

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

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.**

5. Lease Serial No.
COC066586

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

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Williams Production RMT Company

3a. Address
1515 Arapahoe Street, Tower 3, Suite 1000
Denver, Colorado 80202

3b. Phone No. (include area code)
(303) 606-4342

7. If Unit of CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
Federal RG 23-14-298

9. API Well No.
05-103-11276-00

10. Field and Pool or Exploratory Area
Sulphur Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 1477' FSL, 1757' FWL; NESW of Sec. 14, T2S-R98W 6th P.M.
BHL: 2240' FSL, 1914' FWL; NESW of Sec. 14, T2S-R98W 6th P.M.

11. Country or Parish, State
Rio Blanco, Colorado

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Change Surface and Bottom Hole Location
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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.)

Request authorization to change Surface Hole Location.

Change of Surface Hole footage FROM: 1489' FSL, 1751' FWL
Change of Surface Hole footage TO: 1477' FSL, 1757' FWL

Change of Bottom Hole footage FROM: 2228' FSL, 1913' FWL
Change of Bottom Hole footage TO: 2240' FSL, 1914' FWL

The Directional Plan has been modified accordingly.

Please reference attached documents:

- 1) Revised Final Plat
- 2) Directional Page Plot
- 3) Directional Plan

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

Name (Printed/Typed)
Matt Barber

Title Sr. Regulatory Specialist, Highlands

Signature

Matt Barber

Date

6-18-2010

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.

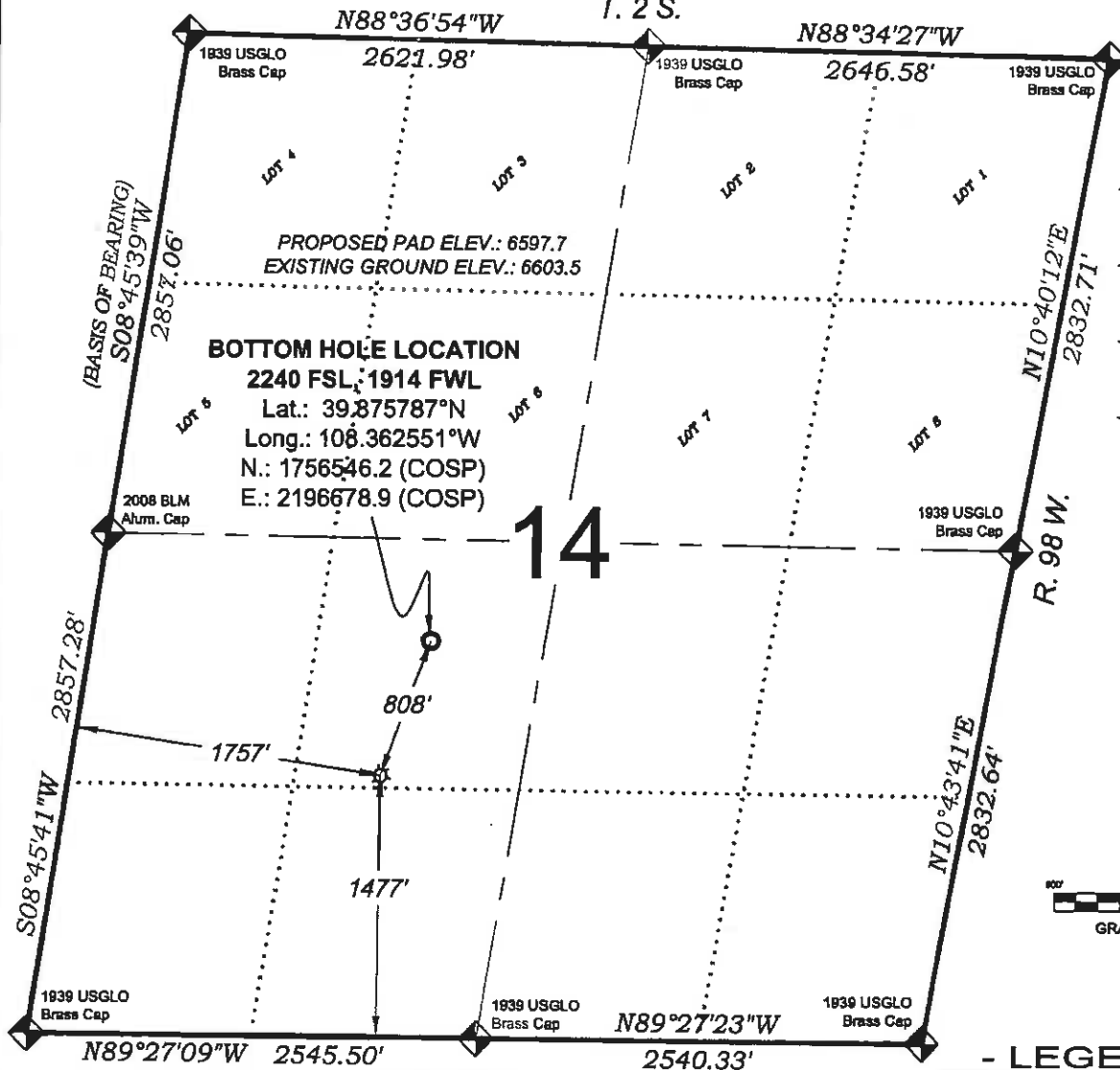
Office

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)

Federal RG 23-14-298

T. 2 S.



1757 FWL

LATITUDE

39.873678°N

LONGITUDE

108.363449°W

NORTHING

1755786.5

EASTING

2196402.8



0 500 1000

GRAPHIC SCALE IN FEET
1 INCH = 1000 FEET

- LEGEND -

FIELD LOCATED SECTION
MONUMENTS AS DESCRIBEDFIELD SURVEYED
WELL LOCATION

CALCULATED BOTTOM HOLE LOCATION

**CALCULATED SECTION
CORNER LOCATION**

NOTES

- 1) ELEVATIONS BASED ON N.A. V.D. 1988 PUBLISHED COORDINATES.
- 2) LATITUDES AND LONGITUDES ARE BASED ON NAD 83, PUBLISHED COORDINATES
- 3) STATE PLANE COORDINATES ARE BASED ON COLORADO CENTRAL ZONE, U.S. SURVEY FEET.
- 4) ELEVATION MASK SET TO 15"
- 5) GPS OPERATOR J. KIRKPATRICK, OBSERVED A PDOP OF 1.78 FOR SURVEY POINT NUMBER 4000.
- 6) SURFACE AND BOTTOM HOLE LOCATIONS ARE MEASURED 90° FROM SECTION LINES.

SURVEYORS STATEMENT

I, MICHAEL J. LANGHORNE, A REGISTERED LAND SURVEYOR IN THE STATE OF COLORADO DO HEREBY CERTIFY THAT THE SURVEY SHOWN HEREON WAS PREPARED UNDER MY DIRECT SUPERVISION AND HAS BEEN STAKED ON THE GROUND AS SHOWN ON THE PLAT AND CHECKING THAT THIS MAP IS A TRUE REPRESENTATION THEREOF.

MICHAEL J. LANGHORNE, COLORADO REGISTRATION NO. 36572
FOR AND ON BEHALF OF
BOOKCLIFF SURVEY SERVICES, INC.

REFERENCES

- 1) CORRECTIVE DEPENDENT RESURVEY T. 2 S., R. 98 W., 6 th P.M (GLO PLAT)
2) U.S.G.S. QUAD: Rock School and Square S Ranch, CO

SURVEY DATE: 3/26/10

MAP DATE: 3/31/10

SCALE: 1" = 1000'

PLAT: 1 of 1

PROJECT: Williams

WELL LOCATION PLAT Prepared for:

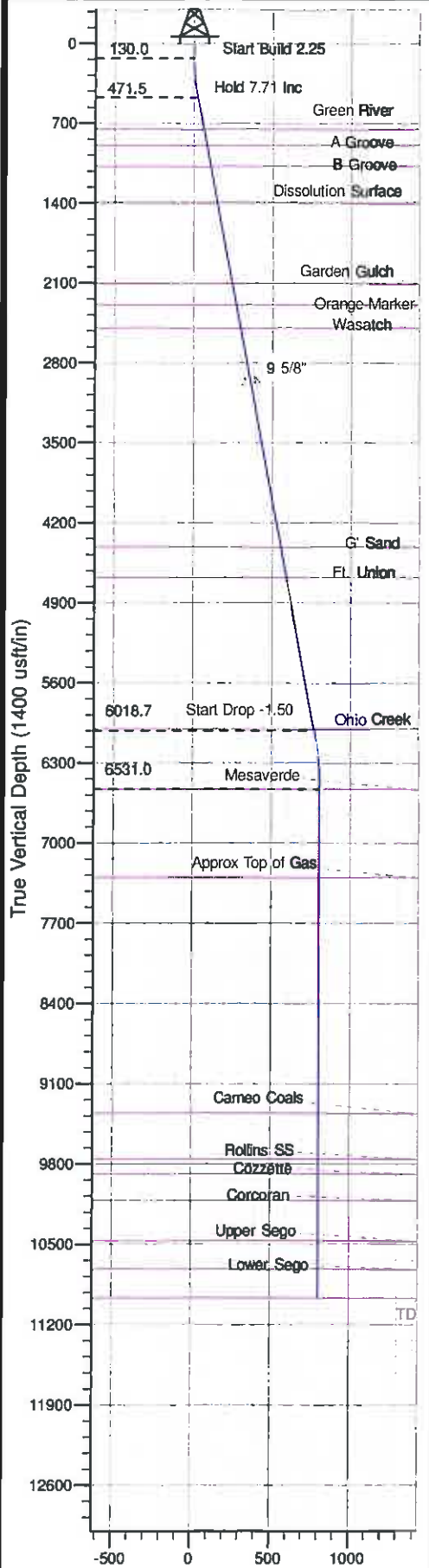
Williams. Williams Production, RMT

NE1/4 SW1/4, SECTION 14

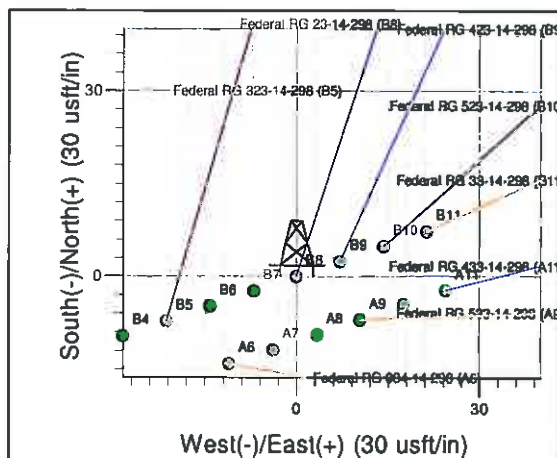
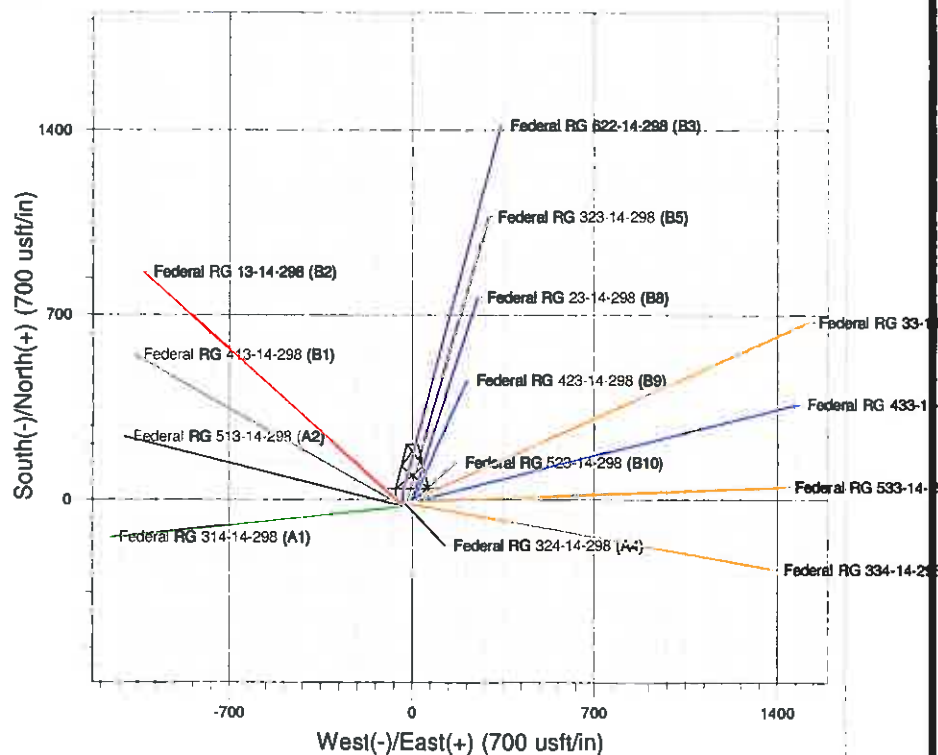
T. 2 S., R. 98 W. of the 6th. P.M.

Rio BLANCO COUNTY, COLORADO





Well Name: Federal RG 23-14-298
 Surface Location: RG 23-14-298 Pad
 North American Datum 1983, US State Plane 1983 Colorado Central Zone
 Ground Elevation: 6600.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slat
 0.0 0.0 1755786.52 2196402.81 39° 52' 25.242 N 108° 21' 48.415 W B8
 Cyclone 29(21' RKB) @ 6621.0usft (Cyclone 29(21' RKB) jib)



Project: RG 14-02S-098W
 Site: RG 23-14-298 Pad
 Well: Federal RG 23-14-298
 Plan: Plan #2 15mari0 kjs

M Azimuths to True North
 Magnetic North: 10.80°
 Magnetic Field
 Strength: 52629.5nT
 Dip Angle: 68.04°
 Date: 6/16/2009
 Model: IGRF2005-10

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.000	0.0	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.000	0.0	
472.6	7.71	18.17	471.5	21.9	7.2	2.25	18.167	23.0	
6070.3	7.71	18.17	6018.7	735.2	241.2	0.00	0.000	773.8	
6584.2	0.00	0.00	6531.0	768.0	252.0	1.50	180.000	808.3	Mesaverde (25' Radius) Federal RG 23-14-298
11024.2	0.00	0.00	10971.0	768.0	252.0	0.00	0.000	808.3	

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSecl	Departure	Annotation
130.0	130.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.25
471.5	472.6	7.71	18.17	21.9	7.2	23.0	23.0	Hold 7.71 Inc
6018.7	6070.3	7.71	18.17	735.2	241.2	773.8	773.8	Start Drop -1.50
6531.0	6584.2	0.00	0.00	768.0	252.0	808.3	808.3	Vertical
10971.0	11024.2	0.00	0.00	768.0	252.0	808.3	808.3	TD at 11024

PICEANCE HL NAD 83

RG 14-02S-098W

RG 23-14-298 Pad

Federal RG 23-14-298 - Slot B8

Wellbore #1

Plan: Plan #2 15mar10 kjs

Standard Planning Report - Geographic

02 April, 2010

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RG 23-14-298 (B8) - Slot B8
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) Jjb)
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) Jjb)
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 23-14-298	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 15mar10 kjs		

Project	RG 14-02S-098W, Rio Blanco County, CO, RG 14-02S-098W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		Using geodetic scale factor

Site	RG 23-14-298 Pad			
Site Position:		Northing:	1,755,786.50 usft	Latitude: 39° 52' 25.242 N
From: Map		Easting:	2,196,402.80 usft	Longitude: 108° 21' 48.415 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence: -1.806 °

Well	Federal RG 23-14-298 - Slot B8			
Well Position	+N/-S	0.0 usft	Northing: 1,755,786.52 usft	Latitude: 39° 52' 25.242 N
	+E/-W	0.0 usft	Easting: 2,196,402.81 usft	Longitude: 108° 21' 48.415 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level: 6,600.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	6/16/2009	10.804	66.045	52,630

Design	Plan #2 15mar10 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	18.17

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.000	
130.0	0.00	0.00	130.0	0.0	0.0	0.00	0.00	0.00	0.000	
472.6	7.71	18.17	471.5	21.9	7.2	2.25	2.25	0.00	18.167	
6,070.3	7.71	18.17	6,018.7	735.2	241.2	0.00	0.00	0.00	0.000	
6,584.2	0.00	0.00	6,531.0	768.0	252.0	1.50	-1.50	0.00	180.000	Mesaverde (25' Radiu
11,024.2	0.00	0.00	10,971.0	768.0	252.0	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RG 23-14-298 (B8) - Slot B8
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) jib)
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) jib)
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 23-14-298	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 15mar10 kjs		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	1,755,786.52	2,196,402.81	39° 52' 25.242 N	108° 21' 48.415 W
130.0	0.00	0.00	130.0	0.0	0.0	1,755,786.52	2,196,402.81	39° 52' 25.242 N	108° 21' 48.415 W
472.6	7.71	18.17	471.5	21.9	7.2	1,755,808.14	2,196,410.66	39° 52' 25.458 N	108° 21' 48.323 W
6,070.3	7.71	18.17	6,018.7	735.2	241.2	1,756,513.76	2,196,667.11	39° 52' 32.508 N	108° 21' 45.321 W
6,584.2	0.00	0.00	6,531.0	768.0	252.0	1,756,546.20	2,196,678.90	39° 52' 32.832 N	108° 21' 45.183 W
11,024.2	0.00	0.00	10,971.0	768.0	252.0	1,756,546.20	2,196,678.90	39° 52' 32.832 N	108° 21' 45.183 W

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Mesaverde (25' Radius)	0.00	0.00	6,531.0	768.0	252.0	1,756,546.20	2,196,678.90	39° 52' 32.832 N	108° 21' 45.183 W
- plan hits target center									
- Circle (radius 25.0)									
Mesaverde (50' Radius)	0.00	0.00	6,531.0	768.0	252.0	1,756,546.20	2,196,678.90	39° 52' 32.832 N	108° 21' 45.183 W
- plan hits target center									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,011.0	2,987.0	9 5/8"	9.625	13.500	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RG 23-14-298 (B8) - Slot B8
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) Jb)
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29(21' RKB) Jb)
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 23-14-298	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2 15mar10 kjs		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (")	Dip Direction (")
754.6	751.0	Green River		0.000	
895.9	891.0	A Groove		0.000	
1,082.5	1,076.0	B Groove		0.000	
1,400.4	1,391.0	Dissolution Surface		0.000	
2,121.9	2,106.0	Garden Gulch		0.000	
2,308.6	2,291.0	Orange Marker		0.000	
2,510.4	2,491.0	Wasatch		0.000	
4,447.9	4,411.0	G' Sand		0.000	
4,720.4	4,681.0	Fl. Union		0.000	
6,052.4	6,001.0	Ohio Creek		0.000	
6,584.2	6,531.0	Mesaverde		0.000	
7,354.2	7,301.0	Approx Top of Gas		0.000	
9,414.2	9,361.0	Cameo Coals		0.000	
9,814.2	9,761.0	Rollins SS		0.000	
9,944.2	9,891.0	Cozzette		0.000	
10,174.2	10,121.0	Concoran		0.000	
10,529.2	10,476.0	Upper Sego		0.000	
10,774.2	10,721.0	Lower Sego		0.000	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
130.0	130.0	0.0	0.0	Start Build 2.25
472.6	471.5	21.9	7.2	Hold 7.71 Inc
6,070.3	6,018.7	735.2	241.2	Start Drop -1.50
6,584.2	6,531.0	768.0	252.0	Vertical
11,024.2	10,971.0	768.0	252.0	TD at 11024