

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 05 2014

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. Use "APPLICATION TO DRILL" for permit for such proposals

Lease Designation and Serial No.
NMSF-078765

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation
Rosa Unit

1. Type of Well
Oil Well Gas Well ☒ Other

8. Well Name and No.
Rosa Unit 180D

2. Name of Operator
WPX Energy Production

9. API Well No.
30-045-34988

3. Address and Telephone No.
PO Box 640 Aztec, NM 87410-0640 505-634-4208

10. Field and Pool, or Exploratory Area
BLANCO MV/BASIN DK/BASIN MC

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SURF: 935' FSL & 1935' FWL
BHL: 2303' FSL & 1863' FWL SEC 9 31N 6W

11. County or Parish, State
San Juan, New Mexico

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent

☒ Subsequent Report

Final Abandonment

Abandonment

Recompletion

Plugging Back

Casing Repair

Altering Casing

☒ Other REALLOCATION Supplement

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.)*

WPX Energy completed this well in November 2009 as a commingled well. In June 2010 a completion profile was ran on this well but no reallocation sundry was filed at that time. In July 2011 another completion profile was ran and a reallocation sundry was filed. WPX would now like to file a sundry and adjust the allocation on the well for the period from June 2010 until the reallocation was filed in July 2011.

Original allocation at completion was MV 39% / MC 37% / DK 24%

June 2010 allocation should be MV 63% / MC 17% / DK 20% copy of this completion profile is attached

July 2011 allocation MV 51% / MC 20% / DK 29% - A sundry on this allocation was filed 7/20/2011

RCVD SEP 9 '14

OIL CONS. DIV.

DIST. 3

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

Signed

Larry Higgins

Title Regulatory Spec

Date 9/3/2014

(This space for Federal or State office use)

Approved by

Joe Hewitt

Title

Geo

Date

9-5-14

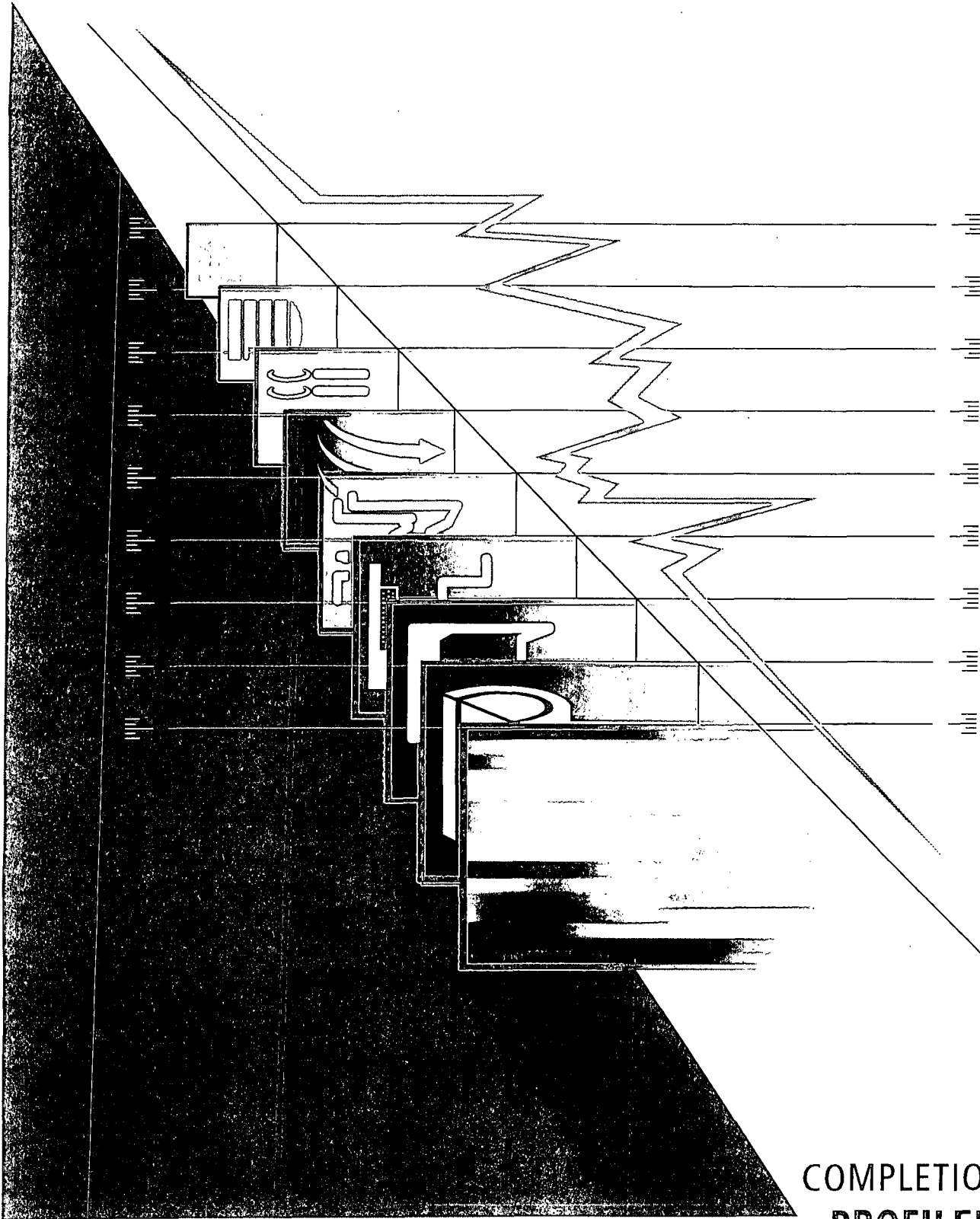
Conditions of approval, if any:

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.

NMOCDC

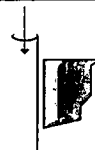
14

Williams Production Company
Rosa Unit #180D



COMPLETION
PROFILER®

MEASURED SOLUTIONS



<i>Company</i>	<i>Williams Production Company</i>
<i>Well Name</i>	<i>Rosa Unit #180D</i>
<i>Field</i>	<i>Blanco Mesaverde/Basin Dakota</i>
<i>Location</i>	<i>San Juan County, New Mexico</i>
<i>Customer Name</i>	<i>Justin Stolworthy</i>
<i>Date of Survey</i>	<i>June 18, 2010</i>
<i>Date of Analysis</i>	<i>July 30, 2010</i>
<i>Logging Engineer</i>	<i>Glenn Hammond</i>
<i>Analyst</i>	<i>Derrick George</i>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful misconduct on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

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Survey Objectives

- Identify the source of water production.
- Identify gas producing intervals.
- Quantitative production profile.

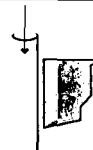
Logging Procedures

Date	Time	Comment
06/18	06:00	Arrive on location
06/18	08:00	Program Completion Profile String
06/18	08:20	Start GIH pass
06/18	08:40	Stop GIH pass
06/18	08:46	Start logging passes
06/18	12:02	Stop logging passes
06/18	12:07	Start out of well pass
06/18	12:28	Stop out of well pass
06/18	12:43	Start download
06/18	13:15	Stop download
06/18	13:45	Rig Down

Interval Logged: [From 5,694 to 8,318 ft.]
 60 ft/min
 90 ft/min
 120 ft/min



Completion Profile Analysis



Well Information

Casing: 5.50" 17.0 lb/ft surface to 7,968 ft

Liner: 3.50" 9.5 lb/ft 7,746 ft to 8,413 ft PBTD: 8,415 ft

Tubing: 2.38" 4.7 lb/ft surface to 5,606 ft

Perforations: 5,778; 5,780; 5,782; 5,784; 5,786; 5,788; 5,790; 5,792; 5,794; 5,796;
5,798; 5,800; 5,802; 5,804; 5,806; 5,808; 5,810; 5,812; 5,814; 5,816;
5,818; 5,820; 5,822; 5,824; 5,856; 5,858; 5,860; 5,862; 5,864; 5,866;
5,868; 5,870; 5,872; 5,874; 5,876; 5,878; 5,880; 5,882; 5,892; 5,894;
5,910; 5,930; 5,944; 5,946; 5,948; 5,952; 5,960; 5,964; 5,980; 5,982;
5,984; 5,986; 5,988; 5,990 ft (Stage 5 - Cliffhouse/Menefee)

6,020; 6,024; 6,028; 6,032; 6,036; 6,040; 6,044; 6,048; 6,052; 6,056;
6,060; 6,064; 6,068; 6,072; 6,076; 6,080; 6,084; 6,088; 6,092; 6,096;
6,100; 6,104; 6,108; 6,112; 6,116; 6,120; 6,124; 6,130; 6,136; 6,140;
6,152; 6,156; 6,172; 6,174; 6,178; 6,183; 6,197; 6,199; 6,234; 6,236;
6,238; 6,240; 6,260; 6,262; 6,264; 6,266; 6,268; 6,278; 6,280; 6,282;
6,288; 6,290; 6,292; 6,294; 6,296; 6,298; 6,300; 6,302; 6,310; 6,312;
6,314; 6,322; 6,324; 6,326; 6,340; 6,342; 6,344; 6,366; 6,368; 6,395;
6,414; 6,416; 6,418 ft (Stage 4 - Point Lookout)

7,200; 7,210; 7,220; 7,230; 7,240; 7,250; 7,260; 7,270; 7,280; 7,290;
7,300; 7,310; 7,320; 7,330; 7,340; 7,350; 7,360; 7,370; 7,380; 7,390;
7,400; 7,410; 7,420; 7,430; 7,440; 7,450 ft (Stage 3 - Upper Mancos)

7,517; 7,523; 7,531; 7,539; 7,550; 7,560; 7,570; 7,580; 7,590; 7,598;
7,610; 7,616; 7,620; 7,630; 7,640; 7,650; 7,660; 7,666; 7,670; 7,680;
7,690; 7,700 ft (Stage 2 - Lower Mancos)

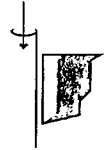
8,272; 8,276; 8,280; 8,284; 8,288; 8,292; 8,312; 8,316; 8,320; 8,324;
8,328; 8,332; 8,336; 8,340; 8,344; 8,348; 8,352; 8,358; 8,362; 8,366;
8,378; 8,382; 8,386; 8,390 ft (Stage 1 - Dakota)

Flowing tubing pressure at the time of logging: 350 psi

Daily average surface production reported at the time of logging:

gas: 1,790 Mscf/d

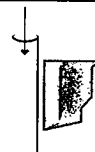
water: 10 bpd



Tool String

The 1 11/16" Completion Profiler string comprised the following sensors:

Battery housing; RS-232/CCL; Memory/CPU; Pressure/Temperature Combo; Gamma Ray; Centralizer; Induction Collar Locator; Fluid Density; Centralizer; Spinner Flowmeter.

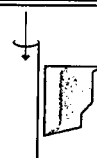


Results

The following table summarizes the production from each frac interval.

GAS / WATER PRODUCTION PROFILE						
Flow Rates Reported at STP						
Zone Intervals	Q-Water	Qp-Water	Percent of	Q-Gas	Qp-Gas	Percent of
feet	BFPD	BFPD	Total	MCFD	MCFD	Total
Surface to 5778	9 bpd		100 %	1792 Mcf/d		100 %
Stage 5 - Cliffhouse/Menefee			23 %			28 %
5778 to 5990	9 bpd	2 bpd		1792 Mcf/d	510 Mcf/d	
Stage 4 - Point Lookout			38 %			34 %
6020 to 6418	7 bpd	3 bpd		1282 Mcf/d	618 Mcf/d	
Stage 3 - Upper Mancos			3 %			10 %
7200 to 7450	3 bpd	0 bpd		664 Mcf/d	183 Mcf/d	
Stage 2 - Lower Mancos			15 %			7 %
7517 to 7700	3 bpd	1 bpd		481 Mcf/d	128 Mcf/d	
Stage 1 - Dakota			15 %			14 %
8272 to 8316	2 bpd	1 bpd		353 Mcf/d	252 Mcf/d	
Flow Contribution from Below Log Depth			6 %			6 %
8318 to Below	1 bpd		6 %	101 Mcf/d		6 %

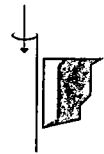
Completion Profile Analysis



The following table summarizes the production from each producing interval.

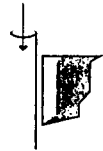
GAS / WATER PRODUCTION PROFILE						
Flow Rates Reported at STP						
Zone Intervals	Q-Water	Qp-Water	Percent of	Q-Gas	Qp-Gas	Percent of
feet	BFPD	BFPD	Total	MCFD	MCFD	Total
Surface to 5778	9 bpd		100 %	1792 Mcf/d		100 %
Stage 5 - Cliffhouse/Menefee			23 %			28 %
5778 to 5778	9 bpd	0 bpd	3 %	1792 Mcf/d	60 Mcf/d	3 %
5780 to 5780	8 bpd	0 bpd	0 %	1733 Mcf/d	1 Mcf/d	0 %
5782 to 5782	8 bpd	0 bpd	0 %	1731 Mcf/d	1 Mcf/d	0 %
5784 to 5784	8 bpd	0 bpd	0 %	1730 Mcf/d	1 Mcf/d	0 %
5786 to 5786	8 bpd	0 bpd	0 %	1729 Mcf/d	1 Mcf/d	0 %
5788 to 5788	8 bpd	0 bpd	0 %	1727 Mcf/d	1 Mcf/d	0 %
5790 to 5790	8 bpd	0 bpd	0 %	1726 Mcf/d	1 Mcf/d	0 %
5792 to 5792	8 bpd	0 bpd	0 %	1725 Mcf/d	1 Mcf/d	0 %
5794 to 5794	8 bpd	0 bpd	0 %	1723 Mcf/d	1 Mcf/d	0 %
5796 to 5796	8 bpd	0 bpd	0 %	1722 Mcf/d	1 Mcf/d	0 %
5798 to 5798	8 bpd	0 bpd	0 %	1720 Mcf/d	1 Mcf/d	0 %
5800 to 5800	8 bpd	0 bpd	0 %	1719 Mcf/d	1 Mcf/d	0 %
5802 to 5802	8 bpd	0 bpd	0 %	1718 Mcf/d	1 Mcf/d	0 %
5804 to 5804	8 bpd	0 bpd	0 %	1716 Mcf/d	1 Mcf/d	0 %
5806 to 5806	8 bpd	0 bpd	0 %	1715 Mcf/d	1 Mcf/d	0 %
5808 to 5808	8 bpd	0 bpd	0 %	1714 Mcf/d	1 Mcf/d	0 %
5810 to 5810	8 bpd	0 bpd	0 %	1712 Mcf/d	1 Mcf/d	0 %
5812 to 5812	8 bpd	0 bpd	0 %	1711 Mcf/d	1 Mcf/d	0 %
5814 to 5814	8 bpd	0 bpd	0 %	1710 Mcf/d	1 Mcf/d	0 %
5816 to 5816	8 bpd	0 bpd	0 %	1708 Mcf/d	1 Mcf/d	0 %
5818 to 5818	8 bpd	0 bpd	0 %	1707 Mcf/d	1 Mcf/d	0 %
5820 to 5820	8 bpd	0 bpd	0 %	1705 Mcf/d	1 Mcf/d	0 %
5822 to 5822	8 bpd	0 bpd	3 %	1704 Mcf/d	78 Mcf/d	4 %
5824 to 5824	8 bpd	0 bpd	3 %	1626 Mcf/d	79 Mcf/d	4 %
5856 to 5856	8 bpd	0 bpd	0 %	1547 Mcf/d	33 Mcf/d	2 %
5858 to 5858	8 bpd	0 bpd	1 %	1514 Mcf/d	34 Mcf/d	2 %
5860 to 5860	8 bpd	0 bpd	1 %	1480 Mcf/d	32 Mcf/d	2 %
5862 to 5862	7 bpd	0 bpd	1 %	1448 Mcf/d	33 Mcf/d	2 %
5864 to 5864	7 bpd	0 bpd	0 %	1415 Mcf/d	0 Mcf/d	0 %
5866 to 5866	7 bpd	0 bpd	0 %	1414 Mcf/d	0 Mcf/d	0 %
5868 to 5868	7 bpd	0 bpd	0 %	1414 Mcf/d	0 Mcf/d	0 %

Completion Profile Analysis



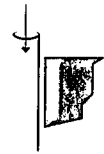
5870	to	5870	7 bpd	0 bpd	0 %	1414 Mcf/d	0 Mcf/d	0 %
5872	to	5872	7 bpd	0 bpd	0 %	1413 Mcf/d	0 Mcf/d	0 %
5874	to	5874	7 bpd	0 bpd	0 %	1413 Mcf/d	0 Mcf/d	0 %
5876	to	5876	7 bpd	0 bpd	0 %	1413 Mcf/d	0 Mcf/d	0 %
5878	to	5878	7 bpd	0 bpd	0 %	1413 Mcf/d	0 Mcf/d	0 %
5880	to	5880	7 bpd	0 bpd	0 %	1412 Mcf/d	0 Mcf/d	0 %
5882	to	5882	7 bpd	0 bpd	0 %	1412 Mcf/d	0 Mcf/d	0 %
5892	to	5892	7 bpd	0 bpd	0 %	1412 Mcf/d	0 Mcf/d	0 %
5894	to	5894	7 bpd	0 bpd	0 %	1411 Mcf/d	0 Mcf/d	0 %
5910	to	5910	7 bpd	0 bpd	0 %	1411 Mcf/d	0 Mcf/d	0 %
5930	to	5930	7 bpd	0 bpd	0 %	1411 Mcf/d	0 Mcf/d	0 %
5944	to	5944	7 bpd	0 bpd	0 %	1410 Mcf/d	10 Mcf/d	1 %
5946	to	5946	7 bpd	0 bpd	0 %	1400 Mcf/d	0 Mcf/d	0 %
5948	to	5948	7 bpd	0 bpd	0 %	1400 Mcf/d	0 Mcf/d	0 %
5952	to	5952	7 bpd	0 bpd	0 %	1400 Mcf/d	0 Mcf/d	0 %
5960	to	5960	7 bpd	0 bpd	0 %	1399 Mcf/d	0 Mcf/d	0 %
5964	to	5964	7 bpd	0 bpd	0 %	1399 Mcf/d	0 Mcf/d	0 %
5980	to	5980	7 bpd	0 bpd	2 %	1399 Mcf/d	29 Mcf/d	2 %
5982	to	5982	7 bpd	0 bpd	2 %	1370 Mcf/d	29 Mcf/d	2 %
5984	to	5984	7 bpd	0 bpd	2 %	1341 Mcf/d	29 Mcf/d	2 %
5986	to	5986	7 bpd	0 bpd	1 %	1311 Mcf/d	29 Mcf/d	2 %
5988	to	5988	7 bpd	0 bpd	0 %	1283 Mcf/d	0 Mcf/d	0 %
5990	to	5990	7 bpd	0 bpd	0 %	1282 Mcf/d	0 Mcf/d	0 %
Stage 4 - Point Lookout					38 %			34 %
6020	to	6020	7 bpd	0 bpd	0 %	1282 Mcf/d	0 Mcf/d	0 %
6024	to	6024	7 bpd	0 bpd	0 %	1282 Mcf/d	0 Mcf/d	0 %
6028	to	6028	7 bpd	0 bpd	2 %	1281 Mcf/d	39 Mcf/d	2 %
6032	to	6032	6 bpd	0 bpd	2 %	1242 Mcf/d	41 Mcf/d	2 %
6036	to	6036	6 bpd	0 bpd	2 %	1202 Mcf/d	41 Mcf/d	2 %
6040	to	6040	6 bpd	0 bpd	2 %	1160 Mcf/d	40 Mcf/d	2 %
6044	to	6044	6 bpd	0 bpd	0 %	1121 Mcf/d	0 Mcf/d	0 %
6048	to	6048	6 bpd	0 bpd	3 %	1120 Mcf/d	52 Mcf/d	3 %
6052	to	6052	6 bpd	0 bpd	3 %	1069 Mcf/d	53 Mcf/d	3 %
6056	to	6056	5 bpd	0 bpd	2 %	1016 Mcf/d	55 Mcf/d	3 %
6060	to	6060	5 bpd	0 bpd	0 %	961 Mcf/d	0 Mcf/d	0 %
6064	to	6064	5 bpd	0 bpd	0 %	960 Mcf/d	0 Mcf/d	0 %
6068	to	6068	5 bpd	0 bpd	0 %	960 Mcf/d	0 Mcf/d	0 %
6072	to	6072	5 bpd	0 bpd	5 %	960 Mcf/d	93 Mcf/d	5 %
6076	to	6076	5 bpd	0 bpd	0 %	867 Mcf/d	0 Mcf/d	0 %
6080	to	6080	5 bpd	0 bpd	0 %	867 Mcf/d	0 Mcf/d	0 %
6084	to	6084	5 bpd	0 bpd	3 %	867 Mcf/d	45 Mcf/d	3 %

Completion Profile Analysis



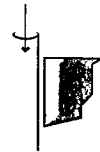
6088	to	6088	4 bpd	0 bpd	0 %	822 Mcf/d	2 Mcf/d	0 %
6092	to	6092	4 bpd	0 bpd	0 %	819 Mcf/d	5 Mcf/d	0 %
6096	to	6096	4 bpd	0 bpd	0 %	814 Mcf/d	5 Mcf/d	0 %
6100	to	6100	4 bpd	0 bpd	0 %	809 Mcf/d	6 Mcf/d	0 %
6104	to	6104	4 bpd	0 bpd	0 %	803 Mcf/d	8 Mcf/d	0 %
6108	to	6108	4 bpd	0 bpd	0 %	794 Mcf/d	7 Mcf/d	0 %
6112	to	6112	4 bpd	0 bpd	0 %	787 Mcf/d	7 Mcf/d	0 %
6116	to	6116	4 bpd	0 bpd	0 %	780 Mcf/d	7 Mcf/d	0 %
6120	to	6120	4 bpd	0 bpd	0 %	773 Mcf/d	8 Mcf/d	0 %
6124	to	6124	4 bpd	0 bpd	0 %	764 Mcf/d	6 Mcf/d	0 %
6130	to	6130	4 bpd	0 bpd	0 %	758 Mcf/d	8 Mcf/d	0 %
6136	to	6136	4 bpd	0 bpd	0 %	750 Mcf/d	7 Mcf/d	0 %
6140	to	6140	4 bpd	0 bpd	0 %	742 Mcf/d	8 Mcf/d	0 %
6152	to	6152	4 bpd	0 bpd	0 %	734 Mcf/d	6 Mcf/d	0 %
6156	to	6156	4 bpd	0 bpd	0 %	728 Mcf/d	8 Mcf/d	0 %
6172	to	6172	4 bpd	0 bpd	0 %	719 Mcf/d	7 Mcf/d	0 %
6174	to	6174	4 bpd	0 bpd	0 %	712 Mcf/d	7 Mcf/d	0 %
6178	to	6178	4 bpd	0 bpd	0 %	705 Mcf/d	8 Mcf/d	0 %
6183	to	6183	4 bpd	0 bpd	0 %	697 Mcf/d	7 Mcf/d	0 %
6197	to	6197	4 bpd	0 bpd	0 %	689 Mcf/d	7 Mcf/d	0 %
6199	to	6199	4 bpd	0 bpd	0 %	682 Mcf/d	7 Mcf/d	0 %
6234	to	6234	4 bpd	0 bpd	0 %	675 Mcf/d	0 Mcf/d	0 %
6236	to	6236	4 bpd	0 bpd	0 %	674 Mcf/d	0 Mcf/d	0 %
6238	to	6238	4 bpd	0 bpd	0 %	674 Mcf/d	0 Mcf/d	0 %
6240	to	6240	4 bpd	0 bpd	0 %	674 Mcf/d	0 Mcf/d	0 %
6260	to	6260	4 bpd	0 bpd	0 %	673 Mcf/d	0 Mcf/d	0 %
6262	to	6262	4 bpd	0 bpd	0 %	673 Mcf/d	0 Mcf/d	0 %
6264	to	6264	4 bpd	0 bpd	0 %	673 Mcf/d	0 Mcf/d	0 %
6266	to	6266	4 bpd	0 bpd	0 %	673 Mcf/d	0 Mcf/d	0 %
6268	to	6268	4 bpd	0 bpd	0 %	672 Mcf/d	0 Mcf/d	0 %
6278	to	6278	4 bpd	0 bpd	0 %	672 Mcf/d	0 Mcf/d	0 %
6280	to	6280	4 bpd	0 bpd	0 %	672 Mcf/d	0 Mcf/d	0 %
6282	to	6282	4 bpd	0 bpd	0 %	671 Mcf/d	0 Mcf/d	0 %
6288	to	6288	4 bpd	0 bpd	0 %	671 Mcf/d	0 Mcf/d	0 %
6290	to	6290	4 bpd	0 bpd	0 %	671 Mcf/d	0 Mcf/d	0 %
6292	to	6292	4 bpd	0 bpd	0 %	670 Mcf/d	0 Mcf/d	0 %
6294	to	6294	4 bpd	0 bpd	0 %	670 Mcf/d	0 Mcf/d	0 %
6296	to	6296	4 bpd	0 bpd	0 %	670 Mcf/d	0 Mcf/d	0 %
6298	to	6298	4 bpd	0 bpd	0 %	670 Mcf/d	0 Mcf/d	0 %
6300	to	6300	3 bpd	0 bpd	0 %	669 Mcf/d	0 Mcf/d	0 %
6302	to	6302	3 bpd	0 bpd	0 %	669 Mcf/d	0 Mcf/d	0 %

Completion Profile Analysis

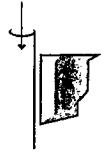


6310	to	6310	3 bpd	0 bpd	0 %	669 Mcf/d	0 Mcf/d	0 %
6312	to	6312	3 bpd	0 bpd	0 %	668 Mcf/d	0 Mcf/d	0 %
6314	to	6314	3 bpd	0 bpd	0 %	668 Mcf/d	0 Mcf/d	0 %
6322	to	6322	3 bpd	0 bpd	0 %	668 Mcf/d	0 Mcf/d	0 %
6324	to	6324	3 bpd	0 bpd	0 %	667 Mcf/d	0 Mcf/d	0 %
6326	to	6326	3 bpd	0 bpd	0 %	667 Mcf/d	0 Mcf/d	0 %
6340	to	6340	3 bpd	0 bpd	0 %	667 Mcf/d	0 Mcf/d	0 %
6342	to	6342	3 bpd	0 bpd	0 %	667 Mcf/d	0 Mcf/d	0 %
6344	to	6344	3 bpd	0 bpd	0 %	666 Mcf/d	0 Mcf/d	0 %
6366	to	6366	3 bpd	0 bpd	0 %	666 Mcf/d	0 Mcf/d	0 %
6368	to	6368	3 bpd	0 bpd	0 %	666 Mcf/d	0 Mcf/d	0 %
6395	to	6395	3 bpd	0 bpd	0 %	665 Mcf/d	0 Mcf/d	0 %
6414	to	6414	3 bpd	0 bpd	0 %	665 Mcf/d	0 Mcf/d	0 %
6416	to	6416	3 bpd	0 bpd	0 %	665 Mcf/d	0 Mcf/d	0 %
6418	to	6418	3 bpd	0 bpd	0 %	664 Mcf/d	0 Mcf/d	0 %
Stage 3 - Upper Mancos					3 %			10 %
7200	to	7200	3 bpd	0 bpd	0 %	664 Mcf/d	6 Mcf/d	0 %
7210	to	7210	3 bpd	0 bpd	0 %	658 Mcf/d	7 Mcf/d	0 %
7220	to	7220	3 bpd	0 bpd	0 %	651 Mcf/d	8 Mcf/d	0 %
7230	to	7230	3 bpd	0 bpd	0 %	643 Mcf/d	7 Mcf/d	0 %
7240	to	7240	3 bpd	0 bpd	0 %	636 Mcf/d	7 Mcf/d	0 %
7250	to	7250	3 bpd	0 bpd	0 %	629 Mcf/d	7 Mcf/d	0 %
7260	to	7260	3 bpd	0 bpd	0 %	623 Mcf/d	7 Mcf/d	0 %
7270	to	7270	3 bpd	0 bpd	0 %	616 Mcf/d	7 Mcf/d	0 %
7280	to	7280	3 bpd	0 bpd	0 %	609 Mcf/d	8 Mcf/d	0 %
7290	to	7290	3 bpd	0 bpd	0 %	601 Mcf/d	7 Mcf/d	0 %
7300	to	7300	3 bpd	0 bpd	0 %	594 Mcf/d	7 Mcf/d	0 %
7310	to	7310	3 bpd	0 bpd	0 %	587 Mcf/d	8 Mcf/d	0 %
7320	to	7320	3 bpd	0 bpd	0 %	580 Mcf/d	7 Mcf/d	0 %
7330	to	7330	3 bpd	0 bpd	0 %	573 Mcf/d	7 Mcf/d	0 %
7340	to	7340	3 bpd	0 bpd	0 %	566 Mcf/d	8 Mcf/d	0 %
7350	to	7350	3 bpd	0 bpd	0 %	558 Mcf/d	7 Mcf/d	0 %
7360	to	7360	3 bpd	0 bpd	1 %	551 Mcf/d	7 Mcf/d	0 %
7370	to	7370	3 bpd	0 bpd	0 %	545 Mcf/d	7 Mcf/d	0 %
7380	to	7380	3 bpd	0 bpd	0 %	538 Mcf/d	7 Mcf/d	0 %
7390	to	7390	3 bpd	0 bpd	0 %	531 Mcf/d	8 Mcf/d	0 %
7400	to	7400	3 bpd	0 bpd	0 %	523 Mcf/d	7 Mcf/d	0 %
7410	to	7410	3 bpd	0 bpd	0 %	516 Mcf/d	7 Mcf/d	0 %
7420	to	7420	3 bpd	0 bpd	0 %	509 Mcf/d	7 Mcf/d	0 %
7430	to	7430	3 bpd	0 bpd	0 %	503 Mcf/d	7 Mcf/d	0 %

Completion Profile Analysis



7440	to	7440	3 bpd	0 bpd	0 %	496 Mcf/d	7 Mcf/d	0 %
7450	to	7450	3 bpd	0 bpd	0 %	489 Mcf/d	8 Mcf/d	0 %
Stage 2 - Lower Mancos					15 %			7 %
7517	to	7517	3 bpd	0 bpd	0 %	481 Mcf/d	6 Mcf/d	0 %
7523	to	7523	3 bpd	0 bpd	0 %	475 Mcf/d	6 Mcf/d	0 %
7531	to	7531	3 bpd	0 bpd	0 %	469 Mcf/d	5 Mcf/d	0 %
7539	to	7539	3 bpd	0 bpd	0 %	464 Mcf/d	5 Mcf/d	0 %
7550	to	7550	3 bpd	0 bpd	0 %	458 Mcf/d	6 Mcf/d	0 %
7560	to	7560	3 bpd	0 bpd	0 %	453 Mcf/d	7 Mcf/d	0 %
7570	to	7570	3 bpd	0 bpd	0 %	446 Mcf/d	6 Mcf/d	0 %
7580	to	7580	3 bpd	0 bpd	0 %	440 Mcf/d	6 Mcf/d	0 %
7590	to	7590	3 bpd	0 bpd	0 %	434 Mcf/d	6 Mcf/d	0 %
7598	to	7598	3 bpd	0 bpd	0 %	429 Mcf/d	5 Mcf/d	0 %
7610	to	7610	3 bpd	0 bpd	0 %	423 Mcf/d	5 Mcf/d	0 %
7616	to	7616	3 bpd	0 bpd	0 %	418 Mcf/d	6 Mcf/d	0 %
7620	to	7620	3 bpd	0 bpd	0 %	412 Mcf/d	7 Mcf/d	0 %
7630	to	7630	3 bpd	0 bpd	0 %	405 Mcf/d	6 Mcf/d	0 %
7640	to	7640	3 bpd	0 bpd	0 %	399 Mcf/d	6 Mcf/d	0 %
7650	to	7650	3 bpd	0 bpd	0 %	394 Mcf/d	6 Mcf/d	0 %
7660	to	7660	3 bpd	0 bpd	0 %	388 Mcf/d	5 Mcf/d	0 %
7666	to	7666	3 bpd	0 bpd	0 %	383 Mcf/d	6 Mcf/d	0 %
7670	to	7670	3 bpd	0 bpd	0 %	377 Mcf/d	7 Mcf/d	0 %
7680	to	7680	3 bpd	0 bpd	0 %	370 Mcf/d	6 Mcf/d	0 %
7690	to	7690	3 bpd	0 bpd	0 %	364 Mcf/d	6 Mcf/d	0 %
7700	to	7700	3 bpd	1 bpd	13 %	358 Mcf/d	5 Mcf/d	0 %
Stage 1 - Dakota					15 %			14 %
8272	to	8272	2 bpd	0 bpd	2 %	353 Mcf/d	12 Mcf/d	1 %
8276	to	8276	2 bpd	0 bpd	0 %	341 Mcf/d	3 Mcf/d	0 %
8280	to	8280	2 bpd	0 bpd	1 %	339 Mcf/d	13 Mcf/d	1 %
8284	to	8284	2 bpd	0 bpd	0 %	326 Mcf/d	13 Mcf/d	1 %
8288	to	8288	2 bpd	0 bpd	0 %	313 Mcf/d	11 Mcf/d	1 %
8292	to	8292	2 bpd	0 bpd	5 %	302 Mcf/d	85 Mcf/d	5 %
8312	to	8312	1 bpd	1 bpd	7 %	218 Mcf/d	114 Mcf/d	6 %
8316	to	8316	1 bpd	0 bpd	0 %	104 Mcf/d	3 Mcf/d	0 %
Flow Contribution from Below Log Depth					6 %			6 %
8318	to	Below	1 bpd		6 %	101 Mcf/d		6 %



Analysis Summary

1. The perforations below 8,316 feet (8,320; 8,324; 8,328; 8,332; 8,336; 8,340; 8,344; 8,348; 8,352; 8,358; 8,362; 8,366; 8,378; 8,382; 8,386; 8,390 ft) were not logged due to wellbore restrictions.