

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 13-14-298

9. API Well No.
05-103-11280-00

10. Field and Pool or Exploratory Area
Sulphur Creek

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL: 1464' FSL, 1716' FWL; NESW of Sec. 14, T2S-R98W 6th P.M.
BHL: 2362' FSL, 637' FWL; NWSW 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 <u>Change Surface</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>and Bottom hole</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>Location</u>

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.)

Request authorization to change Surface and Bottom Hole Location.

Change of Surface Hole footage FROM: 1474' FSL, 1711' FWL
Change of Surface Hole footage TO: 1464' FSL, 1716FWL

Change of Bottom Hole footage FROM: 2340' FSL, 649' FWL
Change of Bottom Hole footage TO: 2362' FSL, 637' 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



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.

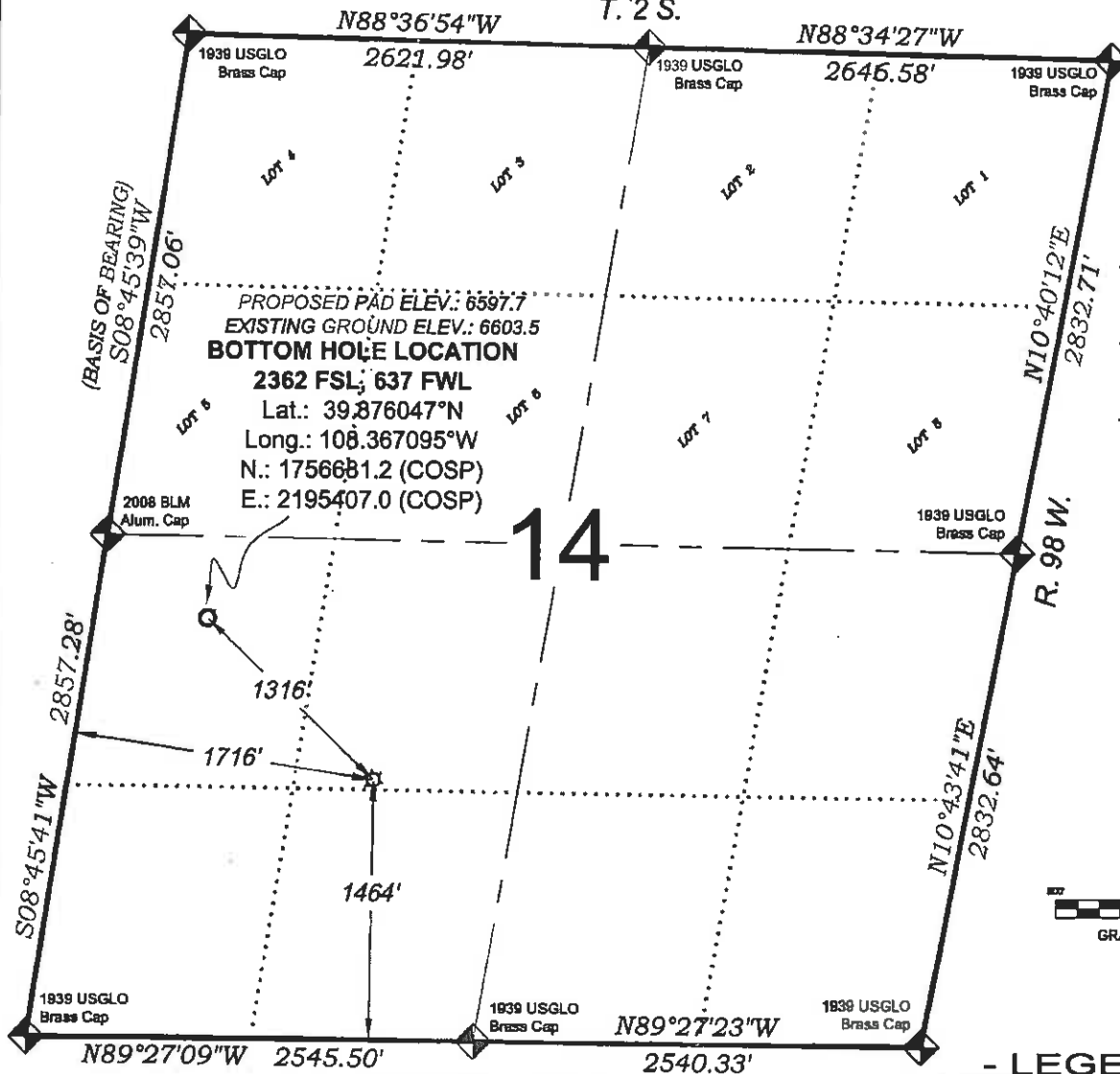
Office

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.

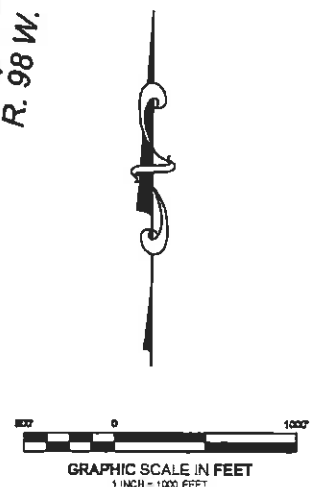
(Instructions on page 2)

Federal RG 13-14-298

T. 2 S.



1464 FSL
1716 FWL
LATITUDE
39.873638°N
LONGITUDE
108.363600°W
NORTHING
1755773.3
EASTING
2196359.8



- LEGEND -

- FIELD LOCATED SECTION MONUMENTS AS DESCRIBED
- FIELD SURVEYED WELL LOCATION
- CALCULATED BOTTOM HOLE LOCATION
- CALCULATED SECTION CORNER LOCATION

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 Langhorne

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

REFERENCES

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

NOTES

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

WELL LOCATION PLAT Prepared for:

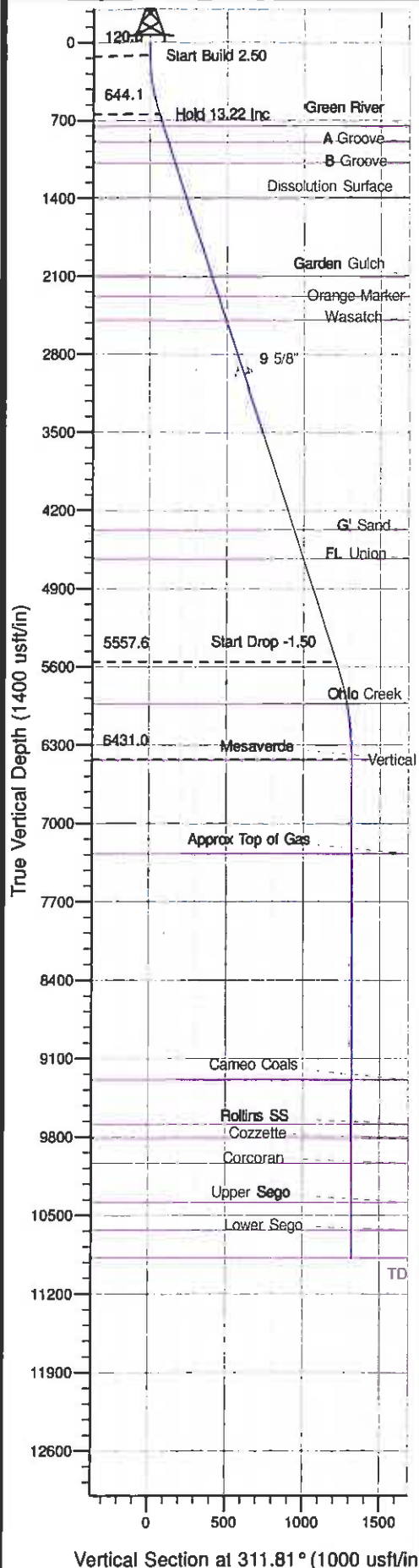
Williams Williams Production, RMT

NE1/4 SW1/4, SECTION 14
T. 2 S., R. 98 W. of the 6th P.M.
Rio BLANCO COUNTY, COLORADO

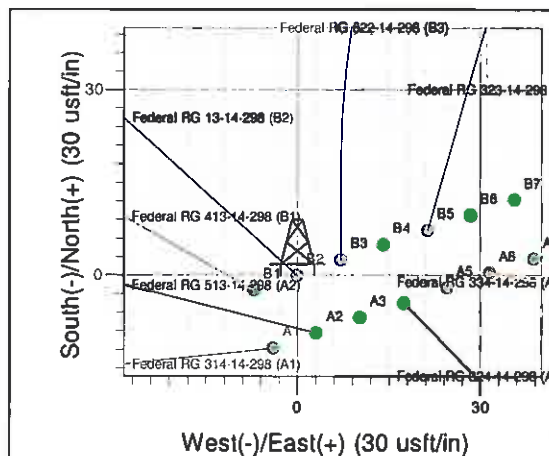
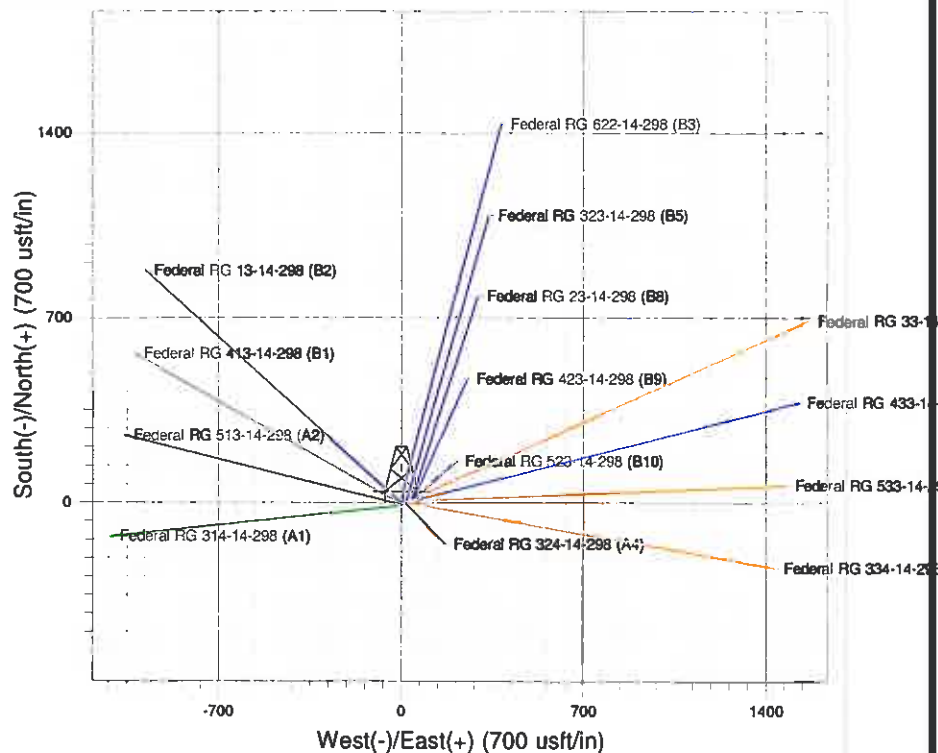
SURVEY DATE: 3/26/10
MAP DATE: 3/31/10
SCALE: 1" = 1000'
PLAT: 1 of 1
PROJECT: Williams



BOOKCLIFF
Survey Services, Inc.



Well Name: Federal RG 13-14-298
 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 Slot
 0.0 0.0 1755773.30 2196359.80 39°52'25.098 N 108°21'48.961 W B2
 Cyclone 29 (21' RKB) BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) jib)



Project: RG 14-02S-098W
 Site: RG 23-14-298 Pad
 Well: Federal RG 13-14-298
 Plan: Plan #2 15Mar10 kjs

M Azimuths to True North
 Magnetic North: 10.81°
 Magnetic Field
 Strength: 52637.7nT
 Dip Angle: 66.05°
 Date: 5/16/2009
 Model: IGRF2005-10

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.000	0.0	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.000	0.0	
648.7	13.22	311.81	644.1	40.5	-45.3	2.50	311.812	60.7	
5696.0	13.22	311.81	5557.6	809.9	-905.5	0.00	0.000	1214.9	
6577.2	0.00	0.00	6431.0	877.4	-980.9	1.50	180.000	1316.1	Mesaverde (25' Radius) Federal RG 13-14-298
11027.2	0.00	0.00	10881.0	877.4	-980.9	0.00	0.000	1316.1	

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.50
644.1	648.7	13.22	311.81	40.5	-45.3	60.7	60.7	Hold 13.22 inc
5557.6	5696.0	13.22	311.81	809.9	-905.5	1214.9	1214.9	Start Drop -1.50
6431.0	6577.2	0.00	0.00	877.4	-980.9	1316.1	1316.1	Vertical
10881.0	11027.2	0.00	0.00	877.4	-980.9	1316.1	1316.1	TD at 11027

PICEANCE HL NAD 83

RG 14-02S-098W

RG 23-14-298 Pad

Federal RG 13-14-298 - Slot B2

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 13-14-298 (B2) - Slot B2
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) J)b
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) J)b
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 13-14-298	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 13-14-298 - Slot B2			
Well Position	+N/-S	0.0 usft	Northing:	1,755,773.30 usft
	+E/-W	0.0 usft	Easting:	2,196,359.80 usft
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	5/16/2009	10.815	66.047	52,638

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	311.81

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)	TFD (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.000	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.000	
648.7	13.22	311.81	644.1	40.5	-45.3	2.50	2.50	0.00	311.812	
5,698.0	13.22	311.81	5,557.6	809.9	-905.5	0.00	0.00	0.00	0.000	
6,577.2	0.00	0.00	6,431.0	877.4	-980.9	1.50	-1.50	0.00	180.000	Mesaverde (25' Radiu
11,027.2	0.00	0.00	10,881.0	877.4	-980.9	0.00	0.00	0.00	0.000	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RG 13-14-298 (B2) - Slot B2
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) jlb)
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) jlb)
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 13-14-298	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	1,755,773.30	2,196,359.80	39° 52' 25.098 N	108° 21' 48.961 W
120.0	0.00	0.00	120.0	0.0	0.0	1,755,773.30	2,196,359.80	39° 52' 25.098 N	108° 21' 48.961 W
648.7	13.22	311.81	644.1	40.5	-45.3	1,755,815.19	2,196,315.84	39° 52' 25.498 N	108° 21' 49.542 W
5,696.0	13.22	311.81	5,557.6	809.9	-905.5	1,756,611.38	2,195,480.27	39° 52' 33.102 N	108° 22' 0.575 W
6,577.2	0.00	0.00	6,431.0	877.4	-980.9	1,756,681.20	2,195,407.00	39° 52' 33.769 N	108° 22' 1.543 W
11,027.2	0.00	0.00	10,881.0	877.4	-980.9	1,756,681.20	2,195,407.00	39° 52' 33.769 N	108° 22' 1.543 W

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hi/miss target									
- Shape									
Mesaverde (25' Radius)	0.00	0.00	6,431.0	877.4	-980.9	1,756,681.20	2,195,407.00	39° 52' 33.769 N	108° 22' 1.543 W
- plan hits target center									
- Circle (radius 25.0)									
Mesaverde (50' Radius)	0.00	0.00	6,431.0	877.4	-980.9	1,756,681.20	2,195,407.00	39° 52' 33.769 N	108° 22' 1.543 W
- plan hits target center									
- Circle (radius 50.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,046.0	2,977.8	9 5/8"	9.625	13.500	

Williams
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RG 13-14-298 (B2) - Slot B2
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) jlb)
Project:	RG 14-02S-098W	MD Reference:	KELLY BUSHING @ 6621.0usft (Cyclone 29 (21' RKB) jlb)
Site:	RG 23-14-298 Pad	North Reference:	True
Well:	Federal RG 13-14-298	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 (°)	
758.6	751.0	Green River		0.000		
902.4	891.0	A Groove		0.000		
1,097.6	1,081.0	B Groove		0.000		
1,416.0	1,391.0	Dissolution Surface		0.000		
2,140.2	2,096.0	Garden Gulch		0.000		
2,330.2	2,281.0	Orange Marker		0.000		
2,545.9	2,491.0	Wasatch		0.000		
4,477.1	4,371.0	G' Sand		0.000		
4,744.2	4,631.0	Ft. Union		0.000		
6,070.7	5,926.0	Ohio Creek		0.000		
6,577.2	6,431.0	Mesaverde		0.000		
7,417.2	7,271.0	Approx Top of Gas		0.000		
9,437.2	9,291.0	Cameo Coals		0.000		
9,837.2	9,691.0	Rollins SS		0.000		
9,962.2	9,816.0	Cozzette		0.000		
10,182.2	10,036.0	Corcoran		0.000		
10,532.2	10,386.0	Upper Sego		0.000		
10,777.2	10,631.0	Lower Sego		0.000		
11,027.2	10,881.0	TD		0.000		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
120.0	120.0	0.0	0.0	Start Build 2.50	
648.7	644.1	40.5	-45.3	Hold 13.22 Inc	
5,696.0	5,557.6	809.9	-905.5	Start Drop -1.50	
6,577.2	6,431.0	877.4	-980.9	Vertical	
11,027.2	10,881.0	877.4	-980.9	TD at 11027	