-86.4	-96.7
18.00	-136.3	-103.2	-113.5
20.00	-147.8	-110.9	-120.8
25.00	-164.9	-122.0	-130.7
30.00	-171.5	-125.9	-133.2
35.00	-172.3	-125.7	-131.8
40.00	-169.7	-123.2	-128.3
45.00	-165.2	-119.3	-123.5
50.00	-159.5	-114.7	-118.3

PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	32.25
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.240
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.779
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-0.111
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	377.474
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	377.363
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	3356.163	FINAL NET GAS (PCT)	86.500

SJB_AvgDay_Gas



ROSA UNIT #025C

BLANCO MV / BASIN MC / BASIN DK

Spud: 09/15/09

Completed: 11/22/09

1st Delivery: 11/30/09

Surface Location:

1130' FSL and 1560' FWL
SE/4 SW/4 Sec 15 (N), T31N, R06W
Rio Arriba, NM

Bottom Hole Location:

834' FSL and 329' FWL
SW/4 SW/4 Sec 15 (M), T31N, R06W
Rio Arriba, NM

Elevation: 6154' GR

API # 30-039-30479

Top	MD Depth	TVD Depth
Lewis	3658'	3338'
Cliffhouse Ss.	5488'	5167'
Point Lookout	5779'	5458'
Mancos	6261'	5940'
Graneros	7901'	7580'
Dakota	8041'	7720'

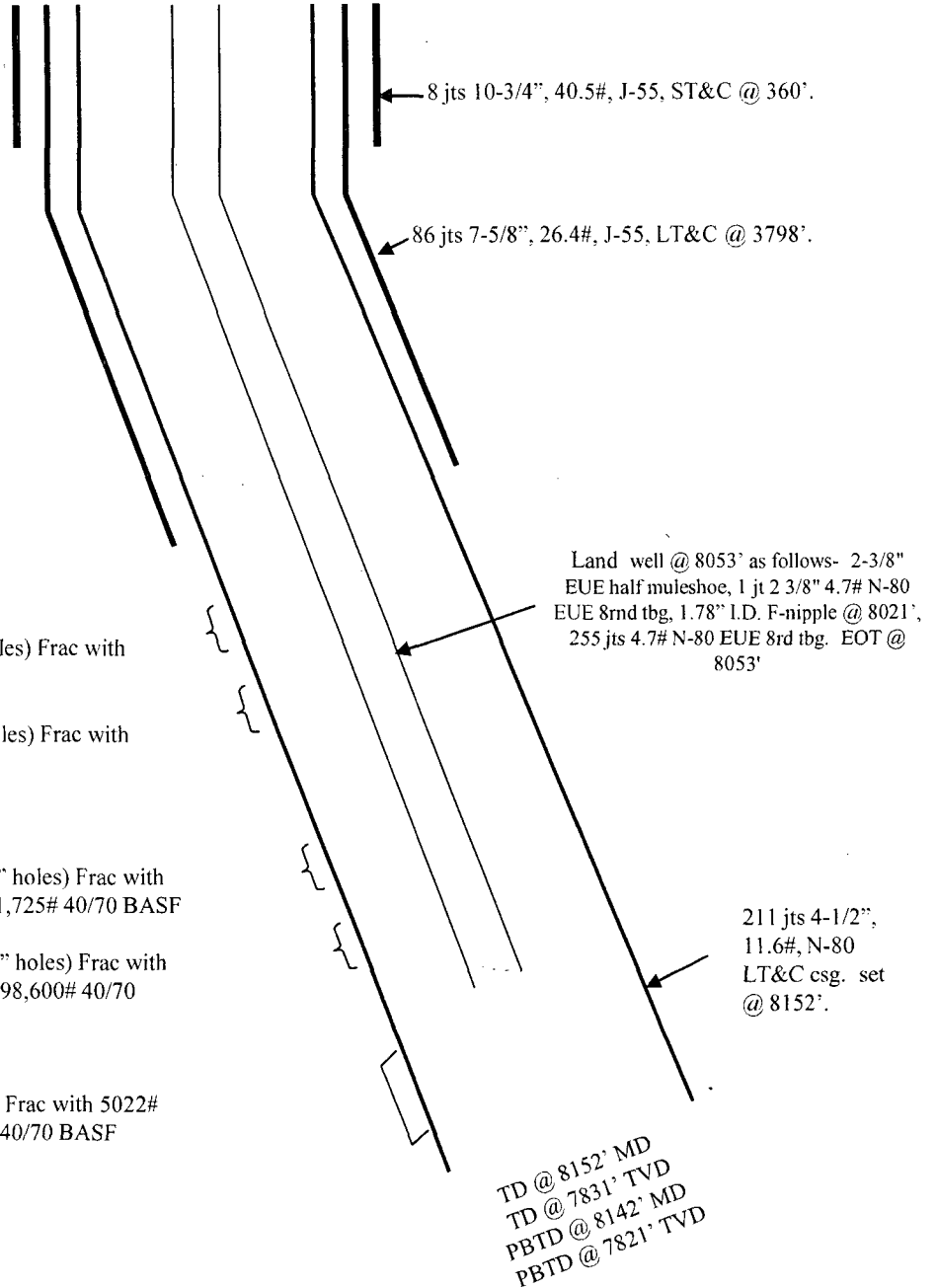
Upper MV: 5503'-5698' (50, 0.34" holes) Frac with 78,245# 20/40 mesh BASF

Lower MV: 5760'-6078' (53, 0.34" holes) Frac with 80,769# 20/40 mesh BASF

Upper Mancos: 6960'-7190' (72, 0.34" holes) Frac with 5160# 100 mesh BASF followed w/101,725# 40/70 BASF

Lower Mancos: 7260'-7396' (66, 0.34" holes) Frac with 5000# 100 mesh BASF followed with 98,600# 40/70 BASF

Dakota: 8041'-8137' (66, 0.34" holes) Frac with 5022# 100 mesh BASF followed w/121,715# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	580 sxs	1428 cu.ft.	Surface
6-3/4"	4-1/2", 11.6#	590 sxs	826 cu.ft.	3420' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30479	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 25C

II. ¹⁰ Surface Location

UL or lot no. N	Section 15	Township 31N	Range 6W	Lot. Idn	Feet from the 1130	North/South Line SOUTH	Feet from the 1560	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. M	Section 15	Township 31N	Range 6W	Lot Idn	Feet from the 934	North/South line SOUTH	Feet from the 329	East/West line WEST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
RCVD NOV 24 '09		

IV. Well Completion Data NOTE: Commingled with MV & MC

²¹ Spud Date 9-15-09	²² Ready Date 11-22-09	²³ TD 8152' MD	²⁴ PBDT 8142' MD	²⁵ Perforations 8041' - 8137'	²⁶ DHC, MC AZT-3271
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	360'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	3798'	580 sx - surface		
6-3/4"	4 1/2", 11.6#, N-80	8152'	590 sx - 3420' (CBL)		
	2.375", 4.7#, N-80	8053'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-22-09	³⁴ Test Length 2 hr	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 490 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 704 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			11-24-09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles R. 11-25-09</i>		
Title: Dirg COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: NOV 25 2009		
Date: 11-23-09		Phone: 505-634-4208			

6

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. 30-039-30479		2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN	
		3. State Oil & Gas Lease No			
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 #25C RCVD NOV 24 '09 OIL CONS. DIV.	
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER				DIST. 3	
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 Dakota	
12. Location	Unit Ltr	Section	Township	Range	Lot
Surface:	N	15	31N	6W	1130
BH:	M	15	31N	6W	934
13. Date Spudded 9-15-09	14. Date T.D Reached 9-28-09	15. Date Rig Released 9-30-09		16. Date Completed (Ready to Produce) 11-22-09	
17. Elevations (DF and RKB, RT, GR, etc) 6154'		21. Type Electric and Other Logs Run Array Induction, Compensated GR-Density-Neutron, Ultra Sonic Gas Detector, CBL			
18. Total Measured Depth of Well 8152' MD / 7831' TVD				19. Plug Back Measured Depth 8142' MD	
20. Was Directional Survey Made? YES				21. Type Electric and Other Logs Run Array Induction, Compensated GR-Density-Neutron, Ultra Sonic Gas Detector, CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name BASIN DAKOTA 8041'-8137'					
23 CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	40.5#	360'	14-3/4"	290 sxs - surface	
7-5/8"	26.4#	3798'	9-7/8"	580 sxs - surface	
4-1/2"	11.6#	8152'	6-3/4"	590 sxs - 3420' cbl	
24 LINER RECORD					
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD
					SIZE
					DEPTH SET
					PACKER SET
26 Perforation record (interval, size, and number) Dakota: 8041'-8137' (66, 0.34" holes)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
				DEPTH INTERVAL	
				AMOUNT AND KIND MATERIAL USED	
				8041' - 8137'	
				5022# 100 mesh - 121,715# 40/70	
28 To be commingled with Mesaverde and Mancos per AZT-3271 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
11-22-09	2 hr	1/2"			
Flow Tubing Press. 0	Casing Pressure 490 lbs	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF 704 mcf/d	Water - Bbl.
29. Disposition of Gas (Sold, used for fuel, vented, etc.)					30. Test Witnessed By Buddy Banks
31 List Attachments					
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 Drlg COM Date 11-23-09

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

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo 2458'	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2578'	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 3056'	T. Penn. "C"
T. Yates	T. Miss	T. Lewis 3658'	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5488'	T. Leadville
T. Queen	T. Silurian	T. Menefee 5539'	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5779'	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6261'	T. McCracken
T. Glorieta	T. McKee	T. Gallup 6667'	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn 7901'	T. Granite
T. Blinbry	T. Gr. Wash	T. Dakota 8041'	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
 No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

February 24, 2011

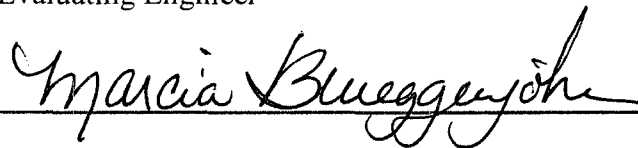
The ROSA Unit #35D DAKOTA Formation Well (commercial) is located 1020 feet from the South Line and 705 feet from the East Line, Section 5 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 1, 2009 and completed in the Dakota formation on November 3, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7847' to 7989'. This well has a 2.375" tubing string. This well was shut in with a SICP of 650 psig. On November 3, 2009 the well was tested and after flowing for 2 hours through a 16/64" choke on the 2.375" tubing, the well gauged 234 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.19% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #035D | 1PDP | DAKOTA | JAL9BADJH3 | 62262223
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 260 212 M/D 6 MOS EXP X	SJ_OP_POST
" 175 X M/D 5 EXP B/1.85 50	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 11/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #035D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:56:48
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA								INITIAL CALCULATED DATA			
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
400 START	11/2009										
401 GAS	260.00	212.00	M/D	6.00	MOS	EXP	X	42.921	4/2010	33.5147	7908.
402 "	175.00	X	M/D	5.00	EXP	B/1.85	50.00	234.165	6/2020	50.0000	5323.
403 "	X	X	M/D	30.00	YRS	EXP	5.00	364.802	10/2039	5.0000	888.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010		
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	10/2039	5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	10/2039	0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	10/2039	0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	10/2039	700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	0.865	0.865

OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	10/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	10/2039			
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00	10/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	10/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	10/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	10/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	10/2039			
914 GAS	01/2009	0	0	0	0	0	0	3118.08	7383.12	7326.72	#
915 "	X	5963.76	5706.48	6384.72	5439.62	4277.68	4030.4	#			
916 "	X	3690.94	3356.32	3435.52	3213.54	#					

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value		Total T&I	Month Risk Inv.	Tot. T&I&R	Esc. T&I&R	
800 CAPITAL	125.19	500.77 MSG	11/2009 AD	ESC INV		625.961	11/2009	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.99				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #035D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:56:48
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		10.501		0.000		9.084		0.00	3.400	1.0	0.000	30.887	30.887
12-2010	0.000		55.984		0.000		48.426		0.00	3.675	1.0	0.000	177.961	177.961
12-2011	0.000		30.489		0.000		26.373		0.00	4.759	1.0	0.000	125.510	125.510
12-2012	0.000		23.074		0.000		19.959		0.00	4.759	1.0	0.000	94.986	94.986
12-2013	0.000		19.245		0.000		16.647		0.00	4.759	1.0	0.000	79.224	79.224
12-2014	0.000		16.811		0.000		14.541		0.00	4.759	1.0	0.000	69.204	69.204
12-2015	0.000		15.091		0.000		13.054		0.00	4.759	1.0	0.000	62.124	62.124
12-2016	0.000		13.794		0.000		11.932		0.00	4.759	1.0	0.000	56.785	56.785
12-2017	0.000		12.772		0.000		11.048		0.00	4.759	1.0	0.000	52.577	52.577
12-2018	0.000		11.940		0.000		10.328		0.00	4.759	1.0	0.000	49.152	49.152
12-2019	0.000		11.246		0.000		9.728		0.00	4.759	1.0	0.000	46.295	46.295
12-2020	0.000		10.655		0.000		9.216		0.00	4.759	1.0	0.000	43.861	43.861
12-2021	0.000		10.121		0.000		8.755		0.00	4.759	1.0	0.000	41.664	41.664
12-2022	0.000		9.615		0.000		8.317		0.00	4.759	1.0	0.000	39.581	39.581
12-2023	0.000		9.134		0.000		7.901		0.00	4.759	1.0	0.000	37.602	37.602
S TOT	0.000		260.470		0.000		225.307		0.00	4.471	1.0	0.000	1007.412	1007.412
AFTER	0.000		96.509		0.000		83.481		0.00	4.759	1.0	0.000	397.293	397.293
TOTAL	0.000		356.979		0.000		308.787		0.00	4.549	1.0	0.000	1404.704	1404.704

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	2.554	1.400	0.000	26.933	125.192	500.769	0.000	625.961	-599.028		-506.432
12-2010	14.713	8.400	0.000	154.848	0.000	0.000	0.000	0.000	154.848		-381.921
12-2011	10.376	8.400	0.000	106.734	0.000	0.000	0.000	0.000	106.734		-302.456
12-2012	7.853	8.400	0.000	78.733	0.000	0.000	0.000	0.000	78.733		-248.180
12-2013	6.550	8.400	0.000	64.275	0.000	0.000	0.000	0.000	64.275		-207.153
12-2014	5.721	8.400	0.000	55.083	0.000	0.000	0.000	0.000	55.083		-174.598
12-2015	5.136	8.400	0.000	48.588	0.000	0.000	0.000	0.000	48.588		-148.008
12-2016	4.695	8.400	0.000	43.690	0.000	0.000	0.000	0.000	43.690		-125.870
12-2017	4.347	8.400	0.000	39.830	0.000	0.000	0.000	0.000	39.830		-107.183
12-2018	4.064	8.400	0.000	36.688	0.000	0.000	0.000	0.000	36.688		-91.245
12-2019	3.827	8.400	0.000	34.067	0.000	0.000	0.000	0.000	34.067		-77.542
12-2020	3.626	8.400	0.000	31.835	0.000	0.000	0.000	0.000	31.835		-65.685
12-2021	3.444	8.400	0.000	29.819	0.000	0.000	0.000	0.000	29.819		-55.401
12-2022	3.272	8.400	0.000	27.909	0.000	0.000	0.000	0.000	27.909		-46.490
12-2023	3.109	8.400	0.000	26.093	0.000	0.000	0.000	0.000	26.093		-38.775
S TOT	83.286	119.000	0.000	805.126	125.192	500.769	0.000	625.961	179.165		-38.775
AFTER	32.845	133.000	0.000	231.447	0.000	0.000	0.000	0.000	231.447		4.103
TOTAL	116.131	252.000	0.000	1036.573	125.192	500.769	0.000	625.961	410.612		4.103

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #035D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:56:48
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

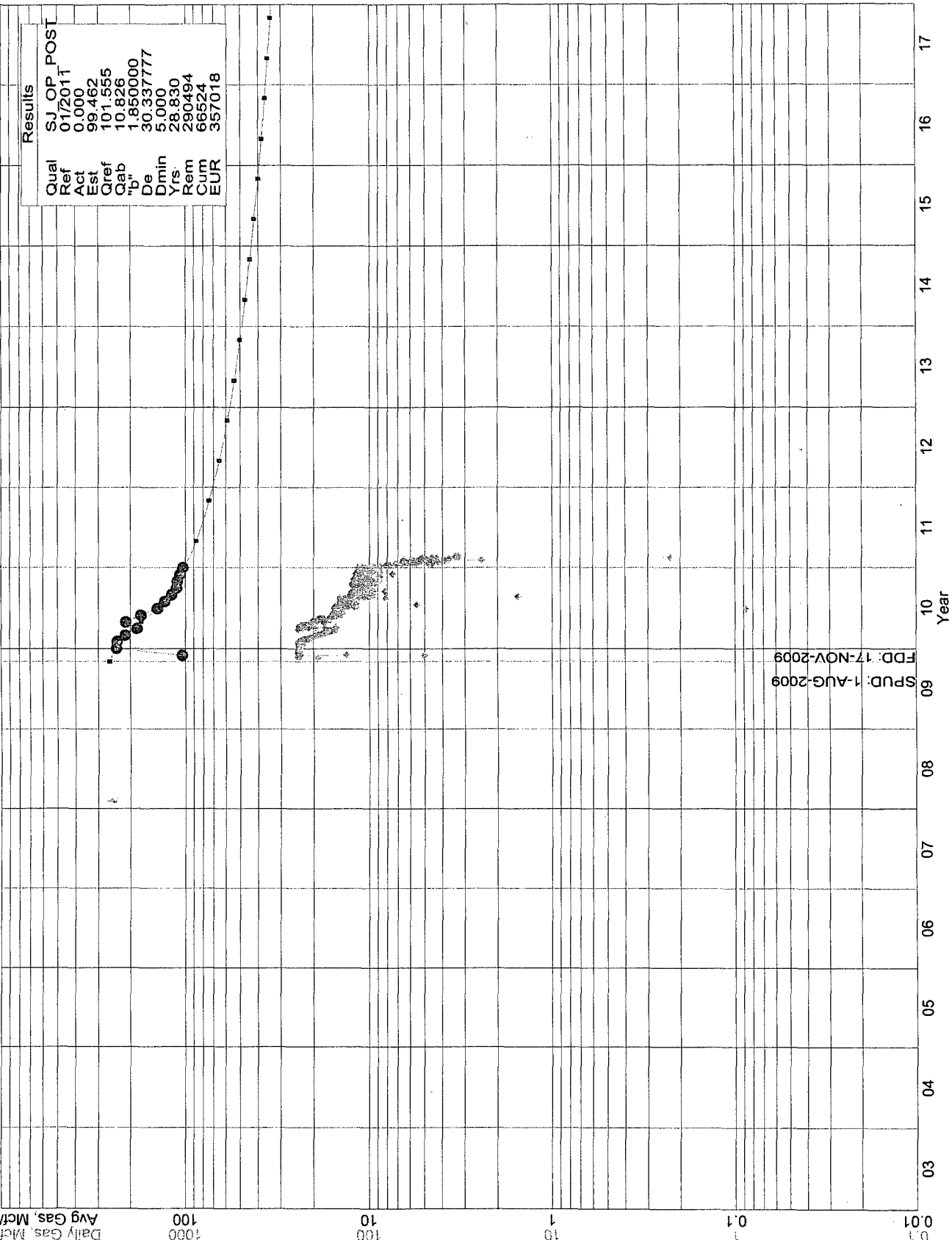
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECI-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	ATION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	26.933	3.578	0.000	500.769	0.000	-477.414	0.000	-167.095	-431.933	-361.326
12-2010	154.848	24.532	0.000	0.000	0.000	130.317	0.000	45.611	109.238	-273.490
12-2011	106.734	27.738	0.000	0.000	0.000	78.995	0.000	27.648	79.085	-214.609
12-2012	78.733	19.810	0.000	0.000	0.000	58.924	0.000	20.623	58.110	-174.550
12-2013	64.275	14.151	0.000	0.000	0.000	50.124	0.000	17.543	46.731	-144.721
12-2014	55.083	11.175	0.000	0.000	0.000	43.907	0.000	15.368	39.715	-121.249
12-2015	48.588	11.171	0.000	0.000	0.000	37.417	0.000	13.096	35.492	-101.826
12-2016	43.690	11.175	0.000	0.000	0.000	32.515	0.000	11.380	32.310	-85.454
12-2017	39.830	1.861	0.000	0.000	0.000	37.969	0.000	13.289	26.541	-73.002
12-2018	36.688	0.000	0.000	0.000	0.000	36.688	0.000	12.841	23.847	-62.642
12-2019	34.067	0.000	0.000	0.000	0.000	34.067	0.000	11.924	22.144	-53.735
12-2020	31.835	0.000	0.000	0.000	0.000	31.835	0.000	11.142	20.693	-46.028
12-2021	29.819	0.000	0.000	0.000	0.000	29.819	0.000	10.437	19.383	-39.344
12-2022	27.909	0.000	0.000	0.000	0.000	27.909	0.000	9.768	18.141	-33.551
12-2023	26.093	0.000	0.000	0.000	0.000	26.093	0.000	9.133	16.961	-28.537
S TOT	805.126	125.192	0.000	500.769	0.000	179.165	0.000	62.708	116.457	-28.537
AFTER	231.447	0.000	0.000	0.000	0.000	231.447	0.000	81.007	150.441	-0.666
TOTAL	1036.573	125.192	0.000	500.769	0.000	410.612	0.000	143.714	266.898	-0.666

BTAX RATE OF RETURN (PCT)	8.19	ATAW RATE OF RETURN (PCT)	7.97
BTAX PAYOUT YEARS	10.53	ATAW PAY OUT YEARS	10.53
BTAX PAYOUT YEARS (DISC)	27.47	ATAW PAY OUT YEARS (DISC)	32.17
BTAX NET INCOME/INVEST	1.66	ATAW NET INCOME/INVEST	1.43
BTAX NET INCOME/INVEST(DISC)	1.01	ATAW NET INCOME/INVEST(DISC)	1.00
PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	32.17
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.387
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.759
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	356.979
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	356.979
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	410.6	266.9	410.6
2.00	251.9	162.5	226.6
5.00	98.2	61.3	78.2
8.00	4.1	-0.7	-0.8
10.00	-38.5	-28.7	-33.8
12.00	-70.3	-49.5	-57.3
15.00	-104.0	-71.5	-80.8
18.00	-126.2	-85.9	-95.4
20.00	-136.6	-92.5	-101.8
25.00	-152.3	-102.3	-110.6
30.00	-158.9	-106.0	-113.2
35.00	-160.1	-106.2	-112.3
40.00	-158.3	-104.4	-109.5
45.00	-154.6	-101.4	-105.7
50.00	-149.8	-97.7	-101.4

SJB_AvgDay_Gas



ROSA UNIT #35D

BLANCO MV / BASIN MC / BASIN DK

Spud: 08/01/09

Completed: 11/03/09

1st Delivery: 11/17/09

Surface Location:

1020' FSL and 705' FEL

SE/4 SE/4 Sec 5 (P), T31N, R06W

San Juan, NM

Bottom Hole Location:

1281' FSL and 320' FEL

SE/4 SE/4 Sec 5 (P), T31N, R06W

San Juan, NM

Elevation: 6332' GR

API # 30-045-34989

Top	MD Depth	TVD Depth
Lewis	3420'	3385'
Cliffhouse Ss.	5322'	5287'
Point Lookout	5636'	5601'
Mancos	6052'	6017'
Graneros	7713'	7676'
Dakota	7844'	7805'

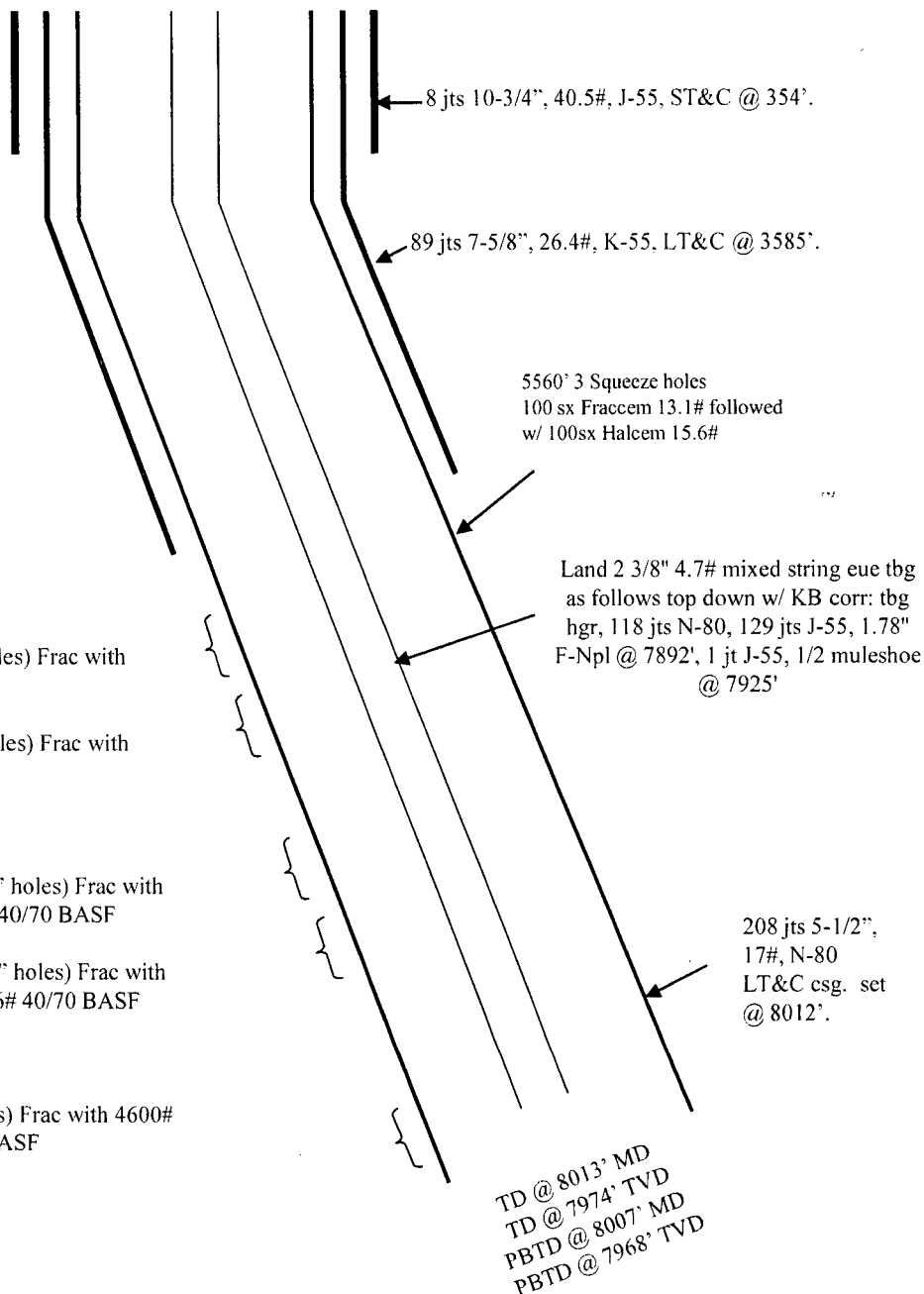
Upper MV: 5278'-5575' (61, 0.34" holes) Frac with 92,384# 20/40 mesh BASF

Lower MV: 5636'-6001' (71, 0.34" holes) Frac with 80,130# 20/40 mesh BASF

Upper Mancos: 6837'-7008' (63, 0.34" holes) Frac with 4803# 100 mesh followed w/105,019# 40/70 BASF

Lower Mancos: 7078'-7382' (66, 0.34" holes) Frac with 5654# 100 mesh followed with 100,046# 40/70 BASF

Dakota: 7847' - 7989' (84, 0.34" holes) Frac with 4600# 100 mesh followed w/99,900# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	555 sxs	1360 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	503 cu.ft.	2850' CBL

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078765

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.
Rosa Unit #35D

9. API WELL NO.

30-045-34989-01C1

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 5, T31N, R6W

12. COUNTY OR 13. STATE
San Juan New Mexico

19. ELEVATION CASINGHEAD

ROTARY TOOLS
x

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: 1 OIL WELL ☒ GAS WELL DRY OTHER
b. TYPE OF COMPLETION:
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF. RESVR. OTHER

2. NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1020' FSL & 705' FEL, sec 5, T31N, R6W
At top production interval reported below: 1281' FSL & 320' FEL, sec 5, T31N, R6W
At total depth: Same

15. DATE SPUNDED 8-1-09 16. DATE T.D. REACHED 8-26-09 17. DATE COMPLETED (READY TO PRODUCE) 11/3/09 18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6332' GR

20. TOTAL DEPTH, MD & TVD 8013' MD / 7974' TVD 21. PLUG, BACK T.D., MD & TVD 8007' MD / 7968' TVD 22. IF MULTICOMP., HOW MANY 3* 23. INTERVALS DRILLED BY

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA: 7847' - 7989' MD Commingled with MV & MC per AZT-3244

26. TYPE ELECTRIC AND OTHER LOGS RUN
Pulsed Neutron Decay Log and CBL

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
10-3/4", J-55	40.5#	354'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3585'	9-7/8"	555 SX - SURFACE	
5-1/2", N-80	17.0#	8012'	6-3/4"	360 SX - 2850' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	7925'	none

31. PERFORATION RECORD (Interval, size, and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7847' - 7989'	Fraced with 4600# 100 mesh BASF followed with 99,900# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
11/3/09	2 hr	16-64"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	650 psi				234 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

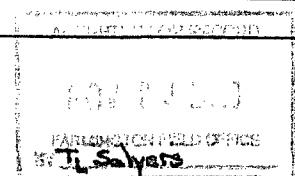
TEST WITNESSED BY: Craig Ward

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 Pley TITLE Regulatory Specialist DATE 11/5/09

OPERATOR



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	TOP			
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH	
					LEWIS	3420'	3385'	
					CLIFFHOUSE	5322'	5287'	
					POINT LOOKOUT	5636'	5601'	
					MANCOS	6052'	6017'	
					GRANEROS	7713'	7676'	
					DAKOTA	7844'	7805'	

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34989	⁵ Pool Name BASIN DAKOTA NSL 6077	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 35D

II. ¹⁰ Surface Location

Ul or lot no. P	Section 5	Township 31N	Range 6W	Lot Idn	Feet from the 1020	North/South Line SOUTH	Feet from the 705	East/West line EAST	County SAN JUAN

¹¹ Bottom Hole Location

UL or lot no. P	Section 5	Township 31N	Range 6W	Lot Idn	Feet from the 1281	North/South line SOUTH	Feet from the 320	East/West line EAST	County SAN JUAN
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

OIL CONS. DIV.
DIST. 3

IV. Well Completion Data NOTE: COMMINGLED WITH MV AND MC

²¹ Spud Date 8-1-09	²² Ready Date 11/3/09	²³ TD 8013' MD	²⁴ PBDT 8007'	²⁵ Perforations 7847'-7989'	²⁶ DHC, MC AZT-3244
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 354'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3585'	555 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8012'	360 sx - 2850' (CBL)		
	2.375", 4.7#, J-55 & N-80 EUE 8rd	7925'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
		11/1/09	2 hrs	0	650 psi
³⁷ Choke Size 16/64	³⁸ Oil	³⁹ Water	⁴⁰ Gas 234 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>			11-18-09 OIL CONSERVATION DIVISION		
Printed name: Heather Riley			Approved by: <i>Charles B. 11-20-09</i>		
Title: Regulatory Specialist			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: Heather.riley@williams.com			Approval Date: NOV 20 2009		
Date: 11/5/09		Phone: 505-634-4222		<i>state review/charta</i>	

February 24, 2011

The ROSA Unit #72B DAKOTA Formation Well (commercial) is located 2260 feet from the South Line and 660 feet from the East Line, Section 6 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 7, 2009 and completed in the Dakota formation on May 14, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8405' to 8517'. This well has a 2.375" tubing string. This well was shut in with a SICP of 8 psig. On May 13, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 400 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 23.68% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggemann", is written over a horizontal line.

Marcia Brueggemann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #072B | 1PDP | DAKOTA | J7PKN9JI20 | 62209262
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 05/2009	SJ_OP_POST
GAS 470 X M/D 5 MO B/2.0 65	SJ_OP_POST
" 143 X M/D 11 IMO FLAT 0	SJ_OP_POST
" X 60 M/D 5 EXP B/1.5 75	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST
ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 414.79304 467.07921 M\$G 02/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22718 RSV CAT: 1PDP
 Well Name: ROSA UNIT #072B
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:48:34
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	05/2009										
401 GAS	470.00	X	M/D	5.00	MO	B/2.0 65.00	47.714	9/2009	65.0000	14296.	7162.
402 "	143.00	X	M/D	11.00	IMO	FLAT 0.00	95.559	8/2010		4350.	4350.
403 "	X	60.00	M/D	5.00	EXP	B/1.5 75.00	758.440	6/2023	75.0000	36877.	1825.
404 "	X	X	M/D	30.00	YRS	EXP 5.00	995.868	4/2039	5.0000	1825.	810.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010			
512 "	5.75	X	\$/M	TO	LIFE	PC 0.00		4/2039		5.750	5.750
600 STX/GAS	3.75	X	%	TO	LIFE	PC 0.00		4/2039		0.037	0.037
601 OPC/T	700.00	X	\$/M	TO	LIFE	PC 0.00		4/2039		700.000	700.000
602 ATX	4.69	X	%	TO	LIFE	PC 0.00		4/2039		0.047	0.047
603 OPC/T	322.00	X	\$/M	TO	LIFE	PC 0.00		4/2039		322.000	700.000
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT 0.00		4/2039		1.000	1.000
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT 0.00		4/2039		0.865	0.865
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT 0.00		4/2039		0.865	0.865
OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
901 S /92	S/95	X	FRAC	TO	LIFE	DIV 146.00		4/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00		4/2039			
905 S /89	0.99	X	FRAC	TO	LIFE	MUL 89.00		4/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00		4/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00		4/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00		4/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00		4/2039			
914 GAS	01/2009	0	0	0	1728	11318	8950	7536	0	3985.44	#
915 "	X	4459.44	4474.08	4039.44	4479.84	4166.16	4556.16	#			
916 "	X	4463.52	4617.84	3630.47	2229.12	1816.2	1822.2	#			
INVESTMENTS	Tangible	Intang	Units	Invest.	Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	414.79	467.08	M\$G	02/2009	AD	ESC INV	881.872	2/2009	0	881.8	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 22718 RSV CAT: 1PDP
 Well Name: ROSA UNIT #072B
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:48:34
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		37.977		0.000		32.850		0.00	2.397	1.0	0.000	78.752	78.752
12-2010	0.000		57.892		0.000		50.076		0.00	3.901	1.0	0.000	195.344	195.344
12-2011	0.000		129.783		0.000		112.262		0.00	4.752	1.0	0.000	533.427	533.427
12-2012	0.000		77.733		0.000		67.239		0.00	4.752	1.0	0.000	319.496	319.496
12-2013	0.000		58.758		0.000		50.825		0.00	4.752	1.0	0.000	241.503	241.503
12-2014	0.000		48.326		0.000		41.802		0.00	4.752	1.0	0.000	198.625	198.625
12-2015	0.000		41.568		0.000		35.956		0.00	4.752	1.0	0.000	170.851	170.851
12-2016	0.000		36.770		0.000		31.806		0.00	4.752	1.0	0.000	151.129	151.129
12-2017	0.000		33.155		0.000		28.679		0.00	4.752	1.0	0.000	136.270	136.270
12-2018	0.000		30.315		0.000		26.223		0.00	4.752	1.0	0.000	124.600	124.600
12-2019	0.000		28.015		0.000		24.233		0.00	4.752	1.0	0.000	115.148	115.148
12-2020	0.000		26.108		0.000		22.583		0.00	4.752	1.0	0.000	107.306	107.306
12-2021	0.000		24.495		0.000		21.188		0.00	4.752	1.0	0.000	100.678	100.678
12-2022	0.000		23.110		0.000		19.990		0.00	4.752	1.0	0.000	94.986	94.986
12-2023	0.000		21.905		0.000		18.947		0.00	4.752	1.0	0.000	90.031	90.031
S TOT	0.000		675.908		0.000		584.661		0.00	4.546	1.0	0.000	2658.146	2658.146
AFTER	0.000		226.617		0.000		196.024		0.00	4.752	1.0	0.000	931.432	931.432
TOTAL	0.000		902.526		0.000		780.685		0.00	4.598	1.0	0.000	3589.577	3589.577

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	6.511	8.176	0.000	64.065	414.793	467.079	0.000	881.872	-817.807	-735.145	
12-2010	16.150	12.264	0.000	166.930	0.000	0.000	0.000	0.000	166.930	-600.919	
12-2011	44.100	12.264	0.000	477.063	0.000	0.000	0.000	0.000	477.063	-245.737	
12-2012	26.414	12.264	0.000	280.818	0.000	0.000	0.000	0.000	280.818	-52.150	
12-2013	19.966	12.264	0.000	209.273	0.000	0.000	0.000	0.000	209.273	81.430	
12-2014	16.421	12.264	0.000	169.941	0.000	0.000	0.000	0.000	169.941	181.869	
12-2015	14.125	12.264	0.000	144.462	0.000	0.000	0.000	0.000	144.462	260.924	
12-2016	12.494	12.264	0.000	126.371	0.000	0.000	0.000	0.000	126.371	324.957	
12-2017	11.266	12.264	0.000	112.741	0.000	0.000	0.000	0.000	112.741	377.852	
12-2018	10.301	12.264	0.000	102.035	0.000	0.000	0.000	0.000	102.035	422.178	
12-2019	9.520	12.264	0.000	93.364	0.000	0.000	0.000	0.000	93.364	459.733	
12-2020	8.871	12.264	0.000	86.171	0.000	0.000	0.000	0.000	86.171	491.827	
12-2021	8.323	12.264	0.000	80.090	0.000	0.000	0.000	0.000	80.090	519.447	
12-2022	7.853	12.264	0.000	74.870	0.000	0.000	0.000	0.000	74.870	543.353	
12-2023	7.443	12.264	0.000	70.324	0.000	0.000	0.000	0.000	70.324	564.145	
S TOT	219.757	179.872	0.000	2258.517	414.793	467.079	0.000	881.872	1376.645	564.145	
AFTER	77.004	188.048	0.000	666.379	0.000	0.000	0.000	0.000	666.379	686.200	
TOTAL	296.761	367.920	0.000	2924.896	414.793	467.079	0.000	881.872	2043.024	686.200	

PropID: 22718 RSV CAT: 1PDP
 Well Name: ROSA UNIT #072B
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:48:34
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

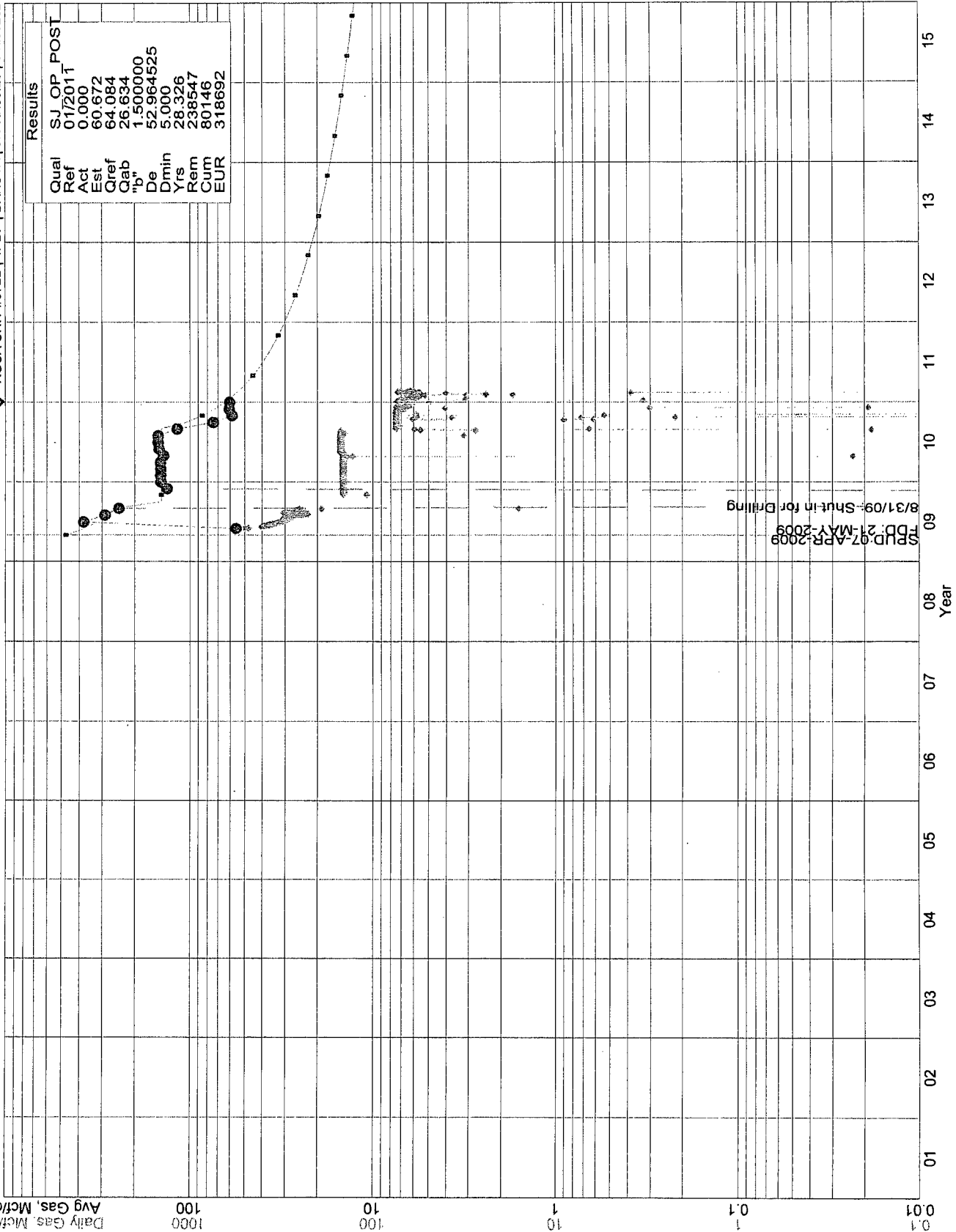
EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	TAXABLE CASH FLOW M\$-----	DEPRECI- ATION M\$-----	DEPLETION M\$-----	INTANG. EXPENSED M\$-----	INTEREST PAID & CAP M\$-----	TAXABLE INCOME M\$-----	TAX CREDIT M\$-----	TAXES PAYABLE M\$-----	CASH FLOW ATAX M\$-----	8.0% CUM. DISC ATAX M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	64.065	93.135	0.000	467.079	0.000	-496.149	0.000	-173.652	-644.155	-584.344
12-2010	166.930	91.904	0.000	0.000	0.000	75.026	0.000	26.259	140.671	-471.233
12-2011	477.063	65.634	0.000	0.000	0.000	411.429	0.000	144.000	333.063	-223.262
12-2012	280.818	46.885	0.000	0.000	0.000	233.932	0.000	81.876	198.942	-86.118
12-2013	209.273	37.027	0.000	0.000	0.000	172.246	0.000	60.286	148.987	8.981
12-2014	169.941	37.013	0.000	0.000	0.000	132.927	0.000	46.524	123.416	81.923
12-2015	144.462	37.027	0.000	0.000	0.000	107.435	0.000	37.602	106.860	140.402
12-2016	126.371	6.167	0.000	0.000	0.000	120.204	0.000	42.071	84.299	183.117
12-2017	112.741	0.000	0.000	0.000	0.000	112.741	0.000	39.459	73.281	217.498
12-2018	102.035	0.000	0.000	0.000	0.000	102.035	0.000	35.712	66.323	246.310
12-2019	93.364	0.000	0.000	0.000	0.000	93.364	0.000	32.677	60.687	270.721
12-2020	86.171	0.000	0.000	0.000	0.000	86.171	0.000	30.160	56.011	291.582
12-2021	80.090	0.000	0.000	0.000	0.000	80.090	0.000	28.032	52.059	309.535
12-2022	74.870	0.000	0.000	0.000	0.000	74.870	0.000	26.204	48.665	325.074
12-2023	70.324	0.000	0.000	0.000	0.000	70.324	0.000	24.613	45.710	338.589
S TOT	2258.517	414.793	0.000	467.079	0.000	1376.645	0.000	481.826	894.819	338.589
AFTER	666.379	0.000	0.000	0.000	0.000	666.379	0.000	233.233	433.146	417.924
TOTAL	2924.896	414.793	0.000	467.079	0.000	2043.024	0.000	715.058	1327.965	417.924

BTAX RATE OF RETURN (PCT)	23.68	ATAX RATE OF RETURN (PCT)	20.21
BTAX PAYOUT YEARS	4.95	ATAX PAY OUT YEARS	5.19
BTAX PAYOUT YEARS (DISC)	5.72	ATAX PAY OUT YEARS (DISC)	6.24
BTAX NET INCOME/INVEST	3.32	ATAX NET INCOME/INVEST	2.51
BTAX NET INCOME/INVEST(DISC)	1.87	ATAX NET INCOME/INVEST(DISC)	1.53
PRODUCTION START DATE	05/2009	PROJECT LIFE (YEARS)	31.67
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	1.768
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.752
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	902.526
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	902.526
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND ---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W. FACTOR %-----	B.F.I.T. WORTH M\$-----	A.F.I.T. WORTH M\$-----	A.F.I.T. BONUS M\$-----
0.00	2043.0	1328.0	2043.0
2.00	1534.5	988.8	1381.8
5.00	1020.9	644.2	823.9
8.00	686.2	417.9	506.3
10.00	524.4	307.9	363.5
12.00	396.0	220.3	254.9
15.00	248.3	119.0	134.6
18.00	138.3	43.3	48.1
20.00	80.0	3.1	3.4
25.00	-28.8	-72.1	-77.9
30.00	-101.8	-122.7	-130.7
35.00	-152.0	-157.3	-165.9
40.00	-186.8	-181.1	-189.6
45.00	-210.9	-197.5	-205.4
50.00	-227.5	-208.4	-215.8

SJB_AvgDay_Gas



Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	60.672
Qref	64.084
Qab	26.634
"b"	1.500000
De	52.964525
Dmin	5.000
Yrs	28.326
Rem	238547
Cum	80146
EUR	318692

**ROSA UNIT #72B
BLANCO MV/BASIN MC/BASIN DK**

Surface Location:

2260' FSL and 600' FEL
NE/4 SE/4 Sec 6 (I), T31N, R05W
Rio Arriba, NM

Bottom Hole Location:

2126' FSL and 2306' FEL
NW/4 SE/4 Sec 6 (J), T31N, R05W
Rio Arriba, NM

Elevation: 6334' GR

API # 30-039-30336

Spud: 04/07/09

Completed: 05/14/09

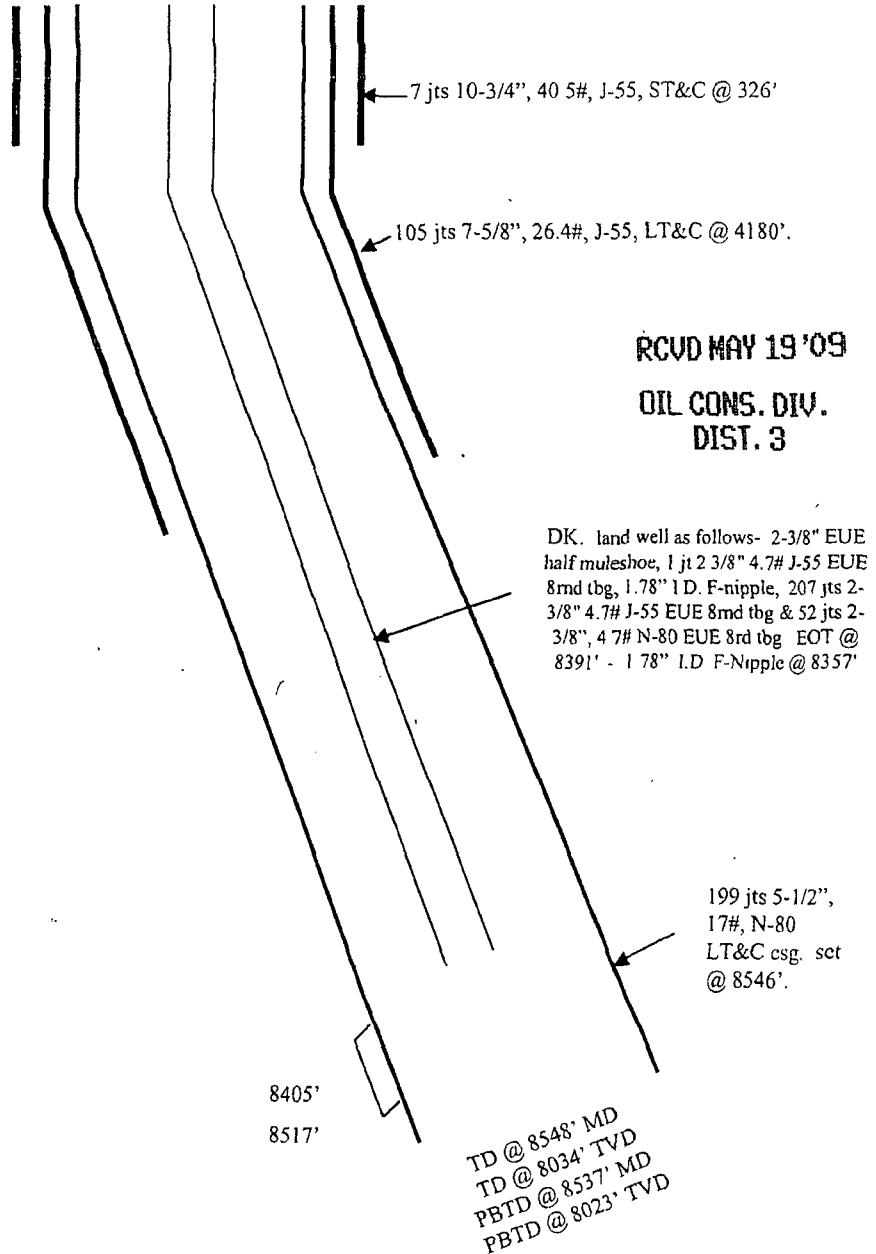
1st Delivery: 0/0/00

Top	MD Depth	TVD Depth
Pictured Cliffs	3641'	3137'
Lewis	3978'	3468'
Cliffhouse Ss.	5876'	5363'
Menefee	5953'	5440'
Point Lookout	6132'	5800'
Mancos	6608'	6096'
Dakota	8402'	7888'

Stimulation:

NOTE: Dakota only completed at this time

Dakota: 8405' - 8517' (90, 0.34" holes)
Frac with 5023# 100 mesh BASF
followed with 142,436# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	680 sxs	1698 cu.ft.	Surface
6-3/4"	5-1/2", 17#	325 sxs	454 cu.ft.	4400' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30336	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 72B

II. ¹⁰ Surface Location

UL or lot no. I	Section 6	Township 31N	Range 5W	Lot.Idn	Feet from the 2260	North/South Line SOUTH	Feet from the 660	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. J	Section 6	Township	Range 5W	Lot Idn	Feet from the 2126	North/South line SOUTH	Feet from the 2306	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
RCVD MAY 19 '09		

IV. Well Completion Data NOTE: Mesaverde to be completed at a later date

OIL CONS. DIV.

²¹ Spud Date 4-7-09	²² Ready Date 5-14-09	²³ TD 8548' MD	²⁴ PBDT 8537' MD	²⁵ Perforations 8405' - 8517'	²⁶ DHC, MC DIST 3
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 326'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	4180'	680 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8546'	325 sx - 4400' (CBL)		
	2.375", 4.7#, J-55 & N-80	8391'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 5-13-08	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 8 oz
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 400 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			OIL CONSERVATION DIVISION Approved by: <i>Charles</i> <i>USAHA</i> 6-1-09		
Printed name: Larry Higgins			Title: SUPERVISOR DISTRICT #3		
Title: Drig COM			Approval Date: JUN 01 2009		
E-mail Address: larry.higgins@williams.com					
Date: 5-18-09	Phone: 505-634-4208				

6/10/09

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

5 LEASE DESIGNATION AND LEASE NO.
NMSF-078767

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED

7 UNIT AGREEMENT NAME

Rosa Unit

1a TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

MAY 13 2009

Report to lease

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

Bureau of Land Management
Farmington Field Office

3 ADDRESS AND TELEPHONE NO

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #72B

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 2260' FSL & 600' FEL, sec 6, T31N, R5W
At top production interval reported below: 2126' FSL & 2306' FEL, sec 6, T31N, R5W
At total depth Same

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11 SEC., T, R, M., OR BLOCK AND
SURVEY OR AREA
Sec 6, T31N, R5W

12 COUNTY OR 13 STATE
Rio Arriba New Mexico

15 DATE
SPUDDED
4-7-09

16 DATE T.D.
REACHED
4-27-09

17 DATE COMPLETED (READY TO PRODUCE)
5-14-09

14 PERMIT NO DATE ISSUED

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6334' GR

19 ELEVATION CASINGHEAD

20 TOTAL DEPTH, MD & TVD
8548' MD / 8034' TVD

21 PLUG, BACK T.D., MD & TVD
8537' MD

22 IF MULTICOMP,
HOW MANY
3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA 8405' - 8517' MD * Mesaverde and Mancos to be completed at later date

25 WAS DIRECTIONAL SURVEY MADE
YES

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Gamma Ray-Density-Neutron, Temperature and CBL

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
10-3/4", J-55	40.5#	326'	14-3/4"	290 SX - SURFACE ✓	
7-5/8", J-55	26.4#	4180'	9-7/8"	680 SX - SURFACE ✓	
5-1/2", N-80	17.0#	8546'	6-3/4"	325 SX - 4400' (CBL) ✓	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4 7#, J-55 & N-80 EUF 8rd	8391	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota 8405' - 8517' Total of 90, 0 3/4" holes

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

DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

8405' - 8517'

Faced with 5023# 100 mesh BASF followed with 142.436# 40/70 mesh BASF

RCVD JUN 1 '09

OIL CONS. DIV.

33 PRODUCTION

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (1 flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKER SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
5-13-09	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	8 oz.				400 mcf/d ✓		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY: Craig Ward

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 Hester

TITLE Drig COM

DATE 5-18-09

NMOCD

ACCEPTED FOR RECORD

JUN 01 2009

FARMINGTON FIELD OFFICE
BY T. S. V. 1

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents like col, 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
				PICTURED CLIFFS		3641'	3137'
				LEWIS		3978'	3468'
				CLIFFHOUSE		5876'	5363'
				MENEREE		5953'	5440'
				POINT LOOKOUT		6132'	5800'
				MANCOS		6608'	6096'
				DAKOTA		8402'	7888'

February 24, 2011

The ROSA Unit #129D DAKOTA Formation Well (commercial) is located 1670 feet from the South Line and 2000 feet from the West Line, Section 34 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 10, 2009 and completed in the Dakota formation on October 11, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8010' to 8088'. This well has a 2.375" tubing string. This well was shut in with a SICP of 850 psig. On October 10, 2009 the well was tested and after flowing for 2 hours through a 1/4" choke on the 2.375" tubing, the well gauged 305 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 10.37% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #129D | 1PDP | DAKOTA | JAL9B08QQ1 | 62260941
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 09/2009	SJ_OP_POST
GAS 143 X M/D 13 MOS FLAT 0	SJ_OP_POST
" 167 X M/D 5 EXP B/1.8 35	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 900 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.BPO_WI @M.BPO_NRI @M.BPO_NRI FRAC 1 M\$/746	BASE
" @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 327.73146 368.87973 M\$G 08/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #129D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 17:06:27
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA			
	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	09/2009										
401 GAS	143.00	X	M/D	13.00	MOS	FLAT	0.00	56.544	9/2010		4350.
402 "	167.00	X	M/D	5.00	EXP	B/1.8	35.00	301.932	9/2020	35.0000	5080.
403 "	X	X	M/D	30.00	YRS	EXP	5.00	481.635	8/2039	5.0000	1237.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010		
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00		8/2039	5.750	5.750
600 ATX	4.69	X	%	TO	LIFE	PC	0.00		8/2039	0.047	0.047
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		8/2039	0.037	0.037
602 OPC/T	900.00	X	\$/M	TO	LIFE	PC	0.00		8/2039	900.000	900.000
705 LSE/WI	0.9268	D	FRAC	1.000	M\$/746	FLAT	0.00			0.927	0.927
706 " WI	0.93	D	FRAC	TO	LIFE	FLAT	0.00		8/2039	0.927	0.927
720 NET/OIL	0.8022	D	FRAC	1.000	M\$/746	FLAT	0.00			0.802	0.802
721 " OIL	0.80	D	FRAC	TO	LIFE	FLAT	0.00		8/2039	0.798	0.798
740 NET/GAS	0.8022	D	FRAC	1.000	M\$/746	FLAT	0.00			0.802	0.802
741 " GAS	0.80	D	FRAC	TO	LIFE	FLAT	0.00		8/2039	0.798	0.798

OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	8/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	8/2039			
905 S /89	0.98	X	FRAC	TO	LIFE	MUL 89.00	8/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	8/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	8/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	8/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	8/2039			
914 GAS	01/2009	0.0	0.0	0.0	0.0	613.44 4314.49 4456.56 #	9.384 12/2009			
915 "	X	4453.44	4026.72	4454.4	4191.6	4459.44 4318.08 #	35.288 6/2010			
916 "	X	4460.4	4066.8	5031.84	4753.2	3807.12 #	57.408 11/2010			

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	327.73	368.88	M\$G	08/2009 AD	ESC INV	696.611	8/2009	0	696.6	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.98
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #129D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 17:06:27
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF			OIL, MBBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	9.384			0.000	7.510			0.00	3.300	1.0	0.000	24.783	24.783
12-2010	0.000	52.523			0.000	41.921			0.00	3.573	1.0	0.000	149.780	149.780
12-2011	0.000	43.571			0.000	34.776			0.00	4.692	1.0	0.000	163.184	163.184
12-2012	0.000	32.983			0.000	26.325			0.00	4.692	1.0	0.000	123.528	123.528
12-2013	0.000	27.462			0.000	21.919			0.00	4.692	1.0	0.000	102.853	102.853
12-2014	0.000	23.943			0.000	19.110			0.00	4.692	1.0	0.000	89.671	89.671
12-2015	0.000	21.454			0.000	17.123			0.00	4.692	1.0	0.000	80.350	80.350
12-2016	0.000	19.577			0.000	15.625			0.00	4.692	1.0	0.000	73.321	73.321
12-2017	0.000	18.098			0.000	14.445			0.00	4.692	1.0	0.000	67.782	67.782
12-2018	0.000	16.895			0.000	13.485			0.00	4.692	1.0	0.000	63.277	63.277
12-2019	0.000	15.893			0.000	12.684			0.00	4.692	1.0	0.000	59.521	59.521
12-2020	0.000	15.040			0.000	12.004			0.00	4.692	1.0	0.000	56.330	56.330
12-2021	0.000	14.284			0.000	11.400			0.00	4.692	1.0	0.000	53.496	53.496
12-2022	0.000	13.570			0.000	10.830			0.00	4.692	1.0	0.000	50.821	50.821
12-2023	0.000	12.891			0.000	10.289			0.00	4.692	1.0	0.000	48.280	48.280
S TOT	0.000	337.569			0.000	269.445			0.00	4.479	1.0	0.000	1206.977	1206.977
AFTER	0.000	135.272			0.000	107.965			0.00	4.692	1.0	0.000	506.623	506.623
TOTAL	0.000	472.841			0.000	377.411			0.00	4.540	1.0	0.000	1713.600	1713.600

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	2.049	3.336	0.000	19.398	303.728	341.863	0.000	645.591	-626.193	-540.206	-540.206
12-2010	12.383	10.009	0.000	127.388	0.000	0.000	0.000	0.000	127.388	-437.776	-437.776
12-2011	13.491	10.009	0.000	139.684	0.000	0.000	0.000	0.000	139.684	-333.779	-333.779
12-2012	10.212	10.009	0.000	103.306	0.000	0.000	0.000	0.000	103.306	-262.563	-262.563
12-2013	8.503	10.009	0.000	84.340	0.000	0.000	0.000	0.000	84.340	-208.728	-208.728
12-2014	7.413	10.009	0.000	72.249	0.000	0.000	0.000	0.000	72.249	-166.027	-166.027
12-2015	6.643	10.009	0.000	63.698	0.000	0.000	0.000	0.000	63.698	-131.169	-131.169
12-2016	6.062	10.009	0.000	57.250	0.000	0.000	0.000	0.000	57.250	-102.160	-102.160
12-2017	5.604	10.009	0.000	52.170	0.000	0.000	0.000	0.000	52.170	-77.683	-77.683
12-2018	5.231	10.009	0.000	48.037	0.000	0.000	0.000	0.000	48.037	-56.815	-56.815
12-2019	4.921	10.009	0.000	44.592	0.000	0.000	0.000	0.000	44.592	-38.879	-38.879
12-2020	4.657	10.009	0.000	41.664	0.000	0.000	0.000	0.000	41.664	-23.361	-23.361
12-2021	4.423	10.009	0.000	39.064	0.000	0.000	0.000	0.000	39.064	-9.890	-9.890
12-2022	4.202	10.009	0.000	36.611	0.000	0.000	0.000	0.000	36.611	1.801	1.801
12-2023	3.991	10.009	0.000	34.280	0.000	0.000	0.000	0.000	34.280	11.936	11.936
S TOT	99.784	143.462	0.000	963.730	303.728	341.863	0.000	645.591	318.139	11.936	11.936
AFTER	41.884	156.807	0.000	307.932	0.000	0.000	0.000	0.000	307.932	68.883	68.883
TOTAL	141.668	300.270	0.000	1271.662	303.728	341.863	0.000	645.591	626.070	68.883	68.883

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #129D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 17:06:27
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

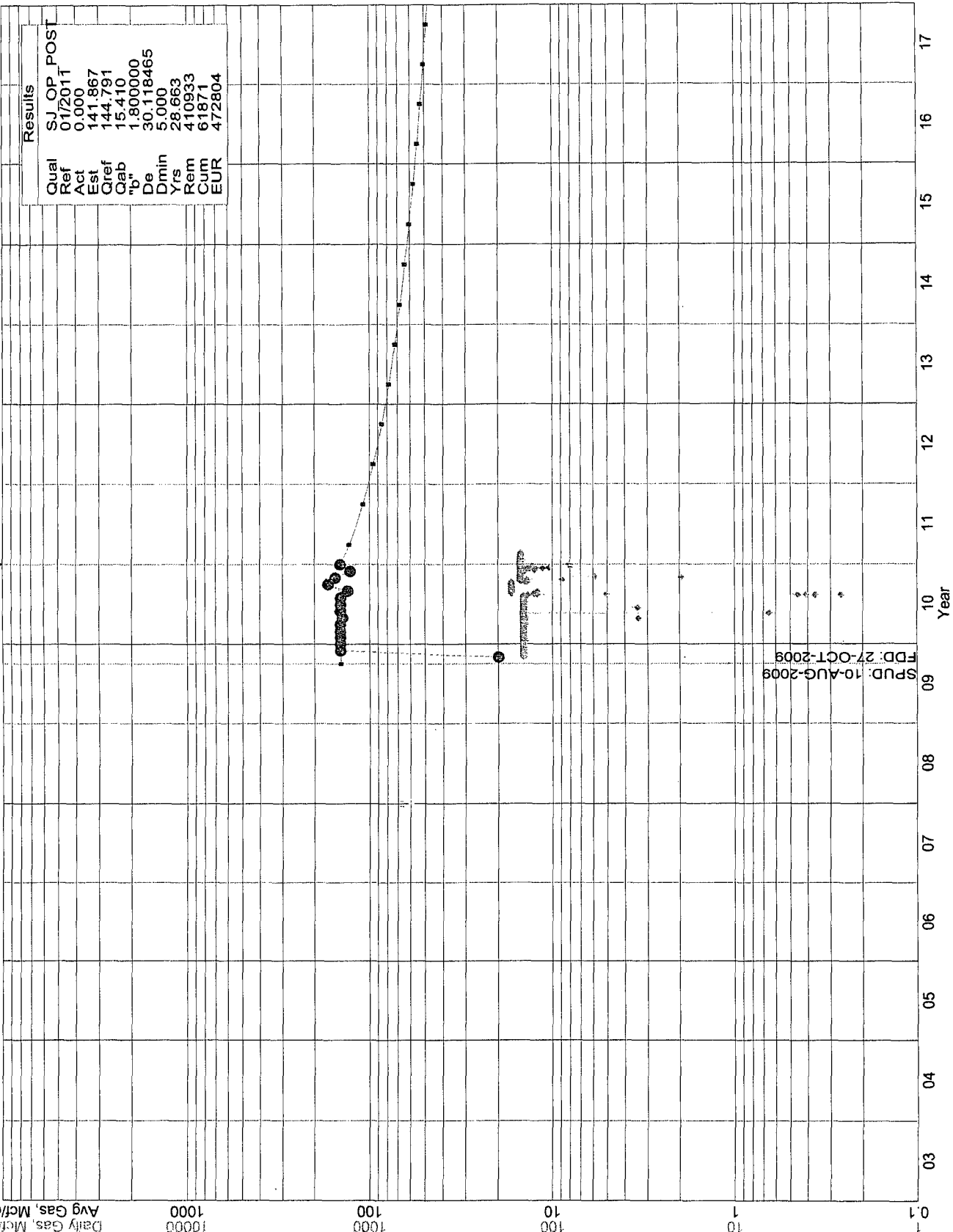
A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW			EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	19.398	14.468	0.000	341.863	0.000	-336.932	0.000	-117.926	-508.267	-437.798
12-2010	127.388	53.730	0.000	0.000	0.000	73.658	0.000	25.780	101.607	-356.098
12-2011	139.684	67.296	0.000	0.000	0.000	72.388	0.000	25.336	114.348	-270.963
12-2012	103.306	48.060	0.000	0.000	0.000	55.246	0.000	19.336	83.970	-213.077
12-2013	84.340	34.331	0.000	0.000	0.000	50.009	0.000	17.503	66.837	-170.414
12-2014	72.249	27.113	0.000	0.000	0.000	45.136	0.000	15.798	56.451	-137.050
12-2015	63.698	27.103	0.000	0.000	0.000	36.595	0.000	12.808	50.890	-109.201
12-2016	57.250	27.113	0.000	0.000	0.000	30.137	0.000	10.548	46.702	-85.537
12-2017	52.170	4.515	0.000	0.000	0.000	47.654	0.000	16.679	35.491	-68.886
12-2018	48.037	0.000	0.000	0.000	0.000	48.037	0.000	16.813	31.224	-55.322
12-2019	44.592	0.000	0.000	0.000	0.000	44.592	0.000	15.607	28.985	-43.663
12-2020	41.664	0.000	0.000	0.000	0.000	41.664	0.000	14.582	27.081	-33.577
12-2021	39.064	0.000	0.000	0.000	0.000	39.064	0.000	13.673	25.392	-24.820
12-2022	36.611	0.000	0.000	0.000	0.000	36.611	0.000	12.814	23.797	-17.221
12-2023	34.280	0.000	0.000	0.000	0.000	34.280	0.000	11.998	22.282	-10.634
S TOT	963.730	303.728	0.000	341.863	0.000	318.139	0.000	111.349	206.790	-10.634
AFTER	307.932	0.000	0.000	0.000	0.000	307.932	0.000	107.776	200.156	26.382
TOTAL	1271.662	303.728	0.000	341.863	0.000	626.070	0.000	219.125	406.946	26.382

BTAX RATE OF RETURN (PCT)	10.37	ATAX RATE OF RETURN (PCT)	9.26
BTAX PAYOUT YEARS	8.95	ATAX PAY OUT YEARS	9.06
BTAX PAYOUT YEARS (DISC)	15.18	ATAX PAY OUT YEARS (DISC)	18.33
BTAX NET INCOME/INVEST	1.97	ATAX NET INCOME/INVEST	1.63
BTAX NET INCOME/INVEST (DISC)	1.12	ATAX NET INCOME/INVEST (DISC)	1.05
PRODUCTION START DATE	09/2009	PROJECT LIFE (YEARS)	32.00
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.582
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.692
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	472.841
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	472.841
INITIAL WI (PCT)	92.676	FINAL WI (PCT)	92.676
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	80.216	FINAL NET GAS (PCT)	79.813

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	626.1	406.9	626.1
2.00	410.7	260.9	362.4
5.00	199.9	116.8	148.0
8.00	68.9	26.4	31.6
10.00	8.5	-15.6	-18.2
12.00	-37.3	-47.7	-54.6
15.00	-87.1	-82.6	-92.5
18.00	-121.2	-106.7	-117.5
20.00	-137.9	-118.5	-129.3
25.00	-165.4	-137.8	-147.8
30.00	-179.8	-147.7	-156.4
35.00	-186.3	-151.9	-159.4
40.00	-188.1	-152.7	-159.1
45.00	-186.9	-151.2	-156.7
50.00	-183.9	-148.4	-153.1



ROSA UNIT COM #129D
BLANCO MV / BASIN MC / BASIN DK

Spud: 08/10/09
 Completed: 10/11/09
 1st Delivery: 10/27/09

Surface Location:
 1670' FSL and 2000' FWL
 NE/4 SW/4 Sec 34 (K), T32N, R06W
 Rio Arriba, NM

Bottom Hole Location:
 925' FSL and 2451' FWL
 SE/4 SW/4 Sec 34 (N), T32N, R06W
 Rio Arriba, NM

Elevation: 6361' GR
 API # 30-039-30775

Top	MD Depth	TVD Depth
Pictured Cliffs	3266'	3151'
Lewis	3757'	3641'
Cliffhouse Ss.	5511'	5394'
Point Lookout	5748'	5631'
Mancos	6280'	6163'
Graneros	7879'	7762'
Dakota	8009'	7892'

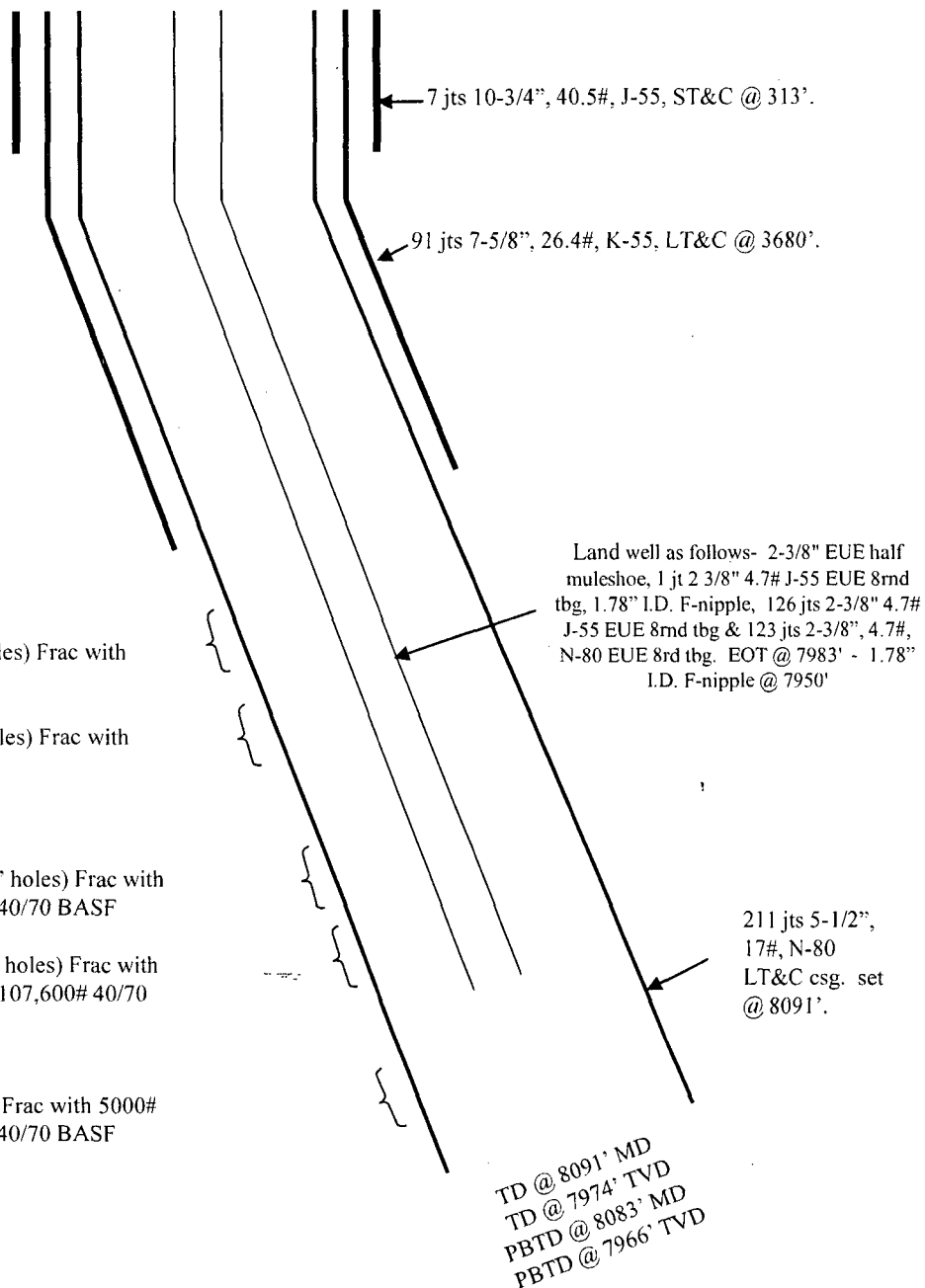
Upper MV: 5480'-5642' (50, 0.34" holes) Frac with
 84,175# 20/40 mesh BASF

Lower MV: 5773'-6080' (57, 0.34" holes) Frac with
 80,405# 20/40 mesh BASF

Upper Mancos: 6978'-7192' (69, 0.34" holes) Frac with
 5100# 100 mesh followed w/111,200# 40/70 BASF

Lower Mancos: 7261'-7372' (60, 0.34" holes) Frac with
 5000# 100 mesh BASF followed with 107,600# 40/70
 BASF

Dakota: 8010'-8088' (54, 0.34" holes) Frac with 5000#
 100 mesh BASF followed w/101,800# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	575 sxs	1414 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	503 cu.ft.	3320' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30775	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT COM	⁹ Well Number 129D

II. ¹⁰ Surface Location

UL or lot no. K	Section 34	Township 32N	Range 6W	Lot Idn	Feet from the 1670	North/South Line SOUTH	Feet from the 2000	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. N	Section 34	Township 32N	Range 6W	Lot Idn	Feet from the 925	North/South line SOUTH	Feet from the 2451	East/West line WEST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD OCT 16 '09

OIL CONS. DIV.
DIST. 3

IV. Well Completion Data Commingled with Mesaverde & Mancos

²¹ Spud Date 8-10-09	²² Ready Date 10-11-09	²³ TD 8091' MD	²⁴ PBD 8083' MD	²⁵ Perforations 8010' - 8088'	²⁶ DHC, MC AZT-3250
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	313'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3680'	575 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8091'	360 sx -3320' (CBL)		
	2.375", 4.7#, J-55 & N-80	7983'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 10-10-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 850 lb
³⁷ Choke Size 1/4"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 305 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			10/21/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles...</i> 10-21-09		
Title: Drig COM			Title: SUPERVISOR DISTRICT #3		
E-mail Address: larry.higgins@williams.com			Approval Date: OCT 21 2009		
Date: 10-12-09	Phone: 505-634-4208		<i>Bum April</i>		

18

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

5 LEASE DESIGNATION AND LEASE NO
NMSF-078772

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

7 UNIT AGREEMENT NAME

Rosa Unit

1a. TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #129D

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

9 API WELL NO.

30-039-30775-0001

3 ADDRESS AND TELEPHONE NO

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface 1670' FSL & 2000' FWL, sec 34, T32N, R6W

At top production interval reported below : 925' FSL & 2451' FWL, sec 34, T32N, R6W

At total depth Same

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA

Sec 34, T32N, R6W

12. COUNTY OR

Rio Arriba

13 STATE

New Mexico

15 DATE

SPUDDED
8-10-09

16 DATE T.D.

REACHED
8-20-09

17. DATE COMPLETED (READY TO PRODUCE)

10-11-09

14 PERMIT NO

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC)*

6361' GR

19. ELEVATION CASINGHEAD

20 TOTAL DEPTH, MD & TVD

8091' MD / 7974' TVD

21 PLUG, BACK T.D., MD & TVD

8083' MD

22 IF MULTICOMP,
HOW MANY

3*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA - 8010' - 8088' MD

25 WAS DIRECTIONAL SURVEY MADE

YES

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40 5#	313'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26 4#	3680'	9-7/8"	575 SX - SURFACE	
5-1/2", N-80	17.0#	8091'	6-3/4"	360 SX - 3220' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4.7#, J-55 & N-80 EUE 8rd	7983'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota Total of 54, 0 34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL
(MD)

8010'-8088'

Fraced with 5000# 100 mesh BASF followed with 101,800# 40/70 mesh BASF

RCVD OCT 21 '09

OIL CONS. DIV.

33 PRODUCTION Commingled with Mesaverde and Mancos per AZT-3250

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-10-09	2 hr	1/4"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	850 lb				305 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY Sergio Boruade

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES,

ACCEPTED FOR RECORD

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

SIGNED

TITLE Drlg COM

DATE 10-12-09

NMOCD

OCT 16 2009

FARMINGTON FIELD OFFICE
BY T. SANCOS

38 GEOLOGIC MARKERS

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 recovery)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3266'	3151'
					LEWIS	3757'	3641'
					CLIFFHOUSE	5511'	5394'
					POINT LOOKOUT	5748'	5631'
					MANCOS	6280'	6163'
					GRANEROS	7879'	7762'
					DAKOTA	8009'	7892'

February 24, 2011

The ROSA Unit #137C DAKOTA Formation Well (commercial) is located 730 feet from the South Line and 2175 feet from the East Line, Section 31 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 25, 2009 and completed in the Dakota formation on May 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7870' to 7963'. This well has a 2.375" tubing string. This well was shut in with a SICP of 1.5 psig. On May 26, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 752 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 9.25% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #137C | 1PDP | DAKOTA | J7PKM9ERSJ | 62246170
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 07/2009	SJ_OP_POST
GAS 425 X M/D 6 MOS B/2.5000 50	SJ_OP_POST
" 204 X M/D 3 IMO FLAT 0	SJ_OP_POST
" X 124 M/D 2 IMO EXP 30	SJ_OP_POST
" 124 295 M/D 3 IMO EXP X	SJ_OP_POST
" X X M/D 10 EXP B/1.5 55	SJ_OP_POST
" X 10 M/D X YRS EXP 10	SJ_OP_POST

Prices

SIDEFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 229.80685 411.01163 M\$G 04/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDEFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22455 RSV CAT: 1PDP
 Well Name: ROSA UNIT #137C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 17:02:16
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit	Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	07/2009										
401 GAS	425.00	X	M/D	6.00 MOS	B/2.5000	50.00	58.712 12/2009	50.0000	12927.	7991.	
402 "	204.00	X	M/D	3.00 IMO	FLAT	0.00	77.326 3/2010		6205.	6205.	
403 "	X	124.00	M/D	2.00 IMO	EXP	30.00	87.102 5/2010	94.9563	6205.	3772.	
404 "	124.00	295.00	M/D	3.00 IMO	EXP	X	105.105 8/2010-3103.3281		3772.	8973.	
405 "	X	X	M/D	10.00 EXP	B/1.5	55.00	307.458 7/2016	55.0000	8973.	1496.	
406 "	X	10.00	M/D	X	YRS	EXP	443.410 9/2031	9.9999	1496.	303.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M				4/2007	
501 "	X	6.627	6.827	6.197	4.987	#/M				8/2007	
502 "	X	4.587	5.117	6.057	6.497	#/M				12/2007	
503 "	01/2008	6.377	7.277	8.087	8.277	#/M				4/2008	
504 "	X	9.427	9.846	11.356	7.637	#/M				8/2008	
505 "	X	6.427	4.267	2.837	4.627	#/M				12/2008	
506 "	01/2009	4.827	3.107	2.687	2.617	#/M				4/2009	
507 "	X	2.497	2.647	2.977	3.177	#/M				8/2009	
508 "	X	2.467	3.417	4.257	4.277	#/M				12/2009	
509 "	01/2010	5.72	5.31	4.66	3.77	#/M				4/2010	
510 "	X	3.87	3.69	4.28	4.08	#/M				8/2010	
511 "	X	3.47	4.126	5.75	5.75	#/M				12/2010	
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00		5.750	5.750
600 ATX	4.69	X	%	TO	LIFE	PC	0.00			9/2031	0.047
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00			9/2031	0.037
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00			9/2031	700.000
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00			9/2031	1.000
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00			9/2031	0.865
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00			9/2031	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit	Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S /92	S/95	X	FRAC	TO	LIFE	DIV	146.00			9/2031	
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00			9/2031	
905 S /89	0.98	X	FRAC	TO	LIFE	MUL	89.00			9/2031	
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00			9/2031	
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00			9/2031	
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00			9/2031	
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00			9/2031	
914 GAS	01/2009	0	0	0	0	11052 14702 10801 9485 2780 #				48.820 10/2009	
915 "	X	1385.04	5800.32	6336	6681.6	6190.08 4586.64 3858.72 #				83.658 5/2010	
916 "	X	5961.3	9157.05	7856.02	6711.75	6772.55 6730.28 #				126.847 11/2010	

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	229.81	411.01 M\$G	04/2009 AD	ESC INV	640.818	4/2009	0	640.8	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.98
 202 WELLS 0.00 1.00
 203 CUMQ, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 22455 RSV CAT: 1PDP
 Well Name: ROSA UNIT #137C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 17:02:16
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		56.005		0.000		38.885		0.00	2.335	1.0	0.000	90.813	90.813
12-2010	0.000		77.209		0.000		66.786		0.00	3.615	1.0	0.000	241.442	241.442
12-2011	0.000		54.268		0.000		46.942		0.00	4.686	1.0	0.000	219.958	219.958
12-2012	0.000		36.021		0.000		31.158		0.00	4.686	1.0	0.000	146.000	146.000
12-2013	0.000		28.094		0.000		24.302		0.00	4.686	1.0	0.000	113.871	113.871
12-2014	0.000		23.468		0.000		20.300		0.00	4.686	1.0	0.000	95.121	95.121
12-2015	0.000		20.376		0.000		17.625		0.00	4.686	1.0	0.000	82.588	82.588
12-2016	0.000		18.133		0.000		15.685		0.00	4.686	1.0	0.000	73.497	73.497
12-2017	0.000		16.311		0.000		14.109		0.00	4.686	1.0	0.000	66.112	66.112
12-2018	0.000		14.680		0.000		12.698		0.00	4.686	1.0	0.000	59.501	59.501
12-2019	0.000		13.212		0.000		11.428		0.00	4.686	1.0	0.000	53.551	53.551
12-2020	0.000		11.891		0.000		10.286		0.00	4.686	1.0	0.000	48.196	48.196
12-2021	0.000		10.702		0.000		9.257		0.00	4.686	1.0	0.000	43.376	43.376
12-2022	0.000		9.632		0.000		8.331		0.00	4.686	1.0	0.000	39.038	39.038
12-2023	0.000		8.668		0.000		7.498		0.00	4.686	1.0	0.000	35.135	35.135
S TOT	0.000		398.672		0.000		335.292		0.00	4.200	1.0	0.000	1408.199	1408.199
AFTER	0.000		43.536		0.000		37.659		0.00	4.686	1.0	0.000	176.460	176.460
TOTAL	0.000		442.209		0.000		372.951		0.00	4.249	1.0	0.000	1584.659	1584.659

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	7.508	4.200	0.000	79.105	229.807	411.012	0.000	640.818	-561.713	-498.606
12-2010	19.961	8.400	0.000	213.081	0.000	0.000	0.000	0.000	213.081	-327.272
12-2011	18.185	8.400	0.000	193.374	0.000	0.000	0.000	0.000	193.374	-183.301
12-2012	12.070	8.400	0.000	125.530	0.000	0.000	0.000	0.000	125.530	-96.765
12-2013	9.414	8.400	0.000	96.057	0.000	0.000	0.000	0.000	96.057	-35.452
12-2014	7.864	8.400	0.000	78.858	0.000	0.000	0.000	0.000	78.858	11.155
12-2015	6.828	8.400	0.000	67.360	0.000	0.000	0.000	0.000	67.360	48.018
12-2016	6.076	8.400	0.000	59.021	0.000	0.000	0.000	0.000	59.021	77.924
12-2017	5.466	8.400	0.000	52.246	0.000	0.000	0.000	0.000	52.246	102.436
12-2018	4.919	8.400	0.000	46.182	0.000	0.000	0.000	0.000	46.182	122.499
12-2019	4.427	8.400	0.000	40.723	0.000	0.000	0.000	0.000	40.723	138.879
12-2020	3.984	8.400	0.000	35.811	0.000	0.000	0.000	0.000	35.811	152.217
12-2021	3.586	8.400	0.000	31.390	0.000	0.000	0.000	0.000	31.390	163.042
12-2022	3.227	8.400	0.000	27.411	0.000	0.000	0.000	0.000	27.411	171.795
12-2023	2.905	8.400	0.000	23.830	0.000	0.000	0.000	0.000	23.830	178.840
S TOT	116.420	121.800	0.000	1169.979	229.807	411.012	0.000	640.818	529.160	178.840
AFTER	14.588	65.100	0.000	96.771	0.000	0.000	0.000	0.000	96.771	200.942
TOTAL	131.009	186.900	0.000	1266.750	229.807	411.012	0.000	640.818	625.932	200.942

PropID: 22455 RSV CAT: 1PDP
 Well Name: ROSA UNIT #137C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 17:02:16
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

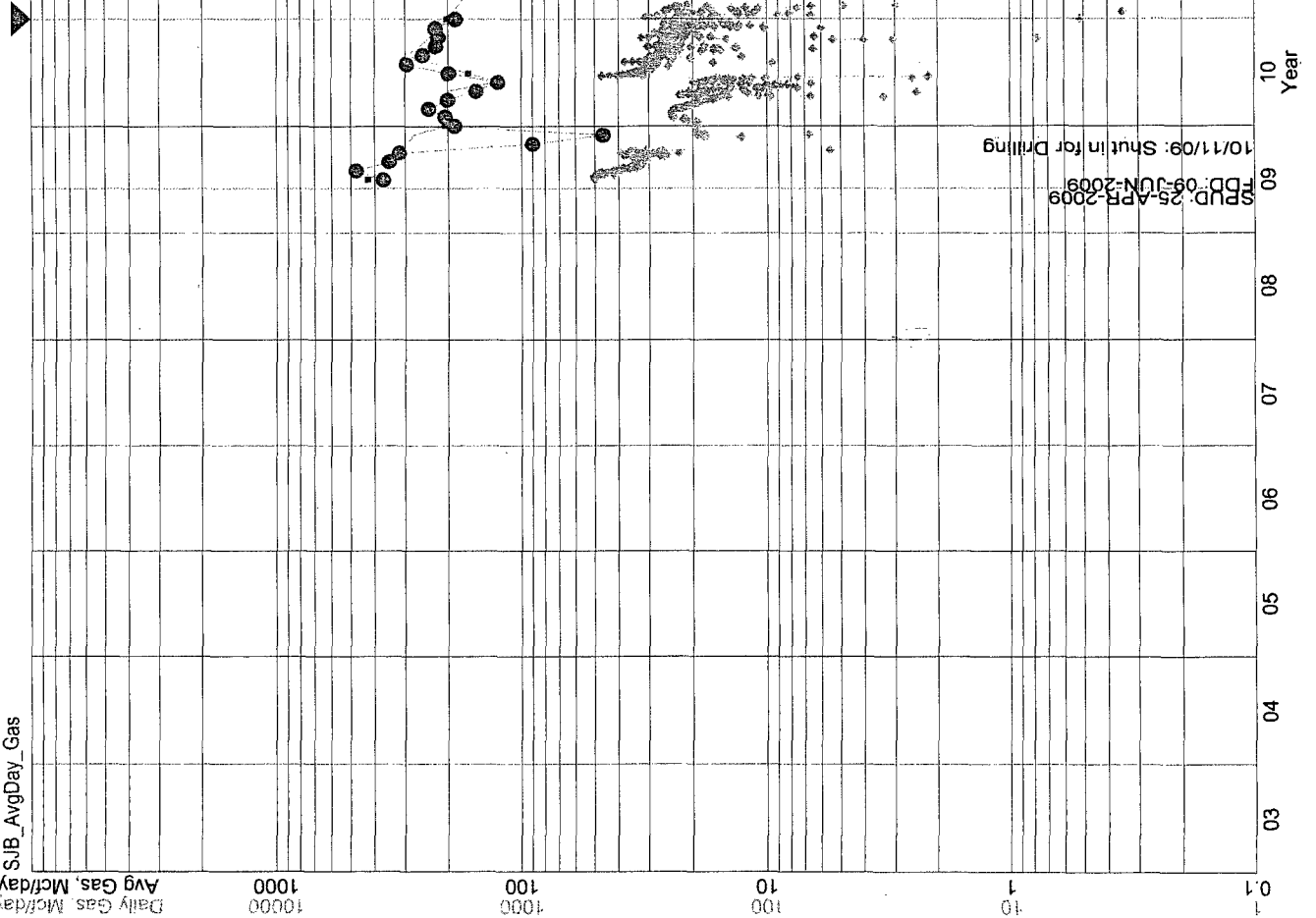
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	79.105	51.599	0.000	411.012	0.000	-383.505	0.000	-134.227	-427.486	-382.042
12-2010	213.081	50.918	0.000	0.000	0.000	162.164	0.000	56.757	156.324	-256.346
12-2011	193.374	36.363	0.000	0.000	0.000	157.011	0.000	54.954	138.420	-153.289
12-2012	125.530	25.976	0.000	0.000	0.000	99.554	0.000	34.844	90.686	-90.773
12-2013	96.057	20.514	0.000	0.000	0.000	75.543	0.000	26.440	69.617	-46.336
12-2014	78.858	20.506	0.000	0.000	0.000	58.351	0.000	20.423	58.435	-11.800
12-2015	67.360	20.514	0.000	0.000	0.000	46.846	0.000	16.396	50.964	16.090
12-2016	59.021	3.416	0.000	0.000	0.000	55.604	0.000	19.461	39.559	36.134
12-2017	52.246	0.000	0.000	0.000	0.000	52.246	0.000	18.286	33.960	52.068
12-2018	46.182	0.000	0.000	0.000	0.000	46.182	0.000	16.164	30.018	65.108
12-2019	40.723	0.000	0.000	0.000	0.000	40.723	0.000	14.253	26.470	75.755
12-2020	35.811	0.000	0.000	0.000	0.000	35.811	0.000	12.534	23.277	84.425
12-2021	31.390	0.000	0.000	0.000	0.000	31.390	0.000	10.987	20.404	91.461
12-2022	27.411	0.000	0.000	0.000	0.000	27.411	0.000	9.594	17.817	97.150
12-2023	23.830	0.000	0.000	0.000	0.000	23.830	0.000	8.340	15.489	101.730
S TOT	1169.979	229.807	0.000	411.012	0.000	529.161	0.000	185.206	343.954	101.730
AFTER	96.771	0.000	0.000	0.000	0.000	96.771	0.000	33.870	62.901	116.096
TOTAL	1266.750	229.807	0.000	411.012	0.000	625.932	0.000	219.076	406.856	116.096

BTAX RATE OF RETURN (PCT)	17.39	ATAx RATE OF RETURN (PCT)	15.11	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	5.64	ATAx PAY OUT YEARS	5.94	---- RATE-OF-RETURN VS. BONUS TABLE ---			
BTAX PAYOUT YEARS (DISC)	7.09	ATAx PAY OUT YEARS (DISC)	7.76	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	1.98	ATAx NET INCOME/INVEST	1.63	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST(DISC)	1.35	ATAx NET INCOME/INVEST(DISC)	1.20	%-----	M\$-----	M\$-----	M\$-----
PRODUCTION START DATE	07/2009	PROJECT LIFE (YEARS)	24.08	0.00	625.9	406.9	625.9
		DISCOUNT - RATE (PCT)	8.00	2.00	479.7	307.3	441.1
				5.00	317.0	196.0	261.6
				8.00	200.9	116.1	147.4
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.585	10.00	141.5	75.0	92.8
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.686	12.00	92.8	41.3	50.0
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.	15.00	35.1	1.1	1.3
				18.00	-8.9	-29.6	-34.2
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-11.052	20.00	-32.5	-46.0	-52.7
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	442.209	25.00	-76.7	-76.9	-86.1
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	431.157	30.00	-106.2	-97.5	-107.3
				35.00	-125.9	-111.2	-120.8
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000	40.00	-139.0	-120.2	-129.2
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000	45.00	-147.5	-125.9	-134.2
INITIAL NET GAS (PCT)	115.067	FINAL NET GAS (PCT)	86.500	50.00	-152.7	-129.2	-136.9

SJB_AvgDay_Gas

Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	194.641
Qref	201.539
Qab	10.000
"b"	1.500000
De	42.707097
Dmin	10.000
Yrs	20.745
Rem	308831
Cum	132607
EUR	441438



ROSA UNIT #137C
BLANCO MV/BASIN MANCOS/BASIN DK

Location: 730' FSL & 2175' FEL
 SW/4 SE/4 Section 31 (O), T31N, R05W
 Rio Arriba Co, NM

Elevation: 6448' GR
API #: 30-039-30691

Spud Date 4-25-09
 Completed 5-28-09
 1st Delivered 00-00-00 MV
 00-00-00 MC
 00-00-00 DK

<u>Tops</u>	<u>Depth</u>
Kirtland	2642'
Pictured Cliffs	3233'
Cliff House	5380'
Menefee	5430'
Point Lookout	5636'
Mancos	6148'
Dakota	7869'

8 jts of 10 3/4", 40.5#, J-55, ST&C csg Set @ 360'

94 jts of 7-5/8", 26.4#, J-55, LT&C csg. Set @ 3730'

RCVD JUN 1 '09

OIL CONS. DIV.
 DIST. 3

Dakota only completed at this time Mancos and Mesa Verde will be completed at a later date.

Dakota 7870'-7963' (81, 0 3/4" holes) Frac w/ 7089# 100 mesh BASF followed with 82250# 40/70 mesh BASF

Dakota Tubing: 245 jts 2-3/8", 4 7#, J-55, EUE 8rd thg landed @ 7959' as follows: 1/2" mule shoe pup jt, 1.78" SN @ 7925', 243 jts, 4', 6' & 8' pup jts & 1 jt thg

7870'

7963'

197 jts of 5-1/2", 17#, N-80, LT&C csg Set @ 7981'.

TD @ 7982'
 PBTD @ 7974'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	290 sxs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	690 sxs	1714 cu.ft.	surface
6 3/4"	5 1/2", 17#	325 sxs	454 cu.ft.	3780' - CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30691	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 137C

II. ¹⁰ Surface Location

UL or lot no. O	Section 31	Township 31N	Range 5W	Lot.1dn	Feet from the 730	North/South Line SOUTH	Feet from the 2175	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD JUN 1 '09

IV. Well Completion Data

NOTE: Mesaverde to be completed at a later date

OIL CONS. DIV.

²¹ Spud Date 4-25-09	²² Ready Date 5-28-09	²³ TD 7982' MD	²⁴ PBTB 7974' MD	²⁵ Perforations 7870' - 7963'	²⁶ DHC, MC AZT-
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	360'	DIST 3 290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	3730'	690 sx - surface		
6-3/4"	5 1/2", 17#, N-80	7981'	325 sx - 3780' (CBL)		
	2.375", 4.7#, J-55	7959'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 5-26-09	³⁴ Test Length 1.0 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1.5 lb
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 752 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			6/3/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>[Signature]</i>		
Title: Drig COM			Title: DEPUTY OIL & GAS INSPECTOR, DIST 4		
E-mail Address: larry.higgins@williams.com			Approval Date: JUN 16 2009		
Date: 5-29-09			Phone: 505-634-4208		

Perm approval

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

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*

1a. TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER				7 UNIT AGREEMENT NAME Rosa Unit	
b. TYPE OF COMPLETION ☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER				8 FARM OR LEASE NAME, WELL NO Rosa Unit #137C	
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY				9 API WELL NO 30-039-30691	
3 ADDRESS AND TELEPHONE NO. P O. Box 640, Aztec, NM 87410 (505) 634-4208				10 FIELD AND POOL, OR WILDCAT Basin Dakota	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface: 730' FSL & 2175' FEL, sec 31, T31N, R5W At top production interval reported below: Same At total depth: Same				11 SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 31, T31N, R5W	
15 DATE SPUDDED 4-25-09		16 DATE T.D. REACHED 5-4-09		17 DATE COMPLETED (READY TO PRODUCE) 5-28-09	
18 ELEVATIONS (DK, RKB, RT, GR, ETC)* 6448' GR		19 ELEVATION CASINGHEAD		20 TOTAL DEPTH, MD & TVD 7982'	
21 PLUG BACK T.D., MD & TVD 7974' MD		22 IF MULTICOMP, HOW MANY 3*		23 INTERVALS DRILLED BY	
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA 7870' - 7963' MD * Mcsaverdand Mancos to be completed at later date				25 WAS DIRECTIONAL SURVEY MADE No	
26 TYPE ELECTRIC AND OTHER LOGS RUN Aray Induction, Gamma Ray-Density-Neutron, Temperature and CBL				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
10-3/4", J-55	40.5#	360'	14-3/4"	290 SX - SURFACE	
7-5/8", J-55	26.4#	3730'	9-7/8"	690 SX - SURFACE	
5-1/2", N-80	17.0#	7981'	6-3/4"	325 SX - 3780' (CBL)	

29 LINER RECORD				30 TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.875", 6.5#, J-55, EUE 8rd	7959'	none

31 PERFORATION RECORD (Interval, size, and number)				32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC			
Dakota 7870' - 7963' Total of 81, 0 34" holes				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				7870' - 7963'	Fraced with 7089# 100 mesh BASF followed w/82,250# 40/70 mesh BASF		

RCVD JUN 3 '09
OIL CONS. DIV.

33 PRODUCTION				DIST. 3			
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)			WELL STATUS (PRODUCING OR SI)		
					SI - waiting on tie-in		
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
5-26-09	1.0 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	1.5 lb				752 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD TEST WELLS SHOWN IN PRODUCTION RECORD

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED

Carry Haggard

TITLE Drig COM

DATE 5-29-09

NMOCD

JUN 02 2009

FARMINGTON FIELD OFFICE

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cased 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3233'	
					LEWIS	3527'	
					CLIFFHOUSE	5380'	
					MENEFEE	5430'	
					POINT LOOKOUT	5636'	
					MANCOS	6148'	
					DAKOTA	7869'	

February 24, 2011

The ROSA Unit #145D DAKOTA Formation Well (commercial) is located 610 feet from the North Line and 610 feet from the East Line, Section 16 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on September 17, 2009 and completed in the Dakota formation on November 5, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8098' to 8235'. This well has a 2.375" tubing string. This well was shut in with a SICP of 580 psig. On November 5, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 834 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 36.18% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #145D | 1PDP | DAKOTA | JAL9BJITYT | 62262239
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 88 205 M/D 2 MOS EXP X	SJ_OP_POST
" 205 X M/D 4 MOS EXP 60	SJ_OP_POST
" X 68 M/D 5 EXP B/1.5 65	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 304.39264 354.66895 M\$G 09/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #145D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 16:58:36
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	12/2009										
401 GAS	88.00	205.00	M/D	2.00	MOS	EXP	X	8.416	1/2010*****	2677.	6235.
402 "	205.00	X	M/D	4.00	MOS	EXP	60.00	19.982	3/2010 60.0000	6235.	5352.
403 "	X	68.00	M/D	5.00	EXP	B/1.5	65.00	725.509	12/2022 65.0000	28006.	2068.
404 "	X	X	M/D	30.00	YRS	EXP	5.00	1006.204	11/2039 5.0000	2068.	869.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010		
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	11/2039	5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	11/2039	0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	11/2039	0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	11/2039	700.000	700.000
705 LSE/WI		0.9602	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.960	0.960
720 NET/OIL		0.8222	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.822	0.822
740 NET/GAS		0.8222	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.822	0.822
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		11/2039		
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		11/2039		
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00		11/2039		
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		11/2039		
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		11/2039		
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		11/2039		
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		11/2039		
914 GAS	01/2009	0	0	0	0	0	0	2664.24	5274.72	6349.44	#
915 "	X	5743.2	6360.96	5865.84	4620.24	3067.23	2303.56	#			
916 "	X	2106.02	1702.12	2516.22	2063.6	#			50.637	11/2010	

INVESTMENTS	Tangible	Intang	Units	Invest.	Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	304.39	354.67	MSG	09/2009	AD	ESC INV	659.062	9/2009	0	659.0	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #145D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:58:36
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000	0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		7.939	0.000		4.337		0.00	3.417	1.0	0.000	14.818	14.818
12-2010		0.000		54.383	0.000		44.715		0.00	3.908	1.0	0.000	174.757	174.757
12-2011		0.000		106.502	0.000		87.568		0.00	4.776	1.0	0.000	418.250	418.250
12-2012		0.000		74.875	0.000		61.564		0.00	4.776	1.0	0.000	294.048	294.048
12-2013		0.000		59.661	0.000		49.054		0.00	4.776	1.0	0.000	234.299	234.299
12-2014		0.000		50.406	0.000		41.445		0.00	4.776	1.0	0.000	197.952	197.952
12-2015		0.000		44.074	0.000		36.238		0.00	4.776	1.0	0.000	173.086	173.086
12-2016		0.000		39.420	0.000		32.412		0.00	4.776	1.0	0.000	154.809	154.809
12-2017		0.000		35.829	0.000		29.459		0.00	4.776	1.0	0.000	140.706	140.706
12-2018		0.000		32.958	0.000		27.099		0.00	4.776	1.0	0.000	129.433	129.433
12-2019		0.000		30.602	0.000		25.161		0.00	4.776	1.0	0.000	120.178	120.178
12-2020		0.000		28.626	0.000		23.537		0.00	4.776	1.0	0.000	112.419	112.419
12-2021		0.000		26.941	0.000		22.152		0.00	4.776	1.0	0.000	105.803	105.803
12-2022		0.000		25.484	0.000		20.954		0.00	4.776	1.0	0.000	100.082	100.082
12-2023		0.000		24.194	0.000		19.893		0.00	4.776	1.0	0.000	95.015	95.015
S TOT		0.000		641.895	0.000		525.587		0.00	4.691	1.0	0.000	2465.656	2465.656
AFTER		0.000		256.501	0.000		210.900		0.00	4.776	1.0	0.000	1007.325	1007.325
TOTAL		0.000		898.396	0.000		736.487		0.00	4.716	1.0	0.000	3472.980	3472.980

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.225	0.672	0.000	12.920	292.264	340.538	0.000	632.802	-619.881	-531.305
12-2010	14.448	8.065	0.000	152.244	0.000	0.000	0.000	0.000	152.244	-408.889
12-2011	34.578	8.065	0.000	375.607	0.000	0.000	0.000	0.000	375.607	-129.242
12-2012	24.310	8.065	0.000	261.673	0.000	0.000	0.000	0.000	261.673	51.147
12-2013	19.370	8.065	0.000	206.864	0.000	0.000	0.000	0.000	206.864	183.189
12-2014	16.365	8.065	0.000	173.522	0.000	0.000	0.000	0.000	173.522	285.744
12-2015	14.310	8.065	0.000	150.711	0.000	0.000	0.000	0.000	150.711	368.220
12-2016	12.799	8.065	0.000	133.945	0.000	0.000	0.000	0.000	133.945	436.091
12-2017	11.633	8.065	0.000	121.008	0.000	0.000	0.000	0.000	121.008	492.864
12-2018	10.701	8.065	0.000	110.667	0.000	0.000	0.000	0.000	110.667	540.940
12-2019	9.936	8.065	0.000	102.177	0.000	0.000	0.000	0.000	102.177	582.040
12-2020	9.294	8.065	0.000	95.060	0.000	0.000	0.000	0.000	95.060	617.445
12-2021	8.747	8.065	0.000	88.991	0.000	0.000	0.000	0.000	88.991	648.134
12-2022	8.274	8.065	0.000	83.743	0.000	0.000	0.000	0.000	83.743	674.874
12-2023	7.855	8.065	0.000	79.094	0.000	0.000	0.000	0.000	79.094	698.259
S TOT	203.843	113.586	0.000	2148.226	292.264	340.538	0.000	632.802	1515.424	698.259
AFTER	83.279	128.373	0.000	795.674	0.000	0.000	0.000	0.000	795.674	841.071
TOTAL	287.122	241.959	0.000	2943.899	292.264	340.538	0.000	632.802	2311.097	841.071

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #145D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:58:36
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

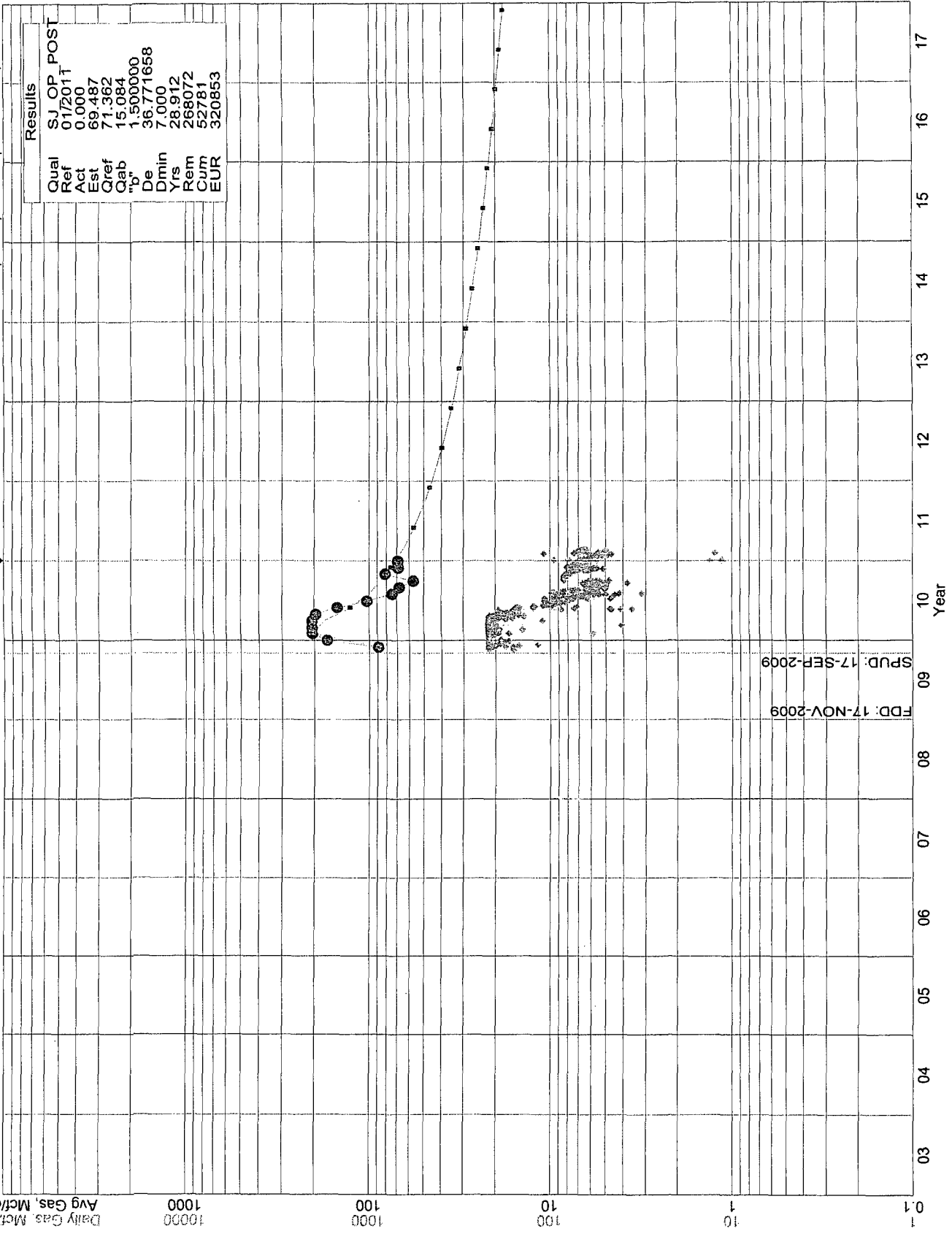
--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	12.920	4.641	0.000	340.538	0.000	-332.258	0.000	-116.290	-503.591	-430.318
12-2010	152.244	60.983	0.000	0.000	0.000	91.262	0.000	31.942	120.303	-333.585
12-2011	375.607	64.756	0.000	0.000	0.000	310.851	0.000	108.798	266.809	-134.941
12-2012	261.673	46.246	0.000	0.000	0.000	215.427	0.000	75.399	186.273	-6.530
12-2013	206.864	33.036	0.000	0.000	0.000	173.828	0.000	60.840	146.024	86.678
12-2014	173.522	26.089	0.000	0.000	0.000	147.432	0.000	51.601	121.920	158.736
12-2015	150.711	26.080	0.000	0.000	0.000	124.631	0.000	43.621	107.090	217.340
12-2016	133.945	26.089	0.000	0.000	0.000	107.856	0.000	37.749	96.196	266.083
12-2017	121.008	4.345	0.000	0.000	0.000	116.663	0.000	40.832	80.176	303.700
12-2018	110.667	0.000	0.000	0.000	0.000	110.667	0.000	38.733	71.934	334.949
12-2019	102.177	0.000	0.000	0.000	0.000	102.177	0.000	35.762	66.415	361.664
12-2020	95.060	0.000	0.000	0.000	0.000	95.060	0.000	33.271	61.789	384.677
12-2021	88.991	0.000	0.000	0.000	0.000	88.991	0.000	31.147	57.844	404.625
12-2022	83.743	0.000	0.000	0.000	0.000	83.743	0.000	29.310	54.433	422.006
12-2023	79.094	0.000	0.000	0.000	0.000	79.094	0.000	27.683	51.411	437.206
S TOT	2148.226	292.264	0.000	340.538	0.000	1515.424	0.000	530.398	985.026	437.206
AFTER	795.674	0.000	0.000	0.000	0.000	795.674	0.000	278.486	517.188	530.034
TOTAL	2943.899	292.264	0.000	340.538	0.000	2311.097	0.000	808.884	1502.214	530.034

BTAX RATE OF RETURN (PCT)	36.18	ATAW RATE OF RETURN (PCT)	31.42
BTAX PAYOUT YEARS	4.69	ATAW PAY OUT YEARS	4.96
BTAX PAYOUT YEARS (DISC)	5.05	ATAW PAY OUT YEARS (DISC)	5.40
BTAX NET INCOME/INVEST	4.65	ATAW NET INCOME/INVEST	3.37
BTAX NET INCOME/INVEST(DISC)	2.55	ATAW NET INCOME/INVEST(DISC)	1.98
PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	32.25
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.246
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.776
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-2.664
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	898.396
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	895.732
INITIAL WI (PCT)	96.016	FINAL WI (PCT)	96.016
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	162.785	FINAL NET GAS (PCT)	82.222

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	2311.1	1502.2	2311.1
2.00	1748.8	1131.3	1568.6
5.00	1193.7	764.0	964.6
8.00	841.1	530.0	632.7
10.00	673.9	418.9	487.3
12.00	543.2	331.9	378.4
15.00	394.9	233.3	259.9
18.00	286.3	161.2	176.5
20.00	229.5	123.5	134.0
25.00	124.7	54.2	57.8
30.00	55.2	8.7	9.2
35.00	7.8	-21.9	-22.9
40.00	-25.1	-42.8	-44.3
45.00	-48.2	-57.0	-58.8
50.00	-64.4	-66.7	-68.5



SJB_AvgDay_Gas



Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	69.487
Qref	71.362
Qlab	15.084
b ₀	1.500000
De	36.771658
Dmin	7.000
Yrs	28.912
Rem	268072
Cum	52781
EUR	320853

ROSA UNIT #145D
BLANCO MV / BASIN MC / BASIN DK

Spud: 09/17/09

Completed: 11/05/09

1st Delivery: 11/17/09

Surface Location:

610' FNL and 610' FEL
 NE/4 NE/4 Sec 16 (A), T31N, R06W
 San Juan, NM

Bottom Hole Location:

1768' FNL and 392' FEL
 SE/4 NE/4 Sec 16 (H), T31N, R06W
 San Juan, NM

Elevation: 6324' GR

API # 30-045-35002

Top	MD Depth	TVD Depth
Lewis	3701'	3454'
Cliffhouse Ss.	5579'	5331'
Point Lookout	5881'	5633'
Mancos	6351'	6103'
Graneros	7969'	7721'
Dakota	8096'	7848'

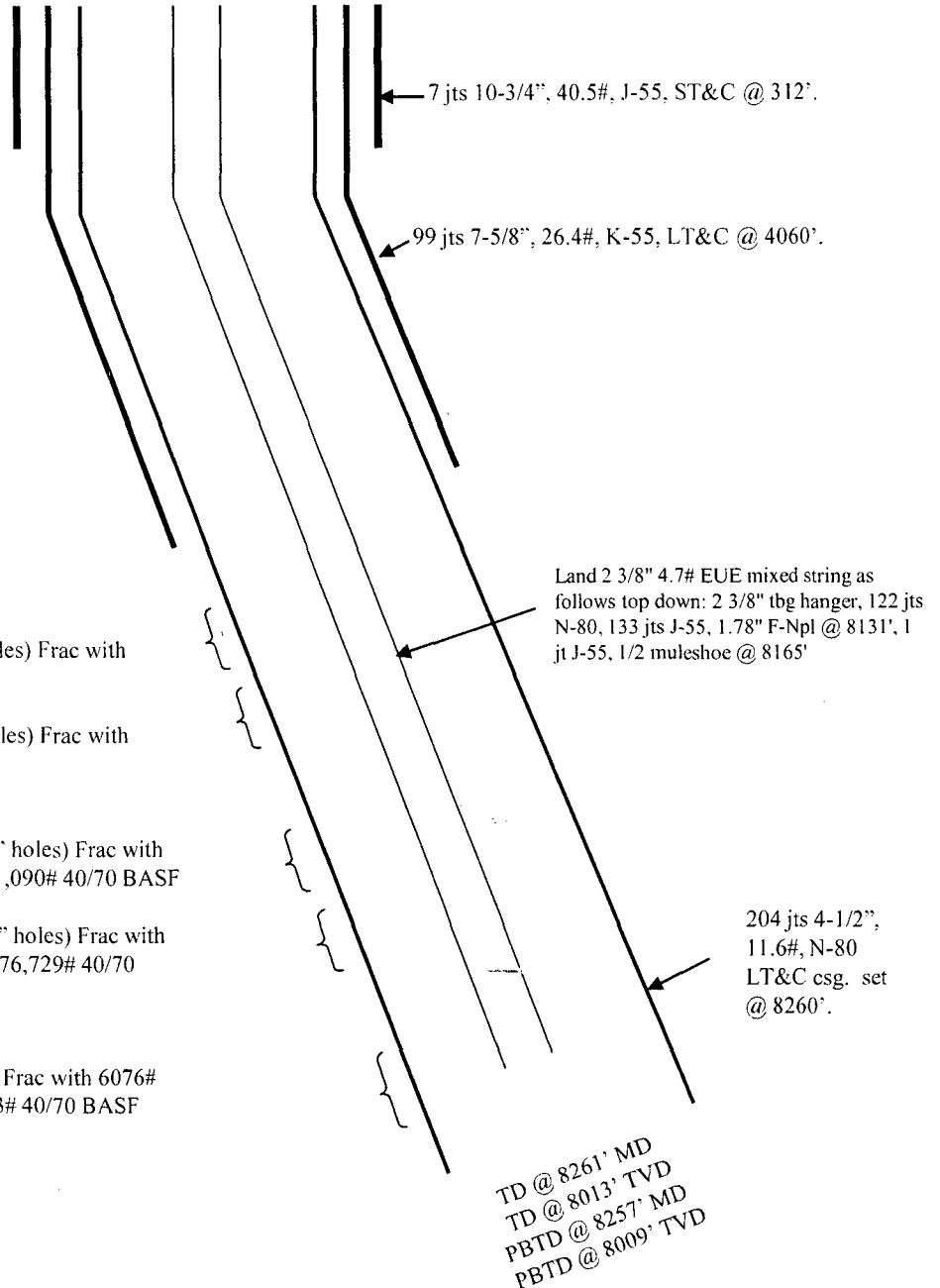
Upper MV: 5590'-5822' (55, 0.34" holes) Frac with
 80,700# 20/40 mesh BASF

Lower MV: 5854'-6174' (48, 0.34" holes) Frac with
 79,500# 20/40 mesh BASF

Upper Mancos: 6990'-7230' (75, 0.34" holes) Frac with
 4925# 100 mesh BASF followed w/101,090# 40/70 BASF

Lower Mancos: 7334'-7486' (66, 0.34" holes) Frac with
 5049# 100 mesh BASF followed with 76,729# 40/70
 BASF

Dakota: 8098'-8235' (69, 0.34" holes) Frac with 6076#
 100 mesh BASF followed with 120,743# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cnt
14-3/4"	10-3/4", 40.5#	290 sxs	522 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	625 sxs	1551 cu.ft.	Surface
6-3/4"	4-1/2", 11.6#	570 sxs	798cu.ft.	4010' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-35002	⁵ Pool Name BASIN DAKOTA (NSL-6103)	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 145D

II. ¹⁰ Surface Location

UL or lot no. A	Section 16	Township 31N	Range 6W	Lot.Idn	Feet from the 610	North/South Line NORTH	Feet from the 610	East/West line EAST	County SAN JUAN

¹¹ Bottom Hole Location

UL or lot no. H	Section 16	Township 31N	Range 6W	Lot Idn	Feet from the 1768	North/South line NORTH	Feet from the 392	East/West line EAST	County SAN JUAN
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCV NOV 6 '09

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

OIL CONSV. DIV.
DIST. 3

²¹ Spud Date 9-17-09	²² Ready Date 11-5-09	²³ TD 8261' MD	²⁴ PBD 8257' MD	²⁵ Perforations 8098' - 8235'	²⁶ DHC, MC AZT-3278
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	312'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4060'	625 sx - surface		
6-3/4"	4 1/4", 11.6#, N-80	8260'	570 sx - 4010' (CBL)		
	2.375", 4.7#, J-55 & N-80	8165'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-5-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 580 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 834 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			11-13-09 OIL CONSERVATION DIVISION Approved by: <i>Charles L. ...</i> 11-13-09		
Printed name: Larry Higgins			Title: SUPERVISOR DISTRICT # 3		
Title: Drig COM			Approval Date: NOV 13 2009		
E-mail Address: larry.higgins@williams.com					
Date: 11-6-09	Phone: 505-634-4208		<i>Bum april</i>		

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078766

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #145D

9. API WELL NO:

30-045-35002 - 0001

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA

Sec 16, T31N, R6W

12. COUNTY OR

San Juan

13. STATE

New Mexico

19. ELEVATION CASINGHEAD

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 610' FNL & 610' FEL, sec 16, T31N, R6W

At top production interval reported below: 1768' FNL & 392' FEL, sec 16, T31N, R6W

At total depth: Same

14. PERMIT NO.

DATE ISSUED

15. DATE
SPUDDED
9-17-09

16. DATE T.D.
REACHED
9-29-09

17. DATE COMPLETED (READY TO PRODUCE)
11-5-09

18. ELEVATIONS (DK. RKB, RT, GR, ETC.)*
6324' GR

20. TOTAL DEPTH, MD & TVD
8261' MD / 8013' TVD

21. PLUG, BACK T.D., MD & TVD
8257' MD / 8009' TVD

22. IF MULTICOMP.,
HOW MANY
3 *

23. INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 8098'-8235' MD

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Ultra Sonic Gas Detector and CBL

25. WAS DIRECTIONAL SURVEY MADE

YES

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
10-3/4", J-55	40.5#	312'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	4060'	9-7/8"	625 SX - SURFACE	
4-1/2", N-80	11.6#	8260'	6-3/4"	570 SX - 4010' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8165'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 69, 0.34" holes

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

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

8098'-8235'

Faced with 6076# 100 mesh BASF followed with 120,743# 40/70 mesh BASF

33. PRODUCTION

Commingled with MV and MC per AZT-3278 NSL-6013

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKER SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
11-5-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	580 lb				834 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Craig Ward

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

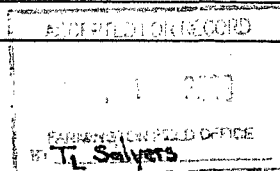
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Drlg COM

DATE 11-6-09

OPERATOR



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	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						LEWIS	3701'	3454'
						CLIFFHOUSE	5579'	5331'
						POINT LOOKOUT	5881'	5633'
						MANCOS	6351'	6103'
						GRANEROS	7969'	7721'
						DAKOTA	8096'	7848'

February 24, 2011

The ROSA Unit #162C DAKOTA Formation Well (commercial) is located 935 feet from the South Line and 2200 feet from the East Line, Section 30 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 8, 2009 and completed in the Dakota formation on July 13, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7922' to 8019'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On June 11, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 869 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 11.81% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #162C | 1PDP | DAKOTA | JBEKHF831D | 62258161
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 07/2009	SJ_OP_POST
GAS 350 X M/D 11 MOS B/2 60	SJ_OP_POST
" 143 4.28 M/D 2 IMO EXP X	SJ_OP_POST
" 4.28 463 M/D 2 IMO EXP X	SJ_OP_POST
" 169 X M/D 5 EXP B/1.8 45	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 230.89671 418.28056 M\$G 04/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #162C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 15:42:13
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA				
	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.		Init.Deff	Init. Rate	Final Rate
400 START	07/2009											
401 GAS	350.00	X	M/D	11.00	MOS	B/2	60.00	68.664	5/2010	60.0000	10646.	4416.
402 "	143.00		4.28 M/D	2.00	IMO	EXP	X	71.069	7/2010	100.0000	4350.	130.
403 "	4.28	463.00	M/D	2.00	IMO	EXP	X	77.027	9/2010*****		130.	14083.
404 "	169.00	X	M/D	5.00	EXP	B/1.8	45.00	282.897	1/2021	45.0000	5140.	948.
405 "	X	X	M/D	30.00	YRS	EXP	5.00	418.414	6/2039	5.0000	948.	369.

500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010			
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	6/2039		5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	6/2039		0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	6/2039		0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	6/2039		700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00	6/2039		1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	6/2039		0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	6/2039		0.865	0.865

OVERLAYS	Beginning, Ending Rates						Schedule Limit		Method & Value		Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00				6/2039				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00				6/2039				
905 S /89	1.02	X	FRAC	TO	LIFE	MUL	89.00				6/2039				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00				6/2039				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00				6/2039				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00				6/2039				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00				6/2039				
914 GAS	01/2009	0	0	0	0	5077.18	10587.94	9864.8	6339.21	#	31.869	10/2009			
915 "	X	7386.84	5234.3	5442.72	4609.04	5907.84	4556.34	#			65.006	4/2010			
916 "	X	4453.66	2314.04	132.57	3261.39	13900.08	5249.52	#			94.317	10/2010			
917 "	X	4650	#								98.967	11/2010			

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	230.90	418.28 MSG	04/2009 AD	ESC	INV	649.177	4/2009	0	649.1	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.02				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date	: 09/2007	Time Frames	: 4*1,99*12,8		
P.W. Date	: 09/2007	Primary PW	: 8.0	Discount Freq.	: MID
Report Date	: 09/2007				
Qualifiers	: Prod = SJ_OP_POST	Price = SJ_OP_POST	Cost = SJ_OP_POST	Owner = BASE	
	Title = BASE	Misc = BASE	Invest = SJ_OP_POST	Overlay = SJ_OP_POST	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #162C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:42:13
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		44.490		0.000		38.484		0.00	2.610	1.0	0.000	100.459	100.459
12-2010	0.000		58.739		0.000		50.809		0.00	3.652	1.0	0.000	185.565	185.565
12-2011	0.000		38.402		0.000		33.218		0.00	4.882	1.0	0.000	162.175	162.175
12-2012	0.000		27.336		0.000		23.645		0.00	4.882	1.0	0.000	115.440	115.440
12-2013	0.000		22.231		0.000		19.230		0.00	4.882	1.0	0.000	93.881	93.881
12-2014	0.000		19.139		0.000		16.555		0.00	4.882	1.0	0.000	80.824	80.824
12-2015	0.000		17.014		0.000		14.717		0.00	4.882	1.0	0.000	71.853	71.853
12-2016	0.000		15.442		0.000		13.358		0.00	4.882	1.0	0.000	65.213	65.213
12-2017	0.000		14.220		0.000		12.300		0.00	4.882	1.0	0.000	60.050	60.050
12-2018	0.000		13.235		0.000		11.448		0.00	4.882	1.0	0.000	55.891	55.891
12-2019	0.000		12.420		0.000		10.743		0.00	4.882	1.0	0.000	52.450	52.450
12-2020	0.000		11.732		0.000		10.148		0.00	4.882	1.0	0.000	49.544	49.544
12-2021	0.000		11.134		0.000		9.631		0.00	4.882	1.0	0.000	47.019	47.019
12-2022	0.000		10.577		0.000		9.149		0.00	4.882	1.0	0.000	44.668	44.668
12-2023	0.000		10.048		0.000		8.692		0.00	4.882	1.0	0.000	42.435	42.435
S TOT	0.000		326.158		0.000		282.127		0.00	4.351	1.0	0.000	1227.467	1227.467
AFTER	0.000		104.707		0.000		90.572		0.00	4.882	1.0	0.000	442.183	442.183
TOTAL	0.000		430.865		0.000		372.698		0.00	4.480	1.0	0.000	1669.650	1669.650

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	8.305	4.200	0.000	87.953	230.897	418.281	0.000	649.177	-561.224	-498.322	
12-2010	15.341	8.400	0.000	161.824	0.000	0.000	0.000	0.000	161.824	-368.203	
12-2011	13.407	8.400	0.000	140.367	0.000	0.000	0.000	0.000	140.367	-263.697	
12-2012	9.544	8.400	0.000	97.497	0.000	0.000	0.000	0.000	97.497	-196.486	
12-2013	7.761	8.400	0.000	77.720	0.000	0.000	0.000	0.000	77.720	-146.877	
12-2014	6.682	8.400	0.000	65.742	0.000	0.000	0.000	0.000	65.742	-108.022	
12-2015	5.940	8.400	0.000	57.513	0.000	0.000	0.000	0.000	57.513	-76.548	
12-2016	5.391	8.400	0.000	51.422	0.000	0.000	0.000	0.000	51.422	-50.493	
12-2017	4.965	8.400	0.000	46.686	0.000	0.000	0.000	0.000	46.686	-28.589	
12-2018	4.621	8.400	0.000	42.870	0.000	0.000	0.000	0.000	42.870	-9.965	
12-2019	4.336	8.400	0.000	39.714	0.000	0.000	0.000	0.000	39.714	6.009	
12-2020	4.096	8.400	0.000	37.048	0.000	0.000	0.000	0.000	37.048	19.808	
12-2021	3.887	8.400	0.000	34.732	0.000	0.000	0.000	0.000	34.732	31.785	
12-2022	3.693	8.400	0.000	32.575	0.000	0.000	0.000	0.000	32.575	42.187	
12-2023	3.508	8.400	0.000	30.526	0.000	0.000	0.000	0.000	30.526	51.212	
S TOT	101.478	121.800	0.000	1004.188	230.897	418.281	0.000	649.177	355.011	51.212	
AFTER	36.557	130.200	0.000	275.427	0.000	0.000	0.000	0.000	275.427	102.169	
TOTAL	138.035	252.000	0.000	1279.615	230.897	418.281	0.000	649.177	630.438	102.169	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #162C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:42:13
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW			EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	87.953	51.844	0.000	418.281	0.000	-382.171	0.000	-133.760	-427.464	-382.164
12-2010	161.824	51.159	0.000	0.000	0.000	110.665	0.000	38.733	123.091	-283.189
12-2011	140.367	36.536	0.000	0.000	0.000	103.832	0.000	36.341	104.026	-205.740
12-2012	97.497	26.099	0.000	0.000	0.000	71.398	0.000	24.989	72.507	-155.755
12-2013	77.720	20.611	0.000	0.000	0.000	57.108	0.000	19.988	57.732	-118.905
12-2014	65.742	20.604	0.000	0.000	0.000	45.138	0.000	15.798	49.943	-89.387
12-2015	57.513	20.611	0.000	0.000	0.000	36.901	0.000	12.915	44.597	-64.981
12-2016	51.422	3.433	0.000	0.000	0.000	47.989	0.000	16.796	34.626	-47.436
12-2017	46.686	0.000	0.000	0.000	0.000	46.686	0.000	16.340	30.346	-33.199
12-2018	42.870	0.000	0.000	0.000	0.000	42.870	0.000	15.005	27.866	-21.093
12-2019	39.714	0.000	0.000	0.000	0.000	39.714	0.000	13.900	25.814	-10.710
12-2020	37.048	0.000	0.000	0.000	0.000	37.048	0.000	12.967	24.081	-1.741
12-2021	34.732	0.000	0.000	0.000	0.000	34.732	0.000	12.156	22.576	6.044
12-2022	32.575	0.000	0.000	0.000	0.000	32.575	0.000	11.401	21.174	12.805
12-2023	30.526	0.000	0.000	0.000	0.000	30.526	0.000	10.684	19.842	18.672
S TOT	1004.188	230.897	0.000	418.281	0.000	355.011	0.000	124.254	230.757	18.672
AFTER	275.427	0.000	0.000	0.000	0.000	275.427	0.000	96.399	179.027	51.793
TOTAL	1279.615	230.897	0.000	418.281	0.000	630.438	0.000	220.653	409.785	51.793

BTAX RATE OF RETURN (PCT)	11.81	ATAx RATE OF RETURN (PCT)	10.64
BTAX PAYOUT YEARS	7.65	ATAx PAY OUT YEARS	7.79
BTAX PAYOUT YEARS (DISC)	11.96	ATAx PAY OUT YEARS (DISC)	13.56
BTAX NET INCOME/INVEST	1.97	ATAx NET INCOME/INVEST	1.63
BTAX NET INCOME/INVEST(DISC)	1.18	ATAx NET INCOME/INVEST(DISC)	1.09
PRODUCTION START DATE	07/2009	PROJECT LIFE (YEARS)	31.83
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.269
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.882
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	430.865
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	430.865
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND --- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W. FACTOR	B.F.I.T. WORTH	A.F.I.T. WORTH	A.F.I.T. BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	630.4	409.8	630.4
2.00	429.3	274.5	385.5
5.00	229.4	139.0	179.4
8.00	102.2	51.8	63.5
10.00	42.2	10.3	12.3
12.00	-4.4	-22.1	-25.9
15.00	-56.4	-58.5	-67.1
18.00	-93.6	-84.8	-95.6
20.00	-112.5	-98.2	-109.7
25.00	-145.8	-122.1	-133.8
30.00	-165.8	-136.5	-147.6
35.00	-177.6	-145.0	-155.2
40.00	-184.1	-149.7	-158.9
45.00	-187.0	-151.8	-160.0
50.00	-187.6	-152.1	-159.5

SUB_AvgDay_Gas

Daily Gas, Mc/day

Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	131.876
Qref	135.756
Qab	12.115
"b"	1.800000
De	37.094107
Dmin	5.000
Yrs	28.493
Rem	327636
Cum	103361
EUR	430998

10000

1000

100

10

0.1

16

15

14

13

12

11

10

09

08

07

06

05

04

03

02

SPUD: 08-MAY-2009
FDD: 15-JUL-2009

ROSA UNIT #162C
BLANCO MV/BASIN MANCOS/BASIN DK

Spud Date 5-8-09
 Completed 7-10-09
 1" Delivered 00-00-00 MV
 00-00-00 MC
 00-00-00DK

Location: 935' FSL & 2200' FEL
 SW/4 SE/4 Section 30 (O), T31N, R05W
 Rio Arriba Co., NM

Elevation: 6432' GR
API #: 30-039-30719

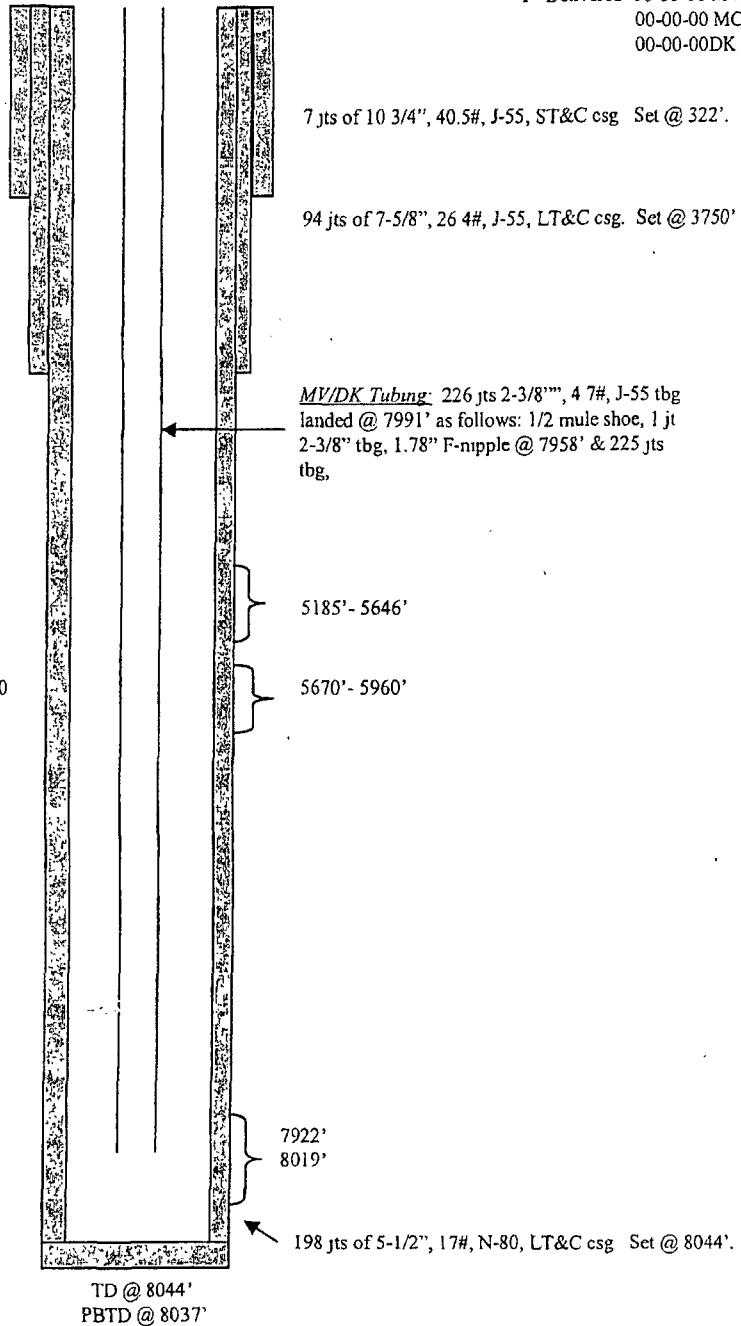
<u>Tops</u>	<u>Depth</u>
Kirtland	2664'
Pictured Cliffs	3266'
Cliff House	5443'
Menefee	5495'
Point Lookout	5669'
Mancos	6160'
Dakota	7918'

CH/MEN: 5185'-5646' (45, 0.34" holes) Frac with 6849#
 20/40 BASF followed with 57603# 20/40 BASF

PLQ: 5670'-5960' (59, 0.34" holes) Frac with 6849# 20/40
 BASF followed with 101,898# 20/40 BASF

NOTE: Mesa Verde and Dakota only
 Completed at this time. Mancos will
 be completed at a later date

Dakota: 7922'-8019' (78, 0.34" holes) Frac w/ 5005#
 100 mesh BASF followed with 110,867# 40/70 mesh
 Ottawa sand



HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	290 s xs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	630 s xs	1561 cu.ft.	surface
6 3/4"	5 1/2", 17#	335 s xs	468 cu.ft.	3756' - CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30719	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 162C

II. ¹⁰ Surface Location

Ul or lot no. O	Section 30	Township 31N	Range 5W	Lot.Idn	Feet from the 935	North/South Line SOUTH	Feet from the 2200	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	²⁰ O/G/W O
009018		
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD JUL 14 '09

OIL CONS. DIV.

IV. Well Completion Data NOTE: MV & DK to be commingled - Mancos to be completed at a later date

²¹ Spud Date 5-8-09	²² Ready Date 7-10-09	²³ TD 8044' MD	²⁴ PBD 8037' MD	²⁵ Perforations 7922' - 8019'	²⁶ DIST. 33 AZT- 3182
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 322'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	3750'	630 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8044'	335 sx - 3756' (CBL)		
	2.375", 4.7#, J-55	7991'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 6-11-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 2 lb.
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 869 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			7/14/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Chantler</i> 7-20-09		
Title: Drlg COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: JUL 20 2009		
Date: 7-13-09		Phone: 505-634-4208			

BSM approval

8

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

(See other instructions on
reverse side)
JUL 16 2009

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS

Bureau of Land Management
Farmington Field Office

1a	TYPE OF WELL	☐ OIL WELL	☒ GAS WELL	☐ DRY	☐ OTHER
b	TYPE OF COMPLETION	☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER			
2	NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY				
3	ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208				
4	LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface 935' FSL & 2200' FEL, sec 30, T31N, R5W At top production interval reported below Same At total depth Same				
5	LEASE DESIGNATION AND LEASE NO NMSF-078764				
6	IF INDIAN, ALLOTTEE OR				
7	UNIT AGREEMENT NAME Rosa Unit				
8	FARM OR LEASE NAME, WELL NO Rosa Unit #162C				
9	API WELL NO 30-039-30719-0001				
10	FIELD AND POOL, OR WILDCAT Basin Dakota				
11	SEC, T, R, M OR BLOCK AND SURVEY OR AREA Sec 30, T31N, R5W				
12	COUNTY OR Rio Arriba		13 STATE New Mexico		
14	PERMIT NO		DATE ISSUED		
15	DATE SPUDDED 5-8-09	16	DATE T D REACHED 5-16-09	17	DATE COMPLETED (READY TO PRODUCE) 7-13-09
18	ELEVATIONS (DK, RKB, RT, GR, ETC)* 6432' GR		19		
20	TOTAL DEPTH, MD & TVD 8044'		21	PLUG, BACK T D, MD & TVD 8037' MD	
22	IF MULTICOMP, HOW MANY 3*		23	INTERVALS DRILLED BY	
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA 7922' - 8019' MD - MV/DK commingled per AZT-3182 - * Mancos to be completed at later date				
25	WAS DIRECTIONAL SURVEY MADE No				
26	TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated GR-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL				
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
10-3/4", J-55	40.5#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", J-55	26.4#	3750'	9-7/8"	630 SX - SURFACE	
5-1/2", N-80	17.0#	8044'	6-3/4"	335 SX - 3756' (CBL) ✓	
29 LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	
30 TUBING RECORD					
SIZE	DEPTH SET (MD)	PACKER SET (MD)			
2 3/4", 4.7#, J-55, EUE 8rd	7991	none			
31 PERFORATION RECORD (Interval, size, and number)			32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC		
Dakota 7922-8019' Total of 78, 0 34" holes ✓			DEPTH INTERVAL (MD)		
			AMOUNT AND KIND OF MATERIAL USED		
			7922' - 8019' Fraced with 5005# 100 mesh BASF followed with 110,867# 40/70 mesh Ottawa sand ✓		
			RCVD JUL 17 '09		
			OIL CONS. DIV.		

33 PRODUCTION NOTE: Dakota to be commingled with Mesa Verde - AZT-3182							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
6-11-09	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	2 lb.				869 mcf/d ✓		
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD						TEST WITNESSED BY Buddy Banks	

35 LIST OF ATTACHMENTS	SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM
36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED	DATE
<i>Curry Rogers</i>	7-13-09
NMOCB	
B7/c1	
ACCEPTED FOR RECORD	
JUL 16 2009	
FARMINGTON FIELD OFFICE	
BY T. Salyers	

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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3266'	
					CLIFFHOUSE	5443'	
					MENEFEE	5495'	
					POINT LOOKOUT	5669'	
					MANCOS	6160'	
					DAKOTA	7918'	

March 1, 2011

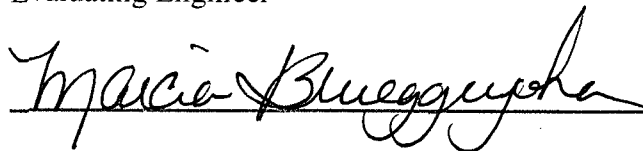
The ROSA Unit #166B DAKOTA Formation Well (commercial) is located 2305 feet from the North Line and 2305 feet from the East Line, Section 30 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 13, 2008 and completed in the Dakota formation on June 30, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 7898' to 8502'. This well has a 2.875" tubing string. This well was shut in with a SICP of 20 psig. On June 25, 2010 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 217 MCFD. This completion was shut in for almost two years to allow the Mancos formation to produce solely. As a result, the revised test date and delivery for this well is May 20, 2010 per agreement with the BLM.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 8.07% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #166B | 1PDP | DAKOTA | J7PK88VG3G | 62209263
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 01/2010	SJ_OP_POST
GAS 190 X M/D 5 EXP B/1.75 45	SJ_OP_POST
" X 10 M/D X YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 03/2010 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2008 12/2010 #	SJ_OP_POST

PropID: 2154 RSV CAT: 1PDP
 Well Name: ROSA UNIT #166B
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 09:23:08
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA			
	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	01/2010										
401 GAS	190.00	X	M/D	5.00	EXP	B/1.75 45.00	232.410 7/2020	45.0000	5779.	1027.	
402 "	X	10.00	M/D	X	YRS	EXP 5.00	401.680 4/2044	5.0000	1027.	304.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M					
501 "	X	6.627	6.827	6.197	4.987	#/M					
502 "	X	4.587	5.117	6.057	6.497	#/M					
503 "	01/2008	6.377	7.277	8.087	8.277	#/M					
504 "	X	9.427	9.846	11.356	7.637	#/M					
505 "	X	6.427	4.267	2.837	4.627	#/M					
506 "	01/2009	4.827	3.107	2.687	2.617	#/M					
507 "	X	2.497	2.647	2.977	3.177	#/M					
508 "	X	2.467	3.417	4.257	4.277	#/M					
509 "	01/2010	5.72	5.31	4.66	3.77	#/M					
510 "	X	3.87	3.69	4.28	4.08	#/M					
511 "	X	3.47	4.126	5.75	5.75	#/M					
512 "		5.75	X	\$/M	TO	LIFE PC 0.00	4/2044		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC 0.00	4/2044		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC 0.00	4/2044		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC 0.00	4/2044		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT 0.00	4/2044		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	4/2044		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	4/2044		0.865	0.865	
OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	4/2044				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	4/2044				
905 S /89	1.02	X	FRAC	TO	LIFE	MUL 89.00	4/2044				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	4/2044				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	4/2044				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	4/2044				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	4/2044				
914 GAS	01/2008	0 0 0 0 0 0	2376	0 0 0 0 0 0	0 0 0 0 0 0	#	2.376 4/2009				
915 "	X	0 0 0 0 0 0	0 0 0 0 0 0	3074.27	4106.4	3376.35 #	12.933 7/2010				
916 "	X	3074.78	2533.89	2647.92	3007.68	#	24.197 11/2010				
INVESTMENTS	Tangible	Intang	Units	Invest.	Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77	M\$G	03/2010	AD	ESC INV	625.961	3/2010	0	625.9	1251.9

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.02
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 2154 RSV CAT: 1PDP
 Well Name: ROSA UNIT #166B
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 09:23:08
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	GAS		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
					\$/B	\$/M				
09-2007		0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000	0.000
10-2007		0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000	0.000
11-2007		0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000	0.000
12-2007		0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000	0.000
12-2008		0.000	2.376	0.000	0.000	0.000	1.0	0.000	0.000	0.000
12-2009		0.000	0.000	0.000	0.000	0.000	0.0	0.000	0.000	0.000
12-2010		0.000	25.050	0.000	21.669	0.00	1.0	0.000	77.931	77.931
12-2011		0.000	32.786	0.000	28.359	0.00	1.0	0.000	138.809	138.809
12-2012		0.000	25.973	0.000	22.467	0.00	1.0	0.000	109.968	109.968
12-2013		0.000	22.040	0.000	19.064	0.00	1.0	0.000	93.313	93.313
12-2014		0.000	19.408	0.000	16.788	0.00	1.0	0.000	82.171	82.171
12-2015		0.000	17.494	0.000	15.132	0.00	1.0	0.000	74.065	74.065
12-2016		0.000	16.023	0.000	13.860	0.00	1.0	0.000	67.840	67.840
12-2017		0.000	14.850	0.000	12.845	0.00	1.0	0.000	62.871	62.871
12-2018		0.000	13.886	0.000	12.011	0.00	1.0	0.000	58.791	58.791
12-2019		0.000	13.077	0.000	11.312	0.00	1.0	0.000	55.366	55.366
12-2020		0.000	12.385	0.000	10.713	0.00	1.0	0.000	52.437	52.437
12-2021		0.000	11.764	0.000	10.176	0.00	1.0	0.000	49.806	49.806
12-2022		0.000	11.176	0.000	9.667	0.00	1.0	0.000	47.316	47.316
12-2023		0.000	10.617	0.000	9.184	0.00	1.0	0.000	44.950	44.950
S TOT		0.000	248.903	0.000	213.246	0.00	1.0	0.000	1015.635	1015.635
AFTER		0.000	130.631	0.000	112.996	0.00	1.0	0.000	553.076	553.076
TOTAL		0.000	379.535	0.000	326.242	0.00	1.0	0.000	1568.710	1568.710

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2010	6.443	8.400	0.000	63.088	125.192	500.769	0.000	625.961	-562.873	-465.674
12-2011	11.476	8.400	0.000	118.934	0.000	0.000	0.000	0.000	118.934	-377.126
12-2012	9.091	8.400	0.000	92.476	0.000	0.000	0.000	0.000	92.476	-313.375
12-2013	7.714	8.400	0.000	77.199	0.000	0.000	0.000	0.000	77.199	-264.099
12-2014	6.793	8.400	0.000	66.977	0.000	0.000	0.000	0.000	66.977	-224.514
12-2015	6.123	8.400	0.000	59.542	0.000	0.000	0.000	0.000	59.542	-191.930
12-2016	5.609	8.400	0.000	53.831	0.000	0.000	0.000	0.000	53.831	-164.653
12-2017	5.198	8.400	0.000	49.274	0.000	0.000	0.000	0.000	49.274	-141.535
12-2018	4.860	8.400	0.000	45.531	0.000	0.000	0.000	0.000	45.531	-121.756
12-2019	4.577	8.400	0.000	42.389	0.000	0.000	0.000	0.000	42.389	-104.705
12-2020	4.335	8.400	0.000	39.701	0.000	0.000	0.000	0.000	39.701	-89.919
12-2021	4.118	8.400	0.000	37.289	0.000	0.000	0.000	0.000	37.289	-77.059
12-2022	3.912	8.400	0.000	35.004	0.000	0.000	0.000	0.000	35.004	-65.882
12-2023	3.716	8.400	0.000	32.834	0.000	0.000	0.000	0.000	32.834	-56.175
S TOT	83.966	117.600	0.000	814.069	125.192	500.769	0.000	625.961	188.108	-56.175
AFTER	45.724	170.800	0.000	336.551	0.000	0.000	0.000	0.000	336.551	1.797
TOTAL	129.690	288.400	0.000	1150.620	125.192	500.769	0.000	625.961	524.659	1.797

PropID: 2154 RSV CAT: 1PDP
 Well Name: ROSA UNIT #166B
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 09:23:08
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

AFTER TAX ECONOMICS

EFFECTIVE DATE: 09/2007

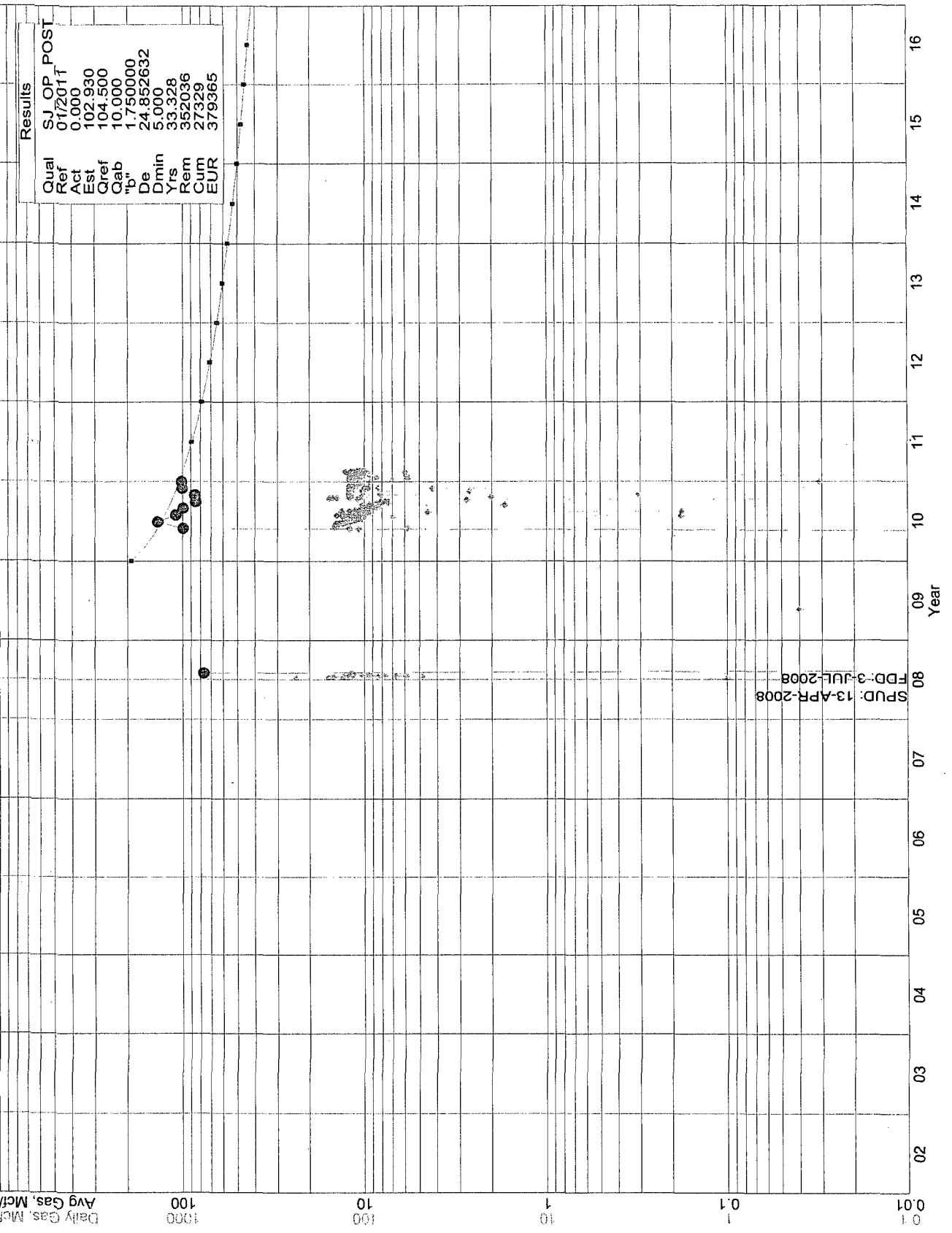
--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW			EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2010	63.088	28.110	0.000	500.769	0.000	-465.791	0.000	-163.027	-399.846	-334.587
12-2011	118.934	27.738	0.000	0.000	0.000	91.195	0.000	31.918	87.015	-269.803
12-2012	92.476	19.810	0.000	0.000	0.000	72.667	0.000	25.433	67.043	-223.586
12-2013	77.199	14.151	0.000	0.000	0.000	63.048	0.000	22.067	55.132	-188.395
12-2014	66.977	11.175	0.000	0.000	0.000	55.802	0.000	19.531	47.447	-160.352
12-2015	59.542	11.171	0.000	0.000	0.000	48.371	0.000	16.930	42.612	-137.033
12-2016	53.831	11.175	0.000	0.000	0.000	42.656	0.000	14.930	38.902	-117.321
12-2017	49.274	1.861	0.000	0.000	0.000	47.413	0.000	16.594	32.679	-101.989
12-2018	45.531	0.000	0.000	0.000	0.000	45.531	0.000	15.936	29.595	-89.132
12-2019	42.389	0.000	0.000	0.000	0.000	42.389	0.000	14.836	27.553	-78.050
12-2020	39.701	0.000	0.000	0.000	0.000	39.701	0.000	13.896	25.806	-68.438
12-2021	37.289	0.000	0.000	0.000	0.000	37.289	0.000	13.051	24.238	-60.080
12-2022	35.004	0.000	0.000	0.000	0.000	35.004	0.000	12.251	22.753	-52.815
12-2023	32.834	0.000	0.000	0.000	0.000	32.834	0.000	11.492	21.342	-46.505
S TOT.	814.069	125.192	0.000	500.769	0.000	188.108	0.000	65.838	122.270	-46.505
AFTER	336.551	0.000	0.000	0.000	0.000	336.551	0.000	117.793	218.758	-8.823
TOTAL	1150.620	125.192	0.000	500.769	0.000	524.659	0.000	183.631	341.029	-8.823

BTAX RATE OF RETURN (PCT)	8.07	ATAx RATE OF RETURN (PCT)	7.66
BTAX PAYOUT YEARS	11.31	ATAx PAY OUT YEARS	11.31
BTAX PAYOUT YEARS (DISC)	33.06	ATAx PAY OUT YEARS (DISC)	36.67
BTAX NET INCOME/INVEST	1.84	ATAx NET INCOME/INVEST	1.54
BTAX NET INCOME/INVEST(DISC)	1.00	ATAx NET INCOME/INVEST(DISC)	0.98
PRODUCTION START DATE	01/2010	PROJECT LIFE (YEARS)	36.67
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	0.000
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.895
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-2.376
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	379.535
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	377.159
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	111.921	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	524.7	341.0	524.7
2.00	312.6	200.0	274.1
5.00	116.2	68.5	85.1
8.00	1.8	-8.8	-10.4
10.00	-48.0	-42.8	-49.0
12.00	-84.1	-67.5	-75.9
15.00	-120.9	-93.0	-102.3
18.00	-143.9	-109.0	-118.1
20.00	-154.0	-116.2	-124.8
25.00	-167.7	-126.1	-133.3
30.00	-171.3	-128.9	-134.8
35.00	-169.5	-127.8	-132.6
40.00	-164.7	-124.5	-128.4
45.00	-158.3	-120.1	-123.3
50.00	-151.2	-115.0	-117.6

ROSA UNIT #166B | 1PDP | DAKOTA | J7PK88/G3G | 62209263

SJB_AvgDay_Gas



SPUD: 13-APR-2008
FDD: 3-JUL-2008

ROSA UNIT #166B

BLANCO MESAVERDE/BASIN MANCOS/BASIN DK

Location: 2305' FNL, 2305' FEL
SW/4 NE/4 Section 30 (G), T31N, R5W
Rio Arriba Co., NM
Elevation: 6385' GR
API: 30-039-29841

Spud Date 4-13-2008
Completed 6-30-2008 (DK)
10-31-08 (MC)
5-22-08
ID'd: 7-3-08 (DK)
11-19-08 (MC)

Tops **Depth**

Ojo Alamo 2498'
Kirtland 2632'
Pictured Cliffs 3228'
Cliff House 5432'
Point Lookout 5680'
Mancos 6140'
Dakota 7898'

Mesa Verde:

2nd stage: 5433'-5630' (32, .34" holes) Frac with 80,000# 20/40 BASF

1st stage: 5680'-5906' (54, .34" holes) Frac with 80,000# 20/40 BASF

Mancos:

6th stage: 6290'-6470' (39, .34" holes) Frac w/7506# 100 mesh WS then 121,496# 40/70 WS

5th stage: 6923'-7075' (27, .34" holes) Frac w/8200# 100 mesh WS then 113,076# 40/70 WS

4th stage: 7140'-7310' (54, .34" holes) Frac w/8000# 100 mesh WS then 94,000# 40/70 WS

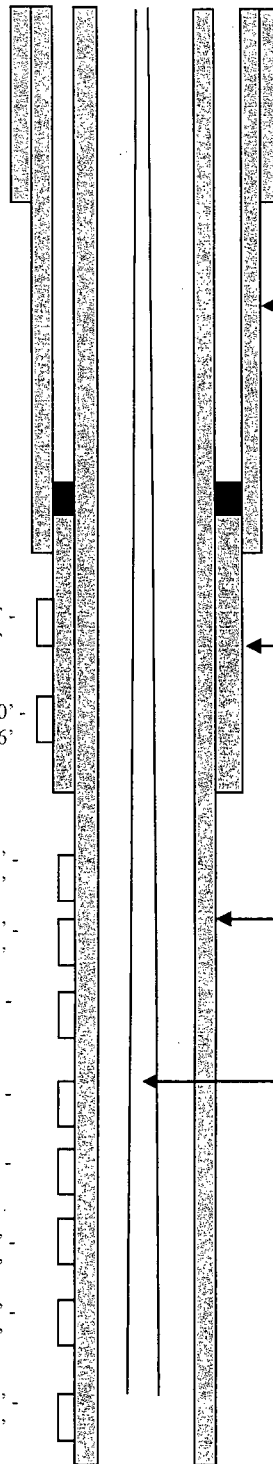
3rd stage: 7345'-7385' (27, .34" holes) Frac w/8000# 100 mesh WS then 107,224 40/70 WS

2nd stage: 7425'-7500' (33, .34" holes) Frac w/8000# 100 mesh WS then 6000# 40/70 WS

1st stage: 7553'-7672' (36, .34" holes) Frac w/7500# 100 mesh WS then 45,000# 40/70 WS

Greneros: 7796'-7849' (27, .34" holes) Frac w/7720# 100 mesh WS then 25,177# 40/70 WS

Dakota: 7898' - 8052' (81, .37" holes) Frac w/10,727# LP108 14/40 followed w/3470# tempered LC 20/40.



10 jts of 20", 94#, K-55, BT&C csg.
Set @ 426'
Hole Size: 26"

83 jts of 13-3/8", 68#, L-80, BT&C csg. Set @ 3703'.
Hole Size: 17-1/2"

56 jts of 9-5/8", 47#, P-110, LT&C csg, set @ 5969'. Top of Liner: 3480', Hole Size: 12-1/4"

183 jts of 5-1/2", 17#, N-80 LT&C csg.
Landed @ 8243'. Float collar @ 8196'.
Marker jt @ 5539'
Hole Size: 7-7/8"

Tubing landed as follows: 2 3/8" 4.7# J-55 cue tbg as follows top down w/ KB corr: tbg hanger, 252 jts, 2 3/8" F-Npl @ 7993', 1 jt, 1/2 MS @ 8024'

TD @ 8243'
PBTD @ 8174'

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
26"	20"	739 sx	1172 cu.ft.	Surface
17-1/2"	13-3/8"	2000 sx	4022 cu.ft.	Surface
12-1/4"	9-5/8"	540	1155 cu.ft.	3480' (CBL)
7-7/8"	5 1/2"	850 sx	1860 cu.ft.	3200' (CBL)

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-29841	⁵ Pool Name BASIN DAKOTA <i>NSL-5681</i>	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 166B

II. ¹⁰ Surface Location

UL or lot no. G	Section 30	Township 31N	Range 5W	Lot Idn	Feet from the 2305	North/South Line NORTH	Feet from the 2305	East/West line EAST	County RIO ARriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
									OIL CONS. DIV.
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date DIST. 3				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

IV. Well Completion Data NOTE: Mesaverde and Mancos to be completed at a later date

²¹ Spud Date 4-13-08	²² Ready Date 6-30-08	²³ TD 8243' MD	²⁴ PBDT 8196'	²⁵ Perforations 7898' - 8052'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20", 94#, K-55	426'	739		
17-1/2"	13-3/8", 68#, L-80	3703'	2000		
12-1/4"	9 5/8", 47#, P-110	3480' - 5969'	540		
7-7/8"	5 1/2", 17#, N-80	8243'	850		
	2.875", 6.5#, J-55	8051'	NONE AT THIS TIME		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 6-25-08	³⁴ Test Length 1.0 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 2.0 oz
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 217 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			7/3/08 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles L. 7-7-08</i>		
Title: Dirg COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: JUL 07 2008		
Date: 6-30-08		Phone: 505-634-4208			

bim approval

B

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

1a	TYPE OF WELL	OIL WELL	☒ GAS WELL	DRY	OTHER
b	TYPE OF COMPLETION	☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER			
2	NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY				
3	ADDRESS AND TELEPHONE NO P O Box 640, Aztec, NM 87410 (505) 634-4208				
4	LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface: 2305' FNL & 2305' FEL, sec 30, T31N, R5W At top production interval reported below At total depth:				
5	LEASE DESIGNATION AND LEASE NO NMSF-078764				
6	IF INDIAN ALLOTTEE OR				
7	UNIT AGREEMENT NAME Rosa Unit				
8	FARM OR LEASE NAME, WELL NO Bureau of Land Management Farmington Field Office Rosa Unit #166B				
9	API WELL NO 30-039-29841				
10	FIELD AND POOL, OR WILDCAT BASIN DAKOTA				
11	SEC, T, R, M, OR BLOCK AND SURVEY OR AREA SW/4 NE/4, Sec 30, T31N, R5W				
12	COUNTY OR Rio Arriba		13 STATE New Mexico		
14	PERMIT NO		DATE ISSUED		
15	DATE SPUDDED 4-13-08	16	DATE T D REACHED 6-6-08	17	DATE COMPLETED (READY TO PRODUCE) 6-30-08
18	ELEVATIONS (DK, RKB, RT, GR, ETC)* 6385' GR				
19	ELEVATION CASINGHEAD				
20	TOTAL DEPTH, MD & TVD 8243' MD		21	PLUG, BACK T D, MD & TVD 8196'	
22	IF MULTICOMP, HOW MANY 3*		23	INTERVALS DRILLED BY	
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA 7898' - 8052' * Mesaverde & Mancos to be completed at later date				
25	WAS DIRECTIONAL SURVEY MADE YES				
26	TYPE ELECTRIC AND OTHER LOGS RUN				
27	WAS WELL CORED Yes				

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
20", K-55	94#	426'	26"	739 SX - SURFACE	
13-3/8", L-80	68#	3703'	17-1/2"	2000 SX - SURFACE	
5-1/2", N-80	17.0#	8243'	7-7/8"	850 SX - 3200' (CBL)	

29 LINER RECORD				30 TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
9-5/8", P-110, 47#	3480'	5969'	540 sx TOC - 3480' (CBL)		2 875", 6.5#, J-55, EUE 8rd	8051'	none

31. PERFORATION RECORD (Interval, size, and number)			32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC	
Dakota. 7898' - 8052' Total of 81, 0.37" holes			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
			7898' - 8052'	Fraced with 10,727# LiteProp 108 14/40 followed w/3470# tempered LC 20/40 RCVD JUL 3 '08
				OIL CONS. DIV.

33 PRODUCTION		DIST. 3				
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Flowing			WELL STATUS (PRODUCING OR SI) SI - waiting on tie-in	
DATE OF TEST 6-25-08	TESTED 10 hr	CHOKE SIZE 2"	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL
						GAS-OIL RATIO
FLOW TUBG PRESS 0	CASING PRESSURE 20 oz	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF 217 p/day	WATER - BBL
						OIL GRAVITY-API (CORR)
34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) TO BE SOLD						TEST WITNESSED BY Al Rector

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED Carson Higgins TITLE Drig COM DATE 6-30-08

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 MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					KIRTLAND	2632'	
					FRUITLAND COAL	2972'	
					PICTURED CLIFFS	3228'	
					CLIFFHOUSE	5432'	
					MENEFEE	5474'	
					POINT LOOKOUT	5680'	
					MANCOS	6140'	
					DAKOTA	7898'	

February 28, 2011

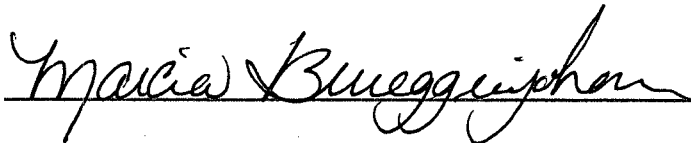
The ROSA Unit #168C DAKOTA Formation Well (commercial) is located 1275 feet from the North Line and 280 feet from the East Line, Section 28 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on April 6, 2009 and completed in the Dakota formation on May 14, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8337' to 8442'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On May 9, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 800 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 25.17% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #168C | 1PDP | DAKOTA | J7PKN9UH1G | 62209264
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 06/2009	SJ_OP_POST
GAS 590 X M/D 12 MOS B/1.5 75	SJ_OP_POST
" 253 X M/D 5 IMO FLAT 0	SJ_OP_POST
" X X M/D 10 EXP B/1.5 35	SJ_OP_POST
" X 10 M/D X YRS EXP 10	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 302.49904 370.20805 M\$G 03/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22717 RSV CAT: 1PDP
 Well Name: ROSA UNIT #168C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:03:14
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA			
	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	06/2009										
401 GAS	590.00	X	M/D	12.00	MOS	B/1.5 75.00	92.293 5/2010	75.0000	17946.	4486.	
402 "	253.00	X	M/D	5.00	IMO	FLAT 0.00	130.769 10/2010		7695.	7695.	
403 "	X	X	M/D	10.00	EXP	B/1.5 35.00	372.782 1/2016	35.0000	7695.	2393.	
404 "	X	10.00	M/D	X	YRS	EXP 10.00	610.671 8/2035	9.9999	2393.	304.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M	4/2007				
501 "	X	6.627	6.827	6.197	4.987	#/M	8/2007				
502 "	X	4.587	5.117	6.057	6.497	#/M	12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M	4/2008				
504 "	X	9.427	9.846	11.356	7.637	#/M	8/2008				
505 "	X	6.427	4.267	2.837	4.627	#/M	12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M	4/2009				
507 "	X	2.497	2.647	2.977	3.177	#/M	8/2009				
508 "	X	2.467	3.417	4.257	4.277	#/M	12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M	4/2010				
510 "	X	3.87	3.69	4.28	4.08	#/M	8/2010				
511 "	X	3.47	4.126	5.75	5.75	#/M	12/2010				
512 "	5.75	X	\$/M	TO	LIFE	PC 0.00	8/2035		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC 0.00	8/2035		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC 0.00	8/2035		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC 0.00	8/2035		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT 0.00	8/2035		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	8/2035		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	8/2035		0.865	0.865	
OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	8/2035				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	8/2035				
905 S /89	0.99	X	FRAC	TO	LIFE	MUL 89.00	8/2035				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	8/2035				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	8/2035				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	8/2035				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	8/2035				
914 GAS	01/2009	0 0 0 0 0	13522 11401 9857 6741 3146.4	5754	#	50.421 11/2009					
915 "	X	5928 5405.28 4305.6 4138.8 3946.56 7852.7 8167.9	#			90.166 6/2010					
916 "	X	8227.07 7582.91 8267.33 7615.85 7046.11	#			128.906 11/2010					

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	302.50	370.21	MSG	03/2009 AD	ESC INV	672.707	3/2009	0	672.7	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 22717 RSV CAT: 1PDP
 Well Name: ROSA UNIT #168C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:03:14
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		56.349		0.000		48.742		0.00	2.386	1.0	0.000	116.318	116.318
12-2010	0.000		79.721		0.000		68.958		0.00	3.589	1.0	0.000	247.509	247.509
12-2011	0.000		68.390		0.000		59.157		0.00	4.766	1.0	0.000	281.931	281.931
12-2012	0.000		50.257		0.000		43.472		0.00	4.766	1.0	0.000	207.180	207.180
12-2013	0.000		40.800		0.000		35.292		0.00	4.766	1.0	0.000	168.194	168.194
12-2014	0.000		34.831		0.000		30.129		0.00	4.766	1.0	0.000	143.588	143.588
12-2015	0.000		30.659		0.000		26.520		0.00	4.766	1.0	0.000	126.388	126.388
12-2016	0.000		27.491		0.000		23.780		0.00	4.766	1.0	0.000	113.329	113.329
12-2017	0.000		24.742		0.000		21.402		0.00	4.766	1.0	0.000	101.996	101.996
12-2018	0.000		22.268		0.000		19.261		0.00	4.766	1.0	0.000	91.796	91.796
12-2019	0.000		20.041		0.000		17.335		0.00	4.766	1.0	0.000	82.617	82.617
12-2020	0.000		18.037		0.000		15.602		0.00	4.766	1.0	0.000	74.355	74.355
12-2021	0.000		16.233		0.000		14.042		0.00	4.766	1.0	0.000	66.920	66.920
12-2022	0.000		14.610		0.000		12.637		0.00	4.766	1.0	0.000	60.228	60.228
12-2023	0.000		13.149		0.000		11.374		0.00	4.766	1.0	0.000	54.205	54.205
S TOT	0.000		517.576		0.000		447.703		0.00	4.326	1.0	0.000	1936.553	1936.553
AFTER	0.000		83.722		0.000		72.420		0.00	4.766	1.0	0.000	345.138	345.138
TOTAL	0.000		601.298		0.000		520.123		0.00	4.387	1.0	0.000	2281.691	2281.691
--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----								8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$				CUM. BTAX, M\$	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.000
12-2009	9.616	4.900	0.000	101.801	302.499	370.208	0.000	672.707	-570.906			-570.906	-510.959	
12-2010	20.462	8.400	0.000	218.647	0.000	0.000	0.000	0.000	218.647			-335.149	-335.149	
12-2011	23.308	8.400	0.000	250.223	0.000	0.000	0.000	0.000	250.223			-148.853	-148.853	
12-2012	17.128	8.400	0.000	181.652	0.000	0.000	0.000	0.000	181.652			-23.628	-23.628	
12-2013	13.905	8.400	0.000	145.889	0.000	0.000	0.000	0.000	145.889			69.493	69.493	
12-2014	11.871	8.400	0.000	123.317	0.000	0.000	0.000	0.000	123.317			142.377	142.377	
12-2015	10.449	8.400	0.000	107.539	0.000	0.000	0.000	0.000	107.539			201.227	201.227	
12-2016	9.369	8.400	0.000	95.560	0.000	0.000	0.000	0.000	95.560			249.647	249.647	
12-2017	8.432	8.400	0.000	85.164	0.000	0.000	0.000	0.000	85.164			289.604	289.604	
12-2018	7.589	8.400	0.000	75.807	0.000	0.000	0.000	0.000	75.807			322.536	322.536	
12-2019	6.830	8.400	0.000	67.387	0.000	0.000	0.000	0.000	67.387			349.642	349.642	
12-2020	6.147	8.400	0.000	59.808	0.000	0.000	0.000	0.000	59.808			371.917	371.917	
12-2021	5.532	8.400	0.000	52.987	0.000	0.000	0.000	0.000	52.987			390.190	390.190	
12-2022	4.979	8.400	0.000	46.848	0.000	0.000	0.000	0.000	46.848			405.149	405.149	
12-2023	4.481	8.400	0.000	41.324	0.000	0.000	0.000	0.000	41.324			417.367	417.367	
S TOT	160.101	122.500	0.000	1653.953	302.499	370.208	0.000	672.707	981.246			417.367	417.367	
AFTER	28.534	98.000	0.000	218.604	0.000	0.000	0.000	0.000	218.604			463.717	463.717	
TOTAL	188.634	220.500	0.000	1872.557	302.499	370.208	0.000	672.707	1199.850			463.717	463.717	

PropID: 22717 RSV CAT: 1PDP
 Well Name: ROSA UNIT #168C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:03:14
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%	DISC
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. ATAX	
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	101.801	67.921	0.000	370.208	0.000	-336.328	0.000	-117.715	-453.191	-408.734	
12-2010	218.647	67.024	0.000	0.000	0.000	151.623	0.000	53.068	165.579	-275.596	
12-2011	250.223	47.865	0.000	0.000	0.000	202.358	0.000	70.825	179.398	-142.031	
12-2012	181.652	34.192	0.000	0.000	0.000	147.459	0.000	51.611	130.041	-52.384	
12-2013	145.889	27.003	0.000	0.000	0.000	118.886	0.000	41.610	104.279	14.177	
12-2014	123.317	26.993	0.000	0.000	0.000	96.324	0.000	33.713	89.604	67.135	
12-2015	107.539	27.003	0.000	0.000	0.000	80.536	0.000	28.188	79.352	110.560	
12-2016	95.560	4.497	0.000	0.000	0.000	91.063	0.000	31.872	63.688	142.831	
12-2017	85.164	0.000	0.000	0.000	0.000	85.164	0.000	29.807	55.356	168.802	
12-2018	75.807	0.000	0.000	0.000	0.000	75.807	0.000	26.533	49.275	190.208	
12-2019	67.387	0.000	0.000	0.000	0.000	67.387	0.000	23.585	43.801	207.827	
12-2020	59.808	0.000	0.000	0.000	0.000	59.808	0.000	20.933	38.875	222.306	
12-2021	52.987	0.000	0.000	0.000	0.000	52.987	0.000	18.546	34.442	234.183	
12-2022	46.848	0.000	0.000	0.000	0.000	46.848	0.000	16.397	30.451	243.907	
12-2023	41.324	0.000	0.000	0.000	0.000	41.324	0.000	14.463	26.860	251.848	
S TOT	1653.953	302.499	0.000	370.208	0.000	981.246	0.000	343.436	637.810	251.848	
AFTER	218.604	0.000	0.000	0.000	0.000	218.604	0.000	76.511	142.093	281.976	
TOTAL	1872.557	302.499	0.000	370.208	0.000	1199.850	0.000	419.947	779.902	281.976	

BTAX RATE OF RETURN (PCT)	25.17	ATAX RATE OF RETURN (PCT)	21.55
BTAX PAYOUT YEARS	4.90	ATAX PAY OUT YEARS	5.17
BTAX PAYOUT YEARS (DISC)	5.59	ATAX PAY OUT YEARS (DISC)	6.12
BTAX NET INCOME/INVEST	2.78	ATAX NET INCOME/INVEST	2.16
BTAX NET INCOME/INVEST (DISC)	1.77	ATAX NET INCOME/INVEST (DISC)	1.47

PRESENT WORTH PROFILE AND

--- RATE-OF-RETURN VS. BONUS TABLE ---

P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	1199.8	779.9	1199.8
2.00	941.2	605.8	862.4
5.00	660.2	415.6	547.2
8.00	463.7	282.0	352.4
10.00	364.4	214.1	260.8
12.00	283.4	158.7	189.2
15.00	187.8	93.0	108.1
18.00	115.0	42.8	48.8
20.00	75.8	15.8	17.8
25.00	1.7	-35.3	-39.1
30.00	-48.7	-70.1	-76.3
35.00	-83.8	-94.1	-101.2
40.00	-108.3	-110.7	-118.0
45.00	-125.5	-122.2	-129.2
50.00	-137.5	-130.1	-136.6

PRODUCTION START DATE	06/2009	PROJECT LIFE (YEARS)	28.00
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	1.911
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.766
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	601.298
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	601.298
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PropID: 22443 RSV CAT: 1PDP
 Well Name: ROSA UNIT #164C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/28/2011
 TIME : 13:04:53
 DES : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

AFTER TAX ECONOMICS

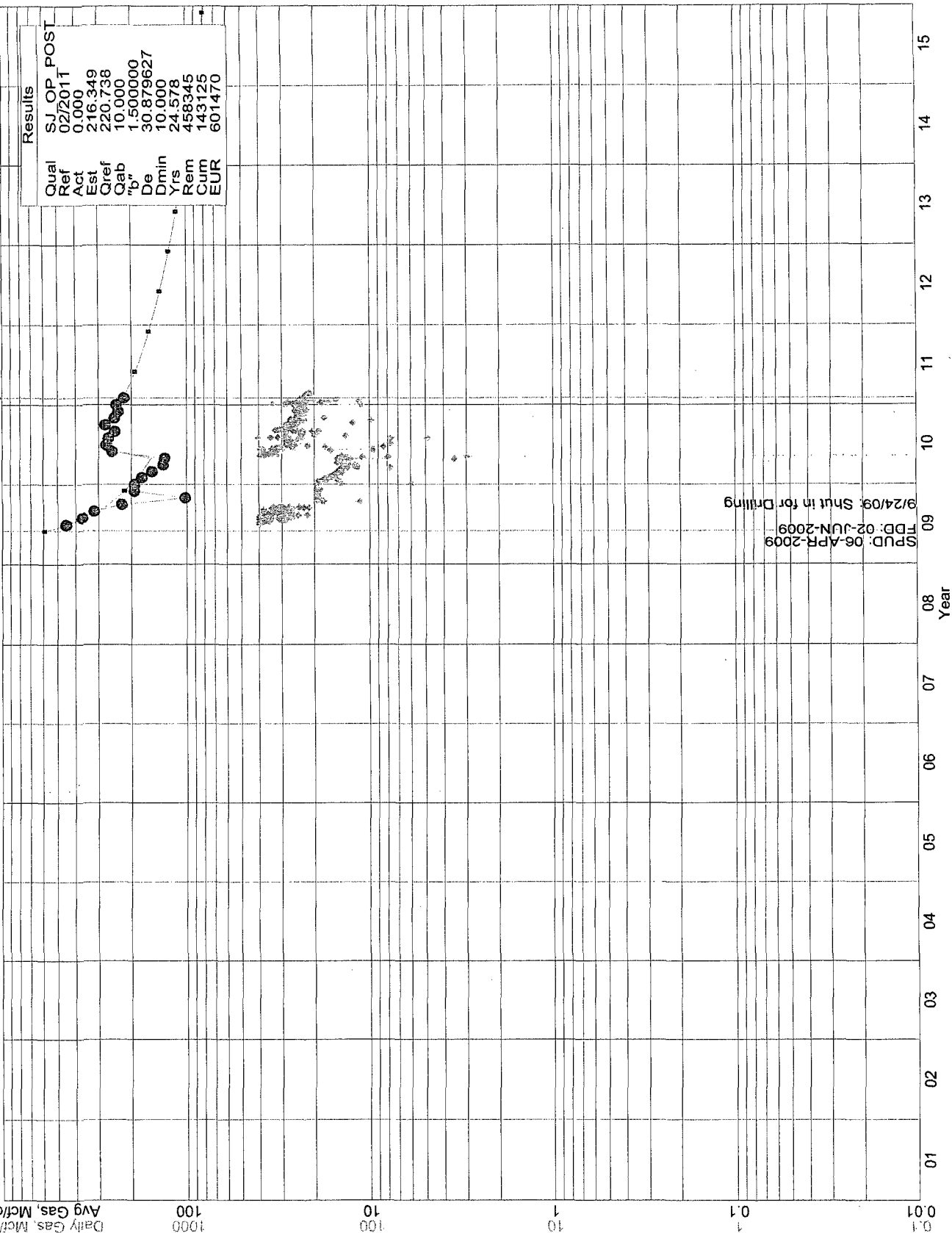
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	38.102	28.110	0.000	500.769	0.000	-490.777	0.000	-171.772	-416.087	-368.350
12-2010	33.259	27.738	0.000	0.000	0.000	5.521	0.000	1.932	31.327	-343.161
12-2011	61.936	19.810	0.000	0.000	0.000	42.126	0.000	14.744	47.192	-308.026
12-2012	47.382	14.151	0.000	0.000	0.000	33.231	0.000	11.631	35.751	-283.381
12-2013	39.188	11.175	0.000	0.000	0.000	28.013	0.000	9.805	29.384	-264.625
12-2014	33.784	11.171	0.000	0.000	0.000	22.613	0.000	7.915	25.870	-249.335
12-2015	29.891	11.175	0.000	0.000	0.000	18.715	0.000	6.550	23.340	-236.562
12-2016	26.921	1.861	0.000	0.000	0.000	25.060	0.000	8.771	18.150	-227.365
12-2017	24.563	0.000	0.000	0.000	0.000	24.563	0.000	8.597	15.966	-219.875
12-2018	22.636	0.000	0.000	0.000	0.000	22.636	0.000	7.923	14.713	-213.483
12-2019	21.024	0.000	0.000	0.000	0.000	21.024	0.000	7.358	13.666	-207.986
12-2020	19.651	0.000	0.000	0.000	0.000	19.651	0.000	6.878	12.773	-203.229
12-2021	18.448	0.000	0.000	0.000	0.000	18.448	0.000	6.457	11.992	-199.093
12-2022	17.325	0.000	0.000	0.000	0.000	17.325	0.000	6.064	11.261	-195.498
12-2023	16.258	0.000	0.000	0.000	0.000	16.258	0.000	5.690	10.568	-192.373
S TOT	450.367	125.192	0.000	500.769	0.000	-175.593	0.000	-61.458	-114.136	-192.373
AFTER	148.168	0.000	0.000	0.000	0.000	148.168	0.000	51.859	96.309	-174.570
TOTAL	598.535	125.192	0.000	500.769	0.000	-27.426	0.000	-9.599	-17.827	-174.570

BTAX RATE OF RETURN (PCT)	0.00	ATAW RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	31.67	ATAW PAY OUT YEARS	31.67
BTAX PAYOUT YEARS (DISC)	31.67	ATAW PAY OUT YEARS (DISC)	31.67
BTAX NET INCOME/INVEST	0.96	ATAW NET INCOME/INVEST	0.97
BTAX NET INCOME/INVEST (DISC)	0.54	ATAW NET INCOME/INVEST (DISC)	0.68
PRODUCTION START DATE	05/2009	PROJECT LIFE (YEARS)	31.67
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.020
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	5.038
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	195.496
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	195.496
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
--- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-27.4	-17.8	-27.4
2.00	-120.1	-80.7	-112.5
5.00	-206.5	-140.0	-178.9
8.00	-255.8	-174.6	-211.5
10.00	-276.3	-189.3	-223.7
12.00	-290.3	-199.7	-231.3
15.00	-303.0	-209.4	-237.3
18.00	-308.9	-214.5	-239.0
20.00	-310.4	-216.1	-238.6
25.00	-308.4	-216.1	-234.5
30.00	-301.8	-212.6	-227.8
35.00	-292.7	-207.2	-219.9
40.00	-282.4	-200.9	-211.6
45.00	-271.8	-194.0	-203.2
50.00	-261.0	-187.1	-195.0

SJB_AvgDay_Gas



ROSA UNIT #168C
BLANCO MV/BASIN MANCOSBASIN DK

Location: 1275' FNL & 280' FEL
 NE/4 NE/4 Section 28 (A), T31N, R05W
 Rio Arriba Co., NM

Elevation: 6793' GR
API #: 30-039-30003

Spud Date 4-6-09
 Completed 5-14-09
 1" Delivered 00-00-00 MV
 00-00-00 MC
 00-00-00DK

<u>Tops</u>	<u>Depth</u>
Kirtland	3075'
Pictured Cliffs	3658'
Cliff House	5876'
Mencfee	5930'
Point Lookout	6109'
Mancos	6496'
Dakota	8335'

8 jts of 10 3/4", 40.5#, K-55, ST&C csg Set @ 322'
 105 jts of 7-5/8", 26 4#, J-55, LT&C csg. Set @ 4181'

RCVD MAY 19 '09
OIL CONS. DIV.
DIST. 3

Dakota Tubing 257 jts 2-3/8", 4 7#, J-55 tbg
 landed @ 8328' as follows. 1/2 mule shoe, 1 jt
 2-3/8" tbg, 1 78" F-nipplr @ 8294' & 256 jts
 tbg,

Dakota 8337'-8442' (90, 0.34" holes) Frac w/ 5100# 100
 mesh BASF followed with 117,800# 40/70 mesh BASF

8337'
 8442'

208 jts of 5-1/2", 17#, N-80, LT&C csg Set @ 8474'

TD @ 8475'
 PBTD @ 8449'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	300 s xs	539 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	640 s xs	1578 cu.ft.	surface
6 3/4"	5 1/2", 17#	325 s xs	454 cu.ft.	4320' - CBL

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
NMSF-078769

6 IF INDIAN, ALLOTTEE OR

RCVD MAY 21 '09

7 UNIT AGREEMENT NAME

OIL CONS. DIV.

DIST. 3

Report to lease

8 FARM OR LEASE NAME WELL NO
Rosa Unit #168C

9 API WELL NO

30-039-30003-0001

10 FIELD AND POOL, OR WILDCAT
Basin Dakota

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA

Sec 28, T31N, R5W

12 COUNTY OR

Rio Arriba

13 STATE

New Mexico

19 ELEVATION CASINGHEAD

ROTARY TOOLS
x

CABLE TOOLS

25 WAS DIRECTIONAL SURVEY MADE
No

27 WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3 ADDRESS AND TELEPHONE NO

P O Box 640, Aztec, NM 87410 (505) 634-4208

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface 1275' FNL & 280' FEL, sec 28, T31N, R5W
At top production interval reported below - Same
At total depth Same

14 PERMIT NO

DATE ISSUED

15 DATE

SPOUDED
4-6-09

16 DATE T D

REACHED
4-22-09

17 DATE COMPLETED (READY TO PRODUCE)

5-14-09

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

6793' GR

20 TOTAL DEPTH, MD & TVD

8475'

21 PLUG, BACK T D, MD & TVD

8449' MD

22 IF MULTICOMP,

HOW MANY

3*

23 INTERVALS

DRILLED BY

ROTARY TOOLS

x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA 8337' - 8442' MD

* Mesaverde and Mancos to be completed at later date

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Gamma Ray-Density-Neutron, Pulse Neutron Decay and CBL

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
10-3/4", J-55	40.5#	322'	14-3/4"	300 SX - SURFACE ✓	
7-5/8", J-55	26.4#	4181'	9-7/8"	640 SX - SURFACE ✓	
5-1/2", N-80	17.0#	8474'	6-3/4"	325 SX - 4320' (CBL)	TOC @ 5720 per S.H.

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4 7/8", J-55, EUF 8rd	8328'	none

31 PERFORATION RECORD (Interval, s/v.c. and number)

Dakota 8337' - 8442' Total of 90, 0.34" holes ✓

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

8337' - 8442'

Fraced with 5100# 100 mesh BASF followed with 117,800# 40/70 mesh BASF

33 PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
5-9-09	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	2 lb				800 mcf/d ✓		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY Craig Ward

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED

Larry Higgins

DATE

5-18-09

ACCEPTED FOR RECORD

MAY 19 2009

FARMINGTON FIELD OFFICE
BY *J. Salazar*

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, core 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3658'	
					CLIFFHOUSE	5876'	
					MENESEE	5930'	
					POINT LOOKOUT	6109'	
					MANCOS	6496'	
					DAKOTA	8335'	

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30003	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 168C

II. ¹⁰ Surface Location

UL or lot no. A	Section 28	Township 31N	Range 5W	Lot.1dn	Feet from the 1275	North/South Line NORTH	Feet from the 280	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
	RCVD MAY 19 '09	

IV. Well Completion Data NOTE: Mesaverde to be completed at a later date

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 4-6-09	²² Ready Date 5-14-09	²³ TD 8475' MD	²⁴ PBD 8449' MD	²⁵ Perforations 8337' - 8442'	²⁶ DHC, MC
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J K-55	²⁹ Depth Set 322'	³⁰ Sacks Cement 300 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	4181'	640 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8474'	325 sx - 4320' (CBL) ^{5720 per S. Higgins}		
	2.375", 4.7#, J-55	8328'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 5-9-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 2 lb.
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 800 mcf/d		⁴¹ Test Method Pitot

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>		⁴³ 5/21/09 OIL CONSERVATION DIVISION Approved by: <i>Chad R...</i> 5-21-09 Title: SUPERVISOR DISTRICT # 3 Approval Date: MAY 21 2009
Printed name: Larry Higgins		
Title: Drig COM		
E-mail Address: larry.higgins@williams.com		
Date: 5-18-09	Phone: 505-634-4208	<i>Blm approval</i>

February 24, 2011

The ROSA Unit #169D DAKOTA Formation Well (commercial) is located 2395 feet from the South Line and 1720 feet from the East Line, Section 3 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 24, 2009 and completed in the Dakota formation on October 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8054' to 8236'. This well has a 2.375" tubing string. This well was shut in with a SICP of 310 psig. On October 26, 2009 the well was tested and after flowing for 2 hours through a 3/4" choke on the 2.375" tubing, the well gauged 1002 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 21.31% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #169D | 1PDP | DAKOTA | JAL9BC4QUT | 62260943
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 137 158 M/D 11 MOS EXP X	SJ_OP_POST
" 354 X M/D 5 EXP B/1.8 45	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.BPO_WI @M.BPO_NRI @M.BPO_NRI FRAC @M.PO_BAL M\$/746	BASE
" @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 410.60595 414.95110 M\$G 08/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #169D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 16:16:51
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA				INITIAL CALCULATED DATA					
	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate			
400 START	11/2009									
401 GAS	137.00 158.00 M/D	11.00 MOS	EXP X	49.268 9/2010	-16.8334	4167.	4806.			
402 "	354.00 X M/D	5.00 EXP	B/1.8 45.00	480.498 1/2021	45.0000	10768.	1985.			
403 "	X X M/D	30.00 YRS	EXP 5.00	767.422 10/2039	5.0000	1985.	759.			
500 PRI/GAS	01/2007 5.617 6.487 6.677 5.957 #/M			4/2007						
501 "	X 6.627 6.827 6.197 4.987 #/M			8/2007						
502 "	X 4.587 5.117 6.057 6.497 #/M			12/2007						
503 "	01/2008 6.377 7.277 8.087 8.277 #/M			4/2008						
504 "	X 9.427 9.846 11.356 7.637 #/M			8/2008						
505 "	X 6.427 4.267 2.837 4.627 #/M			12/2008						
506 "	01/2009 4.827 3.107 2.687 2.617 #/M			4/2009						
507 "	X 2.497 2.647 2.977 3.177 #/M			8/2009						
508 "	X 2.467 3.417 4.257 4.277 #/M			12/2009						
509 "	01/2010 5.72 5.31 4.66 3.77 #/M			4/2010						
510 "	X 3.87 3.69 4.28 4.08 #/M			8/2010						
511 "	X 3.47 4.126 5.75 5.75 #/M			12/2010						
512 "	5.75 X \$/M	TO LIFE	PC 0.00	10/2039		5.750	5.750			
600 ATX	4.69 X %	TO LIFE	PC 0.00	10/2039		0.047	0.047			
601 STX/GAS	3.75 X %	TO LIFE	PC 0.00	10/2039		0.037	0.037			
602 OPC/T	700.00 X \$/M	TO LIFE	PC 0.00	10/2039		700.000	700.000			
705 LSE/WI	0.9330 D FRAC	2035.931 M\$/746	FLAT 0.00			0.933	0.933			
706 " WI	0.93 D FRAC	TO LIFE	FLAT 0.00	10/2039		0.933	0.933			
720 NET/OIL	0.8076 D FRAC	2035.931 M\$/746	FLAT 0.00			0.808	0.808			
721 " OIL	0.80 D FRAC	TO LIFE	FLAT 0.00	10/2039		0.804	0.804			
740 NET/GAS	0.8076 D FRAC	2035.931 M\$/746	FLAT 0.00			0.808	0.808			
741 " GAS	0.80 D FRAC	TO LIFE	FLAT 0.00	10/2039		0.804	0.804			

OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate			
901 S 92	S/95 X FRAC	TO LIFE	DIV 146.00	10/2039						
903 S /89	0.49 X FRAC	TO LIFE	MUL 92.00	10/2039						
905 S /89	0.98 X FRAC	TO LIFE	MUL 89.00	10/2039						
907 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00	10/2039						
909 S /88	0.06 X FRAC	TO LIFE	MUL 92.00	10/2039						
911 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00	10/2039						
913 S /196	S/196 X FRAC	TO LIFE	MUL 88.00	10/2039						
914 GAS	01/2009 0 0 0 0 0 0 0 0 0 4137.84 4464 4459.68 #			13.062 1/2010						
915 "	X 4028.16 4463.76 4164.72 4755.36 4751.76 4912.08 #			40.137 7/2010						
916 "	X 6572.57 10633.7 11138.05 9373.1 #			77.855 11/2010						

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month Risk Inv.	Tot. T&I&R	Esc. T&I&R		
800 CAPITAL	410.61	414.95 MSG	08/2009 AD	ESC INV	825.557	8/2009	0	825.5	0.0	

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.98
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12.8
 F.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #169D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:16:51
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MMBBL	GAS, MMCF	MMCF	MMCF	OIL, MMBBL	GAS, MMCF	MMCF	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	8.602	0.000	0.000	0.000	6.947	0.000	0.000	0.00	3.356	1.0	0.000	23.317	23.317
12-2010	0.000	78.179	0.000	0.000	0.000	63.138	0.000	0.000	0.00	3.608	1.0	0.000	227.776	227.776
12-2011	0.000	80.440	0.000	0.000	0.000	64.964	0.000	0.000	0.00	4.702	1.0	0.000	305.474	305.474
12-2012	0.000	57.260	0.000	0.000	0.000	46.243	0.000	0.000	0.00	4.702	1.0	0.000	217.444	217.444
12-2013	0.000	46.566	0.000	0.000	0.000	37.607	0.000	0.000	0.00	4.702	1.0	0.000	176.835	176.835
12-2014	0.000	40.089	0.000	0.000	0.000	32.377	0.000	0.000	0.00	4.702	1.0	0.000	152.240	152.240
12-2015	0.000	35.640	0.000	0.000	0.000	28.783	0.000	0.000	0.00	4.702	1.0	0.000	135.342	135.342
12-2016	0.000	32.346	0.000	0.000	0.000	26.123	0.000	0.000	0.00	4.702	1.0	0.000	122.836	122.836
12-2017	0.000	29.786	0.000	0.000	0.000	24.055	0.000	0.000	0.00	4.702	1.0	0.000	113.111	113.111
12-2018	0.000	27.723	0.000	0.000	0.000	22.389	0.000	0.000	0.00	4.702	1.0	0.000	105.277	105.277
12-2019	0.000	26.016	0.000	0.000	0.000	21.011	0.000	0.000	0.00	4.702	1.0	0.000	98.795	98.795
12-2020	0.000	24.574	0.000	0.000	0.000	19.846	0.000	0.000	0.00	4.702	1.0	0.000	93.321	93.321
12-2021	0.000	23.322	0.000	0.000	0.000	18.835	0.000	0.000	0.00	4.702	1.0	0.000	88.565	88.565
12-2022	0.000	22.156	0.000	0.000	0.000	17.893	0.000	0.000	0.00	4.702	1.0	0.000	84.137	84.137
12-2023	0.000	21.048	0.000	0.000	0.000	16.999	0.000	0.000	0.00	4.702	1.0	0.000	79.930	79.930
S TOT	0.000	553.746	0.000	0.000	0.000	447.211	0.000	0.000	0.00	4.527	1.0	0.000	2024.401	2024.401
AFTER	0.000	222.388	0.000	0.000	0.000	178.953	0.000	0.000	0.00	4.699	1.0	0.000	840.890	840.890
TOTAL	0.000	776.134	0.000	0.000	0.000	626.164	0.000	0.000	0.00	4.576	1.0	0.000	2865.292	2865.292

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.928	1.306	0.000	20.083	383.087	387.141	0.000	770.228	-750.145	-647.155		
12-2010	18.831	7.837	0.000	201.108	0.000	0.000	0.000	0.000	0.000	201.108	-485.448	
12-2011	25.254	7.837	0.000	272.382	0.000	0.000	0.000	0.000	0.000	272.382	-282.654	
12-2012	17.977	7.837	0.000	191.630	0.000	0.000	0.000	0.000	0.000	191.630	-150.550	
12-2013	14.620	7.837	0.000	154.379	0.000	0.000	0.000	0.000	0.000	154.379	-52.009	
12-2014	12.586	7.837	0.000	131.817	0.000	0.000	0.000	0.000	0.000	131.817	25.897	
12-2015	11.189	7.837	0.000	116.316	0.000	0.000	0.000	0.000	0.000	116.316	89.551	
12-2016	10.155	7.837	0.000	104.844	0.000	0.000	0.000	0.000	0.000	104.844	142.676	
12-2017	9.351	7.837	0.000	95.923	0.000	0.000	0.000	0.000	0.000	95.923	187.680	
12-2018	8.704	7.837	0.000	88.736	0.000	0.000	0.000	0.000	0.000	88.736	226.229	
12-2019	8.168	7.837	0.000	82.790	0.000	0.000	0.000	0.000	0.000	82.790	259.531	
12-2020	7.715	7.837	0.000	77.769	0.000	0.000	0.000	0.000	0.000	77.769	288.495	
12-2021	7.322	7.837	0.000	73.406	0.000	0.000	0.000	0.000	0.000	73.406	313.810	
12-2022	6.956	7.837	0.000	69.344	0.000	0.000	0.000	0.000	0.000	69.344	335.952	
12-2023	6.608	7.837	0.000	65.485	0.000	0.000	0.000	0.000	0.000	65.485	355.313	
S TOT	167.363	111.025	0.000	1746.013	383.087	387.141	0.000	770.228	975.785	355.313		
AFTER	69.519	124.087	0.000	647.284	0.000	0.000	0.000	0.000	0.000	647.284	472.027	
TOTAL	236.882	235.111	0.000	2393.298	383.087	387.141	0.000	770.228	1623.069	472.027		

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #169D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:16:51
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

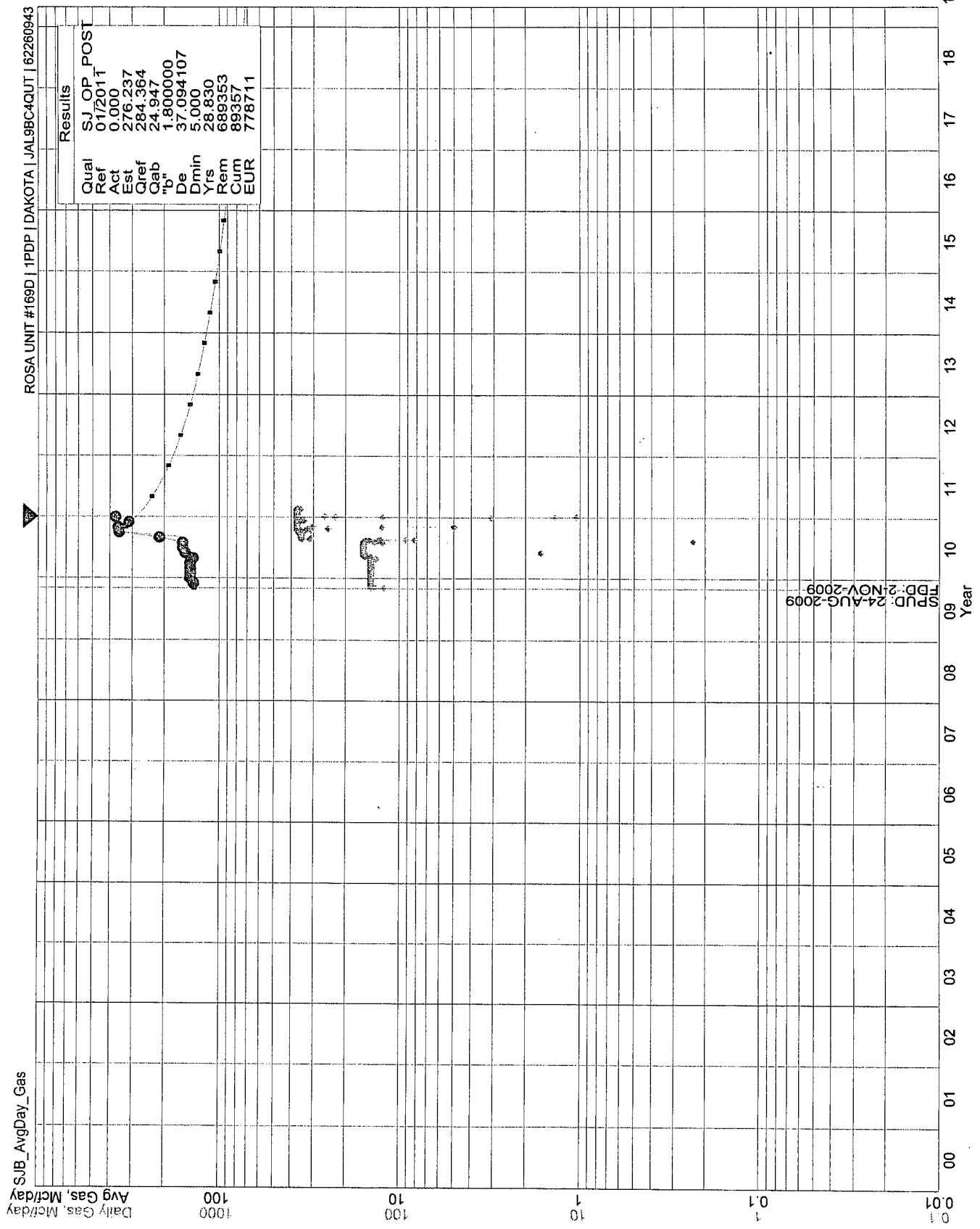
A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	TAXABLE CASH FLOW M\$-----	DEPRECIA- TION M\$-----	DEPLETION M\$-----	INTANG. EXPENSED M\$-----	INTEREST PAID & CAP M\$-----	TAXABLE INCOME M\$-----	TAX CREDIT M\$-----	TAXES PAYABLE M\$-----	CASH FLOW ATA M\$-----	8.0% CUM. DISC ATA M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	20.083	10.949	0.000	387.141	0.000	-378.007	0.000	-132.302	-617.843	-532.263
12-2010	201.108	75.067	0.000	0.000	0.000	126.041	0.000	44.114	156.994	-406.027
12-2011	272.382	84.879	0.000	0.000	0.000	187.503	0.000	65.626	206.756	-252.093
12-2012	191.630	60.617	0.000	0.000	0.000	131.013	0.000	45.855	145.776	-151.600
12-2013	154.379	43.302	0.000	0.000	0.000	111.077	0.000	38.877	115.502	-77.875
12-2014	131.817	34.197	0.000	0.000	0.000	97.620	0.000	34.167	97.650	-20.161
12-2015	116.316	34.184	0.000	0.000	0.000	82.132	0.000	28.746	87.570	27.761
12-2016	104.844	34.197	0.000	0.000	0.000	70.647	0.000	24.727	80.118	68.357
12-2017	95.923	5.695	0.000	0.000	0.000	90.228	0.000	31.580	64.343	98.545
12-2018	88.736	0.000	0.000	0.000	0.000	88.736	0.000	31.058	57.679	123.602
12-2019	82.790	0.000	0.000	0.000	0.000	82.790	0.000	28.977	53.814	145.248
12-2020	77.769	0.000	0.000	0.000	0.000	77.769	0.000	27.219	50.550	164.075
12-2021	73.406	0.000	0.000	0.000	0.000	73.406	0.000	25.692	47.714	180.529
12-2022	69.344	0.000	0.000	0.000	0.000	69.344	0.000	24.270	45.074	194.922
12-2023	65.485	0.000	0.000	0.000	0.000	65.485	0.000	22.920	42.565	207.507
S TOT	1746.013	383.087	0.000	387.141	0.000	975.785	0.000	341.525	634.260	207.507
AFTER	647.284	0.000	0.000	0.000	0.000	647.284	0.000	226.550	420.735	283.370
TOTAL	2393.298	383.087	0.000	387.141	0.000	1623.069	0.000	568.074	1054.995	283.370

BTAX RATE OF RETURN (PCT)	21.31	ATA RATE OF RETURN (PCT)	18.19
BTAX PAYOUT YEARS	5.88	ATA PAY OUT YEARS	6.27
BTAX PAYOUT YEARS (DISC)	7.00	ATA PAY OUT YEARS (DISC)	7.75
BTAX NET INCOME/INVEST	3.11	ATA NET INCOME/INVEST	2.37
BTAX NET INCOME/INVEST(DISC)	1.71	ATA NET INCOME/INVEST(DISC)	1.43
PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	32.17
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.347
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.698
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	776.134
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	776.134
INITIAL WI (PCT)	93.298	FINAL WI (PCT)	93.299
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	80.761	FINAL NET GAS (PCT)	80.382

PRESENT WORTH PROFILE AND ---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W. FACTOR	B.F.I.T. WORTH	A.F.I.T. WORTH	A.F.I.T. BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	1623.1	1055.0	1623.1
2.00	1178.8	758.6	1053.2
5.00	744.2	467.1	591.2
8.00	472.0	283.4	339.3
10.00	344.9	197.2	230.1
12.00	246.6	130.4	149.2
15.00	137.2	55.9	62.6
18.00	58.8	2.6	2.9
20.00	18.7	-24.7	-26.9
25.00	-52.9	-73.1	-78.3
30.00	-97.7	-103.0	-108.9
35.00	-126.1	-121.4	-127.2
40.00	-144.0	-132.5	-137.8
45.00	-154.8	-138.7	-143.5
50.00	-161.0	-141.7	-145.9



ROSA UNIT COM #169D
BLANCO MV / BASIN MC / BASIN DK

Spud: 08/24/09

Completed: 10/28/09

1st Delivery: 11/02/09

Surface Location:

2395' FSL and 1720' FEL
 NW/4 SE/4 Sec 3 (J), T31N, R06W
 Rio Arriba, NM

Bottom Hole Location:

2206' FSL and 667' FEL
 NE/4 SE/4 Sec 3 (I), T31N, R06W
 Rio Arriba, NM

Elevation: 6355' GR

API # 30-039-30755

Top	MD Depth	TVD Depth
Lewis	3673'	3482'
Cliffhouse Ss.	5576'	5384'
Point Lookout	5820'	5628'
Mancos	6296'	6104'
Graneros	7926'	7734'
Dakota	8053'	7861'

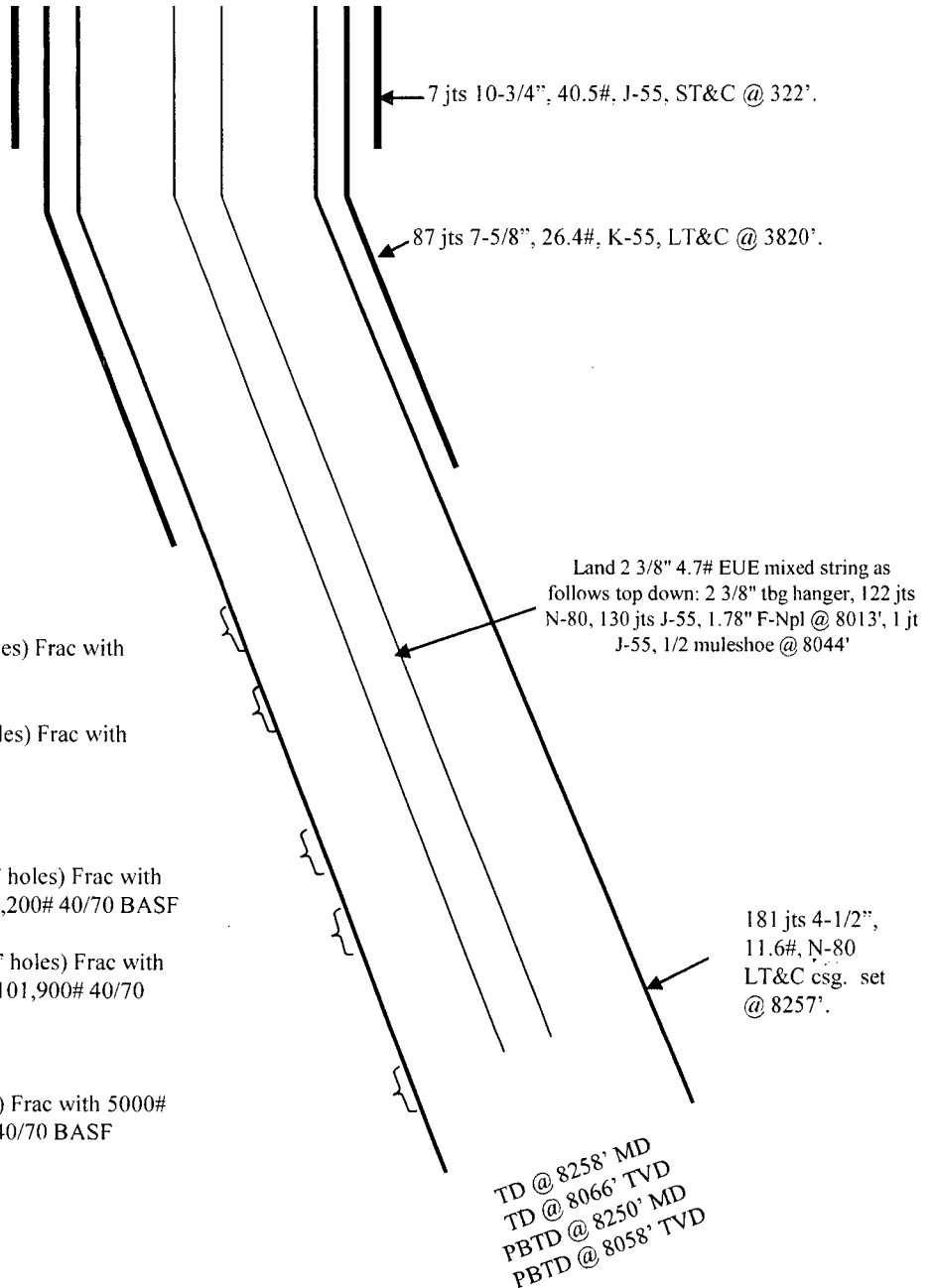
Upper MV: 5582'-5778' (54, 0.34" holes) Frac with 83,000# 20/40 mesh BASF

Lower MV: 5820'-6198' (65, 0.34" holes) Frac with 77,600# 20/40 mesh BASF

Upper Mancos: 7020'-7250' (87, 0.34" holes) Frac with 5000# 100 mesh BASF followed w/103,200# 40/70 BASF

Lower Mancos: 7316'-7598' (93, 0.34" holes) Frac with 5000# 100 mesh BASF followed with 101,900# 40/70 BASF

Dakota: 8054'-8236' (132, 0.34" holes) Frac with 5000# 100 mesh BASF followed w/116,300# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	595 sxs	1469 cu.ft.	Surface
6-3/4"	4-1/2", 11.6#	590 sxs	826 cu.ft.	4520' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30755	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17212	⁸ Property Name ROSA UNIT COM.	⁹ Well Number 169D

II. ¹⁰ Surface Location

UL or lot no. J	Section 3	Township 31N	Range 6W	Lot.Idn	Feet from the 2395	North/South Line SOUTH	Feet from the 1720	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. I	Section 3	Township 31N	Range 6W	Lot Idn	Feet from the 2206	North/South line SOUTH	Feet from the 667	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

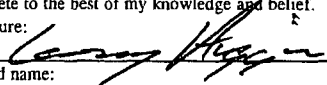
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD NOV 16 '09

IV. Well Completion Data NOTE: Commingled with MV & MC

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 8-24-09	²² Ready Date 10-28-09	²³ TD 8258' MD	²⁴ PBDT 8250' MD	²⁵ Perforations 8054' - 8236'	²⁶ DHC, MC AZT-3264
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	322'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3820'	595 sx - surface		
6-3/4"	4 1/2", 11.6#, N-80	8257'	590 sx - 4520' (CBL)		
	2.375", 4.7#, J-55 & N-80	8044'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 10-26-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 310 lb
³⁷ Choke Size 3/4"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 1002 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			11-16-09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by:  11-16-09		
Title: Drig COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: NOV 16 2009		
Date: 11-16-09 10-30-09		Phone: 505-634-4208			

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078772

6. IF INDIAN ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

NMM- 78407X-DK

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit COM #169D

3. ADDRESS AND TELEPHONE NO.

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

9. API WELL NO.

30-039-30755-0001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 2395' FSL & 1720' FEL, sec 3, T31N, R6W

At top production interval reported below: 2206' FSL & 667' FEL, sec 3, T31N, R6W

At total depth: Same

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA

Sec 3, T31N, R6W

12. COUNTY OR

Rio Arriba

13. STATE

New Mexico

15. DATE

SPUDDED

8-24-09

16. DATE T.D.

REACHED

9-10-09

17. DATE COMPLETED (READY TO PRODUCE)

10-28-09

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*

6355' GR

19. ELEVATION CASING HEAD

20. TOTAL DEPTH, MD & TVD

8258' MD / 8066' TVD

21. PLUG, BACK T.D., MD & TVD

8250' MD / 8058' TVD

22. IF MULTICOMP.,

HOW MANY

3*

23. INTERVALS

DRILLED BY

ROTARY TOOLS

x

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 8054'-8236' MD

Commingled with MV & MC per AZT-3264

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

Pulsed Neutron Decay Log and CBL

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
10-3/4", J-55	40.5#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3820'	9-7/8"	595 SX - SURFACE	
4-1/2", N-80	11.6#	8257'	6-3/4"	590 SX - 4520' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80EUE 8rd	8044'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 132, 0.34" holes

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

DEPTH INTERVAL (MD)

AMOUNT AND KIND OF MATERIAL USED

8054'-8236'

Fracced with 5000# 100 mesh BASF followed with 116,300# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing ✓				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-26-09	2 hr	1/4"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	310 lb				1002 mc/d ✓		

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

TEST WITNESSED BY: Buddy Banks

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

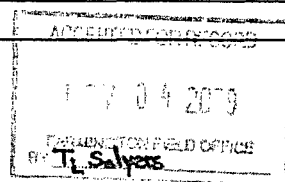
SIGNED

Larry Haggard

TITLE Drlg COM

DATE 10-30-09

OPERATOR



37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents hereof, 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	TOP		TRUE VERTICAL DEPTH
					NAME	MEASURED DEPTH	
					LEWIS	3673'	3482'
					CLIFFHOUSE	5576'	5384'
					POINT LOOKOUT	5820'	5628'
					MANCOS	6296'	6104'
					GRANEROS	7926'	7734'
					DAKOTA	8053'	7861'

February 24, 2011

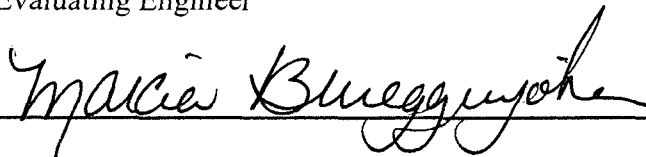
The ROSA Unit #180D DAKOTA Formation Well (commercial) is located 935 feet from the South Line and 1935 feet from the West Line, Section 9 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on August 28, 2009 and completed in the Dakota formation on November 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8272' to 8390'. This well has a 2.375" tubing string. This well was shut in with a SICP of 540 psig. On November 23, 2009 the well was tested and after flowing for 1 hour through a 24/64" choke on the 2.375" tubing, the well gauged 445 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 10.01% and is therefore determined commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #180D | 1PDP | DAKOTA | JAL9BE5PVT | 62262226
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 211 240 M/D 2 MOS EXP X	SJ_OP_POST
" 240 228 M/D 5 IMO EXP X	SJ_OP_POST
" 200 184 M/D 3 IMO EXP X	SJ_OP_POST
" 140 X M/D 5 EXP B/1.8 25	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 407.88266 426.24221 M\$G 11/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #180D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 16:23:30
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA				INITIAL CALCULATED DATA					
	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	12/2009									
401 GAS	211.00	240.00	M/D	2.00 MOS	EXP X	13.699	1/2010	-116.5572	6418.	7300.
402 "	240.00	228.00	M/D	5.00 IMO	EXP X	49.279	6/2010	11.5828	7300.	6935.
403 "	200.00	184.00	M/D	3.00 IMO	EXP X	66.789	9/2010	28.3606	6083.	5597.
404 "	140.00	X	M/D	5.00 EXP	B/1.8 25.00	308.134	1/2020	25.0000	4258.	1408.
405 "	X	X	M/D	30.00 YRS	EXP 5.00	518.422	11/2039	5.0000	1408.	509.

500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010		
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	11/2039	5.750 5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	11/2039	0.047 0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	11/2039	0.037 0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	11/2039	700.000 700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	1.000 1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865 0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865 0.865

OVERLAYS	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	11/2039		
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	11/2039		
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00	11/2039		
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	11/2039		
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	11/2039		
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	11/2039		
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	11/2039		

914 GAS	01/2009	0	0	0	0	0	0	0	6341.15	6666.96	7445.04	#	20.453	1/2010
915 "	X	6476.88	7440.96	7126.08	7078.8	6026.87	5988.2	#	60.591	7/2010				
916 "	X	5704.4	4225	4288.6	5065.2	#			79.874	11/2010				

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	407.88	426.24	M\$G	11/2009 AD	ESC INV	834.125	11/2009	0	834.1	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.99									
202 WELLS	0.00		1.00							
203 CUMO, MB	0.00		CUMG, MMF	0.00		CUML, MB				
250 LOSS	NO									

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #180D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:23:30
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF			OIL, MBBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	13.008			0.000	5.767			0.00	3.396	1.0	0.000	19.586	19.586
12-2010	0.000	70.823			0.000	61.262			0.00	3.634	1.0	0.000	222.632	222.632
12-2011	0.000	40.965			0.000	35.434			0.00	4.746	1.0	0.000	168.168	168.168
12-2012	0.000	33.198			0.000	28.717			0.00	4.746	1.0	0.000	136.286	136.286
12-2013	0.000	28.530			0.000	24.678			0.00	4.746	1.0	0.000	117.121	117.121
12-2014	0.000	25.335			0.000	21.915			0.00	4.746	1.0	0.000	104.007	104.007
12-2015	0.000	22.977			0.000	19.875			0.00	4.746	1.0	0.000	94.327	94.327
12-2016	0.000	21.147			0.000	18.292			0.00	4.746	1.0	0.000	86.812	86.812
12-2017	0.000	19.674			0.000	17.018			0.00	4.746	1.0	0.000	80.767	80.767
12-2018	0.000	18.457			0.000	15.965			0.00	4.746	1.0	0.000	75.770	75.770
12-2019	0.000	17.430			0.000	15.077			0.00	4.746	1.0	0.000	71.553	71.553
12-2020	0.000	16.540			0.000	14.307			0.00	4.746	1.0	0.000	67.898	67.898
12-2021	0.000	15.713			0.000	13.591			0.00	4.746	1.0	0.000	64.503	64.503
12-2022	0.000	14.927			0.000	12.912			0.00	4.746	1.0	0.000	61.278	61.278
12-2023	0.000	14.181			0.000	12.266			0.00	4.746	1.0	0.000	58.214	58.214
S TOT	0.000	372.904			0.000	317.077			0.00	4.507	1.0	0.000	1428.924	1428.924
AFTER	0.000	150.339			0.000	130.043			0.00	4.746	1.0	0.000	617.175	617.175
TOTAL	0.000	523.244			0.000	447.121			0.00	4.576	1.0	0.000	2046.099	2046.099
--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%				
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. BTAX, M\$	DISC M\$		
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2009	1.619	0.700	0.000	17.267	407.883	426.242	0.000	834.125	-816.858	-691.018				
12-2010	18.406	8.400	0.000	195.826	0.000	0.000	0.000	0.000	195.826	-533.558				
12-2011	13.903	8.400	0.000	145.865	0.000	0.000	0.000	0.000	145.865	-424.959				
12-2012	11.267	8.400	0.000	116.619	0.000	0.000	0.000	0.000	116.619	-344.565				
12-2013	9.683	8.400	0.000	99.038	0.000	0.000	0.000	0.000	99.038	-281.349				
12-2014	8.599	8.400	0.000	87.008	0.000	0.000	0.000	0.000	87.008	-229.925				
12-2015	7.798	8.400	0.000	78.128	0.000	0.000	0.000	0.000	78.128	-187.170				
12-2016	7.177	8.400	0.000	71.235	0.000	0.000	0.000	0.000	71.235	-151.074				
12-2017	6.677	8.400	0.000	65.689	0.000	0.000	0.000	0.000	65.689	-120.255				
12-2018	6.264	8.400	0.000	61.106	0.000	0.000	0.000	0.000	61.106	-93.709				
12-2019	5.916	8.400	0.000	57.238	0.000	0.000	0.000	0.000	57.238	-70.686				
12-2020	5.613	8.400	0.000	53.885	0.000	0.000	0.000	0.000	53.885	-50.616				
12-2021	5.333	8.400	0.000	50.771	0.000	0.000	0.000	0.000	50.771	-33.108				
12-2022	5.066	8.400	0.000	47.812	0.000	0.000	0.000	0.000	47.812	-17.841				
12-2023	4.813	8.400	0.000	45.002	0.000	0.000	0.000	0.000	45.002	-4.536				
S TOT	118.133	118.300	0.000	1192.490	407.883	426.242	0.000	834.125	358.366	-4.536				
AFTER	51.024	133.700	0.000	432.451	0.000	0.000	0.000	0.000	432.451	73.937				
TOTAL	169.157	252.000	0.000	1624.941	407.883	426.242	0.000	834.125	790.816	73.937				

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #180D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:23:30
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

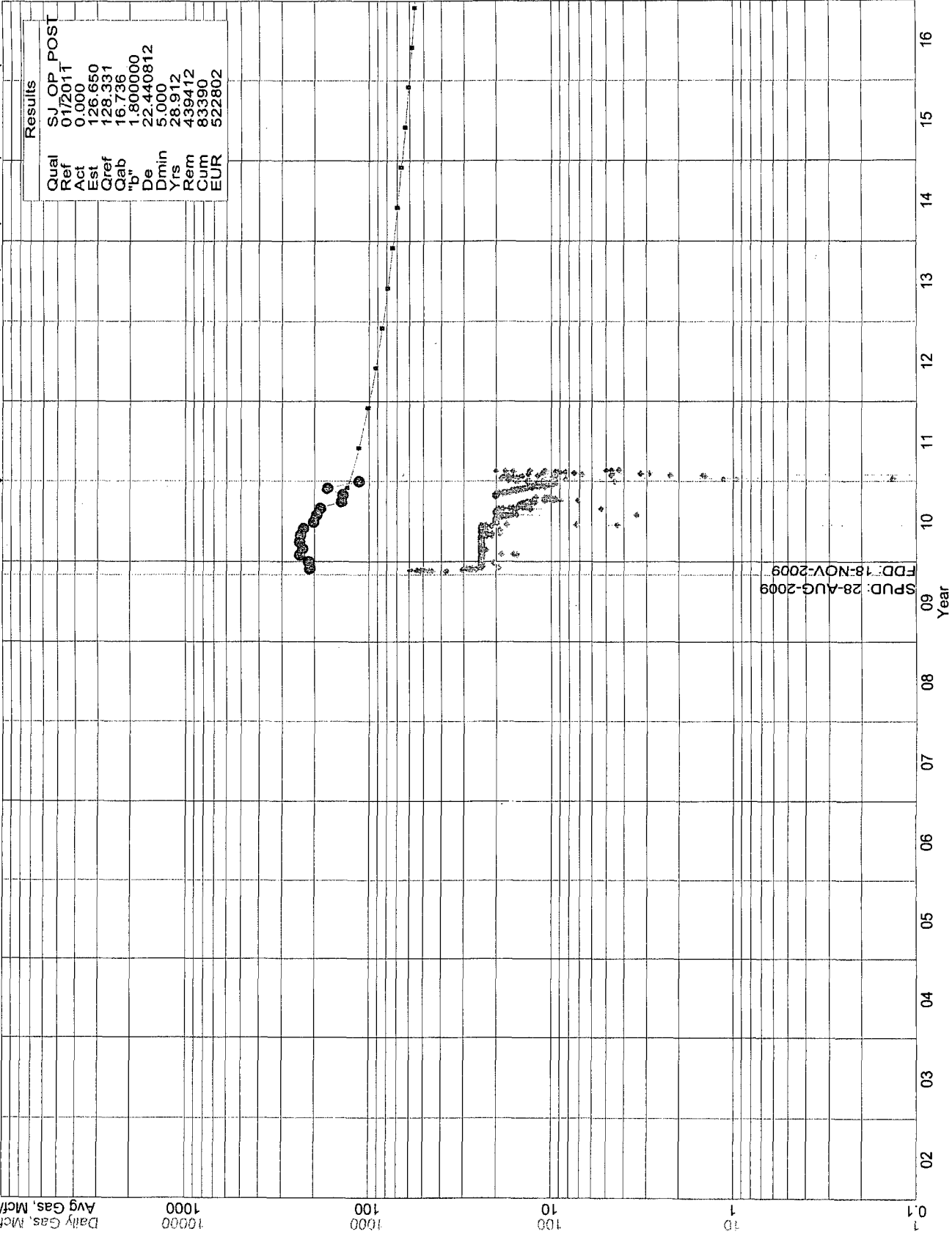
--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	17.267	6.476	0.000	426.242	0.000	-415.451	0.000	-145.408	-671.450	-564.745
12-2010	195.826	85.107	0.000	0.000	0.000	110.719	0.000	38.752	157.075	-438.445
12-2011	145.865	90.373	0.000	0.000	0.000	55.492	0.000	19.422	126.443	-344.306
12-2012	116.619	64.541	0.000	0.000	0.000	52.078	0.000	18.227	98.392	-276.477
12-2013	99.038	46.104	0.000	0.000	0.000	52.934	0.000	18.527	80.511	-225.087
12-2014	87.008	36.410	0.000	0.000	0.000	50.598	0.000	17.709	69.299	-184.129
12-2015	78.128	36.397	0.000	0.000	0.000	41.732	0.000	14.606	63.522	-149.367
12-2016	71.235	36.410	0.000	0.000	0.000	34.825	0.000	12.189	59.047	-119.448
12-2017	65.689	6.064	0.000	0.000	0.000	59.626	0.000	20.869	44.820	-98.419
12-2018	61.106	0.000	0.000	0.000	0.000	61.106	0.000	21.387	39.719	-81.165
12-2019	57.238	0.000	0.000	0.000	0.000	57.238	0.000	20.033	37.205	-66.199
12-2020	53.885	0.000	0.000	0.000	0.000	53.885	0.000	18.860	35.025	-53.154
12-2021	50.771	0.000	0.000	0.000	0.000	50.771	0.000	17.770	33.001	-41.774
12-2022	47.812	0.000	0.000	0.000	0.000	47.812	0.000	16.734	31.078	-31.850
12-2023	45.002	0.000	0.000	0.000	0.000	45.002	0.000	15.751	29.251	-23.202
S TOT	1192.490	407.883	0.000	426.242	0.000	358.366	0.000	125.428	232.938	-23.202
AFTER	432.451	0.000	0.000	0.000	0.000	432.451	0.000	151.358	281.093	27.805
TOTAL	1624.941	407.883	0.000	426.242	0.000	790.816	0.000	276.786	514.031	27.805

BTAX RATE OF RETURN (PCT)	10.01	ATAx RATE OF RETURN (PCT)	9.10
BTAX PAYOUT YEARS	9.69	ATAx PAY OUT YEARS	9.72
BTAX PAYOUT YEARS (DISC)	16.72	ATAx PAY OUT YEARS (DISC)	20.02
BTAX NET INCOME/INVEST	1.95	ATAx NET INCOME/INVEST	1.62
BTAX NET INCOME/INVEST(DISC)	1.10	ATAx NET INCOME/INVEST(DISC)	1.04
PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	32.25
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.211
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.746
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	-6.341
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	523.244
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	516.902
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	90.944	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	790.8	514.0	790.8
2.00	508.3	323.6	449.2
5.00	237.6	139.9	177.1
8.00	73.9	27.8	33.3
10.00	0.2	-22.9	-26.8
12.00	-54.7	-60.9	-69.8
15.00	-112.9	-101.3	-113.4
18.00	-151.6	-128.0	-140.9
20.00	-169.9	-140.6	-153.5
25.00	-198.5	-160.1	-171.7
30.00	-211.7	-168.6	-178.6
35.00	-216.1	-170.8	-179.3
40.00	-215.3	-169.2	-176.4
45.00	-211.4	-165.5	-171.5
50.00	-205.7	-160.4	-165.5

SJB_AvgDay_Gas

Daily Gas, Mcf/day



ROSA UNIT #180D
BLANCO MV/BASIN MC/BASIN DK

Surface Location:

935' FSL and 1935' FWL
 SE/4 SW/4 Sec 9 (N), T31N, R06W
 San Juan, NM

Bottom Hole Location:

2303' FSL and 1863' FWL
 NE/4 SW/4 Sec 9 (K), T31N, R06W
 San Juan, NM

Elevation: 6402' GR
 API # 30-045-34988

Spud: 08/28/09

Completed: 11/24/09

Green comp: 10/22/09

1st Delivery: 12/04/09

Top	MD Depth	TVD Depth
Lewis	3861'	3504'
Cliffhouse Ss.	5778'	5421'
Point Lookout	6020'	5663'
Mancos	6476'	6119'
Graneros	8141'	7784'
Dakota	8271'	7914'

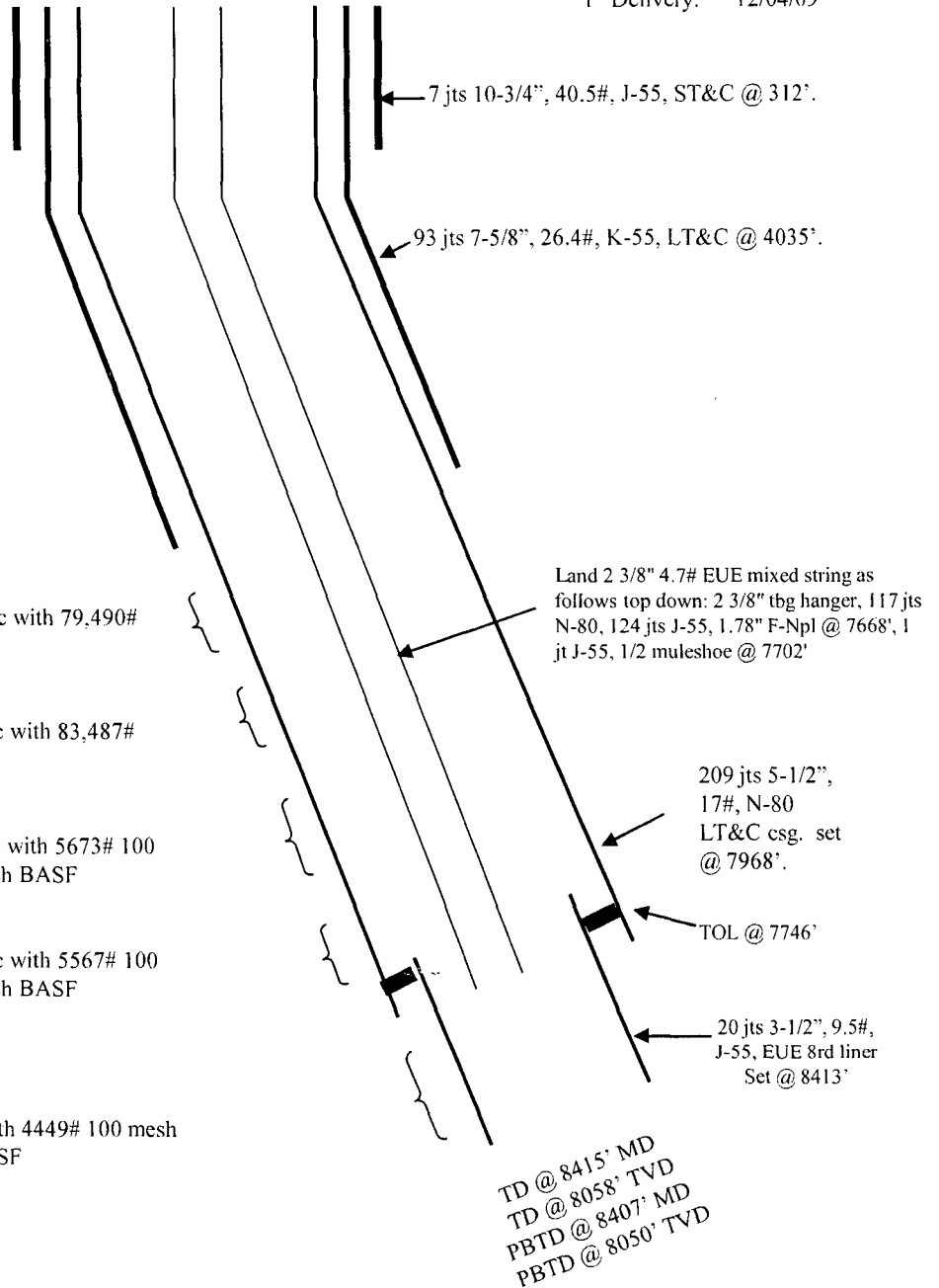
Upper MV: 5778'-5990' (54, 0.34" holes) Frac with 79,490#
 20/40 mesh BASF

Lower MV: 6020'-6418' (73, 0.34" holes) Frac with 83,487#
 20/40 mesh BASF

Upper MC: 7200'-7450' (78, 0.34" holes) Frac with 5673# 100
 mesh BASF followed with 100,534# 40/70 mesh BASF

Lower MC: 7517'-7700' (66, 0.34" holes) Frac with 5567# 100
 mesh BASF followed with 105,281# 40/70 mesh BASF

Dakota: 8272'-8390' (72, 0.32" holes) Frac with 4449# 100 mesh
 BASF followed with 115,877# 40/70 mesh BASF



Hole Size	Casing	Cement	Volume	Top of Cnt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	620 sxs	1538 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	503 cu.ft.	3725' CBL
4-3/4"	3-1/2", 9.5#	110 sxs	139 cu.ft.	7750' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34988	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 180D

II. ¹⁰ Surface Location

Ul or lot no. N	Section 9	Township 31N	Range 6W	Lot Idn	Feet from the 935	North/South Line SOUTH	Feet from the 1935	East/West line WEST	County SAN JUAN

¹¹ Bottom Hole Location

UL or lot no. K	Section 9	Township 31N	Range 6W	Lot Idn	Feet from the 2303	North/South line SOUTH	Feet from the 1863	East/West line WEST	County SAN JUAN
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ - 85267	²⁰ O/G/W O
009018		
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD NOV 30 '09

IV. Well Completion Date NOTE: Commingled with Mancos and Mesaverde

²¹ Spud Date W 8-28-09	²² Ready Date 11-9-09	²³ TD 8415' MD	²⁴ PBD 8407' MD	²⁵ Perforations 8272' - 8390'	²⁶ DHC, MC AZT-3267
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 312'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4035'	620 sx - surface		
6-3/4"	5 1/2", 17#, N-80	7968'	360 sx - 3725' (CBL)		
4-3/4"	3-1/2", 9.5#, j-55	7746'-8413'	110 SX - 7750' (CBL)		
	2.375", 4.7#, J-55 & N-80	7702'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-23-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 540 lbs
³⁷ Choke Size 24/64"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 445 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			12-1-09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles T. ...</i> 12-03-09		
Title: Drilg COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: DEC 03 2009		
Date: 11-25-09	Phone: 505-634-4208		<i>Bern apul</i>		

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

5 LEASE DESIGNATION AND LEASE NO.
NMSF-078765

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: 1 OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

4. TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

2. NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 935' FSI & 1935' FWL, sec 9, T31N, R6W
At top production interval reported below: 2303' FSI & 1863' TWL, sec 9, T31N, R6W
At total depth: Same

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO.

Rosa Unit #1801

9 API WELL NO.

30-045-34988 - 0001

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11 SEC. T, R, M, OR BLOCK AND
SURVEY OR AREA

Sec 9, T31N, R6W

12 COUNTY OR

San Juan

13 STATE

New Mexico

19. ELEVATION CASINGHEAD

15. DATE

SPUDED

8-28-09

16. DATE T.D.

REACHED

9-11-09

17. DATE COMPLETED (READY TO PRODUCE)

11-24-09

18. ELEVATIONS (DR, RKB, RT, OR, ETC.)

6402' GR

20. TOTAL DEPTH (MD & TVD)

8415' MD / 8058' TVD

21. PLUG BACK T.D., MD & TVD

8407' MD

22. IF MULTICOMP

HOW MANY

3*

23. INTERVALS

DRIILLED BY

ROTARY TOOLS

CABLE TOOLS

X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 8272' - 8390'

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

Pulsed Neutron Decay Log and CBL

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
10-3/4", J-55	40.5#	312'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	4035'	9-7/8"	620 SX - SURFACE	
5-1/2", N-80	17.0#	7968'	6-3/4"	360 SX - 3725' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	7746'	8413'	110 ss TOC 60 7750' CBL		2-3/8", 4.7#, J-55 & N-80 EUE 8rd	7702'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 72, 0.32" holes ✓

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8272'-8390'	Traced with 4449# 100 mesh BASF followed with 115,877# 40/70 mesh BASF

33. PRODUCTION: Commingles with Mesaverde and Mancos per AZT -3267

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SH)	
		Flowing ✓				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
11-23-09 ✓	1 hr	24-64"					
FLOWING PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	540 lbs				445 mcf/d ✓		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Craig Ward

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional FLOW report

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

SIGNED

Larry Hegg

TITLE

Drilg COM

DATE

11-28-09

OPERATOR

T. L. Salas

17 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof; core intervals, and all drill-stem tests, including depth interval tested, column used, time tool open, flowing and shut-in pressures, and recovery)						18 GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		NAME	TOP		TRUE VERTICAL DEPTH
						MEASURED DEPTH	NAME	
						3861'	LEWIS	3504'
						5778'	CLIFFHOUSE	5421'
						6020'	POINT LOOKOUT	5663'
						6476'	MANCOS	6119'
						8141'	GRANEROS	7784'
						8271'	DAKOTA	7914'



March 2, 2011

Bureau of Land Management (3 copies)
Farmington Resource Area
Attn: Wayne Townsend
1235 La Plata Highway
Farmington, New Mexico 87401

State of New Mexico (2 copies)
Commissioner of Public Lands
Attn: Mr. Pete Martinez
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico (2 copies)
Oil Conservation Division
Attn: Ed Martin
1200 South St. Francis Drive
P.O. Box 2308
Santa Fe, New Mexico 87504-2308

Re: Rosa Unit I, Sec. No 587
Rosa Dakota Formation
San Juan and Rio Arriba Counties, New Mexico
NOTICE OF COMPLETION NON- COMMERCIAL WELLS

Gentlemen:

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement I Sec. No. 587, Williams Production Company, LLC, as Unit Operator, has determined that the Rosa Unit #5C, #16D, #19D, #20D, #41C, #75D, #89D, #90C, #91D, #138D, #149C, #152D, #154B, #156D, #164C, #181D, #183C, #187C, #189, are not capable of producing unitized substances in paying quantities from the Dakota Formation.

WELLDATA

The ROSA Unit #5C DAKOTA Formation Well (non-commercial) is located 1845 feet from the South Line and 1735 feet from the East Line, Section 26 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 11, 2008 and completed in the Dakota formation on August 1, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 7887' to 8084'. This well has a 2.875" tubing string. This well was shut in with a SICP of 3.0 psig. On July 28, 2008 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 464 MCFD. This completion was shut in for almost two years to allow the Mancos formation to produce solely. As a result, the revised test date and delivery for this well is May 9, 2010 per agreement with the BLM.

7887' to 8084'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.08% and is therefore determined non-commercial.

The ROSA Unit #16D DAKOTA Formation Well (non-commercial) is located 1015 feet from the South Line and 1300 feet from the West Line, Section 14 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 7, 2009 and completed in the Dakota formation on September 19, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8135' to 8228'. This well has a 2.375" tubing string. This well was shut in with a SICP of 220 psig. On September 18, 2009 the well was tested and after flowing for 2 hours through a 2" choke on the 2.375" tubing, the well gauged 316 MCFD.

8135' to 8228'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #19D DAKOTA Formation Well (non-commercial) is located 1980 feet from the South Line and 660 feet from the West Line, Section 24 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 25, 2009 and completed in the Dakota formation on November 16, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8031' to 8149'. This well has a 2.375" tubing string. This well was shut in with a SICP of 400 psig. On November 13, 2009 the well was tested and after flowing for 2 hours through a 32/64" choke on the 2.375" tubing, the well gauged 575 MCFD.

8031' to 8149'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

WELLDATA

The ROSA Unit #20D DAKOTA Formation Well (non-commercial) is located 1485 feet from the North Line and 1525 feet from the East Line, Section 14 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 9, 2009 and completed in the Dakota formation on November 23, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8120' to 8334'. This well has a 2.375" tubing string. This well was shut in with a SICP of 400 psig. On November 22, 2009 the well was tested and after flowing for 3 hours through a 1/2" choke on the 2.375" tubing, the well gauged 601 MCFD.

8120' TO 8334'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #41C DAKOTA Formation Well (non-commercial) is located 850 feet from the North Line and 1980 feet from the East Line, Section 8 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 19, 2009 and completed in the Dakota formation on August 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8490' to 8666'. This well has a 2.375" tubing string. This well was shut in with a SICP of 525 psig. On August 28, 2009 the well was tested and after flowing for 1 hour through a 24/64" choke on the 2.375" tubing, the well gauged 696 MCFD.

8490' to 8666'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 4.32% and is therefore determined non-commercial.

The ROSA Unit #75D DAKOTA Formation Well (non-commercial) is located 1775 feet from the South Line and 605 feet from the West Line, Section 10 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on June 18, 2009 and completed in the Dakota formation on September 23, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8086' to 8184'. This well has a 2.375" tubing string. This well was shut in with a SICP of 350 psig. On September 23, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 1131 MCFD.

8086' to 8184'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

WELL DATA

The ROSA Unit #89D DAKOTA Formation Well (non-commercial) is located 600 feet from the North Line and 645 feet from the East Line, Section 34 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 21, 2009 and completed in the Dakota formation on September 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8482' to 8600'. This well has a 2.375" tubing string. This well was shut in with a SICP of 180 psig. On September 26, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 259 MCFD.

8482' to 8600'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #90C DAKOTA Formation Well (non-commercial) is located 1655 feet from the North Line and 1855 feet from the East Line, Section 33 Township 32 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on October 1, 2009 and completed in the Dakota formation on November 21, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8300' to 8392'. This well has a 2.375" tubing string. This well was shut in with a SICP of 620 psig. On November 19, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 892 MCFD.

8300' to 8392'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #91D DAKOTA Formation Well (non-commercial) is located 1055 feet from the South Line and 250 feet from the East Line, Section 35 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 22, 2009 and completed in the Dakota formation on October 27, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8062' to 8158'. This well has a 2.375" tubing string. This well was shut in with a SICP of 300 psig. On October 25, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 451 MCFD.

8062' to 8158'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

WELLDATA

The ROSA Unit #138D DAKOTA Formation Well (non-commercial) is located 2280 feet from the North Line and 820 feet from the East Line, Section 17 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on May 30, 2009 and completed in the Dakota formation on August 11, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8255' to 8339'. This well has a 2.375" tubing string. This well was shut in with a SICP of 625 psig. On August 11, 2009 the well was tested and after flowing for 2 hours through a 24/64" choke on the 2.375" tubing, the well gauged 900 MCFD.

8255' to 8339'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #149C DAKOTA Formation Well (non-commercial) is located 1910 feet from the North Line and 2225 feet from the West Line, Section 12 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 25, 2009 and completed in the Dakota formation on September 19, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8052' to 8158'. This well has a 2.375" tubing string. This well was shut in with a SICP of 300 psig. On September 17, 2009 the well was tested and after flowing for 2 hours through a 2" choke on the 2.375" tubing, the well gauged 431 MCFD.

8052' TO 8158'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #152D DAKOTA Formation Well (non-commercial) is located 550 feet from the South Line and 450 feet from the West Line, Section 36 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 6, 2009 and completed in the Dakota formation on September 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7912' to 8037'. This well has a 2.375" tubing string. This well was shut in with a SICP of 560 psig. On September 23, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 840 MCFD.

7912' to 8037'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

WELLDATA

The ROSA Unit #154B DAKOTA Formation Well (non-commercial) is located 990 feet from the South Line and 880 feet from the East Line, Section 7 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 28, 2009 and completed in the Dakota formation on November 17, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8172' to 8254'. This well has a 2.375" tubing string. This well was shut in with a SICP of 440 psig. On November 15, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 632 MCFD.

8172' to 8254'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #156D DAKOTA Formation Well (non-commercial) is located 1075 feet from the North Line and 995 feet from the East Line, Section 9 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on July 4, 2009 and completed in the Dakota formation on September 26, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8172' to 8300'. This well has a 2.375" tubing string. This well was shut in with a SICP of 550 psig. On September 25, 2009 the well was tested and after flowing for 3 hours through a 1/2" choke on the 2.375" tubing, the well gauged 791 MCFD.

8172' to 8300'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 1.15% and is therefore determined non-commercial.

The ROSA Unit #164C DAKOTA Formation Well (non-commercial) is located 1840 feet from the South Line and 865 feet from the East Line, Section 1 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 1, 2009 and completed in the Dakota formation on June 4, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8303' to 8441'. This well has a 2.375" tubing string. This well was shut in with a SICP of 1.5 psig. On June 4, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 752 MCFD.

8303' to 8441'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

WELLDATA

The ROSA Unit #181D DAKOTA Formation Well (non-commercial) is located 1230 feet from the North Line and 730 feet from the East Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on October 2, 2009 and completed in the Dakota formation on November 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8180' to 8258'. This well has a 2.375" tubing string. This well was shut in with a SICP of 450 psig. On November 22, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 646 MCFD.

8180' to 8258'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The ROSA Unit #183C DAKOTA Formation Well (non-commercial) is located 2330 feet from the North Line and 305 feet from the East Line, Section 19 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 24, 2009 and completed in the Dakota formation on October 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7880' to 8002'. This well has a 2.375" tubing string. This well was shut in with a SICP of 450 psig. On June 25, 2008 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 647 MCFD.

7880' to 8002'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

The Rosa Unit #187C Dakota Well (Non-commercial) is located 1090 feet from the South Line and 922 feet from the West Line, Section 21 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 20, 2008, and completed in the Dakota formation on September 18, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 8414' to 8522'. This well has a 2.875" tubing string. This well was shut in with a SICP of XX psig. On September 16, 2008 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 464 MCFD.

8414' to 8522'

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0% and is therefore determined (non-)commercial.

The ROSA Unit #189 DAKOTA Formation Well (non-commercial) is located 1455 feet from the North Line and 1780 feet from the East Line, Section 21 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 20, 2009 and completed in the Dakota formation on August 1, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8148' to 8244'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On July 21, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 354 MCFD.

8148' to 8244'

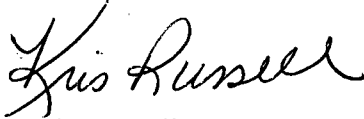
Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

If these determinations meet with your approval, please indicate such approval in the space provided and return an approved copy for our files.

The Well Data, Reserves and Economics are attached.

This information is also being sent to the Rosa Unit working interest owners on the attached sheet.

Sincerely,



Kris Russell
Land Data Specialist
Williams Production Company, LLC
P.O. Box 3102
Tulsa, OK 74101
918/573-6181
Kris.russell@williams.com

APPROVED _____ DATE _____

Assistant District Manager, Minerals
Bureau of Land Management
Subject to like approval by the
Commission of Public Lands
And the Oil Conservation Commission

APPROVED _____ DATE _____

Commissioner of Public Lands
Subject to like approval by the
Bureau of Land Management
And The Commissioner of Public Lands

APPROVED _____ DATE _____

Oil Conservation Commission
Subject to like approval by the
Bureau of Land Management
And The Commissioner of Public Lands

The forgoing is the approval of Notice of Completion of non-commercial wells #5C, #16D, #19D, #20D, #41C, #75D, #89D, #90C, #91D, #138D, #149C, #152D, #154B, #156D, #164C, #181D, #183C, #187C, #189 Dakota formation wells.

WORKING INTEREST OWNERS
ROSA UNIT

BP AMERICA PRODUCTION CO.
ATTN: DONNA JONES
P.O. BOX 3092
HOUSTON, TX 77253

SCHULTZ MANAGEMENT, LTD.
500 N. AKARD, SUITE 2940
DALLAS, TX 75201

MS. ELIZABETH T. CALLOWAY
P.O. BOX 191767
DALLAS, TX 75219-1767

FRED E. TURNER, LLC
4925 GREENVILLE AVE., SUITE 852
DALLAS, TX 75206-4079

J. GLENN TURNER, JR. LLC
4809 COLE AVE., SUITE 212
DALLAS, TX 75205

XTO ENERGY, INC.
ATTN: EDWIN S. RYAN, JR.
810 HOUSTON STREET, STE 2000
FORT WORTH, TX 76102-6298

MARY FRANCES TURNER, JR TRUST
ATTN: SHERI ANDERSON
TX1-2931
P O BOX 660197
DALLAS, TX 75266-0197

MR. JOHN TURNER
PO BOX 329
PORT ARANSAS, TX 78373

PATRICIA P. SCHIEFFER TRUST, BANK OF AMERICA, N.A. AGT
ATTN: BILL BLEDSOE
P.O. BOX 2546
FORT WORTH, TX 76113-2546

OMIMEX PETROLUEM, INC.
ATTN: CLARK P. STORMS
2001 BEACH ST., SUITE 810
FORT WORTH, TX 76103

MS. VICTORIA WEBB
806 CORDOVA
DALLAS, TX 75223

HENRIETTA E. SCHULTZ, TRUSTEE
500 NORTH AKARD, SUITE 2940
DALLAS, TX 75201

SACRAMENTO MUNICIPAL UTILITIES DISTRICT
ATTN: BARRY BRUNELLE
P. O. BOX 15830
SACRAMENTO, CA 95852-1830

CONOCOPHILLIPS COMPANY
ATTN: ROB HELTON
P. O. BOX 4289
FARMINGTON, NM 87499-4289

March 1, 2011

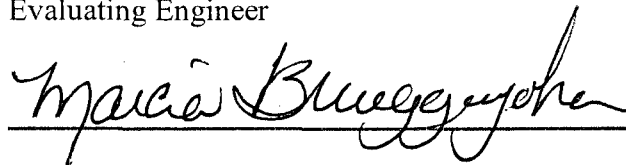
The ROSA Unit #5C DAKOTA Formation Well (non-commercial) is located 1845 feet from the South Line and 1735 feet from the East Line, Section 26 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 11, 2008 and completed in the Dakota formation on August 1, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 7887' to 8084'. This well has a 2.875" tubing string. This well was shut in with a SICP of 3.0 psig. On July 28, 2008 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 464 MCFD. This completion was shut in for almost two years to allow the Mancos formation to produce solely. As a result, the revised test date and delivery for this well is May 9, 2010 per agreement with the BLM.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.08% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann

Manager, Reservoir Engineering

Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #005C | 1PDP | DAKOTA | J7PKN4TRZS | 62234915
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 04/2010	SJ_OP_POST
GAS 200 X M/D 5 EXP B/1.5 60	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 08/2008 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2008 12/2010 #	SJ_OP_POST

PropID: 25079 RSV CAT: 1PDP
 Well Name: ROSA UNIT #005C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 03/01/2011
 Time: 08:43:17
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA								INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	04/2010											
401 GAS	200.00	X	M/D	5.00	EXP	B/1.5	60.00	176.055	11/2022	60.0000	6083.	534.
402 "	X	X	M/D	30.00	YRS	EXP	5.00	249.695	3/2040	5.0000	534.	220.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010			
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00		3/2040		5.750	5.750
600 ATX	4.69	X	%	TO	LIFE	PC	0.00		3/2040		0.047	0.047
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		3/2040		0.037	0.037
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00		3/2040	700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00		3/2040		1.000	1.000
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		3/2040		0.865	0.865
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		3/2040		0.865	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	3/2040				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	3/2040				
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00	3/2040				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	3/2040				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	3/2040				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	3/2040				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	3/2040				
914 GAS	01/2008	0 0 0 0 0 0 0 0	3934	556	0 0 0 0 0 0 0 #			4.490	4/2009			
915 "	X	0 0 0 0 0 0 0 0	0 0 0 0	1284.39	3011.76	3309.6 #		12.096	7/2010			
916 "	X	3676.08	3135.36	1666.56	3357.12	#		23.931	11/2010			
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77	M\$G	08/2008	AD	ESC INV		625.961	8/2008	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12.8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 25079 RSV CAT: 1PDP
 Well Name: ROSA UNIT #005C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 03/01/2011
 TIME : 08:43:17
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	GROSS PRODUCTION----				NET PRODUCTION-----				PRICES-----		NO. OF WELLS	OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		4.490		0.000		0.000		0.00	0.000	1.0	0.000	0.000	0.000
12-2009	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2010	0.000		22.308		0.000		19.297		0.00	3.583	1.0	0.000	69.137	69.137
12-2011	0.000		26.553		0.000		22.968		0.00	4.810	1.0	0.000	110.473	110.473
12-2012	0.000		18.945		0.000		16.387		0.00	4.810	1.0	0.000	78.821	78.821
12-2013	0.000		15.186		0.000		13.136		0.00	4.810	1.0	0.000	63.183	63.183
12-2014	0.000		12.873		0.000		11.135		0.00	4.810	1.0	0.000	53.557	53.557
12-2015	0.000		11.279		0.000		9.756		0.00	4.810	1.0	0.000	46.927	46.927
12-2016	0.000		10.102		0.000		8.739		0.00	4.810	1.0	0.000	42.032	42.032
12-2017	0.000		9.192		0.000		7.951		0.00	4.810	1.0	0.000	38.243	38.243
12-2018	0.000		8.462		0.000		7.320		0.00	4.810	1.0	0.000	35.208	35.208
12-2019	0.000		7.862		0.000		6.801		0.00	4.810	1.0	0.000	32.711	32.711
12-2020	0.000		7.358		0.000		6.365		0.00	4.810	1.0	0.000	30.615	30.615
12-2021	0.000		6.928		0.000		5.993		0.00	4.810	1.0	0.000	28.825	28.825
12-2022	0.000		6.556		0.000		5.671		0.00	4.810	1.0	0.000	27.276	27.276
12-2023	0.000		6.225		0.000		5.385		0.00	4.810	1.0	0.000	25.899	25.899
S TOT	0.000		174.320		0.000		146.903		0.00	4.649	1.0	0.000	682.907	682.907
AFTER	0.000		66.882		0.000		57.853		0.00	4.810	1.0	0.000	278.264	278.264
TOTAL	0.000		241.201		0.000		204.755		0.00	4.694	1.0	0.000	961.171	961.171

--END-- MO-YEAR	-OPERATIONS, M\$-				-CAPITAL COSTS, M\$-				8.0%			
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
12-2008	0.000	0.000	0.000	0.000	125.192	500.769	0.000	625.961	-625.961			-583.323
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		-583.323
12-2010	5.716	6.300	0.000	57.122	0.000	0.000	0.000	0.000	0.000	57.122		-537.392
12-2011	9.133	8.400	0.000	92.940	0.000	0.000	0.000	0.000	0.000	92.940		-468.197
12-2012	6.516	8.400	0.000	63.905	0.000	0.000	0.000	0.000	0.000	63.905		-424.143
12-2013	5.224	8.400	0.000	49.559	0.000	0.000	0.000	0.000	0.000	49.559		-392.509
12-2014	4.428	8.400	0.000	40.729	0.000	0.000	0.000	0.000	0.000	40.729		-368.437
12-2015	3.880	8.400	0.000	34.647	0.000	0.000	0.000	0.000	0.000	34.647		-349.477
12-2016	3.475	8.400	0.000	30.157	0.000	0.000	0.000	0.000	0.000	30.157		-334.196
12-2017	3.162	8.400	0.000	26.681	0.000	0.000	0.000	0.000	0.000	26.681		-321.678
12-2018	2.911	8.400	0.000	23.897	0.000	0.000	0.000	0.000	0.000	23.897		-311.296
12-2019	2.704	8.400	0.000	21.607	0.000	0.000	0.000	0.000	0.000	21.607		-302.605
12-2020	2.531	8.400	0.000	19.684	0.000	0.000	0.000	0.000	0.000	19.684		-295.274
12-2021	2.383	8.400	0.000	18.042	0.000	0.000	0.000	0.000	0.000	18.042		-289.052
12-2022	2.255	8.400	0.000	16.621	0.000	0.000	0.000	0.000	0.000	16.621		-283.745
12-2023	2.141	8.400	0.000	15.358	0.000	0.000	0.000	0.000	0.000	15.358		-279.204
S TOT	56.458	115.500	0.000	510.949	125.192	500.769	0.000	625.961	-115.012			-279.204
AFTER	23.005	136.500	0.000	118.759	0.000	0.000	0.000	0.000	118.759			-256.415
TOTAL	79.463	252.000	0.000	629.708	125.192	500.769	0.000	625.961		3.747		-256.415

PropID: 25079 RSV CAT: 1PDP
 Well Name: ROSA UNIT #005C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 03/01/2011
 TIME : 08:43:17
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	ATAW
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	500.769	0.000	-500.769	0.000	-175.269	-450.692	-418.941
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-418.941
12-2010	57.122	28.110	0.000	0.000	0.000	29.012	0.000	10.154	46.967	-381.176
12-2011	92.940	27.738	0.000	0.000	0.000	65.202	0.000	22.821	70.120	-328.970
12-2012	63.905	19.810	0.000	0.000	0.000	44.095	0.000	15.433	48.471	-295.556
12-2013	49.559	14.151	0.000	0.000	0.000	35.408	0.000	12.393	37.166	-271.832
12-2014	40.729	11.175	0.000	0.000	0.000	29.554	0.000	10.344	30.385	-253.874
12-2015	34.647	11.171	0.000	0.000	0.000	23.476	0.000	8.217	26.431	-239.410
12-2016	30.157	11.175	0.000	0.000	0.000	18.982	0.000	6.644	23.513	-227.496
12-2017	26.681	1.861	0.000	0.000	0.000	24.820	0.000	8.687	17.994	-219.053
12-2018	23.897	0.000	0.000	0.000	0.000	23.897	0.000	8.364	15.533	-212.305
12-2019	21.607	0.000	0.000	0.000	0.000	21.607	0.000	7.562	14.044	-206.656
12-2020	19.684	0.000	0.000	0.000	0.000	19.684	0.000	6.889	12.794	-201.891
12-2021	18.042	0.000	0.000	0.000	0.000	18.042	0.000	6.315	11.727	-197.847
12-2022	16.621	0.000	0.000	0.000	0.000	16.621	0.000	5.817	10.804	-194.397
12-2023	15.358	0.000	0.000	0.000	0.000	15.358	0.000	5.375	9.983	-191.445
S TOT	510.949	125.192	0.000	500.769	0.000	-115.012	0.000	-40.254	-74.758	-191.445
AFTER	118.759	0.000	0.000	0.000	0.000	118.759	0.000	41.566	77.193	-176.632
TOTAL	629.708	125.192	0.000	500.769	0.000	3.747	0.000	1.311	2.435	-176.632

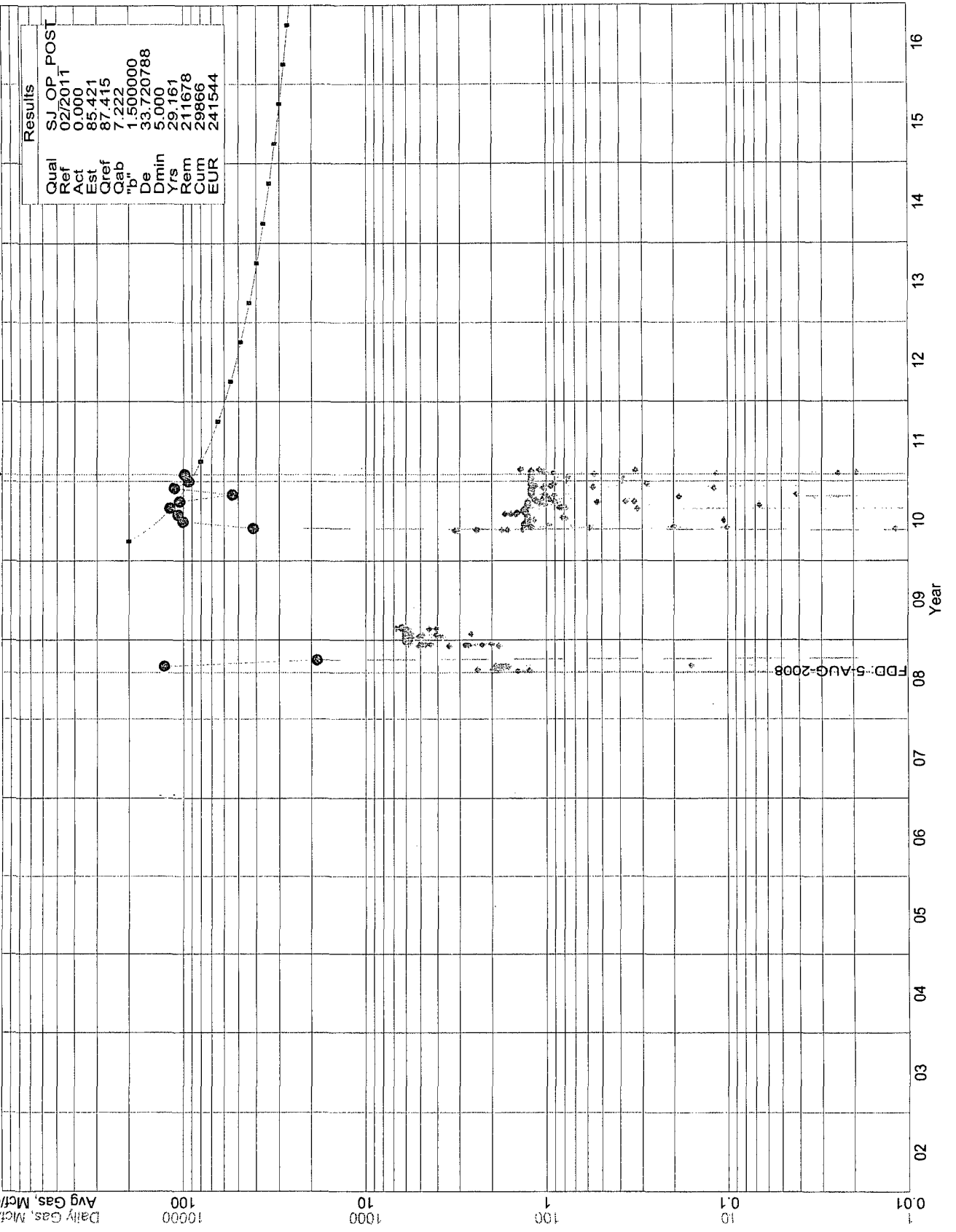
BTAX RATE OF RETURN (PCT)	0.08	ATAW RATE OF RETURN (PCT)	0.07
BTAX PAYOUT YEARS	30.85	ATAW PAY OUT YEARS	30.85
BTAX PAYOUT YEARS (DISC)	32.58	ATAW PAY OUT YEARS (DISC)	32.58
BTAX NET INCOME/INVEST	1.01	ATAW NET INCOME/INVEST	1.00
BTAX NET INCOME/INVEST (DISC)	0.56	ATAW NET INCOME/INVEST (DISC)	0.70

PRESENT WORTH PROFILE AND			
--- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	3.7	2.4	3.7
2.00	-93.9	-64.2	-89.0
5.00	-192.7	-132.2	-167.3
8.00	-256.4	-176.6	-211.4
10.00	-286.5	-197.8	-230.8
12.00	-309.7	-214.3	-245.0
15.00	-335.3	-232.5	-259.8
18.00	-352.9	-245.3	-269.4
20.00	-361.4	-251.5	-273.8
25.00	-375.1	-261.6	-279.8
30.00	-381.4	-266.5	-281.5
35.00	-383.1	-268.0	-280.4
40.00	-381.8	-267.3	-277.7
45.00	-378.6	-265.2	-274.0
50.00	-374.2	-262.1	-269.6

PRODUCTION START DATE	04/2010	PROJECT LIFE (YEARS)	32.58
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	0.000
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.810
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-4.490
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	241.201
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	236.711
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	28.241	FINAL NET GAS (PCT)	86.500



Results	
Qual	SJ_OP_POST
Ref	02/2011
Act	0.000
Est	85.421
Qref	87.415
Qab	7.222
"b"	1.500000
De	33.720788
Dmin	5.000
Yrs	29.161
Rem	211678
Cum	29866
EUR	241544



ROSA UNIT #5C
BLANCO MESAVERDE/LAGUNA SECA GALLUP/BASIN DK

Location: 1845' FSL, 1735' FEL
 NW/4 SE/4 Section 26 (J), T31N, R6W
 Rio Arriba Co., NM
 Elevation: 6419' GR
 API: 30-039-30178

Spud Date 6-11-2008
 Completed 8-1-2008 (DK)
 11-23-2008 (MCS)
 ID'd: 8-5-2008 (DK)

Tops	Depth
Ojo Alamo	2490'
Kirtland	2596'
Pictured Cliffs	3240'
Cliff House	5406'
Point Lookout	5702'
Mancos	6258'
Dakota	7885'

Mesa Verde
 To be completed at later date

Mancos

4th stage 6845'-7015' (69, 0.34" holes) Frac with 9380# 100 mesh white sand followed with 180,040# 40/70 white sand

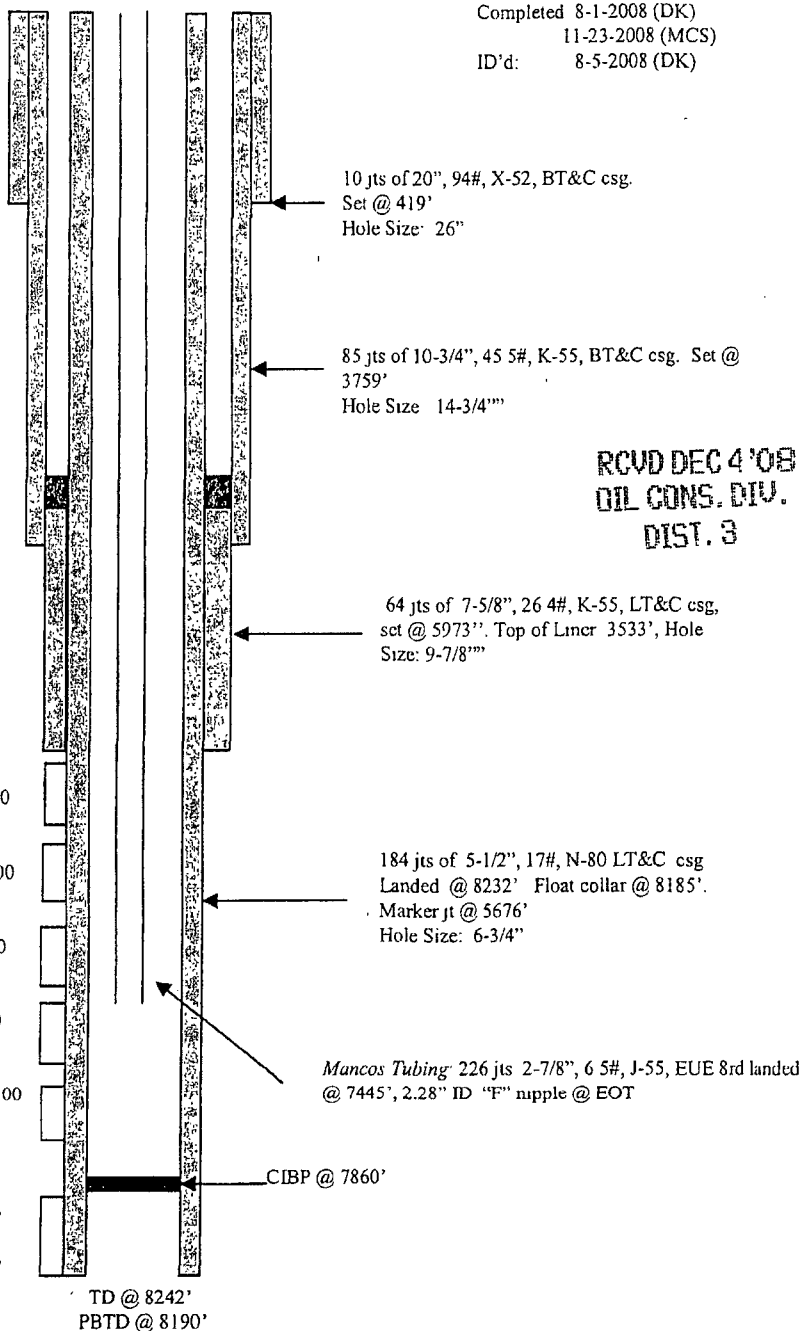
3rd stage 7055'-7250' (60, 0.34" holes) Frac with 11,400# 100 mesh white sand followed with 134,000# 40/70 white sand

2nd stage 7275'-7400' (57, 0.34" holes) Frac with 7,640# 100 mesh white sand followed with 117,654# 40/70 white sand

1st stage 7625'-7675' (33, 0.34" holes) Frac with 7,760# 100 mesh white sand followed with 7,966# 40/70 white sand

Greenhorn 7715'-7759' (30, 0.34" holes) Frac with 8,500# 100 white mesh sand followed with 89,020# 40/70 white sand

Dakota 7887' - 8084' (57, 0.36" holes)
 Frac w/9900# LP108 14/40 followed
 w/3500# tempered LC 20/40.



RCVD DEC 4 '08
 OIL CONS. DIV.
 DIST. 3

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
26"	20"	818 sx	1323 cu.ft.	Surface
14-3/4"	10-3/4"	2260 sx	4563 cu.ft.	Surface
9-7/8"	7-5/8"	400 sx	854 cu.ft.	3860' (CBL)
6-3/4"	5 1/2"	280 sx	638 cu.ft.	3500' (CBL)

RECEIVED

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field

AUG 05 2008
SUBMIT IN
DUPLICATE

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

5 LEASE DESIGNATION AND LEASE NO
NMSF-078771

6 IF INDIAN ALLOTTEE OR

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #5C

9 API WELL NO

30-039-30178 -0051

10 FIELD AND POOL, OR WILDCAT
BASIN DAKOTA

11 SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA

NW/4 SE/4, Sec 26, T31N, R6W

12 COUNTY OR

Rio Arriba

13 STATE

New Mexico

19 ELEVATION CASINGHEAD

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1845' FSL & 1735' FEL, sec 26, T31N, R6W
At top production interval reported below: Same
At total depth: Same

15 DATE
SPUDDED
6-11-08

16 DATE T D
REACHED
7-14-08

17 DATE COMPLETED (READY TO PRODUCE)
8-1-08

14 PERMIT NO

DATE ISSUED

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6419' GR

20 TOTAL DEPTH, MD & TVD
8242' MD

21 PLUG BACK T D, MD & TVD
8190'

22 IF MULTICOMP,
HOW MANY
3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA 7887' - 8084' * Mesaverde & Mancos to be completed at later date

25 WAS DIRECTIONAL SURVEY MADE
YES

26 TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron, Reservoir Tool, Cement Bond Log

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
20", X-52	94#	419'	26"	818 SX - SURFACE	
10-3/4", K-55	45 5#	3759'	14-3/4"	2260 SX - SURFACE	
5-1/2", N-80	17 0#	8232'	6-3/4"	638 SX - 3500' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7-5/8", 26.4#, K-55	3533'	5973'	400 sx TOC - 3860' (CBL)		2.875", 6.5#, J-55, EUE 8rd	8139'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: 7887' - 8084' Total of 57, 0.36" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7887' - 8084'	Fraced with 9900# LiteProp 108 14/40 followed w/3500# tempered LC 20/40
	RCVD AUG 12 '08 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)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
7-28-08	10 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	3.0 oz				264 p/day		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY: *Al Reator*

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

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

SIGNED

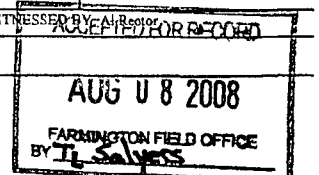
Lesley Higgins

TITLE

NMOC

DATE

8-5-08



38 GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
				KIRTLAND	2596'		
				FRUITLAND COAL	2971'		
				PICTURED CLIFFS	3240'		
				CLIFFHOUSE	3556'		
				MENEFEE	5450'		
				POINT LOOKOUT	5702'		
				MANCOS	6258'		
				DAKOTA	7885'		

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30178	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 5C

II. ¹⁰ Surface Location

UL or lot no. J	Section 26	Township 31N	Range 6W	Lot.Idn	Feet from the 1845	North/South Line SOUTH	Feet from the 1735	East/West line EAST	County RIO ARRIBA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code J	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD AUG 6 '08

IV. Well Completion Data

NOTE: Mesaverde and Mancos to be completed at a later date **OIL CONS. DIV. DIST. 3**

²¹ Spud Date 6-11-08	²² Ready Date 8-1-08	²³ TD 8242' MD	²⁴ PBDT 8190'	²⁵ Perforations 7887' - 8084'	²⁶ DHC, MC MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20", 94#, X-52	419'	818		
14-3/4"	10-3/4", 45.5#, K-55	3759'	2260		
9-7/8"	7-5/8", 26.4#, K-55	3533' - 5973'	400		
6-3/4"	5 1/2", 17#, N-80	8232'	280		
	2.875", 6.5#, J-55	8137'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 7-28-08	³⁴ Test Length 1.0 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 3.0 oz
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 264 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			OIL CONSERVATION DIVISION Approved by: <i>Charles...</i> 8-12-08 Title: SUPERVISOR DISTRICT #3 Approval Date: AUG 12 2008		
Printed name: Larry Higgins					
Title: Dirg COM					
E-mail Address: larry.higgins@williams.com					
Date: 8-5-08	Phone: 505-634-4208		<i>BLM approval</i>		

February 24, 2011

The ROSA Unit #16D DAKOTA Formation Well (non-commercial) is located 1015 feet from the South Line and 1300 feet from the West Line, Section 14 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 7, 2009 and completed in the Dakota formation on September 19, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8135' to 8228'. This well has a 2.375" tubing string. This well was shut in with a SICP of 220 psig. On September 18, 2009 the well was tested and after flowing for 2 hours through a 2" choke on the 2.375" tubing, the well gauged 316 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #016D | 1PDP | DAKOTA | JAL9BMILM3 | 62260952
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 09/2009	SJ_OP_POST
GAS 102 143 M/D 5 MOS EXP X	SJ_OP_POST
" X X M/D 6 IMO B/2.2000 55	SJ_OP_POST
" 42 X M/D 6 EXP B/1.8 45	SJ_OP_POST
" X X M/D 30 YRS EXP 6	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 336.25514 367.13133 M\$G 07/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #016D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:11:38
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA										INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates				Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate		
400 START	09/2009													
401 GAS	102.00	143.00	M/D	5.00	MOS	EXP	X	18.455	1/2010	-124.9915	3103.	4350.		
402 "	X	X	M/D	6.00	IMO	B/2.2000	55.00	37.387	7/2010	55.0000	4350.	2495.		
403 "	42.00	X	M/D	6.00	EXP	B/1.8	45.00	83.101	1/2019	45.0000	1278.	261.		
404 "	X	X	M/D	30.00	YRS	EXP	6.00	119.561	8/2039	6.0000	261.	73.		
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007					
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007					
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007					
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008					
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008					
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008					
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009					
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009					
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009					
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010					
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010					
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010					
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00		8/2039		5.750	5.750		
600 ATX	4.69	X	%	TO	LIFE	PC	0.00		8/2039		0.047	0.047		
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		8/2039		0.037	0.037		
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00		8/2039		700.000	700.000		
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00		8/2039		1.000	1.000		
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		8/2039		0.865	0.865		
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		8/2039		0.865	0.865		
OVERLAYS	Beginning, Ending Rates				Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate		
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		8/2039					
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		8/2039					
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00		8/2039					
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		8/2039					
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		8/2039					
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		8/2039					
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		8/2039					
914 GAS	01/2009	0	0	0	0	0	0	0	3190.8	3786.02	4385.04	#		
915 "	X	4461.6	3808.56	4133.52	3158.64	2986.56	2799.12	#	11.362	12/2009				
916 "	X	1306.56	1223.53	1034.66	887.26	1157.09	#		32.710	6/2010				
									38.319	11/2010				
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R		
800 CAPITAL	336.26	367.13	M\$G	07/2009	AD	ESC	INV	703.386	7/2009	0	703.3	0.0		

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12.8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #016D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:11:38
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MMBL	GAS, MMCF			OIL, MMBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	11.362			0.000	9.828			0.00	3.194	1.0	0.000	31.389	31.389
12-2010	0.000	27.901			0.000	24.134			0.00	3.734	1.0	0.000	90.107	90.107
12-2011	0.000	8.862			0.000	7.665			0.00	4.783	1.0	0.000	36.665	36.665
12-2012	0.000	6.525			0.000	5.644			0.00	4.783	1.0	0.000	26.995	26.995
12-2013	0.000	5.372			0.000	4.647			0.00	4.783	1.0	0.000	22.228	22.228
12-2014	0.000	4.656			0.000	4.027			0.00	4.783	1.0	0.000	19.262	19.262
12-2015	0.000	4.156			0.000	3.595			0.00	4.783	1.0	0.000	17.193	17.193
12-2016	0.000	3.782			0.000	3.271			0.00	4.783	1.0	0.000	15.648	15.648
12-2017	0.000	3.490			0.000	3.018			0.00	4.783	1.0	0.000	14.438	14.438
12-2018	0.000	3.253			0.000	2.814			0.00	4.783	1.0	0.000	13.458	13.458
12-2019	0.000	3.053			0.000	2.641			0.00	4.783	1.0	0.000	12.633	12.633
12-2020	0.000	2.870			0.000	2.483			0.00	4.783	1.0	0.000	11.875	11.875
12-2021	0.000	2.698			0.000	2.334			0.00	4.783	1.0	0.000	11.162	11.162
12-2022	0.000	2.536			0.000	2.194			0.00	4.783	1.0	0.000	10.493	10.493
12-2023	0.000	2.384			0.000	2.062			0.00	4.783	1.0	0.000	9.863	9.863
S TOT	0.000	92.898			0.000	80.357			0.00	4.274	1.0	0.000	343.407	343.407
AFTER	0.000	1.509			0.000	1.305			0.00	4.783	1.0	0.000	6.244	6.244
TOTAL	0.000	94.408			0.000	81.663			0.00	4.282	1.0	0.000	349.651	349.651

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%			
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	OPERATION TANGIBLE INV.	INTANG. INV.	TOTAL BORROW	TOTAL EQUITY INV	TOTAL CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$	
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
12-2009	2.595	2.800	0.000	25.994	336.255	367.131	0.000	703.386	-677.393	-588.252			
12-2010	7.449	8.400	0.000	74.257	0.000	0.000	0.000	0.000	74.257	-528.544			
12-2011	3.031	8.400	0.000	25.233	0.000	0.000	0.000	0.000	25.233	-509.757			
12-2012	2.232	8.400	0.000	16.364	0.000	0.000	0.000	0.000	16.364	-498.476			
12-2013	1.838	8.400	0.000	11.990	0.000	0.000	0.000	0.000	11.990	-490.823			
12-2014	1.592	8.400	0.000	9.269	0.000	0.000	0.000	0.000	9.269	-485.344			
12-2015	1.421	8.400	0.000	7.372	0.000	0.000	0.000	0.000	7.372	-481.310			
12-2016	1.294	8.400	0.000	5.954	0.000	0.000	0.000	0.000	5.954	-478.293			
12-2017	1.194	8.400	0.000	4.844	0.000	0.000	0.000	0.000	4.844	-476.021			
12-2018	1.113	8.400	0.000	3.945	0.000	0.000	0.000	0.000	3.945	-474.307			
12-2019	1.044	8.400	0.000	3.188	0.000	0.000	0.000	0.000	3.188	-473.024			
12-2020	0.982	8.400	0.000	2.493	0.000	0.000	0.000	0.000	2.493	-472.096			
12-2021	0.923	8.400	0.000	1.839	0.000	0.000	0.000	0.000	1.839	-471.461			
12-2022	0.867	8.400	0.000	1.225	0.000	0.000	0.000	0.000	1.225	-471.070			
12-2023	0.815	8.400	0.000	0.648	0.000	0.000	0.000	0.000	0.648	-470.879			
S TOT	28.390	120.400	0.000	194.616	336.255	367.131	0.000	703.386	-508.770	-470.879			
AFTER	0.516	5.600	0.000	0.128	0.000	0.000	0.000	0.000	0.128	-470.843			
TOTAL	28.907	126.000	0.000	194.744	336.255	367.131	0.000	703.386	-508.642	-470.843			

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #016D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:11:38
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	25.994	16.017	0.000	367.131	0.000	-357.155	0.000	-125.004	-552.389	-479.698	
12-2010	74.257	59.484	0.000	0.000	0.000	14.774	0.000	5.171	69.086	-424.147	
12-2011	25.233	74.503	0.000	0.000	0.000	-49.270	0.000	-17.244	42.478	-392.521	
12-2012	16.364	53.207	0.000	0.000	0.000	-36.843	0.000	-12.895	29.259	-372.351	
12-2013	11.990	38.008	0.000	0.000	0.000	-26.018	0.000	-9.106	21.096	-358.885	
12-2014	9.269	30.016	0.000	0.000	0.000	-20.747	0.000	-7.261	16.531	-349.115	
12-2015	7.372	30.005	0.000	0.000	0.000	-22.633	0.000	-7.922	15.293	-340.746	
12-2016	5.954	30.016	0.000	0.000	0.000	-24.062	0.000	-8.422	14.376	-333.462	
12-2017	4.844	4.999	0.000	0.000	0.000	-0.155	0.000	-0.054	4.898	-331.164	
12-2018	3.945	0.000	0.000	0.000	0.000	3.945	0.000	1.381	2.565	-330.050	
12-2019	3.188	0.000	0.000	0.000	0.000	3.188	0.000	1.116	2.072	-329.216	
12-2020	2.493	0.000	0.000	0.000	0.000	2.493	0.000	0.873	1.620	-328.612	
12-2021	1.839	0.000	0.000	0.000	0.000	1.839	0.000	0.644	1.196	-328.200	
12-2022	1.225	0.000	0.000	0.000	0.000	1.225	0.000	0.429	0.796	-327.946	
12-2023	0.648	0.000	0.000	0.000	0.000	0.648	0.000	0.227	0.421	-327.821	
S TOT	194.616	336.255	0.000	367.131	0.000	-508.770	0.000	-178.070	-330.701	-327.821	
AFTER	0.128	0.000	0.000	0.000	0.000	0.128	0.000	0.045	0.083	-327.798	
TOTAL	194.744	336.255	0.000	367.131	0.000	-508.642	0.000	-178.025	-330.617	-327.798	

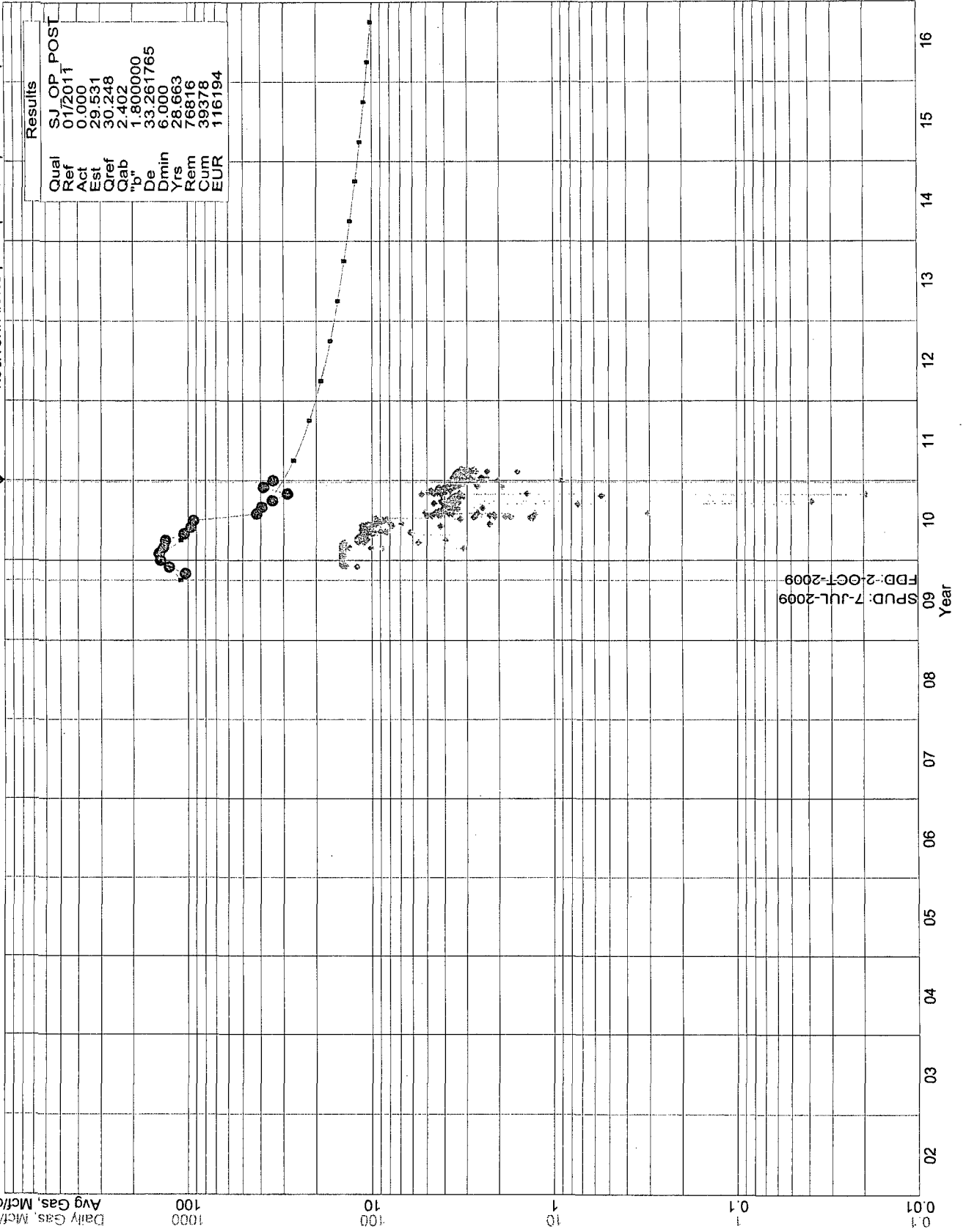
BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	17.00	ATAX PAY OUT YEARS	17.00
BTAX PAYOUT YEARS (DISC)	17.00	ATAX PAY OUT YEARS (DISC)	17.00
BTAX NET INCOME/INVEST	0.28	ATAX NET INCOME/INVEST	0.53
BTAX NET INCOME/INVEST (DISC)	0.23	ATAX NET INCOME/INVEST (DISC)	0.46
PRODUCTION START DATE	09/2009	PROJECT LIFE (YEARS)	17.00
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.629
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.783
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	94.408
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	94.408
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-508.6	-330.6	-508.6
2.00	-500.2	-332.2	-482.3
5.00	-486.0	-331.3	-451.0
8.00	-470.8	-327.8	-425.6
10.00	-460.5	-324.4	-410.8
12.00	-450.1	-320.4	-397.3
15.00	-434.5	-313.5	-378.8
18.00	-419.3	-305.9	-362.0
20.00	-409.3	-300.7	-351.6
25.00	-385.4	-287.1	-327.8
30.00	-363.0	-273.4	-306.5
35.00	-342.2	-260.1	-287.3
40.00	-322.9	-247.2	-269.9
45.00	-305.1	-235.0	-254.1
50.00	-288.6	-223.5	-239.7

SUB_AvgDay_Gas

Daily Gas, Mcf/day

Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	29.531
Qref	30.248
Qab	2.402
"b"	1.800000
De	33.261765
Dmin	6.000
Yrs	28.663
Rem	76816
Cum	39378
EUR	116194



ROSA UNIT #16D
BLANCO MV / BASIN MC / BASIN DK

Spud: 07/07/09

Completed: 09/19/09

1st Delivery: 0-0-00

Surface Location:

1015' FSL and 1300' FWL
 SW/4 SW/4 Sec 14 (M), T31N, R06W
 Rio Arriba, NM

Bottom Hole Location:

2034' FSL and 1974' FWL
 NE/4 SW/4 Sec 14 (K), T31N, R06W
 Rio Arriba, NM

Elevation: 6355' GR

API # 30-039-30749

Top	MD Depth	TVD Depth
Pictured Cliffs	3420'	3173'
Lewis	3770'	3522'
Cliffhouse Ss.	5617'	5368'
Menefee	5663'	5414'
Point Lookout	5918'	5669'
Mancos	6436'	6187'
Dakota	8134'	7885'

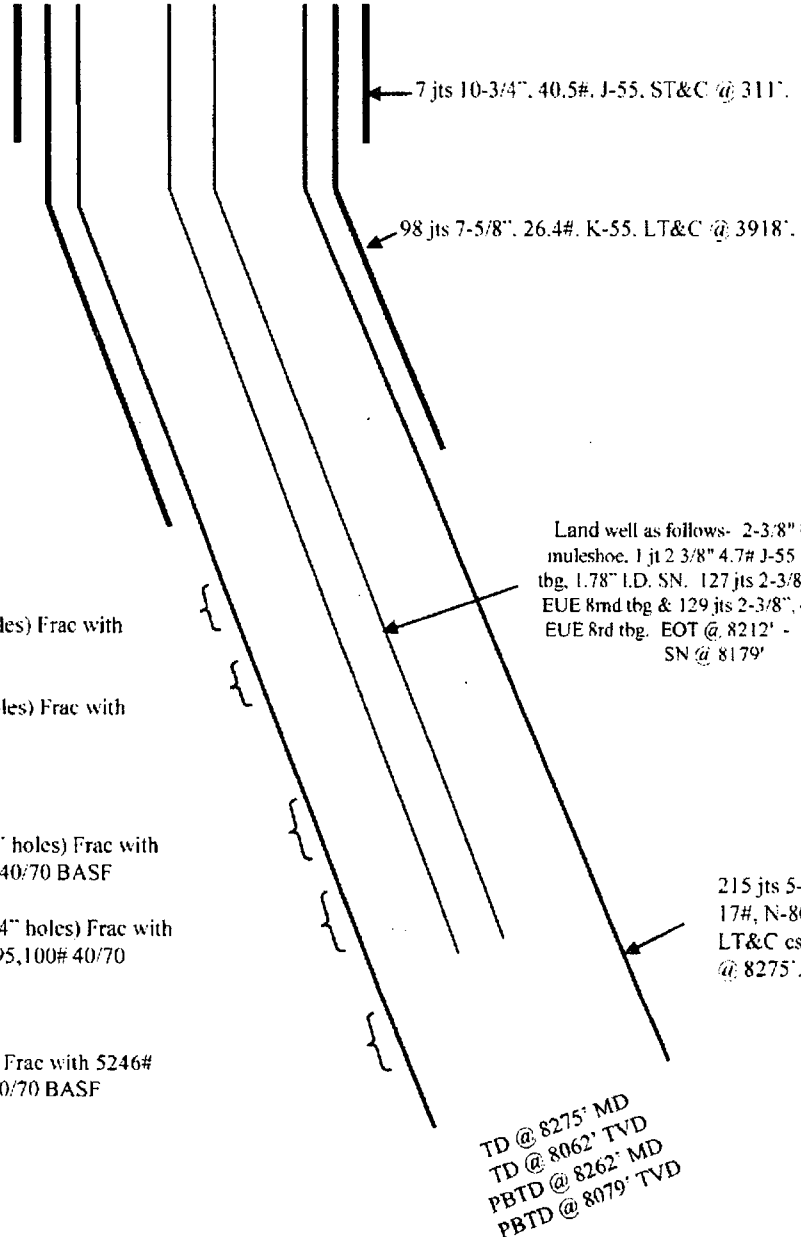
Upper MV: 5754'-5843' (57, 0.34" holes) Frac with
 80,282# 20/40 mesh BASF

Lower MV: 5904'-6215' (68, 0.34" holes) Frac with
 80,134# 20/40 mesh BASF

Upper Mancos: 7045'-7246' (75, 0.34" holes) Frac with
 5000# 100 mesh followed w/121,000# 40/70 BASF

Lower Mancos: 7358'-7530' (126, 0.34" holes) Frac with
 5000# 100 mesh BASF followed with 95,100# 40/70
 BASF

Dakota: 8135'-8228' (78, 0.34" holes) Frac with 5246#
 100 mesh BASF followed w/84,794# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	660 sxs	1647 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	504 cu.ft.	3286' CBL

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMITTING
DUPLICATE

(See other instructions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: 1 OIL WELL ☒ GAS WELL DRY OTHER						7. UNIT AGREEMENT NAME Rosa Unit	
b. TYPE OF COMPLETION: ☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF.RESVR. OTHER						Report to lease	
2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY						8. FARM OR LEASE NAME, WELL NO. Rosa Unit #16D	
3. ADDRESS AND TELEPHONE NO. P.O. Box 640, Aztec, NM 87410 (505) 634-4208						9. API WELL NO. 30-039-30749-0001	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At Surface: 1015' FSL & 1300' FWL, sec 14, T31N, R6W At top production interval reported below: 2034' FSL & 1974' FWL, sec 14, T31N, R6W At total depth: Same						10. FIELD AND POOL, OR WILDCAT Basin Dakota	
11. SEC. T.R.M., OR BLOCK AND SURVEY OR AREA Sec 14, T31N, R6W						12. COUNTY OR Rio Arriba	
13. STATE New Mexico						19. ELEVATION CASING HEAD	
15. DATE SPUDDED 7-7-09		16. DATE T.D. REACHED 7-21-09		17. DATE COMPLETED (READY TO PRODUCE) 9-19-09		18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6355' GR	
20. TOTAL DEPTH, MD & TVD 8275' MD / 8062' TVD		21. PLUG BACK T.D., MD & TVD 8262' MD		22. IF MULTICOMP. HOW MANY 3*		23. INTERVALS DRILLED BY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA: 8135'-8228' MD Commingled with Mesaverde and Mancos per AZT-3226						25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL						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	
10-3/4", J-55		40.5#		311'		14-3/4"	
7-5/8", K-55		26.4#		3918'		9-7/8"	
5-1/2", N-80		17.0#		8275'		6-3/4"	
29. LINER RECORD		30. TUBING RECORD					
SIZE		TOP (MD)		BOTTOM (MD)		SACKS CEMENT*	
2.375", 4.7#, J-55 EUE: 8rd		8212'		none			
31. PERFORATION RECORD (Interval, size, and number)				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
Dakota: Total of 78, 0.34" holes ✓				AMOUNT AND KIND OF MATERIAL USED			
8135'-8228'				Fraced with 5246# 100 mesh BASF followed with 84,794# 40/70 mesh BASF			
33. PRODUCTION							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing ✓				SI - waiting on tie-in ✓	
DATE OF TEST 9-18-09		TESTED 1 hr		CHOKE SIZE 2"		PROD'N FOR TEST PERIOD	
FLOW TUB PRESS 0		CASING PRESSURE 220 lb		CALCULATED 24-HOUR RATE		OIL - BBL.	
						GAS - MCF 316 mcf/d ✓	
						WATER - BBL.	
						OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD						TEST WITNESSED BY: Serjio Borunda	
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

OPERATOR

DATE 9-21-09

ACCEPTED FOR RECORD

SEP 22 2009

FARMINGTON FIELD OFFICE
BY *JL Bayers*

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	TOP	
					NAME	MEASURED DEPTH
					PICTURED CLIFFS	3420'
					LEWIS	3770'
					CLIFFHOUSE	5617'
					MENEFEE	5663'
					POINT LOOKOUT	5918'
					MANCOS	6436'
					DAKOTA	8134'
					</	

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30749	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 16D

II. ¹⁰ Surface Location

Ul or lot no. M	Section 14	Township 31N	Range 6W	Lot.Idn	Feet from the 1015	North/South Line SOUTH	Feet from the 1300	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. K	Section 14	Township 31N	Range 6W	Lot Idn	Feet from the 2034	North/South line SOUTH	Feet from the 1974	East/West line WEST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD SEP 22 '09

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

²¹ Spud Date 7-7-09	²² Ready Date 9-19-09	²³ TD 8275' MD	²⁴ PBTB 8262' MD	²⁵ Perforations 8135'-8228'	²⁶ DHC, MC AZT-3226
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	311'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3918'	660 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8275'	360 sx - 3286' (CBL)		
	2.375", 4.7#, J-55	8212'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-19-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 220 lb
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 316 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			9/24/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles Lee</i> 9-24-09		
Title: Dirg COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: SEP 24 2009		
Date: 9-19-09		Phone: 505-634-4208			

BIM approval

February 24, 2011

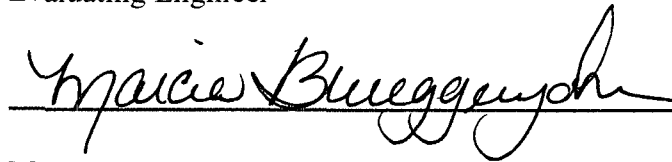
The ROSA Unit #19D DAKOTA Formation Well (non-commercial) is located 1980 feet from the South Line and 660 feet from the West Line, Section 24 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 25, 2009 and completed in the Dakota formation on November 16, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8031' to 8149'. This well has a 2.375" tubing string. This well was shut in with a SICP of 400 psig. On November 13, 2009 the well was tested and after flowing for 2 hours through a 32/64" choke on the 2.375" tubing, the well gauged 575 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggemann", is written over a horizontal line.

Marcia Brueggemann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #019D | 1PDP | DAKOTA | JAL9BP8U2T | 62260947
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 35 148 M/D 2 MOS EXP X	SJ_OP_POST
" 148 199 M/D 2 IMO EXP X	SJ_OP_POST
" 199 87 M/D 4 IMO EXP X	SJ_OP_POST
" 20 X M/D 7 EXP B/2.2000 35	SJ_OP_POST
" X X M/D 30 YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 291.68280 423.94066 M\$G 08/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #019D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:22:00
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA										INITIAL CALCULATED DATA			
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.		Init.Deff	Init. Rate	Final Rate	
400 START	11/2009												
401 GAS	35.00	148.00	M/D	2.00	MOS	EXP	X	4.768	12/2009*****		1065.	4502.	
402 "	148.00	199.00	M/D	2.00	IMO	EXP	X	15.246	2/2010 -490.9466		4502.	6053.	
403 "	199.00	87.00	M/D	4.00	IMO	EXP	X	31.715	6/2010 91.6440		6053.	2646.	
404 "	20.00	X	M/D	7.00	EXP	B/2.2000	35.00	52.911	2/2016 35.0000		608.	214.	
405 "	X	X	M/D	30.00	YRS	EXP	7.00	81.953	10/2039 7.0000		214.	38.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007				
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007				
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008				
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008				
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009				
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009				
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010				
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010				
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010				
512 "		5.75	X		\$/M	TO	LIFE	PC	0.00		10/2039	5.750	5.750
600 ATX		4.69	X	%		TO	LIFE	PC	0.00		10/2039	0.047	0.047
601 STX/GAS		3.75	X	%		TO	LIFE	PC	0.00		10/2039	0.037	0.037
602 OPC/T		700.00	X	\$/M		TO	LIFE	PC	0.00		10/2039	700.000	700.000
705 LSE/WI		1.0000	D	FRAC		TO	LIFE	FLAT	0.00		10/2039	1.000	1.000
720 NET/OIL		0.8650	D	FRAC		TO	LIFE	FLAT	0.00		10/2039	0.865	0.865
740 NET/GAS		0.8650	D	FRAC		TO	LIFE	FLAT	0.00		10/2039	0.865	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.		Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		10/2039				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		10/2039				
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00		10/2039				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		10/2039				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		10/2039				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		10/2039				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		10/2039				
914 GAS	01/2009	0	0	0	0	0	0	0	1079.52 4614.48 5384.16	#	11.078	1/2010	
915 "	X	5590.32	4758.24	3564	2702.51	599.15	529.75	543.2	#		29.365	8/2010	
916 "	X	520.35	460.8	400.25	#						30.757	11/2010	
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R	
800 CAPITAL	291.68	423.94	M\$G	08/2009	AD	ESC	INV	715.623	8/2009	0	715.6	0.0	

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #019D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:22:00
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		5.694		0.000		4.925		0.00	3.417	1.0	0.000	16.832	16.832
12-2010	0.000		25.538		0.000		22.090		0.00	3.883	1.0	0.000	85.782	85.782
12-2011	0.000		4.796		0.000		4.149		0.00	4.780	1.0	0.000	19.832	19.832
12-2012	0.000		3.834		0.000		3.317		0.00	4.780	1.0	0.000	15.855	15.855
12-2013	0.000		3.306		0.000		2.860		0.00	4.780	1.0	0.000	13.670	13.670
12-2014	0.000		2.958		0.000		2.558		0.00	4.780	1.0	0.000	12.230	12.230
12-2015	0.000		2.705		0.000		2.340		0.00	4.780	1.0	0.000	11.185	11.185
12-2016	0.000		2.508		0.000		2.169		0.00	4.780	1.0	0.000	10.370	10.370
12-2017	0.000		2.332		0.000		2.017		0.00	4.780	1.0	0.000	9.644	9.644
12-2018	0.000		0.557		0.000		0.482		0.00	4.780	1.0	0.000	2.304	2.304
12-2019														
12-2020														
12-2021														
12-2022														
12-2023														
S TOT	0.000		54.228		0.000		46.907		0.00	4.215	1.0	0.000	197.703	197.703
AFTER	0.000		0.000		0.000		0.000		0.00	0.000	1.0	0.000	0.000	0.000
TOTAL	0.000		54.228		0.000		46.907		0.00	4.215	1.0	0.000	197.703	197.703

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	OPERATION TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.392	1.400	0.000	14.040	291.683	423.941	0.000	715.623	-701.583	-605.286	
12-2010	7.092	8.400	0.000	70.290	0.000	0.000	0.000	0.000	70.290	-548.768	
12-2011	1.640	8.400	0.000	9.792	0.000	0.000	0.000	0.000	9.792	-541.477	
12-2012	1.311	8.400	0.000	6.144	0.000	0.000	0.000	0.000	6.144	-537.242	
12-2013	1.130	8.400	0.000	4.140	0.000	0.000	0.000	0.000	4.140	-534.599	
12-2014	1.011	8.400	0.000	2.819	0.000	0.000	0.000	0.000	2.819	-532.934	
12-2015	0.925	8.400	0.000	1.861	0.000	0.000	0.000	0.000	1.861	-531.915	
12-2016	0.857	8.400	0.000	1.113	0.000	0.000	0.000	0.000	1.113	-531.352	
12-2017	0.797	8.400	0.000	0.447	0.000	0.000	0.000	0.000	0.447	-531.142	
12-2018	0.190	2.100	0.000	0.013	0.000	0.000	0.000	0.000	0.013	-531.136	
12-2019											
12-2020											
12-2021											
12-2022											
12-2023											
S TOT	16.345	70.700	0.000	110.658	291.683	423.941	0.000	715.623	-604.965	-531.136	
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-531.136	
TOTAL	16.345	70.700	0.000	110.658	291.683	423.941	0.000	715.623	-604.965	-531.136	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #019D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:22:00
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

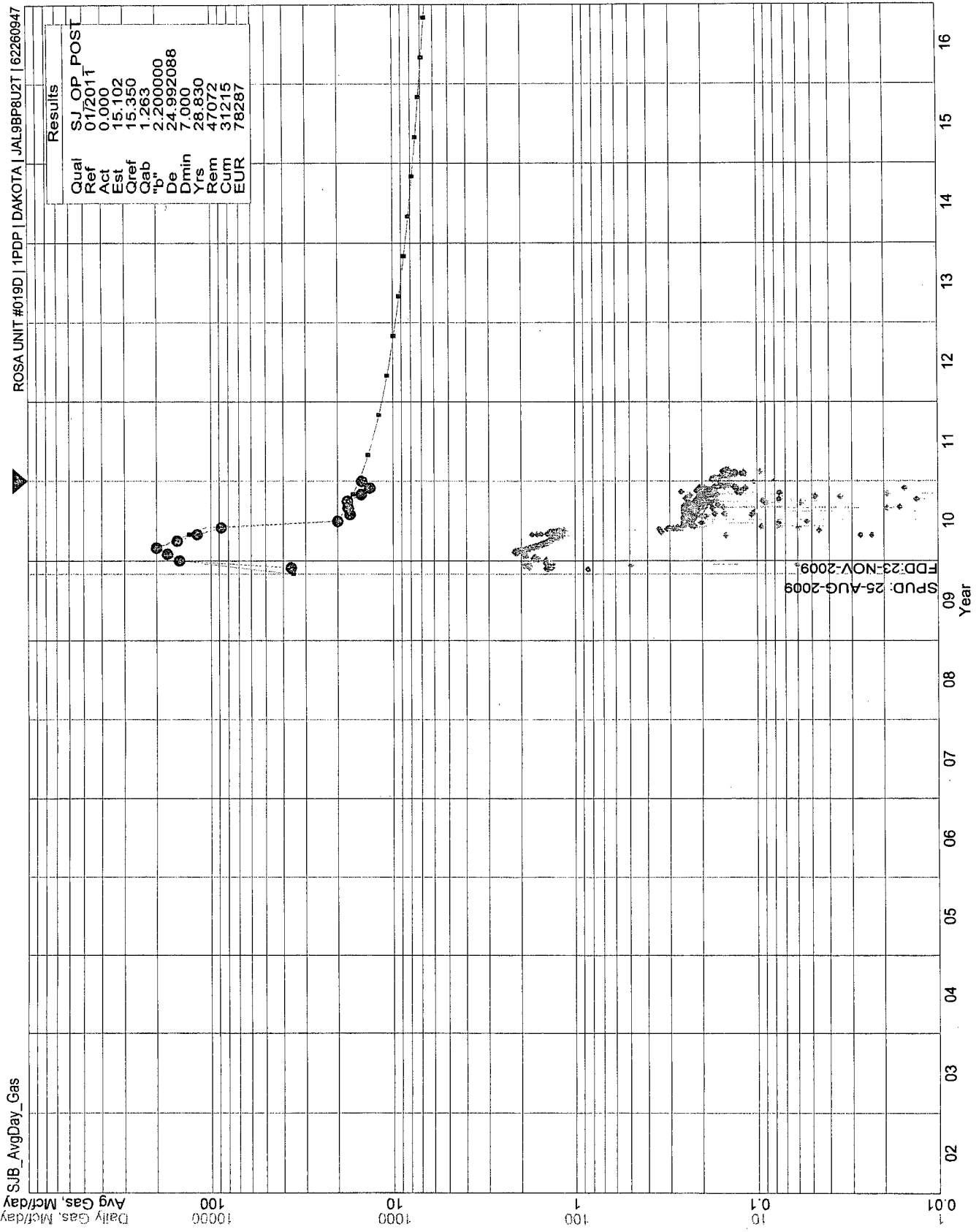
AFTER TAX ECONOMICS

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	14.040	8.336	0.000	423.941	0.000	-418.237	0.000	-146.383	-555.200	-478.167
12-2010	70.290	57.156	0.000	0.000	0.000	13.134	0.000	4.597	65.693	-425.344
12-2011	9.792	64.627	0.000	0.000	0.000	-54.835	0.000	-19.192	28.984	-403.765
12-2012	6.144	46.154	0.000	0.000	0.000	-40.010	0.000	-14.004	20.147	-389.876
12-2013	4.140	32.970	0.000	0.000	0.000	-28.830	0.000	-10.091	14.230	-380.792
12-2014	2.819	26.038	0.000	0.000	0.000	-23.219	0.000	-8.127	10.945	-374.324
12-2015	1.861	26.028	0.000	0.000	0.000	-24.167	0.000	-8.459	10.319	-368.676
12-2016	1.113	26.038	0.000	0.000	0.000	-24.925	0.000	-8.724	9.836	-363.692
12-2017	0.447	4.336	0.000	0.000	0.000	-3.890	0.000	-1.361	1.808	-362.844
12-2018	0.013	0.000	0.000	0.000	0.000	0.013	0.000	0.005	0.009	-362.840
12-2019										
12-2020										
12-2021										
12-2022										
12-2023										
S TOT	110.658	291.683	0.000	423.941	0.000	-604.965	0.000	-211.738	-393.228	-362.840
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-362.840
TOTAL	110.658	291.683	0.000	423.941	0.000	-604.965	0.000	-211.738	-393.228	-362.840

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	10.58	ATAX PAY OUT YEARS	10.58
BTAX PAYOUT YEARS (DISC)	10.58	ATAX PAY OUT YEARS (DISC)	10.58
BTAX NET INCOME/INVEST	0.15	ATAX NET INCOME/INVEST	0.45
BTAX NET INCOME/INVEST(DISC)	0.14	ATAX NET INCOME/INVEST(DISC)	0.41
PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	10.58
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.402
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.780
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	54.228
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	54.228
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-605.0	-393.2	-605.0
2.00	-585.3	-386.2	-569.5
5.00	-557.3	-374.8	-524.9
8.00	-531.1	-362.8	-487.6
10.00	-514.6	-354.8	-465.8
12.00	-498.9	-346.7	-446.0
15.00	-476.4	-334.6	-419.3
18.00	-455.4	-322.7	-395.6
20.00	-442.2	-315.0	-381.1
25.00	-411.4	-296.3	-349.0
30.00	-383.6	-278.8	-321.3
35.00	-358.6	-262.4	-297.3
40.00	-335.9	-247.3	-276.1
45.00	-315.2	-233.2	-257.3
50.00	-296.4	-220.2	-240.5



Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	15.102
Qref	15.350
Qab	1.263
"b"	2.200000
De	24.992088
Dmin	7.000
Yrs	28.830
Rem	47072
Cum	31215
EUR	78287

SPUD: 25-AUG-2009
FDD: 23-NOV-2009

ROSA UNIT #019D

BLANCO MV / BASIN MC / BASIN DK

Spud: 08/25/09

Completed: 11/16/09

1ST Delivered: 11/23/09

Surface Location:

1980' FSL and 660' FWL
NW/4 SW/4 Sec 24 (L), T31N, R06W
Rio Arriba, NM

Bottom Hole Location:

803' FSL and 694' FWL
SW/4 SW/4 Sec 24 (M), T31N, R06W
Rio Arriba, NM

Elevation: 6311' GR

API # 30-039-30781

Top	MD Depth	TVD Depth
Lewis	3682'	3464'
Cliffhouse Ss.	5562'	5344'
Point Lookout	5814'	5596'
Mancos	6270'	6051'
Graneros	7903'	7684'
Dakota	8031'	7812'

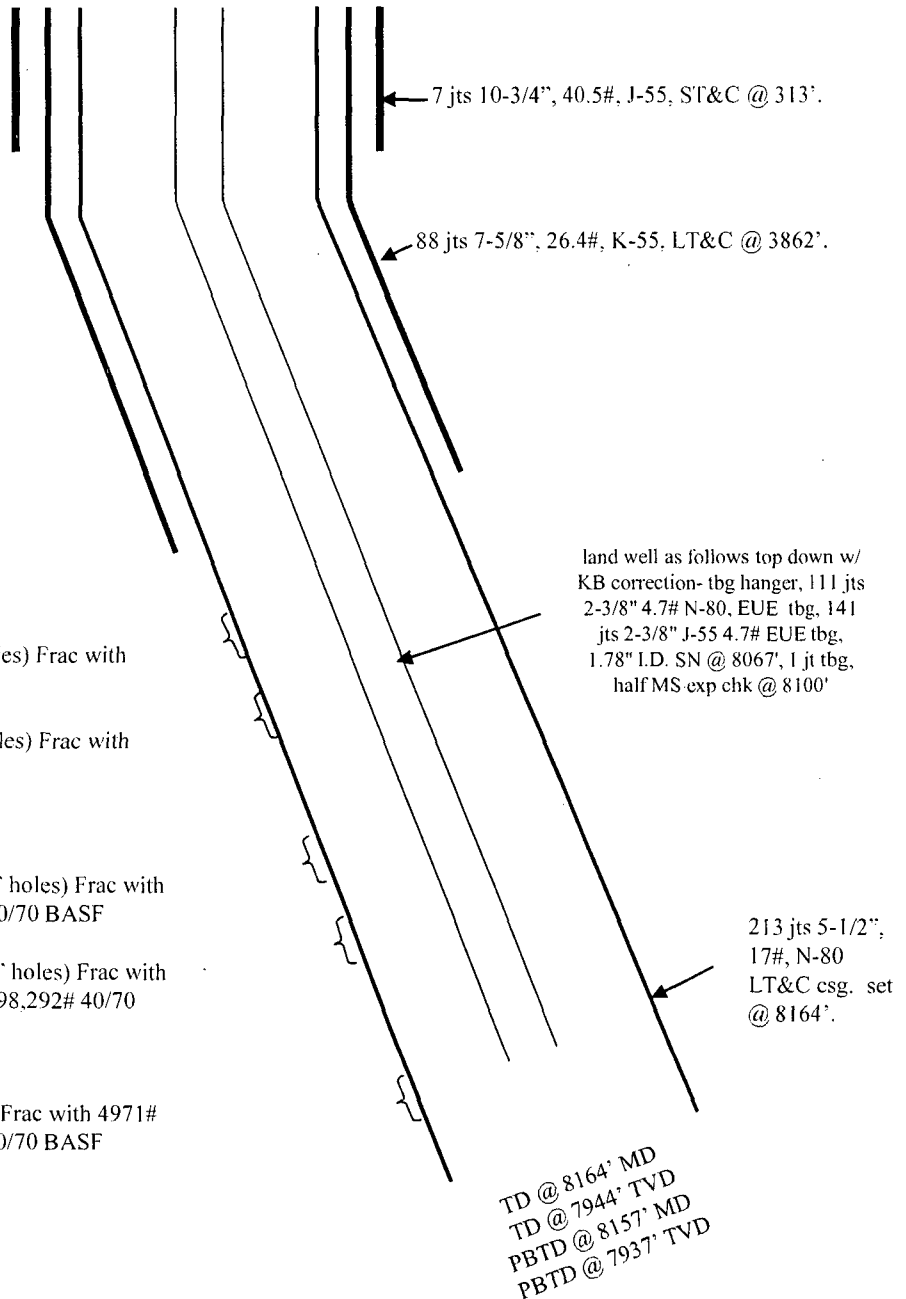
Upper MV: 5353'-5734' (63, 0.34" holes) Frac with
80,120# 20/40 mesh BASF

Lower MV: 5816'-6181' (69, 0.34" holes) Frac with
80,000# 20/40 mesh BASF

Upper Mancos: 6960'-7220' (81, 0.34" holes) Frac with
6406# 100 mesh followed w/92,349# 40/70 BASF

Lower Mancos: 7272'-7734' (81, 0.34" holes) Frac with
6396# 100 mesh BASF followed with 98,292# 40/70
BASF

Dakota: 8031'-8149' (78, 0.34" holes) Frac with 4971#
100 mesh BASF followed w/64,277# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cnt
14-3/4"	10-3/4", 40.5#	300 sxs	539 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	590 sxs	1456 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	504 cu.ft.	3490' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30781	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 019D

II. ¹⁰ Surface Location

UL or lot no. L	Section 24	Township 31N	Range 6W	Lot Idn	Feet from the 1980	North/South Line SOUTH	Feet from the 660	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. M	Section 24	Township 31N	Range 6W	Lot Idn	Feet from the 803	North/South line SOUTH	Feet from the 694	East/West line WEST	County Rio Arriba

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
	RCVD NOV 23 '09	

IV. Well Completion Data NOTE: Commingled with MV & MC

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 8-25-09	²² Ready Date 11/16/09	²³ TD 8164' MD	²⁴ PBD 8157' MD	²⁵ Perforations 8031' - 8149'	²⁶ DHC, MC AZT-3263
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	313'	300 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3862'	590 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8164'	360 sx - 3490' (CBL)		
	2.375", 4.7#, J-55 & N80	8006'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11/13/09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 400 lb
³⁷ Choke Size 32/64"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 575 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>		12-1-09 OIL CONSERVATION DIVISION
Printed name: Heather Riley		Approved by: <i>[Signature]</i>
Title: Regulatory Specialist		Title: DEPUTY OIL & GAS INSPECTOR, DIST. 4.
E-mail Address: Heather.riley@williams.com		Approval Date: DEC 02 2009
Date: 11/18/09	Phone: 505-634-4222	<i>Bum approval</i>

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

5 LEASE DESIGNATION AND LEASE NO.
NMSF-078767

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #019D

9 API WELL NO.
30-039-30781-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 24, T31N, R6W

12 COUNTY OR 13 STATE
Rio Arriba New Mexico

19 ELEVATION CASINGHEAD

ROTARY TOOLS CABLE TOOLS
x

25 WAS DIRECTIONAL SURVEY MADE
YES

27 WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR ☐ OTHER

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

3 ADDRESS AND TELEPHONE NO
P.O. Box 640, Aztec, NM 87410 (505) 634-4208
Bureau of Land Management
Farrington Field Office

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1980' FSL & 660' FWL, sec 24, T31N, R6W
At top production interval reported below: 803' FSL & 694' FWL, sec 24, T31N, R6W
At total depth: Same

14. PERMIT NO. DATE ISSUED

18 ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6311' GR

15. DATE 16. DATE T.D. REACHED
SPUDDED 9-8-09
8-25-09

20 TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD
8164' MD / 7944' TVD 8157' MD / 7937' TVD

22 IF MULTICOMP, HOW MANY 23 INTERVALS DRILLED BY
3*

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA: 8031' - 8149' MD Commingled with MV & MC per AZT-3263

26 TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	313'	14-3/4"	300 SX - SURFACE	
7-5/8", K-55	26.4#	3862'	9-7/8"	590 SX - SURFACE	
5-1/2", N-80	17.0#	8164'	6-3/4"	360 SX - 3490' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8006'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 78, 0.34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8031'-8149'	Fraced with 4971# 100 mesh BASF followed with 64,277# 40/70 mesh BASF

RCVD DEC 1 '09

OIL CONS. DIV.

33 PRODUCTION

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
11/13/09	2 hr	32/64"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	400 lb				575 mc/d		

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

TEST WITNESSED BY Weldon Higgins

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

TITLE Regulatory Specialist

DATE 11/18/2009

ACCEPTED FOR RECORD

23 2009
FARRINGTON FIELD OFFICE
BY J. Sayers

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, core interval, 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
				LEWIS		3682'	3464'
				CLIFFHOUSE		5562'	5344'
				POINT LOOKOUT		5814'	5596'
				MANCOS		6270'	6051'
				GRANEROS		7903'	7684'
				DAKOTA		8031'	7812'

February 24, 2011

The ROSA Unit #20D DAKOTA Formation Well (non-commercial) is located 1485 feet from the North Line and 1525 feet from the East Line, Section 14 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 9, 2009 and completed in the Dakota formation on November 23, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8120' to 8334'. This well has a 2.375" tubing string. This well was shut in with a SICP of 400 psig. On November 22, 2009 the well was tested and after flowing for 3 hours through a 1/2" choke on the 2.375" tubing, the well gauged 601 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #020D | 1PDP | DAKOTA | JAL9BN9R1T | 62260946
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 64 150 M/D 2 MOS EXP X	SJ_OP_POST
" 150 98 M/D 9 IMO EXP X	SJ_OP_POST
" 29 X M/D 7 EXP B/1.8 55	SJ_OP_POST
" X X M/D 30 YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 681.96528 498.26366 M\$G 11/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #020D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 11:26:51
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA				INITIAL CALCULATED DATA					
	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	11/2009									
401 GAS	64.00	150.00	M/D	2.00 MOS	EXP X	6.142	12/2009*****		1947.	4563.
402 "	150.00	98.00	M/D	9.00 IMO	EXP X	39.584	9/2010	43.3091	4563.	2981.
403 "	29.00	X	M/D	7.00 EXP	B/1.8	55.00	1/2018	55.0000	882.	149.
404 "	X	X	M/D	30.00 YRS	EXP	7.00	82.499	10/2039	7.0000	149.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957 #/M		4/2007			
501 "	X	6.627	6.827	6.197	4.987 #/M		8/2007			
502 "	X	4.587	5.117	6.057	6.497 #/M		12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277 #/M		4/2008			
504 "	X	9.427	9.846	11.356	7.637 #/M		8/2008			
505 "	X	6.427	4.267	2.837	4.627 #/M		12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617 #/M		4/2009			
507 "	X	2.497	2.647	2.977	3.177 #/M		8/2009			
508 "	X	2.467	3.417	4.257	4.277 #/M		12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77 #/M		4/2010			
510 "	X	3.87	3.69	4.28	4.08 #/M		8/2010			
511 "	X	3.47	4.126	5.75	5.75 #/M		12/2010			
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00	10/2039	5.750	5.750
600 ATX	4.69	X	%	TO	LIFE	PC	0.00	10/2039	0.047	0.047
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	10/2039	0.037	0.037
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00	10/2039	700.000	700.000
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	1.000	1.000
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	0.865	0.865
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2039	0.865	0.865
OVERLAYS	Beginning	Ending	Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	10/2039		
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	10/2039		
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00	10/2039		
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	10/2039		
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	10/2039		
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	10/2039		
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	10/2039		
914 GAS	01/2009	0	0	0	0	0	0	0	1944.48	4181.76
915 "	X	3971.76	4185.36	3490.56	4464.48	3640.32	3295.44	#	10.518	1/2010
916 "	X	3062.72	877.12	717.28	676.16	#			33.565	7/2010
									38.899	11/2010

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	681.97	498.26	M\$G	11/2009 AD	ESC INV	1180.229	11/2009	0	1180.2	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #020D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:26:51
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		6.126		0.000		5.299	0.00	3.420	1.0	0.000	18.121	18.121
12-2010		0.000		33.437		0.000		28.923	0.00	3.616	1.0	0.000	104.578	104.578
12-2011		0.000		5.548		0.000		4.799	0.00	4.787	1.0	0.000	22.972	22.972
12-2012		0.000		3.737		0.000		3.233	0.00	4.787	1.0	0.000	15.474	15.474
12-2013		0.000		2.986		0.000		2.583	0.00	4.787	1.0	0.000	12.363	12.363
12-2014		0.000		2.548		0.000		2.204	0.00	4.787	1.0	0.000	10.548	10.548
12-2015		0.000		1.529		0.000		1.322	0.00	4.787	1.0	0.000	6.330	6.330
12-2016														
12-2017														
12-2018														
12-2019														
12-2020														
12-2021														
12-2022														
12-2023														
S TOT		0.000		55.911		0.000		48.363	0.00	3.937	1.0	0.000	190.387	190.387
AFTER		0.000		0.000		0.000		0.000	0.00	0.000	1.0	0.000	0.000	0.000
TOTAL		0.000		55.911		0.000		48.363	0.00	3.937	1.0	0.000	190.387	190.387

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----			8.0%			
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.498	1.400	0.000	15.223	681.965	498.264	0.000	1180.229	-1165.006		-985.740	
12-2010	8.646	8.400	0.000	87.532	0.000	0.000	0.000	0.000	87.532		-915.357	
12-2011	1.899	8.400	0.000	12.673	0.000	0.000	0.000	0.000	12.673		-905.922	
12-2012	1.279	8.400	0.000	5.795	0.000	0.000	0.000	0.000	5.795		-901.927	
12-2013	1.022	8.400	0.000	2.941	0.000	0.000	0.000	0.000	2.941		-900.050	
12-2014	0.872	8.400	0.000	1.276	0.000	0.000	0.000	0.000	1.276		-899.295	
12-2015	0.523	5.600	0.000	0.207	0.000	0.000	0.000	0.000	0.207		-899.181	
12-2016												
12-2017												
12-2018												
12-2019												
12-2020												
12-2021												
12-2022												
12-2023												
S TOT	15.740	49.000	0.000	125.647	681.965	498.264	0.000	1180.229	-1054.582		-899.181	
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		-899.181	
TOTAL	15.740	49.000	0.000	125.647	681.965	498.264	0.000	1180.229	-1054.582		-899.181	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #020D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 11:26:51
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

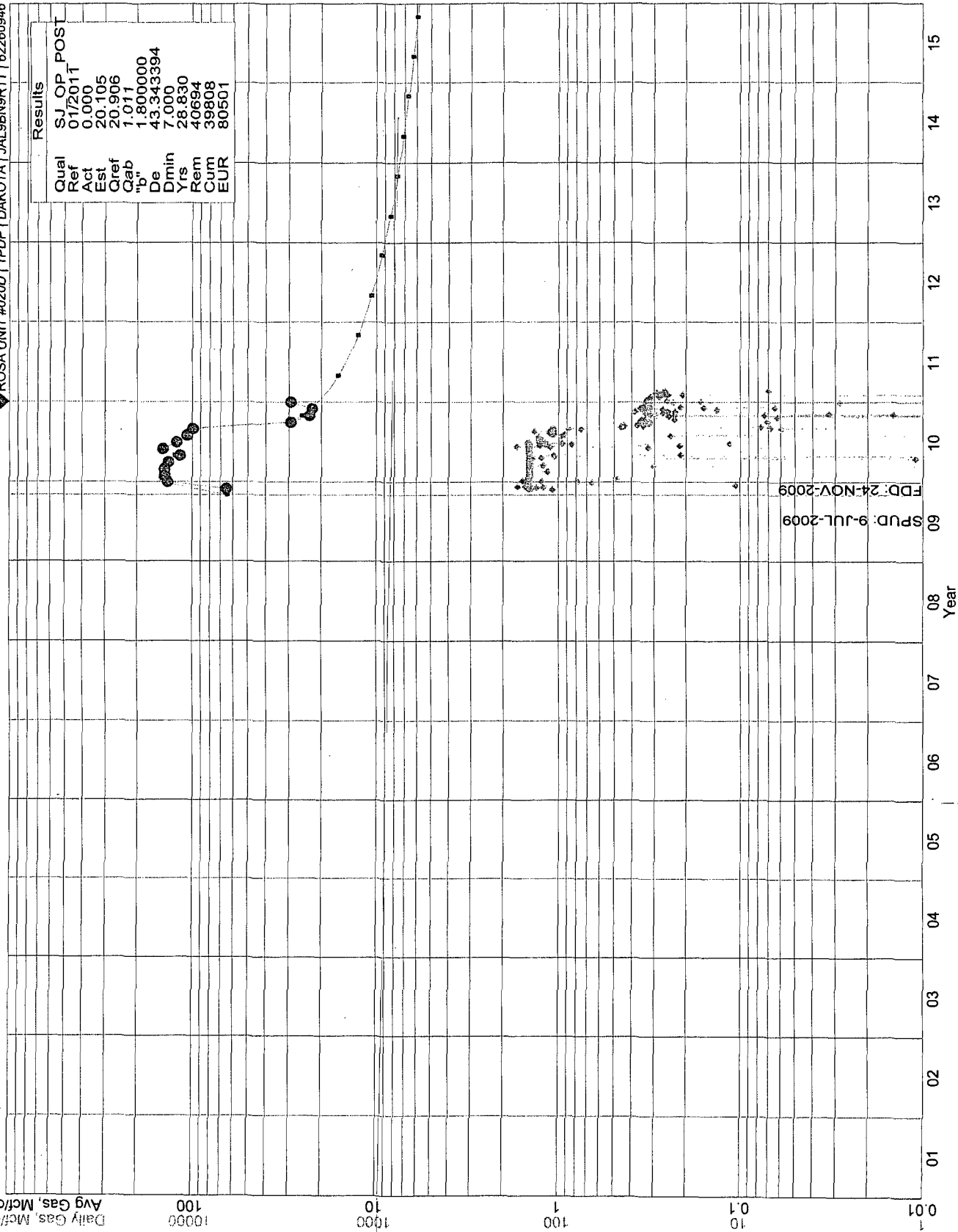
EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%	DISC
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. ATAX	
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	15.223	19.491	0.000	498.264	0.000	-502.531	0.000	-175.886	-989.120	-833.000	
12-2010	87.532	133.633	0.000	0.000	0.000	-46.101	0.000	-16.135	103.668	-749.643	
12-2011	12.673	151.101	0.000	0.000	0.000	-138.428	0.000	-48.450	61.123	-704.135	
12-2012	5.795	107.910	0.000	0.000	0.000	-102.115	0.000	-35.740	41.535	-675.503	
12-2013	2.941	77.085	0.000	0.000	0.000	-74.144	0.000	-25.950	28.891	-657.061	
12-2014	1.276	60.877	0.000	0.000	0.000	-59.600	0.000	-20.860	22.136	-643.978	
12-2015	0.207	131.869	0.000	0.000	0.000	-131.663	0.000	-46.082	46.289	-618.320	
12-2016											
12-2017											
12-2018											
12-2019											
12-2020											
12-2021											
12-2022											
12-2023											
S TOT	125.647	681.965	0.000	498.264	0.000	-1054.582	0.000	-369.104	-685.478	-618.320	
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-618.320	
TOTAL	125.647	681.965	0.000	498.264	0.000	-1054.582	0.000	-369.104	-685.478	-618.320	

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	8.00	ATAX PAY OUT YEARS	8.00
BTAX PAYOUT YEARS (DISC)	8.00	ATAX PAY OUT YEARS (DISC)	8.00
BTAX NET INCOME/INVEST	0.11	ATAX NET INCOME/INVEST	0.42
BTAX NET INCOME/INVEST (DISC)	0.10	ATAX NET INCOME/INVEST (DISC)	0.38
PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	8.00
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.407
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.787
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	55.911
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	55.911
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-1054.6	-685.5	-1054.6
2.00	-1012.3	-669.1	-994.4
5.00	-953.3	-643.8	-915.5
8.00	-899.2	-618.3	-847.3
10.00	-865.5	-601.4	-806.7
12.00	-833.7	-584.7	-769.3
15.00	-789.0	-560.1	-718.5
18.00	-747.6	-536.4	-673.1
20.00	-721.8	-521.0	-645.4
25.00	-662.7	-484.6	-583.6
30.00	-610.3	-450.9	-530.8
35.00	-563.7	-419.9	-485.0
40.00	-522.2	-391.4	-445.1
45.00	-484.9	-365.4	-410.0
50.00	-451.4	-341.6	-378.9

SJB_AvgDay_Gas



ROSA UNIT #20D

BLANCO MV / BASIN MC / BASIN DK

Spud: 07/09/09

Completed: 11/23/09

Green Delivery: 11/05/09

1st Delivered: 12/03/09

Surface Location:

1485' FNL and 1525' FEL
SW/4 NE/4 Sec 14 (G), T31N, R06W
Rio Arriba, NM

Bottom Hole Location:

2070' FNL and 448' FEL
SE/4 NE/4 Sec 14 (H), T31N, R06W
Rio Arriba, NM

Elevation: 6368' GR

API # 30-039-30754

Top	MD Depth	TVD Depth
Lewis	3753'	3560'
Cliffhouse Ss.	5604'	5405'
Point Lookout	5886'	5686'
Mancos	6322'	6122'
Graneros	7984'	7784'
Dakota	8118'	7918'

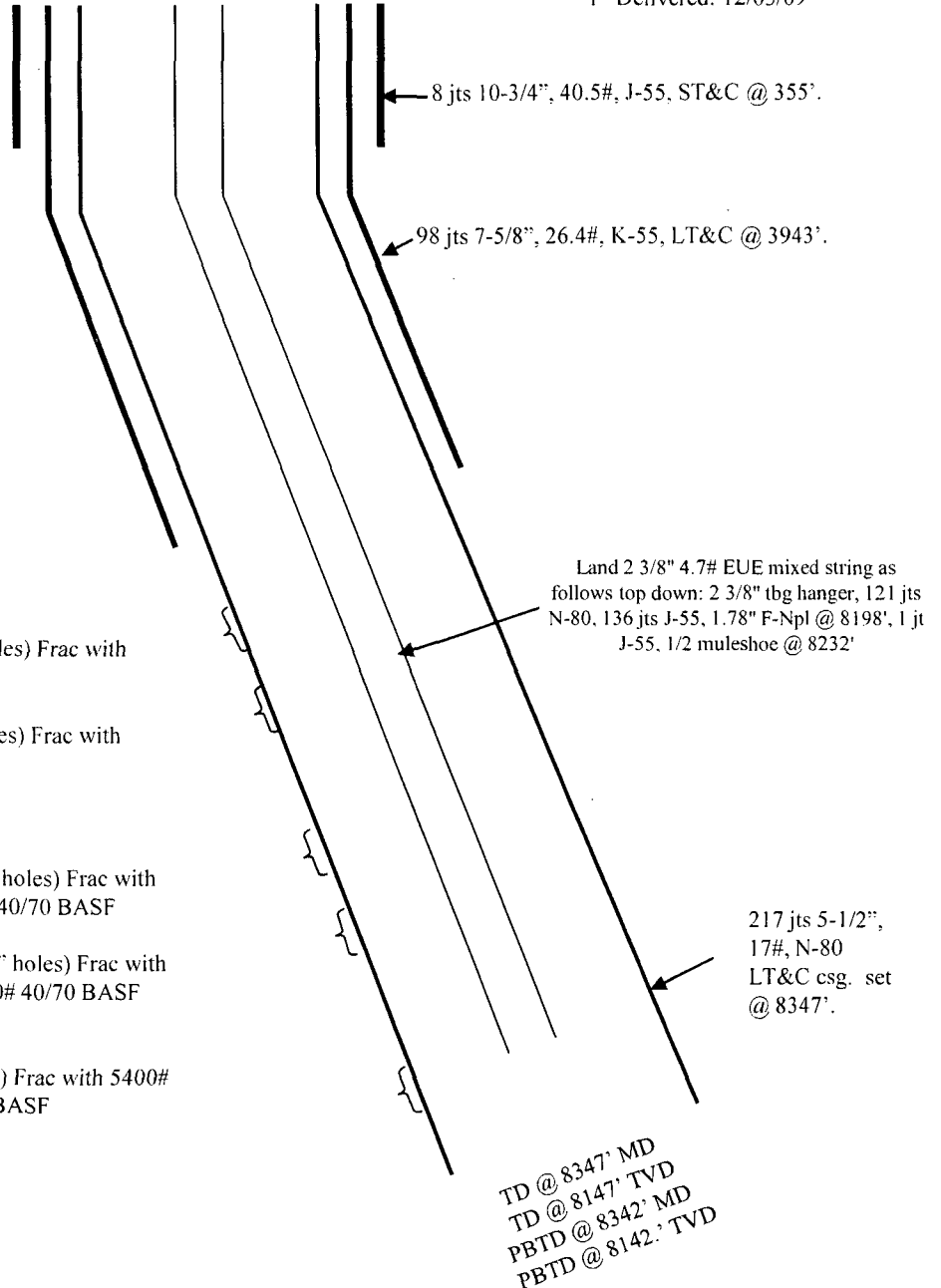
Upper MV: 5608'-5856' (63, 0.34" holes) Frac with
76,033# 20/40 mesh BASF

Lower MV: 5890-6214' (74, 0.34" holes) Frac with
83,087# 20/40 mesh BASF

Upper Mancos: 7130-7270' (36, 0.34" holes) Frac with
5200# 100 mesh followed w/101,640# 40/70 BASF

Lower Mancos: 7350'-7505' (39, 0.34" holes) Frac with
5200# 100 mesh followed with 107,800# 40/70 BASF

Dakota: 8120'-8334' (126, 0.34" holes) Frac with 5400#
100 mesh followed w/107,700# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	605sxs	1497 cu.ft.	Surface
6-3/4"	5-1/2", 17#	372 sxs	499 cu.ft.	4275' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30754	⁵ Pool Name BASIN DAKOTA - NSL-6053	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 20D

II. ¹⁰ Surface Location

¹¹ Ul or lot no. G	¹² Section 14	¹³ Township 31N	¹⁴ Range 6W	¹⁵ Lot Idn	¹⁶ Feet from the 1485	¹⁷ North/South Line NORTH	¹⁸ Feet from the 1525	¹⁹ East/West line EAST	²⁰ County Rio Arriba

¹¹ Bottom Hole Location

²¹ Ul or lot no. H	²² Section 14	²³ Township 31N	²⁴ Range 6W	²⁵ Lot Idn	²⁶ Feet from the 2070	²⁷ North/South line NORTH	²⁸ Feet from the 448	²⁹ East/West line EAST	³⁰ County Rio Arriba
³¹ Lse Code J	³² Producing Method Code	³³ Gas Connection Date	³⁴ C-129 Permit Number	³⁵ C-129 Effective Date	³⁶ C-129 Expiration Date				

III. Oil and Gas Transporters

³⁷ Transporter OGRID	³⁸ Transporter Name and Address	³⁹ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
	RCVD NOV 30 '09	

IV. Well Completion Data NOTE: To be commingled with MC, MV

OIL CONS. DIV.
DIST. 3

⁴⁰ Spud Date 7-9-09	⁴¹ Ready Date 11/2/09	⁴² TD 8347' MD	⁴³ PBD 8342' MD	⁴⁴ Perforations 8120' - 8334'	⁴⁵ DHC, MC AZT-3243
⁴⁶ Hole Size 14-3/4"	⁴⁷ Casing & Tubing Size 10-3/4", 40.5#, J J-55	⁴⁸ Depth Set 355'	⁴⁹ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3943'	605 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8347'	372 sx - 4275' (CBL)		
	2-3/8", 4.7# J-55 & N-80	8232'			

VI. Well Test Data

⁵⁰ Date New Oil	⁵¹ Gas Delivery Date	⁵² Test Date 11-22-09	⁵³ Test Length 1 hr	⁵⁴ Tbg. Pressure	⁵⁵ Csg. Pressure 400 lb
⁵⁶ Choke Size 1/2"	⁵⁷ Oil	⁵⁸ Water	⁵⁹ Gas 601 mcf/d		⁶⁰ Test Method Choke

⁶¹ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Larry Higgins

Title:
Drilling COM

E-mail Address:
larry.higgins@williams.com

Date:
11-25-09

Phone:
505-634-4208

12-8-09 OIL CONSERVATION DIVISION

Approved by:

Title:
SUPERVISOR DISTRICT # 3

Approval Date:
DEC 09 2009

Bum appl

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*

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 14, T31N, R6W	
b. TYPE OF COMPLETION: ☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER		12. COUNTY OR Rio Arriba	
2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY		13. STATE New Mexico	
3. ADDRESS AND TELEPHONE NO. P.O. Box 640, Aztec, NM 87410 (505) 634-4208		9. API WELL NO. 30-039-30754-01C1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface: 1485' FNL & 1525' FEL, sec 14, T31N, R6W At top production interval reported below: 2070' FNL & 448' FEL, sec 14, T31N, R6W At total depth: Same 2022' 800'		10. FIELD AND POOL, OR WILDCAT Basin Dakota	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 7-9-09		16. DATE T.D. REACHED 8-22-09	
17. DATE COMPLETED (READY TO PRODUCE) 11-23-09		18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6368' GR	
20. TOTAL DEPTH, MD & TVD 8347' MD / 8147' TVD		21. PLUG, BACK T.D., MD & TVD 8342' MD / 8142' TVD	
22. IF MULTICOMP. HOW MANY		23. INTERVALS DRILLED BY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA: 8120' - 8334' MD Commingled with MV & MC per AZT-3243		25. WAS DIRECTIONAL SURVEY MADE YES	
26. TYPE ELECTRIC AND OTHER LOGS Pulsed Neutron Decay Log and CBL		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
10-3/4", J-55	40.5#	355'	14-3/4"
7-5/8", K-55	26.4#	3943'	9-7/8"
5-1/2", N-80	17.0#	8347'	6-3/4"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2.375", 4.7#, J-55 & N-80EUE 8rd	8232'	none	
31. PERFORATION RECORD (Interval, size, and number)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
8120'-8334'		Fraced with 5400# 100 mesh followed with 107,700# 40/70 mesh BASF	
33. PRODUCTION			
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	
		Flowing	
WELL STATUS (PRODUCING OR SH)		S1 - waiting on tie-in	
DATE OF TEST	TESTED	CHOKES SIZE	PRODN FOR TEST PERIOD
11-22-09	1 hr	1/2"	
FLOW THG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE	
0	400 lb		
OIL - BBL		GAS - MCF	
601 mcf/d			
WATER - BBL		OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): non flaring			
TEST WITNESSED BY: Dalton King			
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 Drg COM

DATE 11-25-09

OPERATOR

ACCEPTED FOR RECORD

NOV 25 2009

FARMINGTON FIELD OFFICE

BY T. Salves

37. SUMMARY OF VARIOUS ZONES: (Show all important zones of porosity and contents thereof, core 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	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						LEWIS	3753'	3560'
						CLIFFHOUSE	5604'	5405'
						POINT LOOKOUT	5886'	5686'
						MANCOS	6322'	6122'
						GRANEROS	7984'	7784'
						DAKOTA	8118'	7918'

February 28, 2011

The ROSA Unit #41C DAKOTA Formation Well (non-commercial) is located 850 feet from the North Line and 1980 feet from the East Line, Section 8 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 19, 2009 and completed in the Dakota formation on August 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8490' to 8666'. This well has a 2.375" tubing string. This well was shut in with a SICP of 525 psig. On August 28, 2009 the well was tested and after flowing for 1 hour through a 24/64" choke on the 2.375" tubing, the well gauged 696 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 4.32% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #041C | 1PDP | DAKOTA | J87J287SIW | 62246200
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 09/2009	SJ_OP_POST
GAS 270 X M/D 9 MOS B/2.5 75	SJ_OP_POST
" 102 X M/D 5 EXP B/2.5 35	SJ_OP_POST
" X 10 M/D X YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 08/2008 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
 Field:
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:22:54
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA								INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	09/2009											
401 GAS	270.00	X	M/D	9.00	MOS	B/2.5	75.00	30.591 5/2010	75.0000	8213.	2294.	
402 "	102.00	X	M/D	5.00	EXP	B/2.5	35.00	161.519 8/2017	35.0000	3103.	1049.	
403 "	X	10.00	M/D	X	YRS	EXP	5.00	335.926 10/2041	5.0000	1049.	304.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007				
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007				
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008				
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008				
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009				
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009				
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010				
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010				
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010				
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00	10/2041		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC	0.00	10/2041		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	10/2041		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00	10/2041		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		0.865	0.865	

OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	10/2041				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	10/2041				
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00	10/2041				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	10/2041				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	10/2041				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	10/2041				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	10/2041				
914 GAS	01/2009	0	0	0	0	0	4726.89	7596.89	5029.88	#	17.354	11/2009
915 "	X	3027.03	2852.78	2500.59	2348.89	3001.61	920.04	#		32.005	5/2010	
916 "	X	147.89	1128.24	3167.04	3061.68	2649.6	2311.92	#		44.471	11/2010	

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77 MSG	08/2008 AD	ESC INV	625.961	8/2008	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
 Field:
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:22:54
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF	MMCF	MMCF	OIL, MBBL	GAS, MMCF	MMCF	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	20.381	0.000	0.000	0.000	17.629	0.00	2.706	1.0	0.000	1.0	0.000	47.704	47.704
12-2010	0.000	26.419	0.000	0.000	0.000	22.853	0.00	3.697	1.0	0.000	1.0	0.000	84.483	84.483
12-2011	0.000	23.912	0.000	0.000	0.000	20.684	0.00	4.733	1.0	0.000	1.0	0.000	97.893	97.893
12-2012	0.000	19.574	0.000	0.000	0.000	16.932	0.00	4.733	1.0	0.000	1.0	0.000	80.135	80.135
12-2013	0.000	17.156	0.000	0.000	0.000	14.840	0.00	4.733	1.0	0.000	1.0	0.000	70.235	70.235
12-2014	0.000	15.543	0.000	0.000	0.000	13.445	0.00	4.733	1.0	0.000	1.0	0.000	63.631	63.631
12-2015	0.000	14.362	0.000	0.000	0.000	12.423	0.00	4.733	1.0	0.000	1.0	0.000	58.795	58.795
12-2016	0.000	13.445	0.000	0.000	0.000	11.630	0.00	4.733	1.0	0.000	1.0	0.000	55.043	55.043
12-2017	0.000	12.706	0.000	0.000	0.000	10.990	0.00	4.733	1.0	0.000	1.0	0.000	52.015	52.015
12-2018	0.000	12.066	0.000	0.000	0.000	10.437	0.00	4.733	1.0	0.000	1.0	0.000	49.394	49.394
12-2019	0.000	11.462	0.000	0.000	0.000	9.915	0.00	4.733	1.0	0.000	1.0	0.000	46.925	46.925
12-2020	0.000	10.889	0.000	0.000	0.000	9.419	0.00	4.733	1.0	0.000	1.0	0.000	44.578	44.578
12-2021	0.000	10.345	0.000	0.000	0.000	8.948	0.00	4.733	1.0	0.000	1.0	0.000	42.350	42.350
12-2022	0.000	9.827	0.000	0.000	0.000	8.501	0.00	4.733	1.0	0.000	1.0	0.000	40.232	40.232
12-2023	0.000	9.336	0.000	0.000	0.000	8.076	0.00	4.733	1.0	0.000	1.0	0.000	38.220	38.220
S TOT	0.000	227.424	0.000	0.000	0.000	196.722	0.00	4.431	1.0	0.000	1.0	0.000	871.634	871.634
AFTER	0.000	106.321	0.000	0.000	0.000	91.967	0.00	4.733	1.0	0.000	1.0	0.000	435.260	435.260
TOTAL	0.000	333.744	0.000	0.000	0.000	288.689	0.00	4.527	1.0	0.000	1.0	0.000	1306.894	1306.894

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	125.192	500.769	0.000	625.961	-625.961	-583.323	-583.323
12-2009	3.944	2.800	0.000	40.961	0.000	0.000	0.000	0.000	40.961	-547.752	-547.752
12-2010	6.984	8.400	0.000	69.099	0.000	0.000	0.000	0.000	69.099	-492.191	-492.191
12-2011	8.093	8.400	0.000	81.400	0.000	0.000	0.000	0.000	81.400	-431.587	-431.587
12-2012	6.625	8.400	0.000	65.110	0.000	0.000	0.000	0.000	65.110	-386.703	-386.703
12-2013	5.807	8.400	0.000	56.029	0.000	0.000	0.000	0.000	56.029	-350.939	-350.939
12-2014	5.261	8.400	0.000	49.970	0.000	0.000	0.000	0.000	49.970	-321.406	-321.406
12-2015	4.861	8.400	0.000	45.534	0.000	0.000	0.000	0.000	45.534	-296.488	-296.488
12-2016	4.551	8.400	0.000	42.093	0.000	0.000	0.000	0.000	42.093	-275.159	-275.159
12-2017	4.300	8.400	0.000	39.315	0.000	0.000	0.000	0.000	39.315	-256.714	-256.714
12-2018	4.084	8.400	0.000	36.911	0.000	0.000	0.000	0.000	36.911	-240.679	-240.679
12-2019	3.879	8.400	0.000	34.645	0.000	0.000	0.000	0.000	34.645	-226.743	-226.743
12-2020	3.685	8.400	0.000	32.493	0.000	0.000	0.000	0.000	32.493	-214.641	-214.641
12-2021	3.501	8.400	0.000	30.448	0.000	0.000	0.000	0.000	30.448	-204.141	-204.141
12-2022	3.326	8.400	0.000	28.506	0.000	0.000	0.000	0.000	28.506	-195.039	-195.039
12-2023	3.160	8.400	0.000	26.661	0.000	0.000	0.000	0.000	26.661	-187.156	-187.156
S TOT	72.061	120.400	0.000	679.173	125.192	500.769	0.000	625.961	53.212	-187.156	-187.156
AFTER	35.984	149.800	0.000	249.476	0.000	0.000	0.000	0.000	249.476	-142.272	-142.272
TOTAL	108.045	270.200	0.000	928.649	125.192	500.769	0.000	625.961	302.688	-142.272	-142.272

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
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A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG. EXPENSE	INTEREST PAID & CAP	TAXABLE INCOME	TAX CREDIT	TAXES PAYABLE	CASH FLOW ATAX	8.0% CUM. DISC ATAX
MO-YEAR	CASH FLOW	TION								
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	500.769	0.000	-500.769	0.000	-175.269	4450.692	-418.941
12-2009	40.961	5.963	0.000	0.000	0.000	34.997	0.000	12.249	28.712	-394.008
12-2010	69.099	22.146	0.000	0.000	0.000	46.952	0.000	16.433	52.665	-351.661
12-2011	81.400	27.738	0.000	0.000	0.000	53.662	0.000	18.782	62.618	-305.040
12-2012	65.110	19.810	0.000	0.000	0.000	45.300	0.000	15.855	49.255	-271.086
12-2013	56.029	14.151	0.000	0.000	0.000	41.878	0.000	14.657	41.372	-244.678
12-2014	49.970	11.175	0.000	0.000	0.000	38.795	0.000	13.578	36.392	-223.169
12-2015	45.534	11.171	0.000	0.000	0.000	34.363	0.000	12.027	33.507	-204.833
12-2016	42.093	11.175	0.000	0.000	0.000	30.917	0.000	10.821	31.272	-188.987
12-2017	39.315	1.861	0.000	0.000	0.000	37.453	0.000	13.109	26.206	-176.692
12-2018	36.911	0.000	0.000	0.000	0.000	36.911	0.000	12.919	23.992	-166.270
12-2019	34.645	0.000	0.000	0.000	0.000	34.645	0.000	12.126	22.519	-157.211
12-2020	32.493	0.000	0.000	0.000	0.000	32.493	0.000	11.373	21.120	-149.345
12-2021	30.448	0.000	0.000	0.000	0.000	30.448	0.000	10.657	19.791	-142.520
12-2022	28.506	0.000	0.000	0.000	0.000	28.506	0.000	9.977	18.529	-136.604
12-2023	26.661	0.000	0.000	0.000	0.000	26.661	0.000	9.331	17.329	-131.480
S TOT	679.173	125.192	0.000	500.769	0.000	53.212	0.000	18.624	34.588	-131.480
AFTER	249.476	0.000	0.000	0.000	0.000	249.476	0.000	87.316	162.159	-102.305
TOTAL	928.649	125.192	0.000	500.769	0.000	302.688	0.000	105.941	196.747	-102.305

BTAX RATE OF RETURN (PCT)	4.32	ATAX RATE OF RETURN (PCT)	4.16
BTAX PAYOUT YEARS	14.40	ATAX PAY OUT YEARS	14.40
BTAX PAYOUT YEARS (DISC)	34.17	ATAX PAY OUT YEARS (DISC)	34.17
BTAX NET INCOME/INVEST	1.48	ATAX NET INCOME/INVEST	1.31
BTAX NET INCOME/INVEST(DISC)	0.76	ATAX NET INCOME/INVEST(DISC)	0.82
PRODUCTION START DATE	09/2009	PROJECT LIFE (YEARS)	34.17
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	1.733
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.733
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	333.744
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	333.744
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	302.7	196.7	302.7
2.00	129.8	81.3	112.2
5.00	-38.1	-31.7	-39.8
8.00	-142.3	-102.3	-121.8
10.00	-190.4	-135.2	-156.9
12.00	-227.1	-160.4	-182.6
15.00	-267.2	-188.1	-209.6
18.00	-295.1	-207.5	-227.6
20.00	-308.9	-217.1	-236.2
25.00	-332.1	-233.4	-249.9
30.00	-344.8	-242.4	-256.5
35.00	-351.0	-246.8	-259.0
40.00	-353.2	-248.4	-258.9
45.00	-352.7	-248.0	-257.2
50.00	-350.5	-246.4	-254.4

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
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402 "	102.00	X	M/D	5.00	EXP	B/2.5	35.00	161.519 8/2017	35.0000	3103.	1049.	
403 "	X	10.00	M/D	X	YRS	EXP	5.00	335.926 10/2041	5.0000	1049.	304.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007				
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007				
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008				
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008				
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009				
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009				
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010				
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010				
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010				
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC	0.00	10/2041		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	10/2041		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00	10/2041		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	10/2041		0.865	0.865	
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	10/2041				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	10/2041				
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00	10/2041				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	10/2041				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	10/2041				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	10/2041				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	10/2041				
914 GAS	01/2009	0	0	0	0	0	4726.89 7596.89 5029.88 #	17.354 11/2009				
915 "	X	3027.03	2852.78	2500.59	2348.89	3001.61	920.04 #	32.005 5/2010				
916 "	X	147.89	1128.24	3167.04	3061.68	2649.6	2311.92 #	44.471 11/2010				

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77 MSG	08/2008 AD	ESC INV	625.961	8/2008	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
 Field:
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:22:54
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				---PRICES---		NO. OF WELLS	---OPERATIONS, M\$---		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		20.381		0.000		17.629	0.00	2.706	1.0	0.000	47.704	47.704
12-2010		0.000		26.419		0.000		22.853	0.00	3.697	1.0	0.000	84.483	84.483
12-2011		0.000		23.912		0.000		20.684	0.00	4.733	1.0	0.000	97.893	97.893
12-2012		0.000		19.574		0.000		16.932	0.00	4.733	1.0	0.000	80.135	80.135
12-2013		0.000		17.156		0.000		14.840	0.00	4.733	1.0	0.000	70.235	70.235
12-2014		0.000		15.543		0.000		13.445	0.00	4.733	1.0	0.000	63.631	63.631
12-2015		0.000		14.362		0.000		12.423	0.00	4.733	1.0	0.000	58.795	58.795
12-2016		0.000		13.445		0.000		11.630	0.00	4.733	1.0	0.000	55.043	55.043
12-2017		0.000		12.706		0.000		10.990	0.00	4.733	1.0	0.000	52.015	52.015
12-2018		0.000		12.066		0.000		10.437	0.00	4.733	1.0	0.000	49.394	49.394
12-2019		0.000		11.462		0.000		9.915	0.00	4.733	1.0	0.000	46.925	46.925
12-2020		0.000		10.889		0.000		9.419	0.00	4.733	1.0	0.000	44.578	44.578
12-2021		0.000		10.345		0.000		8.948	0.00	4.733	1.0	0.000	42.350	42.350
12-2022		0.000		9.827		0.000		8.501	0.00	4.733	1.0	0.000	40.232	40.232
12-2023		0.000		9.336		0.000		8.076	0.00	4.733	1.0	0.000	38.220	38.220
S TOT		0.000		227.424		0.000		196.722	0.00	4.431	1.0	0.000	871.634	871.634
AFTER		0.000		106.321		0.000		91.967	0.00	4.733	1.0	0.000	435.260	435.260
TOTAL		0.000		333.744		0.000		288.689	0.00	4.527	1.0	0.000	1306.894	1306.894

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$	
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	125.192	500.769	0.000	625.961	-625.961	-583.323	
12-2009	3.944	2.800	0.000	40.961	0.000	0.000	0.000	0.000	40.961	-547.752	
12-2010	6.984	8.400	0.000	69.099	0.000	0.000	0.000	0.000	69.099	-492.191	
12-2011	8.093	8.400	0.000	81.400	0.000	0.000	0.000	0.000	81.400	-431.587	
12-2012	6.625	8.400	0.000	65.110	0.000	0.000	0.000	0.000	65.110	-386.703	
12-2013	5.807	8.400	0.000	56.029	0.000	0.000	0.000	0.000	56.029	-350.939	
12-2014	5.261	8.400	0.000	49.970	0.000	0.000	0.000	0.000	49.970	-321.406	
12-2015	4.861	8.400	0.000	45.534	0.000	0.000	0.000	0.000	45.534	-296.488	
12-2016	4.551	8.400	0.000	42.093	0.000	0.000	0.000	0.000	42.093	-275.159	
12-2017	4.300	8.400	0.000	39.315	0.000	0.000	0.000	0.000	39.315	-256.714	
12-2018	4.084	8.400	0.000	36.911	0.000	0.000	0.000	0.000	36.911	-240.679	
12-2019	3.879	8.400	0.000	34.645	0.000	0.000	0.000	0.000	34.645	-226.743	
12-2020	3.685	8.400	0.000	32.493	0.000	0.000	0.000	0.000	32.493	-214.641	
12-2021	3.501	8.400	0.000	30.448	0.000	0.000	0.000	0.000	30.448	-204.141	
12-2022	3.326	8.400	0.000	28.506	0.000	0.000	0.000	0.000	28.506	-195.039	
12-2023	3.160	8.400	0.000	26.661	0.000	0.000	0.000	0.000	26.661	-187.156	
S TOT	72.061	120.400	0.000	679.173	125.192	500.769	0.000	625.961	53.212	-187.156	
AFTER	35.984	149.800	0.000	249.476	0.000	0.000	0.000	0.000	249.476	-142.272	
TOTAL	108.045	270.200	0.000	928.649	125.192	500.769	0.000	625.961	302.688	-142.272	

PropID: 26323 RSV CAT: 1PDP
 Well Name: ROSA UNIT #041C
 Field:
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:22:54
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	MS-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATA	DISC
-----	M\$-----	M\$-----	MS-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	500.769	0.000	-500.769	0.000	-175.269	-450.692	-418.941
12-2009	40.961	5.963	0.000	0.000	0.000	34.997	0.000	12.249	28.712	-394.008
12-2010	69.099	22.146	0.000	0.000	0.000	46.952	0.000	16.433	52.665	-351.661
12-2011	81.400	27.738	0.000	0.000	0.000	53.662	0.000	18.782	62.618	-305.040
12-2012	65.110	19.810	0.000	0.000	0.000	45.300	0.000	15.855	49.255	-271.086
12-2013	56.029	14.151	0.000	0.000	0.000	41.878	0.000	14.657	41.372	-244.678
12-2014	49.970	11.175	0.000	0.000	0.000	38.795	0.000	13.578	36.392	-223.169
12-2015	45.534	11.171	0.000	0.000	0.000	34.363	0.000	12.027	33.507	-204.833
12-2016	42.093	11.175	0.000	0.000	0.000	30.917	0.000	10.821	31.272	-188.987
12-2017	39.315	1.861	0.000	0.000	0.000	37.453	0.000	13.109	26.206	-176.692
12-2018	36.911	0.000	0.000	0.000	0.000	36.911	0.000	12.919	23.992	-166.270
12-2019	34.645	0.000	0.000	0.000	0.000	34.645	0.000	12.126	22.519	-157.211
12-2020	32.493	0.000	0.000	0.000	0.000	32.493	0.000	11.373	21.120	-149.345
12-2021	30.448	0.000	0.000	0.000	0.000	30.448	0.000	10.657	19.791	-142.520
12-2022	28.506	0.000	0.000	0.000	0.000	28.506	0.000	9.977	18.529	-136.604
12-2023	26.661	0.000	0.000	0.000	0.000	26.661	0.000	9.331	17.329	-131.480
S TOT	679.173	125.192	0.000	500.769	0.000	53.212	0.000	18.624	34.588	-131.480
AFTER	249.476	0.000	0.000	0.000	0.000	249.476	0.000	87.316	162.159	-102.305
TOTAL	928.649	125.192	0.000	500.769	0.000	302.688	0.000	105.941	196.747	-102.305

BTAX RATE OF RETURN (PCT)	4.32	ATA RATE OF RETURN (PCT)	4.16
BTAX PAYOUT YEARS	14.40	ATA PAY OUT YEARS	14.40
BTAX PAYOUT YEARS (DISC)	34.17	ATA PAY OUT YEARS (DISC)	34.17
BTAX NET INCOME/INVEST	1.48	ATA NET INCOME/INVEST	1.31
BTAX NET INCOME/INVEST(DISC)	0.76	ATA NET INCOME/INVEST(DISC)	0.82

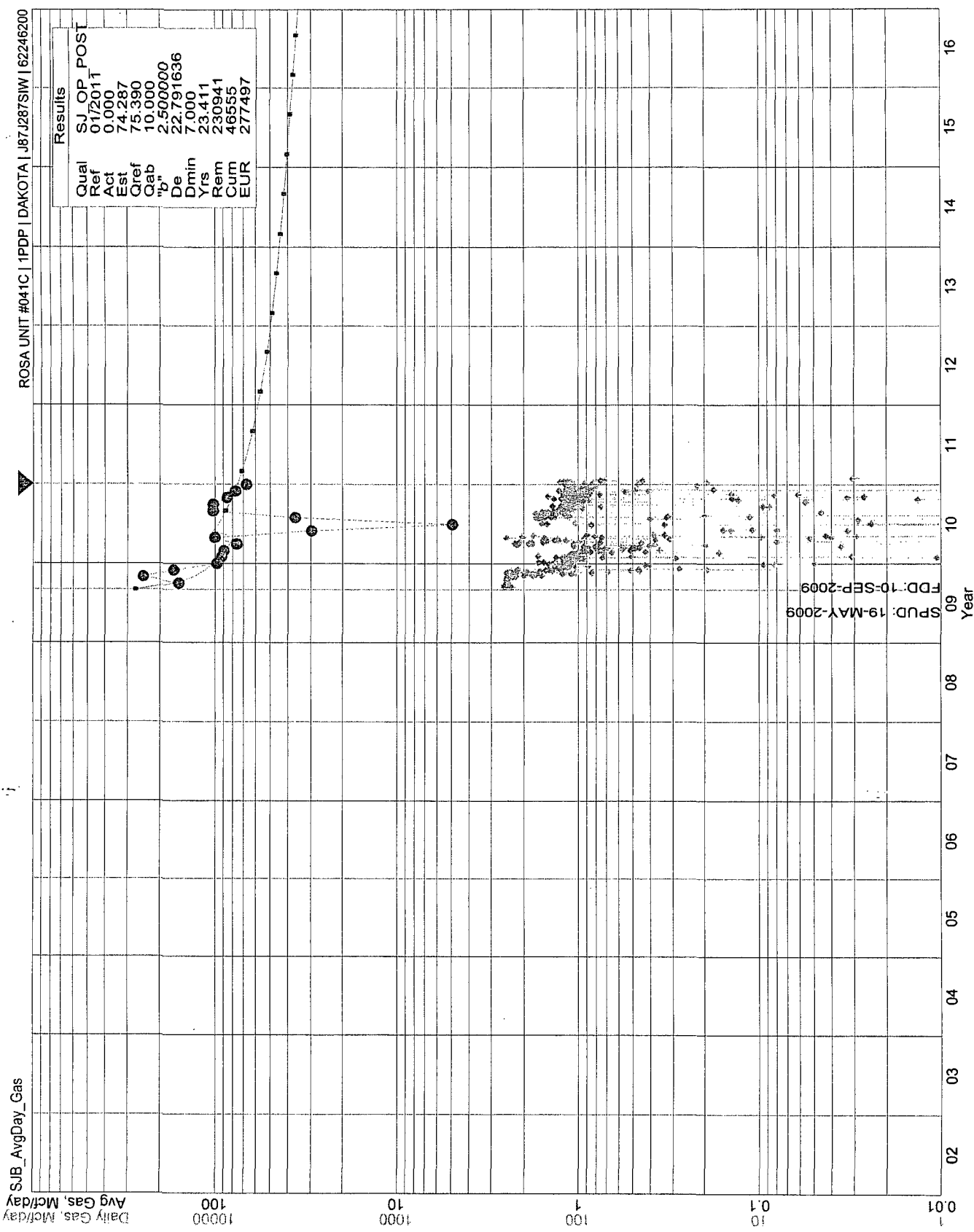
PRODUCTION START DATE	09/2009	PROJECT LIFE (YEARS)	34.17
		DISCOUNT - RATE (PCT)	8.00

INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	1.733
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.733
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.

CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	333.744
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	333.744

INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	302.7	196.7	302.7
2.00	129.8	81.3	112.2
5.00	-38.1	-31.7	-39.8
8.00	-142.3	-102.3	-121.8
10.00	-190.4	-135.2	-156.9
12.00	-227.1	-160.4	-182.6
15.00	-267.2	-188.1	-209.6
18.00	-295.1	-207.5	-227.6
20.00	-308.9	-217.1	-236.2
25.00	-332.1	-233.4	-249.9
30.00	-344.8	-242.4	-256.5
35.00	-351.0	-246.8	-259.0
40.00	-353.2	-248.4	-258.9
45.00	-352.7	-248.0	-257.2
50.00	-350.5	-246.4	-254.4



ROSA UNIT #041C | 1PDP | DAKOTA | J87J287SIW | 62246200

**ROSA UNIT #41C
BLANCO MV/BASIN MC/BASIN DK**

Surface Location:

850' FNL and 1980' FEL
NW/4 NE/4 Sec 8 (B), T31N, R05W
Rio Arriba, NM

Bottom Hole Location:

945' FSL and 1110' FEL
SE/4 SE/4 Sec 5 (P), T31N, R05W
Rio Arriba, NM

Elevation: 6348' GR
API # 30-039-30692

Spud: 05/19/09

Completed: 08/29/09

1st Delivery: 0/0/00

Top	MD Depth	TVD Depth
Pictured Cliffs	3714'	3196'
Lewis	4024'	3447'
Cliffhouse Ss.	5984'	5405'
Menefee	6029'	5449'
Point Lookout	6199'	5619'
Mancos	6752'	6171'
Dakota	8488'	7905'

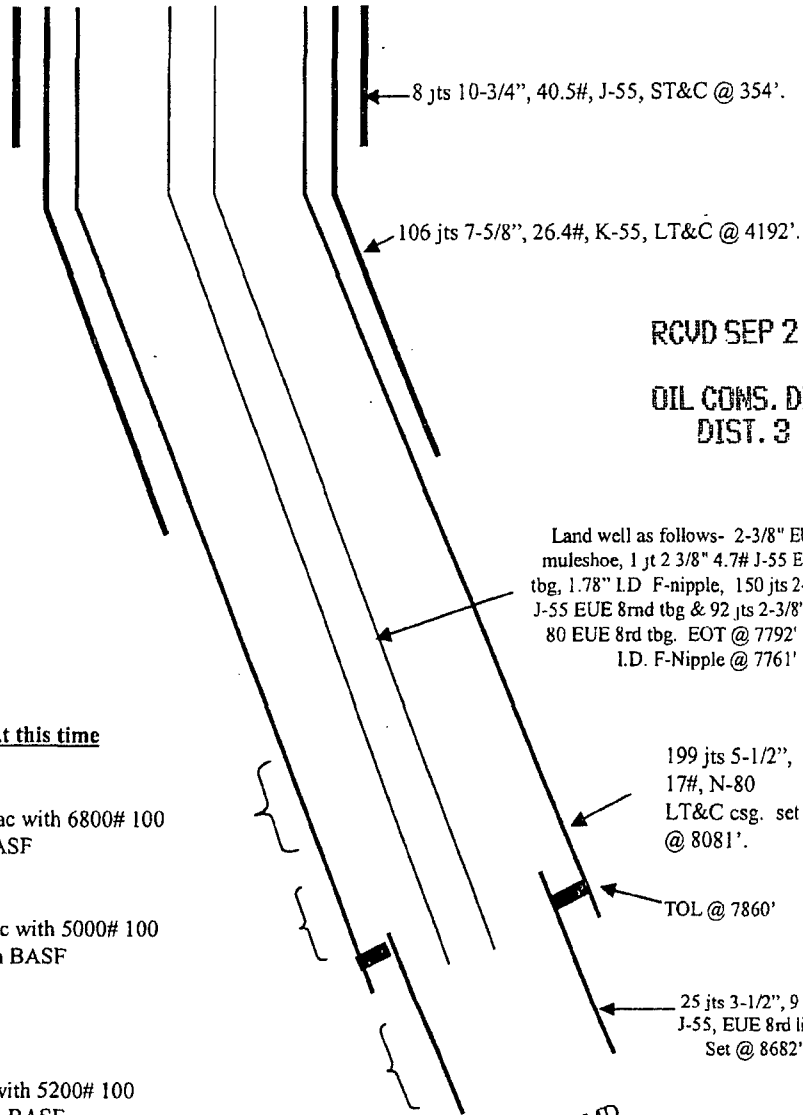
Stimulation

NOTE: Dakota and Mancos only completed at this time

Mancos 2nd: 7390' – 7630' (75, 0.34" holes) Frac with 6800# 100 mesh BASF followed w/96,300# 40/70 mesh BASF

Mancos 1st: 7705' – 7846' (60, 0.34" holes) Frac with 5000# 100 mesh BASF followed with 104,500# 40/70 mesh BASF

Dakota: 8490' – 8666' (102, 0.34" holes) Frac with 5200# 100 mesh BASF followed with 121,400# 40/70 mesh BASF



RCVD SEP 2 '09

OIL CONS. DIV.
DIST. 3

TD @ 8696' MD
TD @ 8113' TVD
PBTD @ 8659' MD
PBTD @ 8076' TVD

Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	705 sxs	1757 cu.ft.	Surface
6-3/4"	5-1/2", 17#	415 sxs	580 cu.ft.	4020' CBL
4-3/4"	3-1/2", 9.5#	50 sxs	72 cu.ft.	7980' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30692	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 41C

II. ¹⁰ Surface Location

UL or lot no. B	Section 8	Township 31N	Range 5W	Lot.Idn	Feet from the 850	North/South Line NORTH	Feet from the 1980	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. P	Section 5	Township 31N	Range 5W	Lot Idn	Feet from the 945	North/South line SOUTH	Feet from the 1110	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date RCVD SEP 2 '09				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W DIST. 3
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

IV. Well Completion Date NOTE: To be commingled with Mancos; Mesaverde to be completed at a later date

²¹ Spud Date 5-19-09	²² Ready Date 8-29-09	²³ TD 8696' MD	²⁴ PBD 8659' MD	²⁵ Perforations 8490'-8666'	²⁶ DHC, MC AZT- 3227
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 354'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4192'	705 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8081'	415 sx - 4020' (CBL)		
4-3/4"	3-1/2", 9.5#, J-55	7860' - 8682'	50 SX - 7980' (CBL)		
	2.375", 4.7#, J-55 & N-80	7792'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 8-28-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 525 lbs
³⁷ Choke Size 24/64"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 696 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>		9/10/09 OIL CONSERVATION DIVISION Approved by: <i>Charles R...</i> 9-10-09 Title: SUPERVISOR DISTRICT # 3 Approval Date: SEP 10 2009
Printed name: Larry Higgins		
Title: Drig COM		
E-mail Address: larry.higgins@williams.com		
Date: 8-31-09	Phone: 505-634-4208	<i>Bum april</i>

80

In Lieu of
Form 3160-4
(July 1992)

RECEIVED

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.
NMSF-078763

6. IF INDIAN ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #41C

9. API WELL NO.

30-039-30692-0001

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA

Sec 8, T31N, R5W

12. COUNTY OR

Rio Arriba

13. STATE

New Mexico

19. ELEVATION CASINGHEAD

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 850' FNL & 1980' FEL, sec 8, T31N, R5W

At top production interval reported below: 945' FSL & 1110' FEL, sec 5, T31N, R5W

At total depth: Same

14. PERMIT NO.

DATE ISSUED

15. DATE

SUDDEN
5-19-09

16. DATE T.D.
REACHED

6-12-09

17. DATE COMPLETED (READY TO PRODUCE)

8-29-09

15. ELEVATIONS (DK, RKB, RT, GR, ETC.)*

6348' GR

20. TOTAL DEPTH, MD & TVD

8696' MD / 8113' TVD

21. PLUG BACK T.D., MD & TVD

8659' MD

22. IF MULTICOMP.,
HOW MANY

2*

23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA 8490'-8666' MD
at later date

To be commingled with Mancos. Mesaverde to be completed

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray-Pulsed Neutro Decay Log and CBL

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
10-3/4", J-55	40.5#	354'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	4192'	9-7/8"	705 SX - SURFACE	
5-1/2", N-80	17.0#	8081'	6-3/4"	415 SX - 4020' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	7860'	8682'	50 sx		2.375", 4.7#, J-55 & N-80 EUE 8rd	7792'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: 8490'-8666' Total of 102, 0.34" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8490'-8666'	Fraced with 5200# 100 mesh BASF followed with 121,400# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tic-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
8-28-09	1 hr	24/64"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	525 lbs				696 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.). TO BE SOLD

TEST WITNESSED BY: Buddy Banks

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 far as the records

SIGNED

Carry Hagg

TITLE

Drig COM

DATE

8-31-09

ACCEPTED FOR RECORD

SEP 08 2009

FARMINGTON FIELD OFFICE
BY: J. S. Banks

38 GEOLOGIC MARKERS

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).

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3714'	3196'
					LEWIS	4024'	3447'
					CLIFFHOUSE	5984'	5405'
					MENEPEE	6029'	5449'
					POINT LOOKOUT	6199'	5619'
					MANCOS	6752'	6171'
					DAKOTA	8488'	7905'

February 24, 2011

The ROSA Unit #75D DAKOTA Formation Well (non-commercial) is located 1775 feet from the South Line and 605 feet from the West Line, Section 10 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on June 18, 2009 and completed in the Dakota formation on September 23, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8086' to 8184'. This well has a 2.375" tubing string. This well was shut in with a SICP of 350 psig. On September 23, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 1131 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #075D | 1PDP | DAKOTA | L86GIJOMYD | 62263907
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 10/2009	SJ_OP_POST
GAS 250 X M/D 6 EXP B/1.75 70	SJ_OP_POST
" X 10 M/D X YRS EXP 6	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 330.76486 370.24256 M\$G 10/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

```
Date: 02/24/2011
Time: 10:15:22
DBS: SJB
Settings: SETDATA_JCM
Scenario: SJB-OP-PostAudit
```

INITIAL CALCULATED DATA

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	330.76	370.24 M&G	10/2009 AD	ESC INV	701.007	10/2009	0	701.0	0.0

201 BTU	1.00			
202 WELLS	0.00	1.00		
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB
250 LOSS, NO				

```

Base Date   : 09/2007   Time Frames : 4*1,99*12,8
P.W. Date   : 09/2007   Primary PW% : 8.0           Discount Freq. : MID
Report Date : 09/2007
Qualifiers  : Prod = SJ_OP_POST   Price = SJ_OP_POST   Cost  = SJ_OP_POST   Owner  = BASE
              Title = BASE         Misc  = BASE         Invest = SJ OP POST   Overlay = SJ OP POST

```

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #075D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:15:22
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		16.401		0.000		14.187		0.00	3.120	1.0	0.000	44.266	44.266
12-2010	0.000		33.268		0.000		28.777		0.00	3.732	1.0	0.000	107.396	107.396
12-2011	0.000		20.723		0.000		17.925		0.00	4.805	1.0	0.000	86.122	86.122
12-2012	0.000		16.153		0.000		13.973		0.00	4.805	1.0	0.000	67.134	67.134
12-2013	0.000		13.602		0.000		11.766		0.00	4.805	1.0	0.000	56.529	56.529
12-2014	0.000		11.923		0.000		10.314		0.00	4.805	1.0	0.000	49.554	49.554
12-2015	0.000		10.715		0.000		9.269		0.00	4.805	1.0	0.000	44.532	44.532
12-2016	0.000		9.794		0.000		8.472		0.00	4.805	1.0	0.000	40.703	40.703
12-2017	0.000		9.062		0.000		7.839		0.00	4.805	1.0	0.000	37.662	37.662
12-2018	0.000		8.464		0.000		7.321		0.00	4.805	1.0	0.000	35.174	35.174
12-2019	0.000		7.950		0.000		6.877		0.00	4.805	1.0	0.000	33.040	33.040
12-2020	0.000		7.473		0.000		6.464		0.00	4.805	1.0	0.000	31.057	31.057
12-2021	0.000		7.025		0.000		6.076		0.00	4.805	1.0	0.000	29.194	29.194
12-2022	0.000		6.603		0.000		5.712		0.00	4.805	1.0	0.000	27.442	27.442
12-2023	0.000		6.207		0.000		5.369		0.00	4.805	1.0	0.000	25.796	25.796
S TOT	0.000		185.363		0.000		160.339		0.00	4.463	1.0	0.000	715.602	715.602
AFTER	0.000		38.271		0.000		33.104		0.00	4.805	1.0	0.000	159.053	159.053
TOTAL	0.000		223.634		0.000		193.443		0.00	4.522	1.0	0.000	874.655	874.655

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%			
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW	TOTAL EQUITY	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000
12-2009	3.660	2.100	0.000	38.507	330.765	370.243	0.000	701.007	-662.501			-563.719
12-2010	8.879	8.400	0.000	90.118	0.000	0.000	0.000	0.000	90.118			-491.257
12-2011	7.120	8.400	0.000	70.602	0.000	0.000	0.000	0.000	70.602			-438.693
12-2012	5.550	8.400	0.000	53.183	0.000	0.000	0.000	0.000	53.183			-402.030
12-2013	4.673	8.400	0.000	43.456	0.000	0.000	0.000	0.000	43.456			-374.292
12-2014	4.097	8.400	0.000	37.057	0.000	0.000	0.000	0.000	37.057			-352.390
12-2015	3.682	8.400	0.000	32.451	0.000	0.000	0.000	0.000	32.451			-334.632
12-2016	3.365	8.400	0.000	28.938	0.000	0.000	0.000	0.000	28.938			-319.969
12-2017	3.114	8.400	0.000	26.148	0.000	0.000	0.000	0.000	26.148			-307.701
12-2018	2.908	8.400	0.000	23.866	0.000	0.000	0.000	0.000	23.866			-297.333
12-2019	2.732	8.400	0.000	21.908	0.000	0.000	0.000	0.000	21.908			-288.520
12-2020	2.568	8.400	0.000	20.090	0.000	0.000	0.000	0.000	20.090			-281.038
12-2021	2.414	8.400	0.000	18.380	0.000	0.000	0.000	0.000	18.380			-274.700
12-2022	2.269	8.400	0.000	16.774	0.000	0.000	0.000	0.000	16.774			-269.344
12-2023	2.133	8.400	0.000	15.263	0.000	0.000	0.000	0.000	15.263			-264.831
S TOT	59.161	119.700	0.000	536.741	330.765	370.243	0.000	701.007	-164.267			-264.831
AFTER	13.149	67.900	0.000	78.004	0.000	0.000	0.000	0.000	78.004			-247.528
TOTAL	72.310	187.600	0.000	614.745	330.765	370.243	0.000	701.007	-86.263			-247.528

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #075D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:15:22
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

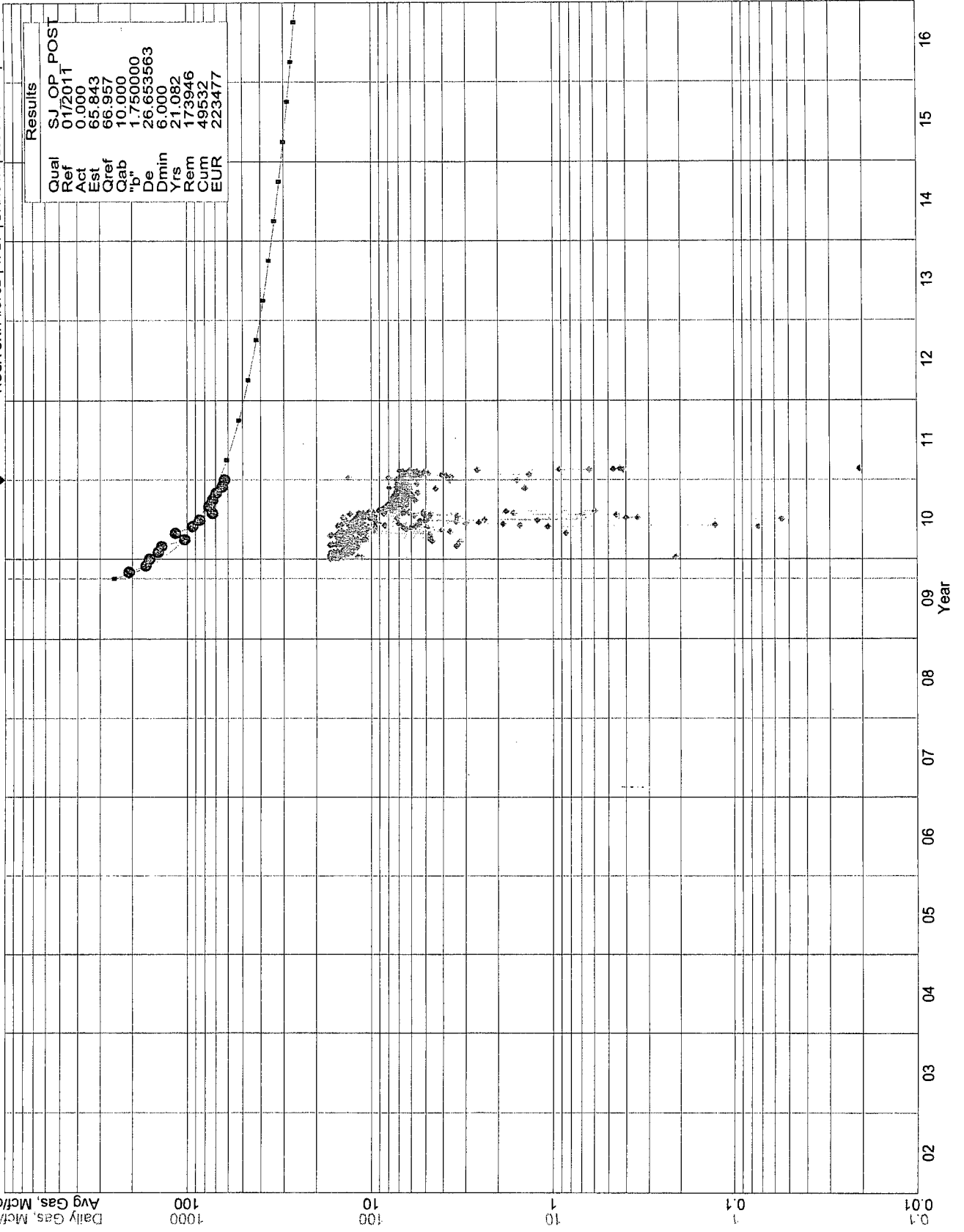
--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	38.507	12.891	0.000	370.243	0.000	-344.627	0.000	-120.619	-541.881	-458.973	-458.973
12-2010	90.118	61.377	0.000	0.000	0.000	28.741	0.000	10.059	80.058	-394.599	-394.599
12-2011	70.602	73.286	0.000	0.000	0.000	-2.684	0.000	-0.939	71.542	-341.335	-341.335
12-2012	53.183	52.338	0.000	0.000	0.000	0.845	0.000	0.296	52.888	-304.876	-304.876
12-2013	43.456	37.387	0.000	0.000	0.000	6.068	0.000	2.124	41.332	-278.494	-278.494
12-2014	37.057	29.526	0.000	0.000	0.000	7.531	0.000	2.636	34.421	-258.150	-258.150
12-2015	32.451	29.515	0.000	0.000	0.000	2.935	0.000	1.027	31.423	-240.954	-240.954
12-2016	28.938	29.526	0.000	0.000	0.000	-0.589	0.000	-0.206	29.144	-226.186	-226.186
12-2017	26.148	4.917	0.000	0.000	0.000	21.231	0.000	7.431	18.717	-217.405	-217.405
12-2018	23.866	0.000	0.000	0.000	0.000	23.866	0.000	8.353	15.513	-210.666	-210.666
12-2019	21.908	0.000	0.000	0.000	0.000	21.908	0.000	7.668	14.240	-204.938	-204.938
12-2020	20.090	0.000	0.000	0.000	0.000	20.090	0.000	7.031	13.058	-200.074	-200.074
12-2021	18.380	0.000	0.000	0.000	0.000	18.380	0.000	6.433	11.947	-195.954	-195.954
12-2022	16.774	0.000	0.000	0.000	0.000	16.774	0.000	5.871	10.903	-192.473	-192.473
12-2023	15.263	0.000	0.000	0.000	0.000	15.263	0.000	5.342	9.921	-189.539	-189.539
S TOT	536.741	330.765	0.000	370.243	0.000	-164.267	0.000	-57.493	-106.773	-189.539	-189.539
AFTER	78.004	0.000	0.000	0.000	0.000	78.004	0.000	27.301	50.703	-178.292	-178.292
TOTAL	614.745	330.765	0.000	370.243	0.000	-86.263	0.000	-30.192	-56.071	-178.292	-178.292

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	24.42	ATAX PAY OUT YEARS	24.42
BTAX PAYOUT YEARS (DISC)	24.42	ATAX PAY OUT YEARS (DISC)	24.42
BTAX NET INCOME/INVEST	0.88	ATAX NET INCOME/INVEST	0.92
BTAX NET INCOME/INVEST(DISC)	0.59	ATAX NET INCOME/INVEST(DISC)	0.70
PRODUCTION START DATE	10/2009	PROJECT LIFE (YEARS)	24.42
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.641
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.805
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	223.634
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	223.634
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-86.3	-56.1	-86.3
2.00	-149.3	-102.8	-145.6
5.00	-211.0	-149.7	-195.4
8.00	-247.5	-178.3	-220.7
10.00	-262.7	-190.7	-229.9
12.00	-272.9	-199.3	-235.3
15.00	-281.3	-207.0	-238.5
18.00	-284.1	-210.3	-237.8
20.00	-283.9	-210.9	-236.0
25.00	-278.5	-208.3	-228.5
30.00	-269.2	-202.3	-218.7
35.00	-257.9	-194.6	-208.0
40.00	-246.0	-186.1	-197.2
45.00	-233.9	-177.3	-186.6
50.00	-222.1	-168.6	-176.4

SJB_AvgDay_Gas

ROS UNIT #075D | 1PDP | DAKOTA | L86GJOMYD | 62263907



ROSA UNIT #75D ✓
BLANCO MV / BASIN MC / BASIN DK

Spud: 06/18/09

Completed: 09/23/09

1st Delivery: 0/0/00

Surface Location:

1775' FSL and 605' FWL
 NW/4 SW/4 Sec 10 (L), T31N, R06W
 San Juan, NM

Bottom Hole Location:

2218' FNL and 882' FWL
 SW/4 NW/4 Sec 17 (E), T31N, R06W
 San Juan, NM

Elevation: 6294' GR

API # 30-045-34964

Top	MD Depth	TVD Depth
Pictured Cliffs	3358'	3093'
Lewis	3757'	3487'
Cliffhouse Ss.	5580'	5309'
Menefee	5632'	5367'
Point Lookout	5849'	5578'
Mancos	6352'	6081'
Dakota	8085'	7814'

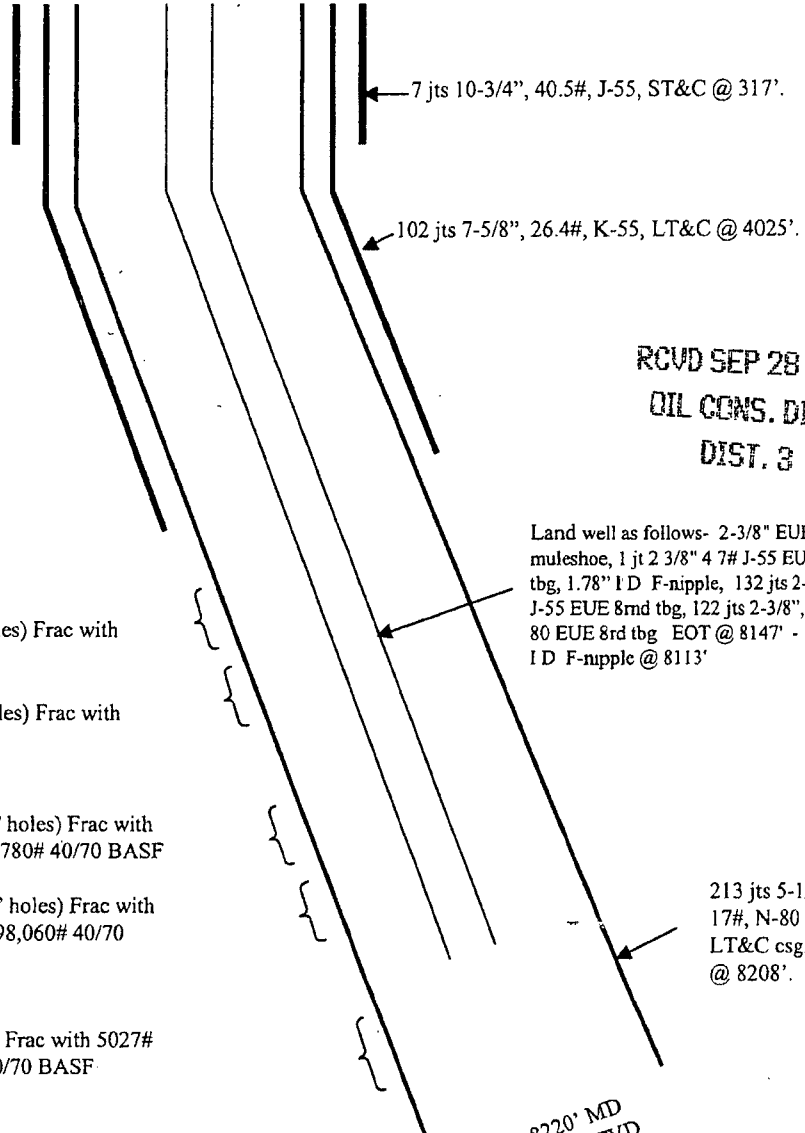
Upper MV: 5596'-5804' (54, 0.34" holes) Frac with
 79,640# 20/40 mesh BASF

Lower MV: 5853'-6123' (58, 0.34" holes) Frac with
 79,342# 20/40 mesh BASF

Upper Mancos: 7010'-7240' (72, 0.34" holes) Frac with
 5121# 100 mesh BASF followed w/107,780# 40/70 BASF

Lower Mancos: 7318'-7483' (78, 0.34" holes) Frac with
 5023# 100 mesh BASF followed with 98,060# 40/70
 BASF

Dakota 8086'-8184" (72, 0.34" holes) Frac with 5027#
 100 mesh BASF followed w/71,760# 40/70 BASF



Land well as follows- 2-3/8" EUE half
 muleshoe, 1 jt 2 3/8" 4 7# J-55 EUE 8rd
 tbg, 1.78" ID F-nipple, 132 jts 2-3/8" 4.7#
 J-55 EUE 8rd tbg, 122 jts 2-3/8", 4.7#, N-
 80 EUE 8rd tbg EOT @ 8147' - 1 78"
 ID F-nipple @ 8113'

213 jts 5-1/2",
 17#, N-80
 LT&C csg. set
 @ 8208'.

TD @ 8220' MD
 TD @ 7949' TVD
 PBTD @ 8206' MD
 PBTD @ 7935' TVD

Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	674 sxs	1684 cu.ft.	Surface
6-3/4"	5-1/2", 17#	350 sxs	489 cu.ft.	3380' CBL

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.
NMSF-078765

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.
Rosa Unit #75D

9. API WELL NO.

30-045-34964-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA
Sec 10, T31N, R6W

12. COUNTY OR
San Juan

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

1b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG-BACK ☐ DIFF. RESVR ☐ OTHER

SEP 24 2009

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

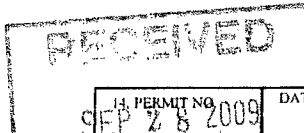
P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 1775' FSL & 605' FWL, sec 10, T31N, R6W

At top production interval reported below: 2218' FNL & 882' FWL, sec 10, T31N, R6W

At total depth: Same



15. DATE
SPUDDED
6-18-09

16. DATE T.D.
REACHED
7-2-09

17. DATE COMPLETED (READY TO PRODUCE)
9-23-09

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6294' GR

20. TOTAL DEPTH, MD & TVD
8220' MD / 7949' TVD

21. PLUG, BACK T.D., MD & TVD
8206' MD / 7935' 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 DAKOTA: 8086'-8184' MD

Commingles with Mesaverde and Mancos per AZT-3224

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	317'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	4025'	9-7/8"	674 SX - SURFACE	
5-1/2", N-80	17.0#	8208'	6-3/4"	350 SX - 3380' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8147'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 72, 0.34" holes ✓

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8086'-8184'	Fraced with 5027# 100 mesh BASF followed with 71,760# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
9-21-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	350 lb				1131 mcf/d ✓		

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Craig Ward

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

OPERATOR

DATE: 9-24-09

ACCEPTED FOR RECORD

SEP 25 2009

FARMINGTON FIELD OFFICE
BY *T. Salyers*

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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3358'	3093'
					LEWIS	3757'	3487'
					CLIFFHOUSE	5580'	5309'
					MENEFEE	5632'	5367'
					POINT LOOKOUT	5849'	5578'
					MANCOS	6352'	6081'
					DAKOTA	8085'	7814'

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34964	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 75D

II. ¹⁰ Surface Location

Ul or lot no. L	Section 10	Township 31N	Range 6W	Lot.Idn 2	Feet from the 1775	North/South Line SOUTH	Feet from the 605	East/West line WEST	County SAN JUAN

" Bottom Hole Location

UL or lot no E	Section 10	Township 31N	Range 6W	Lot Idn	Feet from the 2218	North/South line NORTH	Feet from the 882	East/West line WEST	County SAN JUAN
" Lse Code	" Producing Method Code	" Gas Connection Date	" C-129 Permit Number			" C-129 Effective Date		" C-129 Expiration Date	

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD SEP 25 '09

OIL CONS. DIV.
DIST. 3

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

³¹ Spud Date 6-18-09	³² Ready Date 9-23-09	³³ TD 8220' MD	³⁴ PBTD 8206' MD	³⁵ Perforations 8086' - 8184'	³⁶ DHC, MC AZT-3224
³⁷ Hole Size	³⁸ Casing & Tubing Size	³⁹ Depth Set		³⁰ Sacks Cement	
14-3/4"	10-3/4", 40.5#, J J-55	317'		290 sx - surface	
9-7/8"	7-5/8", 26.4#, K-55	4025'		674 sx - surface	
6-3/4"	5 1/2", 17#, N-80	8208'		350 sx - 3380' (CBL)	
	2.375", 4.7#, J-55 & N-80	8147'		NONE	

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-21-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 350 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 1131 mcf/d		⁴¹ Test Method Choke

42 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: Larry Higgins

Printed name:
Larry Higgins

Title: Drlg COM

E-mail Address:
larry.higgins@williams.com

Date: 9-24-09

Phone: 505-634-4208

9/28/69 OIL CONSERVATION DIVISION

Approved by: Charles Kerr 9-28-09

Title: SUPERVISOR DISTRICT # 3

Approval Date: SEP 28 2009

Bum and

10

February 24, 2011

The ROSA Unit #89D DAKOTA Formation Well (non-commercial) is located 600 feet from the North Line and 645 feet from the East Line, Section 34 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 21, 2009 and completed in the Dakota formation on September 28, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8482' to 8600'. This well has a 2.375" tubing string. This well was shut in with a SICP of 180 psig. On September 26, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 259 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #089D | 1PDP | DAKOTA | JAL9B21PR1 | 62260942
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 10/2009	SJ_OP_POST
GAS 130 126 M/D 11 MOS EXP X	SJ_OP_POST
" 80 X M/D 7 EXP B/2.0000 35	SJ_OP_POST
" X 10 M/D X YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 373.27442 361.54461 M\$G 07/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #089D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:12:55
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA								INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	10/2009											
401 GAS	130.00	126.00	M/D	11.00	MOS	EXP	X	42.823	8/2010	3.3519	3954.	3833.
402 "	80.00	X	M/D	7.00	EXP	B/2.0000	35.00	131.294	10/2016	35.0000	2433.	792.
403 "	X	10.00	M/D	X	YRS	EXP	7.00	212.235	1/2030	7.0000	792.	303.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007				
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007				
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008				
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008				
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009				
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009				
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010				
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010				
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010				
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00	1/2030		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC	0.00	1/2030		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	1/2030		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00	1/2030		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	1/2030		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	1/2030		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	1/2030		0.865	0.865	
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	1/2030				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	1/2030				
905 S /89	1.01	X	FRAC	TO	LIFE	MUL	89.00	1/2030				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	1/2030				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	1/2030				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	1/2030				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	1/2030				
914 GAS	01/2009	0	0	0	0	0	0	3260.4	3912.24	4214.16	#	
915 "	X	3226.32	3500.88	3866.64	3722.88	3974.88	3602.88	#	33.281	6/2010		
916 "	X	3923.32	2359.56	2444.12	2009.98	1821.68	#	45.840	11/2010			

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	373.27	361.54 M\$G	07/2009 AD	ESC	INV	734.819	7/2009	0	734.8	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.01				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12.8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #089D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:12:55
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		11.387		0.000		9.850		0.00	3.224	1.0	0.000	31.759	31.759
12-2010	0.000		36.511		0.000		31.582		0.00	3.643	1.0	0.000	115.046	115.046
12-2011	0.000		20.232		0.000		17.501		0.00	4.836	1.0	0.000	84.631	84.631
12-2012	0.000		15.670		0.000		13.555		0.00	4.836	1.0	0.000	65.549	65.549
12-2013	0.000		13.261		0.000		11.471		0.00	4.836	1.0	0.000	55.471	55.471
12-2014	0.000		11.707		0.000		10.127		0.00	4.836	1.0	0.000	48.972	48.972
12-2015	0.000		10.598		0.000		9.167		0.00	4.836	1.0	0.000	44.333	44.333
12-2016	0.000		9.755		0.000		8.438		0.00	4.836	1.0	0.000	40.805	40.805
12-2017	0.000		9.062		0.000		7.839		0.00	4.836	1.0	0.000	37.908	37.908
12-2018	0.000		8.428		0.000		7.290		0.00	4.836	1.0	0.000	35.254	35.254
12-2019	0.000		7.838		0.000		6.780		0.00	4.836	1.0	0.000	32.786	32.786
12-2020	0.000		7.289		0.000		6.305		0.00	4.836	1.0	0.000	30.491	30.491
12-2021	0.000		6.779		0.000		5.864		0.00	4.836	1.0	0.000	28.357	28.357
12-2022	0.000		6.304		0.000		5.453		0.00	4.836	1.0	0.000	26.372	26.372
12-2023	0.000		5.863		0.000		5.072		0.00	4.836	1.0	0.000	24.526	24.526
S TOT	0.000		180.685		0.000		156.293		0.00	4.493	1.0	0.000	702.260	702.260
AFTER	0.000		27.802		0.000		24.049		0.00	4.836	1.0	0.000	116.297	116.297
TOTAL	0.000		208.487		0.000		180.341		0.00	4.539	1.0	0.000	818.557	818.557

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	2.626	2.100	0.000	27.034	373.274	361.545	0.000	734.819	-707.785	-614.645		
12-2010	9.511	8.400	0.000	97.134	0.000	0.000	0.000	0.000	97.134	-536.542		
12-2011	6.997	8.400	0.000	69.235	0.000	0.000	0.000	0.000	69.235	-484.995		
12-2012	5.419	8.400	0.000	51.730	0.000	0.000	0.000	0.000	51.730	-449.334		
12-2013	4.586	8.400	0.000	42.485	0.000	0.000	0.000	0.000	42.485	-422.216		
12-2014	4.049	8.400	0.000	36.524	0.000	0.000	0.000	0.000	36.524	-400.629		
12-2015	3.665	8.400	0.000	32.267	0.000	0.000	0.000	0.000	32.267	-382.971		
12-2016	3.373	8.400	0.000	29.031	0.000	0.000	0.000	0.000	29.031	-368.261		
12-2017	3.134	8.400	0.000	26.374	0.000	0.000	0.000	0.000	26.374	-355.887		
12-2018	2.915	8.400	0.000	23.940	0.000	0.000	0.000	0.000	23.940	-345.487		
12-2019	2.711	8.400	0.000	21.676	0.000	0.000	0.000	0.000	21.676	-336.768		
12-2020	2.521	8.400	0.000	19.571	0.000	0.000	0.000	0.000	19.571	-329.479		
12-2021	2.344	8.400	0.000	17.613	0.000	0.000	0.000	0.000	17.613	-323.405		
12-2022	2.180	8.400	0.000	15.792	0.000	0.000	0.000	0.000	15.792	-318.363		
12-2023	2.028	8.400	0.000	14.098	0.000	0.000	0.000	0.000	14.098	-314.195		
S TOT	58.058	119.700	0.000	524.502	373.274	361.545	0.000	734.819	-210.317	-314.195		
AFTER	9.615	51.100	0.000	55.583	0.000	0.000	0.000	0.000	55.583	-301.166		
TOTAL	67.673	170.800	0.000	580.085	373.274	361.545	0.000	734.819	-154.734	-301.166		

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #089D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:12:55
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	FLOW	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	27.034	14.548	0.000	361.545	0.000	-349.059	0.000	-122.170	-585.615	-508.552
12-2010	97.134	69.265	0.000	0.000	0.000	27.869	0.000	9.754	87.380	-438.291
12-2011	69.235	82.705	0.000	0.000	0.000	-13.470	0.000	-4.715	73.949	-383.234
12-2012	51.730	59.064	0.000	0.000	0.000	-7.334	0.000	-2.567	54.297	-345.804
12-2013	42.485	42.192	0.000	0.000	0.000	0.292	0.000	0.102	42.382	-318.751
12-2014	36.524	33.321	0.000	0.000	0.000	3.203	0.000	1.121	35.403	-297.827
12-2015	32.267	33.309	0.000	0.000	0.000	-1.041	0.000	-0.364	32.632	-279.969
12-2016	29.031	33.321	0.000	0.000	0.000	-4.290	0.000	-1.501	30.533	-264.498
12-2017	26.374	5.549	0.000	0.000	0.000	20.824	0.000	7.289	19.085	-255.544
12-2018	23.940	0.000	0.000	0.000	0.000	23.940	0.000	8.379	15.561	-248.784
12-2019	21.676	0.000	0.000	0.000	0.000	21.676	0.000	7.587	14.089	-243.117
12-2020	19.571	0.000	0.000	0.000	0.000	19.571	0.000	6.850	12.721	-238.379
12-2021	17.613	0.000	0.000	0.000	0.000	17.613	0.000	6.164	11.448	-234.431
12-2022	15.792	0.000	0.000	0.000	0.000	15.792	0.000	5.527	10.265	-231.153
12-2023	14.098	0.000	0.000	0.000	0.000	14.098	0.000	4.934	9.164	-228.444
S TOT	524.502	373.274	0.000	361.545	0.000	-210.317	0.000	-73.611	-136.706	-228.444
AFTER	55.583	0.000	0.000	0.000	0.000	55.583	0.000	19.454	36.129	-219.975
TOTAL	580.085	373.274	0.000	361.545	0.000	-154.734	0.000	-54.157	-100.577	-219.975

BTAX RATE OF RETURN (PCT)	0.00	ATAx RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	22.42	ATAx PAY OUT YEARS	22.42
BTAX PAYOUT YEARS (DISC)	22.42	ATAx PAY OUT YEARS (DISC)	22.42
BTAX NET INCOME/INVEST	0.79	ATAx NET INCOME/INVEST	0.86
BTAX NET INCOME/INVEST(DISC)	0.53	ATAx NET INCOME/INVEST(DISC)	0.66

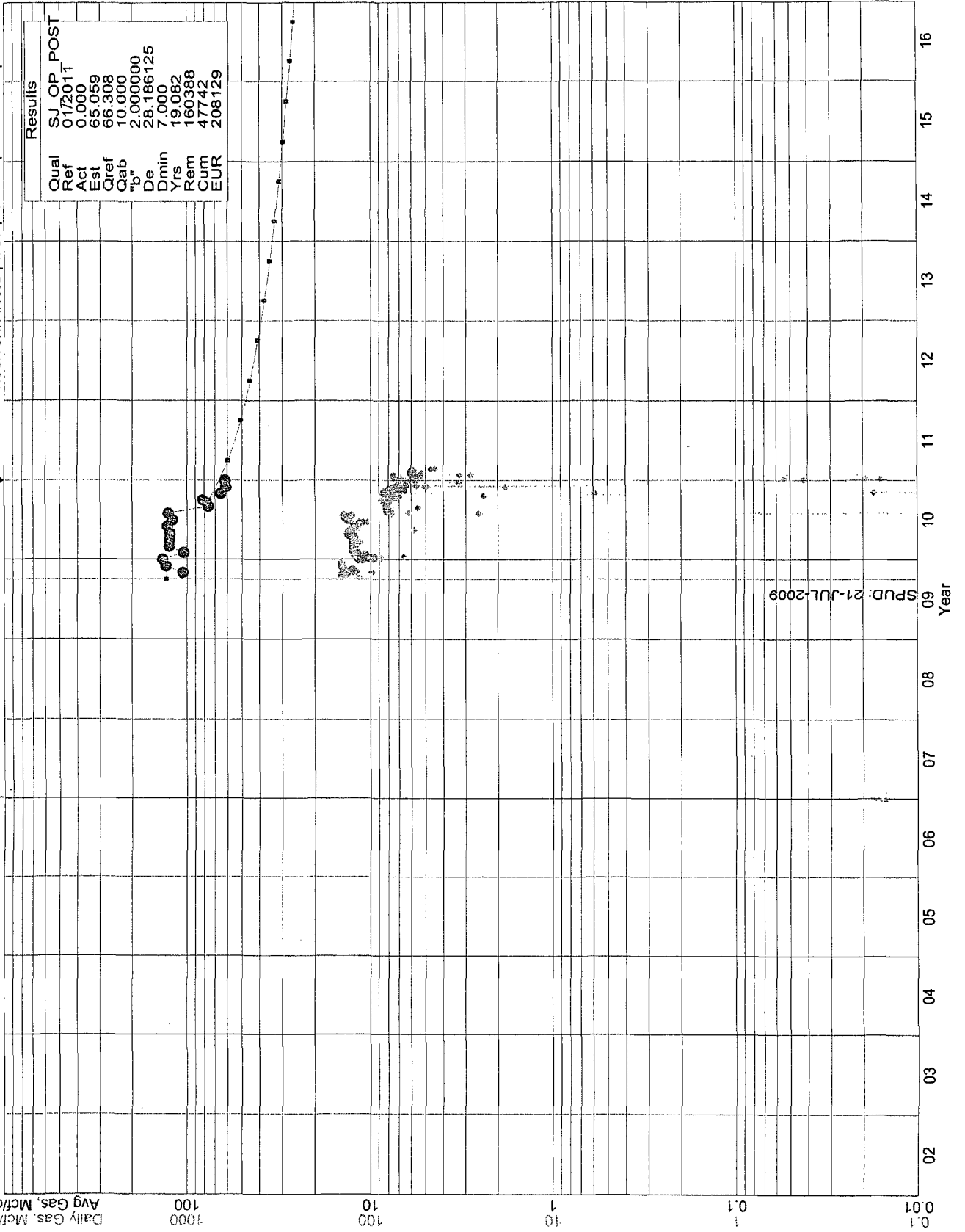
PRODUCTION START DATE	10/2009	PROJECT LIFE (YEARS)	22.42
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.658
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.836
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.

CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	208.487
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	208.487
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND --- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W. FACTOR	B.F.I.T. WORTH	A.F.I.T. WORTH	A.F.I.T. BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-154.7	-100.6	-154.7
2.00	-210.8	-144.8	-206.0
5.00	-267.0	-190.7	-250.6
8.00	-301.2	-220.0	-274.0
10.00	-315.7	-233.2	-282.9
12.00	-325.6	-242.6	-288.1
15.00	-334.0	-251.7	-291.4
18.00	-337.1	-256.3	-291.0
20.00	-337.0	-257.6	-289.4
25.00	-331.9	-256.5	-282.1
30.00	-322.7	-251.5	-272.4
35.00	-311.4	-244.4	-261.6
40.00	-299.1	-236.1	-250.4
45.00	-286.6	-227.2	-239.3
50.00	-274.2	-218.2	-228.4

SUB_AvgDay_Gas

Daily Gas, Mcf/day



ROSA UNIT #089D
BLANCO MV / BASIN MC / BASIN DK

Spud: 07/21/09

Completed: 09/28/09

1st Delivery: 10/09/09

Surface Location:

600' FNL and 645' FEL
 NE/4 NE/4 Sec 34 (A), T32N, R06W
 Rio Arriba, NM

Bottom Hole Location:

1143' FNL and 1815' FEL
 NW/4 NE/4 Sec 34 (B), T32N, R06W
 Rio Arriba, NM

Elevation: 6664' GR

API # 30-039-30783

Top	MD Depth	TVD Depth
Lewis	4026'	3749'
Cliffhouse Ss.	5962'	5684'
Menefee	6012'	5734'
Point Lookout	6211'	5933'
Mancos	6706'	6428'
Dakota	8482'	8204'

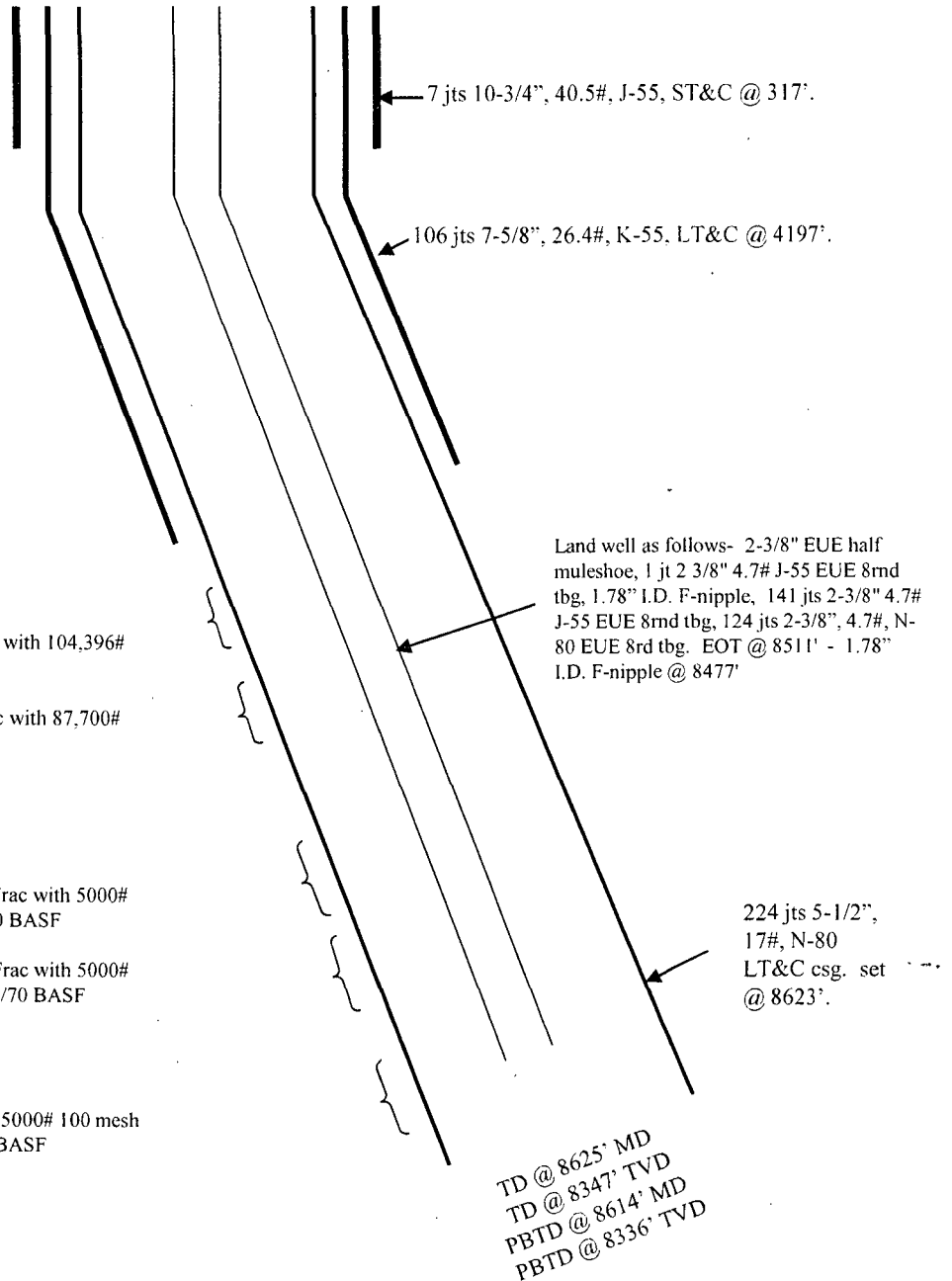
Upper MV: 5976'-6171' (43, 0.34" holes) Frac with 104,396#
 20/40 mesh BASF

Lower MV: 6203'-6516' (54, 0.34" holes) Frac with 87,700#
 20/40 mesh BASF

Upper Mancos: 7400'-7650' (78, 0.34" holes) Frac with 5000#
 100 mesh followed with 109,100# 40/70 BASF

Lower Mancos: 7700'-7840' (51, 0.34" holes) Frac with 5000#
 100 mesh BASF followed with 99,400# 40/70 BASF

Dakota: 8482'-8600' (75, 0.34" holes) Frac with 5000# 100 mesh
 BASF followed with 113,600# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	710 sxs	1783 cu.ft.	Surface
6-3/4"	5-1/2", 17#	385 sxs	538 cu.ft.	3760' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30783	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 089D

II. ¹⁰ Surface Location

UL or lot no. A	Section 34	Township 32N	Range 6W	Lot.Idn	Feet from the 600	North/South Line NORTH	Feet from the 645	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. B	Section 34	Township 32N	Range 6W	Lot Idn	Feet from the 1143	North/South line NORTH	Feet from the 1815	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD SEP 30 '09

OIL CONS. DIV.

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

DIST 3

²¹ Spud Date 7-21-09	²² Ready Date 9-28-09	²³ TD 8625' MD	²⁴ PBDT 8614' MD	²⁵ Perforations 8482'-8600'	²⁶ DHC, MC AZT-3239
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	317'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4197'	710 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8623'	385 sx -3760' (CBL)		
	2.375", 4.7#, J-55 & N-80	8511'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-26-09	³⁴ Test Length 1 hr	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 180 lb
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 259 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Larry Higgins

Printed name:
Larry Higgins

Title:
Drig COM

E-mail Address:
larry.higgins@williams.com

Date:
9-29-09

Phone:
505-634-4208

10/7/09 OIL CONSERVATION DIVISION

Approved by:

Charles Perri 10-9-09

Title: SUPERVISOR DISTRICT # 3

Approval Date: OCT 09 2009

BMM april

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078772

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #89D

9. API WELL NO.

30-039-30783-0001

10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T.R.M., OR BLOCK AND
SURVEY OR AREA

Sec 34, T32N, R6W

12. COUNTY OR

Rio Arriba

13. STATE

New Mexico

19. ELEVATION CASINGHEAD

25. WAS DIRECTIONAL SURVEY MADE

YES

27. WAS WELL CORED

No

15. DATE
SPUDDED
7-21-09

16. DATE T.D.
REACHED
8-5-09

17. DATE COMPLETED (READY TO PRODUCE)
9-28-09

14. PERMIT NO. 001

DATE ISSUED 09

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6664 GR

20. TOTAL DEPTH, MD & TVD
8625' MD / 8347' TVD

21. PLUG, BACK T.D., MD & TVD
8614' MD / 8336' TVD

22. IF MULTICOMP.,
HOW MANY
3*

23. INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 8482'-8600' MD

Commingled with Mesaverde and Mancos, per AZT-3239

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron and CBL

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
10-3/4", J-55	40.5#	317'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	4197'	9-7/8"	710 SX - SURFACE	
5-1/2", N-80	17.0#	8623'	6-3/4"	385 SX - 3760' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8511'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 75, 0.34" holes ✓

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8482'-8600'	Fraced with 5000# 100 mesh BASF followed with 113,600# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing ✓				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
9-26-09 ✓	1 hr	2"					
FLOW THG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	180 lb				259 mcf/d ✓		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Buddy Banks

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM.

ACCEPTED FOR RECORD

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

SIGNED

Larry Higgins

OPERATOR

TITLE Drig COM

DATE 9-29-09

SEP 30 2009

PERMITS AND FIELD OFFICE

BY T. Salyers

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cased 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3728'	3450'
					LEWIS	4026'	3749'
					CLIFFHOUSE	5962'	5684'
					MENEFEE	6012'	5734'
					POINT LOOKOUT	6211'	5933'
					MANCOS	6706'	6428'
					DAKOTA	8482'	8204'

February 28, 2011

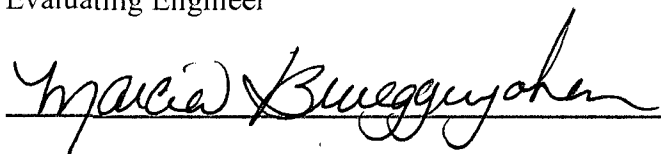
The ROSA Unit #90C DAKOTA Formation Well (non-commercial) is located 1655 feet from the North Line and 1855 feet from the East Line, Section 33 Township 32 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on October 1, 2009 and completed in the Dakota formation on November 21, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8300' to 8392'. This well has a 2.375" tubing string. This well was shut in with a SICP of 620 psig. On November 19, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 892 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #090C | 1PDP | DAKOTA | J7PKM8XSLB | 62246140
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 219 216 M/D 4 MOS EXP X	SJ_OP_POST
" 145 X M/D 3 IMO B/2.0 25	SJ_OP_POST
" X 30 M/D 2 IMO EXP X	SJ_OP_POST
" 35 X M/D 5 EXP B/2.2000 45	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 587 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.BPO_WI @M.BPO_NRI @M.BPO_NRI FRAC 1 M\$/746	BASE
" @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 359.47134 373.31543 M\$G 10/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

```
Date: 02/24/2011
Time: 10:10:08
DBS: SJB
Settings: SETDATA_JCM
Scenario: SJB-OP-PostAudit
```

Operator: WFC		COMBINED INPUT DATA					INITIAL CALCULATED DATA			
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit	Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	12/2009									
401 GAS	219.00	216.00	M/D	4.00 MOS	EXP	X	26.462 3/2010	4.0535	6661.	6570.
402 "	145.00	X	M/D	3.00 IMO	B/2.0	25.00	39.106 6/2010	25.0000	4410.	4035.
403 "	X	30.00	M/D	2.00 IMO	EXP	X	43.307 8/2010	99.9866	4035.	913.
404 "	35.00	X	M/D	5.00 EXP	B/2.2000	45.00	83.538 2/2019	45.0000	1065.	250.
405 "	X	X	M/D	30.00 YRS	EXP	5.00	121.893 11/2039	5.0000	250.	86.

500	PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M						4/2007		
501	"	X	6.627	6.827	6.197	4.987	#/M						8/2007		
502	"	X	4.587	5.117	6.057	6.497	#/M						12/2007		
503	"		01/2008	6.377	7.277	8.087	8.277	#/M					4/2008		
504	"	X	9.427	9.846	11.356	7.637	#/M						8/2008		
505	"	X	6.427	4.267	2.837	4.627	#/M						12/2008		
506	"		01/2009	4.827	3.107	2.687	2.617	#/M					4/2009		
507	"	X	2.497	2.647	2.977	3.177	#/M						8/2009		
508	"	X	2.467	3.417	4.257	4.277	#/M						12/2009		
509	"		01/2010	5.72	5.31	4.66	3.77	#/M					4/2010		
510	"	X	3.87	3.69	4.28	4.08	#/M						8/2010		
511	"	X	3.47	4.126	5.75	5.75	#/M						12/2010		
512	"		5.75	X	\$/M	TO	LIFE	PC	0.00				11/2039	5.750	5.750

600 ATX	4.69	X	%	TO	LIFE	PC	.0.00	11/2039	0.047	0.047

601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	11/2039	0.037	0.037

602 OPC/T	587.00	X	\$/M	TO	LIFE	PC	0.00	11/2039	587.000	587.000

705	LSE/WI	0.7891	D	FRAC	1.000	M\$/746	FLAT	0.00		0.789	0.789
706	" WI	0.79	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.789	0.789

720	NET/OIL	0.6817	D	FRAC	1.000	M\$/746	FLAT	0.00		0.682	0.682
721	" OIL	0.68	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.683	0.683

740	NET/GAS	0.6817	D	FRAC	1.000	M\$/746	FLAT	0.00		0.682	0.682
741	" GAS	0.68	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.683	0.683

OVERLAYS		Beginning, Ending Rates		Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901	S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	11/2039			
903	S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	11/2039			
905	S /89	1.00	X	FRAC	TO	LIFE	MUL 89.00	11/2039			
907	S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	11/2039			
909	S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	11/2039			
911	S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	11/2039			
913	S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	11/2039			

[illegible]

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	359.47	373.32 MSG	10/2009 AD	ESC INV	732.787	10/2009	0	732.7	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.00			
202 WELLS	0.00	1.00		
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB
250 LOSS NO				

PROJECT RUN SETTINGS

```

Base Date   : 09/2007   Time Frames : 4*1,99*12,8
P.W. Date   : 09/2007   Primary PW% : 8.0           Discount Freq. : MID
Report Date  : 09/2007
Qualifiers  : Prod = SJ_OP_POST   Price = SJ_OP_POST   Cost = SJ_OP_POST   Owner = BASE
              Title = BASE        Misc = BASE           Invest = SJ_OP POST  Overlay = SJ OP POST

```

PropID: 22448 RSV CAT: 1PDP
 Well Name: ROSA UNIT #090C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:10:08
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF			OIL, MBBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	6.794			0.000	4.632			0.00	3.426	1.0	0.000	15.866	15.866
12-2010	0.000	37.021			0.000	25.283			0.00	3.775	1.0	0.000	95.438	95.438
12-2011	0.000	7.608			0.000	5.196			0.00	4.789	1.0	0.000	24.882	24.882
12-2012	0.000	5.692			0.000	3.887			0.00	4.789	1.0	0.000	18.616	18.616
12-2013	0.000	4.786			0.000	3.268			0.00	4.789	1.0	0.000	15.652	15.652
12-2014	0.000	4.225			0.000	2.885			0.00	4.789	1.0	0.000	13.817	13.817
12-2015	0.000	3.832			0.000	2.617			0.00	4.789	1.0	0.000	12.532	12.532
12-2016	0.000	3.536			0.000	2.415			0.00	4.789	1.0	0.000	11.565	11.565
12-2017	0.000	3.303			0.000	2.256			0.00	4.789	1.0	0.000	10.803	10.803
12-2018	0.000	3.113			0.000	2.126			0.00	4.789	1.0	0.000	10.182	10.182
12-2019	0.000	2.953			0.000	2.017			0.00	4.789	1.0	0.000	9.657	9.657
12-2020	0.000	2.805			0.000	1.916			0.00	4.789	1.0	0.000	9.174	9.174
12-2021	0.000	2.665			0.000	1.820			0.00	4.789	1.0	0.000	8.715	8.715
12-2022	0.000	2.532			0.000	1.729			0.00	4.789	1.0	0.000	8.280	8.280
12-2023	0.000	2.405			0.000	1.643			0.00	4.789	1.0	0.000	7.866	7.866
S TOT	0.000	93.271			0.000	63.689			0.00	4.287	1.0	0.000	273.045	273.045
AFTER	0.000	9.574			0.000	6.538			0.00	4.789	1.0	0.000	31.310	31.310
TOTAL	0.000	102.844			0.000	70.227			0.00	4.334	1.0	0.000	304.355	304.355

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.312	0.463	0.000	14.091	283.644	294.568	0.000	578.213	-564.121	-480.318	-480.318
12-2010	7.890	5.558	0.000	81.990	0.000	0.000	0.000	0.000	81.990	-414.392	-414.392
12-2011	2.057	5.558	0.000	17.267	0.000	0.000	0.000	0.000	17.267	-401.536	-401.536
12-2012	1.539	5.558	0.000	11.518	0.000	0.000	0.000	0.000	11.518	-393.595	-393.595
12-2013	1.294	5.558	0.000	8.800	0.000	0.000	0.000	0.000	8.800	-387.978	-387.978
12-2014	1.142	5.558	0.000	7.116	0.000	0.000	0.000	0.000	7.116	-383.773	-383.773
12-2015	1.036	5.558	0.000	5.937	0.000	0.000	0.000	0.000	5.937	-380.523	-380.523
12-2016	0.956	5.558	0.000	5.051	0.000	0.000	0.000	0.000	5.051	-377.964	-377.964
12-2017	0.893	5.558	0.000	4.352	0.000	0.000	0.000	0.000	4.352	-375.922	-375.922
12-2018	0.842	5.558	0.000	3.782	0.000	0.000	0.000	0.000	3.782	-374.279	-374.279
12-2019	0.798	5.558	0.000	3.300	0.000	0.000	0.000	0.000	3.300	-372.952	-372.952
12-2020	0.758	5.558	0.000	2.858	0.000	0.000	0.000	0.000	2.858	-371.888	-371.888
12-2021	0.721	5.558	0.000	2.437	0.000	0.000	0.000	0.000	2.437	-371.047	-371.047
12-2022	0.685	5.558	0.000	2.037	0.000	0.000	0.000	0.000	2.037	-370.397	-370.397
12-2023	0.650	5.558	0.000	1.657	0.000	0.000	0.000	0.000	1.657	-369.907	-369.907
S TOT	22.573	78.277	0.000	172.194	283.644	294.568	0.000	578.213	-406.019	-369.907	-369.907
AFTER	2.588	25.475	0.000	3.246	0.000	0.000	0.000	0.000	3.246	-369.083	-369.083
TOTAL	25.162	103.752	0.000	175.440	283.644	294.568	0.000	578.213	-402.772	-369.083	-369.083

PropID: 22448 RSV CAT: 1PDP
 Well Name: ROSA UNIT #090C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:10:08
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

AFTER TAX ECONOMICS

EFFECTIVE DATE: 09/2007

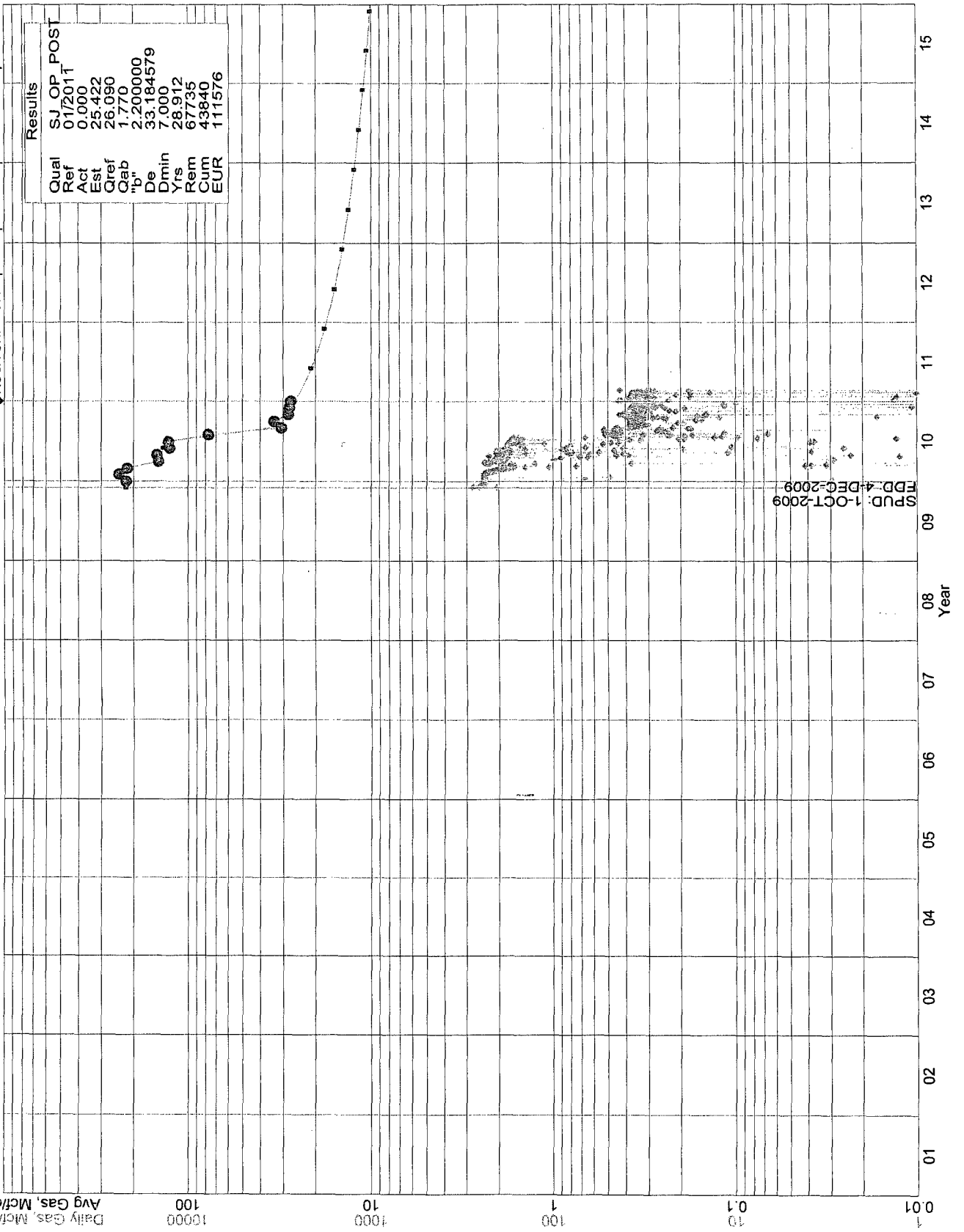
--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0% DISC
MO-YEAR	CASH FLOW			EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATA	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	14.091	4.504	0.000	294.568	0.000	-284.981	0.000	-99.743	-464.378	-393.700
12-2010	81.990	59.184	0.000	0.000	0.000	22.806	0.000	7.982	74.008	-334.192
12-2011	17.267	62.846	0.000	0.000	0.000	-45.579	0.000	-15.953	33.220	-309.459
12-2012	11.518	44.882	0.000	0.000	0.000	-33.364	0.000	-11.677	23.196	-293.469
12-2013	8.800	32.061	0.000	0.000	0.000	-23.261	0.000	-8.141	16.941	-282.655
12-2014	7.116	25.320	0.000	0.000	0.000	-18.204	0.000	-6.371	13.487	-274.684
12-2015	5.937	25.311	0.000	0.000	0.000	-19.373	0.000	-6.781	12.718	-267.724
12-2016	5.051	25.320	0.000	0.000	0.000	-20.269	0.000	-7.094	12.145	-261.570
12-2017	4.352	4.217	0.000	0.000	0.000	0.135	0.000	0.047	4.305	-259.550
12-2018	3.782	0.000	0.000	0.000	0.000	3.782	0.000	1.324	2.458	-258.482
12-2019	3.300	0.000	0.000	0.000	0.000	3.300	0.000	1.155	2.145	-257.620
12-2020	2.858	0.000	0.000	0.000	0.000	2.858	0.000	1.000	1.857	-256.928
12-2021	2.437	0.000	0.000	0.000	0.000	2.437	0.000	0.853	1.584	-256.382
12-2022	2.037	0.000	0.000	0.000	0.000	2.037	0.000	0.713	1.324	-255.959
12-2023	1.657	0.000	0.000	0.000	0.000	1.657	0.000	0.580	1.077	-255.640
S TOT	172.194	283.644	0.000	294.568	0.000	-406.019	0.000	-142.107	-263.912	-255.640
AFTER	3.246	0.000	0.000	0.000	0.000	3.246	0.000	1.136	2.110	-255.105
TOTAL	175.440	283.644	0.000	294.568	0.000	-402.772	0.000	-140.970	-261.802	-255.105

BTAX RATE OF RETURN (PCT)	0.00	ATA RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	20.92	ATA PAY OUT YEARS	20.92	---- RATE-OF-RETURN VS. BONUS TABLE ---			
BTAX PAYOUT YEARS (DISC)	20.92	ATA PAY OUT YEARS (DISC)	20.92	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	0.30	ATA NET INCOME/INVEST	0.55	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST(DISC)	0.25	ATA NET INCOME/INVEST(DISC)	0.48	%-----	M\$-----	M\$-----	M\$-----
PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	20.92	0.00	-402.8	-261.8	-402.8
		DISCOUNT - RATE (PCT)	8.00	2.00	-395.6	-262.1	-377.9
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.426	5.00	-382.9	-259.8	-349.5
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.789	8.00	-369.1	-255.1	-327.0
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.	10.00	-359.6	-251.1	-314.0
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000	12.00	-350.1	-246.7	-302.1
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	102.844	15.00	-335.9	-239.5	-286.0
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	102.844	18.00	-322.1	-231.9	-271.4
INITIAL WI (PCT)	78.906	FINAL WI (PCT)	78.906	20.00	-313.2	-226.7	-262.4
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000	25.00	-291.9	-213.7	-241.8
INITIAL NET GAS (PCT)	68.168	FINAL NET GAS (PCT)	68.293	30.00	-272.2	-201.0	-223.6
				35.00	-254.1	-189.0	-207.3
				40.00	-237.6	-177.6	-192.7
				45.00	-222.5	-167.0	-179.6
				50.00	-208.6	-157.1	-167.7

SJB_AvgDay_Gas

Daily Gas, Mct/day

Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	25.422
Qref	26.090
Qab	1.770
"b"	2.200000
De	33.184579
Dmin	7.000
Yrs	28.912
Rem	67735
Cum	43840
EUR	111576



SPUD: 1-OCT-2009
FDD: 4-DEC-2009

ROSA UNIT COM #90C

BLANCO MV / BASIN MC / BASIN DK

Spud: 10/01/09

Completed: 11/21/09

1st Delivery: 12/04/09

Surface Location:

1655' FNL and 1855' FEL
SE/4 NE/4 Sec 33 (G), T32N, R06W
San Juan, NM

Bottom Hole Location:

859' FNL and 950' FEL
NE/4 NE/4 Sec 33 (A), T32N, R06W
San Juan, NM

Elevation: 6383' GR

API # 30-045-34278

Top	MD Depth	TVD Depth
Lewis	3856'	3487'
Cliffhouse Ss.	5766'	5393'
Point Lookout	6011'	5638'
Mancos	6499'	6126'
Graneros	8161'	7783'
Dakota	8299'	7913'

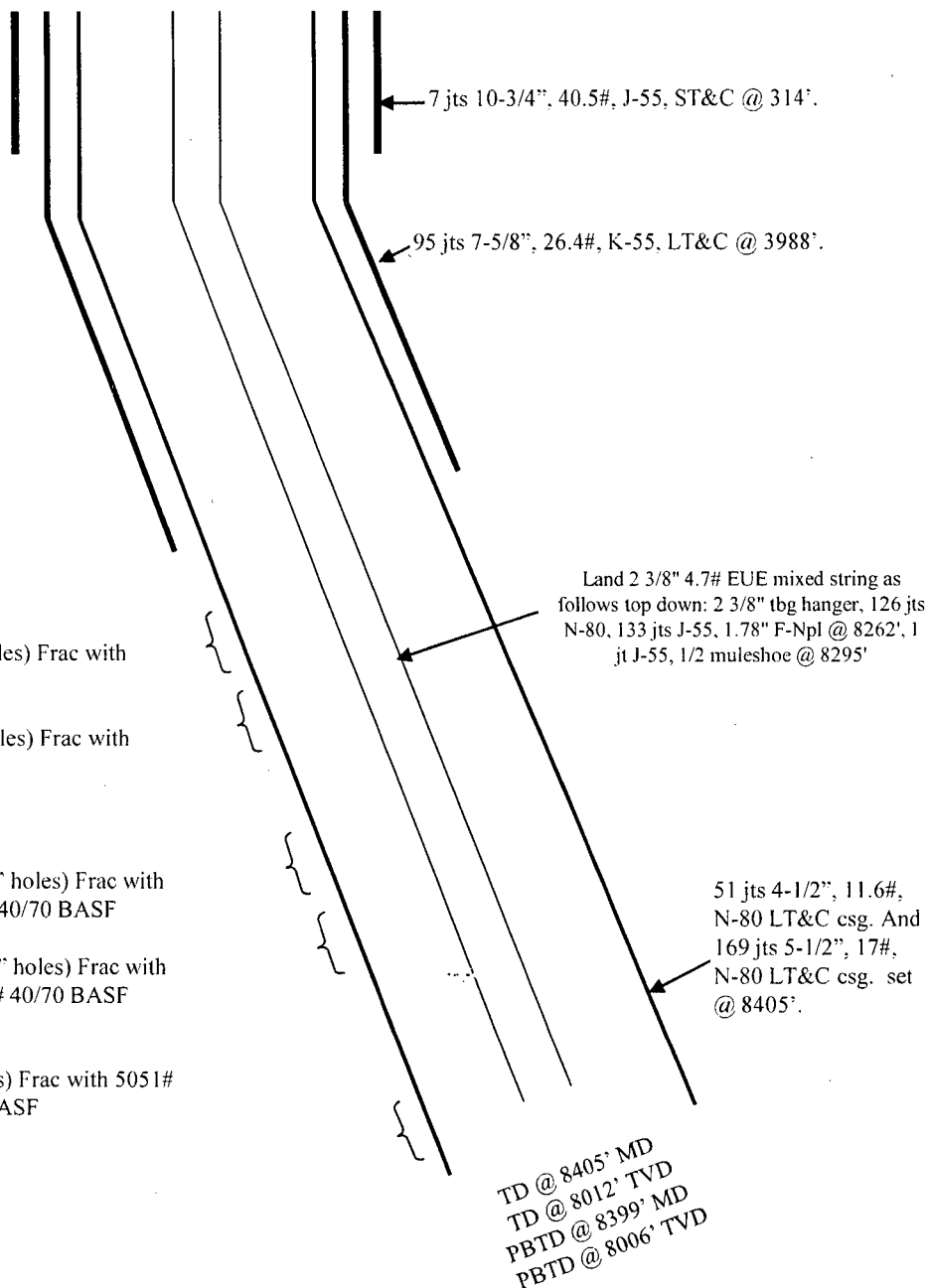
Upper MV: 5620'-5904' (54, 0.34" holes) Frac with 82,775# 20/40 mesh BASF

Lower MV: 6014'-6402' (56, 0.34" holes) Frac with 82,214# 20/40 mesh BASF

Upper Mancos: 7200'-7440' (75, 0.34" holes) Frac with 4993# 100 mesh followed w/117,602# 40/70 BASF

Lower Mancos: 7490'-7730' (78, 0.34" holes) Frac with 6045# 100 mesh followed with 99,824# 40/70 BASF

Dakota: 8300' - 8392' (72, 0.34" holes) Frac with 5051# 100 mesh followed w/85,363# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	1040 sxs	2502 cu.ft.	Surface
6-3/4"	5-1/2", 17#			
6-3/4"	4-1/2", 11.6#	590 sxs	826 cu.ft.	1950' CBL

Production casing is a mixed string of 51 jts 4-1/2" & 169 jts 5-1/2"

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34278	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17212	⁸ Property Name ROSA UNIT COM	⁹ Well Number 90C

II. ¹⁰ Surface Location

Ul or lot no. G	Section 33	Township 32N	Range 6W	Lot Idn	Feet from the 1655	North/South Line NORTH	Feet from the 1855	East/West line EAST	County SAN JUAN

¹¹ Bottom Hole Location

UL or lot no. A	Section 33	Township 32N	Range 6W	Lot Idn	Feet from the 859	North/South line NORTH	Feet from the 950	East/West line EAST	County SAN JUAN
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD NOV 24 '09

OIL CONS. DIV.
DIST. 3

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

²¹ Spud Date 10-1-09	²² Ready Date 11-21-09	²³ TD 8405' MD	²⁴ PBTD 8399' MD	²⁵ Perforations 8300'-8392'	²⁶ DHC, MC AZT-3281
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 314'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3988'	1040 sx - surface		
6-3/4"	5-1/2", 17#, N-80	Production csg mix of 169 joints	5-1/2" & 51 jts 4-1/2"		
6-3/4"	4-1/2", 11.6#, N-80	8405'	590 sx -1950' (CBL)		
	2.375", 4.7#, J-55 & N-80	8295'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-19-09	³⁴ Test Length 2 hr	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 620 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 892 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Larry Higgins

Title:

Drig COM

E-mail Address:

larry.higgins@williams.com

Date:

11-23-09

Phone:

505-634-4208

12-1-09

OIL CONSERVATION DIVISION

Approved by:

Charles New 12-03-09

Title:

SUPERVISOR DISTRICT # 3

Approval Date:

DEC 03 2009

BHM april

8

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE

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

(See other instructions on
reverse side)

DESIGNATION AND LEASE NO.
NMSF ~~0776~~ 037732

WELL COMPLETION OR RECOMPLETION REPORT AND LOG NOV 23 2019

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER	Bureau of Land Management Farmington Field Office	7. UNIT AGREEMENT NAME Rosa Unit
b. TYPE OF COMPLETION: ☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER		Need CA
2. NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY		8. FARM OR LEASE NAME, WELL NO. Rosa Unit COM #90C
3. ADDRESS AND TELEPHONE NO. P.O. Box 640, Aztec, NM 87410 (505) 634-4208		9. API WELL NO. 30-045-34278-06C1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface: 1655' FNL & 1855' FEL, sec 33, T32N, R6W At top production interval reported below: 859' FNL & 950' FEL, sec 33, T32N, R6W At total depth: Same		10. FIELD AND POOL, OR WILDCAT Basin Dakota
		11. SEC., T., R., M. OR BLOCK AND SURVEY OR AREA Sec 33, T32N, R6W
		12. COUNTY OR San Juan
		13. STATE New Mexico
15. DATE SPUDDED 10-1-09	16. DATE T.D. REACHED 10-17-09	17. DATE COMPLETED (READY TO PRODUCE) 11-21-09
18. ELEVATIONS (DK, RKB, RT, GR, ETC.) 6383' GR	19. ELEVATION CASINGHEAD	
20. TOTAL DEPTH, MD & TVD 8405' MD / 8012' TVD	21. PLUG BACK T.D., MD & TVD 8399' MD / 8006' TVD	22. IF MULTICOMBS HOW MANY 3*
23. INTERVALS DRILLED BY	ROTARY TOOLS x	CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA: 8300' - 8392' MD Commingled with Mesaverde and Mancos per AZT-3281	25. WAS DIRECTIONAL SURVEY MADE YES	27. WAS WELL CORED No
26. TYPE ELECTRIC AND OTHER LOGS RUN Aray Induction, Compensated Gamma Ray-Density-Neutron, Ultra Sonic Gas Detector and CBL		

28. CASING REPORT (Report all strings set in well) NOTE: production casing is mixed string of 51 jts 4-1/2" (6433'-8405') & 169 jts 5-1/2" (surface-6433')					
CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", J-55	40.5#	314'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3988'	9-7/8"	1040 SX - SURFACE	
5-1/2", N-80	17.0#	SEE BELOW	9-7/8"	SEE BELOW	
4-1/2", N-80	11.6#	8405'	6-3/4"	590 SX - 1950' (CBL)	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8295'	none

31. PERFORATION RECORD (Interval, size, and number) Dakota: Total of 72, 0.34" holes				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				8300' - 8392'	Fraced with 5051# 100 mesh BASF followed with 85,363# 40/70 mesh BASF		

33. PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
DATE OF FIRST PRODUCTION		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
11-19-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	620 lb				892 mcf/d		

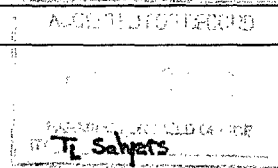
34. DISPOSITION OF GAS (Suhd, used for fuel, vented, etc.): TO RE SOLD

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM.

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

SIGNED Larry Haggis TITLE Drle COM DATE 11/23/09

OPERATOR



37. SUMMARY OF FORCLOS 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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					LEWIS	3856'	3487'
					CLIFFHOUSE	5766'	5393'
					POINT LOOKOUT	6011'	5638'
					MANCOS	6499'	6126'
					GRANEROS	8161'	7783'
					DAKOTA	8299'	7913'

February 28, 2011

The ROSA Unit #91D DAKOTA Formation Well (non-commercial) is located 1055 feet from the South Line and 250 feet from the East Line, Section 35 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 22, 2009 and completed in the Dakota formation on October 27, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8062' to 8158'. This well has a 2.375" tubing string. This well was shut in with a SICP of 300 psig. On October 25, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 451 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #091D | 1PDP | DAKOTA | JAL9B4BQS1 | 62260949
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 143 133 M/D 7 MOS EXP X	SJ_OP_POST
" 116 X M/D 5 EXP B/2.0000 65	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.19 500.769 M\$G 09/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDF
 Well Name: ROSA UNIT #091D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 10:07:46
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA											INITIAL CALCULATED DATA			
KEYWORD & Ref. Code	Beginning, Ending Rates					Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	11/2009													
401 GAS	143.00	133.00	M/D	7.00	MOS	EXP	X	29.370	5/2010	11.6865	4350.	4045.		
402 "	116.00	X	M/D	5.00	EXP	B/2.0000	65.00	116.204	12/2019	65.0000	3528.	423.		
403 "	X	X	M/D	30.00	YRS	EXP	5.00	179.351	10/2039	5.0000	423.	153.		
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007						
501 "	X	6.627	6.827	6.197	4.987	#/M		8/2007						
502 "	X	4.587	5.117	6.057	6.497	#/M		12/2007						
503 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008						
504 "	X	9.427	9.846	11.356	7.637	#/M		8/2008						
505 "	X	6.427	4.267	2.837	4.627	#/M		12/2008						
506 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009						
507 "	X	2.497	2.647	2.977	3.177	#/M		8/2009						
508 "	X	2.467	3.417	4.257	4.277	#/M		12/2009						
509 "	01/2010	5.72	5.31	4.66	3.77	#/M		4/2010						
510 "	X	3.87	3.69	4.28	4.08	#/M		8/2010						
511 "	X	3.47	4.126	5.75	5.75	#/M		12/2010						
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	10/2039		5.750	5.750		
600 ATX	4.69	X	%	TO	LIFE	PC	0.00		10/2039		0.047	0.047		
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		10/2039		0.037	0.037		
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00		10/2039		700.000	700.000		
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00		10/2039		1.000	1.000		
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		10/2039		0.865	0.865		
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		10/2039		0.865	0.865		
OVERLAYS	Beginning, Ending Rates					Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		10/2039					
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		10/2039					
905 S /89	0.98	X	FRAC	TO	LIFE	MUL	89.00		10/2039					
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		10/2039					
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		10/2039					
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		10/2039					
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		10/2039					
914 GAS	01/2009	0	0	0	0	0	0	0	2974.08	4457.04	4342.32	#		
915 "	X	4025.04	4463.28	4029.36	4143.36	215.28	3598.08	#	11.773	1/2010				
916 "	X	4025.04	4463.28	4029.36	4143.36	215.28	3598.08	#	32.248	7/2010				
916 "	X	2488.81	0	#					34.737	9/2010				

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77 M\$G	09/2009 AD	ESC INV	625.959	9/2009	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.98
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #091D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:07:46
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		7.431		0.000		6.428	0.00	3.356	1.0	0.000	21.571	21.571
12-2010		0.000		32.449		0.000		28.068	0.00	3.709	1.0	0.000	104.118	104.118
12-2011		0.000		14.628		0.000		12.654	0.00	4.700	1.0	0.000	59.466	59.466
12-2012		0.000		10.679		0.000		9.237	0.00	4.700	1.0	0.000	43.411	43.411
12-2013		0.000		8.839		0.000		7.645	0.00	4.700	1.0	0.000	35.930	35.930
12-2014		0.000		7.712		0.000		6.671	0.00	4.700	1.0	0.000	31.349	31.349
12-2015		0.000		6.930		0.000		5.995	0.00	4.700	1.0	0.000	28.171	28.171
12-2016		0.000		6.347		0.000		5.490	0.00	4.700	1.0	0.000	25.800	25.800
12-2017		0.000		5.890		0.000		5.095	0.00	4.700	1.0	0.000	23.942	23.942
12-2018		0.000		5.519		0.000		4.774	0.00	4.700	1.0	0.000	22.436	22.436
12-2019		0.000		5.211		0.000		4.508	0.00	4.700	1.0	0.000	21.183	21.183
12-2020		0.000		4.945		0.000		4.278	0.00	4.700	1.0	0.000	20.104	20.104
12-2021		0.000		4.698		0.000		4.064	0.00	4.700	1.0	0.000	19.099	19.099
12-2022		0.000		4.463		0.000		3.861	0.00	4.700	1.0	0.000	18.144	18.144
12-2023		0.000		4.240		0.000		3.668	0.00	4.700	1.0	0.000	17.236	17.236
S TOT		0.000		129.981		0.000		112.434	0.00	4.376	1.0	0.000	491.961	491.961
AFTER		0.000		36.656		0.000		31.707	0.00	4.700	1.0	0.000	149.009	149.009
TOTAL		0.000		166.637		0.000		144.141	0.00	4.447	1.0	0.000	640.970	640.970
--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----						8.0% DISC			
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$				
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
12-2009	1.783	1.400	0.000	18.388	125.190	500.769	0.000	625.959	-607.571	-520.691				
12-2010	8.608	8.400	0.000	87.110	0.000	0.000	0.000	0.000	87.110	-450.647				
12-2011	4.916	8.400	0.000	46.150	0.000	0.000	0.000	0.000	46.150	-416.288				
12-2012	3.589	8.400	0.000	31.422	0.000	0.000	0.000	0.000	31.422	-394.627				
12-2013	2.970	8.400	0.000	24.560	0.000	0.000	0.000	0.000	24.560	-378.950				
12-2014	2.592	8.400	0.000	20.357	0.000	0.000	0.000	0.000	20.357	-366.918				
12-2015	2.329	8.400	0.000	17.442	0.000	0.000	0.000	0.000	17.442	-357.373				
12-2016	2.133	8.400	0.000	15.267	0.000	0.000	0.000	0.000	15.267	-349.637				
12-2017	1.979	8.400	0.000	13.563	0.000	0.000	0.000	0.000	13.563	-343.274				
12-2018	1.855	8.400	0.000	12.182	0.000	0.000	0.000	0.000	12.182	-337.982				
12-2019	1.751	8.400	0.000	11.032	0.000	0.000	0.000	0.000	11.032	-333.544				
12-2020	1.662	8.400	0.000	10.042	0.000	0.000	0.000	0.000	10.042	-329.805				
12-2021	1.579	8.400	0.000	9.120	0.000	0.000	0.000	0.000	9.120	-326.660				
12-2022	1.500	8.400	0.000	8.244	0.000	0.000	0.000	0.000	8.244	-324.027				
12-2023	1.425	8.400	0.000	7.411	0.000	0.000	0.000	0.000	7.411	-321.836				
S TOT	40.672	119.000	0.000	332.289	125.190	500.769	0.000	625.959	-293.670	-321.836				
AFTER	12.319	99.400	0.000	37.290	0.000	0.000	0.000	0.000	37.290	-313.720				
TOTAL	52.991	218.400	0.000	369.579	125.190	500.769	0.000	625.959	-256.380	-313.720				

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #091D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 10:07:46
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

AFTER TAX ECONOMICS

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG. EXPENSED	INTEREST PAID & CAP	TAXABLE INCOME	TAX CREDIT	TAXES PAYABLE	CASH FLOW ATAX	8.0% CUM. DISC ATAX
MO-YEAR	CASH FLOW	TION	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	18.388	3.578	0.000	500.769	0.000	-485.959	0.000	-170.086	-437.485	-372.987
12-2010	87.110	24.531	0.000	0.000	0.000	62.579	0.000	21.903	65.207	-320.555
12-2011	46.150	27.738	0.000	0.000	0.000	18.412	0.000	6.444	39.705	-290.994
12-2012	31.422	19.809	0.000	0.000	0.000	11.613	0.000	4.065	27.358	-272.134
12-2013	24.560	14.151	0.000	0.000	0.000	10.409	0.000	3.643	20.916	-258.783
12-2014	20.357	11.175	0.000	0.000	0.000	9.182	0.000	3.214	17.144	-248.651
12-2015	17.442	11.171	0.000	0.000	0.000	6.271	0.000	2.195	15.247	-240.307
12-2016	15.267	11.175	0.000	0.000	0.000	4.092	0.000	1.432	13.835	-233.296
12-2017	13.563	1.861	0.000	0.000	0.000	11.702	0.000	4.096	9.467	-228.855
12-2018	12.182	0.000	0.000	0.000	0.000	12.182	0.000	4.264	7.918	-225.415
12-2019	11.032	0.000	0.000	0.000	0.000	11.032	0.000	3.861	7.171	-222.531
12-2020	10.042	0.000	0.000	0.000	0.000	10.042	0.000	3.515	6.527	-220.100
12-2021	9.120	0.000	0.000	0.000	0.000	9.120	0.000	3.192	5.928	-218.055
12-2022	8.244	0.000	0.000	0.000	0.000	8.244	0.000	2.885	5.358	-216.344
12-2023	7.411	0.000	0.000	0.000	0.000	7.411	0.000	2.594	4.817	-214.920
S TOT	332.289	125.190	0.000	500.769	0.000	-293.670	0.000	-102.785	-190.886	-214.920
AFTER	37.290	0.000	0.000	0.000	0.000	37.290	0.000	13.052	24.239	-209.645
TOTAL	369.579	125.190	0.000	500.769	0.000	-256.380	0.000	-89.733	-166.647	-209.645

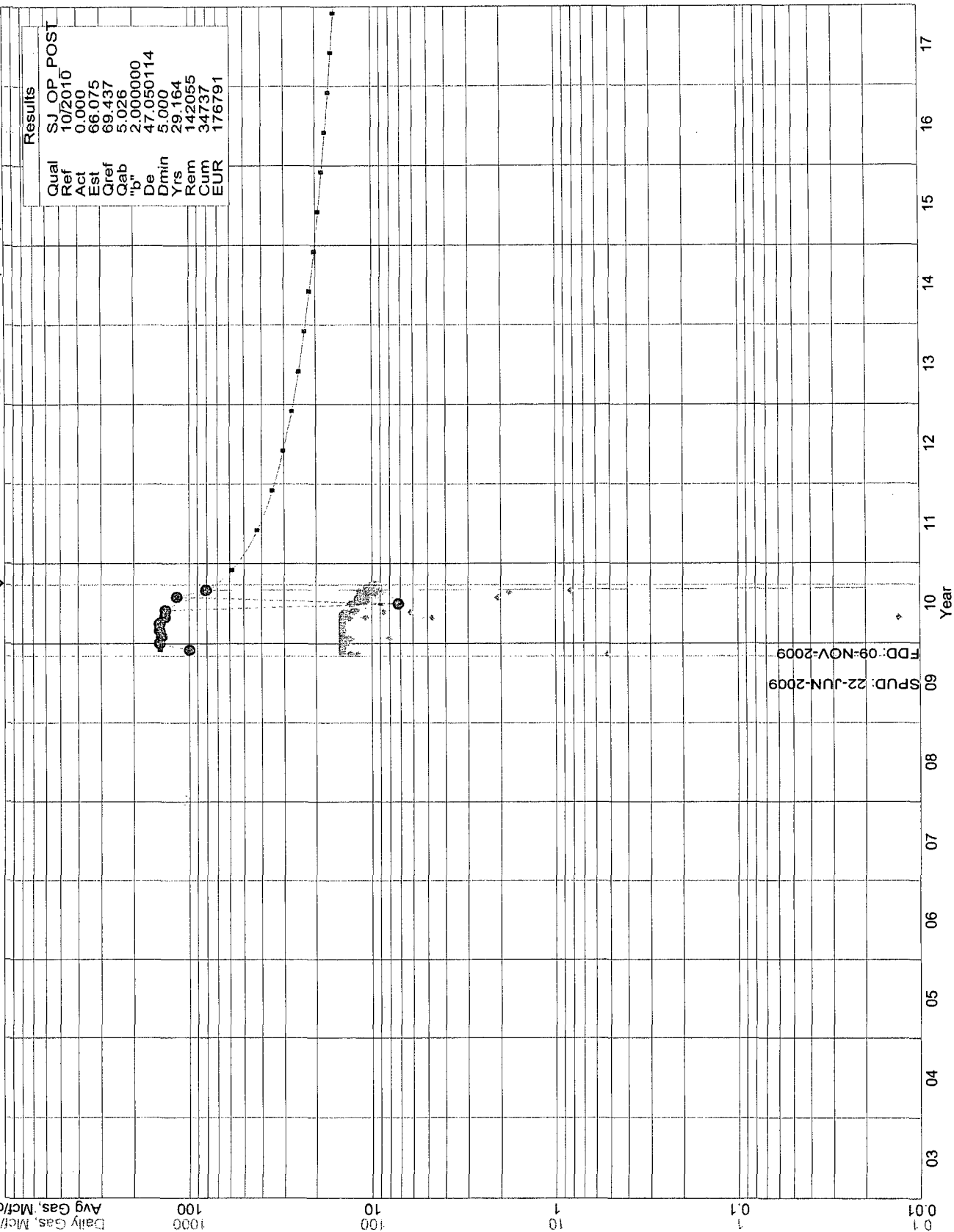
BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	28.17	ATAX PAY OUT YEARS	28.17
BTAX PAYOUT YEARS (DISC)	28.17	ATAX PAY OUT YEARS (DISC)	28.17
BTAX NET INCOME/INVEST	0.59	ATAX NET INCOME/INVEST	0.73
BTAX NET INCOME/INVEST(DISC)	0.42	ATAX NET INCOME/INVEST(DISC)	0.61

PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	28.17
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.345
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.700
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.

CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	166.637
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	166.637

INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND --- RATE-OF-RETURN VS. BONUS TABLE ---			
P.W. FACTOR	B.F.I.T. WORTH	A.F.I.T. WORTH	A.F.I.T. BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-256.4	-166.6	-256.4
2.00	-281.7	-185.1	-260.7
5.00	-303.8	-201.6	-261.2
8.00	-313.7	-209.6	-257.5
10.00	-316.1	-211.9	-253.8
12.00	-316.1	-212.5	-249.5
15.00	-313.0	-211.2	-242.1
18.00	-307.6	-208.1	-234.3
20.00	-303.1	-205.3	-228.9
25.00	-290.1	-197.0	-215.5
30.00	-276.1	-187.7	-202.5
35.00	-261.9	-178.2	-190.2
40.00	-248.1	-168.8	-178.6
45.00	-234.8	-159.8	-167.9
50.00	-222.3	-151.2	-158.0



ROSA UNIT #91D
BLANCO MV / BASIN MC / BASIN DK

Spud: 06/22/09

Completed: 10/27/09

Surface Location:

1055' FSL and 250' FEL
 SE/4 SE/4 Sec 35 (P), T32N, R05W
 Rio Arriba, NM

Bottom Hole Location:

1954' FSL and 637' FEL
 NE/4 SE/4 Sec 35 (I), T32N, R05W
 Rio Arriba, NM

Elevation: 6324' GR

API # 30-039-30763

Top	MD Depth	TVD Depth
Pictured Cliffs	3311'	3144'
Lewis	3648'	3479'
Cliffhouse Ss.	5525'	5256'
Menefee	5575'	5406'
Point Lookout	5777'	5608'
Mancos	6254'	6085'
Dakota	8060'	7891'

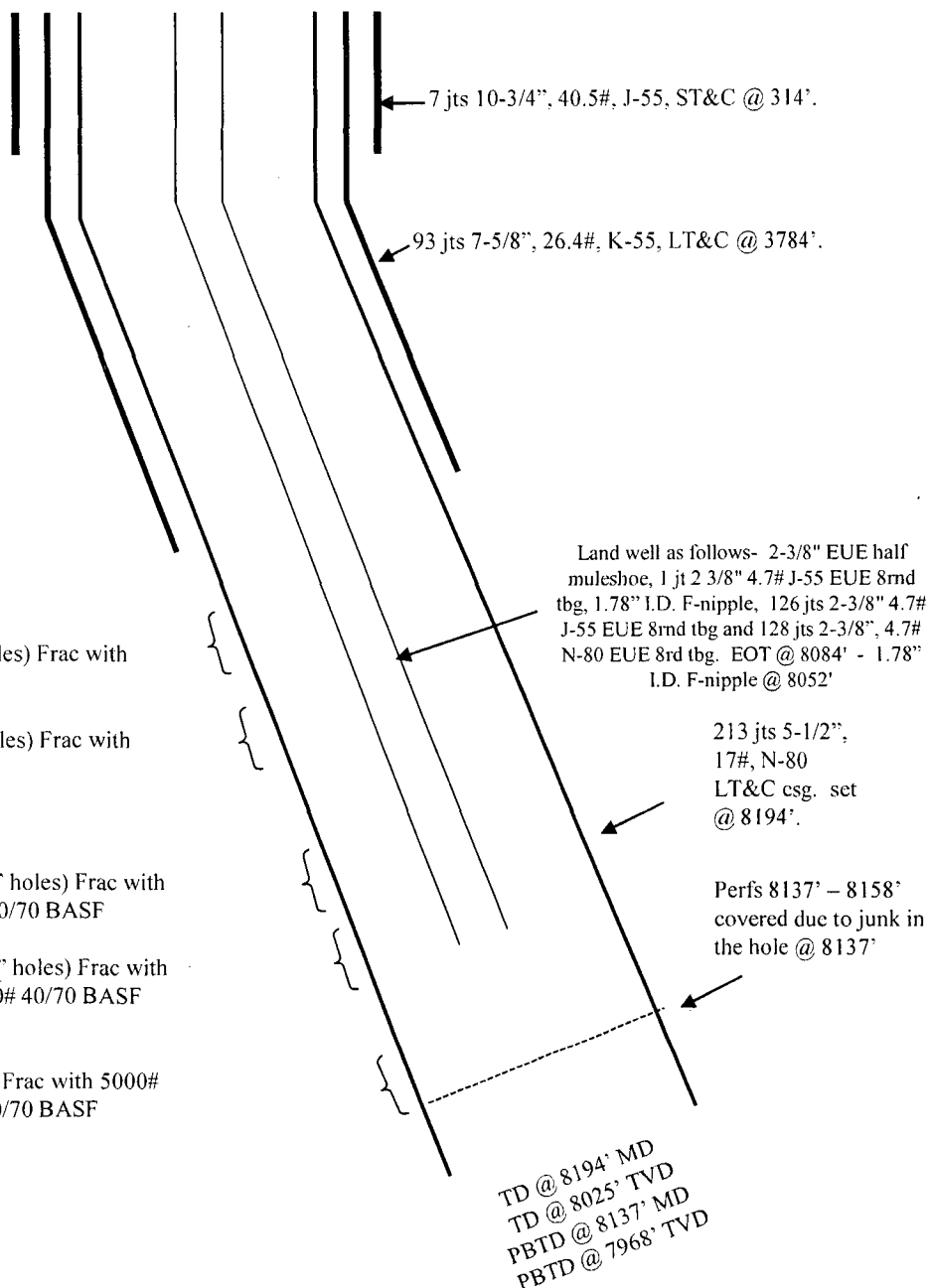
Upper MV: 5314'-5683' (55, 0.34" holes) Frac with
 78,900# 20/40 mesh BASF

Lower MV: 5777'-6050' (71, 0.34" holes) Frac with
 81,500# 20/40 mesh BASF

Upper Mancos: 6976'-7213' (81, 0.34" holes) Frac with
 5300# 100 mesh followed w/92,499# 40/70 BASF

Lower Mancos: 7279'-7447' (78, 0.34" holes) Frac with
 5000# 100 mesh followed with 120,200# 40/70 BASF

Dakota: 8062'-8158' (63, 0.34" holes) Frac with 5000#
 100 mesh BASF followed w/83,400# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	645 sxs	1602 cu.ft.	Surface
6-3/4"	5-1/2", 17#	380 sxs	531 cu.ft.	3200' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		OGRID Number 120782
		Reason for Filing Code/ Effective Date NW
API Number 30-039-30763	Pool Name BASIN DAKOTA NSL-6110	Pool Code 71599
Property Code 17033	Property Name ROSA UNIT	Well Number 91D

II. Surface Location

UL or lot no. P	Section 35	Township 32N	Range 6W	Lot.Idn	Feet from the 1055	North/South Line SOUTH	Feet from the 250	East/West line EAST	County Rio Arriba

Bottom Hole Location

UL or lot no. I	Section 35	Township 32N	Range 6W	Lot Idn	Feet from the 1954	North/South line SOUTH	Feet from the 637	East/West line EAST	County Rio Arriba
Lse Code	Producing Method Code	Gas Connection Date	C-129 Permit Number	C-129 Effective Date	C-129 Expiration Date				

III. Oil and Gas Transporters

Transporter OGRID	Transporter Name and Address	O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
	RGUD OCT 30 '09	

Well shut in, waiting on NSL approval

OIL CONSV. DIV.
DIST. 3

IV. Well Completion Data NOTE: Commingled with Mesaverde and Mancos

Spud Date 6-22-09	Ready Date 10-27-09	TD 8194' MD	PBTD 8164' MD	Perforations 8062' - 8158'	DHC, MC AZT-3247
Hole Size 14-3/4"	Casing & Tubing Size 10-3/4", 40.5#, J J-55	Depth Set 314'	Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3784'	645 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8194'	380 sx - 3200' (CBL)		
	2.375", 4.7#, J-55 & N-80	7424'	NONE		

VI. Well Test Data

Date New Oil	Gas Delivery Date	Test Date 10-25-09	Test Length 2 hrs	Tbg. Pressure 0	Csg. Pressure 300 lb
Choke Size 1/2"	Oil	Water	Gas 451 mcf/d		Test Method Choke

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>		11/9/09 OIL CONSERVATION DIVISION Approved by: <i>Charles P. 11-13-09</i>
Printed name: Larry Higgins		Title: SUPERVISOR DISTRICT # 3
Title: Drilg COM		Approval Date: NOV 13 2009
E-mail Address: larry.higgins@williams.com		
Date: 10-30-09	Phone: 505-634-4208	<i>Bem appvel</i>

60

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

5 LEASE DESIGNATION AND LEASE NO
NMSF-078772

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME
Rosa Unit

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #91D

9 API WELL NO
30-039-30763

10 FIELD AND POOL, OR WILDCAT
Basin Dakota

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 35, T32N, R6W

12 COUNTY OR
Rio Arriba

13 STATE
New Mexico

19 ELEVATION CASINGHEAD

25 WAS DIRECTIONAL SURVEY MADE
YES

27 WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a TYPE OF WELL ☒ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1055' FSL & 250' FEL, sec 35, T32N, R6W
At top production interval reported below: 1954' FSL & 637' FEL, sec 35, T32N, R6W
At total depth Same

14 PERMIT NO
DATE ISSUED
18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6324' GR

15 DATE
SPUDDED
6-22-09

16 DATE T.D.
REACHED
7-3-09

17 DATE COMPLETED (READY TO PRODUCE)
10-27-09

20 TOTAL DEPTH, MD & TVD
8194' MD / 8025' TVD

21 PLUG BACK T.D., MD & TVD
8164' MD

22 IF MULTICOMP.
HOW MANY
3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 8062'-8158' MD

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40 5#	314'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3784'	9-7/8"	645 SX - SURFACE	
5-1/2", N-80	17 0#	8194'	6-3/4"	380 SX - 3200' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8", 4.7#, J-55 & N-80 EUE 8rd	7424'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 63, 0 34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)
8062'-8158'
AMOUNT AND KIND OF MATERIAL USED
Fraced with 5000# 100 mesh BASF followed with 83,400# 40/70 mesh BASF

33 PRODUCTION Commingled with Mesaverde and Mancos per AZT-3247

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on NSL approval	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-25-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	300 lb				451 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY Buddy Banks

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

DATE

10-30-09

ACCEPTED FOR RECORD

NOV 04 2009

FARMINGTON FIELD OFFICE
BY *JL Solvers*

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents the cor, cor'd intervals, and all full stems, 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	TOP	
					NAME	MEASURED DEPTH
					PICTURED CLIFFS	3311'
					LEWIS	3648'
					CLIFFHOUSE	5525'
					MENEFEE	5575'
					POINT LOOKOUT	5777'
					MANCOS	6254'
					DAKOTA	8060'
						3144'
						3479'
						5356'
						5406'
						5608'
						6085'
						7891'

February 24, 2011

The ROSA Unit #138D DAKOTA Formation Well (non-commercial) is located 2280 feet from the North Line and 820 feet from the East Line, Section 17 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on May 30, 2009 and completed in the Dakota formation on August 11, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8255' to 8339'. This well has a 2.375" tubing string. This well was shut in with a SICP of 625 psig. On August 11, 2009 the well was tested and after flowing for 2 hours through a 24/64" choke on the 2.375" tubing, the well gauged 900 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #138D | 1PDP | DAKOTA | JAL9BIUHK3 | 62263904
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 08/2009	SJ_OP_POST
GAS 70 X M/D 6 MOS B/1.5 35	SJ_OP_POST
" 50 X M/D 3 IMO B/2.5 65	SJ_OP_POST
" 30 X M/D 5 EXP B/1.5 15	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 389.31608 476.03105 M\$G 05/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #138D
 Field: BASIN
 Cnty: RIO ARRIEA St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 13:50:23
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA				
	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.		Init.Deff	Init. Rate	Final Rate
400 START	08/2009											
401 GAS	70.00	X	M/D	6.00	MOS	B/1.5	35.00	11.218	1/2010	35.0000	2129.	1659.
402 "	50.00	X	M/D	3.00	IMO	B/2.5	65.00	14.463	4/2010	65.0000	1521.	857.
403 "	30.00	X	M/D	5.00	EXP	B/1.5	15.00	77.446	8/2019	15.0000	913.	390.
404 "	X	X	M/D	30.00	YRS	EXP	5.00	135.863	7/2039	5.0000	390.	140.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010			
512 "	5.75	X	\$/M	TO	LIFE	PC	0.00	7/2039		5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC	0.00	7/2039		0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	7/2039		0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00	7/2039		700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	7/2039		1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	7/2039		0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00	7/2039		0.865	0.865	

OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	7/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	7/2039			
905 S /89	1.00	X	FRAC	TO	LIFE	MUL 89.00	7/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	7/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	7/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	7/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	7/2039			
914 GAS	01/2009	0	0	0	0	188.93 2113.02 1919.75 #	4.222 10/2009			
915 "	X	1537.83	1655.01	1722.28	1424.15	1231.51 982.38 #	12.775 4/2010			
916 "	X	937.86	531.93	598.92	955.15	822.99 935.27 808.99 #	18.366 11/2010			

INVESTMENTS	Tangible	Intang	Units	Invest.	Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	389.32	476.03	MSG	05/2009	AD	ESC INV	865.347	5/2009	0	865.3	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.00				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #138D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 13:50:23
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		7.415		0.000		6.414		0.00	2.712	1.0	0.000	17.391	17.391
12-2010	0.000		11.772		0.000		10.183		0.00	3.788	1.0	0.000	38.568	38.568
12-2011	0.000		9.109		0.000		7.879		0.00	4.783	1.0	0.000	37.689	37.689
12-2012	0.000		8.022		0.000		6.939		0.00	4.783	1.0	0.000	33.192	33.192
12-2013	0.000		7.211		0.000		6.237		0.00	4.783	1.0	0.000	29.836	29.836
12-2014	0.000		6.578		0.000		5.690		0.00	4.783	1.0	0.000	27.217	27.217
12-2015	0.000		6.068		0.000		5.249		0.00	4.783	1.0	0.000	25.108	25.108
12-2016	0.000		5.647		0.000		4.884		0.00	4.783	1.0	0.000	23.364	23.364
12-2017	0.000		5.292		0.000		4.577		0.00	4.783	1.0	0.000	21.896	21.896
12-2018	0.000		4.988		0.000		4.314		0.00	4.783	1.0	0.000	20.638	20.638
12-2019	0.000		4.724		0.000		4.086		0.00	4.783	1.0	0.000	19.546	19.546
12-2020	0.000		4.487		0.000		3.881		0.00	4.783	1.0	0.000	18.564	18.564
12-2021	0.000		4.262		0.000		3.687		0.00	4.783	1.0	0.000	17.636	17.636
12-2022	0.000		4.049		0.000		3.503		0.00	4.783	1.0	0.000	16.754	16.754
12-2023	0.000		3.847		0.000		3.327		0.00	4.783	1.0	0.000	15.917	15.917
S TOT	0.000		93.469		0.000		80.850		0.00	4.494	1.0	0.000	363.317	363.317
AFTER	0.000		29.885		0.000		25.851		0.00	4.783	1.0	0.000	123.656	123.656
TOTAL	0.000		123.353		0.000		106.701		0.00	4.564	1.0	0.000	486.972	486.972

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.438	3.500	0.000	12.453	389.316	476.031	0.000	865.347	-852.894	-750.360
12-2010	3.189	8.400	0.000	26.980	0.000	0.000	0.000	0.000	26.980	-728.666
12-2011	3.116	8.400	0.000	26.173	0.000	0.000	0.000	0.000	26.173	-709.179
12-2012	2.744	8.400	0.000	22.048	0.000	0.000	0.000	0.000	22.048	-693.980
12-2013	2.467	8.400	0.000	18.969	0.000	0.000	0.000	0.000	18.969	-681.872
12-2014	2.250	8.400	0.000	16.567	0.000	0.000	0.000	0.000	16.567	-672.080
12-2015	2.076	8.400	0.000	14.632	0.000	0.000	0.000	0.000	14.632	-664.073
12-2016	1.932	8.400	0.000	13.033	0.000	0.000	0.000	0.000	13.033	-657.469
12-2017	1.810	8.400	0.000	11.685	0.000	0.000	0.000	0.000	11.685	-651.987
12-2018	1.706	8.400	0.000	10.532	0.000	0.000	0.000	0.000	10.532	-647.412
12-2019	1.616	8.400	0.000	9.530	0.000	0.000	0.000	0.000	9.530	-643.578
12-2020	1.535	8.400	0.000	8.630	0.000	0.000	0.000	0.000	8.630	-640.364
12-2021	1.458	8.400	0.000	7.778	0.000	0.000	0.000	0.000	7.778	-637.682
12-2022	1.385	8.400	0.000	6.969	0.000	0.000	0.000	0.000	6.969	-635.457
12-2023	1.316	8.400	0.000	6.201	0.000	0.000	0.000	0.000	6.201	-633.623
S TOT	30.036	121.100	0.000	212.180	389.316	476.031	0.000	865.347	-653.167	-633.623
AFTER	10.223	86.100	0.000	27.333	0.000	0.000	0.000	0.000	27.333	-627.489
TOTAL	40.259	207.200	0.000	239.513	389.316	476.031	0.000	865.347	-625.834	-627.489

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #138D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 13:50:23
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATA	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	12.453	87.414	0.000	476.031	0.000	-550.992	0.000	-192.847	-660.047	-582.890
12-2010	26.980	86.259	0.000	0.000	0.000	-59.280	0.000	-20.748	47.728	-544.513
12-2011	26.173	61.603	0.000	0.000	0.000	-35.429	0.000	-12.400	38.574	-515.794
12-2012	22.048	44.006	0.000	0.000	0.000	-21.958	0.000	-7.685	29.733	-495.297
12-2013	18.969	34.753	0.000	0.000	0.000	-15.784	0.000	-5.524	24.493	-479.663
12-2014	16.567	34.740	0.000	0.000	0.000	-18.173	0.000	-6.360	22.928	-466.112
12-2015	14.632	34.753	0.000	0.000	0.000	-20.121	0.000	-7.042	21.674	-454.251
12-2016	13.033	5.788	0.000	0.000	0.000	7.245	0.000	2.536	10.497	-448.932
12-2017	11.685	0.000	0.000	0.000	0.000	11.685	0.000	4.090	7.595	-445.368
12-2018	10.532	0.000	0.000	0.000	0.000	10.532	0.000	3.686	6.846	-442.395
12-2019	9.530	0.000	0.000	0.000	0.000	9.530	0.000	3.336	6.195	-439.903
12-2020	8.630	0.000	0.000	0.000	0.000	8.630	0.000	3.020	5.609	-437.814
12-2021	7.778	0.000	0.000	0.000	0.000	7.778	0.000	2.722	5.056	-436.070
12-2022	6.969	0.000	0.000	0.000	0.000	6.969	0.000	2.439	4.530	-434.624
12-2023	6.201	0.000	0.000	0.000	0.000	6.201	0.000	2.170	4.031	-433.432
S TOT	212.180	389.316	0.000	476.031	0.000	-653.167	0.000	-228.608	-424.559	-433.432
AFTER	27.333	0.000	0.000	0.000	0.000	27.333	0.000	9.566	17.766	-429.444
TOTAL	239.513	389.316	0.000	476.031	0.000	-625.834	0.000	-219.042	-406.792	-429.444

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	26.58	ATAX PAY OUT YEARS	26.58
BTAX PAYOUT YEARS (DISC)	26.58	ATAX PAY OUT YEARS (DISC)	26.58
BTAX NET INCOME/INVEST	0.28	ATAX NET INCOME/INVEST	0.53
BTAX NET INCOME/INVEST(DISC)	0.18	ATAX NET INCOME/INVEST(DISC)	0.44

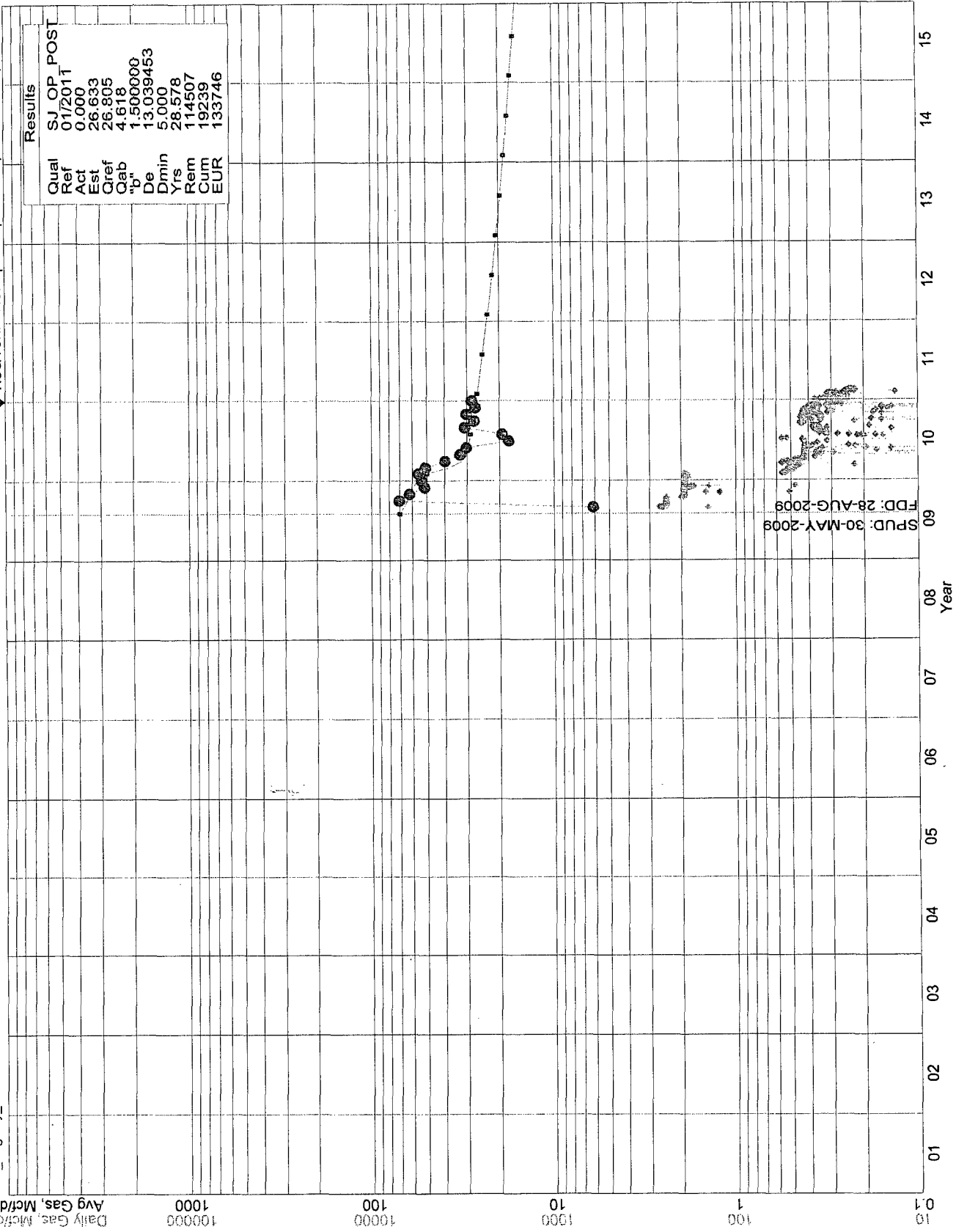
PRESENT WORTH PROFILE AND

--- RATE-OF-RETURN VS. BONUS TABLE ---

P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-625.8	-406.8	-625.8
2.00	-634.1	-418.9	-586.0
5.00	-635.0	-427.8	-547.2
8.00	-627.5	-429.4	-519.5
10.00	-619.6	-427.9	-504.2
12.00	-610.3	-424.9	-490.4
15.00	-594.7	-418.3	-471.6
18.00	-577.9	-410.3	-454.5
20.00	-566.4	-404.4	-443.7
25.00	-537.6	-388.5	-418.7
30.00	-509.7	-372.0	-395.8
35.00	-483.0	-355.6	-374.8
40.00	-458.0	-339.6	-355.4
45.00	-434.6	-324.4	-337.5
50.00	-412.8	-309.9	-320.9

PRODUCTION START DATE	08/2009	PROJECT LIFE (YEARS)	26.58
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.407
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.783
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	123.353
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	123.353
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

SUB_AvgDay_Gas



Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	26.633
Qref	26.805
Qlab	4.618
b*	1.500000
De	13.039453
Dmin	5.000
Yrs	28.578
Rem	114507
Cum	19239
EUR	133746

ROSA UNIT #138D
BLANCO MV / BASIN MC / BASIN DK

Spud: 05/30/09
 Completed: 08/11/09
 1st Delivery: 8/28/09

Surface Location:
 2280' FNL and 820' FEL
 SE/4 NE/4 Sec 17 (H), T31N, R06W
 San Juan, NM

Bottom Hole Location:
 913' FNL and 228' FEL
 NE/4 NE/4 Sec 17 (A), T31N, R06W
 San Juan, NM

Elevation: 6333' GR
 API # 30-045-34959

Top	MD Depth	TVD Depth
Pictured Cliffs	3592'	3194'
Lewis	3900'	3499'
Cliffhouse Ss.	5732'	5331'
Menefee	5776'	5375'
Point Lookout	6017'	5616'
Mancos	6527'	6125'
Dakota	8255'	7853'

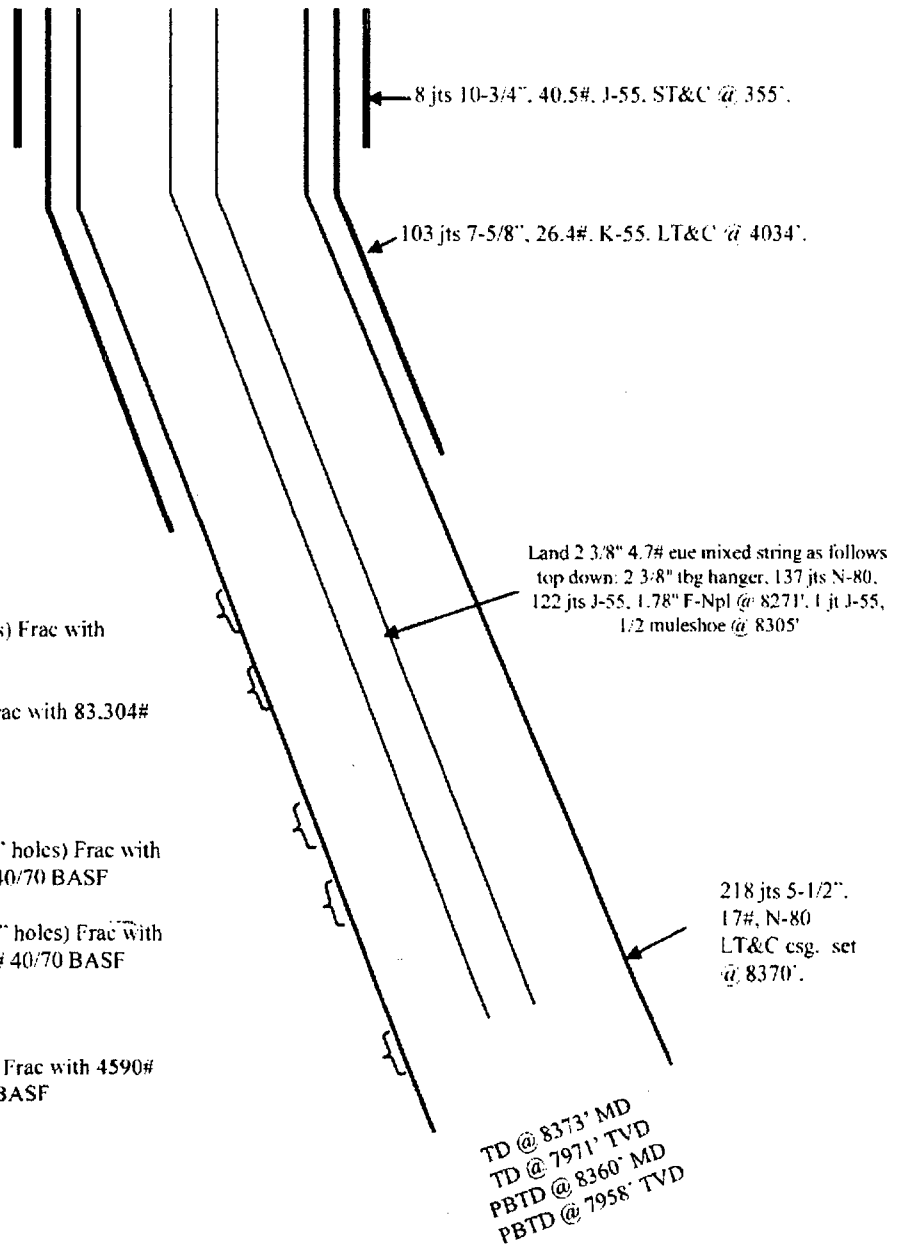
CH/Men: 5509'-5932' (57. 0.34" holes) Frac with
 73,307# 20/40 mesh BASF

PLO: 6010'-6314' (54. 0.34" holes) Frac with 83,304#
 20/40 mesh BASF

Upper Mancos: 7210'-7400' (60. 0.34" holes) Frac with
 9,498# 100 mesh followed w/94,691# 40/70 BASF

Lower Mancos: 7493'-7599' (48. 0.34" holes) Frac with
 4718# 100 mesh followed with 84,215# 40/70 BASF

Dakota: 8255'-8339' (75. 0.34" holes) Frac with 4590#
 100 mesh followed w/119,910# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	680 sxs	1697 cu.ft.	Surface
6-3/4"	5-1/2", 17#	390 sxs	545 cu.ft.	3332' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34959	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 138D

II. ¹⁰ Surface Location

Ul or lot no. H	Section 17	Township 31N	Range 6W	Lot.Idn	Feet from the 2280	North/South Line NORTH	Feet from the 820	East/West line EAST	County SAN JUAN

¹¹ Bottom Hole Location

UL or lot no. A	Section 17	Township 31N	Range 6W	Lot Idn	Feet from the 913	North/South line NORTH	Feet from the 228	East/West line EAST	County SAN JUAN
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

IV. Well Completion Data NOTE: To be commingled with Mesa Verde and Mancos

²¹ Spud Date 5-30-09	²² Ready Date 8-11-09	²³ TD 8373' MD	²⁴ PBDT 8360' MD	²⁵ Perforations 8255' - 8339'	²⁶ DHC, MC AZT-3206
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 355'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4034'	680 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8370'	390 sx - 3332' (CBL)		
	2.375", 4.7#, J-55	8305'	NONE		

VI. Well Test Data Note: Flow test for Mesaverde, Mancos & Dakota

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 8-11-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 625 psi
³⁷ Choke Size 26/64"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 216 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Charles R. ...</i> 8-27-09		
Title: Drig COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: AUG 27 2009		
Date: 8-26-09	Phone: 505-634-4208				

PCVD AUG 26 '09
OIL CONS. DIV.
DIST. 3

AUG 13 2009

In Lieu of
Form 3160-4
(July 1992)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTBureau of Land Management
Farmington Field Office(See other instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER				7 UNIT AGREEMENT NAME Rosa Unit	
b TYPE OF COMPLETION ☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER				Report to lease	
2 NAME OF OPERATOR WILLIAMS PRODUCTION COMPANY				8 FARM OR LEASE NAME, WELL NO Rosa Unit #138D	
3 ADDRESS AND TELEPHONE NO P.O. Box 640, Aztec, NM 87410 (505) 634-4208				9 API WELL NO 30-045-34959-0061	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At Surface 2280' FNL & 820' FEL, sec 17, T31N, R6W At top production interval reported below 913' FNL & 228' FEL, sec 17, T31N, R6W At total depth Same				10. FIELD AND POOL, OR WILDCAT Basin Dakota	
				11. SEC. T.R.M. OR BLOCK AND SURVEY OR AREA Sec 17, T31N, R6W	
15 DATE SPUDDED 5-30-09		16 DATE T.D. REACHED 6-15-09		12. COUNTY OR San Juan	13 STATE New Mexico
17 DATE COMPLETED (READY TO PRODUCE) 8-11-09		18 ELEVATIONS (DK. RKR. RT. GR. ETC.)* 6333' GR		19 ELEVATION CASINGHEAD	
20 TOTAL DEPTH, MD & TVD 8373' MD / 7971' TVD		21. PLUG BACK T.D. MD & TVD 8360' MD		22 IF MULTICOMP. HOW MANY 3*	23 INTERVALS DRILLED BY
24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA 8255' - 8339' MD				25 WAS DIRECTIONAL SURVEY MADE YES	
26 TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL				27 WAS WELL CORED No	

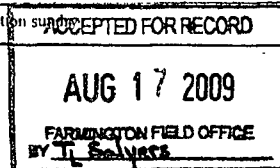
28 CASING REPORT (Report all strings set in well)					
CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", J-55	40.5#	355'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26 4#	4034'	9-7/8"	680 SX - SURFACE	
5-1/2", N-80	17 0#	8370'	6-3/4"	390 SX - 3332' (CBL)	
29 LINER RECORD					
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	PACKER SET (MD)
				2 375", 4 7#, J-55 EUE 8rd	8305' none
31 PERFORATION RECORD (Interval, size, and number) Dakota 8255' - 8339' Total of 75, 0 34" holes			32 ACID, SHOT FRACTURE CEMENT SQUEEZE ETC		
			DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	
			8255'-8339'	Fraced with 4,590# 100 mesh BASF followed with 119,910# 40/70 mesh BASF	
				DIST. 3	

33 PRODUCTION To be commingled with MV & MC per AZT-3206							
DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Flowing				WELL STATUS (PRODUCING OR SI) SI - waiting on tie-in	
DATE OF TEST 8-11-09	TESTED 2 hr	CHOKE SIZE 26/64"	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
FLOW TBG PRESS 0	CASING PRESSURE 625 psi	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF 900 mcf/d	WATER - BBL	OIL GRAVITY-API (CORR.)

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) TO BE SOLD Note Flow rest for all 3 zones						TEST WITNESSED BY Craig Ward	
35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES - NOTE WELLBORE DIAGRAM, Directional EOW report attached to completion summary							
36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							

SIGNED Larry Higgins TITLE Drig COM DATE 8-13-09

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 MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
				PICTURED CLIFFS		3592'	3194'
				LEWIS		3900'	3499'
				CLIFFHOUSE		5732'	5331'
				MENEFEE		5776'	5375'
				POINT LOOKOUT		6017'	5616'
				MANCOS		6527'	6125'
				DAKOTA		8255'	7853'

February 24, 2011

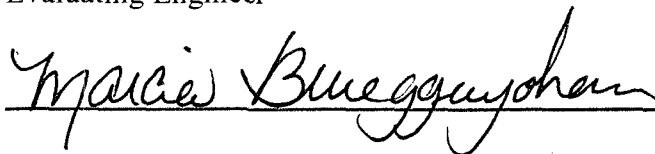
The ROSA Unit #149C DAKOTA Formation Well (non-commercial) is located 1910 feet from the North Line and 2225 feet from the West Line, Section 12 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 25, 2009 and completed in the Dakota formation on September 19, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8052' to 8158'. This well has a 2.375" tubing string. This well was shut in with a SICP of 300 psig. On September 17, 2009 the well was tested and after flowing for 2 hours through a 2" choke on the 2.375" tubing, the well gauged 431 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggemann", is written over a horizontal line.

Marcia Brueggemann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #149C | 1PDP | DAKOTA | J7PKM9LRTJ | 62246175
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 10/2009	SJ_OP_POST
GAS 60 65 M/D 6 MOS EXP X	SJ_OP_POST
" X X M/D 4 IMO B/1.8 55	SJ_OP_POST
" X X M/D 6 EXP B/1.8 45	SJ_OP_POST
" X X M/D 30 YRS EXP 6	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 294.56126 424.18221 M\$G 06/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22456 RSV CAT: 1PDP
 Well Name: ROSA UNIT #149C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 13:46:25
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA					INITIAL CALCULATED DATA				
	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	10/2009									
401 GAS	60.00	65.00	M/D	6.00	MOS	EXP X	11.400 3/2010	-17.3611	1825.	1977.
402 "	X	X	M/D	4.00	IMO	B/1.8 55.00	17.749 7/2010	55.0000	1977.	1320.
403 "	X	X	M/D	6.00	EXP	B/1.8 45.00	64.977 1/2019	45.0000	1320.	270.
404 "	X	X	M/D	30.00	YRS	EXP 6.00	102.720 9/2039	6.0000	270.	75.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M	4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M	8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M	12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M	4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M	8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M	12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M	4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M	8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M	12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M	4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M	8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M	12/2010			
512 "	5.75	X	\$/M	TO	LIFE	PC 0.00	9/2039		5.750	5.750
600 ATX	4.69	X	%	TO	LIFE	PC 0.00	9/2039		0.047	0.047
601 STX/GAS	3.75	X	%	TO	LIFE	PC 0.00	9/2039		0.037	0.037
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC 0.00	9/2039		700.000	700.000
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT 0.00	9/2039		1.000	1.000
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	9/2039		0.865	0.865
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT 0.00	9/2039		0.865	0.865
OVERLAYS	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV 146.00	9/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL 92.00	9/2039			
905 S /89	1.00	X	FRAC	TO	LIFE	MUL 89.00	9/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS 89.00	9/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL 92.00	9/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS 88.00	9/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL 88.00	9/2039			
914 GAS	01/2009	0 0 0 0 0 0 0 0	121.88	1876.49	1660.23	#	3.659 11/2009			
915 "	X	1997.6	2042.81	1844.26	2025.32	1607.1 1400.96	#	14.577 5/2010		
916 "	X	1218.03	1098.12	1306.32	1334.76	1281.96 1090.68	#	21.907 11/2010		

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	294.56	424.18	M\$G	06/2009 AD	ESC INV	718.743	6/2009	0	718.7	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 22456 RSV CAT: 1PDP
 Well Name: ROSA UNIT #149C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 13:46:25
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		5.656		0.000		4.787		0.00	3.153	1.0	0.000	15.095	15.095
12-2010	0.000		17.226		0.000		14.900		0.00	3.699	1.0	0.000	55.121	55.121
12-2011	0.000		9.155		0.000		7.919		0.00	4.791	1.0	0.000	37.939	37.939
12-2012	0.000		6.741		0.000		5.831		0.00	4.791	1.0	0.000	27.934	27.934
12-2013	0.000		5.550		0.000		4.801		0.00	4.791	1.0	0.000	23.000	23.000
12-2014	0.000		4.810		0.000		4.160		0.00	4.791	1.0	0.000	19.931	19.931
12-2015	0.000		4.293		0.000		3.714		0.00	4.791	1.0	0.000	17.791	17.791
12-2016	0.000		3.907		0.000		3.380		0.00	4.791	1.0	0.000	16.191	16.191
12-2017	0.000		3.605		0.000		3.118		0.00	4.791	1.0	0.000	14.939	14.939
12-2018	0.000		3.360		0.000		2.907		0.00	4.791	1.0	0.000	13.926	13.926
12-2019	0.000		3.154		0.000		2.729		0.00	4.791	1.0	0.000	13.072	13.072
12-2020	0.000		2.965		0.000		2.565		0.00	4.791	1.0	0.000	12.287	12.287
12-2021	0.000		2.787		0.000		2.411		0.00	4.791	1.0	0.000	11.550	11.550
12-2022	0.000		2.620		0.000		2.266		0.00	4.791	1.0	0.000	10.857	10.857
12-2023	0.000		2.463		0.000		2.130		0.00	4.791	1.0	0.000	10.206	10.206
S TOT	0.000		78.293		0.000		67.618		0.00	4.434	1.0	0.000	299.838	299.838
AFTER	0.000		2.872		0.000		2.484		0.00	4.791	1.0	0.000	11.900	11.900
TOTAL	0.000		81.165		0.000		70.102		0.00	4.447	1.0	0.000	311.739	311.739

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.248	2.100	0.000	11.747	294.561	424.182	0.000	718.744	-706.997		-617.976
12-2010	4.557	8.400	0.000	42.164	0.000	0.000	0.000	0.000	42.164		-584.073
12-2011	3.137	8.400	0.000	26.402	0.000	0.000	0.000	0.000	26.402		-564.417
12-2012	2.309	8.400	0.000	17.224	0.000	0.000	0.000	0.000	17.224		-552.543
12-2013	1.902	8.400	0.000	12.699	0.000	0.000	0.000	0.000	12.699		-544.437
12-2014	1.648	8.400	0.000	9.883	0.000	0.000	0.000	0.000	9.883		-538.596
12-2015	1.471	8.400	0.000	7.920	0.000	0.000	0.000	0.000	7.920		-534.262
12-2016	1.339	8.400	0.000	6.453	0.000	0.000	0.000	0.000	6.453		-530.992
12-2017	1.235	8.400	0.000	5.304	0.000	0.000	0.000	0.000	5.304		-528.503
12-2018	1.151	8.400	0.000	4.374	0.000	0.000	0.000	0.000	4.374		-526.603
12-2019	1.081	8.400	0.000	3.591	0.000	0.000	0.000	0.000	3.591		-525.159
12-2020	1.016	8.400	0.000	2.872	0.000	0.000	0.000	0.000	2.872		-524.089
12-2021	0.955	8.400	0.000	2.195	0.000	0.000	0.000	0.000	2.195		-523.332
12-2022	0.898	8.400	0.000	1.560	0.000	0.000	0.000	0.000	1.560		-522.834
12-2023	0.844	8.400	0.000	0.962	0.000	0.000	0.000	0.000	0.962		-522.550
S TOT	24.789	119.700	0.000	155.350	294.561	424.182	0.000	718.744	-563.394		-522.550
AFTER	0.984	10.500	0.000	0.417	0.000	0.000	0.000	0.000	0.417		-522.436
TOTAL	25.772	130.200	0.000	155.766	294.561	424.182	0.000	718.744	-562.977		-522.436

PropID: 22456 RSV CAT: 1PDP
 Well Name: ROSA UNIT #149C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
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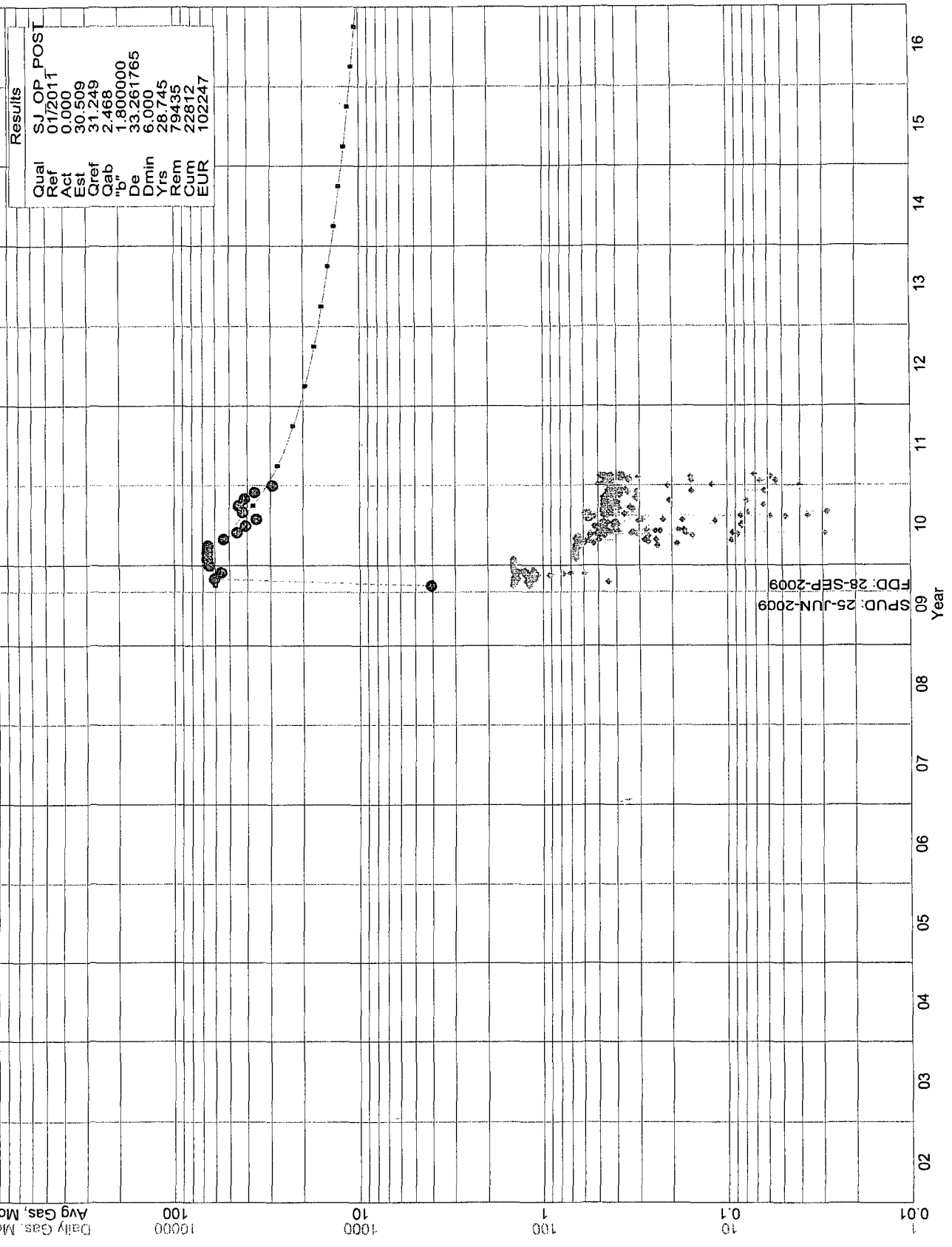
A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	11.747	11.480	0.000	424.182	0.000	-423.915	0.000	-148.370	-558.626	-489.131
12-2010	42.164	54.659	0.000	0.000	0.000	-12.495	0.000	-4.373	46.537	-451.711
12-2011	26.402	65.265	0.000	0.000	0.000	-38.863	0.000	-13.602	40.004	-421.927
12-2012	17.224	46.609	0.000	0.000	0.000	-29.385	0.000	-10.285	27.509	-402.963
12-2013	12.699	33.295	0.000	0.000	0.000	-20.596	0.000	-7.209	19.908	-390.256
12-2014	9.883	26.295	0.000	0.000	0.000	-16.411	0.000	-5.744	15.627	-381.020
12-2015	7.920	26.285	0.000	0.000	0.000	-18.365	0.000	-6.428	14.348	-373.169
12-2016	6.453	26.295	0.000	0.000	0.000	-19.842	0.000	-6.945	13.397	-366.380
12-2017	5.304	4.379	0.000	0.000	0.000	0.925	0.000	0.324	4.980	-364.044
12-2018	4.374	0.000	0.000	0.000	0.000	4.374	0.000	1.531	2.843	-362.808
12-2019	3.591	0.000	0.000	0.000	0.000	3.591	0.000	1.257	2.334	-361.869
12-2020	2.872	0.000	0.000	0.000	0.000	2.872	0.000	1.005	1.867	-361.174
12-2021	2.195	0.000	0.000	0.000	0.000	2.195	0.000	0.768	1.427	-360.682
12-2022	1.560	0.000	0.000	0.000	0.000	1.560	0.000	0.546	1.014	-360.358
12-2023	0.962	0.000	0.000	0.000	0.000	0.962	0.000	0.337	0.625	-360.174
S TOT	155.350	294.561	0.000	424.182	0.000	-563.394	0.000	-197.188	-366.206	-360.174
AFTER	0.417	0.000	0.000	0.000	0.000	0.417	0.000	0.146	0.271	-360.100
TOTAL	155.766	294.561	0.000	424.182	0.000	-562.977	0.000	-197.042	-365.935	-360.100

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	17.58	ATAX PAY OUT YEARS	17.58
BTAX PAYOUT YEARS (DISC)	17.58	ATAX PAY OUT YEARS (DISC)	17.58
BTAX NET INCOME/INVEST	0.22	ATAX NET INCOME/INVEST	0.49
BTAX NET INCOME/INVEST(DISC)	0.17	ATAX NET INCOME/INVEST(DISC)	0.43
PRODUCTION START DATE	10/2009	PROJECT LIFE (YEARS)	17.58
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.463
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.791
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	-0.122
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	81.165
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	81.043
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	1331.772	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-563.0	-365.9	-563.0
2.00	-554.0	-366.7	-527.9
5.00	-538.8	-364.7	-488.6
8.00	-522.4	-360.1	-458.4
10.00	-511.2	-356.0	-441.4
12.00	-499.9	-351.3	-426.2
15.00	-483.0	-343.6	-405.9
18.00	-466.4	-335.2	-387.8
20.00	-455.6	-329.3	-376.6
25.00	-429.6	-314.5	-351.5
30.00	-405.2	-299.8	-329.2
35.00	-382.6	-285.4	-309.3
40.00	-361.5	-271.7	-291.4
45.00	-342.0	-258.6	-275.0
50.00	-324.0	-246.3	-260.1



Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	30.509
Qref	31.249
Qab	2.468
"b"	1.800000
De	33.261765
Dmin	6.000
Yrs	28.745
Rem	79435
Cum	22812
EUR	102247

ROSA UNIT #149C
BLANCO MV / BASIN MC / BASIN DK

Spud: 06/25/09
 Completed: 09/19/09
 1st Delivery: 0/0/00

Surface Location:
 1910' FNL and 2225' FWL
 SE/4 NW/4 Sec 12 (F), T31N, R06W
 Rio Arriba, NM

Bottom Hole Location:
 1208' FNL and 1534' FEL
 NW/4 NE/4 Sec 12 (B), T31N, R06W
 Rio Arriba, NM

Elevation: 6286' GR
 API # 30-039-30723

Top	MD Depth	TVD Depth
Pictured Cliffs	3337'	3142'
Lewis	3640'	3442'
Cliffhouse Ss.	5541'	5343'
Menefee	5586'	5388'
Point Lookout	5821'	5623'
Mancos	6280'	6081'
Dakota	7920'	7722'

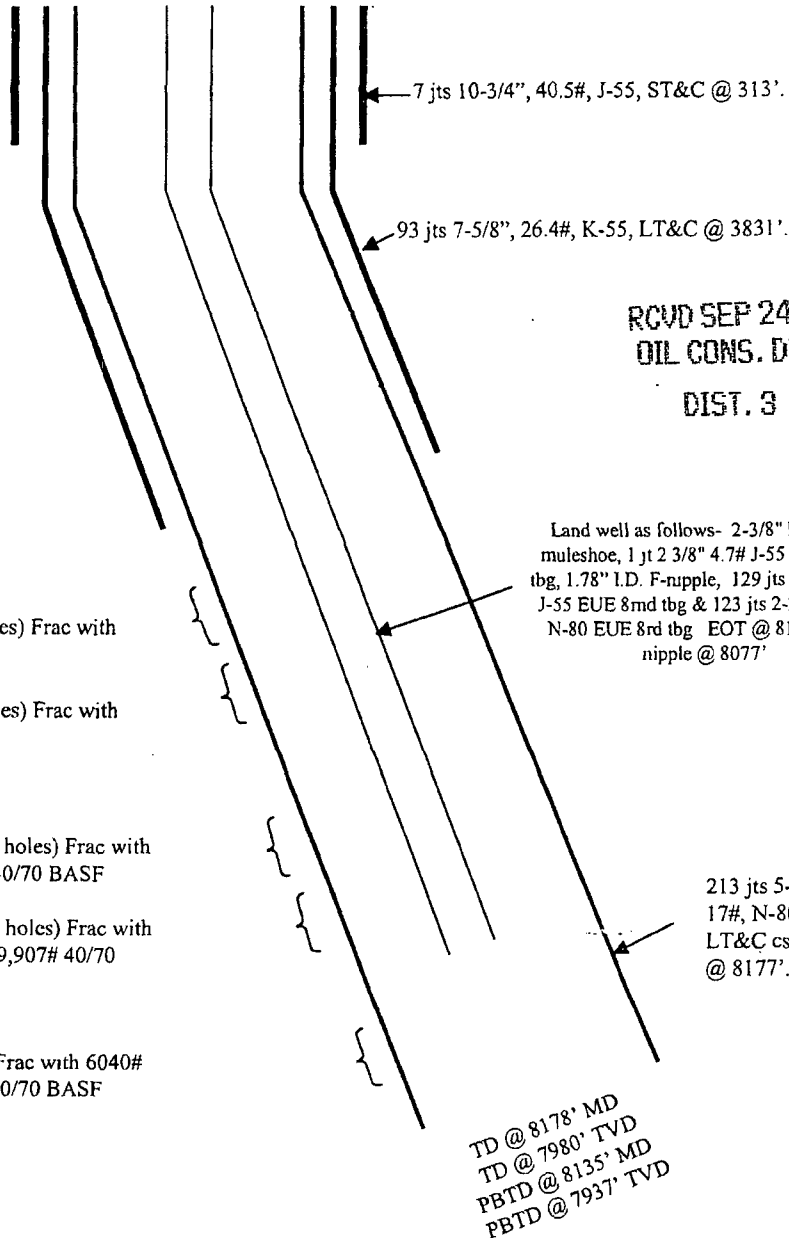
Upper MV: 5386'-5742' (57, 0.34" holes) Frac with
 81,463# 20/40 mesh BASF

Lower MV: 5798'-6145' (63, 0.34" holes) Frac with
 82,617# 20/40 mesh BASF

Upper Mancos: 6968'-7220' (90, 0.34" holes) Frac with
 4995# 100 mesh followed w/114,270# 40/70 BASF

Lower Mancos: 7253'-7420' (75, 0.34" holes) Frac with
 5005# 100 mesh BASF followed with 99,907# 40/70
 BASF

Dakota: 8052'-8158' (87, 0.34" holes) Frac with 6040#
 100 mesh BASF followed w/117,723# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	310 sxs	556 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	645 sxs	1605 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	504 cu.ft.	3068' CBL

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE

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

(See other instructions on
reverse side)

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078767

6. IF INDIAN ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.
Rosa Unit #149C

9. API WELL NO.
30-039-30723-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 12, T31N, R6W

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORED
No

15. DATE SPUDDED 6-25-09	16. DATE T.D. REACHED 7-5-09	17. DATE COMPLETED (READY TO PRODUCE) 9-19-09	18. ELEVATIONS (DK, RKB, RT, GR, ETC.)* 6286' GR
20. TOTAL DEPTH, MD & TVD 8178' MD / 7980' TVD		21. PLUG, BACK T.D., MD & TVD 8135' MD / 7937' TVD	22. IF MULTICOMP., HOW MANY 3*
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* BASIN DAKOTA: 8052'-8158' MD		23. INTERVALS DRILLED BY	
26. TYPE ELECTRIC AND OTHER LOGS RUN Array Induction, Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL		25. WAS DIRECTIONAL SURVEY MADE YES	

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
10-3/4", J-55	40.5#	313'	14-3/4"	310 SX - SURFACE	
7-5/8", K-55	26.4#	3831'	9-7/8"	645 SX - SURFACE	
5-1/2", N-80	17.0#	8177'	6-3/4"	360 SX - 3068' (CBL)	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 EUE 8rd	8111'	none

31. PERFORATION RECORD (Interval, size, and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8052'-8158'			Fraced with 6040# 100 mesh BASF followed with 117,723# 40/70 mesh BASF

33. PRODUCTION	
DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) Flowing ✓
WELL STATUS (PRODUCING OR SI) SI - waiting on tie-in ✓	
DATE OF TEST 9-17-09	TESTED 2 hr
CHOKE SIZE 2"	PROD'N FOR TEST PERIOD
OIL - BBL	GAS - MCF
WATER - BBL	GAS-OIL RATIO
FLOW TUB PRESS 0	CASING PRESSURE 300 lb
CALCULATED 24-HOUR RATE	
OIL - BBL	GAS - MCF 431 mcf/d ✓
WATER - BBL	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

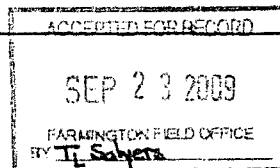
TEST WITNESSED BY: Weldon Higgins

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 Drip COM DATE 9-21-09

OPERATOR



38. GEOLOGIC MARKERS

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):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					PICTURED CLIFFS	3337'	3142'
					LEWIS	3640'	3442'
					CLIFFHOUSE	5541'	5343'
					MENEFEE	5586'	5388'
					POINT LOOKOUT	5821'	5623'
					MANCOS	6280'	6081'
					DAKOTA	7920'	7722'

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30723	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 149C

II. ¹⁰ Surface Location

Ul or lot no. F	Section 12	Township 31N	Range 6W	Lot Idn	Feet from the 1910	North/South Line NORTH	Feet from the 2225	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. B	Section 12	Township 31N	Range 6W	Lot Idn	Feet from the 1208	North/South line NORTH	Feet from the 1534	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	²⁰ O/G/W O
009018		
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD SEP 22 '09

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 6-25-09	²² Ready Date 9-19-09	²³ TD 8178' MD	²⁴ PBD 8135' MD	²⁵ Perforations 8052'-8158'	²⁶ DHC, MC AZT-3229
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 313'	³⁰ Sacks Cement 310 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3831'	645 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8177'	360 sx -3068' (CBL)		
	2.375", 4.7#, J-55	8111'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-17-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 300 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 431 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			9/25/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>[Signature]</i>		
Title: Dirg COM			Title: DEPUTY OIL & GAS INSPECTOR, DIST. 3		
E-mail Address: larry.higgins@williams.com			Approval Date: OCT 05 2009		
Date: 9-21-09		Phone: 505-634-4208			

February 24, 2011

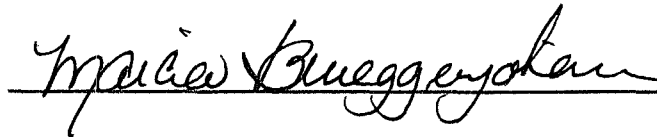
The ROSA Unit #152D DAKOTA Formation Well (non-commercial) is located 550 feet from the South Line and 450 feet from the West Line, Section 36 Township 32 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 6, 2009 and completed in the Dakota formation on September 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7912' to 8037'. This well has a 2.375" tubing string. This well was shut in with a SICP of 560 psig. On September 23, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 840 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #152D | 1PDP | DAKOTA | JAL9B6HPT1 | 62260950
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 10/2009	SJ_OP_POST
GAS 144 133 M/D 11 MOS EXP X	SJ_OP_POST
" 67 X M/D 7 EXP B/1.75 45	SJ_OP_POST
" X X M/D 30 YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 237.92230 320.94572 M\$G 07/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #152D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 15:29:34
 DBS: SUB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA INITIAL CALCULATED DATA

KEYWORD & Ref. Code	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate

400 START	10/2009						
401 GAS	144.00 133.00 M/D	11.00 MOS	EXP X	46.315 8/2010	8.3037	4380.	4045.
402 "	67.00 X M/D	7.00 EXP	B/1.75 45.00	112.738 12/2017	45.0000	2038.	441.
403 "	X M/D	30.00 YRS	EXP 7.00	170.665 9/2039	7.0000	441.	91.

500 PRI/GAS	01/2007 5.617 6.487 6.677 5.957 #/M			4/2007			
501 "	X 6.627 6.827 6.197 4.987 #/M			8/2007			
502 "	X 4.587 5.117 6.057 6.497 #/M			12/2007			
503 "	01/2008 6.377 7.277 8.087 8.277 #/M			4/2008			
504 "	X 9.427 9.846 11.356 7.637 #/M			8/2008			
505 "	X 6.427 4.267 2.837 4.627 #/M			12/2008			
506 "	01/2009 4.827 3.107 2.687 2.617 #/M			4/2009			
507 "	X 2.497 2.647 2.977 3.177 #/M			8/2009			
508 "	X 2.467 3.417 4.257 4.277 #/M			12/2009			
509 "	01/2010 5.72 5.31 4.66 3.77 #/M			4/2010			
510 "	X 3.87 3.69 4.28 4.08 #/M			8/2010			
511 "	X 3.47 4.126 5.75 5.75 #/M			12/2010			
512 "	5.75 X \$/M	TO LIFE	PC 0.00	9/2039		5.750	5.750

600 ATX	4.69 X %	TO LIFE	PC 0.00	9/2039		0.047	0.047
601 STX/GAS	3.75 X %	TO LIFE	PC 0.00	9/2039		0.037	0.037
602 OPC/T	700.00 X \$/M	TO LIFE	PC 0.00	9/2039		700.000	700.000
705 LSE/WI	1.0000 D FRAC	TO LIFE	FLAT 0.00	9/2039		1.000	1.000
720 NET/OIL	0.8650 D FRAC	TO LIFE	FLAT 0.00	9/2039		0.865	0.865
740 NET/GAS	0.8650 D FRAC	TO LIFE	FLAT 0.00	9/2039		0.865	0.865

OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
901 S 92	S/95 X FRAC	TO LIFE	DIV 146.00	9/2039			
903 S /89	0.49 X FRAC	TO LIFE	MUL 92.00	9/2039			
905 S /89	0.98 X FRAC	TO LIFE	MUL 89.00	9/2039			
907 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00	9/2039			
909 S /88	0.06 X FRAC	TO LIFE	MUL 92.00	9/2039			
911 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00	9/2039			
913 S /196	S/196 X FRAC	TO LIFE	MUL 88.00	9/2039			

914 GAS	01/2009 0 0 0 0 0 0 0 0 0 2737.44 4321.44 4463.76 #	11.523 12/2009
915 "	X 4348.08 4033.68 4395.12 4088.64 4453.2 3995.52 #	36.837 6/2010
916 "	X 3109.44 2092.3 1943.7 1828.2 1534.5 #	47.345 11/2010

INVESTMENTS	Tangible Intang Units	Invest. Point	Method & Value	Total T&I ___ Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	237.92 320.95 MSG	07/2009 AD	ESC INV	558.868 7/2009	0	558.8	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.98		
202 WELLS	0.00	1.00	
203 CUMO, MB	0.00	CUMG, MMF	0.00 CUML, MB
250 LOSS	NO		

PROJECT RUN SETTINGS

Base Date	: 09/2007	Time Frames	: 4*1.99*12,8
P.W. Date	: 09/2007	Primary PW%	: 8.0 Discount Freq. : MID
Report Date	: 09/2007		
Qualifiers	: Prod = SJ_OP_POST	Price = SJ_OP_POST	Cost = SJ_OP_POST Owner = BASE
	Title = BASE	Misc = BASE	Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #152D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:29:34
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----PRICES----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MMBL	GAS, MMCF	NET PRODUCTION-- OIL, MMBL	GAS, MMBL	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	11.523	0.000	9.967	0.00	3.162	1.0	0.000	31.512	31.512
12-2010	0.000	37.416	0.000	32.365	0.00	3.553	1.0	0.000	114.986	114.986
12-2011	0.000	14.662	0.000	12.683	0.00	4.686	1.0	0.000	59.427	59.427
12-2012	0.000	10.578	0.000	9.150	0.00	4.686	1.0	0.000	42.874	42.874
12-2013	0.000	8.624	0.000	7.460	0.00	4.686	1.0	0.000	34.954	34.954
12-2014	0.000	7.425	0.000	6.423	0.00	4.686	1.0	0.000	30.095	30.095
12-2015	0.000	6.597	0.000	5.706	0.00	4.686	1.0	0.000	26.738	26.738
12-2016	0.000	5.982	0.000	5.174	0.00	4.686	1.0	0.000	24.245	24.245
12-2017	0.000	5.503	0.000	4.760	0.00	4.686	1.0	0.000	22.302	22.302
12-2018	0.000	5.109	0.000	4.419	0.00	4.686	1.0	0.000	20.707	20.707
12-2019	0.000	4.751	0.000	4.110	0.00	4.686	1.0	0.000	19.257	19.257
12-2020	0.000	4.419	0.000	3.822	0.00	4.686	1.0	0.000	17.909	17.909
12-2021	0.000	4.109	0.000	3.555	0.00	4.686	1.0	0.000	16.656	16.656
12-2022	0.000	3.822	0.000	3.306	0.00	4.686	1.0	0.000	15.490	15.490
12-2023	0.000	3.554	0.000	3.074	0.00	4.686	1.0	0.000	14.405	14.405
S TOT	0.000	134.073	0.000	115.973	0.00	4.239	1.0	0.000	491.557	491.557
AFTER	0.000	16.110	0.000	13.935	0.00	4.686	1.0	0.000	65.294	65.294
TOTAL	0.000	150.183	0.000	129.908	0.00	4.287	1.0	0.000	556.851	556.851

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----			8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	2.605	2.100	0.000	26.807	237.922	320.946	0.000	558.868	-532.061	-462.045
12-2010	9.506	8.400	0.000	97.079	0.000	0.000	0.000	0.000	97.079	-383.986
12-2011	4.913	8.400	0.000	46.114	0.000	0.000	0.000	0.000	46.114	-349.653
12-2012	3.545	8.400	0.000	30.930	0.000	0.000	0.000	0.000	30.930	-328.330
12-2013	2.890	8.400	0.000	23.664	0.000	0.000	0.000	0.000	23.664	-313.226
12-2014	2.488	8.400	0.000	19.207	0.000	0.000	0.000	0.000	19.207	-301.874
12-2015	2.210	8.400	0.000	16.127	0.000	0.000	0.000	0.000	16.127	-293.048
12-2016	2.004	8.400	0.000	13.840	0.000	0.000	0.000	0.000	13.840	-286.035
12-2017	1.844	8.400	0.000	12.059	0.000	0.000	0.000	0.000	12.059	-280.378
12-2018	1.712	8.400	0.000	10.595	0.000	0.000	0.000	0.000	10.595	-275.775
12-2019	1.592	8.400	0.000	9.265	0.000	0.000	0.000	0.000	9.265	-272.048
12-2020	1.481	8.400	0.000	8.029	0.000	0.000	0.000	0.000	8.029	-269.058
12-2021	1.377	8.400	0.000	6.879	0.000	0.000	0.000	0.000	6.879	-266.686
12-2022	1.281	8.400	0.000	5.809	0.000	0.000	0.000	0.000	5.809	-264.831
12-2023	1.191	8.400	0.000	4.814	0.000	0.000	0.000	0.000	4.814	-263.408
S TOT	40.639	119.700	0.000	331.219	237.922	320.946	0.000	558.868	-227.649	-263.408
AFTER	5.398	48.300	0.000	11.596	0.000	0.000	0.000	0.000	11.596	-260.537
TOTAL	46.037	168.000	0.000	342.815	237.922	320.946	0.000	558.868	-216.053	-260.537

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #152D
 Field: BASIN
 Cnty: RIO ARRIIBA St: NM
 Reservoir: DAKOTA
 PGstAudit
 Operator: WPC

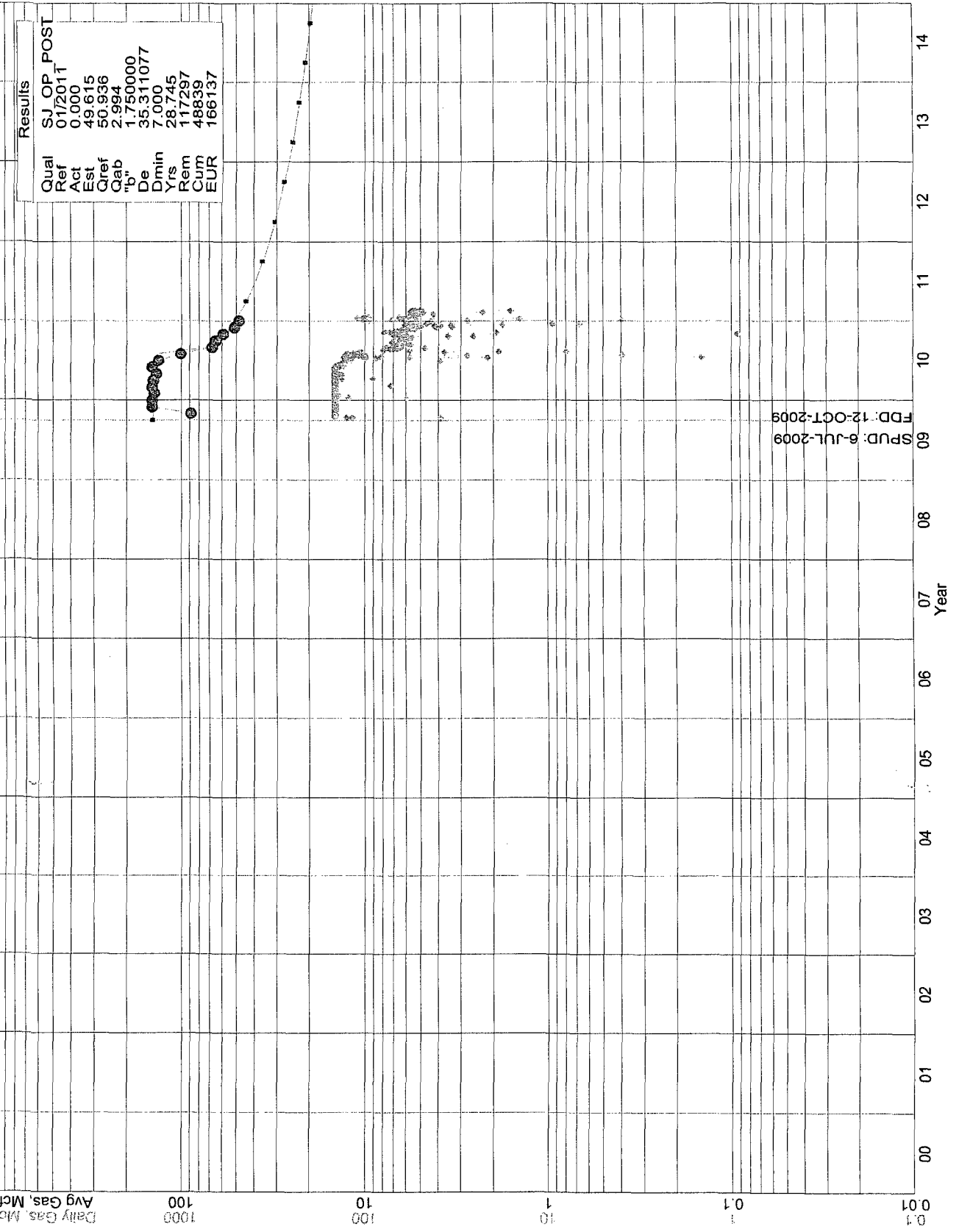
DATE : 02/23/2011
 TIME : 15:29:34
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	TAXABLE CASH FLOW M\$-----	DEPRECI- TION M\$-----	DEPLETION M\$-----	INTANG. EXPENSED M\$-----	INTEREST PAID & CAP M\$-----	TAXABLE INCOME M\$-----	TAX CREDIT M\$-----	TAXES PAYABLE M\$-----	CASH FLOW ATAX M\$-----	8.0% CUM. DISC ATAX M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	26.807	9.272	0.000	320.946	0.000	-303.411	0.000	-106.194	-425.867	-369.826
12-2010	97.079	44.149	0.000	0.000	0.000	52.930	0.000	18.526	78.554	-306.662
12-2011	46.114	52.716	0.000	0.000	0.000	-6.601	0.000	-2.310	48.425	-270.609
12-2012	30.930	37.647	0.000	0.000	0.000	-6.717	0.000	-2.351	33.281	-247.666
12-2013	23.664	26.893	0.000	0.000	0.000	-3.229	0.000	-1.130	24.794	-231.840
12-2014	19.207	21.239	0.000	0.000	0.000	-2.031	0.000	-0.711	19.918	-220.068
12-2015	16.127	21.231	0.000	0.000	0.000	-5.103	0.000	-1.786	17.913	-210.265
12-2016	13.840	21.239	0.000	0.000	0.000	-7.398	0.000	-2.589	16.430	-201.940
12-2017	12.059	3.537	0.000	0.000	0.000	8.522	0.000	2.983	9.076	-197.681
12-2018	10.595	0.000	0.000	0.000	0.000	10.595	0.000	3.708	6.887	-194.690
12-2019	9.265	0.000	0.000	0.000	0.000	9.265	0.000	3.243	6.022	-192.267
12-2020	8.029	0.000	0.000	0.000	0.000	8.029	0.000	2.810	5.219	-190.324
12-2021	6.879	0.000	0.000	0.000	0.000	6.879	0.000	2.408	4.471	-188.782
12-2022	5.809	0.000	0.000	0.000	0.000	5.809	0.000	2.033	3.776	-187.576
12-2023	4.814	0.000	0.000	0.000	0.000	4.814	0.000	1.685	3.129	-186.651
S TOT	331.219	237.922	0.000	320.946	0.000	-227.649	0.000	-79.677	-147.972	-186.651
AFTER	11.596	0.000	0.000	0.000	0.000	11.596	0.000	4.059	7.537	-184.785
TOTAL	342.815	237.922	0.000	320.946	0.000	-216.053	0.000	-75.619	-140.435	-184.785

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	22.08	ATAX PAY OUT YEARS	22.08	---- RATE-OF-RETURN VS. BONUS TABLE ----			
BTAX PAYOUT YEARS (DISC)	22.08	ATAX PAY OUT YEARS (DISC)	22.08	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	0.61	ATAX NET INCOME/INVEST	0.75	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST (DISC)	0.46	ATAX NET INCOME/INVEST (DISC)	0.62	%-----	M\$-----	M\$-----	M\$-----
				0.00	-216.1	-140.4	-216.1
				2.00	-234.0	-157.1	-225.3
				5.00	-251.2	-174.2	-232.3
				8.00	-260.5	-184.8	-234.3
				10.00	-263.7	-189.2	-233.8
				12.00	-265.1	-192.1	-232.5
				15.00	-264.8	-194.2	-229.1
				18.00	-262.4	-194.3	-224.7
				20.00	-259.9	-193.5	-221.4
				25.00	-252.1	-189.8	-212.4
				30.00	-242.7	-184.4	-202.9
				35.00	-232.7	-178.0	-193.4
				40.00	-222.7	-171.3	-184.2
				45.00	-212.7	-164.4	-175.3
				50.00	-203.1	-157.5	-166.8
PRODUCTION START DATE	10/2009	PROJECT LIFE (YEARS)	22.08				
		DISCOUNT - RATE (PCT)	8.00				
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.575				
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.686				
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.				
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	0.000				
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	150.183				
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	150.183				
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000				
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000				
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500				



ROSA UNIT #152D BLANCO MV / BASIN MANCOS / BASIN DK

Spud Date 7-6-09
Completed 9-24-09
1st Delivered 10-12-09

Location: 550' FSL & 450' FWL
SW/4 SW/4 Section 36 (M), T32N, R06W
Rio Arriba Co., NM

Elevation: 6341' GR
API #: 30-039-30778

<u>Tops</u>	<u>Depth</u>
Kirtland	2520'
Lewis	3324'
Cliff House	5389'
Menefee	5434'
Point Lookout	5635'
Mancos	6112'
Dakota	7912'

Upper MV: 5173'-5527' (54, 0.34 holes) Frac with 79,800# 20/40 BASF

Lower MV: 5572'-5952' (71, 0.34 holes) Frac with 80,700# 20/40 BASF

Uppr Mancos: 6820'-7070' (78, 0.34 holes) Frac w/5000# 100 mesh followed w/ 84,964# 40/70 BASF

Lwr Mancos: 7151'-7286' (63, 0.34 holes) Frac w/5000# 100 mesh followed w/ 108,893# 40/70 BASF

Dakota: 7912'-8037' (78, 0.34" holes) Frac w/ 5100# 100 mesh BASF followed with 121,600# 40/70 mesh BASF

7 jts of 10 3/4", 40.5#, J-55, ST&C csg. Set @ 312'.

93 jts of 7-5/8", 26.4#, K-55, LT&C csg. Set @ 3686'.

Tubing: 120 jts 2-3/8", N-80, 4.7# EUE tbg,
129 jts 2-3/8", J-55, 4.7#, EUE tbg, one 1.78"
F- Nipple, one jt 2-3/8" J-55, 6.5#, EUE tbg,
one 2.3/8" Exp Chk - 1/2 M/S. EOT - 7962'
F-nipple @ 7930'

210 jts of 5-1/2", 17#, N-80, LT&C csg. Set @ 8048'.

TD @ 8052'
PBTD @ 8041'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	290 s xs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	595 s xs	1465 cu.ft.	surface
6 3/4"	5 1/2", 17#	345 s xs	481 cu.ft.	3340' - CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30778	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 152D

II. ¹⁰ Surface Location

UL or lot no. M	Section 36	Township 32N	Range 6W	Lot Idn	Feet from the 550	North/South Line SOUTH	Feet from the 450	East/West line WEST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code S	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD OCT 5 '09

IV. Well Completion Data Commingled with Mesaverde and Mancos

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 7-6-09	²² Ready Date 9-24-09	²³ TD 8052' MD	²⁴ PBD 8041' MD	²⁵ Perforations 7912'-8037'	²⁶ DHC, MC AZT-3228
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	312'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3686'	595 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8048'	345 sx - 3340' (CBL)		
	2.375", 4.7#, J-55	7962'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
		9-23-09	2 hrs	0	560 lbs
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 840 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>			10/5/09 OIL CONSERVATION DIVISION		
Printed name: Heather Riley			Approved by: <i>Charles</i> 10-13-09		
Title: Regulatory Spec.			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: Heather.Riley@williams.com			Approval Date: OCT 13 2009		
Date: 10/5/09		Phone: 505-634-4222		amended form	

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. 30-039-30778		2. Type of Lease ☒ STATE FEE ☐ FED/INDIAN	
		3. State Oil & Gas Lease No.			
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 #152D	
7. Type of Completion: X NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER				DIST. 3	
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 Dakota	
12. Location	Unit Ltr	Section	Township	Range	Lot
Surface:	M	36	32N	6W	
BH:					
13. Date Spudded 7-6-09	14. Date T.D. Reached 7-17-09	15. Date Rig Released 7-19-09		16. Date Completed (Ready to Produce) 9-24-09	
				17. Elevations (DF and RKB, RT, GR, etc.) 6341'	
18. Total Measured Depth of Well 8052'		19. Plug Back Measured Depth 8041' MD		20. Was Directional Survey Made? NO	
				21. Type Electric and Other Logs Run Array Induction, Compensated GR-Density-Neutron, Temp, Ultra Sonic Gas Detector, CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name BASIN DAKOTA: 7912'-8037'					
CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	40.5#	312'	14-3/4"	290 sxs - surface	
7-5/8"	26.4#	3686'	9-7/8"	595 sxs - surface	
5-1/2"	17#	8048'	6-3/4"	345 sxs - 3340' cbl	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
					2.375", 4.7#, J-55
					7962'
					No
26. Perforation record (interval, size, and number) Basin Dakota: Total of 78, 0.34" holes			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 7912-8037' 5100# 100 mesh & 121,600# 40/70		
PRODUCTION					
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump) Commingled with Mancos & Mesaverde per AZT-3228		Well Status (Prod. or Shut-in) Waiting on tie in	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF
9-23-09	2	1/2"			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.
0	560 lb	840 mcf/d			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) vented					30. Test Witnessed By Buddy Banks
31. List Attachments					
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: Drilling COM Date: 9/30/09
E-mail Address: larry.higgins@williams.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo 2397'	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2520'	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 2976'	T. Penn. "C"
T. Yates	T. Miss	T. Lewis 3324'	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5389'	T. Leadville
T. Queen	T. Silurian	T. Menefee 5434'	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5635'	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6112'	T. McCracken
T. Glorieta	T. McKee	T. Gallup 6600'	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinbry	T. Gr. Wash	T. Dakota 7912'	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....
No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

February 24, 2011

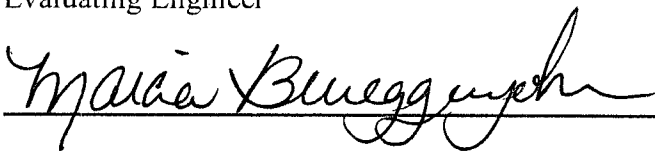
The ROSA Unit #154B DAKOTA Formation Well (non-commercial) is located 990 feet from the South Line and 880 feet from the East Line, Section 7 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 28, 2009 and completed in the Dakota formation on November 17, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8172' to 8254'. This well has a 2.375" tubing string. This well was shut in with a SICP of 440 psig. On November 15, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 632 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #154B | 1PDP | DAKOTA | J87J280RFW | 62246185
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 142 138 M/D 6 MOS EXP X	SJ_OP_POST
" 110 80 M/D 4 IMO EXP X	SJ_OP_POST
" 46 X M/D 7 EXP B/2.000 35	SJ_OP_POST
" X X M/D 30 YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 261.80843 357.79086 M\$G 09/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 26318 RSV CAT: 1PDP
 Well Name: ROSA UNIT #154B
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 15:33:09
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA					INITIAL CALCULATED DATA				
	Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
400 START	12/2009									
401 GAS	142.00	138.00	M/D	6.00	MOS	EXP X	25.548 5/2010	5.5544	4319.	4198.
402 "	110.00	80.00	M/D	4.00	IMO	EXP X	37.010 9/2010	61.5326	3346.	2433.
403 "	46.00	X	M/D	7.00	EXP	B/2.000 35.00	87.880 11/2016	35.0000	1399.	456.
404 "	X	X	M/D	30.00	YRS	EXP 7.00	149.030 11/2039	7.0000	456.	86.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M				
501 "	X	6.627	6.827	6.197	4.987	#/M				
502 "	X	4.587	5.117	6.057	6.497	#/M				
503 "	01/2008	6.377	7.277	8.087	8.277	#/M				
504 "	X	9.427	9.846	11.356	7.637	#/M				
505 "	X	6.427	4.267	2.837	4.627	#/M				
506 "	01/2009	4.827	3.107	2.687	2.617	#/M				
507 "	X	2.497	2.647	2.977	3.177	#/M				
508 "	X	2.467	3.417	4.257	4.277	#/M				
509 "	01/2010	5.72	5.31	4.66	3.77	#/M				
510 "	X	3.87	3.69	4.28	4.08	#/M				
511 "	X	3.47	4.126	5.75	5.75	#/M				
512 "		5.75	X	\$/M	TO	LIFE PC	0.00		5.750	5.750
600 ATX		4.69	X	%	TO	LIFE PC	0.00		0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE PC	0.00		0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE PC	0.00		700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE FLAT	0.00		1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE FLAT	0.00		0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE FLAT	0.00		0.865	0.865

OVERLAYS		Beginning	Ending	Rates	Schedule	Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate
901 S	92	S/95	X	FRAC	TO	LIFE	DIV 146.00			11/2039	
903 S	/89	0.49	X	FRAC	TO	LIFE	MUL 92.00			11/2039	
905 S	/89	0.99	X	FRAC	TO	LIFE	MUL 89.00			11/2039	
907 S	/196	S/196	X	FRAC	TO	LIFE	MINUS 89.00			11/2039	
909 S	/88	0.06	X	FRAC	TO	LIFE	MUL 92.00			11/2039	
911 S	/88	1.00	X	FRAC	TO	LIFE	MINUS 88.00			11/2039	
913 S	/196	S/196	X	FRAC	TO	LIFE	MUL 88.00			11/2039	
914 GAS	01/2009	0	0	0	0	0	0	0	1.2	4423.92	4400.16 #
915 "	X	3806.88	4457.04	4167.36	3440.16	2993.52	2506.08 #			30.196	7/2010
916 "	X	3113.76	1390.9	1438.64	1232.42	#				37.372	11/2010

INVESTMENTS	Tangible	Intang	Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	261.81	357.79	M&G	09/2009 AD	ESC INV	619.599	9/2009	0	619.5	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.99				
202 WELLS	0.00	1.00			
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 26318 RSV CAT: 1PDP
 Well Name: ROSA UNIT #154B
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:33:09
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---PRICES---		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF	---	---	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	4.425	0.000	3.827	0.00	3.411	1.0	0.000	13.051	13.051
12-2010	0.000	34.182	0.000	29.567	0.00	3.637	1.0	0.000	107.534	107.534
12-2011	0.000	11.975	0.000	10.359	0.00	4.766	1.0	0.000	49.368	49.368
12-2012	0.000	9.163	0.000	7.926	0.00	4.766	1.0	0.000	37.776	37.776
12-2013	0.000	7.717	0.000	6.675	0.00	4.766	1.0	0.000	31.812	31.812
12-2014	0.000	6.794	0.000	5.877	0.00	4.766	1.0	0.000	28.010	28.010
12-2015	0.000	6.140	0.000	5.311	0.00	4.766	1.0	0.000	25.313	25.313
12-2016	0.000	5.645	0.000	4.883	0.00	4.766	1.0	0.000	23.272	23.272
12-2017	0.000	5.242	0.000	4.535	0.00	4.766	1.0	0.000	21.612	21.612
12-2018	0.000	4.875	0.000	4.217	0.00	4.766	1.0	0.000	20.099	20.099
12-2019	0.000	4.534	0.000	3.922	0.00	4.766	1.0	0.000	18.692	18.692
12-2020	0.000	4.217	0.000	3.647	0.00	4.766	1.0	0.000	17.384	17.384
12-2021	0.000	3.922	0.000	3.392	0.00	4.766	1.0	0.000	16.167	16.167
12-2022	0.000	3.647	0.000	3.155	0.00	4.766	1.0	0.000	15.035	15.035
12-2023	0.000	3.392	0.000	2.934	0.00	4.766	1.0	0.000	13.983	13.983
S TOT	0.000	115.871	0.000	100.227	0.00	4.381	1.0	0.000	439.107	439.107
AFTER	0.000	14.462	0.000	12.510	0.00	4.766	1.0	0.000	59.620	59.620
TOTAL	0.000	130.333	0.000	112.737	0.00	4.424	1.0	0.000	498.727	498.727

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.079	0.700	0.000	11.272	261.808	357.791	0.000	619.599	-608.327	-521.417	
12-2010	8.890	8.400	0.000	90.244	0.000	0.000	0.000	0.000	90.244	-448.854	
12-2011	4.081	8.400	0.000	36.887	0.000	0.000	0.000	0.000	36.887	-421.391	
12-2012	3.123	8.400	0.000	26.253	0.000	0.000	0.000	0.000	26.253	-403.293	
12-2013	2.630	8.400	0.000	20.782	0.000	0.000	0.000	0.000	20.782	-390.028	
12-2014	2.316	8.400	0.000	17.294	0.000	0.000	0.000	0.000	17.294	-379.807	
12-2015	2.093	8.400	0.000	14.821	0.000	0.000	0.000	0.000	14.821	-371.696	
12-2016	1.924	8.400	0.000	12.948	0.000	0.000	0.000	0.000	12.948	-365.136	
12-2017	1.787	8.400	0.000	11.425	0.000	0.000	0.000	0.000	11.425	-359.775	
12-2018	1.662	8.400	0.000	10.037	0.000	0.000	0.000	0.000	10.037	-355.415	
12-2019	1.545	8.400	0.000	8.747	0.000	0.000	0.000	0.000	8.747	-351.897	
12-2020	1.437	8.400	0.000	7.546	0.000	0.000	0.000	0.000	7.546	-349.086	
12-2021	1.337	8.400	0.000	6.430	0.000	0.000	0.000	0.000	6.430	-346.869	
12-2022	1.243	8.400	0.000	5.392	0.000	0.000	0.000	0.000	5.392	-345.147	
12-2023	1.156	8.400	0.000	4.427	0.000	0.000	0.000	0.000	4.427	-343.838	
S TOT	36.302	118.300	0.000	284.505	261.808	357.791	0.000	619.599	-335.095	-343.838	
AFTER	4.929	44.800	0.000	9.891	0.000	0.000	0.000	0.000	9.891	-341.368	
TOTAL	41.231	163.100	0.000	294.396	261.808	357.791	0.000	619.599	-325.203	-341.368	

PropID: 26318 RSV CAT: 1PDP
 Well Name: ROSA UNIT #154B
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:33:09
 DBS : SUB
 SETTINGS : SETDATA_JCM
 SCENARIO : SUB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG. EXPENSED	INTEREST PAID & CAP	TAXABLE INCOME	TAX CREDIT	TAXES PAYABLE	CASH FLOW	8.0% CUM. DISC
MO-YEAR	CASH FLOW	TION	MS-----	MS-----	MS-----	MS-----	MS-----	MS-----	ATAX	ATAX
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	11.272	4.157	0.000	357.791	0.000	-350.675	0.000	-122.736	-485.591	-414.832
12-2010	90.244	54.628	0.000	0.000	0.000	35.616	0.000	12.466	77.778	-352.293
12-2011	36.887	58.008	0.000	0.000	0.000	-21.121	0.000	-7.392	44.279	-319.326
12-2012	26.253	41.427	0.000	0.000	0.000	-15.173	0.000	-5.311	31.564	-297.567
12-2013	20.782	29.593	0.000	0.000	0.000	-8.811	0.000	-3.084	23.866	-282.333
12-2014	17.294	23.371	0.000	0.000	0.000	-6.077	0.000	-2.127	19.421	-270.855
12-2015	14.821	23.362	0.000	0.000	0.000	-8.542	0.000	-2.990	17.810	-261.108
12-2016	12.948	23.371	0.000	0.000	0.000	-10.423	0.000	-3.648	16.596	-252.699
12-2017	11.425	3.892	0.000	0.000	0.000	7.533	0.000	2.636	8.789	-248.576
12-2018	10.037	0.000	0.000	0.000	0.000	10.037	0.000	3.513	6.524	-245.741
12-2019	8.747	0.000	0.000	0.000	0.000	8.747	0.000	3.061	5.685	-243.455
12-2020	7.546	0.000	0.000	0.000	0.000	7.546	0.000	2.641	4.905	-241.628
12-2021	6.430	0.000	0.000	0.000	0.000	6.430	0.000	2.251	4.180	-240.186
12-2022	5.392	0.000	0.000	0.000	0.000	5.392	0.000	1.887	3.505	-239.067
12-2023	4.427	0.000	0.000	0.000	0.000	4.427	0.000	1.549	2.877	-238.216
S TOT	284.505	261.808	0.000	357.791	0.000	-335.095	0.000	-117.283	-217.812	-238.216
AFTER	9.891	0.000	0.000	0.000	0.000	9.891	0.000	3.462	6.429	-236.611
TOTAL	294.396	261.808	0.000	357.791	0.000	-325.203	0.000	-113.821	-211.382	-236.611

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	21.67	ATAX PAY OUT YEARS	21.67
BTAX PAYOUT YEARS (DISC)	21.67	ATAX PAY OUT YEARS (DISC)	21.67
BTAX NET INCOME/INVEST	0.48	ATAX NET INCOME/INVEST	0.66
BTAX NET INCOME/INVEST(DISC)	0.36	ATAX NET INCOME/INVEST(DISC)	0.55

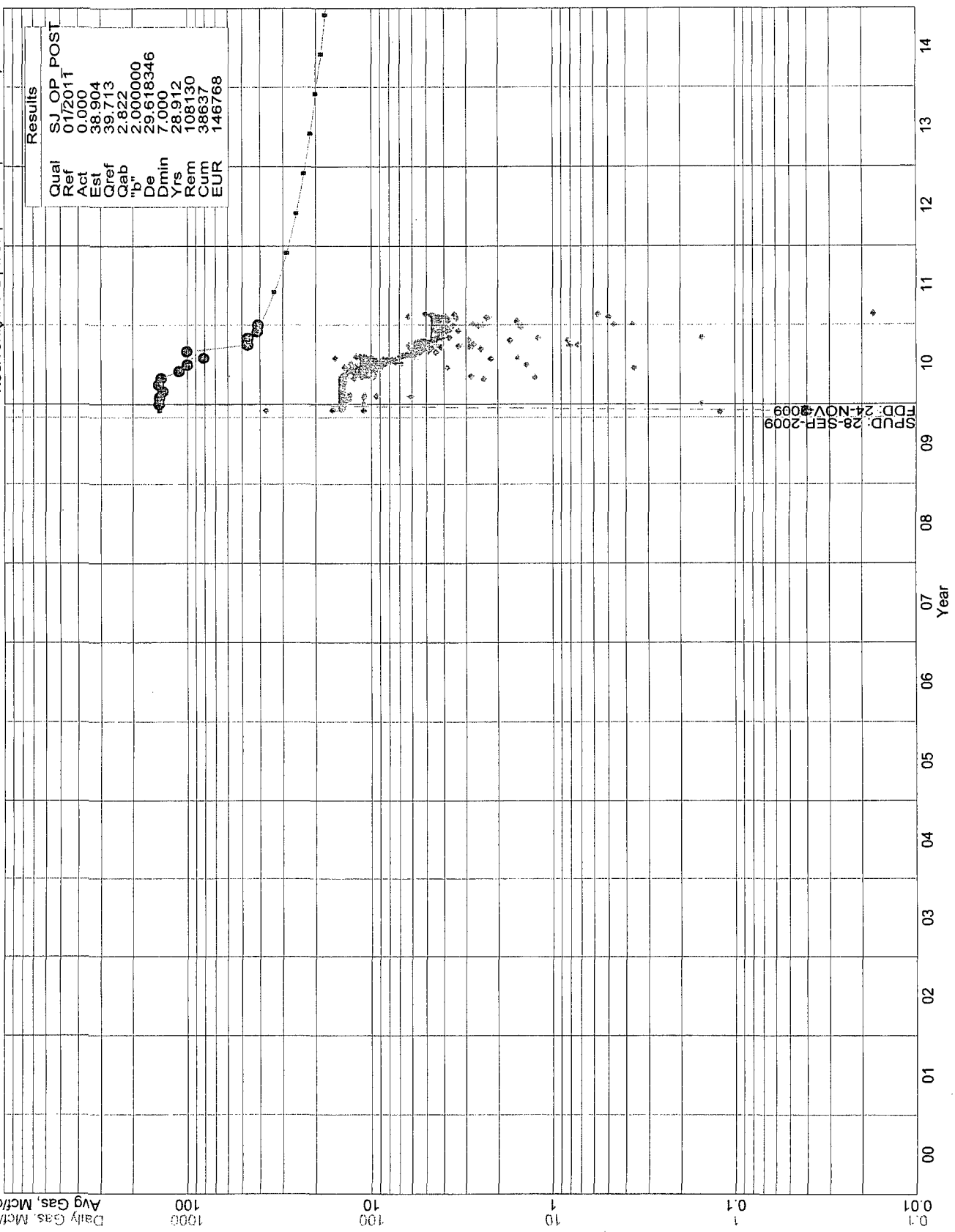
PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	21.67
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.229
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.766
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.

CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-0.001
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	130.333
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	130.332

INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	318890.844	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-325.2	-211.4	-325.2
2.00	-334.8	-222.5	-318.2
5.00	-341.2	-232.3	-308.1
8.00	-341.4	-236.6	-297.9
10.00	-339.1	-237.3	-291.1
12.00	-335.6	-236.8	-284.3
15.00	-328.6	-234.2	-274.1
18.00	-320.3	-230.2	-264.1
20.00	-314.3	-227.0	-257.6
25.00	-298.7	-217.7	-241.7
30.00	-282.8	-207.7	-226.8
35.00	-267.3	-197.4	-212.9
40.00	-252.5	-187.2	-200.0
45.00	-238.5	-177.5	-188.0
50.00	-225.4	-168.2	-177.0

SUB_AvgDay_Gas



ROSA UNIT #154B
BLANCO MV / BASIN MC / BASIN DK

Spud: 09/28/09

Completed: 11/17/09

1st Delivery: 11/24/09

Surface Location:

990' FSL and 880' FEL
SE/4 SE/4 Sec 7 (P), T31N, R05W
Rio Arriba, NM

Bottom Hole Location:

2336' FSL and 975' FEL
NE/4 SE/4 Sec 7 (I), T31N, R05W
Rio Arriba, NM

Elevation: 6355' GR

API # 30-039-30804

Top	MD Depth	TVD Depth
Lewis	3770'	3523'
Cliffhouse Ss.	5653'	5404'
Point Lookout	5925'	5675'
Mancos	6429'	6179'
Graneros	8035'	7785'
Dakota	8170'	7920'

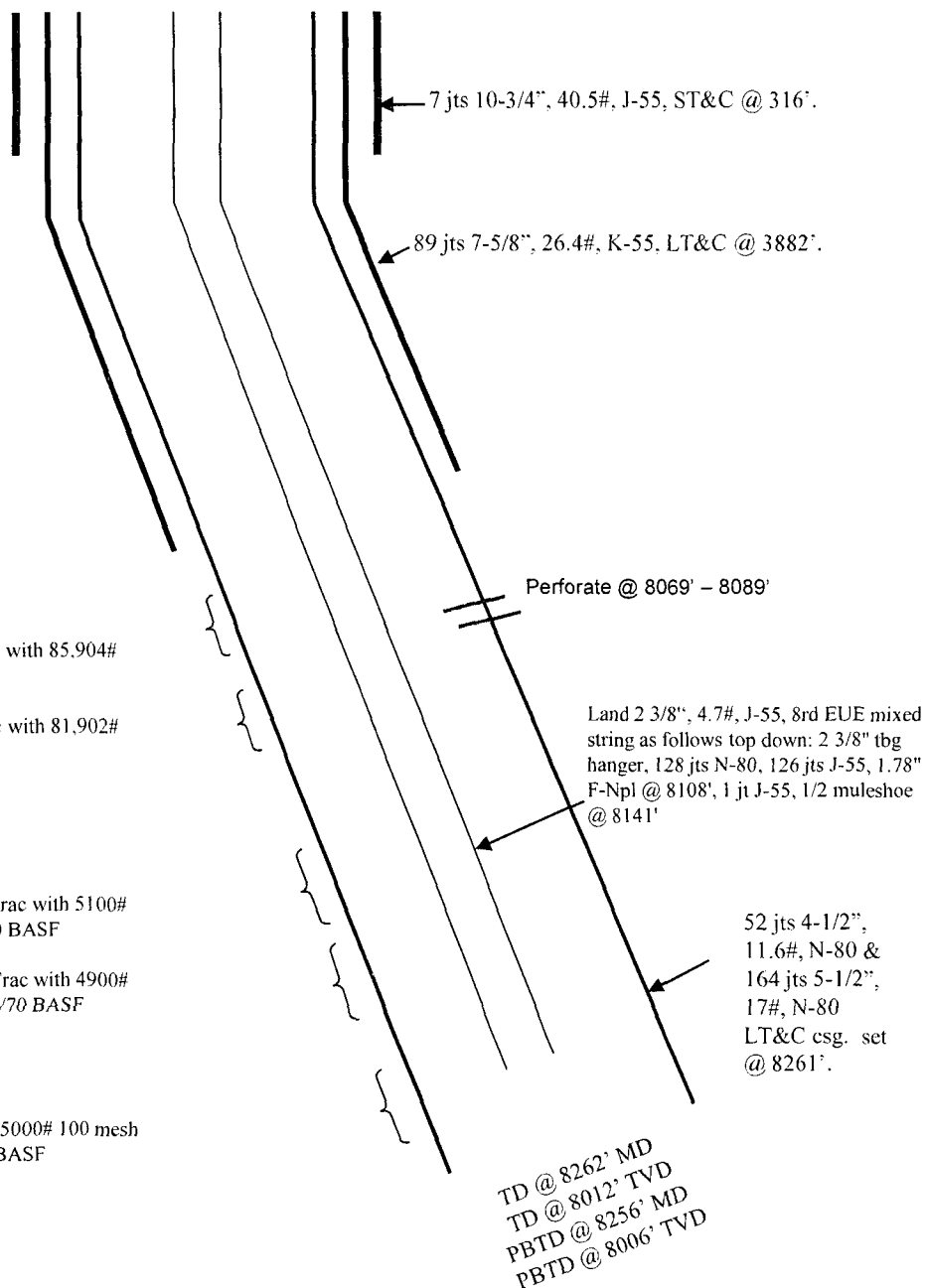
Upper MV: 5669'-5879' (52, 0.34" holes) Frac with 85,904#
20/40 mesh BASF

Lower MV: 5925'-6324' (56, 0.34" holes) Frac with 81,902#
20/40 mesh BASF

Upper Mancos: 7100'-7310' (66, 0.34" holes) Frac with 5100#
100 mesh followed with 119,800# 40/70 BASF

Lower Mancos: 7400'-7750' (75, 0.34" holes) Frac with 4900#
100 mesh BASF followed with 97,800# 40/70 BASF

Dakota: 8172'-8254' (66, 0.34" holes) Frac with 5000# 100 mesh
BASF followed with 102,900# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	600 sxs	1483 cu.ft.	Surface
6-3/4"	5-1/2", 17#			
6-3/4"	4-1/2", 11.6#	590 sxs	826 cu. ft.	1760' (CBL)
Production csg mixed string of 52 jts 4-1/2" & 164 jts 5-1/2"				

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078767

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8. FARM OR LEASE NAME, WELL NO.
Rosa Unit #154B

9. API WELL NO.

30-039-30804-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 7, T31N, R5W

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

20. TOTAL DEPTH, MD & TVD
8262' MD / 8012' TVD

21. PLUG, BACK T.D., MD & TVD
8256' MD / 8006' TVD

22. IF MULTICOMP.,
HOW MANY
3*

23. INTERVALS
DRILLED BY

ROTARY TOOLS
X

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORED
No

15. DATE
SPUDDED
9-28-09

16. DATE T.D.
REACHED
10-10-09

17. DATE COMPLETED (READY TO PRODUCE)
11-17-09

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6355' GR

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA: 8172'-8254' MD

Commingled with Mesaverde and Mancos per AZT-3277

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Ultra Sonic Gas Detector and CBL

28. CASING REPORT (Report all strings set in well) NOTE: production casing is mixed string of 52 its 4-1/2" (6252'-8262') & 164 its 5-1/2" (surface-6252')

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", J-55	40.5#	316'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3882'	9-7/8"	600 SX - SURFACE	
5-1/2", N-80	17.0#	SEE BELOW	9-7/8"	SEE BELOW	
4-1/2", N-80	11.6#	8261'	6-3/4"	590 SX -1760' (CBL)	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55 & N-80 EUE 8rd	8141'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 66, 0.34" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8172'-8254'	Fraced with 5000# 100 mesh BASF followed with 102,900# 40/70 mesh BASF

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
11-15-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	440 lb				632 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Sergio Borunda

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM.

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

SIGNED

Larry Higgins

TITLE Drlg COM

DATE 11-20-09

OPERATOR

TL Salpers

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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					LEWIS	3770'	3523'
					CLIFFHOUSE	5653'	5404'
					POINT LOOKOUT	5925'	5675'
					MANCOS	6429'	6179'
					GRANEROS	8035'	7785'
					DAKOTA	8170'	7920'

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30804	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 154B

II. ¹⁰ Surface Location

Ul or lot no. P	Section 7	Township 31N	Range 5W	Lot.Idn	Feet from the 990	North/South Line SOUTH	Feet from the 880	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. 1	Section 7	Township 31N	Range 5W	Lot Idn	Feet from the 2336	North/South line SOUTH	Feet from the 975	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	²⁰ O/G/W O
009018		
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD NOV 23 '09

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 9-28-09	²² Ready Date 11-17-09	²³ TD 8262' MD	²⁴ PBTD 8256' MD	²⁵ Perforations 8172'-8254'	²⁶ DHC, MC AZT-3277
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 316'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3882'	600 sx - surface		
6-3/4"	5-1/2", 17#, N-80	Production csg mix of 164 joints	5-1/2" & 52 jts 4-1/2"		
6-3/4"	4-1/2", 11.6#, N-80	8261'	590 sx -1760' (CBL)		
	2.375", 4.7#, J-55 & N-80	8141'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-15-09	³⁴ Test Length 2 hr	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 440 lb
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 632 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Larry Higgins

Title:

Dirg COM

E-mail Address:

larry.higgins@williams.com

Date:

11-20-09

Phone:

505-634-4208

12-1-09 OIL CONSERVATION DIVISION

Approved by:

Title:

SENIOR OIL & GAS INSPECTOR, DIST. 3

Approval Date:

DEC 02 2009

Bern appol

February 28, 2011

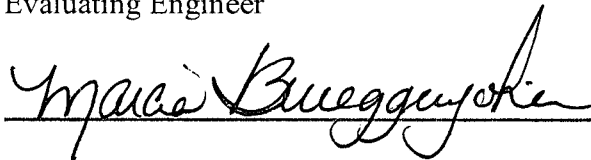
The ROSA Unit #156D DAKOTA Formation Well (non-commercial) is located 1075 feet from the North Line and 995 feet from the East Line, Section 9 Township 31 North, Range 6 West, N.M.P.M., San Juan County, New Mexico. This well was spud on July 4, 2009 and completed in the Dakota formation on September 26, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8172' to 8300'. This well has a 2.375" tubing string. This well was shut in with a SICP of 550 psig. On September 25, 2009 the well was tested and after flowing for 3 hours through a 1/2" choke on the 2.375" tubing, the well gauged 791 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 1.15% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #156D | 1PDP | DAKOTA | JAL9BEJMJ3 | 62263910
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 11/2009	SJ_OP_POST
GAS 236 196 M/D 9 MOS EXP X	SJ_OP_POST
" 86 X M/D 7 EXP B/2.0000 35	SJ_OP_POST
" X X M/D 30 YRS EXP 7	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 298.64933 342.71924 M\$G 10/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #156D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 15:35:22
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

	COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	11/2009											
401 GAS	236.00	196.00	M/D	9.00	MOS	EXP	X	58.961	7/2010	21.9345	7178.	
402 "	86.00	X	M/D	7.00	EXP	B/2.0000	35.00	154.066	9/2016	35.0000	2616.	
403 "	X	X	M/D	30.00	YRS	EXP	7.00	268.549	10/2039	7.0000	852.	
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010			
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	10/2039	5.750	5.750	
600 ATX	4.69	X	%	TO	LIFE	PC	0.00		10/2039	0.047	0.047	
601 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		10/2039	0.037	0.037	
602 OPC/T	700.00	X	\$/M	TO	LIFE	PC	0.00		10/2039	700.000	700.000	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00		10/2039	1.000	1.000	
720 NET/OIL	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		10/2039	0.865	0.865	
740 NET/GAS	0.8650	D	FRAC	TO	LIFE	FLAT	0.00		10/2039	0.865	0.865	
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	10/2039				
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	10/2039				
905 S /89	0.99	X	FRAC	TO	LIFE	MUL	89.00	10/2039				
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	10/2039				
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	10/2039				
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	10/2039				
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	10/2039				
914 GAS	01/2009	0	0	0	0	0	0	4533.84	7084.56	7440	#	
915 "	X	7439.04	6711.36	6842.64	5942.4	6086.4	4234.85	#	56.315	6/2010		
916 "	X	2691.72	2757.36	2348.64	2360.64	1578.12	#		68.052	11/2010		
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	298.65	342.72	M\$G	10/2009	AD	ESC	INV	641.369	10/2009	0	641.3	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.99
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #156D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 15:35:22
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF			OIL, MBBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	19.058			0.000	12.564			0.00	3.390	1.0	0.000	42.588	42.588
12-2010	0.000	51.120			0.000	44.219			0.00	3.667	1.0	0.000	162.169	162.169
12-2011	0.000	21.164			0.000	18.307			0.00	4.749	1.0	0.000	86.941	86.941
12-2012	0.000	16.573			0.000	14.336			0.00	4.749	1.0	0.000	68.084	68.084
12-2013	0.000	14.090			0.000	12.188			0.00	4.749	1.0	0.000	57.882	57.882
12-2014	0.000	12.471			0.000	10.788			0.00	4.749	1.0	0.000	51.233	51.233
12-2015	0.000	11.308			0.000	9.782			0.00	4.749	1.0	0.000	46.455	46.455
12-2016	0.000	10.420			0.000	9.013			0.00	4.749	1.0	0.000	42.806	42.806
12-2017	0.000	9.683			0.000	8.376			0.00	4.749	1.0	0.000	39.779	39.779
12-2018	0.000	9.005			0.000	7.790			0.00	4.749	1.0	0.000	36.994	36.994
12-2019	0.000	8.375			0.000	7.244			0.00	4.749	1.0	0.000	34.405	34.405
12-2020	0.000	7.789			0.000	6.737			0.00	4.749	1.0	0.000	31.996	31.996
12-2021	0.000	7.243			0.000	6.266			0.00	4.749	1.0	0.000	29.756	29.756
12-2022	0.000	6.736			0.000	5.827			0.00	4.749	1.0	0.000	27.674	27.674
12-2023	0.000	6.265			0.000	5.419			0.00	4.749	1.0	0.000	25.736	25.736
S TOT	0.000	211.303			0.000	178.855			0.00	4.386	1.0	0.000	784.497	784.497
AFTER	0.000	52.548			0.000	45.454			0.00	4.749	1.0	0.000	215.867	215.867
TOTAL	0.000	263.850			0.000	224.309			0.00	4.460	1.0	0.000	1000.364	1000.364

--END-- MO-YEAR	--OPERATIONS, M\$--				--CAPITAL COSTS, M\$--				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH FLOW BTAX, M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	3.521	1.400	0.000	37.667	298.649	342.719	0.000	641.369	-603.702	-513.645
12-2010	13.407	8.400	0.000	140.362	0.000	0.000	0.000	0.000	140.362	-400.782
12-2011	7.188	8.400	0.000	71.353	0.000	0.000	0.000	0.000	71.353	-347.658
12-2012	5.629	8.400	0.000	54.055	0.000	0.000	0.000	0.000	54.055	-310.395
12-2013	4.785	8.400	0.000	44.697	0.000	0.000	0.000	0.000	44.697	-281.864
12-2014	4.236	8.400	0.000	38.597	0.000	0.000	0.000	0.000	38.597	-259.052
12-2015	3.841	8.400	0.000	34.214	0.000	0.000	0.000	0.000	34.214	-240.329
12-2016	3.539	8.400	0.000	30.867	0.000	0.000	0.000	0.000	30.867	-224.688
12-2017	3.289	8.400	0.000	28.090	0.000	0.000	0.000	0.000	28.090	-211.509
12-2018	3.058	8.400	0.000	25.536	0.000	0.000	0.000	0.000	25.536	-200.416
12-2019	2.844	8.400	0.000	23.160	0.000	0.000	0.000	0.000	23.160	-191.100
12-2020	2.645	8.400	0.000	20.951	0.000	0.000	0.000	0.000	20.951	-183.297
12-2021	2.460	8.400	0.000	18.896	0.000	0.000	0.000	0.000	18.896	-176.781
12-2022	2.288	8.400	0.000	16.986	0.000	0.000	0.000	0.000	16.986	-171.357
12-2023	2.128	8.400	0.000	15.209	0.000	0.000	0.000	0.000	15.209	-166.860
S TOT	64.857	119.000	0.000	600.640	298.649	342.719	0.000	641.369	-40.728	-166.860
AFTER	17.846	115.500	0.000	82.521	0.000	0.000	0.000	0.000	82.521	-149.391
TOTAL	82.703	234.500	0.000	683.161	298.649	342.719	0.000	641.369	41.793	-149.391

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #156D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
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 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

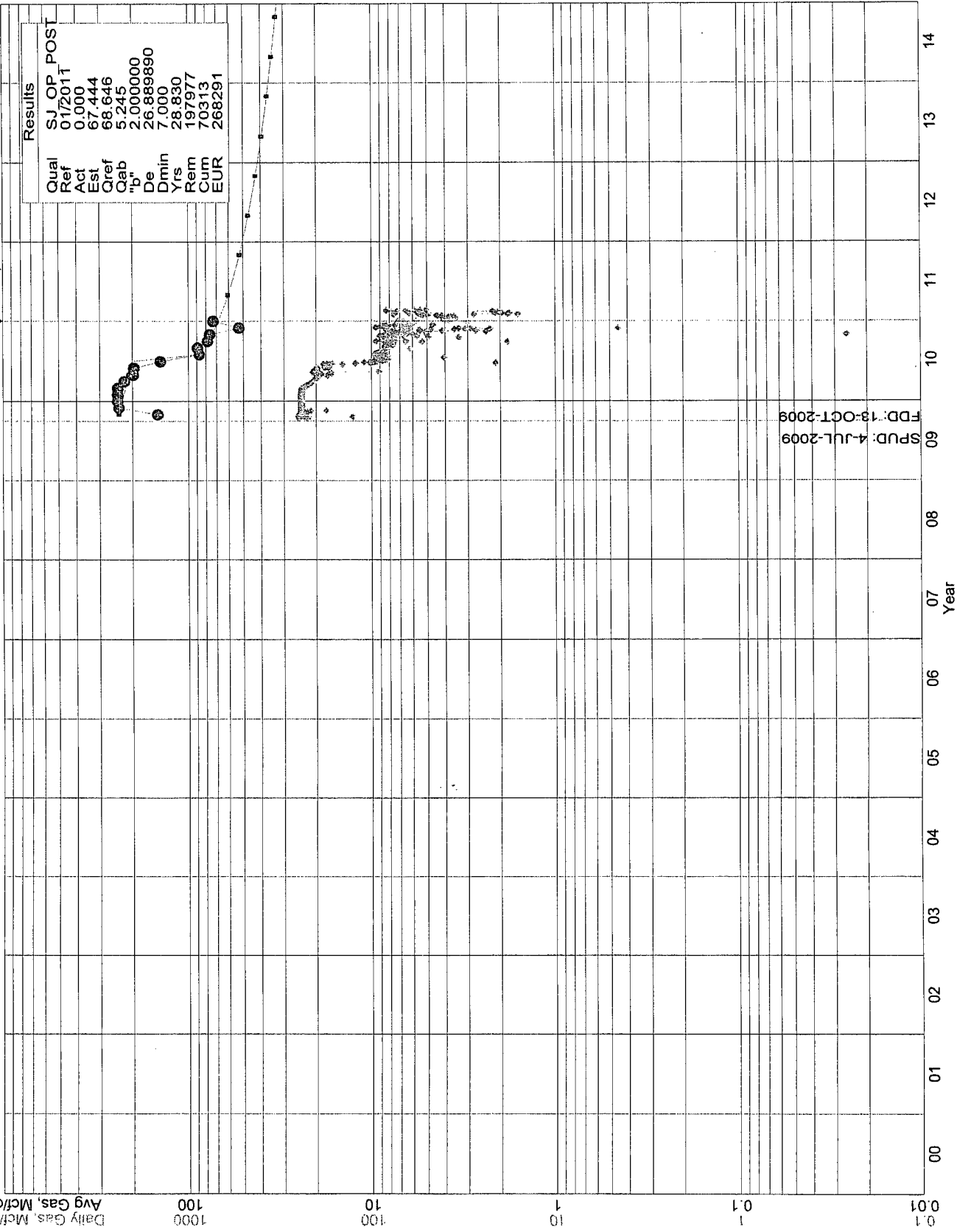
--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0% CUM. DISC
MO-YEAR	CASH FLOW			EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	ATAX
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	37.667	8.535	0.000	342.719	0.000	-313.588	0.000	-109.756	-493.946	-418.332
12-2010	140.362	58.521	0.000	0.000	0.000	81.841	0.000	28.644	111.718	-328.502
12-2011	71.353	66.171	0.000	0.000	0.000	5.183	0.000	1.814	69.540	-276.729
12-2012	54.055	47.256	0.000	0.000	0.000	6.799	0.000	2.380	51.675	-241.105
12-2013	44.697	33.757	0.000	0.000	0.000	10.940	0.000	3.829	40.868	-215.019
12-2014	38.597	26.659	0.000	0.000	0.000	11.938	0.000	4.178	34.419	-194.676
12-2015	34.214	26.649	0.000	0.000	0.000	7.565	0.000	2.648	31.567	-177.402
12-2016	30.867	26.659	0.000	0.000	0.000	4.208	0.000	1.473	29.394	-162.508
12-2017	28.090	4.440	0.000	0.000	0.000	23.650	0.000	8.278	19.812	-153.212
12-2018	25.536	0.000	0.000	0.000	0.000	25.536	0.000	8.937	16.598	-146.001
12-2019	23.160	0.000	0.000	0.000	0.000	23.160	0.000	8.106	15.054	-139.946
12-2020	20.951	0.000	0.000	0.000	0.000	20.951	0.000	7.333	13.618	-134.874
12-2021	18.896	0.000	0.000	0.000	0.000	18.896	0.000	6.614	12.283	-130.638
12-2022	16.986	0.000	0.000	0.000	0.000	16.986	0.000	5.945	11.041	-127.113
12-2023	15.209	0.000	0.000	0.000	0.000	15.209	0.000	5.323	9.886	-124.190
S TOT	600.640	298.649	0.000	342.719	0.000	-40.728	0.000	-14.255	-26.473	-124.190
AFTER	82.521	0.000	0.000	0.000	0.000	82.521	0.000	28.882	53.639	-112.835
TOTAL	683.161	298.649	0.000	342.719	0.000	41.793	0.000	14.627	27.165	-112.835

BTAX RATE OF RETURN (PCT)	1.15	ATAX RATE OF RETURN (PCT)	1.04
BTAX PAYOUT YEARS	19.83	ATAX PAY OUT YEARS	19.83
BTAX PAYOUT YEARS (DISC)	30.08	ATAX PAY OUT YEARS (DISC)	30.08
BTAX NET INCOME/INVEST	1.07	ATAX NET INCOME/INVEST	1.04
BTAX NET INCOME/INVEST(DISC)	0.73	ATAX NET INCOME/INVEST(DISC)	0.79
PRODUCTION START DATE	11/2009	PROJECT LIFE (YEARS)	30.08
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.382
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.749
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMCF)	-4.534
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	263.850
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	259.316
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	135.165	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	41.8	27.2	41.8
2.00	-30.9	-25.3	-35.7
5.00	-103.9	-78.9	-102.5
8.00	-149.4	-112.8	-139.1
10.00	-169.7	-128.3	-154.3
12.00	-184.5	-139.7	-164.6
15.00	-199.1	-151.3	-174.0
18.00	-207.5	-158.0	-178.6
20.00	-210.5	-160.7	-179.8
25.00	-212.6	-162.8	-178.6
30.00	-209.5	-160.9	-174.0
35.00	-203.7	-156.8	-167.7
40.00	-196.4	-151.4	-160.5
45.00	-188.4	-145.3	-153.1
50.00	-180.3	-139.1	-145.6

SJB_AvgDay_Gas

ROSA UNIT#156D | 1PDP | DAKOTA | JAL9BEJMJ3 | 62263910



Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	67.444
Gref	68.646
Qab	5.245
"b"	2.000000
De	26.889890
Dmin	7.000
Yrs	28.830
Rein	197977
Cum	70313
EUR	268291

SPUD: 4-JUL-2009
FDD: 13-OCT-2009

ROSA UNIT #156D
BLANCO MV / BASIN MC / BASIN DK

Surface Location:

1075' FNL and 995' FEL
 NE/4 NE/4 Sec 9 (A), T31N, R06W
 San Juan, NM

Bottom Hole Location:

1809' FNL and 1859' FEL
 SW/4 NE/4 Sec 9 (G), T31N, R06W
 San Juan, NM

Elevation: 6447' GR

API # 30-045-34981

Spud: 07/04/09

Completed: 09/26/09

1st Delivery: 0/0/00

Top	MD Depth	TVD Depth
Pictured Cliffs	3455'	3250'
Lewis	3739'	3532'
Cliffhouse Ss.	5657'	5449'
Menefee	5707'	5499'
Point Lookout	5940'	5732'
Mancos	6469'	6261'
Dakota	8171'	7963'

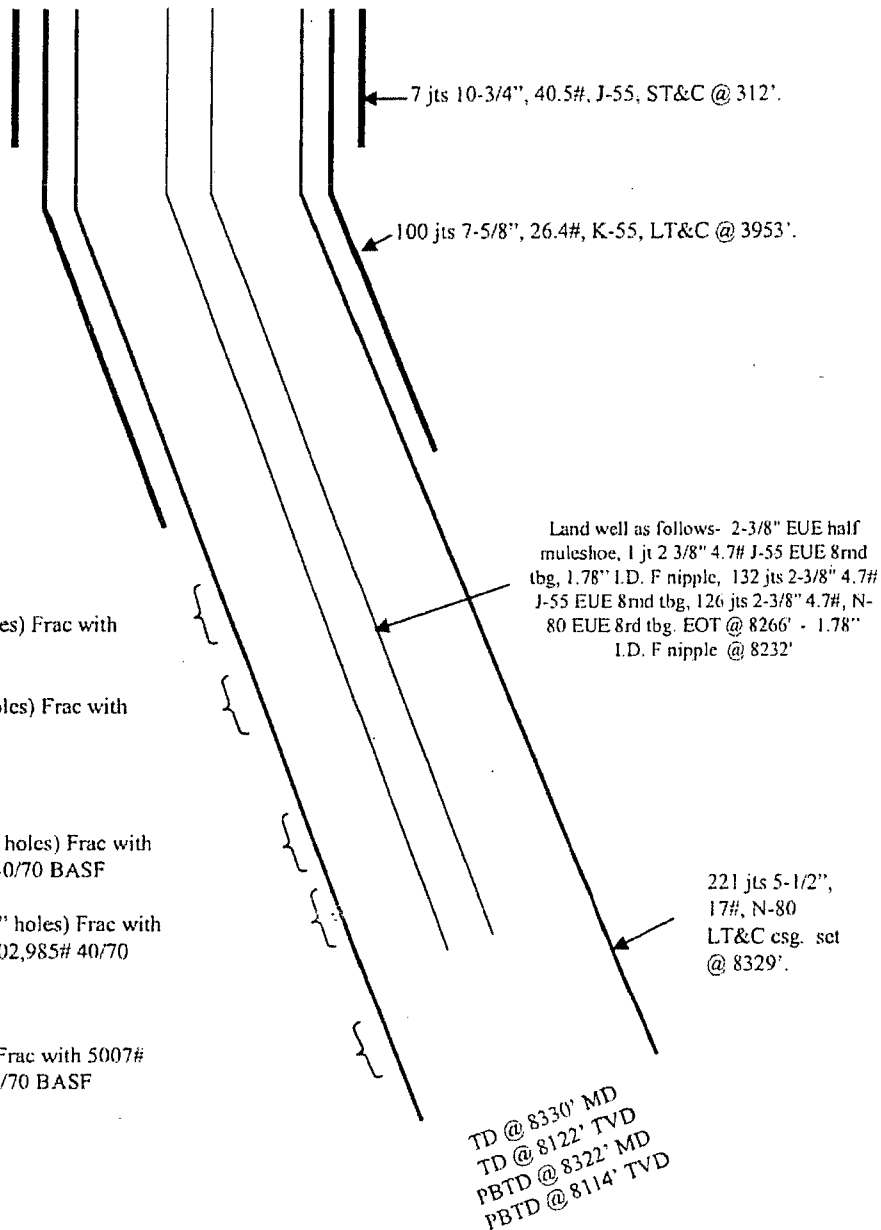
Upper MV: 5670'-5898' (54, 0.34" holes) Frac with
 78,706# 20/40 mesh BASF

Lower MV: 5918'-6194' (64, 0.34" holes) Frac with
 78,472# 20/40 mesh BASF

Upper Mancos: 7108'-7338' (72, 0.34" holes) Frac with
 5037# 100 mesh followed w/106,179# 40/70 BASF

Lower Mancos: 7413'-7610' (72, 0.34" holes) Frac with
 5011# 100 mesh BASF followed with 102,985# 40/70
 BASF

Dakota: 8172'-8300' (93, 0.34" holes) Frac with 5007#
 100 mesh BASF followed w/81,618# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	665 sxs	1650 cu.ft.	Surface
6-3/4"	5-1/2", 17#	360 sxs	504 cu.ft.	3685' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-045-34981	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 156D

II. ¹⁰ Surface Location

UL or lot no. A	Section 9	Township 31N	Range 6W	Lot Idn	Feet from the 1075	North/South Line NORTH	Feet from the 995	East/West line EAST	County SAN JUAN

" Bottom Hole Location

UL or lot no. G	Section 9	Township 31N	Range 6W	Lot Idn	Feet from the 1809	North/South line NORTH	Feet from the 1859	East/West line EAST	County SAN JUAN
¹² Lse Code	¹¹ Producing Method Code	¹³ Gas Connection Date	¹⁴ C-129 Permit Number	¹⁵ C-129 Effective Date	¹⁶ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD SEP 29 '09

OIL CONS. DIV.

IV. Well Completion Data NOTE: Commingled with Mesaverde & Mancos

DIST. 3

²¹ Spud Date 7-4-09	²² Ready Date 9-26-09	²³ TD 8330' MD	²⁴ PBTD 8114' MD	²⁵ Perforations 8172' - 8300'	²⁶ DHC, MC AZT-3225
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	312'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3953'	665 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8329'	360 sx - 3685' (CBL)		
	2.375", 4.7#, J-55	8266'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-25-09	³⁴ Test Length 3 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 550 lb
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 791 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			10/7/09 OIL CONSERVATION DIVISION Approved by: <i>Charles R. 10-8-09</i>		
Printed name: Larry Higgins			Title: SUPERVISOR DISTRICT # 3		
Title: Drig COM			Approval Date: OCT 0 8 2009		
E-mail Address: larry.higgins@williams.com					
Date: 9-28-09		Phone: 505-634-4208		<i>Ann April</i>	

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT-IN
DUPLICATE

SEP 28 2009

(See other instructions on
reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a	TYPE OF WELL	OIL WELL	☒ GAS WELL	DRY	OTHER
b	TYPE OF COMPLETION:	☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER			
2	NAME OF OPERATOR	WILLIAMS PRODUCTION COMPANY			
3	ADDRESS AND TELEPHONE NO	P.O. Box 640, Aztec, NM 87410 (505) 634-4208			
4	LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*	At Surface: 1075' FNL & 995' FEL, sec 9, T31N, R6W At top production interval reported below: 1809' FNL & 1859' FEL, sec 9, T31N, R6W ✓ At total depth: Same			
5	LEASE DESIGNATION AND LEASE NO	NMSF-078765			
6	IF INDIAN, ALLOTTEE OR				
7	UNIT AGREEMENT NAME	Rosa Unit			
8	FARM OR LEASE NAME, WELL NO	Rosa Unit #156D			
9	API WELL NO	30-045-34981-0001			
10	FIELD AND POOL, OR WILDCAT	Basin Dakota			
11	SEC., T, R, M, OR BLOCK AND SURVEY OR AREA	Sec 9, T31N, R6W			
12	COUNTY OR	San Juan			
13	STATE	New Mexico			
14	PERMIT NO	DATE ISSUED			
15	DATE SPUDDED	7-4-09			
16	DATE T D REACHED	7-16-09			
17	DATE COMPLETED (READY TO PRODUCE)	9-26-09			
18	ELEVATIONS (DK, RKB, RT, GR, ETC)*	6447' GR			
19	ELEVATION CASING HEAD				
20	TOTAL DEPTH, MD & TVD	8330' MD / 8122' TVD			
21	PLUG, BACK T D, MD & TVD	8322' MD / 8114' TVD			
22	IF MULTICOMP, HOW MANY	3*			
23	INTERVALS DRILLED BY				
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*	BASIN DAKOTA. 8172'-8300' MD Commingled with Mesaverde and Mancos per AZT-3225			
25	WAS DIRECTIONAL SURVEY MADE	YES			
26	TYPE ELECTRIC AND OTHER LOGS RUN	Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL			
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
10-3/4", J-55	40.5#	312'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3953'	9-7/8"	665 SX - SURFACE	
5-1/2", N-80	17.0#	8329'	6-3/4"	360 SX - 3685' (CBL)	

29 LINER RECORD				30 TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4.7#, J-55 & N-80 EUE 8rd	8266'	none

31 PERFORATION RECORD (Interval, size, and number)				32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC			
Dakota Total of 93, 0 34" holes ✓				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED		
				8172'-8300'	Fraced with 5007# 100 mesh BASF followed with 81,618# 40/70 mesh BASF		

33 PRODUCTION

DATE OF FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)		
	Flowing ✓				SI - waiting on tie-in ✓		
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
9-25-09 ✓	3 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	550 lb				791 mcf/d ✓		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.). TO BE SOLD

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 Drilg COM DATE 9-28-09

NMOCD

ACCEPTED FOR RECORD

SEP 29 2009

FARMINGTON FIELD OFFICE
BY JL Salves

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)

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	TOP		TRUE VERTICAL DEPTH	
					NAME	MEASURED DEPTH		
					PICTURED CLIFFS	3455'	3250'	
					LEWIS	3739'	3532'	
					CLIFFHOUSE	5657'	5449'	
					MENEFEE	5707'	5499'	
					POINT LOOKOUT	5940'	5732'	
					MANCOS	6469'	6261'	
					DAKOTA	8171'	7963'	

February 28, 2011

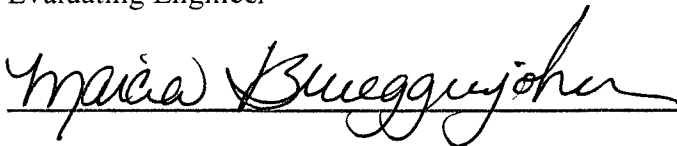
The ROSA Unit #164C DAKOTA Formation Well (non-commercial) is located 1840 feet from the South Line and 865 feet from the East Line, Section 1 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 1, 2009 and completed in the Dakota formation on June 4, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8303' to 8441'. This well has a 2.375" tubing string. This well was shut in with a SICP of 1.5 psig. On June 4, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 752 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #164C | 1PDP | DAKOTA | J7PKM8IOG7 | 62246186
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 05/2009	SJ_OP_POST
GAS 325 190 M/D 5 MOS EXP X	SJ_OP_POST
" 170 X M/D 5 EXP B/1.7 65	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 335 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 05/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 22443 RSV CAT: 1PDP
 Well Name: ROSA UNIT #164C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/28/2011
 Time: 13:04:53
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA					INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates		Schedule Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	05/2009								
401 GAS	325.00	190.00 M/D	5.00 MOS	EXP X	38.247 9/2009	72.4267	9885.	5779.	
402 "	170.00	X M/D	5.00 EXP	B/1.7 65.00	168.216 12/2020	65.0000	5171.	481.	
403 "	X	X M/D	30.00 YRS	EXP 5.00	236.735 4/2039	5.0000	481.	188.	
500 PRI/GAS	01/2007	5.617 6.487 6.677 5.957 #/M			4/2007				
501 "	X	6.627 6.827 6.197 4.987 #/M			8/2007				
502 "	X	4.587 5.117 6.057 6.497 #/M			12/2007				
503 "	01/2008	6.377 7.277 8.087 8.277 #/M			4/2008				
504 "	X	9.427 9.846 11.356 7.637 #/M			8/2008				
505 "	X	6.427 4.267 2.837 4.627 #/M			12/2008				
506 "	01/2009	4.827 3.107 2.687 2.617 #/M			4/2009				
507 "	X	2.497 2.647 2.977 3.177 #/M			8/2009				
508 "	X	2.467 3.417 4.257 4.277 #/M			12/2009				
509 "	01/2010	5.72 5.31 4.66 3.77 #/M			4/2010				
510 "	X	3.87 3.69 4.28 4.08 #/M			8/2010				
511 "	X	3.47 4.126 5.75 5.75 #/M			12/2010				
512 "	5.75	X \$/M	TO LIFE	PC 0.00	4/2039		5.750	5.750	
600 ATX	4.69	X %	TO LIFE	PC 0.00	4/2039		0.047	0.047	
601 STX/GAS	3.75	X %	TO LIFE	PC 0.00	4/2039		0.037	0.037	
602 OPC/T	335.00	X \$/M	TO LIFE	PC 0.00	4/2039		335.000	335.000	
705 LSE/WI	1.0000	D FRAC	TO LIFE	FLAT 0.00	4/2039		1.000	1.000	
720 NET/OIL	0.8650	D FRAC	TO LIFE	FLAT 0.00	4/2039		0.865	0.865	
740 NET/GAS	0.8650	D FRAC	TO LIFE	FLAT 0.00	4/2039		0.865	0.865	

OVERLAYS	Beginning, Ending Rates		Schedule Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X FRAC	TO LIFE	DIV 146.00	4/2039				
903 S /89	0.49	X FRAC	TO LIFE	MUL 92.00	4/2039				
905 S /89	1.05	X FRAC	TO LIFE	MUL 89.00	4/2039				
907 S /196	S/196	X FRAC	TO LIFE	MINUS 89.00	4/2039				
909 S /88	0.06	X FRAC	TO LIFE	MUL 92.00	4/2039				
911 S /88	1.00	X FRAC	TO LIFE	MINUS 88.00	4/2039				
913 S /196	S/196	X FRAC	TO LIFE	MUL 88.00	4/2039				

914 GAS 01/2009 0 0 0 0 0 8192 8568 5834 0 0 0 0 0 0 # 22.594 3/2010
 915 " X 0 0 1199.56 2088.8 2377.28 1889.76 1709.76 1617.12 # 33.476 11/2010

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77 MSG	05/2009 AD	ESC INV	625.961	5/2009	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.05
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1.99*12.8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 22443 RSV CAT: 1PDP
 Well Name: ROSA UNIT #164C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/28/2011
 TIME : 13:04:53
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

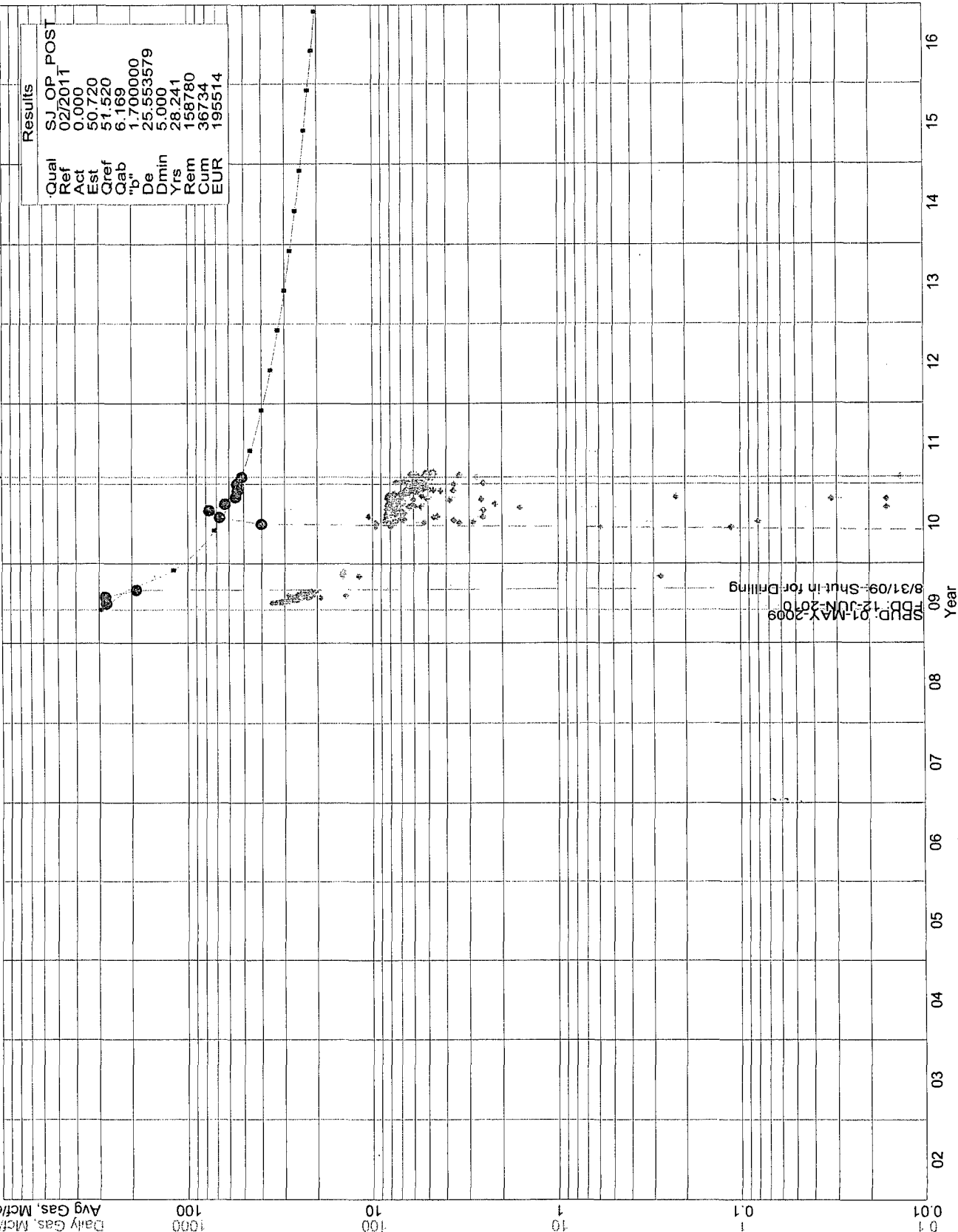
R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000		22.594		0.000		19.544		0.00	2.275	1.0	0.000	44.457	44.457
12-2010	0.000		12.530		0.000		10.838		0.00	3.750	1.0	0.000	40.639	40.639
12-2011	0.000		16.500		0.000		14.272		0.00	5.038	1.0	0.000	71.900	71.900
12-2012	0.000		12.859		0.000		11.123		0.00	5.038	1.0	0.000	56.034	56.034
12-2013	0.000		10.809		0.000		9.350		0.00	5.038	1.0	0.000	47.103	47.103
12-2014	0.000		9.457		0.000		8.180		0.00	5.038	1.0	0.000	41.211	41.211
12-2015	0.000		8.483		0.000		7.338		0.00	5.038	1.0	0.000	36.967	36.967
12-2016	0.000		7.740		0.000		6.695		0.00	5.038	1.0	0.000	33.729	33.729
12-2017	0.000		7.150		0.000		6.185		0.00	5.038	1.0	0.000	31.159	31.159
12-2018	0.000		6.668		0.000		5.768		0.00	5.038	1.0	0.000	29.058	29.058
12-2019	0.000		6.265		0.000		5.419		0.00	5.038	1.0	0.000	27.301	27.301
12-2020	0.000		5.921		0.000		5.122		0.00	5.038	1.0	0.000	25.804	25.804
12-2021	0.000		5.621		0.000		4.862		0.00	5.038	1.0	0.000	24.493	24.493
12-2022	0.000		5.340		0.000		4.619		0.00	5.038	1.0	0.000	23.269	23.269
12-2023	0.000		5.073		0.000		4.388		0.00	5.038	1.0	0.000	22.105	22.105
S TOT	0.000		143.010		0.000		123.704		0.00	4.488	1.0	0.000	555.230	555.230
AFTER	0.000		52.486		0.000		45.400		0.00	5.038	1.0	0.000	228.717	228.717
TOTAL	0.000		195.496		0.000		169.104		0.00	4.636	1.0	0.000	783.947	783.947

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----						8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		0.000		0.000
12-2009	3.675	2.680	0.000	38.102	125.192	500.769	0.000	625.961		-587.859		-517.518
12-2010	3.360	4.020	0.000	33.259	0.000	0.000	0.000	0.000		33.259		-490.775
12-2011	5.944	4.020	0.000	61.936	0.000	0.000	0.000	0.000		61.936		-444.663
12-2012	4.633	4.020	0.000	47.382	0.000	0.000	0.000	0.000		47.382		-412.000
12-2013	3.894	4.020	0.000	39.188	0.000	0.000	0.000	0.000		39.188		-386.985
12-2014	3.407	4.020	0.000	33.784	0.000	0.000	0.000	0.000		33.784		-367.018
12-2015	3.056	4.020	0.000	29.891	0.000	0.000	0.000	0.000		29.891		-350.661
12-2016	2.789	4.020	0.000	26.921	0.000	0.000	0.000	0.000		26.921		-337.020
12-2017	2.576	4.020	0.000	24.563	0.000	0.000	0.000	0.000		24.563		-325.495
12-2018	2.402	4.020	0.000	22.636	0.000	0.000	0.000	0.000		22.636		-315.662
12-2019	2.257	4.020	0.000	21.024	0.000	0.000	0.000	0.000		21.024		-307.205
12-2020	2.133	4.020	0.000	19.651	0.000	0.000	0.000	0.000		19.651		-299.886
12-2021	2.025	4.020	0.000	18.448	0.000	0.000	0.000	0.000		18.448		-293.524
12-2022	1.924	4.020	0.000	17.325	0.000	0.000	0.000	0.000		17.325		-287.992
12-2023	1.828	4.020	0.000	16.258	0.000	0.000	0.000	0.000		16.258		-283.185
S TOT	45.903	58.960	0.000	450.367	125.192	500.769	0.000	625.961		-175.594		-283.185
AFTER	18.909	61.640	0.000	148.168	0.000	0.000	0.000	0.000		148.168		-255.796
TOTAL	64.811	120.600	0.000	598.535	125.192	500.769	0.000	625.961		-27.426		-255.796

SJB_AvgDay_Gas



Results	
Qual	SJ_OP_POST
Ref	02/2011
Act	0.000
Est	50.720
Qref	51.520
Qab	6.169
"b"	1.700000
De	25.553579
Dmin	5.000
Yrs	28.241
Rem	158780
Cum	36734
EUR	195514

ROSA UNIT #164C
BLANCO MV / BASIN MC / BASIN DK

Surface Location:
 1840' FSL and 865' FEL
 NW/4 SE/4 Sec 1 (J), T31N, R06W
 Rio Arriba, NM

Bottom Hole Location:
 204' FSL and 929' FEL
 SW/4 SE/4 Sec 1 (O), T31N, R06W
 Rio Arriba, NM

Elevation: 6358' GR
 API # 30-039-30109

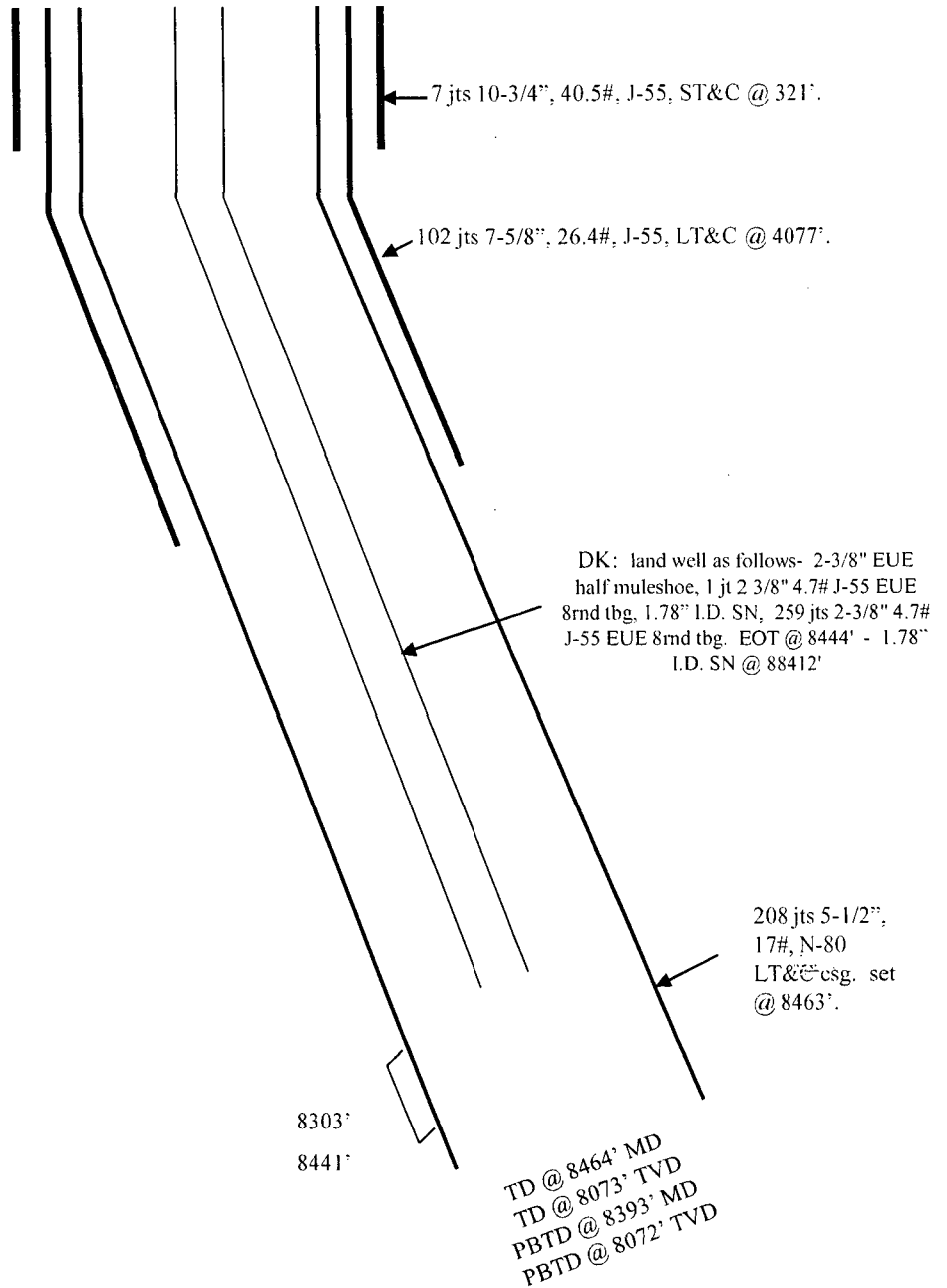
Spud: 05/01/09
 Completed: 06/04/09
 1st Delivery: 0/0/00

Top	MD Depth	TVD Depth
Pictured Cliffs	3583'	3202'
Lewis	3919'	3532'
Cliffhouse Ss.	5803'	5413'
Menefee	5854'	5465'
Point Lookout	6067'	5678'
Mancos	6587'	6192'
Dakota	8303'	7915'

Stimulation:

NOTE: Dakota only completed at this time

Dakota: 8303' - 8441 (90, 0.34" holes)
 Frac with 3,765# 100 mesh BASF
 followed with 111,415# 40/70 mesh
 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	290 sxs	521 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	680 sxs	1698 cu.ft.	Surface
6-3/4"	5-1/2", 17#	335 sxs	468 cu.ft.	5530' CBL

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
NMSF-078772

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

8. FARM OR LEASE NAME, WELL NO
Rosa Unit #164C

9. API WELL NO

30-039-30109-0051

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
Sec 1, T31N, R6W

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

ROTARY TOOLS
x

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
YES

27. WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 1840' FSL & 865' FEL, sec 1, T31N, R6W

At top production interval reported below: 204' FSL & 929' FEL, sec 1, T31N, R6W ✓

At total depth: Same

Bureau of Land Management
Farmington Field Office

JUN 08 2009

15. DATE
SPUDDED
5-1-09

16. DATE T.D.
REACHED
5-15-09

17. DATE COMPLETED (READY TO PRODUCE)
6-4-09

14. PERMIT NO

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC)*
6358' GR

20. TOTAL DEPTH, MD & TVD
8464' MD / 8073' TVD

21. PLUG, BACK T.D., MD & TVD
8457' MD / 8065' TVD

22. IF MULTICOMP,
HOW MANY
3*

23. INTERVALS
DRILLED BY

24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA 8303' - 8441' MD

* Mesaverde and Mancos to be completed at later date

26. TYPE ELECTRIC AND OTHER LOGS RUN

Aray Induction, Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	321'	14-3/4"	290 SX - SURFACE	
7-5/8", J-55	26.4#	4077'	9-7/8"	680 SX - SURFACE	
5-1/2", N-80	17.0#	8463'	6-3/4"	335 SX - 5530' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4 7/8", J-55 EUE 8 1/2"	8444'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota (8303' - 8441') Total of 90, 0 34" holes

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

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

8303'-8441'

Fraced with 3,765# 100 mesh BASF followed with 111,415# 40/70 mesh BASF

REC'D JUN 12 '09

OIL CONS. DIV.

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
6-4-09	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATL		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)
0	1.5 lb				752 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY Weldon Higgins

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

Weldon Higgins

TITLE Drilg COM

DATE 6-8-09

NMOCB

ACCEPTED FOR RECORD

JUN 11 2009

FARMINGTON FIELD OFFICE
BY J. Salazar

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, tube tool open, flowing and shut-in pressures, and recovery rates)

38 GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3583'	3202'
						LEWIS	3919'	3532'
						CLIFFHOUSE	5803'	5413'
						MENEFEE	5854'	5465'
						POINT LOOKOUT	6067'	5678'
						MANCOS	6587'	6192'
						DAKOTA	8303'	7915'

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30109	⁵ Pool Name BASIN DAKOTA NSL-6037	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 164C

II. ¹⁰ Surface Location

UL or lot no. J	Section 1	Township 31N	Range 6W	Lot.Idn	Feet from the 1840	North/South Line SOUTH	Feet from the 865	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. O	Section 1	Township 31N	Range 6W	Lot Idn	Feet from the 204	North/South line SOUTH	Feet from the 929	East/West line EAST	County Rio Arriba
¹² Lse Code J	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD JUN 9 '09

IV. Well Completion Data NOTE: Mesaverde & Mancos to be completed at a later date OIL CONS. DIV.

²¹ Spud Date 5-1-09	²² Ready Date 6-4-09	²³ TD 8464' MD	²⁴ PBDT 8457' MD	²⁵ Perforations 8303' - 8441'	²⁶ DHC, MC DIST. 5
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	321'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	4077'	680 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8463'	335 sx - 5530' (CBL)		
	2.375", 4.7#, J-55	8444'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 6-4-09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1.5 lb
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 752 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			6/12/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>[Signature]</i>		
Title: Dirg COM			Title: DEPUTY OIL & GAS INSPECTOR, DIST. 5		
E-mail Address: larry.higgins@williams.com			Approval Date: JUN 18 2009		
Date: 6-8-09		Phone: 505-634-4208			

BIM appeal

February 24, 2011

The ROSA Unit #181D DAKOTA Formation Well (non-commercial) is located 1230 feet from the North Line and 730 feet from the East Line, Section 15 Township 31 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on October 2, 2009 and completed in the Dakota formation on November 24, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8180' to 8258'. This well has a 2.375" tubing string. This well was shut in with a SICP of 450 psig. On November 22, 2009 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 646 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in cursive script, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #181D | 1PDP | DAKOTA | L86GH8WMPD | 62260951
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 143 X M/D 5 MOS FLAT 0	SJ_OP_POST
" 136 X M/D 5 IMO B/2.0 55	SJ_OP_POST
" 45 X M/D 5 EXP B/1.8 35	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 372.23375 413.17083 M\$G 10/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #181D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 16:35:33
 DBS: SJB
 Settings: SETDATA JCM
 Scenario: SJOB-OP-PostAudit

COMBINED INPUT DATA							INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
400 START	12/2009										
401 GAS	143.00	X	M/D	5.00	MOS	FLAT	0.00	21.747	4/2010	4350.	4350.
402 "	136.00	X	M/D	5.00	IMO	B/2.0	55.00	37.505	9/2010	55.0000	2545.
403 "	45.00	X	M/D	5.00	EXP	B/1.8	35.00	103.628	9/2020	35.0000	1369.
404 "	X	X	M/D	30.00	YRS	EXP	5.00	152.427	11/2039	5.0000	333.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007		
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007		
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007		
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008		
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008		
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008		
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009		
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009		
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009		
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010		
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010		
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010		
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00	11/2039	5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00	11/2039	0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00	11/2039	0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00	11/2039	700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00	11/2039	0.865	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init. Deff	Init. Rate	Final Rate
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00	11/2039			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00	11/2039			
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00	11/2039			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00	11/2039			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00	11/2039			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00	11/2039			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00	11/2039			
914 GAS	01/2009	0	0	0	0	0	0	0	3041.28	4460.16	#
915 "	X	4023.6	4457.04	4087.44	3480.72	2985.84	2845.2	#	29.381	7/2010	
916 "	X	2816.88	1339.67	1519.14	1314.88	#			36.372	11/2010	

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	372.23	413.17 MSG	10/2009 AD	ESC	INV	785.405	10/2009	0	785.4	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #181D
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:35:33
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
10-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
11-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2007		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2008		0.000		0.000		0.000		0.000	0.00	0.000	0.0	0.000	0.000	0.000
12-2009		0.000		3.041		0.000		2.631	0.00	3.419	1.0	0.000	8.996	8.996
12-2010		0.000		34.543		0.000		29.880	0.00	3.658	1.0	0.000	109.293	109.293
12-2011		0.000		11.741		0.000		10.156	0.00	4.778	1.0	0.000	48.526	48.526
12-2012		0.000		8.888		0.000		7.688	0.00	4.778	1.0	0.000	36.734	36.734
12-2013		0.000		7.400		0.000		6.401	0.00	4.778	1.0	0.000	30.585	30.585
12-2014		0.000		6.452		0.000		5.581	0.00	4.778	1.0	0.000	26.666	26.666
12-2015		0.000		5.781		0.000		5.001	0.00	4.778	1.0	0.000	23.894	23.894
12-2016		0.000		5.275		0.000		4.563	0.00	4.778	1.0	0.000	21.803	21.803
12-2017		0.000		4.877		0.000		4.218	0.00	4.778	1.0	0.000	20.157	20.157
12-2018		0.000		4.553		0.000		3.938	0.00	4.778	1.0	0.000	18.817	18.817
12-2019		0.000		4.282		0.000		3.704	0.00	4.778	1.0	0.000	17.700	17.700
12-2020		0.000		4.053		0.000		3.506	0.00	4.778	1.0	0.000	16.751	16.751
12-2021		0.000		3.849		0.000		3.329	0.00	4.778	1.0	0.000	15.908	15.908
12-2022		0.000		3.656		0.000		3.163	0.00	4.778	1.0	0.000	15.113	15.113
12-2023		0.000		3.474		0.000		3.005	0.00	4.778	1.0 /	0.000	14.357	14.357
S TOT		0.000		111.864		0.000		96.763	0.00	4.395	1.0	0.000	425.299	425.299
AFTER		0.000		22.772		0.000		19.698	0.00	4.778	1.0	0.000	94.120	94.120
TOTAL		0.000		134.636		0.000		116.461	0.00	4.460	1.0	0.000	519.420	519.420

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	0.744	0.700	0.000	7.552	372.234	413.171	0.000	785.405	-777.853	-662.495
12-2010	9.036	8.400	0.000	91.858	0.000	0.000	0.000	0.000	91.858	-588.634
12-2011	4.012	8.400	0.000	36.114	0.000	0.000	0.000	0.000	36.114	-561.746
12-2012	3.037	8.400	0.000	25.297	0.000	0.000	0.000	0.000	25.297	-544.307
12-2013	2.529	8.400	0.000	19.657	0.000	0.000	0.000	0.000	19.657	-531.760
12-2014	2.205	8.400	0.000	16.061	0.000	0.000	0.000	0.000	16.061	-522.268
12-2015	1.975	8.400	0.000	13.518	0.000	0.000	0.000	0.000	13.518	-514.870
12-2016	1.803	8.400	0.000	11.601	0.000	0.000	0.000	0.000	11.601	-508.992
12-2017	1.666	8.400	0.000	10.090	0.000	0.000	0.000	0.000	10.090	-504.258
12-2018	1.556	8.400	0.000	8.861	0.000	0.000	0.000	0.000	8.861	-500.408
12-2019	1.463	8.400	0.000	7.837	0.000	0.000	0.000	0.000	7.837	-497.256
12-2020	1.385	8.400	0.000	6.966	0.000	0.000	0.000	0.000	6.966	-494.662
12-2021	1.315	8.400	0.000	6.193	0.000	0.000	0.000	0.000	6.193	-492.526
12-2022	1.249	8.400	0.000	5.463	0.000	0.000	0.000	0.000	5.463	-490.781
12-2023	1.187	8.400	0.000	4.770	0.000	0.000	0.000	0.000	4.770	-489.371
S TOT	35.161	118.300	0.000	271.839	372.234	413.171	0.000	785.405	-513.566	-489.371
AFTER	7.781	69.300	0.000	17.039	0.000	0.000	0.000	0.000	17.039	-485.384
TOTAL	42.942	187.600	0.000	288.878	372.234	413.171	0.000	785.405	-496.527	-485.384

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #181D
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:35:33
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSE	PAID & CAP	INCOME	CREDIT	PAYABLE	ATA	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	7.552	5.910	0.000	413.171	0.000	-411.529	0.000	-144.035	-633.818	-537.414
12-2010	91.858	77.669	0.000	0.000	0.000	14.189	0.000	4.966	86.892	-467.546
12-2011	36.114	82.475	0.000	0.000	0.000	-46.360	0.000	-16.226	52.340	-428.578
12-2012	25.297	58.900	0.000	0.000	0.000	-33.603	0.000	-11.761	37.058	-403.031
12-2013	19.657	42.075	0.000	0.000	0.000	-22.418	0.000	-7.846	27.503	-385.476
12-2014	16.061	33.228	0.000	0.000	0.000	-17.167	0.000	-6.008	22.070	-372.432
12-2015	13.518	33.216	0.000	0.000	0.000	-19.697	0.000	-6.894	20.412	-361.262
12-2016	11.601	33.228	0.000	0.000	0.000	-21.627	0.000	-7.570	19.170	-351.548
12-2017	10.090	5.534	0.000	0.000	0.000	4.556	0.000	1.595	8.495	-347.562
12-2018	8.861	0.000	0.000	0.000	0.000	8.861	0.000	3.101	5.760	-345.060
12-2019	7.837	0.000	0.000	0.000	0.000	7.837	0.000	2.743	5.094	-343.011
12-2020	6.966	0.000	0.000	0.000	0.000	6.966	0.000	2.438	4.528	-341.324
12-2021	6.193	0.000	0.000	0.000	0.000	6.193	0.000	2.168	4.025	-339.936
12-2022	5.463	0.000	0.000	0.000	0.000	5.463	0.000	1.912	3.551	-338.802
12-2023	4.770	0.000	0.000	0.000	0.000	4.770	0.000	1.670	3.101	-337.886
S TOT	271.839	372.234	0.000	413.171	0.000	-513.566	0.000	-179.748	-333.818	-337.886
AFTER	17.039	0.000	0.000	0.000	0.000	17.039	0.000	5.964	11.075	-335.294
TOTAL	288.878	372.234	0.000	413.171	0.000	-496.527	0.000	-173.784	-322.743	-335.294

BTAX RATE OF RETURN (PCT)	0.00	ATA RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	24.58	ATA PAY OUT YEARS	24.58
BTAX PAYOUT YEARS (DISC)	24.58	ATA PAY OUT YEARS (DISC)	24.58
BTAX NET INCOME/INVEST	0.37	ATA NET INCOME/INVEST	0.59
BTAX NET INCOME/INVEST (DISC)	0.27	ATA NET INCOME/INVEST (DISC)	0.50

PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	24.58
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.419
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.778
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.

CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	134.636
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	134.636

INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-496.5	-322.7	-496.5
2.00	-499.2	-331.0	-470.1
5.00	-495.2	-336.1	-440.8
8.00	-485.4	-335.3	-417.3
10.00	-476.9	-332.6	-403.4
12.00	-467.4	-328.7	-390.5
15.00	-452.0	-321.3	-372.4
18.00	-436.1	-312.7	-355.6
20.00	-425.4	-306.6	-345.0
25.00	-399.0	-290.5	-320.3
30.00	-373.9	-274.3	-297.8
35.00	-350.2	-258.5	-277.4
40.00	-328.3	-243.4	-258.8
45.00	-308.0	-229.2	-241.8
50.00	-289.4	-215.9	-226.4

SJB_AvgDay_Gas

Avg Gas, Mcf/day

1000

100

10

1

0.1

02

03

04

05

06

07

08

09

10

11

12

13

14

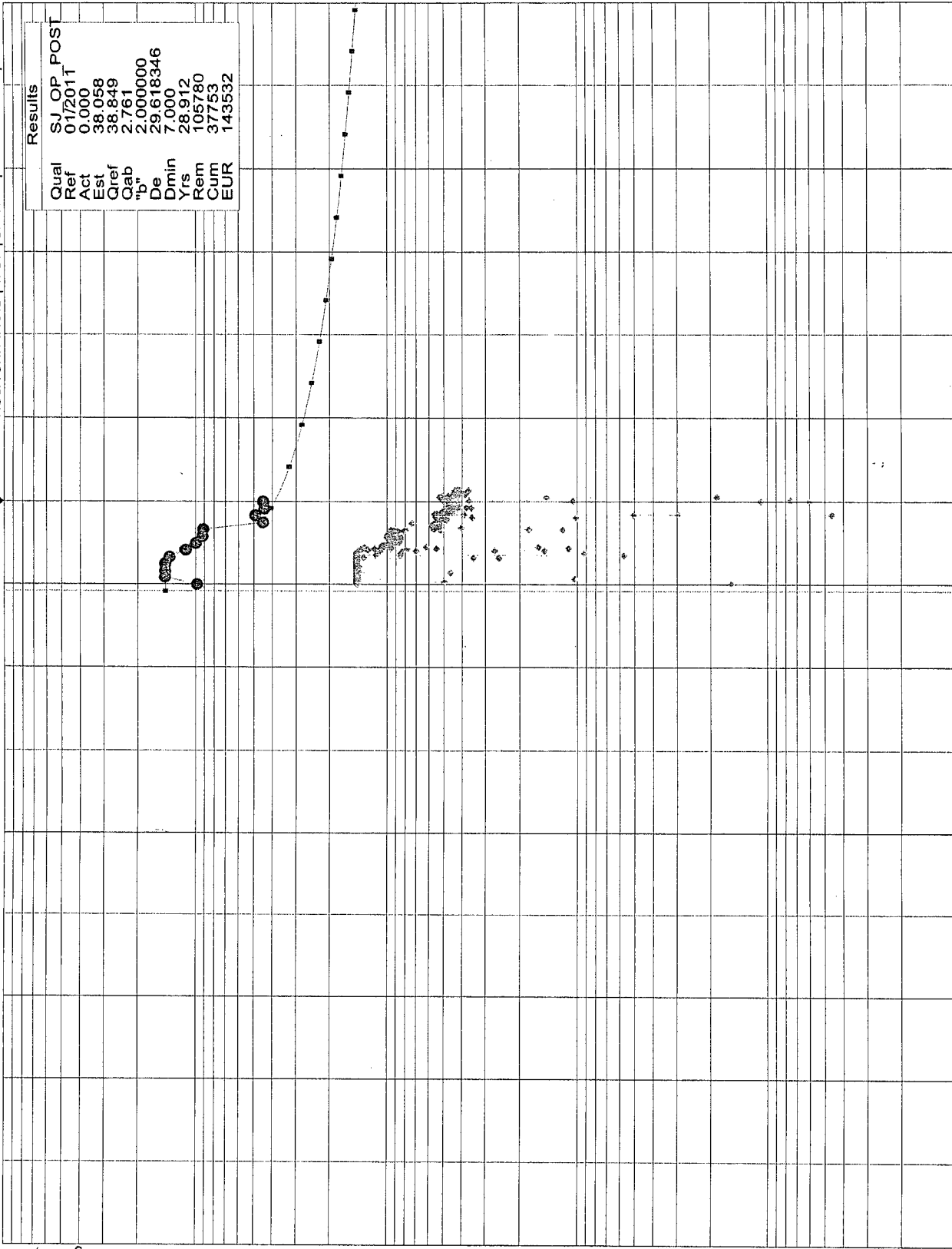
15

16

Year

ROSA UNIT #181D | 1PDP | DAKOTA | L86GH8WMPD | 62260951

Results	
Qual	SJ OP POST
Ref	01/2011
Act	0.000
Est	38.058
Qref	38.849
Qab	2.761
"b"	2.000000
De	29.618346
Dmin	7.000
Yrs	28.912
Rem	105780
Cum	37753
EUR	143532



ROSA UNIT #181D

BLANCO MV / BASIN MC / BASIN DK

Spud: 10/02/09

Completed: 11/24/09

1st Delivery: 12/09/09

Surface Location:

1230' FNL and 730' FEL

NE/4 NE/4 Sec 15(A), T31N, R06W

Rio Arriba, NM

Bottom Hole Location:

284' FSL and 1487' FEL

SW/4 SE/4 Sec 10(O), T31N, R06W

Rio Arriba, NM

Elevation: 6268' GR

API # 30-039-30795

Top	MD Depth	TVD Depth
Lewis	3833'	3446'
Cliffhouse Ss.	5686'	5291'
Point Lookout	5960'	5564'
Mancos	6457'	6061'
Graneros	8054'	7658'
Dakota	8179'	7783'

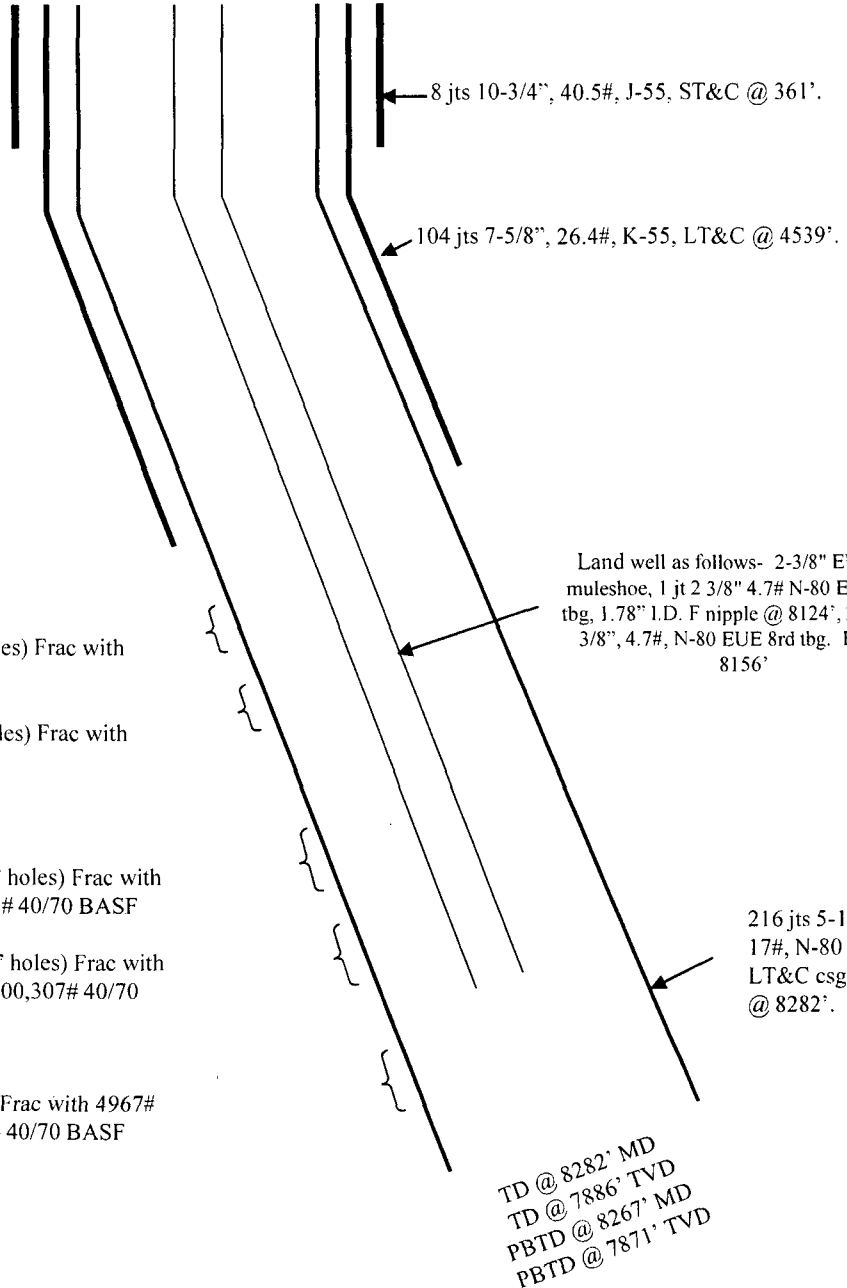
Upper MV: 5658'-5874' (47, 0.34" holes) Frac with 100,822# 20/40 mesh BASF

Lower MV: 5976'-6339' (54, 0.34" holes) Frac with 86,461# 20/40 mesh BASF

Upper Mancos: 7110'-7340' (72, 0.34" holes) Frac with 5004# 100 mesh followed with 126,807# 40/70 BASF

Lower Mancos: 7371'-7544' (63, 0.34" holes) Frac with 4910# 100 mesh BASF followed with 100,307# 40/70 BASF

Dakota: 8180'-8258' (72, 0.34" holes) Frac with 4967# 100 mesh BASF followed with 88,323# 40/70 BASF



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	305 sxs	527 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	631 sxs	1568 cu.ft.	Surface
6-3/4"	5-1/2", 17#	555 sxs	777 cu.ft.	950' CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30795	⁵ Pool Name BASIN DAKOTA (NSL-6096)	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 181D <i>W</i>

II. ¹⁰ Surface Location

UI or lot no. A	Section 15	Township 31N	Range 6W	Lot. Idn	Feet from the 1230	North/South Line NORTH	Feet from the 730	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no. O	Section 10	Township 31N	Range 6W	Lot Idn	Feet from the 284	North/South line SOUTH	Feet from the 1487	East/West line EAST	County Rio Arriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	²⁰ O/G/W O
009018		
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCVD NOV 30 '09

IV. Well Completion Data Commingled with Mesaverde and Mancos

OIL CONS. DIV.
DIST. 3

²¹ Spud Date 10-2-09	²² Ready Date 11-24-09	²³ TD 8282' MD	²⁴ PBD 8267' MD	²⁵ Perforations 8180' - 8258'	²⁶ DHC, MC AZT-3280
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 361'	³⁰ Sacks Cement 305 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	4539'	631 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8282'	555 sx - 950' (CBL)		
	2.375", 4.7#, N-80	8156'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 11-22-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 450lbs
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 646 mcf/d		⁴¹ Test Method Choke

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:
Larrh Higgins

Title:
Drilling COM

E-mail Address:
Larry.higgins@williams.com

Date:
11/25/09

Phone:
505-634-4208

11-30-09 OIL CONSERVATION DIVISION

Approved by:

Title: SUPERVISOR DISTRICT # 3

Approval Date: DEC 01 2009

h

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. 30-039-30795		2. Type of Lease ☐ STATE ☒ FEE ☐ FED/INDIAN	
		3. State Oil & Gas Lease No.			
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 #181D	
7. Type of Completion: X NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER				DIST. 3	
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 Dakota	
12. Location	Unit Ltr	Section	Township	Range	Lot
Surface:	A	15	31N	6W	
BH:	O	10	31N	6W	
13. Date Spudded 10-2-09		14. Date T.D. Reached 10-16-09		15. Date Rig Released 10-19-09	
				16. Date Completed (Ready to Produce) 11-24-09	
18. Total Measured Depth of Well 8282'		19. Plug Back Measured Depth 8267' MD		20. Was Directional Survey Made? YES	
				21. Type Electric and Other Logs Run Array Induction, Compensated GR-Density-Neutron, Temp, Ultra Sonic Gas Detector, CBL	
22. Producing Interval(s), of this completion - Top, Bottom, Name BASIN DAKOTA: 8180'-8258'					
23 CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB /FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4"	40.5#	361'	14-3/4"	305 sxs - surface	
7-5/8"	26.4#	4539'	9-7/8"	631 sxs - surface	
5-1/2"	17#	8282'	6-3/4"	555 sxs - 950' cbl	
24. LINER RECORD			25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE
					2.375", 4 7#, N-80
			DEPTH SET		
			8156'		
			PACKER SET		
			No		
26. Perforation record (interval, size, and number) Basin Dakota: Total of 72, 0.34" holes				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL	
				AMOUNT AND KIND MATERIAL USED	
				8180'-8258'	
				4967# 100 mesh & 88,323# 40/70 mesh	
28. Commingled with Mesaverde and Mancos per AZT-3280 PRODUCTION					
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump) Commingled with Mancos & Mesaverde per AZT-3228		Well Status (Prod. or Shut-in) Waiting on tie in	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF
11-22-09	2	1/2"			
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl
0	450 lb	646 mcf/d			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) vented					30. Test Witnessed By Serjio Borunda
31. List Attachments					
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: Drilling COM Date: 11/25/09

E-mail Address: larry.higgins@williams.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo 2537'	T. Penn A"
T. Salt	T. Strawn	T. Kirtland 2690'	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland 3145'	T. Penn. "C"
T. Yates	T. Miss	T. Lewis 3833'	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House 5686'	T. Leadville
T. Queen	T. Silurian	T. Menefee 5730'	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout 5960'	T. Elbert
T. San Andres	T. Simpson	T. Mancos 6457'	T. McCracken
T. Glorieta	T. McKee	T. Gallup 6844'	T. Ignacio Otzte
T. Paddock	T. Ellenburger	T. Graneros 8054'	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota 8179'	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....

No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology	From	To	Thickness In Feet	Lithology

February 28, 2011

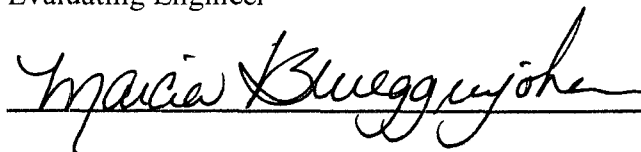
The ROSA Unit #183C DAKOTA Formation Well (non-commercial) is located 2330 feet from the North Line and 305 feet from the East Line, Section 19 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on August 24, 2009 and completed in the Dakota formation on October 29, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 7880' to 8002'. This well has a 2.375" tubing string. This well was shut in with a SICP of 450 psig. On June 25, 2008 the well was tested and after flowing for 2 hours through a 1/2" choke on the 2.375" tubing, the well gauged 647 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #183C | 1PDP | DAKOTA | J87J283REW | 62246190
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE
<u>LOSS NO</u>	

Production

CUMS 0 0	SJ_OP_POST
START 12/2009	SJ_OP_POST
GAS 146 153 M/D 5 MOS EXP X	SJ_OP_POST
" 92 X M/D 5 EXP B/1.8 43	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 252.30267 338.28899 M\$G 08/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 26319 RSV CAT: 1PDP
 Well Name: ROSA UNIT #183C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/23/2011
 Time: 16:21:12
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA INITIAL CALCULATED DATA

KEYWORD & Ref. Code	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate

400 START	12/2009						
401 GAS	146.00 153.00 M/D	5.00 MOS	EXP X	22.732 4/2010	-11.8954	4441.	4654.
402 "	92.00 X M/D	5.00 EXP	B/1.8 43.00	139.102 7/2020	43.0000	2798.	546.
403 "	X X M/D	30.00 YRS	EXP 5.00	219.454 11/2039	5.0000	546.	203.

500 PRI/GAS	01/2007 5.617 6.487 6.677 5.957 #/M						
501 "	X 6.627 6.827 6.197 4.987 #/M						
502 "	X 4.587 5.117 6.057 6.497 #/M						
503 "	01/2008 6.377 7.277 8.087 8.277 #/M						
504 "	X 9.427 9.846 11.356 7.637 #/M						
505 "	X 6.427 4.267 2.837 4.627 #/M						
506 "	01/2009 4.827 3.107 2.687 2.617 #/M						
507 "	X 2.497 2.647 2.977 3.177 #/M						
508 "	X 2.467 3.417 4.257 4.277 #/M						
509 "	01/2010 5.72 5.31 4.66 3.77 #/M						
510 "	X 3.87 3.69 4.28 4.08 #/M						
511 "	X 3.47 4.126 5.75 5.75 #/M						
512 "	5.75 X \$/M	TO LIFE	PC 0.00	11/2039		5.750	5.750
600 ATX	4.69 X %	TO LIFE	PC 0.00	11/2039		0.047	0.047
601 STX/GAS	3.75 X %	TO LIFE	PC 0.00	11/2039		0.037	0.037
602 OPC/T	700.00 X \$/M	TO LIFE	PC 0.00	11/2039		700.000	700.000
705 LSE/WI	1.0000 D FRAC	TO LIFE	FLAT 0.00	11/2039		1.000	1.000
720 NET/OIL	0.8650 D FRAC	TO LIFE	FLAT 0.00	11/2039		0.865	0.865
740 NET/GAS	0.8650 D FRAC	TO LIFE	FLAT 0.00	11/2039		0.865	0.865

OVERLAYS Beginning, Ending Rates Schedule Limit Method & Value Ultimate @ End Pt. Init.Deff Init. Rate Final Rate

901 S 92	S/95 X FRAC	TO LIFE	DIV 146.00	11/2039			
903 S /89	0.49 X FRAC	TO LIFE	MUL 92.00	11/2039			
905 S /89	0.99 X FRAC	TO LIFE	MUL 89.00	11/2039			
907 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00	11/2039			
909 S /88	0.06 X FRAC	TO LIFE	MUL 92.00	11/2039			
911 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00	11/2039			
913 S /196	S/196 X FRAC	TO LIFE	MUL 88.00	11/2039			
914 GAS	01/2009 0 0 0 0 0 0 0 0 0 0 3455.28 4530 4426.8 #			12.412 1/2010			
915 "	X 4318.08 4765.92 3588 2864.88 2742.25 2123.2 2509.6 #			35.324 8/2010			
916 "	X 2023.8 1823.6 1513.6 #			40.685 11/2010			

INVESTMENTS	Tangible Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	252.30 338.29 M\$G	08/2009 AD	ESC INV	590.592	8/2009	0	590.5	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	0.99			
202 WELLS	0.00	1.00		
203 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB
250 LOSS	NO			

PROJECT RUN SETTINGS

Base Date	: 09/2007	Time Frames	: 4*1,99*12,8
P.W. Date	: 09/2007	Primary PW%	: 8.0 Discount Freq. : MID
Report Date	: 09/2007		
Qualifiers	: Prod = SJ_OP_POST	Price = SJ_OP_POST	Cost = SJ_OP_POST Owner = BASE
	Title = BASE	Misc = BASE	Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 26319 RSV CAT: 1PDP
 Well Name: ROSA UNIT #183C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/23/2011
 TIME : 16:21:12
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	----GROSS PRODUCTION----				----NET PRODUCTION----				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL, MBBL	GAS, MMCF			OIL, MBBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	7.985			0.000	3.918			0.00	3.409	1.0	0.000	13.358	13.358
12-2010	0.000	34.556			0.000	29.891			0.00	3.692	1.0	0.000	110.364	110.364
12-2011	0.000	18.322			0.000	15.849			0.00	4.763	1.0	0.000	75.496	75.496
12-2012	0.000	14.128			0.000	12.221			0.00	4.763	1.0	0.000	58.214	58.214
12-2013	0.000	11.857			0.000	10.256			0.00	4.763	1.0	0.000	48.856	48.856
12-2014	0.000	10.384			0.000	8.982			0.00	4.763	1.0	0.000	42.785	42.785
12-2015	0.000	9.331			0.000	8.071			0.00	4.763	1.0	0.000	38.447	38.447
12-2016	0.000	8.532			0.000	7.380			0.00	4.763	1.0	0.000	35.154	35.154
12-2017	0.000	7.899			0.000	6.832			0.00	4.763	1.0	0.000	32.546	32.546
12-2018	0.000	7.382			0.000	6.386			0.00	4.763	1.0	0.000	30.417	30.417
12-2019	0.000	6.950			0.000	6.012			0.00	4.763	1.0	0.000	28.638	28.638
12-2020	0.000	6.582			0.000	5.693			0.00	4.763	1.0	0.000	27.121	27.121
12-2021	0.000	6.252			0.000	5.408			0.00	4.763	1.0	0.000	25.760	25.760
12-2022	0.000	5.939			0.000	5.137			0.00	4.763	1.0	0.000	24.472	24.472
12-2023	0.000	5.642			0.000	4.881			0.00	4.763	1.0	0.000	23.249	23.249
S TOT	0.000	161.742			0.000	136.918			0.00	4.491	1.0	0.000	614.878	614.878
AFTER	0.000	59.818			0.000	51.743			0.00	4.763	1.0	0.000	246.477	246.477
TOTAL	0.000	221.560			0.000	188.660			0.00	4.566	1.0	0.000	861.354	861.354

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW	TOTAL EQUITY	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	1.104	0.700	0.000	11.553	252.303	338.289	0.000	590.592	-579.038	-499.562		
12-2010	9.124	8.400	0.000	92.840	0.000	0.000	0.000	0.000	92.840	-424.911		
12-2011	6.241	8.400	0.000	60.854	0.000	0.000	0.000	0.000	60.854	-379.604		
12-2012	4.813	8.400	0.000	45.001	0.000	0.000	0.000	0.000	45.001	-348.582		
12-2013	4.039	8.400	0.000	36.417	0.000	0.000	0.000	0.000	36.417	-325.336		
12-2014	3.537	8.400	0.000	30.848	0.000	0.000	0.000	0.000	30.848	-307.104		
12-2015	3.179	8.400	0.000	26.869	0.000	0.000	0.000	0.000	26.869	-292.400		
12-2016	2.906	8.400	0.000	23.848	0.000	0.000	0.000	0.000	23.848	-280.317		
12-2017	2.691	8.400	0.000	21.456	0.000	0.000	0.000	0.000	21.456	-270.250		
12-2018	2.515	8.400	0.000	19.503	0.000	0.000	0.000	0.000	19.503	-261.778		
12-2019	2.368	8.400	0.000	17.870	0.000	0.000	0.000	0.000	17.870	-254.590		
12-2020	2.242	8.400	0.000	16.479	0.000	0.000	0.000	0.000	16.479	-248.452		
12-2021	2.130	8.400	0.000	15.231	0.000	0.000	0.000	0.000	15.231	-243.200		
12-2022	2.023	8.400	0.000	14.049	0.000	0.000	0.000	0.000	14.049	-238.714		
12-2023	1.922	8.400	0.000	12.927	0.000	0.000	0.000	0.000	12.927	-234.892		
S TOT	50.834	118.300	0.000	445.744	252.303	338.289	0.000	590.592	-144.848	-234.892		
AFTER	20.377	133.700	0.000	92.400	0.000	0.000	0.000	0.000	92.400	-216.722		
TOTAL	71.211	252.000	0.000	538.144	252.303	338.289	0.000	590.592	-52.448	-216.722		

PropID: 26319 RSV CAT: 1PDP
 Well Name: ROSA UNIT #183C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

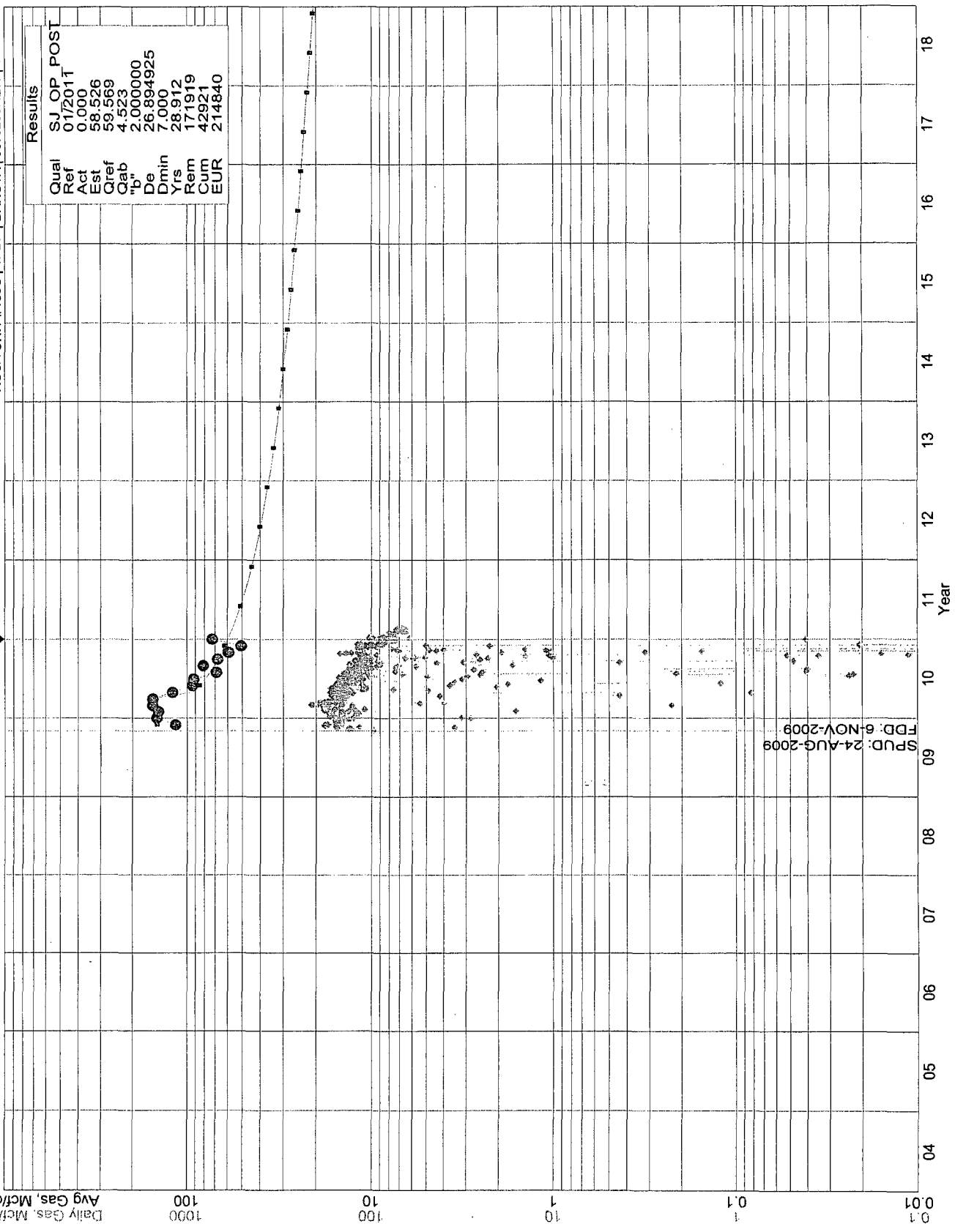
DATE : 02/23/2011
 TIME : 16:21:12
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION		EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	11.553	4.006	0.000	338.289	0.000	-330.742	0.000	-115.760	-463.279	-399.036
12-2010	92.840	52.644	0.000	0.000	0.000	40.196	0.000	14.069	78.772	-335.697
12-2011	60.854	55.902	0.000	0.000	0.000	4.952	0.000	1.733	59.121	-291.680
12-2012	45.001	39.923	0.000	0.000	0.000	5.078	0.000	1.777	43.223	-261.883
12-2013	36.417	28.519	0.000	0.000	0.000	7.899	0.000	2.765	33.653	-240.403
12-2014	30.848	22.522	0.000	0.000	0.000	8.326	0.000	2.914	27.934	-223.893
12-2015	26.869	22.514	0.000	0.000	0.000	4.355	0.000	1.524	25.345	-210.023
12-2016	23.848	22.522	0.000	0.000	0.000	1.325	0.000	0.464	23.384	-198.174
12-2017	21.456	3.751	0.000	0.000	0.000	17.705	0.000	6.197	15.259	-191.015
12-2018	19.503	0.000	0.000	0.000	0.000	19.503	0.000	6.826	12.677	-185.508
12-2019	17.870	0.000	0.000	0.000	0.000	17.870	0.000	6.255	11.616	-180.836
12-2020	16.479	0.000	0.000	0.000	0.000	16.479	0.000	5.768	10.711	-176.847
12-2021	15.231	0.000	0.000	0.000	0.000	15.231	0.000	5.331	9.900	-173.433
12-2022	14.049	0.000	0.000	0.000	0.000	14.049	0.000	4.917	9.132	-170.517
12-2023	12.927	0.000	0.000	0.000	0.000	12.927	0.000	4.524	8.402	-168.033
S TOT	445.744	252.303	0.000	338.289	0.000	-144.848	0.000	-50.697	-94.151	-168.033
AFTER	92.400	0.000	0.000	0.000	0.000	92.400	0.000	32.340	60.060	-156.222
TOTAL	538.144	252.303	0.000	338.289	0.000	-52.448	0.000	-18.357	-34.091	-156.222
BTAX RATE OF RETURN (PCT)	0.00	ATAW RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND						
BTAX PAYOUT YEARS	32.25	ATAW PAY OUT YEARS	32.25	---- RATE-OF-RETURN VS. BONUS TABLE ----						
BTAX PAYOUT YEARS (DISC)	32.25	ATAW PAY OUT YEARS (DISC)	32.25	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.			
BTAX NET INCOME/INVEST	0.91	ATAW NET INCOME/INVEST	0.94	FACTOR	WORTH	WORTH	BONUS			
BTAX NET INCOME/INVEST(DISC)	0.57	ATAW NET INCOME/INVEST(DISC)	0.69	%-----	M\$-----	M\$-----	M\$-----			
PRODUCTION START DATE	12/2009	PROJECT LIFE (YEARS)	32.25	0.00	-52.4	-34.1	-52.4			
		DISCOUNT - RATE (PCT)	8.00	2.00	-117.8	-81.6	-113.6			
				5.00	-180.3	-128.1	-163.2			
				8.00	-216.7	-156.2	-188.5			
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.226	10.00	-232.0	-168.5	-198.2			
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.763	12.00	-242.4	-177.1	-204.3			
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.	15.00	-251.6	-185.3	-209.0			
				18.00	-255.6	-189.4	-210.0			
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-3.455	20.00	-256.2	-190.6	-209.4			
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	221.560	25.00	-253.3	-190.0	-205.0			
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	218.104	30.00	-246.7	-186.1	-198.3			
				35.00	-238.1	-180.5	-190.5			
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000	40.00	-228.6	-174.0	-182.3			
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000	45.00	-218.9	-167.1	-174.0			
INITIAL NET GAS (PCT)	113.405	FINAL NET GAS (PCT)	86.500	50.00	-209.2	-160.1	-165.9			

SJB_AvgDay_Gas



Results	
Qual	SJ_OP_POST
Ref	01/2011
Act	0.000
Est	58.526
Qref	59.569
Qab	4.523
"b"	2.000000
De	26.894925
Dmin	7.000
Yrs	28.912
Rem	17.1919
Cum	42921
EUR	214840

ROSA UNIT #183C
BLANCO MV/BASIN MANCOS/BASIN DK

Spud Date 8-24-09
 Completed 10-29-09
 1st Delivered 11-6-09

Location: 2330' FNL & 305' FEL
 SE/4 NE/4 Section 19 (H), T31N, R05W
 Rio Arriba Co., NM

Elevation: 6327' GR
API #: 30-039-30764

<u>Tops</u>	<u>Depth</u>
Lewis	3590'
Cliff House	5390'
Point Lookout	5646'
Mancos	6114'
Graneros	7747'
Dakota	7881'

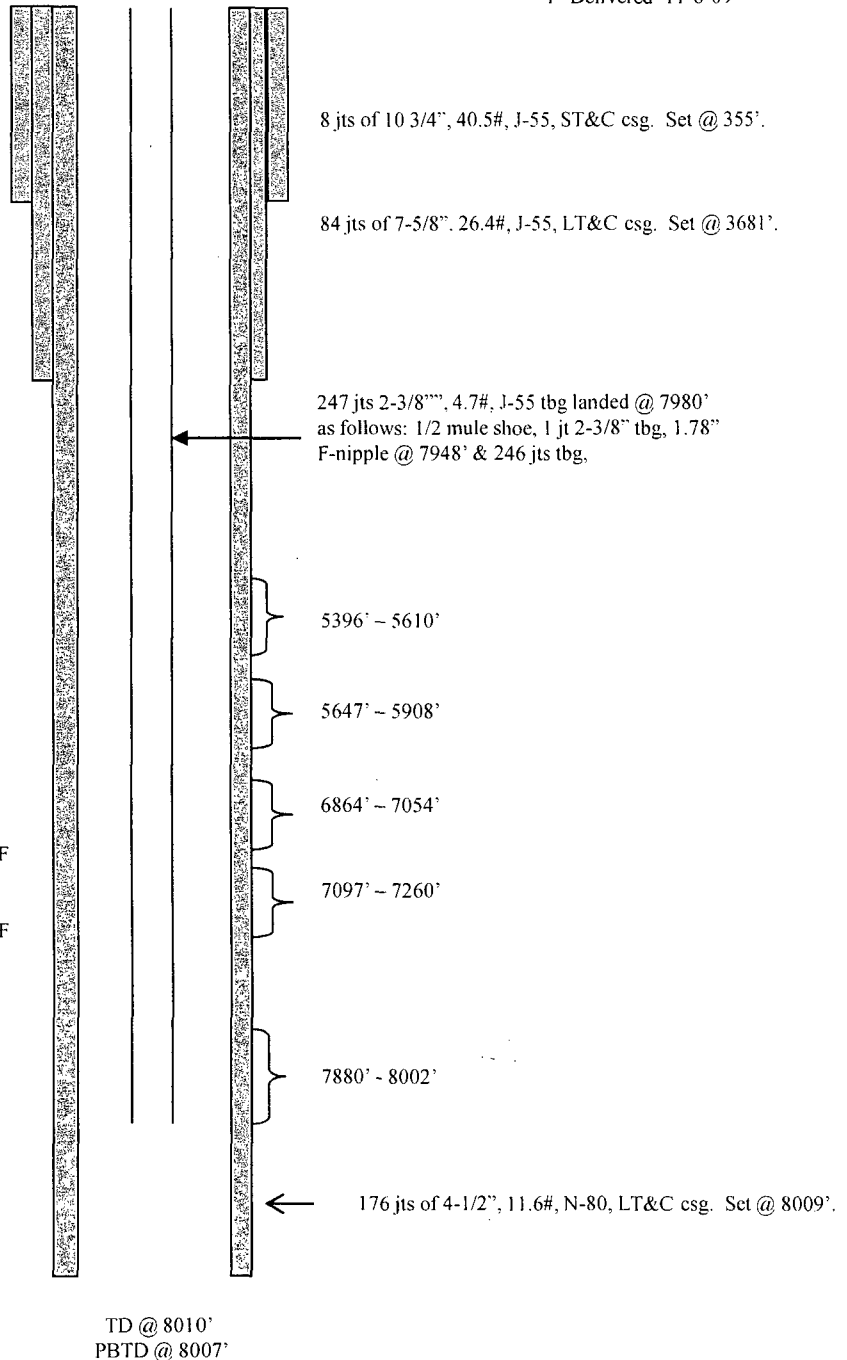
UPPR MESAVERDE: 5396' - 5610' (49, 0.34" holes)
 Frac with 79,672# 20/40 BASF

LWR MESAVERDE: 5647' - 5908' (62, 0.34" holes)
 Frac with 82,526# 20/40 BASF

UPPR MANCOS: 6864' - 7054' (60, .034" holes) Frac w/
 5029# 100 mesh BASF followed with 99,520# 40/70 BASF

LWR MANCOS: 7097' - 7260' (63, .034" holes) Frac w/
 5048# 100 mesh BASF followed with 96,357# 40/70 BASF

Dakota: 7880' - 8002' (66, 0.34" holes) Frac w/ 5003#
 100 mesh followed with 118,675# 40/70 mesh BASF



<i>HOLE SIZE</i>	<i>CASING</i>	<i>CEMENT</i>	<i>CU. FT.</i>	<i>CMT TOP</i>
14 3/4"	10 3/4", 40.5#	290 sxs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	570 sxs	1401 cu.ft.	surface
6 3/4"	4 1/2", 11.6#	580 sxs	812 cu.ft.	3085' - CBL

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

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078764

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

Need CA

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #183C

9. API WELL NO.

30-039-30764-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
Sec 19, T31N, R5W

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

ROTARY TOOLS
x

CABLE TOOLS

25. WAS DIRECTIONAL SURVEY MADE
No

27. WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

3. ADDRESS AND TELEPHONE NO.

P.O. Box 640, Aztec, NM 87410 (505) 634-4208

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At Surface: 2330' FNL & 305' FEL, sec 19, T31N, R5W

At top production interval reported below: Same

At total depth: Same

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, OR, ETC.)*

6327' GR

15. DATE
SPUDDED
8-24-09

16. DATE T.D.
REACHED
9-2-09

17. DATE COMPLETED (READY TO PRODUCE)
10-29-09

20. TOTAL DEPTH, MD & TVD
8010'

21. PLUG, BACK T.D., MD & TVD
8007' MD

22. IF MULTICOMP.,
HOW MANY
3*

23. INTERVALS
DRILLED BY

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BASIN DAKOTA: 7880'-8002' MD

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated GR-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	355'	14-3/4"	290 SX - SURFACE	
7-5/8", J-55	26.4#	3681'	9-7/8"	570 SX - SURFACE	
4-1/2", N-80	11.6#	8007' 8009'	6-3/4"	580 SX - 3085' (CBL)	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55, EUE 8rd	7980'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 66, 0.34" holes

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

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

7880' - 8002'

Fracced with 5003# 100 mesh BASF followed with 118.675# 40/70 mesh BASF

33. PRODUCTION NOTE: commingled with Mesaverde and Mancos per AZT 3248

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
10-28	2 hr	1/2"					
FLOW TRG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)
0	450 lb.				647 mcf/d		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): TO BE SOLD

TEST WITNESSED BY: Weldon Higgins

35. LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

ACCEPTED FOR RECORD

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

SIGNED

Larry Higgins

TITLE: Drilling COM.

OPERATOR

DATE 10-30-09

10-30-09

PARAMOUNT FIELD OFFICE

J. Salinas

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	TOP		
					NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
					LEWIS	3590'	
					CLIFFHOUSE	5390'	
					POINT LOOKOUT	5646'	
					MANCOS	6114'	
					GRANEROS	7747'	
					DAKOTA	7881'	

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30764	⁵ Pool Name BASIN DAKOTA - NSL 6012	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 183C

II. ¹⁰ Surface Location

UL or lot no. H	Section 19	Township 31N	Range 5W	Lot Idn	Feet from the 2330	North/South Line NORTH	Feet from the 305	East/West line EAST	County RIO ARriba

¹¹ Bottom Hole Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
RCVD OCT 30 '09		

OIL CONSV. DIV.

IV. Well Completion Data NOTE: To be commingled with Mesa Verde and Mancos DIST. 3

²¹ Spud Date 8/24/09	²² Ready Date 10-29-09	²³ TD 8010' MD	²⁴ PBDT 8007' MD	²⁵ Perforations 7880' - 8002'	²⁶ DHC, MC AZT-3248
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
14-3/4"	10-3/4", 40.5#, J J-55	355'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	3681'	570 sx - surface		
6-3/4"	4 1/2", 11.6#, N-80	8007'	580 sx - 3085' (CBL)		
	2.375", 4.7#, J-55	7980'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 10-28-09	³⁴ Test Length 2 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 450 psi
³⁷ Choke Size 1/2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 647 mcf/d		⁴¹ Test Method Choke
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			11/9/09 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>[Signature]</i>		
Title: Drilling COM			Title: DEPUTY OIL & GAS INSPECTOR, DIST. 3		
E-mail Address: Larry.higgins@williams.com			Approval Date: NOV 10 2009		
Date: 10-30-09		Phone: 505-634-4208			

70

March 1, 2011

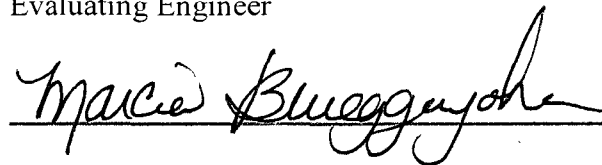
The ROSA Unit #187C DAKOTA Formation Well (non-commercial) is located 1090 feet from the South Line and 1145 feet from the West Line, Section 21 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 20, 2008 and completed in the Dakota formation on September 18, 2008. The Dakota formation was completed with a pre-perforated liner between the following depths: 8414' to 8522'. This well has a 2.875" tubing string. This well was shut in with a SICP of 9.0 psig. On September 16, 2008 the well was tested and after flowing for 1 hour through a 2" choke on the 2.875" tubing, the well gauged 464 MCFD. This completion was shut in for almost two years to allow the Mancos formation to produce solely. As a result, the revised test date and delivery for this well is May 20, 2010 per agreement with the BLM.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggjenjohann", is written over a horizontal line.

Marcia Brueggjenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #187C | 1PDP | DAKOTA | J7PK8F4PVV | 62209267
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0	SJ_OP_POST
START 04/2010	SJ_OP_POST
GAS 425 X M/D 5 EXP B/1.6000 82	SJ_OP_POST
" X 10 M/D X YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 125.192 500.769 M\$G 07/2008 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2008 12/2010 #	SJ_OP_POST

PropID: 3216 RSV CAT: 1PDP
 Well Name: ROSA UNIT #187C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 03/01/2011
 Time: 10:17:30
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

COMBINED INPUT DATA								INITIAL CALCULATED DATA				
KEYWORD & Ref. Code	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
400 START	04/2010											
401 GAS	425.00	X	M/D	5.00	EXP	B/1.6000	82.00	169.581	4/2022	82.0000	12927.	509.
402 "	X	10.00	M/D	X	YRS	EXP	5.00	217.689	5/2032	5.0000	509.	304.
500 PRI/GAS	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
501 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
502 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
503 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
504 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
505 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
506 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
507 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
508 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
509 "	01/2010	5.72	5.31	4.66	3.77	#/M			4/2010			
510 "	X	3.87	3.69	4.28	4.08	#/M			8/2010			
511 "	X	3.47	4.126	5.75	5.75	#/M			12/2010			
512 "		5.75	X	\$/M	TO	LIFE	PC	0.00			5.750	5.750
600 ATX		4.69	X	%	TO	LIFE	PC	0.00			0.047	0.047
601 STX/GAS		3.75	X	%	TO	LIFE	PC	0.00			0.037	0.037
602 OPC/T		700.00	X	\$/M	TO	LIFE	PC	0.00			700.000	700.000
705 LSE/WI		1.0000	D	FRAC	TO	LIFE	FLAT	0.00			1.000	1.000
720 NET/OIL		0.8650	D	FRAC	TO	LIFE	FLAT	0.00			0.865	0.865
740 NET/GAS		0.8650	D	FRAC	TO	LIFE	FLAT	0.00			0.865	0.865
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
901 S 92	S/95	X	FRAC	TO	LIFE	DIV	146.00		5/2032			
903 S /89	0.49	X	FRAC	TO	LIFE	MUL	92.00		5/2032			
905 S /89	1.00	X	FRAC	TO	LIFE	MUL	89.00		5/2032			
907 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		5/2032			
909 S /88	0.06	X	FRAC	TO	LIFE	MUL	92.00		5/2032			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		5/2032			
913 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		5/2032			
914 GAS	01/2008	0.00	0.00	0.00	0.00	387.0	3995.61	0.00	0.00	4.383	4/2009	
915 "	X	0.00	0.00	0.00	0.00	3192.85	5399.76	5574.48	#	18.550	7/2010	
916 "	X	4720.8	3554.64	3329.52	2804.88	#				32.960	11/2010	
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	125.19	500.77	M\$G	07/2008	AD	ESC	INV	625.961	7/2008	0	625.9	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.00
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 3216 RSV CAT: 1PDP
 Well Name: ROSA UNIT #187C
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 03/01/2011
 TIME : 10:17:30
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				-----PRICES-----		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS,	MMCF	OIL,	MBBL	GAS,	MMCF	OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000		4.383		0.000		0.000		0.00	0.000	1.0	0.000	0.000	0.000
12-2009	0.000		0.000		0.000		0.000		0.00	0.000	0.0	0.000	0.000	0.000
12-2010	0.000		31.418		0.000		27.177		0.00	3.417	1.0	0.000	92.868	92.868
12-2011	0.000		25.126		0.000		21.734		0.00	4.793	1.0	0.000	104.171	104.171
12-2012	0.000		17.346		0.000		15.004		0.00	4.793	1.0	0.000	71.917	71.917
12-2013	0.000		13.806		0.000		11.942		0.00	4.793	1.0	0.000	57.241	57.241
12-2014	0.000		11.692		0.000		10.114		0.00	4.793	1.0	0.000	48.476	48.476
12-2015	0.000		10.257		0.000		8.872		0.00	4.793	1.0	0.000	42.526	42.526
12-2016	0.000		9.206		0.000		7.963		0.00	4.793	1.0	0.000	38.168	38.168
12-2017	0.000		8.396		0.000		7.263		0.00	4.793	1.0	0.000	34.810	34.810
12-2018	0.000		7.749		0.000		6.703		0.00	4.793	1.0	0.000	32.127	32.127
12-2019	0.000		7.217		0.000		6.243		0.00	4.793	1.0	0.000	29.923	29.923
12-2020	0.000		6.771		0.000		5.857		0.00	4.793	1.0	0.000	28.073	28.073
12-2021	0.000		6.390		0.000		5.528		0.00	4.793	1.0	0.000	26.494	26.494
12-2022	0.000		6.060		0.000		5.242		0.00	4.793	1.0	0.000	25.123	25.123
12-2023	0.000		5.756		0.000		4.979		0.00	4.793	1.0	0.000	23.866	23.866
S TOT	0.000		171.573		0.000		144.620		0.00	4.535	1.0	0.000	655.785	655.785
AFTER	0.000		38.347		0.000		33.170		0.00	4.793	1.0	0.000	158.987	158.987
TOTAL	0.000		209.920		0.000		177.790		0.00	4.583	1.0	0.000	814.772	814.772

--END-- MO-YEAR	-----OPERATIONS, M\$-----					-----CAPITAL COSTS, M\$-----				8.0%	
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX, M\$	FLOW M\$	CUM. DISC BTAX, M\$
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	125.192	500.769	0.000	625.961	-625.961		-587.076
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		-587.076
12-2010	7.678	6.300	0.000	78.891	0.000	0.000	0.000	0.000	78.891		-523.641
12-2011	8.612	8.400	0.000	87.159	0.000	0.000	0.000	0.000	87.159		-458.750
12-2012	5.946	8.400	0.000	57.572	0.000	0.000	0.000	0.000	57.572		-419.062
12-2013	4.732	8.400	0.000	44.109	0.000	0.000	0.000	0.000	44.109		-390.907
12-2014	4.008	8.400	0.000	36.068	0.000	0.000	0.000	0.000	36.068		-369.590
12-2015	3.516	8.400	0.000	30.610	0.000	0.000	0.000	0.000	30.610		-352.838
12-2016	3.155	8.400	0.000	26.613	0.000	0.000	0.000	0.000	26.613		-339.353
12-2017	2.878	8.400	0.000	23.532	0.000	0.000	0.000	0.000	23.532		-328.313
12-2018	2.656	8.400	0.000	21.071	0.000	0.000	0.000	0.000	21.071		-319.159
12-2019	2.474	8.400	0.000	19.049	0.000	0.000	0.000	0.000	19.049		-311.497
12-2020	2.321	8.400	0.000	17.352	0.000	0.000	0.000	0.000	17.352		-305.034
12-2021	2.190	8.400	0.000	15.904	0.000	0.000	0.000	0.000	15.904		-299.550
12-2022	2.077	8.400	0.000	14.646	0.000	0.000	0.000	0.000	14.646		-294.873
12-2023	1.973	8.400	0.000	13.493	0.000	0.000	0.000	0.000	13.493		-290.884
S TOT	54.216	115.500	0.000	486.069	125.192	500.769	0.000	625.961	-139.892		-290.884
AFTER	13.144	70.700	0.000	75.143	0.000	0.000	0.000	0.000	75.143		-274.454
TOTAL	67.360	186.200	0.000	561.212	125.192	500.769	0.000	625.961	-64.749		-274.454

PropID: 3216 RSV CAT: 1PDP
 Well Name: ROSA UNIT #187C
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 03/01/2011
 TIME : 10:17:30
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

AFTER TAX ECONOMICS

EFFECTIVE DATE: 09/2007

--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAX	CUM. DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	500.769	0.000	-500.769	0.000	-175.269	-450.692	-422.694
12-2009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-422.694
12-2010	78.891	28.110	0.000	0.000	0.000	50.781	0.000	17.773	61.117	-373.551
12-2011	87.159	27.738	0.000	0.000	0.000	59.421	0.000	20.797	66.362	-324.144
12-2012	57.572	19.810	0.000	0.000	0.000	37.762	0.000	13.217	44.355	-293.567
12-2013	44.109	14.151	0.000	0.000	0.000	29.958	0.000	10.485	33.624	-272.105
12-2014	36.068	11.175	0.000	0.000	0.000	24.893	0.000	8.712	27.356	-255.937
12-2015	30.610	11.171	0.000	0.000	0.000	19.439	0.000	6.804	23.807	-242.909
12-2016	26.613	11.175	0.000	0.000	0.000	15.437	0.000	5.403	21.210	-232.162
12-2017	23.532	1.861	0.000	0.000	0.000	21.671	0.000	7.585	15.947	-224.680
12-2018	21.071	0.000	0.000	0.000	0.000	21.071	0.000	7.375	13.696	-218.730
12-2019	19.049	0.000	0.000	0.000	0.000	19.049	0.000	6.667	12.382	-213.749
12-2020	17.352	0.000	0.000	0.000	0.000	17.352	0.000	6.073	11.279	-209.549
12-2021	15.904	0.000	0.000	0.000	0.000	15.904	0.000	5.566	10.338	-205.984
12-2022	14.646	0.000	0.000	0.000	0.000	14.646	0.000	5.126	9.520	-202.944
12-2023	13.493	0.000	0.000	0.000	0.000	13.493	0.000	4.723	8.771	-200.351
S TOT	486.069	125.192	0.000	500.769	0.000	-139.892	0.000	-48.962	-90.930	-200.351
AFTER	75.143	0.000	0.000	0.000	0.000	75.143	0.000	26.300	48.843	-189.672
TOTAL	561.212	125.192	0.000	500.769	0.000	-64.749	0.000	-22.662	-42.087	-189.672

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	24.75	ATAX PAY OUT YEARS	24.75
BTAX PAYOUT YEARS (DISC)	24.75	ATAX PAY OUT YEARS (DISC)	24.75
BTAX NET INCOME/INVEST	0.90	ATAX NET INCOME/INVEST	0.93
BTAX NET INCOME/INVEST (DISC)	0.53	ATAX NET INCOME/INVEST (DISC)	0.68

PRESENT WORTH PROFILE AND

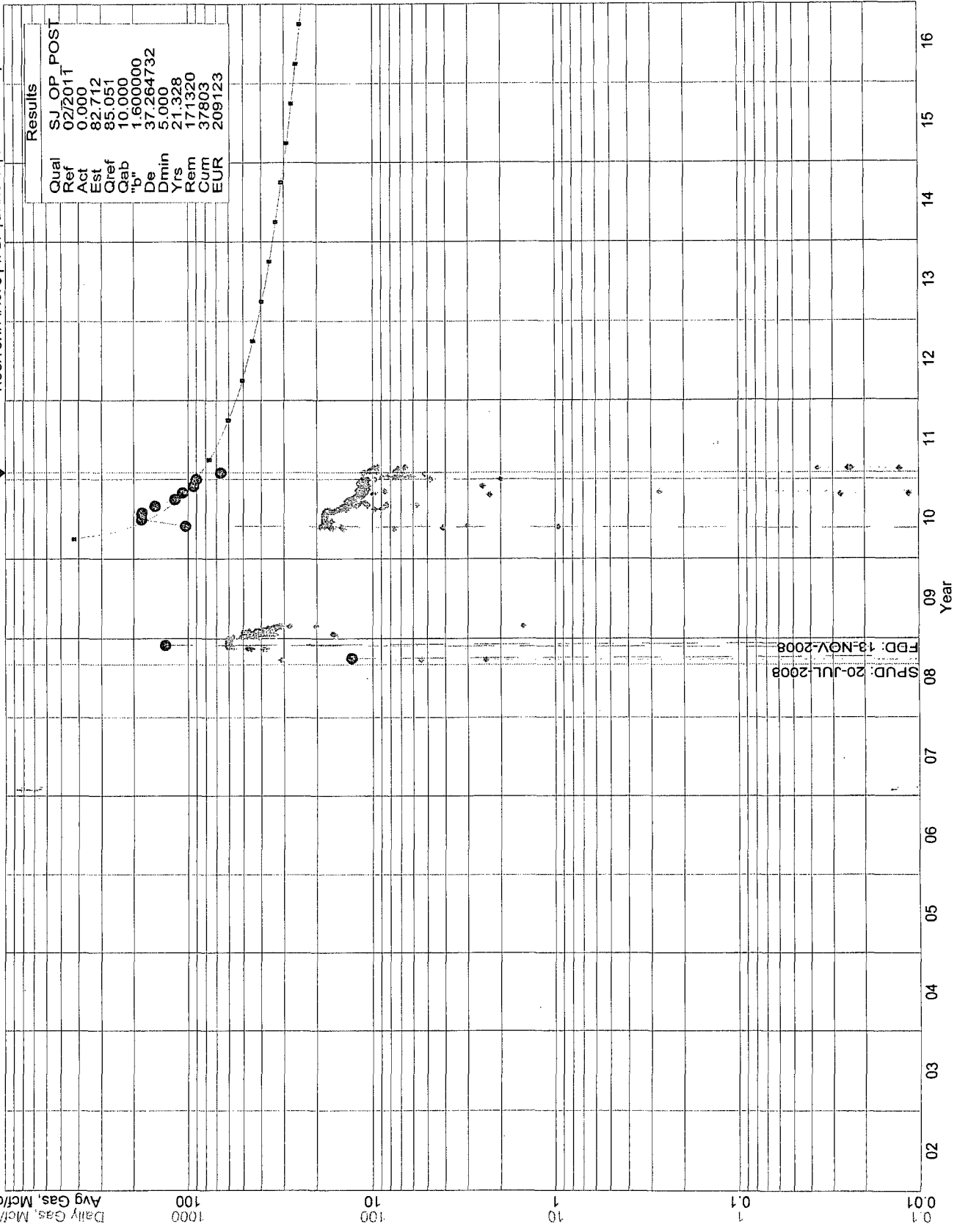
--- RATE-OF-RETURN VS. BONUS TABLE ---

P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-64.7	-42.1	-64.7
2.00	-140.2	-94.7	-133.6
5.00	-220.4	-151.1	-195.9
8.00	-274.5	-189.7	-232.8
10.00	-300.8	-208.7	-249.3
12.00	-321.5	-223.8	-261.7
15.00	-344.8	-241.0	-274.9
18.00	-361.2	-253.3	-283.5
20.00	-369.3	-259.5	-287.4
25.00	-382.8	-270.0	-293.1
30.00	-389.5	-275.5	-294.8
35.00	-391.8	-277.9	-294.1
40.00	-391.4	-278.1	-291.8
45.00	-389.0	-276.8	-288.6
50.00	-385.4	-274.6	-284.7

PRODUCTION START DATE	04/2010	PROJECT LIFE (YEARS)	24.75
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	6.421
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.793
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	-4.383
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	209.920
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	205.538
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	713.647	FINAL NET GAS (PCT)	86.500

SJB_AvgDay_Gas

Rosa Unit #187C | 1PDP | DAKOTA | J7PK8F4PVV | 62209267



SPUD: 20-JUL-2008
FID: 13-NOV-2008

ROSA UNIT #187C

BLANCO MV/BASIN MANCOS/BASIN DK

Surface Location:

1090' FSL and 1145' FWL
SW/4 SW/4 Sec 21(M), T31N, R05W
Rio Arriba, NM

Bottom Hole Location

1724' FSL and 922' FWL
NW/4 SW/4 Sec 21(L), T31N, R05W
Rio Arriba, NM

Elevation: 6801' GR
API # 30-039-30185

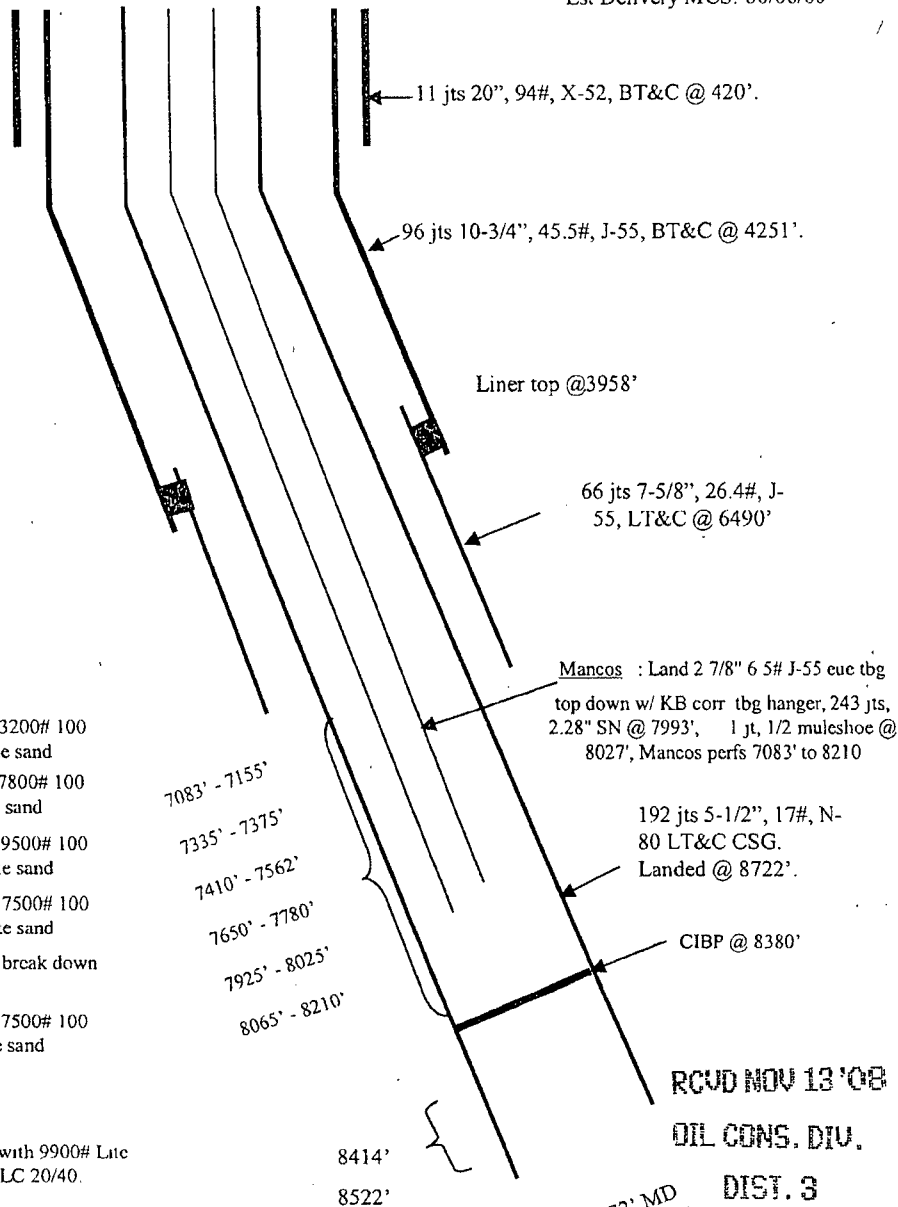
Spud: 7-20-08
Completed DK: 9-18-08
Completed MCS: 10-31-08
1st Delivery DK: 9-22-08
Lst Delivery MCS: 00/00/00

Top	MD Depth	TVD Depth
Pictured Cliffs	3728'	3681'
Lewis	4016'	3968'
Cliffhouse Ss	5936'	5888'
Menefee	5980'	5932'
Point Lookout	6185'	6137'
Mancos	6687'	6639'
Dakota	8413'	8364'

MANCOS

6th stage 7083'-7155', (33, 0.34" holes) Frac with 3200# 100 mesh white sand, follow with 133,176# 40/70 white sand
5th stage 7335'-7375', (27, 0.34" holes) Frac with 7800# 100 mesh white sand, follow with 88,622# 40/70 white sand
4th stage 7410'-7562', (36, 0.34" holes) Frac with 9500# 100 mesh white sand, follow with 125,159# 40/70 white sand
3rd stage 7650'-7780', (36, 0.34" holes) Frac with 7500# 100 mesh white sand, follow with 119,279# 40/70 white sand
2nd stage 7925'-8025', (33, 0.34" holes) unable to break down No Frac
1st stage 8065'-8210', (33, 0.34" holes) Frac with 7500# 100 mesh white sand, follow with 56,324# 40/70 white sand

Dakota 8414' - 8522' (54, 0.37" holes) Frac with 9900# Late Prop 108 14/40, follow with 3080# Tempered LC 20/40.



Hole Size	Casing	Cement	Volume	Top of Cmt
26"	20", 94#	750 sxs	1207 cu. Ft.	Surface
14-3/4"	10-3/4", 45.5#	2660 sxs	5395 cu.ft.	Surface
9-7/8"	7-5/8", 26.4#	850 sxs	1068 cu.ft.	3958'
6-3/4"	5-1/2", 17#	408 sxs	956 cu.ft.	4000'

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30185	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 187C

II. ¹⁰ Surface Location

Ul or lot no. M	Section 21	Township 31N	Range 5W	Lot.Idn	Feet from the 1090	North/South Line SOUTH	Feet from the 1145	East/West line WEST	County RIO ARriba

¹¹ Bottom Hole Location

UL or lot no. L	Section 21	Township 31N	Range 5W	Lot Idn	Feet from the 1724	North/South line SOUTH	Feet from the 922	East/West line WEST	County RIO ARriba
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
009018	GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G

IV. Well Completion Data NOTE: Mesaverde and Mancos to be completed at a later date

²¹ Spud Date 7-20-08	²² Ready Date 9-18-08	²³ TD 8772' MD	²⁴ PBDT 8670' MD	²⁵ Perforations 8414' - 8522'	²⁶ DHC, MC AZT-
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20", 94#, X-52	420'	750		
14-3/4"	10-3/4", 45.5#, J-55	4251'	2660		
9-7/8"	7-5/8", 26.4#, J-55	3958' - 6490'	850		
6-3/4"	5 1/2", 17#, N-80	8722'	408		
	2.875", 6.5#, J-55	8404'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 9-16-08	³⁴ Test Length 1.0 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 9.0 oz
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 464 mcf/d		⁴¹ Test Method Pitot
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Larry Higgins</i>			10/1/08 OIL CONSERVATION DIVISION		
Printed name: Larry Higgins			Approved by: <i>Chad L</i> 10-06-08		
Title: Drig COM			Title: SUPERVISOR DISTRICT # 3		
E-mail Address: larry.higgins@williams.com			Approval Date: OCT 06 2008		
Date: 9-23-08	Phone: 505-634-4208		<i>Bcm approve</i>		

RCVD SEP 24 '08
OIL CONS. DIV.

DIST. 3

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 23 2008
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.
NMSF-078769

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME
Rosa Unit

Report to lease

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #187C

9 API WELL NO
30-039-30185-0001

10 FIELD AND POOL, OR WILDCAT
BASIN DAKOTA

11 SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
SW/4 SW/4, Sec 21, T31N, R5W

12 COUNTY OR
Rio Arriba

13 STATE
New Mexico

19 ELEVATION CASING HEAD

ROTARY TOOLS
x

CABLE TOOLS

25 WAS DIRECTIONAL SURVEY MADE
YES

27 WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL 1 OIL WELL ☒ GAS WELL DRY OTHER

b. TYPE OF COMPLETION
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1090' FSL & 1145' FWL, sec 21, T31N, R5W
At top production interval reported below: 1724' FSL & 922' FWL, sec 21, T31N, R5W ✓
At total depth Same

15 DATE
SPUDDED
7-20-08

16 DATE T D
REACHED
9-1-08

17 DATE COMPLETED (READY TO PRODUCE)
9-18-08

14 PERMIT NO
DATE ISSUED
18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6801' GR

20 TOTAL DEPTH, MD & TVD
8772' MD / 8722' TVD

21 PLUG, BACK T D, MD & TVD
8670' MD

22 IF MULTICOMP,
HOW MANY
3*

23 INTERVALS
DRILLED BY

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA 8414' - 8522' * Mesaverde & Mancos to be completed at later date

26 TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron, Reservoir Tool, Cement Bond Log

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
20", X-52	94#	420'	26"	750 SX - SURFACE	
10-3/4", J-55	45.5#	4251'	14-3/4"	2660 SX - SURFACE	
5-1/2", N-80	17 0#	8722' 0222'	6-3/4"	408 SX - 4000' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7-5/8", 26.4#, J-55	3958'	6490'	850 sx TOC - 3958' (CBL)		2.875", 6.5#, J-55, EUE 8rd	8404'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota 8414' - 8522' Total of 54, 0 37" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8414' - 8522'	Fraced with 9900# LiteProp 108 14/40 followed w/3080# tempered LC 20/40 RCVD OCT 1 '08 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)	
		Flowing				Producing	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
9-16-08	10 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	90 oz				464 p/day		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) TO BE SOLD

TEST WITNESSED BY Air Rector

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

ACCEPTED FOR RECORD

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

SIGNED

TITLE Drig COM

DATE 9-23-08

NMOC D

SEP 23 2008

FARMINGTON FIELD OFFICE
BY T. Salazar

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	TOP	
					MEASURED DEPTH	TRUE VERTICAL DEPTH
				PICTURED CLIFFS	3728'	3681'
				LEWIS	4016'	3968'
				CLIFFHOUSE	5936'	5888'
				MENEFEE	5980'	5932'
				POINT LOOKOUT	6185'	6137'
				MANCOS	6687'	6639'
				DAKOTA	8413'	8364'

March 1, 2011

The ROSA Unit #189 DAKOTA Formation Well (non-commercial) is located 1455 feet from the North Line and 1780 feet from the East Line, Section 21 Township 31 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on May 20, 2009 and completed in the Dakota formation on August 1, 2009. The Dakota formation was completed with a pre-perforated liner between the following depths: 8148' to 8244'. This well has a 2.375" tubing string. This well was shut in with a SICP of 2 psig. On July 21, 2009 the well was tested and after flowing for 1 hour through a 2" choke on the 2.375" tubing, the well gauged 354 MCFD.

Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0.00% and is therefore determined non-commercial.

Attached to this document are the following:

- ARIES economic model output including gas price assumptions
- Historic production plot with forecast
- Well-bore schematic
- State of NM Form C-104
- BLM Form 1004-0137 (Well Completion Report)

Evaluating Engineer

A handwritten signature in black ink, reading "Marcia Brueggenjohann", is written over a horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
Williams Exploration and Production, San Juan Basin Unit

ROSA UNIT #189 | 1PDP | DAKOTA | J7PKNN4OCC | 62246105
Filtered by Scenario: SJB-OP-PostAudit

Titles

PROPID: @M.PROPID RSV CAT: @M.RESERVE_CATEGORY	BASE
WELL NAME: @M.WELL_NAME	BASE
FIELD: @M.FIELD	BASE
CNTY: @M.BHL_COUNTY ST: @M.STATE	BASE
RESERVOIR: @M.RESERVOIR	BASE
OPERATOR: @M.OPERATOR	BASE

Miscellaneous

BTU @M.BTU	BASE
WELLS 0 1	BASE

LOSS NO

Production

CUMS 0 0	SJ_OP_POST
START 08/2009	SJ_OP_POST
GAS 240 X M/D 10 MOS B/2.50 72	SJ_OP_POST
" 23 X M/D 5 EXP B/1.5 35	SJ_OP_POST
" X X M/D 30 YRS EXP 5	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMMERCIAL	SJ_OP_POST

Expenses

ATX 4.6933 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
OPC/T 700 X \$/M TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	BASE

Investments

CAPITAL 326.36112 435.02517 M\$G 05/2009 AD ESC INV	SJ_OP_POST

Overlays

SIDFILE RI_TOTAL_BR	SJ_OP_POST
LOAD MP.GAS GAS 01/2009 12/2010 #	SJ_OP_POST

PropID: 25706 RSV CAT: 1PDP
 Well Name: ROSA UNIT #189
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 Operator: WPC

Date: 02/24/2011
 Time: 08:11:43
 DBS: SJB
 Settings: SETDATA_JCM
 Scenario: SJB-OP-PostAudit

KEYWORD & Ref. Code	COMBINED INPUT DATA							INITIAL CALCULATED DATA				
	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate				
400 START	08/2009											
401 GAS	240.00 X M/D	10.00 MOS	B/2.50 72.00	32.101	5/2010	72.0000	7300.	2191.				
402 "	23.00 X M/D	5.00 EXP	B/1.5 35.00	67.543	4/2022	35.0000	700.	135.				
403 "	X X M/D	30.00 YRS	EXP 5.00	86.061	7/2039	5.0000	135.	56.				
500 PRI/GAS	01/2007 5.617 6.487 6.677 5.957 #/M				4/2007							
501 "	X 6.627 6.827 6.197 4.987 #/M				8/2007							
502 "	X 4.587 5.117 6.057 6.497 #/M				12/2007							
503 "	01/2008 6.377 7.277 8.087 8.277 #/M				4/2008							
504 "	X 9.427 9.846 11.356 7.637 #/M				8/2008							
505 "	X 6.427 4.267 2.837 4.627 #/M				12/2008							
506 "	01/2009 4.827 3.107 2.687 2.617 #/M				4/2009							
507 "	X 2.497 2.647 2.977 3.177 #/M				8/2009							
508 "	X 2.467 3.417 4.257 4.277 #/M				12/2009							
509 "	01/2010 5.72 5.31 4.66 3.77 #/M				4/2010							
510 "	X 3.87 3.69 4.28 4.08 #/M				8/2010							
511 "	X 3.47 4.126 5.75 5.75 #/M				12/2010							
512 "	5.75 X \$/M	TO LIFE	PC 0.00		7/2039		5.750	5.750				
600 ATX	4.69 X %	TO LIFE	PC 0.00		7/2039		0.047	0.047				
601 STX/GAS	3.75 X %	TO LIFE	PC 0.00		7/2039		0.037	0.037				
602 OPC/T	700.00 X \$/M	TO LIFE	PC 0.00		7/2039		700.000	700.000				
705 LSE/WI	1.0000 D FRAC	TO LIFE	FLAT 0.00		7/2039		1.000	1.000				
720 NET/OIL	0.8650 D FRAC	TO LIFE	FLAT 0.00		7/2039		0.865	0.865				
740 NET/GAS	0.8650 D FRAC	TO LIFE	FLAT 0.00		7/2039		0.865	0.865				
OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate				
901 S 92	S/95 X FRAC	TO LIFE	DIV 146.00		7/2039							
903 S /89	0.49 X FRAC	TO LIFE	MUL 92.00		7/2039							
905 S /89	0.98 X FRAC	TO LIFE	MUL 89.00		7/2039							
907 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00		7/2039							
909 S /88	0.06 X FRAC	TO LIFE	MUL 92.00		7/2039							
911 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00		7/2039							
913 S /196	S/196 X FRAC	TO LIFE	MUL 88.00		7/2039							
914 GAS	01/2009 0 0 0 0 0 0 0 3334.6 4266.6 4227 3170.6 #			14.999	11/2009							
915 "	X 2836.8 2778 2324 2421.6 2192 715.4 697.44 700.08 #			29.664	7/2010							
916 "	X 599.88 530.22 559.02 559.92 #			31.913	11/2010							

INVESTMENTS	Tangible	Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	326.36	435.03 M\$G	05/2009 AD	ESC INV	761.386	5/2009	0	761.3	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 0.98
 202 WELLS 0.00 1.00
 203 CUMO, MB 0.00 CUMG, MMF 0.00 CUML, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 09/2007 Time Frames : 4*1,99*12,8
 P.W. Date : 09/2007 Primary PW% : 8.0 Discount Freq. : MID
 Report Date : 09/2007
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = BASE
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: 25706 RSV CAT: 1PDP
 Well Name: ROSA UNIT #189
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 08:11:43
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

R E S E R V E S A N D E C O N O M I C S

EFFECTIVE DATE: 09/2007

--END-- MO-YEAR	---GROSS PRODUCTION---				---NET PRODUCTION---				---PRICES---		NO. OF WELLS	---OPERATIONS, M\$---		
	OIL, MMBL	GAS, MMCF			OIL, MMBL	GAS, MMCF			OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
09-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
10-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
11-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2007	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2008	0.000	0.000			0.000	0.000			0.00	0.000	0.0	0.000	0.000	0.000
12-2009	0.000	17.836			0.000	15.428			0.00	2.609	1.0	0.000	40.247	40.247
12-2010	0.000	14.613			0.000	12.641			0.00	3.786	1.0	0.000	47.863	47.863
12-2011	0.000	5.370			0.000	4.645			0.00	4.723	1.0	0.000	21.940	21.940
12-2012	0.000	4.155			0.000	3.594			0.00	4.723	1.0	0.000	16.975	16.975
12-2013	0.000	3.456			0.000	2.990			0.00	4.723	1.0	0.000	14.122	14.122
12-2014	0.000	2.993			0.000	2.589			0.00	4.723	1.0	0.000	12.231	12.231
12-2015	0.000	2.660			0.000	2.301			0.00	4.723	1.0	0.000	10.868	10.868
12-2016	0.000	2.406			0.000	2.081			0.00	4.723	1.0	0.000	9.832	9.832
12-2017	0.000	0.755			0.000	0.653			0.00	4.723	1.0	0.000	3.086	3.086
12-2018														
12-2019														
12-2020														
12-2021														
12-2022														
12-2023														
S TOT	0.000	54.245			0.000	46.922			0.00	3.776	1.0	0.000	177.164	177.164
AFTER	0.000	0.000			0.000	0.000			0.00	0.000	1.0	0.000	0.000	0.000
TOTAL	0.000	54.245			0.000	46.922			0.00	3.776	1.0	0.000	177.164	177.164
--END-- MO-YEAR	---OPERATIONS, M\$---					---CAPITAL COSTS, M\$---						8.0%		
	SEV + ADV TAXES	NET OPER EXPENSES	INTEREST+ PRINCIPAL	OPERATION CASH FLOW	TANGIBLE INV.	INTANG. INV.	TOTAL BORROW INV	TOTAL EQUITY INV	CASH BTAX,	FLOW M\$	CUM. BTAX,	DISC M\$		
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
12-2009	3.327	3.500	0.000	33.420	326.361	435.025	0.000	761.386	-727.966	0.000	-640.706	0.000		
12-2010	3.957	8.400	0.000	35.506	0.000	0.000	0.000	0.000	35.506	0.000	-612.157	0.000		
12-2011	1.814	8.400	0.000	11.726	0.000	0.000	0.000	0.000	11.726	0.000	-603.426	0.000		
12-2012	1.403	8.400	0.000	7.172	0.000	0.000	0.000	0.000	7.172	0.000	-598.482	0.000		
12-2013	1.167	8.400	0.000	4.554	0.000	0.000	0.000	0.000	4.554	0.000	-595.575	0.000		
12-2014	1.011	8.400	0.000	2.819	0.000	0.000	0.000	0.000	2.819	0.000	-593.909	0.000		
12-2015	0.899	8.400	0.000	1.570	0.000	0.000	0.000	0.000	1.570	0.000	-593.050	0.000		
12-2016	0.813	8.400	0.000	0.619	0.000	0.000	0.000	0.000	0.619	0.000	-592.736	0.000		
12-2017	0.255	2.800	0.000	0.031	0.000	0.000	0.000	0.000	0.031	0.000	-592.721	0.000		
12-2018														
12-2019														
12-2020														
12-2021														
12-2022														
12-2023														
S TOT	14.647	65.100	0.000	97.417	326.361	435.025	0.000	761.386	-663.969	0.000	-592.721	0.000		
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-592.721	0.000		
TOTAL	14.647	65.100	0.000	97.417	326.361	435.025	0.000	761.386	-663.969	0.000	-592.721	0.000		

PropID: 25706 RSV CAT: 1PDP
 Well Name: ROSA UNIT #189
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: DAKOTA
 PostAudit
 Operator: WPC

DATE : 02/24/2011
 TIME : 08:11:43
 DBS : SJB
 SETTINGS : SETDATA_JCM
 SCENARIO : SJB-OP-

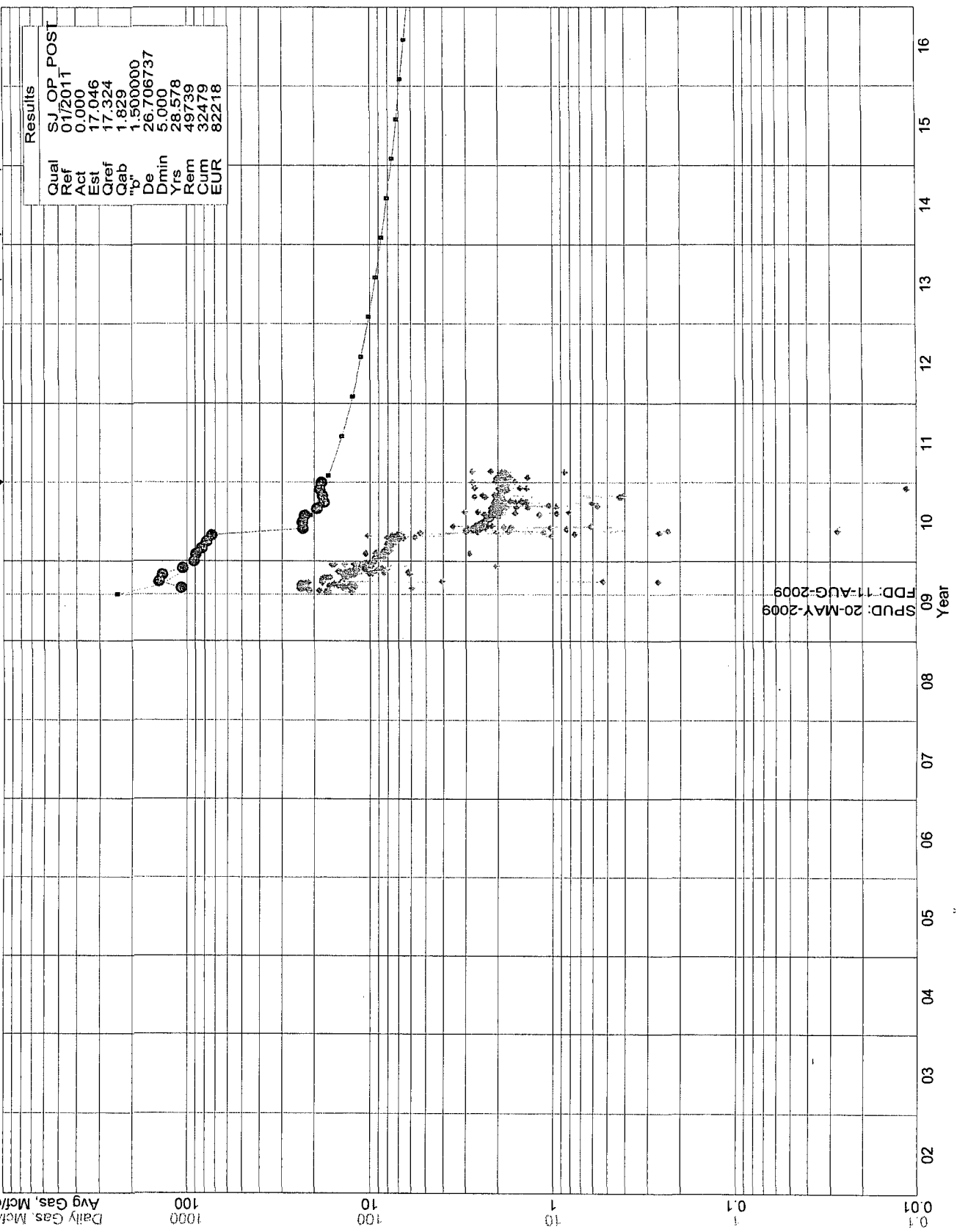
A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2007

8.0%										
--END--	TAXABLE	DEPRECIA-	DEPLETION	INTANG.	INTEREST	TAXABLE	TAX	TAXES	CASH FLOW	8.0%
MO-YEAR	CASH FLOW	TION	M\$-----	EXPENSED	PAID & CAP	INCOME	CREDIT	PAYABLE	ATAW	DISC
-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
09-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
11-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2008	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12-2009	33.420	73.279	0.000	435.025	0.000	-474.884	0.000	-166.209	-561.757	-496.369
12-2010	35.506	72.311	0.000	0.000	0.000	-36.805	0.000	-12.882	48.388	-457.461
12-2011	11.726	51.641	0.000	0.000	0.000	-39.915	0.000	-13.970	25.697	-438.330
12-2012	7.172	36.890	0.000	0.000	0.000	-29.718	0.000	-10.401	17.573	-426.216
12-2013	4.554	29.133	0.000	0.000	0.000	-24.579	0.000	-8.603	13.157	-417.817
12-2014	2.819	29.122	0.000	0.000	0.000	-26.303	0.000	-9.206	12.025	-410.710
12-2015	1.570	29.133	0.000	0.000	0.000	-27.564	0.000	-9.647	11.217	-404.572
12-2016	0.619	4.852	0.000	0.000	0.000	-4.233	0.000	-1.482	2.100	-403.507
12-2017	0.031	0.000	0.000	0.000	0.000	0.031	0.000	0.011	0.020	-403.498
12-2018										
12-2019										
12-2020										
12-2021										
12-2022										
12-2023										
S TOT	97.417	326.361	0.000	435.025	0.000	-663.969	0.000	-232.389	-431.580	-403.498
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-403.498
TOTAL	97.417	326.361	0.000	435.025	0.000	-663.969	0.000	-232.389	-431.580	-403.498

PRESENT WORTH PROFILE AND			
---- RATE-OF-RETURN VS. BONUS TABLE ----			
P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
FACTOR	WORTH	WORTH	BONUS
%-----	M\$-----	M\$-----	M\$-----
0.00	-664.0	-431.6	-664.0
2.00	-645.1	-425.0	-629.7
5.00	-618.1	-414.5	-586.1
8.00	-592.7	-403.5	-549.2
10.00	-576.6	-396.0	-527.5
12.00	-561.2	-388.5	-507.7
15.00	-539.1	-377.3	-480.8
18.00	-518.3	-366.2	-456.8
20.00	-505.1	-358.9	-442.2
25.00	-474.2	-341.3	-409.4
30.00	-446.1	-324.4	-381.0
35.00	-420.5	-308.6	-356.0
40.00	-397.1	-293.7	-334.0
45.00	-375.7	-279.7	-314.2
50.00	-356.0	-266.7	-296.4
BTAX RATE OF RETURN (PCT)	0.00	ATAW RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	9.67	ATAW PAY OUT YEARS	9.67
BTAX PAYOUT YEARS (DISC)	9.67	ATAW PAY OUT YEARS (DISC)	9.67
BTAX NET INCOME/INVEST	0.13	ATAW NET INCOME/INVEST	0.43
BTAX NET INCOME/INVEST (DISC)	0.11	ATAW NET INCOME/INVEST (DISC)	0.40
PRODUCTION START DATE	08/2009	PROJECT LIFE (YEARS)	9.67
		DISCOUNT - RATE (PCT)	8.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.377
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.723
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	54.245
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	54.245
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000
INITIAL NET GAS (PCT)	86.500	FINAL NET GAS (PCT)	86.500

SJB_AvgDay_Gas



ROSA UNIT #189
BLANCO MV / BASIN MANCOS / BASIN DK

Location: 1455' FNL & 1780' FEL
 SW/4 NE/4 Section 21 (G), T31N, R05W
 Rio Arriba Co., NM

Elevation: 6589' GR
API #: 30-039-30186

Spud Date 5-20-09
 Completed 8-1-09
 1st Delivered 00-00-00 MV
 00-00-00 MC
 00-00-00DK

<u>Tops</u>	<u>Depth</u>
Kirtland	2836'
Pictured Cliffs	3432'
Cliff House	5684'
Menefee	5727'
Point Lookout	5929'
Mancos	6327'
Dakota	8148'

7 jts of 10 3/4", 40.5#, J-55, ST&C csg. Set @ 312'.

94 jts of 7-5/8", 26.4#, K-55, LT&C csg. Set @ 3928'.

RCVD AUG 4 '09
 OIL CONS. DIV.

DIST. 3

Tubing: 252 jts 2-3/8", J-55, 4.7#, EUE tbg,
 one 1.78" F- Nipple, one jt 2-3/8"
 J-55, 6.5#, EUE tbg, one 2.3/8" Exp Chk - 1/2
 M/S. EOT - 8213'

CH/MEN: 5460'-5777' (57, 0.34 holes) Frac w/5063#
 20/40 BASF followed w/ 76,803# 20/40 BASF

5460' - 5777'

PT/LO: 5898'-6282' (64, 0.34 holes) Frac w/5044#
 20/40 BASF followed w/ 75,317# 20/40 BASF

5898' - 6282'

Uppr Mancos: 7079'-7300' (69, 0.34 holes) Frac
 w/4511# 100 mesh followed w/ 120,560# 40/70 BASF

7079' - 7300'

Lwr Mancos: 7375'-7515' (45, 0.34 holes) Frac w/5590#
 100 mesh followed w/ 78,870# 40/70 BASF

7375' - 7515'

Dakota: 8148'-8244' (63, 0.34" holes) Frac w/ 6484# 100
 mesh BASF followed with 73,279# 40/70 mesh BASF

8148' - 8244'

215 jts of 5-1/2", 17#, N-80, LT&C csg. Set @ 8264'.

TD @ 8268'
 PBTD @ 8259'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	290 sxs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	630 sxs	1561 cu.ft.	surface
6 3/4"	5 1/2", 17#	375 sxs	517 cu.ft.	3550' - CBL

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

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address WILLIAMS PRODUCTION COMPANY P.O. Box 640 Aztec, NM 87410		² OGRID Number 120782
		³ Reason for Filing Code/ Effective Date NW
⁴ API Number 30-039-30186	⁵ Pool Name BASIN DAKOTA	⁶ Pool Code 71599
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 189

II. ¹⁰ Surface Location

UL or lot no. G	Section 21	Township 31N	Range 5W	Lot Idn	Feet from the 1455	North/South Line NORTH	Feet from the 1780	East/West line EAST	County Rio Arriba

¹¹ Bottom Hole Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID 009018	¹⁹ Transporter Name and Address GIANT REFINING P O BOX 12999 SCOTTSDALE AZ 85267	²⁰ O/G/W O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		REC'D AUG 4 '09

IV. Well Completion Data

²¹ Spud Date 5-20-09	²² Ready Date 8-1-09	²³ TD 8268' MD	²⁴ PBTD 8259' MD	²⁵ Perforations 8148' - 8244'	²⁶ DHC, MC AZT-3192
²⁷ Hole Size 14-3/4"	²⁸ Casing & Tubing Size 10-3/4", 40.5#, J J-55	²⁹ Depth Set 312'	³⁰ Sacks Cement 290 sx - surface		
9-7/8"	7-5/8", 26.4#, K-55	3928'	630 sx - surface		
6-3/4"	5 1/2", 17#, N-80	8264'	375 sx - 3550' (CBL)		
	2.375", 4.7#, J-55	8213'	NONE		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date 7/21/09	³⁴ Test Length 1 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 0
³⁷ Choke Size 2"	³⁸ Oil	³⁹ Water	⁴⁰ Gas 354 mcf/d		⁴¹ Test Method Pitot

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Heather Riley</i>		OIL CONSERVATION DIVISION Approved by: <i>Charl</i> 8-19-09 Title: SUPERVISOR DISTRICT # 3 Approval Date: AUG 19 2009	
Printed name: Heather Riley			
Title: Regulatory Specialist			
E-mail Address: Heather.riley@williams.com			
Date: 8/4/09	Phone: 505-634-4222		

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*

1a TYPE OF WELL: ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b TYPE OF COMPLETION:
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

RECEIVED

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

AUG 04 1999

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

Bureau of Land Management
Farmington Field Office

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At Surface: 1455' FNL & 1455' FEL, sec 21, T31N, R5W
At top production interval reported below: Same
At total depth: Same

5 LEASE DESIGNATION AND LEASE NO.
NMSF-078769

6 IF INDIAN ALLOTTEE OR

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #189

9 API WELL NO

30-039-30186 -0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC. T. R. M. OR BLOCK AND
SURVEY OR AREA
Sec 21, T31N, R5W

12. COUNTY OR
Rio Arriba

13 STATE
New Mexico

15 DATE
SPUDDED
5-20-09

16 DATE T.D.
REACHED
6-6-09

17 DATE COMPLETED (READY TO PRODUCE)
8-1-09

14 PERMIT NO
DATE ISSUED
18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6589' GR

19 ELEVATION CASING HEAD

RCVD AUG 6 '09

20 TOTAL DEPTH, MD & TVD
8268'

21 PLUG. BACK T.D., MD & TVD
8259' MD

22 IF MULTICOMP.
HOW MANY
3

23 INTERVALS
DRILLED BY

ROTARY TOOLS

x

CABLE TOOLS

OIL CONS. DIV.

24 PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN DAKOTA: 8148' - 8244' MD

25 WAS DIRECTIONAL SURVEY MADE
No

DIST. 3

26 TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

No

Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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
10-3/4", J-55	40.5#	312'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26 4#	3928'	9-7/8"	630 SX - SURFACE	
5-1/2", N-80	17.0#	8264'	6-3/4"	375 SX - 3550' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4.7#, J-55, EUE 8rd	8213'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: 8148' - 8244' Total of 63, 0.34" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8148' - 8244'	Fraced with 6484# 100 mesh BASF followed with 73,279# 40/70 mesh BASF

33 PRODUCTION MESAVERDE, BASIN MANCOS AND BASIN DAKOTA FORMATIONS COMMINGLED AND PRODUCING UNDER AUTHORIZATION DHC AZT 3192

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tic-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
7-21-09	1 hr	2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	2 lb.				354 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

TEST WITNESSED BY Weldon Higgins

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

ACCEPTED FOR FILING

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

SIGNED

Walter R. Riley

TITLE Regulatory Specialist

DATE 8/4/09

AUG 05 2009

NMOCD

FARMINGTON FIELD
BY *[Signature]*

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	TOP	
					NAME	MEASURED DEPTH
				PICTURED CLIFFS	3432'	
				CLIFFHOUSE	5684'	
				MENEFEE	5727'	
				POINT LOOKOUT	5929'	
				MANCOS	6327'	
				DAKOTA	8148'	

TRUE VERTICAL DEPTH