

133



November 15, 2013

Bureau of Land Management (3 copies)
Farmington Resource Area
Attn: Mr. Wayne Townsend
6251 College Blvd. Suite A
Farmington, NM 87402

State of New Mexico (2 copies)
Commissioner of Public Lands
Attn: Mr. Pete Martinez
P.O. Box 1148
Santa Fe, NM 87504-1138

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

Re: Rosa Unit 1, Sec. No. 587
San Juan and Rio Arriba Counties, New Mexico
Notice of Completion on Non-Commercial Wells
Mancos formation

Gentlemen:

Pursuant to the provisions of Section 10 of the Rosa Unit Agreement 1 Sec. No. 587, WPX Energy Production, LLC, As Unit Operator, has determined that the Rosa #600, #601, #602, #630 are not capable of producing unitized substances in paying quantities.

WELLDATA

The Rosa Unit #600 Mancos Formation Well (non-commercial) is located 2320 feet from the North Line and 2600 feet from the West Line, Section 11 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 18, 2010, and completed in the Mancos formation on June 28, 2011. The Mancos formation was completed with a pre-perforated liner between the following depths:

7515' to 8495'

This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 4.5" tubing, the well tested good.

The Rosa Unit #601 Mancos Formation Well (non-commercial) is located 1475 feet from the North Line and 1220 feet from the East Line, Section 31 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 13, 2010, and completed in the Mancos formation on May 26, 2011. The Mancos formation was completed with a pre-perforated liner between the following depths:

6925' to 8320'

This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 4.5" tubing, the well tested good.

The Rosa Unit #602 Mancos Formation Well (non-commercial) is located 1200 feet from the North Line and 1715 feet from the West Line, Section 27 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 10, 2010, and completed in the Mancos formation on October 27, 2010. The Mancos formation was completed with a pre-perforated liner between the following depths:

8055' to 8390'

This well has a 2.375" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 2.375" tubing, the well tested good.

The Rosa Unit #630 Mancos Formation Well (non-commercial) is located 2480 feet from the North Line and 2230 feet from the East Line, Section 7 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 11, 2009, and completed in the Mancos formation on October 30, 2010. The Mancos formation was completed with a pre-perforated liner between the following depths:

7000' to 7890'

This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 2.375" tubing, the well tested good.

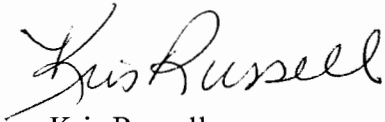
Based on the historic and projected production, the lease operating expenses, and the gas price, this well is expected to have a Before Tax Rate of Return (BTAXROR) of 0% and is therefore determined non-commercial.

If this determination meets 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.

Copies of this letter are being resubmitted sent to the Rosa Unit working interest owners on the attached sheet.

Sincerely,

A handwritten signature in black ink that reads "Kris Russell". The signature is fluid and cursive, with the first name "Kris" and last name "Russell" clearly distinguishable.

Kris Russell
Land Data Specialist
WPX Energy Production, LLC
P.O. Box 3102
Tulsa, OK 74101
539/573-6181
kris.russell@wpxenergy.com

cc: Working Interest Owners
Federal Management Team

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 foregoing is the approval of Notice of Completion of Non-Commercial wells for the Rosa Unit #600, #601, #602, #630 Mancos Formation wells.

WORKING INTEREST OWNERS
ROSA UNIT

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

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

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

MR. FRED E. TURNER, LLC
4925 GREENVILLE AVENUE, #852
DALLAS, TX 75206-4079

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

MR. JOHN L. TURNER
525 GILMER STREET #108
SULPHUR SPRINGS, TX 75482

OMIMEX PETROLEUM, INC
ATTN: CLARK P. STORMS
7950 JOHN T. WHITE ROAD
FORT WORTH, TX 76120

CONOCOPHILLIPS COMPANY
ATTN: ROCKY MTN AND
P.O. BOX 4289
FARMINGTON, NM 87499-4289

MS VICTORIA WEBB
806 CORDOVA
DALLAS, TX 75223

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

CROSSTIMBERS (XTO)
ATTN: SAN JUAN/ROCKY MTN LAND
810 HOUSTON STREET, STE 2000
FORT WORTH, TX 76102-6298

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

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

SMUD
ATTN: RANDY DREITH
6201 S STREET, MAILSTOP A404
SACRAMENTO, CA 95817

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

November 16, 2013

The Rosa Unit #600 Mancos Formation Well (non-commercial) is located 2320 feet from the North Line and 2600 feet from the West Line, Section 11 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on July 18, 2010, and completed in the Mancos formation on June 28, 2011. The Mancos formation was completed with a pre-perforated liner between the following depths: 7515' to 8495'. This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 4.5" tubing, the well tested good.

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

Marcia Brueggenjohann
Manager, Reservoir Engineering
WPX Energy, San Juan Basin Unit

ROSA UNIT #600 | 1PDP | MANCOS | L77IBAPCAN | 62307474
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
SHRINK @M.SHRINK_PLANT	BASE
<u>LOSS NO</u>	

Production

CUMS 0.0 0.000	SJ_OP_POST
START 06/2011	SJ_OP_POST
GAS 429.491 X M/D 7.000000 EXP B/1.8000 74.667497	SJ_OP_POST
" X X M/D 269 IMO EXP 7.000000	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMR	SJ_OP_POST
----------------------------	------------

Expenses

OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST
GTC/GAS @M.GATHERING_FEE X \$/M TO LIFE PC 0	SJ_OP_POST
FLU/REV @M.FLU_SHRINK X FRAC TO LIFE PC 0	SJ_OP_POST
ATX 5.478 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/OIL 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/NGL 3.75 X % TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	SJ_OP_POST
------------------------------	------------

Investments

CAPITAL 264.4737933 528.9475867 M\$G 06/2011 AD ESC INV	SJ_OP_POST
---	------------

Overlays

SIDFILE STAX_ADTAX_ADJ	SJ_OP_POST
LOAD MP.GAS GAS 06/2011 10/2013 #	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #600
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: MANCOS
 Operator: WPX

Date: 11/06/2013
 Time: 14:30:00
 DBS: SJB
 Settings: SETDATA_JM
 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	06/2011											
401 GAS	429.49	X	M/D	7.00	EXP	B/1.8000	74.67	199.619 12/2018	74.6675	13064.	1120.	
402 "	X	X	M/D	269.00	IMO	EXP	7.00	348.445 5/2041	7.0000	1120.	220.	
500 PRI/GAS	01/2006	8.697	6.687	6.097	5.567	#/M		4/2006				
501 "	X	5.687	4.757	5.077	5.967	#/M		8/2006				
502 "	X	6.642	5.424	6.714	7.135	#/M		12/2006				
503 "	01/2007	5.617	6.487	6.677	5.957	#/M		4/2007				
504 "	X	6.627	6.827	6.197	4.987	#/M		8/2007				
505 "	X	4.587	5.117	6.057	6.497	#/M		12/2007				
506 "	01/2008	6.377	7.277	8.087	8.277	#/M		4/2008				
507 "	X	9.427	9.846	11.356	7.637	#/M		8/2008				
508 "	X	6.427	4.267	2.837	4.627	#/M		12/2008				
509 "	01/2009	4.827	3.107	2.687	2.617	#/M		4/2009				
510 "	X	2.497	2.647	2.977	3.177	#/M		8/2009				
511 "	X	2.467	3.417	4.257	4.277	#/M		12/2009				
512 "	01/2010	5.72	5.32	4.64	3.77	#/M		4/2010				
513 "	X	3.80	3.69	4.28	4.08	#/M		8/2010				
514 "	X	3.20	3.56	2.98	4.12	#/M		12/2010				
515 "	01/2011	3.884	4.084	3.651	3.868	#/M		4/2011				
516 "	X	4.025	4.044	4.124	4.143	#/M		8/2011				
517 "	X	3.735	3.510	3.382	3.287	#/M		12/2011				
518 "	01/2012	4.86	4.86	4.86	4.86	#/M		4/2012				
519 "	X	4.86	4.86	4.86	4.86	#/M		8/2012				
520 "	X	4.86	4.86	4.86	4.86	#/M		12/2012				
521 "	01/2013	3.68	3.68	3.68	3.59	#/M		4/2013				
522 "	X	3.59	3.59	3.59	3.59	#/M		8/2013				
523 "	X	3.59	3.59	4.32	4.32	#/M		12/2013				
524 "		4.32	X	\$/M	TO	LIFE	PC	0.00		4.320	4.860	
600 OPC/T	1264.00	X	\$/M	TO	LIFE	PC	0.00	5/2041		1264.000	1264.000	
601 GTC/GAS	0.50	X	\$/M	TO	LIFE	PC	0.00	5/2041		0.503	0.503	
602 FLU/REV	0.05	X	FRAC	TO	LIFE	PC	0.00	5/2041		0.050	0.050	
603 ATX	5.48	X	%	TO	LIFE	PC	0.00	5/2041		0.055	0.055	
604 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00	5/2041		0.037	0.037	
605 STX/OIL	3.75	X	%	TO	LIFE	PC	0.00	5/2041		0.037	0.037	
606 STX/NGL	3.75	X	%	TO	LIFE	PC	0.00	5/2041		0.037	0.037	
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00	5/2041		1.000	1.000	
720 NET/OIL	0.8200	D	FRAC	TO	LIFE	FLAT	0.00	5/2041		0.820	0.820	
740 NET/GAS	0.8200	D	FRAC	TO	LIFE	FLAT	0.00	5/2041		0.820	0.820	
OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @ End Pt.	Init.Deff	Init. Rate	Final Rate	
900 S /772	S/428	X	FRAC	TO	LIFE	MINUS	708.00	5/2041				
901 S /772	S/772	X	FRAC	TO	LIFE	MINUS	709.00	5/2041				
902 S /772	S/772	X	FRAC	TO	LIFE	MINUS	710.00	5/2041				
903 S /772	S/772	X	FRAC	TO	LIFE	DIV	428.00	5/2041				
904 S /873	S/772	X	FRAC	TO	LIFE	MUL	873.00	5/2041				
905 S /773	S/431	X	FRAC	TO	LIFE	MINUS	711.00	5/2041				
906 S /773	S/773	X	FRAC	TO	LIFE	DIV	431.00	5/2041				
907 S /876	S/773	X	FRAC	TO	LIFE	MUL	876.00	5/2041				
908 S /678	1.00	X	FRAC	TO	LIFE	MUL	442.00	5/2041				
909 S /734	S/678	X	FRAC	TO	LIFE	MINUS	708.00	5/2041				
910 S /734	S/734	X	FRAC	TO	LIFE	MINUS	709.00	5/2041				
911 S /734	S/734	X	FRAC	TO	LIFE	MINUS	710.00	5/2041				
912 S /734	S/734	X	FRAC	TO	LIFE	MINUS	711.00	5/2041				
913 S /735	1.00	X	FRAC	TO	LIFE	MUL	473.00	5/2041				
914 S /736	S/734	X	X	TO	LIFE	DIV	678.00	5/2041				
915 S /1064	S/736	X	FRAC	TO	LIFE	MUL	1064.00	5/2041				
916 GAS	06/2011	266.32	2079.9	5273.65	1130.56	1430.32	#	10.181 10/2011				
917 "	X	14067.24	7692.57	7792.32	6168.2	5875.37	5076.12	56.853 4/2012				
918 "	X	4694.55	4091.63	3996.01	3656.75	3290.74	3184.9	79.767 10/2012				
919 "	X	2894.29	3155.43	2916.59	2107.34	2095.14	2506.02	95.442 4/2013				
920 "	X	2312.03	2131.78	2268.65	2250.75	2133.54	#	106.539 9/2013				
INVESTMENTS	Tangible Intang Units			Invest. Point		Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	264.47	528.95	M&G	06/2011	AD	ESC	INV	793.421	6/2011	0	793.4	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.01				
202 WELLS	0.00	1.00			
203 SHRINK	0.88				
204 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 06/2011 Time Frames : 7,99*12,5
P.W. Date : 06/2011 Primary PW% : 10.0 Discount Freq. : MID
Report Date : 06/2011
Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = SJ_OP_POST
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #600
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPK

DATE : 11/06/2013
 TIME : 14:30:00
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

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

EFFECTIVE DATE: 06/2011

--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
12-2011	0.000	31.941		0.000	23.048		0.00	3.588	1.0	0.000	82.696	82.696
12-2012	0.000	53.876		0.000	38.877		0.00	4.903	1.0	0.000	190.596	190.596
12-2013	0.000	26.922		0.000	19.427		0.00	3.757	1.0	0.000	72.995	72.995
12-2014	0.000	22.029		0.000	15.896		0.00	4.358	1.0	0.000	69.271	69.271
12-2015	0.000	18.892		0.000	13.632		0.00	4.358	1.0	0.000	59.407	59.407
12-2016	0.000	16.755		0.000	12.091		0.00	4.358	1.0	0.000	52.689	52.689
12-2017	0.000	15.183		0.000	10.956		0.00	4.358	1.0	0.000	47.745	47.745
12-2018	0.000	13.965		0.000	10.077		0.00	4.358	1.0	0.000	43.914	43.914
12-2019	0.000	12.966		0.000	9.357		0.00	4.358	1.0	0.000	40.774	40.774
12-2020	0.000	12.059		0.000	8.702		0.00	4.358	1.0	0.000	37.920	37.920
12-2021	0.000	11.215		0.000	8.093		0.00	4.358	1.0	0.000	35.266	35.266
12-2022	0.000	10.430		0.000	7.526		0.00	4.358	1.0	0.000	32.797	32.797
12-2023	0.000	9.700		0.000	6.999		0.00	4.358	1.0	0.000	30.501	30.501
12-2024	0.000	9.021		0.000	6.509		0.00	4.358	1.0	0.000	28.366	28.366
12-2025	0.000	8.389		0.000	6.054		0.00	4.358	1.0	0.000	26.381	26.381
12-2026	0.000	7.802		0.000	5.630		0.00	4.358	1.0	0.000	24.534	24.534
12-2027	0.000	7.256		0.000	5.236		0.00	4.358	1.0	0.000	22.817	22.817
12-2028	0.000	2.304		0.000	1.663		0.00	4.358	1.0	0.000	7.245	7.245
12-2029												
12-2030												
S TOT	0.000	290.704		0.000	209.772		0.00	4.319	1.0	0.000	905.914	905.914
AFTER	0.000	0.000		0.000	0.000		0.00	0.000	1.0	0.000	0.000	0.000
TOTAL	0.000	290.704		0.000	209.772		0.00	4.319	1.0	0.000	905.914	905.914

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				10.0%	
	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\$
12-2011	6.068	28.034	0.000	48.594	264.474	528.948	0.000	793.421	-744.827	-746.160
12-2012	14.622	50.647	0.000	125.327	0.000	0.000	0.000	0.000	125.327	-633.128
12-2013	5.397	31.540	0.000	36.058	0.000	0.000	0.000	0.000	36.058	-603.564
12-2014	5.235	29.147	0.000	34.889	0.000	0.000	0.000	0.000	34.889	-577.558
12-2015	4.490	27.156	0.000	27.761	0.000	0.000	0.000	0.000	27.761	-558.747
12-2016	3.982	25.800	0.000	22.906	0.000	0.000	0.000	0.000	22.906	-544.636
12-2017	3.609	24.803	0.000	19.333	0.000	0.000	0.000	0.000	19.333	-533.810
12-2018	3.319	24.030	0.000	16.566	0.000	0.000	0.000	0.000	16.566	-525.376
12-2019	3.082	23.396	0.000	14.297	0.000	0.000	0.000	0.000	14.297	-518.759
12-2020	2.866	22.820	0.000	12.234	0.000	0.000	0.000	0.000	12.234	-513.612
12-2021	2.665	22.284	0.000	10.316	0.000	0.000	0.000	0.000	10.316	-509.666
12-2022	2.479	21.786	0.000	8.532	0.000	0.000	0.000	0.000	8.532	-506.699
12-2023	2.305	21.323	0.000	6.873	0.000	0.000	0.000	0.000	6.873	-504.527
12-2024	2.144	20.892	0.000	5.330	0.000	0.000	0.000	0.000	5.330	-502.995
12-2025	1.994	20.491	0.000	3.895	0.000	0.000	0.000	0.000	3.895	-501.978
12-2026	1.854	20.119	0.000	2.561	0.000	0.000	0.000	0.000	2.561	-501.369
12-2027	1.724	19.772	0.000	1.320	0.000	0.000	0.000	0.000	1.320	-501.084
12-2028	0.548	6.518	0.000	0.179	0.000	0.000	0.000	0.000	0.179	-501.048
12-2029										
12-2030										
S TOT	68.384	440.559	0.000	396.971	264.474	528.948	0.000	793.421	-396.450	-501.048
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-501.048
TOTAL	68.384	440.559	0.000	396.971	264.474	528.948	0.000	793.421	-396.450	-501.048

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #600
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPK

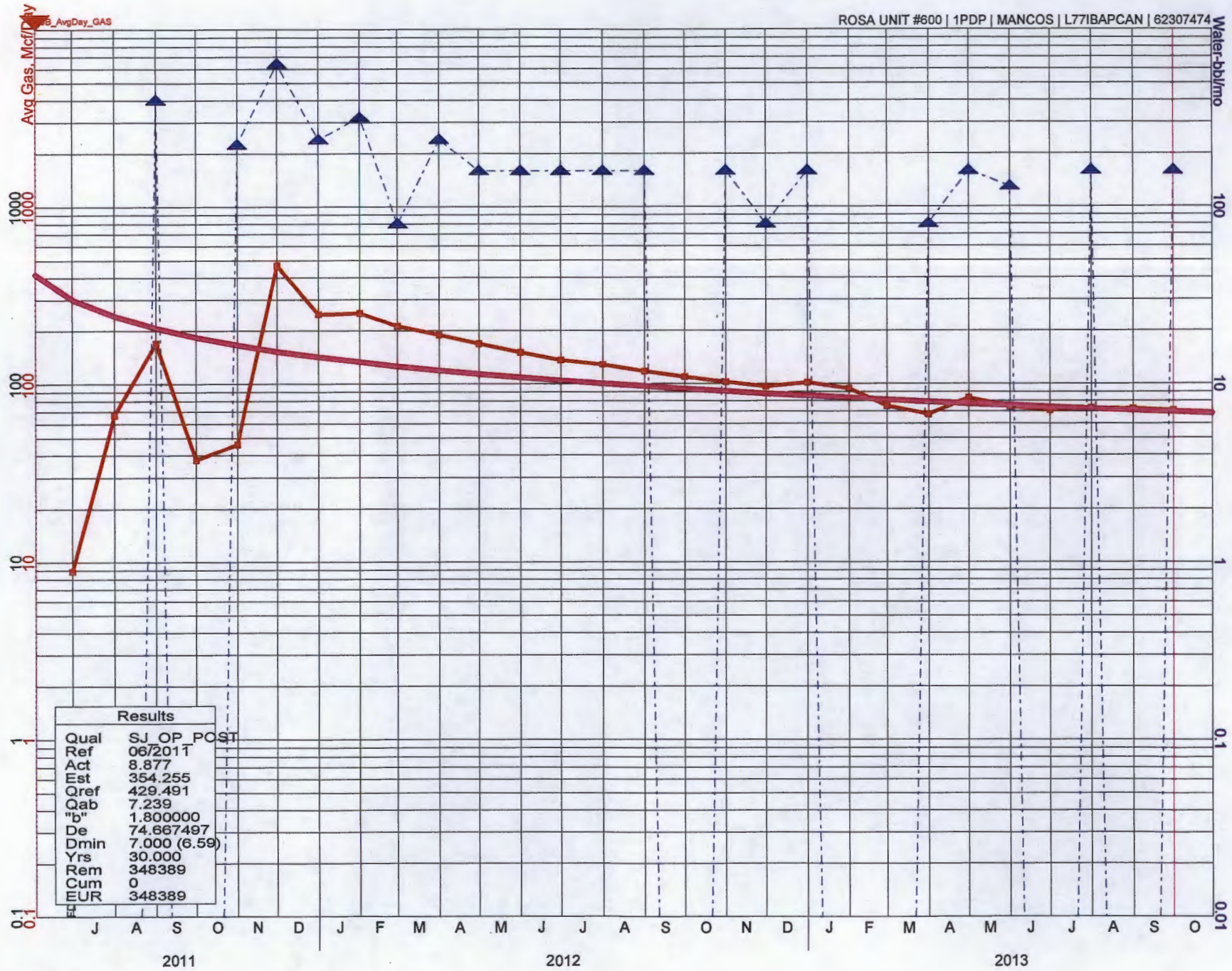
DATE : 11/06/2013
 TIME : 14:30:00
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

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

EFFECTIVE DATE: 06/2011

--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 ATAK M\$-----	10.0% CUM. DISC ATAK M\$-----
12-2011	48.594	22.046	0.000	528.948	0.000	-502.400	0.000	-195.936	-548.891	-555.596
12-2012	125.327	53.529	0.000	0.000	0.000	71.797	0.000	28.001	97.326	-467.817
12-2013	36.058	53.970	0.000	0.000	0.000	-17.913	0.000	-6.986	43.044	-432.526
12-2014	34.889	38.543	0.000	0.000	0.000	-3.653	0.000	-1.425	36.314	-405.458
12-2015	27.761	27.541	0.000	0.000	0.000	0.220	0.000	0.086	27.675	-386.705
12-2016	22.906	23.602	0.000	0.000	0.000	-0.696	0.000	-0.271	23.178	-372.428
12-2017	19.333	23.606	0.000	0.000	0.000	-4.273	0.000	-1.666	21.000	-360.668
12-2018	16.566	21.636	0.000	0.000	0.000	-5.071	0.000	-1.978	18.543	-351.227
12-2019	14.297	0.000	0.000	0.000	0.000	14.297	0.000	5.576	8.721	-347.191
12-2020	12.234	0.000	0.000	0.000	0.000	12.234	0.000	4.771	7.463	-344.051
12-2021	10.316	0.000	0.000	0.000	0.000	10.316	0.000	4.023	6.293	-341.644
12-2022	8.532	0.000	0.000	0.000	0.000	8.532	0.000	3.327	5.205	-339.835
12-2023	6.873	0.000	0.000	0.000	0.000	6.873	0.000	2.680	4.193	-338.509
12-2024	5.330	0.000	0.000	0.000	0.000	5.330	0.000	2.079	3.251	-337.575
12-2025	3.895	0.000	0.000	0.000	0.000	3.895	0.000	1.519	2.376	-336.954
12-2026	2.561	0.000	0.000	0.000	0.000	2.561	0.000	0.999	1.562	-336.583
12-2027	1.320	0.000	0.000	0.000	0.000	1.320	0.000	0.515	0.805	-336.409
12-2028	0.179	0.000	0.000	0.000	0.000	0.179	0.000	0.070	0.109	-336.387
12-2029										
12-2030										
S TOT	396.971	264.474	0.000	528.948	0.000	-396.450	0.000	-154.616	-241.835	-336.387
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-336.387
TOTAL	396.971	264.474	0.000	528.948	0.000	-396.450	0.000	-154.616	-241.835	-336.387

BTAX RATE OF RETURN (PCT)	0.00	ATAK RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	16.92	ATAK PAY OUT YEARS	16.92	---- RATE-OF-RETURN VS. BONUS TABLE ----			
BTAX PAYOUT YEARS (DISC)	16.92	ATAK PAY OUT YEARS (DISC)	16.92	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	0.50	ATAK NET INCOME/INVEST	0.70	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST (DISC)	0.37	ATAK NET INCOME/INVEST (DISC)	0.58	%-----	M\$-----	M\$-----	M\$-----
				0.00	-396.5	-241.8	-396.5
PRODUCTION START DATE	06/2011	PROJECT LIFE (YEARS)	16.92	5.00	-458.1	-296.5	-426.6
		DISCOUNT - RATE (PCT)	10.00	10.00	-501.0	-336.4	-449.5
				15.00	-532.5	-366.9	-467.8
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	4.079	20.00	-556.6	-391.0	-482.9
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	4.358	25.00	-575.6	-410.6	-495.6
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.	30.00	-591.0	-427.0	-506.4
				35.00	-603.8	-440.9	-515.8
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000	40.00	-614.6	-452.9	-524.0
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	290.704	50.00	-632.0	-472.7	-537.7
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	290.704	60.00	-645.5	-488.6	-548.9
				70.00	-656.3	-501.6	-558.2
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000	80.00	-665.2	-512.7	-566.1
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000	90.00	-672.7	-522.2	-573.0
INITIAL NET GAS (PCT)	82.000	FINAL NET GAS (PCT)	82.000	100.00	-679.1	-530.5	-579.0



ROSA UNIT #600 BASIN MANCOS/BASIN DK

Location: 2320' FNL & 2600' FWL
SE/4 NW/4 Section 11 (F), T31N, R4W
Rio Arriba Co., NM
Elevation: 7018' GR
API: 30-039-29783

Spud Date 07/18/2010
Completed 10/05/2011
ID'd:
Mancos 06/28/2011
Dakota TA'd 10/03/2011

<u>Tops</u>	<u>Depth</u>
Ojo Alamo	3332'
Kirtland	3466'
Pictured Cliffs	3945'
Cliff House	6224'
Point Lookout	6394'
Mancos	6914'
Graneros	8500'
Dakota	8603'

MC 5th: 7515'-7445' (24, .34" holes) Frac w/7500# 100 mesh sand followed w/100,400# 30/70 mesh Ottawa sand

MC 4th: 7590-7795' (42, .34" holes) Frac w/ 7640# 100 mesh PSA followed w/144,840# 30/70 PSA

MC 3rd: 7865'-8045' (42, .34" holes) Frac w/ 7500# 100 mesh followed w/149,100# 30/70 PSA sand

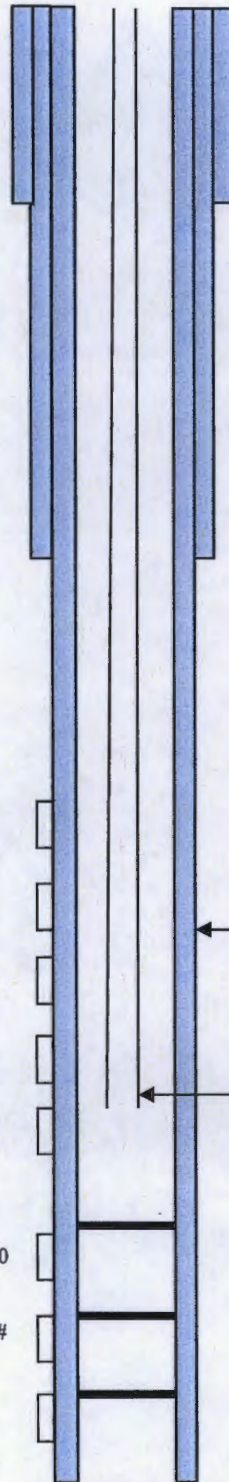
MC 2nd: 8160'-8280' (30, .34" holes) Frac w/7600# 100 mesh Brady followed w/140,400# 30/50 Brady

MC 1st: 8460'-8495' (24, .34" holes) Frac w/5020# 100 mesh white sand followed w/25,000# 30/70 Brown sand

Dakota 3rd: 8545'-8580' (24, .34" holes) Frac w/5100# 100 mesh followed w/80,200# 30/50 Ottawa sand

Dakota 2nd: 8690'-8706' (16, .34" holes) Frac w/104,060# 20/40 mesh BASF

Dakota 1st stage: 8874'-8922' 16, .34" holes)
No stimulation



← 13 jts of 13-3/8", 68#, L-80, BT&C csg.
Set @ 533'
Hole Size: 17-1/2"

← 100 jts of 9-5/8", 36#, K-55, LT&C csg. Set @
4513'.
Hole Size: 12-1/4"

← 202 jts of 4-1/2", 11.6#, P-110, LT&C csg.
Landed @ 9032'. Float collar @ 9010'.
Marker jt @ 5374'
Hole Size: 7-7/8"

← Land well at 8455' KB as follows one 1/2 M/S - Exp/Chk,
one joint 2.375", N-80, 4.7 #, EUE, 8 rd tbg, one 1.78" F
Nipple, 259 jts 2.375", N-80, 4.7 #, EUE, 8 rd tbg, (260 total
jts), F Nipple set at 8423'

CIBP @ 8530'

CIBP @ 8670'

CIBP @ 8820'

TD @ 9032'
PBTd @ 8520'

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
17-1/2"	13-3/8"	440 sx	790 cu.ft.	Surface
12-1/4"	9-5/8"	1050 sx	2705 cu.ft.	160' (temp)
7-7/8"	4-1/2"	1735 sx	2429 cu.ft.	3300' (CBL)

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSFER

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 R/C
⁴ API Number 30-039-29783	⁵ Pool Name BASIN MANCOS	⁶ Pool Code 97232
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 600

II. ¹⁰ Surface Location

UL or lot no. F	Section 11	Township 31N	Range 4W	Lot.Idn	Feet from the 2320'	North/South Line NORTH	Feet from the 2600'	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	Ea	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	PACER ENERGY MARKETING PO BOX 4470 TULSA, OK 74159	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G



IV. Well Completion Data

²¹ Spud Date 7/18/10	²² Ready Date 6/28/11	²³ TD 9032'	²⁴ PBDT	²⁵ Perforations 7445'8495	²⁶ DHC, MC AZT-
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13 3/8", 68#, L-80	533'	440 sx - surface		
12-1/4"	9 5/8", K-55, 36#	4513'	1050 sx - 160' TEMP SURV		
7-7/8"	4.5", 11.6#, p-110	9032'	1735 sx - 3300' CBL		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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:
Permit Supervisor

E-mail Address:
Larry.Higgins@williams.com

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

[Signature]
Deputy Oil & Gas Inspector,
District #3
JUL 14 2011

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SUBMIT IN
DUPLICATE

OCT 11 2011

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

(See other instructions on
reverseside)

Farmington Field Office
Bureau of Land Management

LEASE DESIGNATION AND LEASE NO
NMSF-078888

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT

1a	TYPE OF WELL	OIL WELL	X GAS WELL	DRY	OTHER			
b	TYPE OF COMPLETION	X 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: 2320' FNL & 2600' FWL, SEC 11, T31N, R4W At top production interval reported below Same At total depth:							
14	PERMIT NO	DATE ISSUED	12	COUNTY OR	13	STATE		
				Rio Arriba		New Mexico		
15	DATE SPUDDED 7-18-10	16	DATE T D REACHED 9-6-10	17	DATE COMPLETED (READY TO PRODUCE) 10-5-11	18	ELEVATIONS (DK, RKB, RT, GR, ETC)* 7018' GR	
20	TOTAL DEPTH, 9032' MD	21	PLUG BACK T D, MD & TVD 8520' MD	22	IF MULTICOMP, HOW MANY 2	23	INTERVALS DRILLED BY	
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Basin Mancos: 7515'-7445'						25	WAS DIRECTIONAL SURVEY MADE no
26	TYPE ELECTRIC AND OTHER LOGS RUN Run 1 - Array Compensated Resistivity, Spectral Density/Dual Spaced Neutral, GR wave sonic Run 2 - Array Compensated Resistivity, Spectral Density/Dual Spaced Neutral, GR wave sonic, Compensated Spectral Natural GR, Extended Range Micro Imager CBL						27	WAS WELL CORED yes

28 CASING REPORT (Report all strings set in well)							AMOUNT PULLED
CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD			
13-3/8", L-80	68#	533'	17-1/2"	440 SX - SURFACE			64 bbls
9 5/8", K-55	36#	4513'	12-1/4"	1050 SX - 160' (temp)			
4 1/2", P-110	11.6#	9032'	7-7/8"	1735 SX - 3300' (CBL)			

29 LINER RECORD				30 TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/4", 4 7#, N-80, EUE 8rd	8455'	none

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7515'-7445'	7500# 100 mesh followed with 100,400# mesh Ottawa
7590'-7795'	7640# 100 mesh PSA followed with 144,840# 30/70 mesh PSA
7865'-8045'	7500# 100 mesh followed with 149,100# 30/70 mesh PSA
8160'-8280'	7600# 100 mesh Brady followed with 140,400# 30/50 mesh Brady
8460'-8495'	5020# 100 mesh white followed with 25,000# 30/70 brown

MC 5th stage - 24, 0 34" holes

MC 4th Stage - 42, 0 34" holes

MC 3rd Stage - 42, 0 34" holes

MC 2nd Stage - 30, 0 34" holes

MC 1st Stage - 24, 0.34" holes



33 PRODUCTION	
Flowing	
DATE OF FIRST PRODUCTION 6-28-11	PRODUCTION METHOD (Flowing gas lift, pumping-size and type of pump)
DATE OF TEST	TESTED
CHOKE SIZE	PROD'N FOR TEST PERIOD
OIL - BBL	GAS - MCF
WATER - BBL	GAS - MCF
FLOW TBG PRESS	CASING PRESSURE
CALCULATED 24-HOUR RATE	OIL - BBL
GAS - MCF	WATER - BBL
OIL GRAVITY-API (CORR)	

producing

WATER-BBL

GAS-OIL RATIO

OCT 14 2011

FARMINGTON FIELD OFFICE
BY

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

TEST WITNESSED BY

NMOCD

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	5. Lease Serial No. SF-078888
2. Name of Operator Williams Production Company, LLC	6. If Indian, Allottee or Tribe Name
3a. Address PO Box 640 Aztec, NM 87410	7. If Unit of CA/Agreement, Name and/or No. Rosa Unit
3b. Phone No. (include area code) 505-634-4208	8. Well Name and No. Rosa Unit #600
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2320' FNL & 2600' FWL, sec 11, T31N, R4W	9. API Well No. 30-039-29783
	10. Field and Pool or Exploratory Area Blanco MV/Basin MC/Basin DK
	11. Country or Parish, State Rio Arriba

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

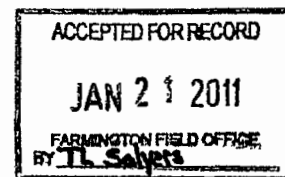
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other CBL/Csg Test
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams Production Drilled this well in late Summer 2010. Due to winter closure we will be unable to complete this well until the end of closure in the spring of 2011. As such, we moved on location to test casing and run CBL as follows:

10-27-10 - MIRU BWWC and run CBL, TOC @ 3300'

10-28-10 - Pressure test 4-1/2" casing to 1600 psi for 30 minutes, good test



* Chart attached

RCVD JAN 25 '11

OIL CONS. DIV.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Larry Higgins	Title Permit Supervisor
Signature <i>Larry Higgins</i>	Date 1-18-10

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

submit copy of logs to OGD

NMOCD

November 7, 2013

The Rosa Unit #601 Mancos Formation Well (non-commercial) is located 1475 feet from the North Line and 1220 feet from the East Line, Section 31 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 13, 2010, and completed in the Mancos formation on May 26, 2011. The Mancos formation was completed with a pre-perforated liner between the following depths: 6925' to 8320'. This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 4.5" tubing, the well tested good.

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
WPX Energy, San Juan Basin Unit

ROSA UNIT #601 | 1PDP | MANCOS | L6EF00JR2G | 62309548
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
SHRINK @M.SHRINK_PLANT	BASE
<u>LOSS NO</u>	

Production

CUMS 0.0 0.000	SJ_OP_POST
START 05/2011	SJ_OP_POST
GAS 257.2028 X M/D 7.000000 EXP B/1.8000 28.598077	SJ_OP_POST
" X X M/D 284 IMO EXP 7.000000	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMR	SJ_OP_POST
----------------------------	------------

Expenses

OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST
GTC/GAS @M.GATHERING_FEE X \$/M TO LIFE PC 0	SJ_OP_POST
FLU/REV @M.FLU_SHRINK X FRAC TO LIFE PC 0	SJ_OP_POST
ATX 5.478 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/OIL 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/NGL 3.75 X % TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	SJ_OP_POST
------------------------------	------------

Investments

CAPITAL 264.4737933 528.9475867 M\$G 05/2011 AD ESC INV	SJ_OP_POST
---	------------

Overlays

LOAD MP.GAS GAS 05/2011 10/2013 #	SJ_OP_POST
SIDFILE RI_TOTAL_BR	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #601
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

Date: 11/06/2013
 Time: 14:26:35
 DBS: SJB
 Settings: SETDATA_JM
 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	05/2011										
401 GAS	257.20 X M/D	7.00 EXP	B/1.8000 28.60	322.766	9/2017	28.5980	7823.	2802.			
402 "	X M/D	284.00 IMO	EXP 7.00	702.882	5/2041	7.0000	2802.	503.			
500 PRI/GAS	01/2006 8.697 6.687 6.097 5.567 #/M				4/2006						
501 "	X 5.687 4.757 5.077 5.967 #/M				8/2006						
502 "	X 6.642 5.424 6.714 7.135 #/M				12/2006						
503 "	01/2007 5.617 6.487 6.677 5.957 #/M				4/2007						
504 "	X 6.627 6.827 6.197 4.987 #/M				8/2007						
505 "	X 4.587 5.117 6.057 6.497 #/M				12/2007						
506 "	01/2008 6.377 7.277 8.087 8.277 #/M				4/2008						
507 "	X 9.427 9.846 11.356 7.637 #/M				8/2008						
508 "	X 6.427 4.267 2.837 4.627 #/M				12/2008						
509 "	01/2009 4.827 3.107 2.687 2.617 #/M				4/2009						
510 "	X 2.497 2.647 2.977 3.177 #/M				8/2009						
511 "	X 2.467 3.417 4.257 4.277 #/M				12/2009						
512 "	01/2010 5.72 5.32 4.64 3.77 #/M				4/2010						
513 "	X 3.80 3.69 4.28 4.08 #/M				8/2010						
514 "	X 3.20 3.56 2.98 4.12 #/M				12/2010						
515 "	01/2011 3.884 4.084 3.651 3.868 #/M				4/2011						
516 "	X 4.025 4.044 4.124 4.143 #/M				8/2011						
517 "	X 3.735 3.510 3.382 3.287 #/M				12/2011						
518 "	01/2012 4.86 4.86 4.86 4.86 #/M				4/2012						
519 "	X 4.86 4.86 4.86 4.86 #/M				8/2012						
520 "	X 4.86 4.86 4.86 4.86 #/M				12/2012						
521 "	01/2013 3.68 3.68 3.68 3.59 #/M				4/2013						
522 "	X 3.59 3.59 3.59 3.59 #/M				8/2013						
523 "	X 3.59 3.59 4.32 4.32 #/M				12/2013						
524 "	4.32 X S/M	TO LIFE	PC 0.00		8/2012		4.320	4.860			
600 OPC/T	1629.00 X S/M	TO LIFE	PC 0.00		5/2041		1629.000	1629.000			
601 GTC/GAS	0.50 X S/M	TO LIFE	PC 0.00		5/2041		0.503	0.503			
602 FLU/REV	0.05 X FRAC	TO LIFE	PC 0.00		5/2041		0.050	0.050			
603 ATX	5.48 X %	TO LIFE	PC 0.00		5/2041		0.055	0.055			
604 STX/GAS	3.75 X %	TO LIFE	PC 0.00		5/2041		0.037	0.037			
605 STX/OIL	3.75 X %	TO LIFE	PC 0.00		5/2041		0.037	0.037			
606 STX/NGL	3.75 X %	TO LIFE	PC 0.00		5/2041		0.037	0.037			
705 LSE/WI	1.0000 D FRAC	TO LIFE	FLAT 0.00		5/2041		1.000	1.000			
720 NET/OIL	0.8200 D FRAC	TO LIFE	FLAT 0.00		5/2041		0.820	0.820			
740 NET/GAS	0.8200 D FRAC	TO LIFE	FLAT 0.00		5/2041		0.820	0.820			

OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
900 GAS	05/2011 4093.06 5528.55 6389.9 0.14 6865.95 #			22.878	9/2011			
901 "	X 10486.66 8590.5 3671.85 7714.99 4225.04 6761.42 #			64.328	3/2012			
902 "	X 5448.94 5542.65 3569.21 6003.66 5064.46 5292.28 #			95.249	9/2012			
903 "	X 5805.55 4967.71 4932.19 4265.06 3681.73 5641.58 #			124.543	3/2013			
904 "	X 2294.99 4380.44 267.02 112.68 1.8 0 #			131.600	9/2013			
905 S /92	S/95 X FRAC	TO LIFE	DIV 146.00		5/2041			
906 S /89	0.50 X FRAC	TO LIFE	MUL 92.00		5/2041			
907 S /89	1.02 X FRAC	TO LIFE	MUL 89.00		5/2041			
908 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00		5/2041			
909 S /88	0.05 X FRAC	TO LIFE	MUL 92.00		5/2041			
910 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00		5/2041			
911 S /196	S/196 X FRAC	TO LIFE	MUL 88.00		5/2041			

INVESTMENTS	Tangible Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	264.47 528.95 M&G	05/2011 AD	ESC INV	793.421	5/2011	0	793.4	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU 1.02
 202 WELLS 0.00 1.00
 203 SHRINK 0.88
 204 CUMO, MB 0.00 CUMG, MMF 0.00 CUMI, MB
 250 LOSS NO

PROJECT RUN SETTINGS

Base Date : 05/2011 Time Frames : 8,99*12,4
 P.W. Date : 05/2011 Primary PW% : 10.0 Discount Freq. : MID
 Report Date : 05/2011
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = SJ_OP_POST
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #601
 Field: BASIN
 Cnty: RIO ARriba St: NM
 Reservoir: MANCOS
 Operator: WPX

DATE : 11/06/2013
 TIME : 14:26:35
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

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

EFFECTIVE DATE: 05/2011

--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
12-2011	0.000	45.627		0.000	32.924		0.00	2.952	1.0	0.000	97.181	97.181
12-2012	0.000	65.328		0.000	47.141		0.00	4.063	1.0	0.000	191.520	191.520
12-2013	0.000	33.123		0.000	23.901		0.00	3.057	1.0	0.000	73.074	73.074
12-2014	0.000	45.885		0.000	33.111		0.00	3.546	1.0	0.000	117.413	117.413
12-2015	0.000	40.892		0.000	29.507		0.00	3.546	1.0	0.000	104.636	104.636
12-2016	0.000	37.175		0.000	26.825		0.00	3.546	1.0	0.000	95.124	95.124
12-2017	0.000	34.272		0.000	24.731		0.00	3.546	1.0	0.000	87.697	87.697
12-2018	0.000	31.847		0.000	22.981		0.00	3.546	1.0	0.000	81.491	81.491
12-2019	0.000	29.617		0.000	21.372		0.00	3.546	1.0	0.000	75.786	75.786
12-2020	0.000	27.544		0.000	19.876		0.00	3.546	1.0	0.000	70.481	70.481
12-2021	0.000	25.616		0.000	18.485		0.00	3.546	1.0	0.000	65.548	65.548
12-2022	0.000	23.823		0.000	17.191		0.00	3.546	1.0	0.000	60.959	60.959
12-2023	0.000	22.155		0.000	15.987		0.00	3.546	1.0	0.000	56.692	56.692
12-2024	0.000	20.604		0.000	14.868		0.00	3.546	1.0	0.000	52.724	52.724
12-2025	0.000	19.162		0.000	13.827		0.00	3.546	1.0	0.000	49.033	49.033
12-2026	0.000	17.821		0.000	12.859		0.00	3.546	1.0	0.000	45.601	45.601
12-2027	0.000	16.573		0.000	11.959		0.00	3.546	1.0	0.000	42.409	42.409
12-2028	0.000	15.413		0.000	11.122		0.00	3.546	1.0	0.000	39.440	39.440
12-2029	0.000	14.334		0.000	10.344		0.00	3.546	1.0	0.000	36.679	36.679
12-2030	0.000	13.331		0.000	9.620		0.00	3.546	1.0	0.000	34.112	34.112
S TOT	0.000	580.143		0.000	418.631		0.00	3.530	1.0	0.000	1477.598	1477.598
AFTER	0.000	21.123		0.000	15.242		0.00	3.546	1.0	0.000	54.051	54.051
TOTAL	0.000	601.266		0.000	433.873		0.00	3.530	1.0	0.000	1531.649	1531.649

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				10.0%	
	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\$
12-2011	8.768	39.162	0.000	49.251	264.474	528.948	0.000	793.421	-744.171	-745.711
12-2012	17.280	60.154	0.000	114.086	0.000	0.000	0.000	0.000	114.086	-643.631
12-2013	6.593	38.671	0.000	27.809	0.000	0.000	0.000	0.000	27.809	-621.011
12-2014	10.594	47.026	0.000	59.793	0.000	0.000	0.000	0.000	59.793	-576.795
12-2015	9.441	44.036	0.000	51.159	0.000	0.000	0.000	0.000	51.159	-542.403
12-2016	8.583	41.810	0.000	44.732	0.000	0.000	0.000	0.000	44.732	-515.066
12-2017	7.913	40.072	0.000	39.713	0.000	0.000	0.000	0.000	39.713	-493.002
12-2018	7.353	38.619	0.000	35.519	0.000	0.000	0.000	0.000	35.519	-475.063
12-2019	6.838	37.284	0.000	31.664	0.000	0.000	0.000	0.000	31.664	-460.524
12-2020	6.359	36.043	0.000	28.079	0.000	0.000	0.000	0.000	28.079	-448.803
12-2021	5.914	34.888	0.000	24.745	0.000	0.000	0.000	0.000	24.745	-439.413
12-2022	5.500	33.814	0.000	21.645	0.000	0.000	0.000	0.000	21.645	-431.946
12-2023	5.115	32.816	0.000	18.761	0.000	0.000	0.000	0.000	18.761	-426.063
12-2024	4.757	31.887	0.000	16.080	0.000	0.000	0.000	0.000	16.080	-421.478
12-2025	4.424	31.023	0.000	13.586	0.000	0.000	0.000	0.000	13.586	-417.957
12-2026	4.114	30.220	0.000	11.266	0.000	0.000	0.000	0.000	11.266	-415.302
12-2027	3.826	29.473	0.000	9.109	0.000	0.000	0.000	0.000	9.109	-413.351
12-2028	3.559	28.778	0.000	7.103	0.000	0.000	0.000	0.000	7.103	-411.968
12-2029	3.309	28.132	0.000	5.238	0.000	0.000	0.000	0.000	5.238	-411.041
12-2030	3.078	27.531	0.000	3.503	0.000	0.000	0.000	0.000	3.503	-410.477
S TOT	133.317	731.438	0.000	612.843	264.474	528.948	0.000	793.421	-180.579	-410.477
AFTER	4.877	46.858	0.000	2.316	0.000	0.000	0.000	0.000	2.316	-410.143
TOTAL	138.194	778.296	0.000	615.158	264.474	528.948	0.000	793.421	-178.263	-410.143

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #601
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

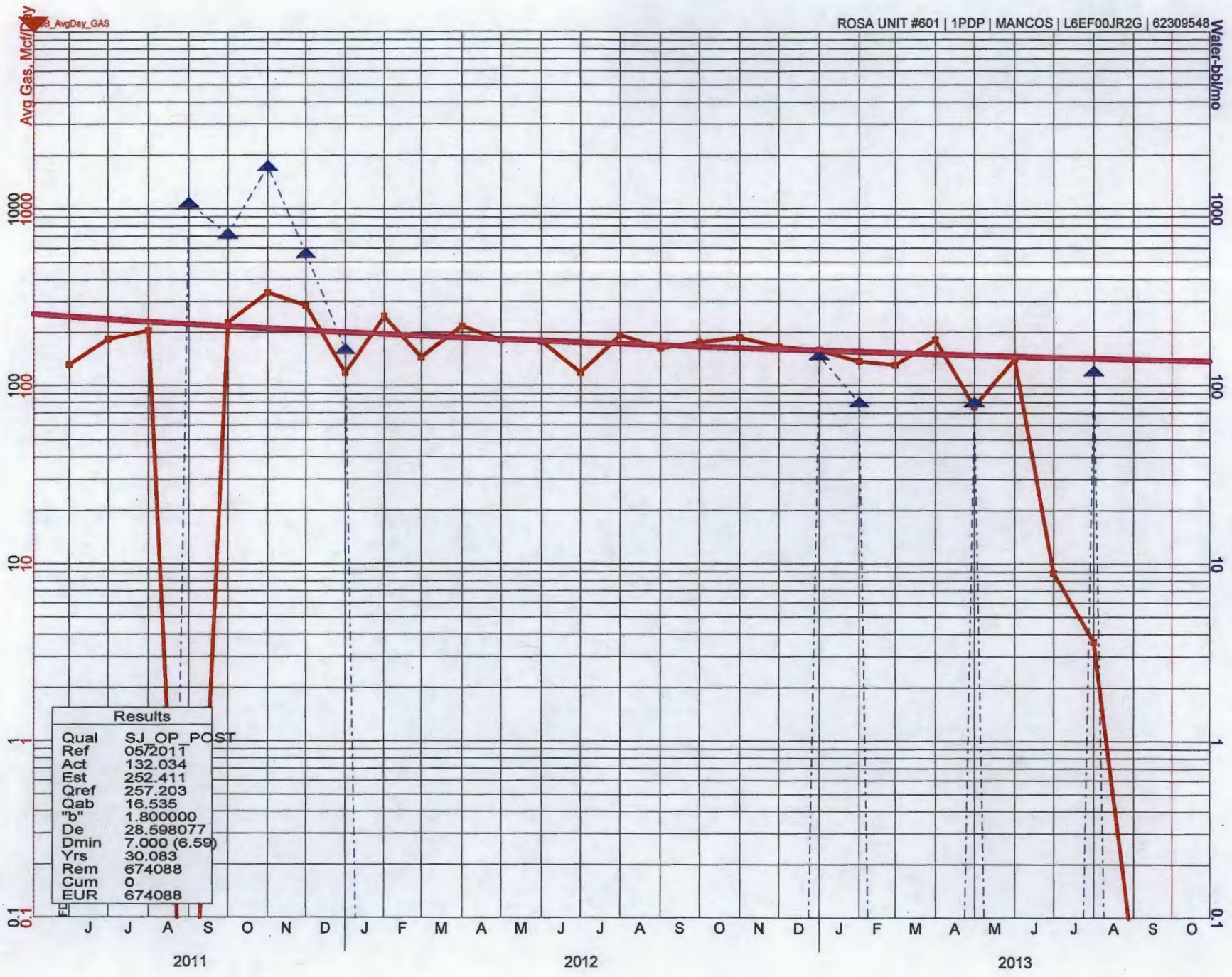
DATE : 11/06/2013
 TIME : 14:26:35
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

AFTER TAX ECONOMICS

EFFECTIVE DATE: 05/2011

--END-- MO-YEAR	TAXABLE CASH FLOW M\$-----	DEPRECIATION M\$-----	DEPLETION M\$-----	INTANG. EXPENSED M\$-----	INTEREST PAID & CAP M\$-----	TAXABLE INCOME M\$-----	TAX CREDIT M\$-----	TAXES PAYABLE M\$-----	CASH FLOW ATAK M\$-----	10.0% CUM. DISC ATAK M\$-----
12-2011	49.251	25.196	0.000	528.948	0.000	-504.893	0.000	-196.908	-547.263	-554.960
12-2012	114.086	55.778	0.000	0.000	0.000	58.308	0.000	22.740	91.345	-473.228
12-2013	27.809	52.428	0.000	0.000	0.000	-24.618	0.000	-9.601	37.410	-442.797
12-2014	59.793	37.441	0.000	0.000	0.000	22.353	0.000	8.718	51.076	-405.028
12-2015	51.159	26.756	0.000	0.000	0.000	24.403	0.000	9.517	41.642	-377.034
12-2016	44.732	23.600	0.000	0.000	0.000	21.132	0.000	8.241	36.490	-354.734
12-2017	39.713	23.609	0.000	0.000	0.000	16.104	0.000	6.281	33.432	-336.159
12-2018	35.519	19.668	0.000	0.000	0.000	15.851	0.000	6.182	29.337	-321.342
12-2019	31.664	0.000	0.000	0.000	0.000	31.664	0.000	12.349	19.315	-312.473
12-2020	28.079	0.000	0.000	0.000	0.000	28.079	0.000	10.951	17.128	-305.324
12-2021	24.745	0.000	0.000	0.000	0.000	24.745	0.000	9.651	15.095	-299.596
12-2022	21.645	0.000	0.000	0.000	0.000	21.645	0.000	8.442	13.203	-295.041
12-2023	18.761	0.000	0.000	0.000	0.000	18.761	0.000	7.317	11.444	-291.452
12-2024	16.080	0.000	0.000	0.000	0.000	16.080	0.000	6.271	9.809	-288.655
12-2025	13.586	0.000	0.000	0.000	0.000	13.586	0.000	5.298	8.287	-286.508
12-2026	11.266	0.000	0.000	0.000	0.000	11.266	0.000	4.394	6.873	-284.888
12-2027	9.109	0.000	0.000	0.000	0.000	9.109	0.000	3.553	5.557	-283.698
12-2028	7.103	0.000	0.000	0.000	0.000	7.103	0.000	2.770	4.333	-282.854
12-2029	5.238	0.000	0.000	0.000	0.000	5.238	0.000	2.043	3.195	-282.289
12-2030	3.503	0.000	0.000	0.000	0.000	3.503	0.000	1.366	2.137	-281.945
S TOT	612.843	264.474	0.000	528.948	0.000	-180.579	0.000	-70.426	-110.153	-281.945
AFTER	2.316	0.000	0.000	0.000	0.000	2.316	0.000	0.903	1.412	-281.741
TOTAL	615.158	264.474	0.000	528.948	0.000	-178.263	0.000	-69.523	-108.741	-281.741

BTAX RATE OF RETURN (PCT)	0.00	ATAK RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	21.42	ATAK PAY OUT YEARS	21.42	---- RATE-OF-RETURN VS. BONUS TABLE ----			
BTAX PAYOUT YEARS (DISC)	21.42	ATAK PAY OUT YEARS (DISC)	21.42	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	0.78	ATAK NET INCOME/INVEST	0.86	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST(DISC)	0.48	ATAK NET INCOME/INVEST(DISC)	0.64	%-----	M\$-----	M\$-----	M\$-----
				0.00	-178.3	-108.7	-178.3
				5.00	-320.6	-213.0	-294.5
				10.00	-410.1	-281.7	-357.9
				15.00	-470.4	-330.1	-399.2
				20.00	-513.2	-366.0	-428.9
				25.00	-544.9	-393.7	-451.4
				30.00	-569.3	-415.9	-469.3
				35.00	-588.6	-434.0	-484.0
				40.00	-604.3	-449.3	-496.3
				50.00	-628.3	-473.6	-515.9
				60.00	-645.8	-492.3	-531.1
				70.00	-659.1	-507.3	-543.3
				80.00	-669.7	-519.7	-553.4
				90.00	-678.4	-530.2	-562.0
				100.00	-685.6	-539.2	-569.5
PRODUCTION START DATE	05/2011	PROJECT LIFE (YEARS)	21.42				
		DISCOUNT - RATE (PCT)	10.00				
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	3.264				
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	3.546				
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)	601.266				
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	601.266				
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)	82.000	FINAL NET GAS (PCT)	82.000				



ROSA UNIT #601

BASIN MANCOS/BASIN DK

Location: 1475° FNL & 1220° FEL
SE/4 NE/4 Section 31 (H), T31N, R4W
Rio Arriba Co., NM
Elevation: 6963' GR
API: 30-039-30916

Spud Date 09/13/2010
Completed 08/23/2011
ID'd:
Mancos 05/26/2011
Dakota 05/05/2011

<u>Tops</u>	<u>Depth</u>
Ojo Alamo	3209'
Kirtland	3325'
Pictured Cliffs	3786'
Cliff House	6000'
Point Lookout	6217'
Mancos	6738'
Graneros	8328'
Dakota	8467'

MC 5th: 6925'-7025' (33, .34" holes) Frac w/7500#
100 mesh PSA followed w/99,900# 30/70 PSA

MC 4th: 7470'-7630' (39, .34" holes) Frac w/ 7500#
100 mesh Ottawa followed w/139,400# 40/70
Ottawa

MC 3rd: 7705'-7855' (42, .34" holes) Frac w/ 7660#
100 mesh followed w/130,050# 30/70 PSA

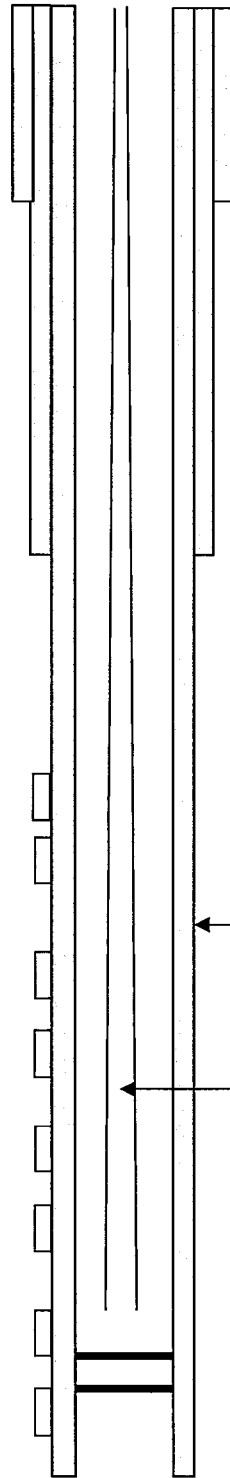
MC 2nd: 7985'-8095' (36, .34" holes) Frac
w/7640# 100 mesh followed w/61,545# 30/50
Ottawa

MC 1st: 8280'-8320' (27, .34" holes) Frac w/5200#
100 mesh followed w/80,200# 30/50 uniman sand

Dakota 3rd: 8395'-8430' (24, .34" holes)
No stimulation – pressured out @6950#

Dakota 2nd: 8468'-8540' (48, .34" holes) Frac
w/4961# 100 mesh sand followed w/101,529# 40/70
Ottawa sand

Dakota 1st stage: 8683'-8722' (27, .34" holes)
No stimulation



← 8 jts of 10-3/4", 40.5#, J-55, ST&C csg.
Set @ 353'
Hole Size: 14-3/4"

← 96 jts of 7-5/8", 26.4#, J-55, LT&C csg. Set @
4262'.
Hole Size: 9-7/8"

← 218 jts of 4-1/2", 11.6#, P-110, LT&C csg.
Landed @ 8805'. Float collar @ 8779'.
Marker jt @ 6230'
Hole Size: 6-3/4"

← Land well @ 8524 KB as follows, one 1/2 MS-Exp chk, one
jt 2.375" N-80, 4.7#, EUE 8rnd tbg, one 1.78" F-nple,
274 jts of 2.375" N-80, 4.7#, EUE 8rnd tbg (275 total jts), F-
nple set @ 8493'

CIBP left in hole @ 8630'
CIBP left in hole @ 8660'

TD @ 8807'
PBTD @ 8610'

HOLE SIZE	CASING	CEMENT	VOLUME	CMT TOP
14-3/4"	10-3/4"	290 sx	522 cu.ft.	Surface
9-7/8"	7-5/8"	750 sx	1866 cu.ft.	Surface
6-3/4"	4-1/2"	615 sx	861 cu.ft.	4450' (CBL)

LH 08/24/11

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 30-039-30916	⁵ Pool Name BASIN MANCOS	⁶ Pool Code 97232
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 601

II. ¹⁰ Surface Location

UI or lot no. H	Section 31	Township 31N	Range 4W	Lot.Idn	Feet from the 1475'	North/South Line NORTH	Feet from the 1220'	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	Ea	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	PACER ENERGY MARKETING PO BOX 4470 TULSA, OK 74159	O
025244	WILLIAMS FIELD SERVICES P O BOX 645 TULSA OK 74102	G
		RCUD MAY 27 '11

OIL CONS. DIV.

IV. Well Completion Data

²¹ Spud Date 9/13/10	²² Ready Date 5/26/11	²³ TD 8807' MD	²⁴ PBTD	²⁵ Perforations 6925'-8320'	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-55	353'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	4262'	650 sx - surface		
6-3/4"	4.5", 11.6#, P-110 P-10	8805'	615 sx - 4450' CBL		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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:

Permit Supervisor

E-mail Address:

larry.higgins@williams.com

OIL CONSERVATION DIVISION

Approved by:

Title:

SUPERVISOR DISTRICT # 3

Approval Date:

JUN 06 2011

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
SUBMIT IN
DUPLICATE
AUG 24 2011
(See other instructions on
reverse side)
Farmington Field Office
Bureau of Land Management

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

WELL COMPLETION OR RECOMPLETION REPORT

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: 1475' FNL & 1220' FEL, SEC 31, T31N, R4W At top production interval reported below Same At total depth:								
14	PERMIT NO	DATE ISSUED			12	COUNTY OR	13	STATE	
15	DATE SPUDDED 9-13-10	16	DATE T.D. REACHED 10-18-10	17	DATE COMPLETED (READY TO PRODUCE) 8-23-11	18	ELEVATIONS (DK, RKB, RT, GR, ETC)* 6963' GR	19	ELEVATION CASINGHEAD
20	TOTAL DEPTH 8807' MD	21	PLUG, BACK T.D., MD & TVD 8610' MD	22	IF MULTICOMP. HOW MANY 2	23	INTERVALS DRILLED BY	ROTARY TOOLS x	CABLE TOOLS
24	PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Blanco Mancos 6925'-8320'					25	WAS DIRECTIONAL SURVEY MADE no		
26	TYPE ELECTRIC AND OTHER LOGS RUN Run 1 - Array Compensated Resistivity, Spectral Density/Dual Spaced Neutral, GR., Run 2 - Wave Sonic, Compensated Spectral Natural Gamma Ray. 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#	353'	14-3/4"	290 SX - SURFACE	5066k.
7 5/8", J-55	26.4#	4262'	9-7/8"	750 SX - Surface	10866k.
4 1/2", P-110	11.6#	8805'	6-3/4"	615 SX - 4450'	

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#, N-80, EUE 8rd	8524'	none

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6925'-7025'	Frac with 7500# 100 mesh PSA followed with 99,900# 30/70 mesh PSA
7470'-7630'	Frac with 7500# 100 mesh Ottawa sand followed with 139,400# 40/70 mesh Ottawa sand
7705'-7855'	Frac with 7660# 100 mesh sand followed with 130,050# 30/70 mesh PSA
7985'-8095'	Frac with 7640# 100 mesh followed with 61,545# 30/50 mesh Ottawa.
8280'-8320'	Frac with 5200# 100 mesh sand followed with 80,200# 30/50 mesh Uniman sand

33 PRODUCTION Commingled with Dakota per DHC-3636-AZ

DATE OF FIRST PRODUCTION 5-26-11		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR ST) producing	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	

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

TEST WITNESSED BY



MC 5th Stage - 33, 0.34" holes

MC 4th stage - 39, 0.34" holes

MC 3rd Stage - 42, 0.34" holes

MC 2nd Stage - 36, 0.34" holes

MC 1st Stage - 27, 0.34" holes

NMOCD

ACCEPTED FOR RECORD
AUG 26 2011
FARMINGTON FIELD OFFICE
by [signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. SF-078777
2. Name of Operator Williams Production Company, LLC		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 640 Aztec, NM 87410		7. If Unit of CA/Agreement, Name and/or No. Rosa Unit
3b. Phone No. (include area code) 505-634-4208		8. Well Name and No. Rosa Unit #601
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1475' FNL & 1220' FEL, sec 31, T31N, R4W		9. API Well No. 30-039-30916
		10. Field and Pool or Exploratory Area Blanco MV/Basin MC/Basin DK
		11. Country or Parish, State Rio Arriba

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

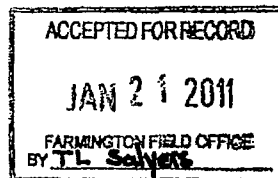
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other CBL/Csg Test
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Williams Production Drilled this well in late Summer 2010. Due to winter closure we will be unable to complete this well until the end of closure in the spring of 2011. As such, we moved on location to test casing and run CBL as follows:

10-27-10 - MIRU BWWC and run CBL, TOC @ 4450' ✓

10-28-10 - Pressure test 4-1/2" casing to 1600 psi for 30 minutes, good test ✓



* Chart attached

RCUD JAN 25 '11
OIL CONS. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Larry Higgins		Title Permit Supervisor
Signature <i>Larry Higgins</i>		Date 1-18-10

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Submit copy of logs to OCD

NMOCD

November 7, 2013

The Rosa Unit #602 Mancos Formation Well (non-commercial) is located 1200 feet from the North Line and 1715 feet from the West Line, Section 27 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on June 10, 2010, and completed in the Mancos formation on October 27, 2010. The Mancos formation was completed with a pre-perforated liner between the following depths: 8055' to 8390'. This well has a 2.375" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 2.375" tubing, the well tested good.

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 solid horizontal line.

Marcia Brueggenjohann
Manager, Reservoir Engineering
WPX Energy, San Juan Basin Unit

ROSA UNIT #602 | 1PDP | MANCOS | L5RJB8JK4L | 62309552
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
SHRINK @M.SHRINK_PLANT	BASE
<u>LOSS NO</u>	

Production

CUMS 0.0 0.000	SJ_OP_POST
START 11/2010	SJ_OP_POST
GAS 310.1586 X M/D 7.000000 EXP B/1.8000 73.195603	SJ_OP_POST
" X X M/D 269 IMO EXP 7.000000	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMR	SJ_OP_POST
----------------------------	------------

Expenses

OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST
GTC/GAS @M.GATHERING_FEE X \$/M TO LIFE PC 0	SJ_OP_POST
FLU/REV @M.FLU_SHRINK X FRAC TO LIFE PC 0	SJ_OP_POST
ATX 5.478 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/OIL 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/NGL 3.75 X % TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	SJ_OP_POST
------------------------------	------------

Investments

CAPITAL 264.4737933 528.9475867 M\$G 11/2010 AD ESC INV	SJ_OP_POST
---	------------

Overlays

LOAD MP.GAS GAS 11/2010 10/2013 #	SJ_OP_POST
SIDFILE RI_TOTAL_BR	SJ_OP_POST

PropID: ,RSV CAT: 1PDP
 Well Name: ROSA UNIT #602
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

Date: 11/06/2013
 Time: 14:25:07
 DBS: SJB
 Settings: SETDATA_JM
 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	11/2010											
401 GAS	310.16	X	M/D	7.00	EXP	B/1.8000	73.20	152.216	5/2018	73.1956	9434.	860.
402 "	X	X	M/D	269.00	IMO	EXP	7.00	266.474	10/2040	7.0000	860.	169.
500 PRI/GAS	01/2006	8.697	6.687	6.097	5.567	#/M			4/2006			
501 "	X	5.687	4.757	5.077	5.967	#/M			8/2006			
502 "	X	6.642	5.424	6.714	7.135	#/M			12/2006			
503 "	01/2007	5.617	6.487	6.677	5.957	#/M			4/2007			
504 "	X	6.627	6.827	6.197	4.987	#/M			8/2007			
505 "	X	4.587	5.117	6.057	6.497	#/M			12/2007			
506 "	01/2008	6.377	7.277	8.087	8.277	#/M			4/2008			
507 "	X	9.427	9.846	11.356	7.637	#/M			8/2008			
508 "	X	6.427	4.267	2.837	4.627	#/M			12/2008			
509 "	01/2009	4.827	3.107	2.687	2.617	#/M			4/2009			
510 "	X	2.497	2.647	2.977	3.177	#/M			8/2009			
511 "	X	2.467	3.417	4.257	4.277	#/M			12/2009			
512 "	01/2010	5.72	5.32	4.64	3.77	#/M			4/2010			
513 "	X	3.80	3.69	4.28	4.08	#/M			8/2010			
514 "	X	3.20	3.56	2.98	4.12	#/M			12/2010			
515 "	01/2011	3.884	4.084	3.651	3.868	#/M			4/2011			
516 "	X	4.025	4.044	4.124	4.143	#/M			8/2011			
517 "	X	3.735	3.510	3.382	3.287	#/M			12/2011			
518 "	01/2012	4.86	4.86	4.86	4.86	#/M			4/2012			
519 "	X	4.86	4.86	4.86	4.86	#/M			8/2012			
520 "	X	4.86	4.86	4.86	4.86	#/M			12/2012			
521 "	01/2013	3.68	3.68	3.68	3.59	#/M			4/2013			
522 "	X	3.59	3.59	3.59	3.59	#/M			8/2013			
523 "	X	3.59	3.59	4.32	4.32	#/M			12/2013			
524 "	4.32	X	\$/M	TO	LIFE	PC	0.00		8/2012		4.320	4.860
600 OPC/T	1010.00	X	\$/M	TO	LIFE	PC	0.00		10/2040		1010.000	1010.000
601 GTC/GAS	0.50	X	\$/M	TO	LIFE	PC	0.00		10/2040		0.503	0.503
602 FLU/REV	0.05	X	FRAC	TO	LIFE	PC	0.00		10/2040		0.050	0.050
603 ATX	5.48	X	%	TO	LIFE	PC	0.00		10/2040		0.055	0.055
604 STX/GAS	3.75	X	%	TO	LIFE	PC	0.00		10/2040		0.037	0.037
605 STX/OIL	3.75	X	%	TO	LIFE	PC	0.00		10/2040		0.037	0.037
606 STX/NGL	3.75	X	%	TO	LIFE	PC	0.00		10/2040		0.037	0.037
705 LSE/WI	1.0000	D	FRAC	TO	LIFE	FLAT	0.00		10/2040		1.000	1.000
720 NET/OIL	0.8200	D	FRAC	TO	LIFE	FLAT	0.00		10/2040		0.820	0.820
740 NET/GAS	0.8200	D	FRAC	TO	LIFE	FLAT	0.00		10/2040		0.820	0.820

OVERLAYS	Beginning, Ending Rates			Schedule Limit		Method & Value		Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
900 GAS	11/2010	4719.14	283.25	2243.22	2057.27	1762.43	0 #	11.065	4/2011			
901 "	X	6409.73	1503.88	5194.86	9068.77	6296.5	5708.17 #	45.247	10/2011			
902 "	X	5063.99	4536.06	3982.87	3736.81	3699.54	3311.61 #	69.578	4/2012			
903 "	X	3216.27	2843.82	2732.92	2706.63	2114.17	2302.4 #	85.494	10/2012			
904 "	X	1818.52	1418.92	1892.92	1195.11	1838.64	1449.13 #	95.108	4/2013			
905 "	X	1631.74	1473.26	1902.17	1091.97	863.36	#	102.070	9/2013			
906 S /92	S/95	X	FRAC	TO	LIFE	DIV	146.00		10/2040			
907 S /89	0.50	X	FRAC	TO	LIFE	MUL	92.00		10/2040			
908 S /89	1.01	X	FRAC	TO	LIFE	MUL	89.00		10/2040			
909 S /196	S/196	X	FRAC	TO	LIFE	MINUS	89.00		10/2040			
910 S /88	0.05	X	FRAC	TO	LIFE	MUL	92.00		10/2040			
911 S /88	1.00	X	FRAC	TO	LIFE	MINUS	88.00		10/2040			
912 S /196	S/196	X	FRAC	TO	LIFE	MUL	88.00		10/2040			

INVESTMENTS	Tangible Intang Units		Invest. Point	Method & Value		Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	264.47	528.95 M\$G	11/2010 AD	ESC	INV	793.421	11/2010	0	793.4	0.0

MISCELLANEOUS DATA PARAMETERS

201 BTU	1.01				
202 WELLS	0.00	1.00			
203 SHRINK	0.88				
204 CUMO, MB	0.00	CUMG, MMF	0.00	CUML, MB	
250 LOSS	NO				

PROJECT RUN SETTINGS

Base Date : 11/2010 Time Frames : 2,99*12,10
 P.W. Date : 11/2010 Primary PW% : 10.0 Discount Freq. : MID
 Report Date : 11/2010
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = SJ_OP_POST
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #602
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

DATE : 11/06/2013
 TIME : 14:25:07
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

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

EFFECTIVE DATE: 11/2010

--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
12-2010	0.000		5.002		0.000		3.610		0.00	2.307	1.0	0.000	8.329	8.329
12-2011	0.000		49.845		0.000		35.968		0.00	3.036	1.0	0.000	109.202	109.202
12-2012	0.000		33.884		0.000		24.451		0.00	4.031	1.0	0.000	98.556	98.556
12-2013	0.000		17.578		0.000		12.684		0.00	2.960	1.0	0.000	37.543	37.543
12-2014	0.000		15.371		0.000		11.092		0.00	3.518	1.0	0.000	39.022	39.022
12-2015	0.000		13.474		0.000		9.723		0.00	3.518	1.0	0.000	34.208	34.208
12-2016	0.000		12.116		0.000		8.743		0.00	3.518	1.0	0.000	30.760	30.760
12-2017	0.000		11.083		0.000		7.998		0.00	3.518	1.0	0.000	28.138	28.138
12-2018	0.000		10.261		0.000		7.405		0.00	3.518	1.0	0.000	26.050	26.050
12-2019	0.000		9.542		0.000		6.886		0.00	3.518	1.0	0.000	24.225	24.225
12-2020	0.000		8.874		0.000		6.404		0.00	3.518	1.0	0.000	22.529	22.529
12-2021	0.000		8.253		0.000		5.955		0.00	3.518	1.0	0.000	20.952	20.952
12-2022	0.000		7.675		0.000		5.538		0.00	3.518	1.0	0.000	19.485	19.485
12-2023	0.000		4.227		0.000		3.050		0.00	3.518	1.0	0.000	10.730	10.730
12-2024														
12-2025														
12-2026														
12-2027														
12-2028														
12-2029														
S TOT	0.000		207.188		0.000		149.507		0.00	3.409	1.0	0.000	509.728	509.728
AFTER	0.000		0.000		0.000		0.000		0.00	0.000	1.0	0.000	0.000	0.000
TOTAL	0.000		207.188		0.000		149.507		0.00	3.409	1.0	0.000	509.728	509.728

--END-- MO-YEAR	--OPERATIONS, M\$--				--CAPITAL COSTS, M\$--						10.0%	
	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\$
12-2010	0.752	4.743	0.000	2.835	264.474	528.948	0.000	793.421	-790.587		-790.609	
12-2011	9.853	40.851	0.000	58.498	0.000	0.000	0.000	0.000	58.498		-735.712	
12-2012	8.892	33.134	0.000	56.529	0.000	0.000	0.000	0.000	56.529		-687.486	
12-2013	3.387	22.193	0.000	11.963	0.000	0.000	0.000	0.000	11.963		-678.208	
12-2014	3.521	21.306	0.000	14.195	0.000	0.000	0.000	0.000	14.195		-668.199	
12-2015	3.086	20.173	0.000	10.949	0.000	0.000	0.000	0.000	10.949		-661.182	
12-2016	2.775	19.361	0.000	8.623	0.000	0.000	0.000	0.000	8.623		-656.157	
12-2017	2.539	18.744	0.000	6.855	0.000	0.000	0.000	0.000	6.855		-652.526	
12-2018	2.350	18.252	0.000	5.448	0.000	0.000	0.000	0.000	5.448		-649.902	
12-2019	2.186	17.823	0.000	4.216	0.000	0.000	0.000	0.000	4.216		-648.056	
12-2020	2.033	17.423	0.000	3.073	0.000	0.000	0.000	0.000	3.073		-646.833	
12-2021	1.890	17.052	0.000	2.009	0.000	0.000	0.000	0.000	2.009		-646.106	
12-2022	1.758	16.707	0.000	1.020	0.000	0.000	0.000	0.000	1.020		-645.771	
12-2023	0.968	9.596	0.000	0.166	0.000	0.000	0.000	0.000	0.166		-645.720	
12-2024												
12-2025												
12-2026												
12-2027												
12-2028												
12-2029												
S TOT	45.991	277.357	0.000	186.380	264.474	528.948	0.000	793.421	-607.041		-645.720	
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		-645.720	
TOTAL	45.991	277.357	0.000	186.380	264.474	528.948	0.000	793.421	-607.041		-645.720	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #602
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

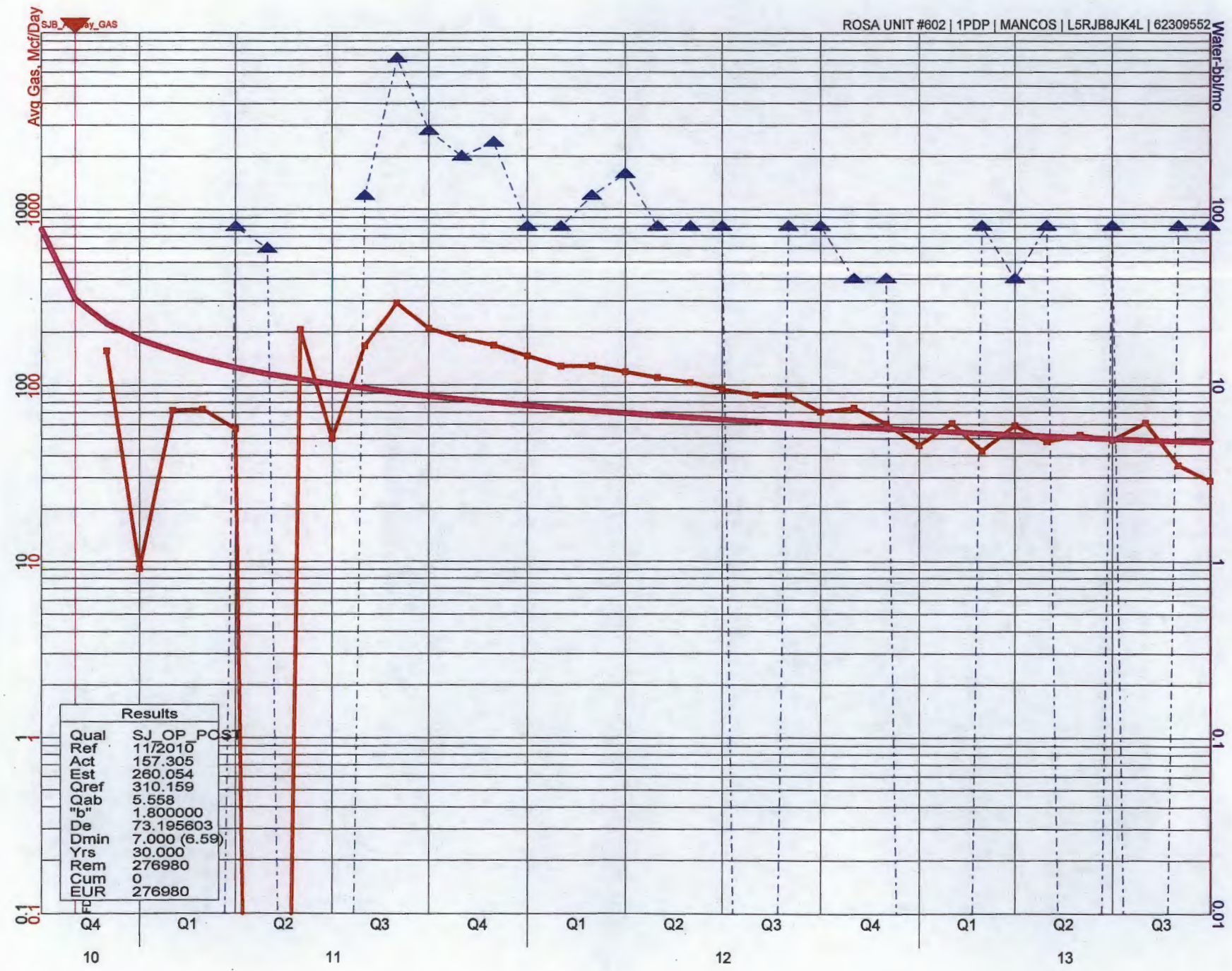
DATE : 11/06/2013
 TIME : 14:25:07
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

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

EFFECTIVE DATE: 11/2010

--END--	TAXABLE	DEPRECIATION	DEPLETION	INTANG. EXPENSED	INTEREST PAID & CAP	TAXABLE INCOME	TAX CREDIT	TAXES PAYABLE	CASH FLOW ATAX	10.0% CUM. DISC ATAX
MO-YEAR	CASH FLOW	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----	M\$-----
12-2010	2.835	6.299	0.000	528.948	0.000	-532.412	0.000	-207.641	-582.946	-584.611
12-2011	58.498	42.289	0.000	0.000	0.000	16.209	0.000	6.321	52.177	-535.647
12-2012	56.529	61.684	0.000	0.000	0.000	-5.155	0.000	-2.010	58.540	-485.705
12-2013	11.963	44.053	0.000	0.000	0.000	-32.090	0.000	-12.515	24.478	-466.721
12-2014	14.195	31.464	0.000	0.000	0.000	-17.268	0.000	-6.735	20.930	-451.964
12-2015	10.949	23.613	0.000	0.000	0.000	-12.664	0.000	-4.939	15.888	-441.781
12-2016	8.623	23.595	0.000	0.000	0.000	-14.972	0.000	-5.839	14.463	-433.353
12-2017	6.855	23.613	0.000	0.000	0.000	-16.758	0.000	-6.536	13.391	-426.260
12-2018	5.448	7.864	0.000	0.000	0.000	-2.416	0.000	-0.942	6.390	-423.183
12-2019	4.216	0.000	0.000	0.000	0.000	4.216	0.000	1.644	2.572	-422.057
12-2020	3.073	0.000	0.000	0.000	0.000	3.073	0.000	1.198	1.874	-421.311
12-2021	2.009	0.000	0.000	0.000	0.000	2.009	0.000	0.784	1.226	-420.867
12-2022	1.020	0.000	0.000	0.000	0.000	1.020	0.000	0.398	0.622	-420.663
12-2023	0.166	0.000	0.000	0.000	0.000	0.166	0.000	0.065	0.101	-420.632
12-2024										
12-2025										
12-2026										
12-2027										
12-2028										
12-2029										
S TOT	186.380	264.474	0.000	528.948	0.000	-607.041	0.000	-236.746	-370.295	-420.632
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-420.632
TOTAL	186.380	264.474	0.000	528.948	0.000	-607.041	0.000	-236.746	-370.295	-420.632

BTAX RATE OF RETURN (PCT)	0.00	ATAx RATE OF RETURN (PCT)	0.00	PRESENT WORTH PROFILE AND			
BTAX PAYOUT YEARS	12.75	ATAx PAY OUT YEARS	12.75	---- RATE-OF-RETURN VS. BONUS TABLE ----			
BTAX PAYOUT YEARS (DISC)	12.75	ATAx PAY OUT YEARS (DISC)	12.75	P.W.	B.F.I.T.	A.F.I.T.	A.F.I.T.
BTAX NET INCOME/INVEST	0.23	ATAx NET INCOME/INVEST	0.53	FACTOR	WORTH	WORTH	BONUS
BTAX NET INCOME/INVEST(DISC)	0.19	ATAx NET INCOME/INVEST(DISC)	0.47	%-----	M\$-----	M\$-----	M\$-----
PRODUCTION START DATE	11/2010	PROJECT LIFE (YEARS)	12.75	0.00	-607.0	-370.3	-607.0
		DISCOUNT - RATE (PCT)	10.00	5.00	-629.0	-398.7	-588.0
				10.00	-645.7	-420.6	-580.2
				15.00	-658.9	-438.1	-577.4
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.246	20.00	-669.5	-452.3	-576.9
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	3.518	25.00	-678.3	-464.1	-577.4
GROSS OIL WELLS	0.	GROSS GAS WELLS	1.	30.00	-685.7	-474.1	-578.6
				35.00	-692.0	-482.6	-579.9
CUMULATIVE OIL (MBBL)	0.000	CUMULATIVE GAS (MMF)	0.000	40.00	-697.5	-490.0	-581.4
REMAINING OIL (MBBL)	0.000	REMAINING GAS (MMCF)	207.188	50.00	-706.6	-502.1	-584.3
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	207.188	60.00	-713.8	-511.8	-586.9
				70.00	-719.7	-519.7	-589.2
INITIAL WI (PCT)	100.000	FINAL WI (PCT)	100.000	80.00	-724.6	-526.3	-591.3
INITIAL NET OIL (PCT)	0.000	FINAL NET OIL (PCT)	0.000	90.00	-728.8	-532.0	-593.1
INITIAL NET GAS (PCT)	82.000	FINAL NET GAS (PCT)	82.000	100.00	-732.4	-536.9	-594.8



In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 27 2011

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
TO DRILL" for permit for such proposals

Use "APPLICATION Field Office
Bureau of Land Management

Lease Designation and Serial No.
NMSF-078894

If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

1. Type of Well Oil Well ☒ Gas Well ☐ Other ☐	8. Well Name and No. Rosa Unit #602
2. Name of Operator WILLIAMS PRODUCTION COMPANY	9. API Well No. 30-039-30914
3. Address and Telephone No. PO BOX 640 Aztec, NM 87410-0640 634-4208	10. Field and Pool, or Exploratory Area Blanco MV/Basin MC/Basin DK
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHLO 1200' FNL & 1715' FWL BHL: 1346' FNL & 1801' FWL Sec. 27, T31N, R4W	11. County or Parish, State Rio Arriba, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent	Abandonment
X Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	X Other <u>Completion to additional</u>
	<u>MC and P&A DK</u>
	Change of Plans
	New Construction
	Non-Routine Fracturing
	Water Shut-Off
	Conversion to Injection
	Dispose Water
	Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

4/1/11- MIRU AWS #656 for completion operations.

4/4/11 - TOOH with tubing string.

4/5/11- Set CIBP @ 8040', did not hold. Set another CIBP @ 7980'. RDMO AWS #656.

4/6/11 - RU BWL. Perforate MC 3rd stage, 7765' to 7935', with 45, .34" holes. RD BWL.

4/11/11 - Frac MC 3rd stage with 14,186# Ottawa 100 mesh sand, follow with 42,982# 30/50 Ottawa sand, prop, follow w/ 99,532# 20/40 Ottawa sand.

4/12/11-4/6/11- Flow and test MC 3rd stage.

4/18/11- 4/26/211- MIRU AWS #471. C/O and flow test MC 3rd stage.

4/27/11- RU BWL. Set CIBP @ 7740'. Perforate MC 4th stage 7470' to 7650', with 51, .34" holes. RD BWL.

ACCEPTED FOR RECORD

AUG 03 2011

FARMINGTON FIELD OFFICE
BY scv

DIST. 3

RCVD AUG 4 '11

OIL CONS. DIV.

14. I hereby certify that the foregoing is true and correct

Signed Ben Mitchell
Ben Mitchell

Title Regulatory Specialist

Date 7/21/10

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

NMOCD 14

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 30-039-30914	⁵ Pool Name BASIN MANCOS	⁶ Pool Code 97232
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 602

II. ¹⁰ Surface Location

UL or lot no. C	Section 27	Township 31N	Range 4W	Lot.Idn	Feet from the 1200'	North/South Line NORTH	Feet from the 1715'	East/West line WEST	County Rio Arriba
--------------------	---------------	-----------------	-------------	---------	------------------------	---------------------------	------------------------	------------------------	----------------------

¹¹ Bottom Hole Location

UL or lot no. F	Section 27	Township 31N	Range 4W	Lot Idn	Feet from the 1346'	North/South line NORTH	Feet from the 1801'	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

OIL CONS. DIV.

DIST 3

IV. Well Completion Data

²¹ Spud Date 6/10/10	²² Ready Date 10/27/10	²³ TD 8885' MD	²⁴ PBDT 8862'	²⁵ Perforations 8055'-8390'	²⁶ DHC, MC AZT-
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12 1/4"	10-3/4", 40.5#, J-55	317'	470 sx - surface		
9 7/8"	7 5/8", 26.4#, J-55	4358'	910 sx - surface		
6-3/4"	4 1/2", 11.6#, P-110	8884'	615 sx - 4450' CBL		
	2.375, 4.7#, J-55	8054'			

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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:

Permit Supervisor

E-mail Address:

Larry.higgins@williams.com

Date:

Phone:

11-5-10

OIL CONSERVATION DIVISION

Approved by:

Charles R. ...

11-15-10

Title:

SUPERVISOR DISTRICT # 3

Approval Date:

NOV 15 2010

NEED DHC Before Commence

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

RECEIVED

NOV 01 2010

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

Farmington Field Office
Bureau of Land Management

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: 1200' FNL & 1715' FWL, SEC 27, T31N, R4W

At top production interval reported below : 1346' FNL & 1801' FWL, SEC 27, T31N, R4W

At total depth:

5. LEASE DESIGNATION AND LEASE NO.
NMSF-078894

6. IF INDIAN, ALLOTTEE OR

7. UNIT AGREEMENT NAME

Rosa Unit

NMMN-78407X

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #602

9. API WELL NO.

30-039-30914 -0052

10. FIELD AND POOL, OR WILDCAT

Basin Mancos

RCVD NOV 5 '10

11. SEC., T., R., M., OR BLOCK AND
SURVEY OF AREA
Sec 27, T31N, R4W
NMS. DIV.

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

15. DATE
SPUDDED
6/10/10

16. DATE T.D.
REACHED
7-12-10

17. DATE COMPLETED (READY TO PRODUCE)
10/27/10

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
7028' GR

19. ELEVATION CASINGHEAD

DIST. 3

20. TOTAL DEPTH
8885' MD

21. PLUG, BACK T.D., MD & TVD
8862' MD

22. IF MULTICOMP.,
HOW MANY
2

23. INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

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

Basin Mancos 8055' - 8390' Note: CIBP set @ 8272' only perfs 8055'-8165' producing at this time

25. WAS DIRECTIONAL SURVEY MADE

Yes ✓

26. TYPE ELECTRIC AND OTHER LOGS RUN Run 1 - Array Compensated Resistivity, Spectral Density/Dual Spaced Neutral, GR.,
Run 2 - Wave Sonic, Compensated Spectral Natural Gamma Ray. Run 3 - (cased hole) Reservoir Monitor Tool

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#	317'	12 1/4"	290 SX - SURFACE	
7 5/8", J-55	26.4#	4358'	10 3/4"	910 SX - 500'	
4 1/2", P-110	11.6#	8885'	6-3/4"	615 SX - 4450'	

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	8054'	none

MC 2nd Stage - 36, 0.34" holes

MC 1st Stage - 24, 0.34" holes

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

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

8055' - 8165'

Frac with 15,026# 100 mesh, 45,414# 30/50 Ottawa, & 90,744# 20/40 Ottawa.

8355' - 8390'

Frac with 4,390# 100 mesh, followed with 84,450# 40/70 Ottawa,

33. PRODUCTION CIBP set at 8272' isolating lower Mancos and Dakota

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

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

TEST WITNESSED BY:

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 H. ...

NMOCB

FILE PERMIT SUPV

DATE 11-1-10

ACCEPTED FOR RECORD

NOV 02 2010

FARMINGTON FIELD OFFICE
BY J. Salyers

ROSA UNIT #602

BLANCO MV/BASIN MC/ BASIN DK

Spud Date 6/10/10
Completed

Surface Location:
1200' FNL & 1715' FWL,
Sec 27, T31N, R4W
BHL:
1346' FNL & 1801' FWL,
Sec 27, T31N, R4W
Rio Arriba, NM

Elevation: 7028' GR
API #: 30-039-30914

<u>Tops</u>	<u>Depth</u>
Lewis	4248'
Cliff House	6073
Point Lookout	6289'
Mancos	6788
Graneros	8395'
Dakota	8535'

RCVD NOV 5 '10
OIL CONS. DIV.
DIST. 3

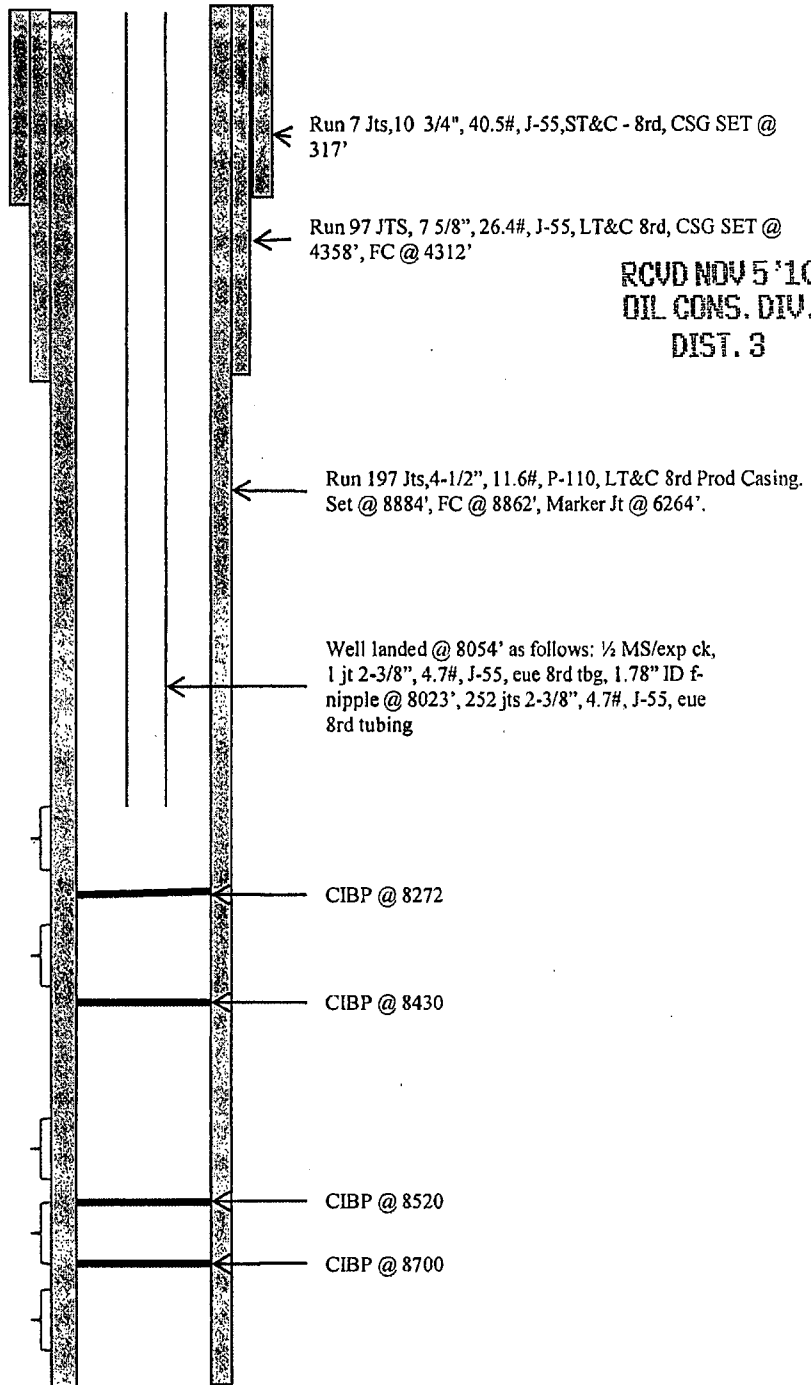
2nd Stage MC: 8055'-8165' (36, 0.34" holes) Frac
with 15,026# 100 mesh followed with 45,414#
30/50 mesh ottawa followed with 90,744# 20/40
mesh ottawa

1st Stage MC: 8355'-8390' (24, 0.34" holes) Frac
with 4,390# 100 mesh followed with 84,450# 40/70
mesh ottawa

3rd Stage DK: 8440'-8490' (33, 0.34" holes)
Frac with 3,604# 100 mesh followed with 77,696#
30/50 mesh ottawa

2nd Stage DK: 8536'-8609' (36, 0.34" holes)
Frac with 3,224# 100 mesh followed with 96,011#
40/70 mesh ottawa

1st Stage DK: 8724'-8772' (18, 0.34" holes)
No Frac



TD @ 8885
PBTd @ 8862'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
12 1/4"	10 3/4", 40.5#	290 sxs	522 cu.ft.	surface
10 3/4"	7 5/8", 26.4#	910 sxs	2297 cu.ft.	500' - Temp
6-3/4"	4 1/2", 11.6#	615 sxs	861 cu.ft.	4450' - CBL

November 15, 2013

The Rosa Unit #630 Mancos Formation Well (non-commercial) is located 2480 feet from the North Line and 2230 feet from the East Line, Section 7 Township 31 North, Range 4 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spud on September 11, 2009, and completed in the Mancos formation on October 30, 2010. The Mancos formation was completed with a pre-perforated liner between the following depths: 7000' to 7890'. This well has a 4.5" tubing string. On October 28, 2010, the well was tested and after flowing for 1/2 hour on the 2.375" tubing, the well tested good.

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

Marcia Brueggenjohann
Manager, Reservoir Engineering
WPX Energy, San Juan Basin Unit

ROSA UNIT #630 | 1PDP | MANCOS | K64DNBNKPY | 62264201
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 0.000	SJ_OP_POST
START 09/2010	SJ_OP_POST
GAS 144.454 X M/D 7.000000 EXP B/1.8000 41.276130	SJ_OP_POST
" X X M/D 277 IMO EXP 7.000000	SJ_OP_POST

Prices

SIDFILE SJB_JCM_07ACT_COMR	SJ_OP_POST
----------------------------	------------

Expenses

OPC/T @M.LIFTING_COST X \$/M TO LIFE PC 0	SJ_OP_POST
GTC/GAS @M.GATHERING_FEE X \$/M TO LIFE PC 0	SJ_OP_POST
FLU/REV @M.FLU_SHRINK X FRAC TO LIFE PC 0	SJ_OP_POST
ATX 5.478 X % TO LIFE PC 0	SJ_OP_POST
STX/GAS 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/OIL 3.75 X % TO LIFE PC 0	SJ_OP_POST
STX/NGL 3.75 X % TO LIFE PC 0	SJ_OP_POST

Ownership

NET @M.WI @M.NRI @M.NRI FRAC	SJ_OP_POST
------------------------------	------------

Investments

CAPITAL 235.649 471.297 M\$G 09/2010 AD ESC INV	SJ_OP_POST
---	------------

Overlays

LOAD MP.GAS GAS 09/2010 10/2013 #	SJ_OP_POST
SIDFILE RI_TOTAL_BR	SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #630
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

Date: 11/06/2013
 Time: 14:23:39
 DBS: SJB
 Settings: SETDATA_JM
 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	09/2010										
401 GAS	144.45 X M/D	7.00 EXP	B/1.8000 41.28	150.975	8/2017	41.2761	4394.	1092.			
402 "	X M/D	277.00 IMO	EXP 7.00	297.770	9/2040	7.0000	1092.	205.			
500 PRI/GAS	01/2006 8.697 6.687 6.097 5.567 #/M										
501 "	X 5.687 4.757 5.077 5.967 #/M										
502 "	X 6.642 5.424 6.714 7.135 #/M										
503 "	01/2007 5.617 6.487 6.677 5.957 #/M										
504 "	X 6.627 6.827 6.197 4.987 #/M										
505 "	X 4.587 5.117 6.057 6.497 #/M										
506 "	01/2008 6.377 7.277 8.087 8.277 #/M										
507 "	X 9.427 9.846 11.356 7.637 #/M										
508 "	X 6.427 4.267 2.837 4.627 #/M										
509 "	01/2009 4.827 3.107 2.687 2.617 #/M										
510 "	X 2.497 2.647 2.977 3.177 #/M										
511 "	X 2.467 3.417 4.257 4.277 #/M										
512 "	01/2010 5.72 5.32 4.64 3.77 #/M										
513 "	X 3.80 3.69 4.28 4.08 #/M										
514 "	X 3.20 3.56 2.98 4.12 #/M										
515 "	01/2011 3.884 4.084 3.651 3.868 #/M										
516 "	X 4.025 4.044 4.124 4.143 #/M										
517 "	X 3.735 3.510 3.382 3.287 #/M										
518 "	01/2012 4.86 4.86 4.86 4.86 #/M										
519 "	X 4.86 4.86 4.86 4.86 #/M										
520 "	X 4.86 4.86 4.86 4.86 #/M										
521 "	01/2013 3.68 3.68 3.68 3.59 #/M										
522 "	X 3.59 3.59 3.59 3.59 #/M										
523 "	X 3.59 3.59 4.32 4.32 #/M										
524 "	4.32 X \$/M	TO LIFE	PC 0.00		8/2012		4.320	4.860			
600 OPC/T	975.00 X \$/M	TO LIFE	PC 0.00		9/2040		975.000	975.000			
601 GTC/GAS	0.54 X \$/M	TO LIFE	PC 0.00		9/2040		0.540	0.540			
602 FLU/REV	0.06 X FRAC	TO LIFE	PC 0.00		9/2040		0.057	0.057			
603 ATX	5.48 X %	TO LIFE	PC 0.00		9/2040		0.055	0.055			
604 STX/GAS	3.75 X %	TO LIFE	PC 0.00		9/2040		0.037	0.037			
605 STX/OIL	3.75 X %	TO LIFE	PC 0.00		9/2040		0.037	0.037			
606 STX/NGL	3.75 X %	TO LIFE	PC 0.00		9/2040		0.037	0.037			
705 LSE/WI	1.0000 D FRAC	TO LIFE	FLAT 0.00		9/2040		1.000	1.000			
720 NET/OIL	0.8200 D FRAC	TO LIFE	FLAT 0.00		9/2040		0.820	0.820			
740 NET/GAS	0.8200 D FRAC	TO LIFE	FLAT 0.00		9/2040		0.820	0.820			

OVERLAYS	Beginning, Ending Rates	Schedule Limit	Method & Value	Ultimate @	End Pt.	Init.Deff	Init. Rate	Final Rate
900 GAS	09/2010 502 5977 10316 8368 0 0 2744 4850 223 7371 #			40.351	6/2011			
901 "	X 5878 4631 3698 3461 1765 4.56 0 0 5648 3606 1892 #			70.935	6/2012			
902 "	X 1525 2333 2219 20 1640 1848 0 0 3532 2758 2305 1656 #			90.771	6/2013			
903 "	X 1468 1656 928 #			94.823	9/2013			
904 S /92	S/95 X FRAC	TO LIFE	DIV 146.00		9/2040			
905 S /89	0.54 X FRAC	TO LIFE	MUL 92.00		9/2040			
906 S /89	1.02 X FRAC	TO LIFE	MUL 89.00		9/2040			
907 S /196	S/196 X FRAC	TO LIFE	MINUS 89.00		9/2040			
908 S /88	0.06 X FRAC	TO LIFE	MUL 92.00		9/2040			
909 S /88	1.00 X FRAC	TO LIFE	MINUS 88.00		9/2040			
910 S /196	S/196 X FRAC	TO LIFE	MUL 88.00		9/2040			

INVESTMENTS	Tangible Intang Units	Invest. Point	Method & Value	Total T&I	Month	Risk Inv.	Tot. T&I&R	Esc. T&I&R
800 CAPITAL	235.65 471.30 M\$G	09/2010 AD	ESC INV	706.946	9/2010	0	706.9	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 : 09/2010 Time Frames : 4,99*12,8
 P.W. Date : 09/2010 Primary PW% : 10.0 Discount Freq. : MID
 Report Date : 09/2010
 Qualifiers : Prod = SJ_OP_POST Price = SJ_OP_POST Cost = SJ_OP_POST Owner = SJ_OP_POST
 Title = BASE Misc = BASE Invest = SJ_OP_POST Overlay = SJ_OP_POST

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #630
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

DATE : 11/06/2013
 TIME : 14:23:39
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

RESERVES AND ECONOMICS

EFFECTIVE DATE: 09/2010

--END-- MO-YEAR	---GROSS PRODUCTION---			---NET PRODUCTION---			---PRICES---		NO. OF WELLS	-----OPERATIONS, M\$-----		
	OIL,	MBBL	GAS, MCF	OIL, MBL	GAS, MCF		OIL \$/B	GAS \$/M		OIL REVENUE	GAS REVENUE	TOTAL REVENUE
12-2010	0.000		25.163	0.000	20.634		0.00	2.701	1.0	0.000	55.741	55.741
12-2011	0.000		34.626	0.000	28.393		0.00	3.075	1.0	0.000	87.318	87.318
12-2012	0.000		20.731	0.000	16.999		0.00	3.993	1.0	0.000	67.874	67.874
12-2013	0.000		19.106	0.000	15.667		0.00	2.917	1.0	0.000	45.704	45.704
12-2014	0.000		17.695	0.000	14.510		0.00	3.480	1.0	0.000	50.489	50.489
12-2015	0.000		15.803	0.000	12.959		0.00	3.480	1.0	0.000	45.090	45.090
12-2016	0.000		14.388	0.000	11.798		0.00	3.480	1.0	0.000	41.051	41.051
12-2017	0.000		13.278	0.000	10.888		0.00	3.480	1.0	0.000	37.885	37.885
12-2018	0.000		12.341	0.000	10.120		0.00	3.480	1.0	0.000	35.212	35.212
12-2019	0.000		11.477	0.000	9.411		0.00	3.480	1.0	0.000	32.747	32.747
12-2020	0.000		10.674	0.000	8.753		0.00	3.480	1.0	0.000	30.455	30.455
12-2021	0.000		9.927	0.000	8.140		0.00	3.480	1.0	0.000	28.323	28.323
12-2022	0.000		9.232	0.000	7.570		0.00	3.480	1.0	0.000	26.341	26.341
12-2023	0.000		8.586	0.000	7.040		0.00	3.480	1.0	0.000	24.497	24.497
12-2024	0.000		7.985	0.000	6.547		0.00	3.480	1.0	0.000	22.782	22.782
12-2025	0.000		7.426	0.000	6.089		0.00	3.480	1.0	0.000	21.187	21.187
12-2026	0.000		6.906	0.000	5.663		0.00	3.480	1.0	0.000	19.704	19.704
12-2027	0.000		4.860	0.000	3.985		0.00	3.480	1.0	0.000	13.868	13.868
12-2028												
12-2029												
S TOT	0.000		250.204	0.000	205.167		0.00	3.345	1.0	0.000	686.268	686.268
AFTER	0.000		0.000	0.000	0.000		0.00	0.000	1.0	0.000	0.000	0.000
TOTAL	0.000		250.204	0.000	205.167		0.00	3.345	1.0	0.000	686.268	686.268

--END-- MO-YEAR	-----OPERATIONS, M\$-----				-----CAPITAL COSTS, M\$-----				CASH BTAX, M\$	10.0% 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			
12-2010	5.029	21.386	0.000	29.326	235.649	471.297	0.000	706.946	-677.620	-678.082	
12-2011	7.878	36.503	0.000	42.937	0.000	0.000	0.000	0.000	42.937	-638.424	
12-2012	6.124	27.640	0.000	34.110	0.000	0.000	0.000	0.000	34.110	-609.782	
12-2013	4.124	25.213	0.000	16.367	0.000	0.000	0.000	0.000	16.367	-597.288	
12-2014	4.555	24.785	0.000	21.148	0.000	0.000	0.000	0.000	21.148	-582.612	
12-2015	4.068	23.386	0.000	17.636	0.000	0.000	0.000	0.000	17.636	-571.487	
12-2016	3.704	22.339	0.000	15.008	0.000	0.000	0.000	0.000	15.008	-562.880	
12-2017	3.418	21.519	0.000	12.948	0.000	0.000	0.000	0.000	12.948	-556.129	
12-2018	3.177	20.826	0.000	11.209	0.000	0.000	0.000	0.000	11.209	-550.816	
12-2019	2.955	20.187	0.000	9.606	0.000	0.000	0.000	0.000	9.606	-546.677	
12-2020	2.748	19.593	0.000	8.114	0.000	0.000	0.000	0.000	8.114	-543.499	
12-2021	2.555	19.041	0.000	6.727	0.000	0.000	0.000	0.000	6.727	-541.103	
12-2022	2.377	18.527	0.000	5.437	0.000	0.000	0.000	0.000	5.437	-539.343	
12-2023	2.210	18.049	0.000	4.238	0.000	0.000	0.000	0.000	4.238	-538.096	
12-2024	2.056	17.604	0.000	3.122	0.000	0.000	0.000	0.000	3.122	-537.261	
12-2025	1.912	17.191	0.000	2.084	0.000	0.000	0.000	0.000	2.084	-536.754	
12-2026	1.778	16.807	0.000	1.120	0.000	0.000	0.000	0.000	1.120	-536.506	
12-2027	1.251	12.369	0.000	0.247	0.000	0.000	0.000	0.000	0.247	-536.456	
12-2028											
12-2029											
S TOT	61.919	382.965	0.000	241.384	235.649	471.297	0.000	706.946	-465.562	-536.456	
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-536.456	
TOTAL	61.919	382.965	0.000	241.384	235.649	471.297	0.000	706.946	-465.562	-536.456	

PropID: RSV CAT: 1PDP
 Well Name: ROSA UNIT #630
 Field: BASIN
 Cnty: RIO ARRIBA St: NM
 Reservoir: MANCOS
 Operator: WPX

DATE : 11/06/2013
 TIME : 14:23:39
 DBS : SJB
 SETTINGS : SETDATA_JM
 SCENARIO : SJB-OP-PostAudit

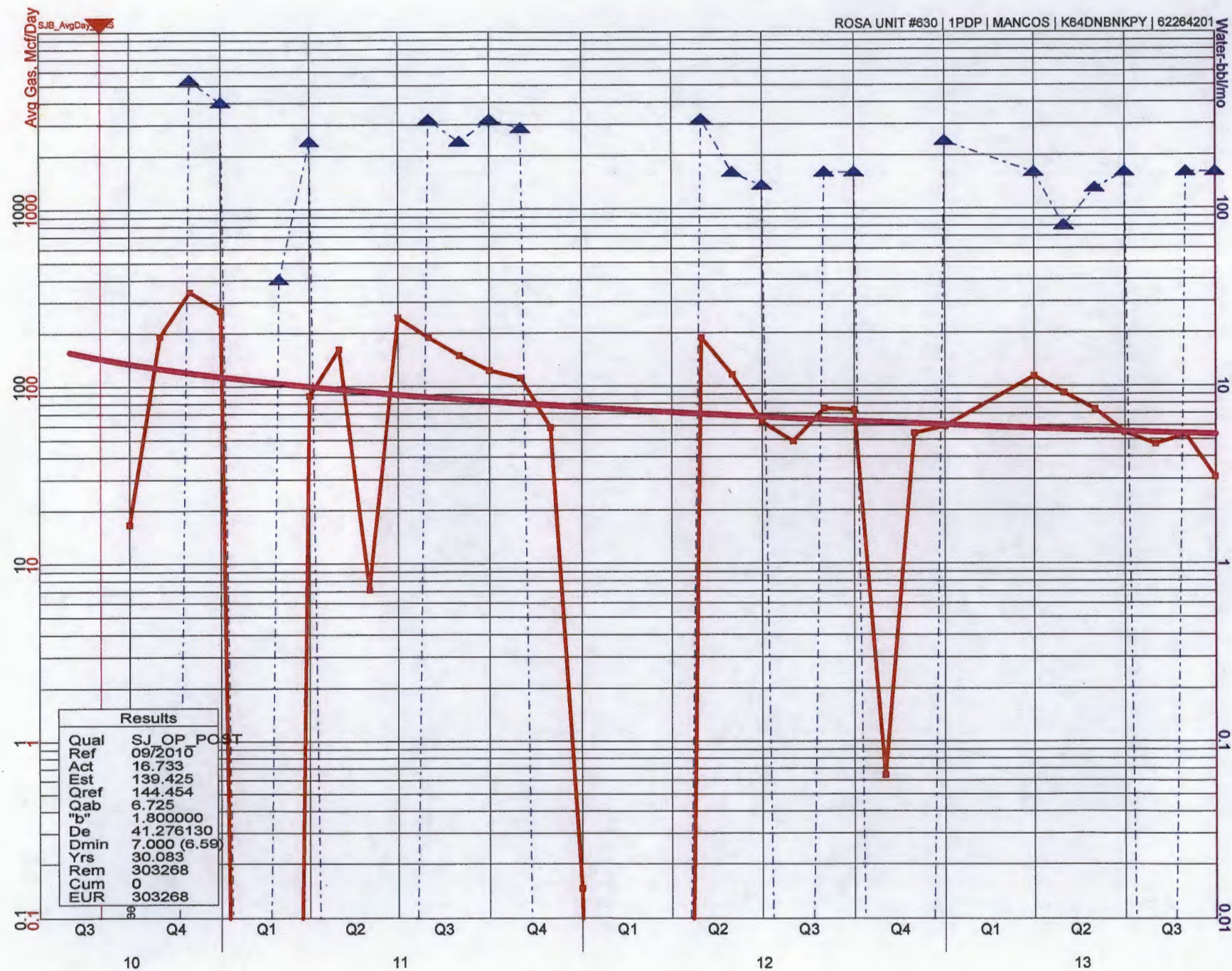
A F T E R T A X E C O N O M I C S

EFFECTIVE DATE: 09/2010

--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\$-----	10.0% CUM. DISC ATAX M\$-----
12-2010	29.326	11.225	0.000	471.297	0.000	-453.196	0.000	-176.746	-500.874	-504.121
12-2011	42.937	41.686	0.000	0.000	0.000	1.250	0.000	0.488	42.449	-464.913
12-2012	34.110	52.212	0.000	0.000	0.000	-18.102	0.000	-7.060	41.170	-430.344
12-2013	16.367	37.288	0.000	0.000	0.000	-20.920	0.000	-8.159	24.526	-411.622
12-2014	21.148	26.636	0.000	0.000	0.000	-5.488	0.000	-2.140	23.289	-395.461
12-2015	17.636	21.036	0.000	0.000	0.000	-3.400	0.000	-1.326	18.962	-383.499
12-2016	15.008	21.028	0.000	0.000	0.000	-6.020	0.000	-2.348	17.356	-373.545
12-2017	12.948	21.036	0.000	0.000	0.000	-8.088	0.000	-3.154	16.102	-365.150
12-2018	11.209	3.503	0.000	0.000	0.000	7.706	0.000	3.005	8.204	-361.261
12-2019	9.606	0.000	0.000	0.000	0.000	9.606	0.000	3.746	5.859	-358.737
12-2020	8.114	0.000	0.000	0.000	0.000	8.114	0.000	3.165	4.950	-356.798
12-2021	6.727	0.000	0.000	0.000	0.000	6.727	0.000	2.624	4.104	-355.336
12-2022	5.437	0.000	0.000	0.000	0.000	5.437	0.000	2.121	3.317	-354.263
12-2023	4.238	0.000	0.000	0.000	0.000	4.238	0.000	1.653	2.585	-353.502
12-2024	3.122	0.000	0.000	0.000	0.000	3.122	0.000	1.218	1.904	-352.992
12-2025	2.084	0.000	0.000	0.000	0.000	2.084	0.000	0.813	1.272	-352.683
12-2026	1.120	0.000	0.000	0.000	0.000	1.120	0.000	0.437	0.683	-352.532
12-2027	0.247	0.000	0.000	0.000	0.000	0.247	0.000	0.096	0.151	-352.501
12-2028										
12-2029										
S TOT	241.384	235.649	0.000	471.297	0.000	-465.562	0.000	-181.569	-283.993	-352.501
AFTER	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	-352.501
TOTAL	241.384	235.649	0.000	471.297	0.000	-465.562	0.000	-181.569	-283.993	-352.501

BTAX RATE OF RETURN (PCT)	0.00	ATAX RATE OF RETURN (PCT)	0.00
BTAX PAYOUT YEARS	17.08	ATAX PAY OUT YEARS	17.08
BTAX PAYOUT YEARS (DISC)	17.08	ATAX PAY OUT YEARS (DISC)	17.08
BTAX NET INCOME/INVEST	0.34	ATAX NET INCOME/INVEST	0.60
BTAX NET INCOME/INVEST (DISC)	0.24	ATAX NET INCOME/INVEST (DISC)	0.50
PRODUCTION START DATE	09/2010	PROJECT LIFE (YEARS)	17.08
		DISCOUNT - RATE (PCT)	10.00
INITIAL OIL PRICE (\$/B)	0.000	INITIAL GAS PRICE (\$/M)	2.415
MAXIMUM OIL PRICE (\$/B)	0.000	MAXIMUM GAS PRICE (\$/M)	3.480
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)	250.204
ULTIMATE OIL (MBBL)	0.000	ULTIMATE GAS (MMCF)	250.204
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)	82.000	FINAL NET GAS (PCT)	82.000

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	-465.6	-284.0	-465.6
5.00	-507.7	-323.8	-462.5
10.00	-536.5	-352.5	-466.4
15.00	-557.0	-374.1	-472.0
20.00	-572.3	-391.0	-477.8
25.00	-584.1	-404.5	-483.2
30.00	-593.5	-415.6	-488.2
35.00	-601.1	-424.9	-492.7
40.00	-607.4	-432.9	-496.7
50.00	-617.3	-445.8	-503.6
60.00	-624.7	-455.9	-509.2
70.00	-630.5	-464.1	-514.0
80.00	-635.2	-470.9	-518.1
90.00	-639.0	-476.7	-521.6
100.00	-642.3	-481.7	-524.8



In Lieu of
Form 3160
(June 1990)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 24 2011

FORM APPROVED
Budget Bureau No 1004-0135
Expires March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
TO DRILL" for permit for such proposals

Use APPLICATION
Farmington Field Office
Bureau of Land Management

Lease Designation and Serial No.
NMSF-078890

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Rosa

8. Well Name and No
Rosa Unit #630

9. API Well No.
30-039-29508

10. Field and Pool, or Exploratory Area
Blanco MV/Basin MC/Basin DK

11. County or Parish, State
Rio Arriba, NM

SUBMIT IN TRIPLICATE

1. Type of Well
Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
WILLIAMS PRODUCTION COMPANY

3. Address and Telephone No.
PO BOX 640 Aztec, NM 87410-0640 634-4208

4. Location of Well (Footage, Sec., T, R., M, or Survey Description)
Surface: 2480' FNL & 2230' FEL - BHL 2410' FNL & 2184' FEL, SEC 7, T31N, R4W

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
☒ Subsequent Report
Final Abandonment

TYPE OF ACTION

Abandonment
Recompletion
Plugging Back
Casing Repair
Altering Casing
☒ Other COMPLETION TO ADDITIONAL MC
& MV, AND P&A MV & DK

Change of Plans
New Construction
Non-Routine Fracturing
Water Shut-Off
Conversion to Injection
Dispose Water
Note Report results of multiple completion on
Well Completion or Recompletion Report and Log
form

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

4/8/11 - MIRU AWS #656 for completion operations.

4/11/11 - TOOH with tubing string.

4/12/11 - RU BWWC Set CIBP @ 6970'. Perf MC 5th stage, 6795' to 6925' with 39, 0 34" holes. RD BWWC & RD AWS #656.

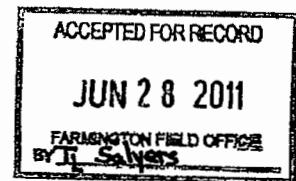
4/18/11 - Frac MC 5th stage with 14,946# 100 mesh, followed with 44,110 30/50 Ottawa sand, followed with 92,356# 20/40 Ottawa sand.

4/18/11 - 4/28/11 - Flow and test MC 5th stage.

4/28/11 - MIRU AWS #471

5/6/11 - RU BWWC Set CIBP @ 6170'. Perf MV, 5755' to 5880' with 40, 0.34" holes RD BWWC

RCVD JUL 1 '11
OIL CONS. DIV.
DIST. 3



14. I hereby certify that the foregoing is true and correct

Signed Heather Riley
Heather Riley

Title Regulatory Specialist, Sr.

Date 6/24/2011

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

1. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSFER

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 30-039-29508	⁵ Pool Name BASIN MANCOS	⁶ Pool Code 97232
⁷ Property Code 17033	⁸ Property Name ROSA UNIT	⁹ Well Number 630

II. ¹⁰ Surface Location

Ul or lot no. G	Section 7	Township 31N	Range 4W	Lot.Idn	Feet from the 2480	North/South Line NORTH	Feet from the 2230	East/West line EAST	County Rio Arriba
--------------------	--------------	-----------------	-------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

¹¹ Bottom Hole Location

UL or lot no G	Section 7	Township 31N	Range 4W	Lot Idn	Feet from the 2410	North/South line NORTH	Feet from the 2184	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 '10	

**OIL CONS. DIV.
DIST. 3**

IV. Well Completion Data

²¹ Spud Date 9-11-09	²² Ready Date 9/30/10	²³ TD 8466' MD	²⁴ PBTB	²⁵ Perforations 6795'-7890' MD	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-55	354'	290 sx - surface		
9-7/8"	7-5/8", 26.4#, J-55	3809'	640 sx - surface		
6-3/4"	4 1/2", 11.6#, P-110	8462'	610 sx - 3330' CBL		

VI. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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> Printed name: Larry Higgins Title: Permit Supervisor E-mail Address: larry.higgins@williams.com Date:	10-4-10 OIL CONSERVATION DIVISION Approved by: <i>Charles</i> 10-4-10 Title: SUPERVISOR DISTRICT # 3 Approval Date: OCT 04 2010
---	--

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-078890

6. IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

7. UNIT AGREEMENT NAME

Rosa Unit

NOV 02 2010

NMMN- 78407X

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

Farmington Field Office
Bureau of Land Management

8. FARM OR LEASE NAME, WELL NO.

Rosa Unit #630

3. ADDRESS AND TELEPHONE NO.

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

9. API WELL NO.

30-039-29508 - 0052

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

At Surface: 2480' FNL & 2230' FEL SEC 7 31N 4W

At top production interval reported below : 2410' FNL & 2184 FEL, SEC 7, T31N, R4W

At total depth:

10. FIELD AND POOL, OR WILDCAT
Basin Mancos

11. SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
SEC 7 31 N 4W

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

15. DATE
SPUDDED
9/11/09

16. DATE T.D.
REACHED
5/8/10

17. DATE COMPLETED (READY TO PRODUCE)
10/28/10

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6461' GR

19. ELEVATION CASINGHEAD

RCVD NOV 9 '10

20. TOTAL DEPTH,
8466' MD

21. PLUG, BACK T.D., MD & TVD
8435' MD

22. IF MULTICOMP.,
HOW MANY
2

23. INTERVALS
DRILLED BY

ROTARY TOOLS
x OIL

CABLE TOOLS
CONS. DIV.

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

Basin Mancos 7000' - 7890'

25. WAS DIRECTIONAL SURVEY MADE

Yes

DIST. 3

26. TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction Compensated GR-Density-Neutron(2) and Wave Sonic / 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", J-55	26.4#	3809'	9 7/8"	640 SX - SURFACE	
4 1/2", P-110	11.6#	8462'	6-3/4"	610 SX - 3330'	

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	7753'	none

30. TUBING RECORD

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7000' - 7195'	Frac w/ 14,383# 100 mesh sand followed w/44,353# 30/50 mesh Ottawa followed w/97,056# 20/40 mesh Ottawa
7280' - 7435'	Frac with 18,032# 100 mesh sand followed w/38,063# 30/50 Ottawa followed w/88,847# 20/40 mesh Ottawa
7550' - 7665'	Frac w/15,400# 100 mesh sand followed w/32,100# 30/50 mesh Ottawa
7855' - 7890'	Frac w/5,700# 100 mesh sand followed w/85,400# Ottawa

33. PRODUCTION

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
						flowing	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR.)

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

TEST WITNESSED BY
ACCEPTED 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

Carney Higgins

NMOCD

TITLE PERMIT SUPV

DATE 11/2/10

NOV 03 2010

FARMINGTON FIELD OFFICE
BY J. Salvetti

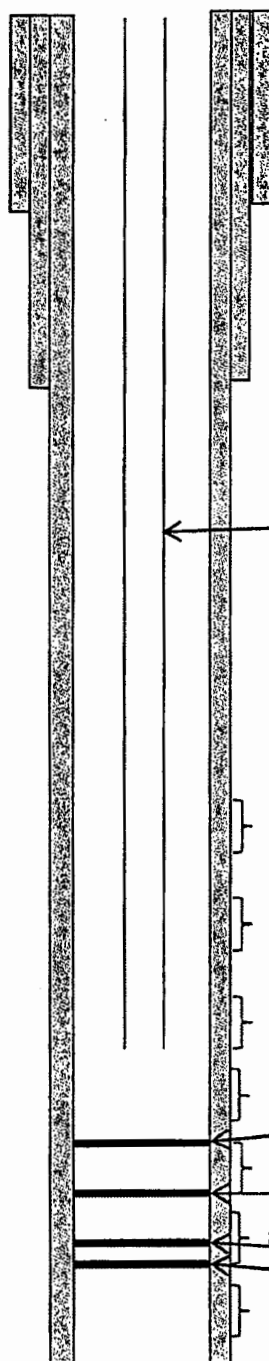
ROSA UNIT #630 BLANCO MV/BASIN MC/ BASIN DK

Spud Date 9/11/09
Completed 10/28/10

Surface Location:
2480' FNL & 2230' FEL
BHL:
2410' FNL & 2184' FEL
Sec 7, T31N, R4W
Rio Arriba, NM

Elevation: 6461' GR
API #: 30-039-29508

<u>Tops</u>	<u>Depth</u>
Lewis	3630'
Cliff House	5567'
Point Lookout	5780'
Mancos	6230'
Granceros	7894'
Dakota	8021'



4th Stage MC: 7000'-7195' (48, 0.34" holes) Frac w/14,383# 100 mesh sand followed w/44,353# 30/50 mesh Ottawa followed w/97,056# 20/40 mesh Ottawa

3rd Stage MC: 7280'-7435' (42, 0.34" holes) Frac w/18,032# 100 mesh sand followed w/38,063# 30/50 mesh Ottawa followed w/88,847# 20/40 mesh Ottawa

2nd Stage MC: 7550'-7665' (762 0.34" holes) Frac w/15,400# 100 mesh sand followed w/32,100# 30/50 mesh Ottawa

1st Stage MC: 7855'-7890' (24, 0.34" holes) Frac w/5,700# 100 mesh sand followed w/85,400# 40/70 mesh Ottawa

3rd Stage DK: 7940'-7990' (33, 0.34" holes) Frac w/2,400# 100 mesh sand followed w/77,100# 30/50 mesh Ottawa

2nd Stage DK: 8023'-8126' (57, 0.34" holes) Frac w/5,000# 100 mesh sand followed w/102,800# 40/70 mesh Ottawa

1st Stage DK: 8303'-8307' (9, 0.34" holes) No frac

RCVD NOV 9 '10
OIL CONS. DIV.
DIST. 3

CIBP @ 7935'

CIBP @ 8010'

CIBP @ 8086'

CIBP @ 8250'

HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14-3/4"	10 3/4", 40.5#	290 s xs	522 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	640 s xs	1592 cu.ft.	surface
6-3/4"	4 1/2", 11.6#	610 s xs	854 cu.ft.	3330' - CBL