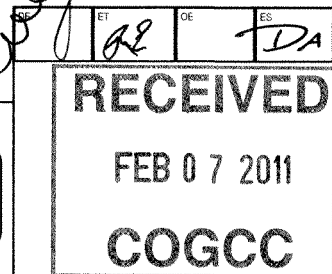


State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



01719054



SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850	4. Contact Name: Howard Harris	Complete the Attachment Checklist
2. Name of Operator: Williams Production RMT Co.	Phone: (303) 606-4086	
3. Address: 1515 Arapahoe St., Tower 3, Suite 1000	Fax: (303) 629-8268	OP OGCC
City: Denver State: CO Zip: 80202		
5. API Number 05-103-11489	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: Federal	7. Well/Facility Number: RGU 523-6-297	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian): NESW Sec 6 T2S R97W		Surface Eqmpt Diagram
9. County: Rio Blanco	10. Field Name: Sulphur Creek	Technical Info Page
11. Federal, Indian or State Lease Number: COC062046		Other

General Notice

☒ **CHANGE OF LOCATION:** Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of <b>Surface</b> Footage from Exterior Section Lines:	FNL/FSL	FEL/FWL
Change of <b>Surface</b> Footage to Exterior Section Lines:	FSL	FWL
Change of <b>Bottomhole</b> Footage from Exterior Section Lines:	1351	1956
Change of <b>Bottomhole</b> Footage to Exterior Section Lines:	1226	1942

Bottomhole location Qtr/Sec, Twp, Rng, Mer SESW Sec 6 T2S-R97W 6PM

Latitude \_\_\_\_\_ Distance to nearest property line \_\_\_\_\_ Distance to nearest bldg, public rd, utility or RR \_\_\_\_\_

Longitude \_\_\_\_\_ Distance to nearest lease line 1350 Is location in a High Density Area (rule 603b)? Yes/No NO

Ground Elevation \_\_\_\_\_ Distance to nearest well same formation 157 Surface owner consultation date: \_\_\_\_\_

**GPS DATA:**  
Date of Measurement \_\_\_\_\_ PDOP Reading \_\_\_\_\_ Instrument Operator's Name \_\_\_\_\_

☐ **CHANGE SPACING UNIT**  
Formation \_\_\_\_\_ Formation Code \_\_\_\_\_ Spacing order number \_\_\_\_\_ Unit Acreage \_\_\_\_\_ Unit configuration \_\_\_\_\_

☐ **Remove from surface bond**  
Signed surface use agreement attached \_\_\_\_\_

☐ **CHANGE OF OPERATOR (prior to drilling):**  
Effective Date: \_\_\_\_\_  
Plugging Bond: ☐ Blanket ☐ Individual

☐ **CHANGE WELL NAME** **NUMBER**  
From: \_\_\_\_\_  
To: \_\_\_\_\_  
Effective Date: \_\_\_\_\_

☐ **ABANDONED LOCATION:**  
Was location ever built? ☐ Yes ☐ No  
Is site ready for inspection? ☐ Yes ☐ No  
Date Ready for inspection: \_\_\_\_\_

☐ **NOTICE OF CONTINUED SHUT IN STATUS**  
Date well shut in or temporarily abandoned: \_\_\_\_\_  
Has Production Equipment been removed from site? ☐ Yes ☐ No  
MIT required if shut in longer than two years. Date of last MIT \_\_\_\_\_

☐ **SPUD DATE:** \_\_\_\_\_

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** \*submit cbl and cement job summaries  
Method used \_\_\_\_\_ Cementing tool setting/perf depth \_\_\_\_\_ Cement volume \_\_\_\_\_ Cement top \_\_\_\_\_ Cement bottom \_\_\_\_\_ Date \_\_\_\_\_

☐ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.  
Final reclamation will commence on approximately \_\_\_\_\_ ☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☒ Notice of Intent Approximate Start Date: 2/3/2011 ☐ Report of Work Done Date Work Completed: \_\_\_\_\_

**Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)**

<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input checked="" type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other: _____	for Spills and Releases

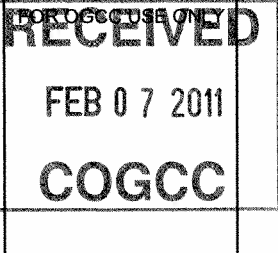
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Howard Harris Date: 2/3/11 Email: Howard.Harris@Williams.Com  
Print Name: Howard Harris Title: Sr. Regulatory Specialist

COGCC Approved: [Signature] Title PE Date: 3-9-11

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



1. OGCC Operator Number:	96850	API Number:	05-103-11489-00
2. Name of Operator:	Williams Production RMT Co		OGCC Facility ID #
3. Well/Facility Name:	Federal	Well/Facility Number:	RGU 523-6-29
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	NESW Sec 6 T2S-R97W		

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Williams request permission to change the BHL as indicated on page 1  
36# 9 5/8" Sfc Csg depth will change from 3364' to 3126', Cement to surface.  
11.6# 4 1/2" production casing will change from 12033' to 12054, Cement 200' above top mesaverde.

R. 97 W.

RECEIVED

FEB 07 2011

COGCC

SCALE 1" = 1000'

T. 2 S.

**LATITUDE (NAD 83)**  
NORTH 39.904658 DEG.  
**LONGITUDE (NAD 83)**  
WEST 108.325481 DEG.

**NORTHING (NAD 83)**  
1766732.95  
**EASTING (NAD 83)**  
2207405.45

**BASIS OF BEARING/DATUM**

ALL BEARINGS ARE GRID BEARINGS OF THE SPCS CO, NORTH ZONE, NAD 27. THE BASIS OF GRID BEARING IS THE WEST LINE OF THE SW 1/4 OF SEC. 6, BEING MONUMENTED WITH GLO BC'S. THAT BEARING BEING N 03°10'15" E.

**FEDERAL RGU**  
**523-6-297**

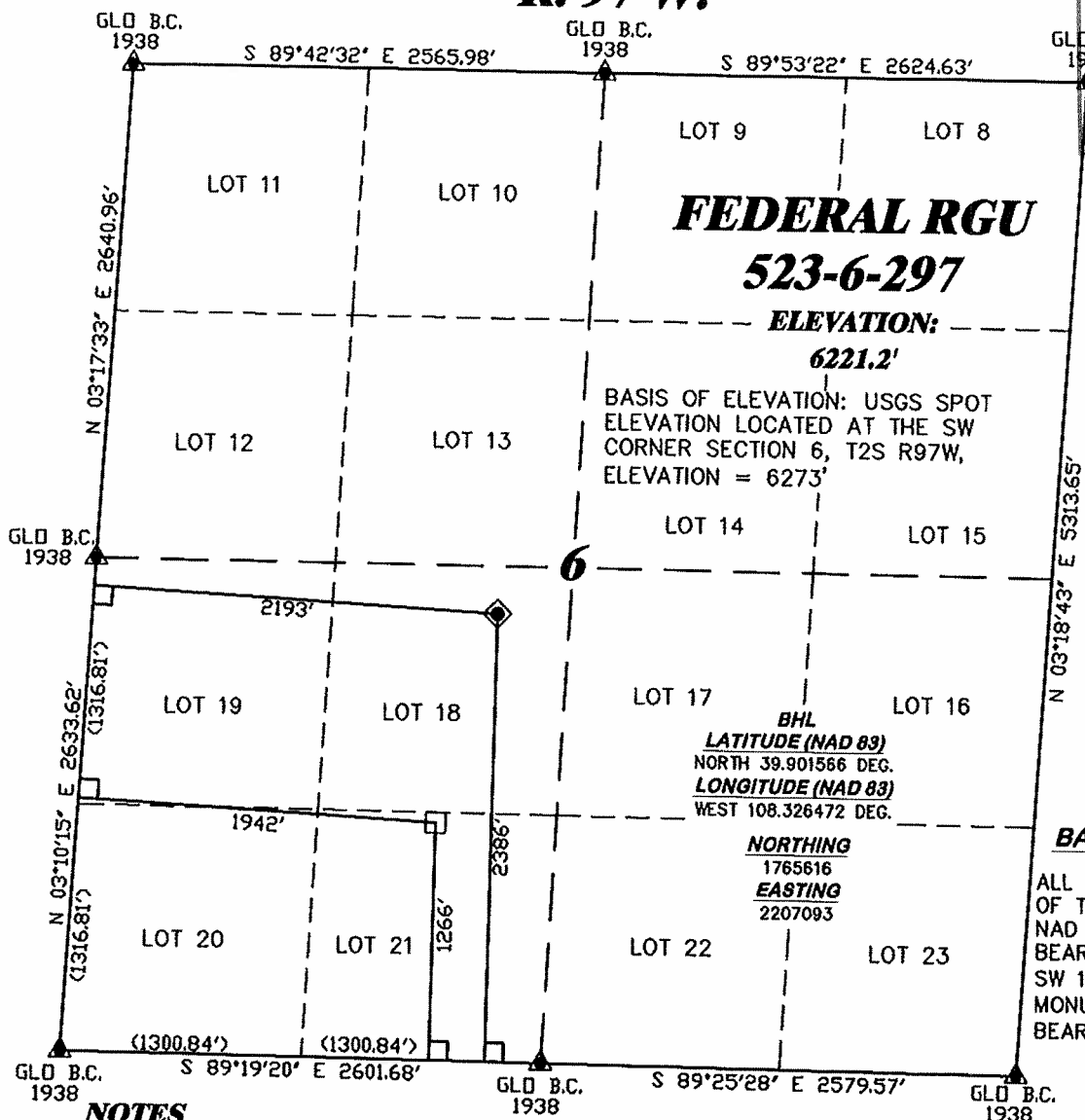
**ELEVATION:**

**6221.2'**

BASIS OF ELEVATION: USGS SPOT ELEVATION LOCATED AT THE SW CORNER SECTION 6, T2S R97W, ELEVATION = 6273'

**BHL**  
**LATITUDE (NAD 83)**  
NORTH 39.901566 DEG.  
**LONGITUDE (NAD 83)**  
WEST 108.326472 DEG.

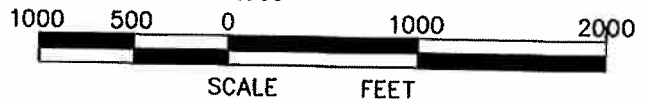
**NORTHING**  
1765616  
**EASTING**  
2207093



**NOTES**

HIGH PLATEAU DESERT  
EXISTING WELL FEATURES WITHIN  
400' RADIUS OF WELL SITE.

GPS OPERATOR JAMES SEAL  
OBSERVED A PDOP OF 1.6.  
ALL GPS OBSERVATIONS ARE IN  
COMPLIANCE WITH COGCC RULE No.215.

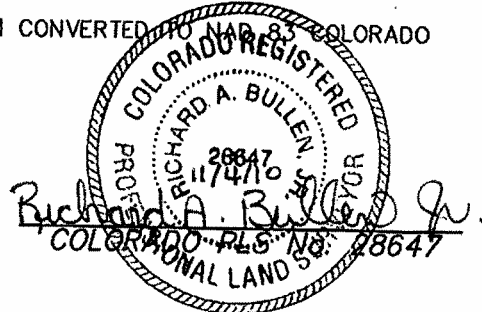


**SURVEYOR'S STATEMENT**

I, RICHARD A. BULLEN JR., AN EMPLOYEE AND AGENT ON BEHALF OF D.R. GRIFFIN & ASSOCIATES, INC. STATE THE PLAT HEREON IS A CORRECT REPRESENTATION OF A SURVEY MADE UNDER MY SUPERVISION ON FEBRUARY 8, 2010 OF THE SHOWN FEDERAL RGU 523-6-297. FIELD SURVEY DATUM IS NAD 27 COLORADO NORTH. VALUES HAVE BEEN CONVERTED TO NAD 83 COLORADO CENTRAL (X,Y) FOR PURPOSES OF THIS PLAT.

**LEGEND**

- ◆ WELL LOCATION
- BOTTOM HOLE LOC. (APPROX)
- FOUND MONUMENT
- ▲ PREVIOUSLY FOUND MONUMENT



FEDERAL RGU 23-6-297 PAD



**RIFFIN & ASSOCIATES, INC.**  
1414 ELK ST., ROCK SPRINGS, WY 82901

(307) 362-5028

**DRAWN:** 3/23/09 - MMM

**SCALE:** 1" = 1000'

**REVISED:** 11/04/10 - RAB

**DRG JOB No.** 12455

**MOVED BHL**

**EXHIBIT 1**

**PLAT OF AS-BUILT LOCATION**  
**FOR**

**WILLIAMS PRODUCTION RMT COMPANY**

**2386' F/SL & 2193' F/WL, NESW, SECTION 6,**  
**T. 2 S., R. 97 W., 6th P.M.**  
**RIO BLANCO COUNTY, COLORADO**

GEOLOGIC & DRILLING PROGNOSIS

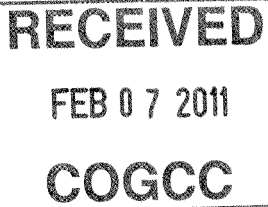
WELL NAME:

Federal RGU 523-6-297  
Directional  
B3 Slot

LOCATION: Sec. 6-T2S-R97W  
Ryan Gulch Unit

Surface: 2207405.5 1766733.0 X:Y  
-108.3254810 39.9046580 Long/Lat  
Bottom hole: 2207092.5 1765615.9 X:Y  
-108.3264724 39.9015663 Long/Lat

Note: See plat for footages  
Hardline Notes: NONE



Rig: Frontier 11

KB: 28

COUNTY: RIO BLANCO

STATE: COLORADO

ELEVATION: PAD: 6222

GROUND: n/a

KELLY BUSHING: 6250

ESTIMATE TOPS:

Formation	MD	TVD (Surface)	TVD (Subsea)	Formation Notes
Uinta	surface			
Green River Fm	652	650	5,600	
A Groove	820	815	5,435	Cement basket @ 1050'
B Groove	1014	1,005	5,245	Tapered surface from 14.75" to 13.5" @ 1100'
Dissolution Surface	1293	1,280	4,970	Cement stage tool @ ± 1150'
Garden Gulch	2219	2,190	4,060	Cement basket @ 1300' & 1450'
Orange Marker	2397	2,365	3,885	
Wasatch	2626	2,590	3,660	Surface casing @ 3126'
G' Sand	5067	4,990	1,260	Possible loss circulation zone
Ft. Union	5423	5,340	910	
Ohio Creek	6794	6,690	-440	
Mesaverde	7114	7,010	-760	
Top Gas	7554	7,450	-1,200	
Cameo Coals	10479	10,375	-4,125	
Rollins SS	10829	10,725	-4,475	
Cozzette	10984	10,880	-4,630	
Corcoran	11204	11,100	-4,850	
Upper Sego	11564	11,460	-5,210	
Lower Sego	11804	11,700	-5,450	
TD	12054	11,950		

vertical hole

from top of

Mesaverde

to TD

MUD LOGGING: Type: Remote Gas Unit  
Interval: Surface to TD

OPEN HOLE LOGS: Specifics: None  
Interval:  
Training well:

CASED HOLE LOGS: Specifics: Baker RPM-3D Pulsed Neutron from plugged back depth to 6600', GR to surface  
Processing: Emulation Triple Combo Using OH logs and training well  
Cement Evaluation: Baker Hughes Radial Bond Log c/w CCL/GR from plugged back depth to surface shoe

CSG & CEMENT PROGRAM:

	csq size (in)	depth set at	hole size (in)	cmt sxs	WOC (hrs)
Conductor	18	80	30	To surface - Ready Mix	
Surface	9 5/8	3126	14.75/13.5	1253	8
Intermediate					
Liner or Production	4 1/2	12054	8.75/7.875	As determined at TD	

MUD PROGRAM:

FROM	TO	TYPE MUD	#/GAL	VIS	WL	CHEMICALS
0	3126	Spud/RCA	Water	45-50		
3126	12054	Water Based	8.0-9.5	40-50	8-10	

(Write mud added to system on tour sheets and report all mud mixed and daily cost in morning report)

LOST CIRCULATION:

Report depth and bbls of mud lost on morning report and tour sheet - Any severe lost circulation problems should be reported immediately to well supervisor.

SURVEYS:

Run every 100' on surface hole and trips unless otherwise instructed.

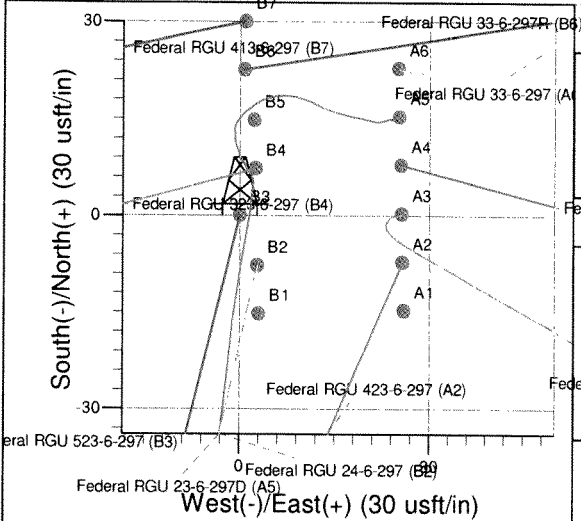
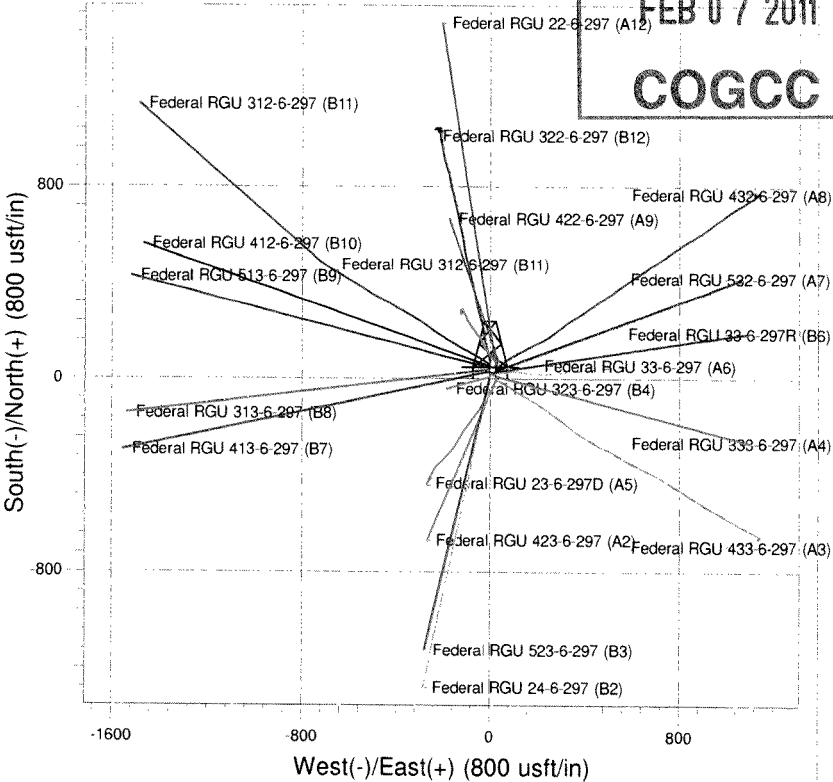
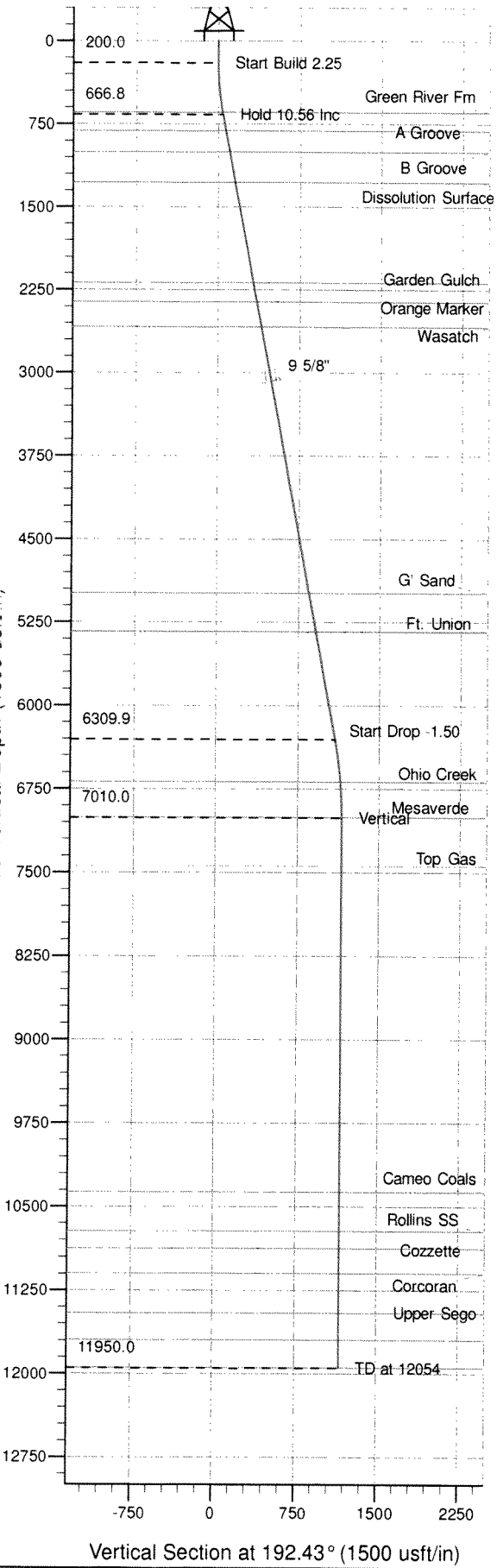
WILLIAMS GEOLOGISTS:

	Office	Home	Cell
Eric Stenberg	303- 606-4057	303-471-0091	303-517-9636
Art Rowley	303- 606-4397	eric.stenberg@williams.com 303-447-9695	303-408-4536
		art.rowley@williams.com	



Surface Location: RGU 23-6-297 Pad  
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone  
Ground Elevation: 6222.0  
+N/-S    +E/-W    Northing    Easting    Latitude    Longitude    Slot  
0.0    0.0    1766732.95    2207405.45    39° 54' 16.768 N 108° 19' 31.733 W    B3  
KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) )

RECEIVED  
FEB 07 2011  
COGCC

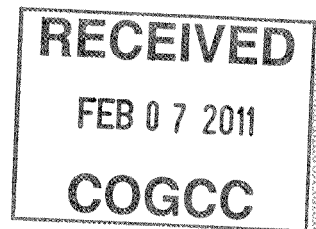


Project: RG 06-02S-097W  
Site: RGU 23-6-297 Pad  
Well: Federal RGU 523-6-297  
Plan #1 12Dec08 kjs

↑ M Azimuths to True North  
Magnetic North: 11.06°  
Magnetic Field  
Strength: 52851.2snT  
Dip Angle: 66.13°  
Date: 6/8/2007  
Model: IGRF2005-10

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.000	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.000	0.0	
3	669.4	10.56	193.87	666.8	-41.9	-10.3	2.25	193.869	43.1	
4	6409.8	10.56	193.87	6309.9	-1063.4	-262.5	0.00	0.000	1095.0	
5	7113.9	0.00	0.00	7010.0	-1126.2	-278.1	1.50	180.000	1159.7	Mesaverde (25' Radius) Federal RGU 523-6-297
6	12053.9	0.00	0.00	11950.0	-1126.2	-278.1	0.00	0.000	1159.7	

ANNOTATIONS										
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSecl	Departure	Annotation		
200.0	200.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.25		
666.8	669.4	10.56	193.87	-41.9	-10.3	43.1	43.1	Hold 10.56 Inc		
6309.9	6409.8	10.56	193.87	-1063.4	-262.5	1095.0	1095.3	Start Drop -1.50		
7010.0	7113.9	0.00	0.00	-1126.2	-278.1	1159.7	1160.0	Vertical		
11950.0	12053.9	0.00	0.00	-1126.2	-278.1	1159.7	1160.0	TD at 12054		



# **PICEANCE HL NAD 83**

**RG 06-02S-097W**

**RGU 23-6-297 Pad**

**Federal RGU 523-6-297 - Slot B3**

**Federal RGU 523-6-297**

**Plan: Plan #1 12Dec08 kjs**

## **Standard Planning Report - Geographic**

**25 October, 2010**

Williams  
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RGU 523-6-297 (B3) - Slot B3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jjb)
Project:	RG 06-02S-097W	MD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jjb)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	Federal RGU 523-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Federal RGU 523-6-297		
Design:	Plan #1 12Dec08 kjs		

Project	RG 06-02S-097W, Rio Blanco County, CO, RG 06-02S-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	RGU 23-6-297 Pad		
Site Position:		Northing:	1,766,747.40 usft
From:	Map	Easting:	2,207,431.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	39° 54' 16.919 N
		Longitude:	108° 19' 31.408 W
		Grid Convergence:	-1.782 °

Well	Federal RGU 523-6-297 - Slot B3		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	Federal RGU 523-6-297		
----------	-----------------------	--	--

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2005-10	6/8/2007	11.058	66.130	52,851

Design	Plan #1 12Dec08 kjs		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			192.43

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.000	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.000	
669.4	10.56	193.87	666.8	-41.9	-10.3	2.25	2.25	0.00	193.869	
6,409.8	10.56	193.87	6,309.9	-1,063.4	-262.5	0.00	0.00	0.00	0.000	
7,113.9	0.00	0.00	7,010.0	-1,126.2	-278.1	1.50	-1.50	0.00	180.000	Mesaverde (25' Radiu
12,053.9	0.00	0.00	11,950.0	-1,126.2	-278.1	0.00	0.00	0.00	0.000	

Williams  
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RGU 523-6-297 (B3) - Slot B3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jib)
Project:	RG 06-02S-097W	MD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jib)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	Federal RGU 523-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Federal RGU 523-6-297		
Design:	Plan #1 12Dec08 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	1,766,732.95	2,207,405.45	39° 54' 16.768 N	108° 19' 31.733 W
200.0	0.00	0.00	200.0	0.0	0.0	1,766,732.95	2,207,405.45	39° 54' 16.768 N	108° 19' 31.733 W
669.4	10.56	193.87	666.8	-41.9	-10.3	1,766,691.41	2,207,393.81	39° 54' 16.354 N	108° 19' 31.865 W
6,409.8	10.56	193.87	6,309.9	-1,063.4	-262.5	1,765,678.21	2,207,109.96	39° 54' 6.259 N	108° 19' 35.101 W
7,113.9	0.00	0.00	7,010.0	-1,126.2	-278.1	1,765,615.90	2,207,092.50	39° 54' 5.638 N	108° 19' 35.300 W
12,053.9	0.00	0.00	11,950.0	-1,126.2	-278.1	1,765,615.90	2,207,092.50	39° 54' 5.638 N	108° 19' 35.300 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	7,010.0	-1,126.2	-278.1	1,765,615.90	2,207,092.50	39° 54' 5.638 N	108° 19' 35.300 W
- plan hits target center									
- Circle (radius 25.0)									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
3,126.0	3,081.7	9 5/8"	9.625	13.500	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
652.4	650.0	Green River Fm				
820.2	815.0	A Groove				
1,013.5	1,005.0	B Groove				
1,293.2	1,280.0	Dissolution Surface				
2,218.9	2,190.0	Garden Gulch				
2,396.9	2,365.0	Orange Marker				
2,625.8	2,590.0	Wasatch				
5,067.2	4,990.0	G' Sand				
5,423.2	5,340.0	Ft. Union				
6,793.5	6,690.0	Ohio Creek				
7,113.9	7,010.0	Mesaverde				
7,553.9	7,450.0	Top Gas				
10,478.9	10,375.0	Cameo Coals				
10,828.9	10,725.0	Rollins SS				
10,983.9	10,880.0	Cozzette				
11,203.9	11,100.0	Corcoran				
11,563.9	11,460.0	Upper Sego				
11,803.9	11,700.0	Lower Sego				
12,053.9	11,950.0	TD		0.000		



Williams  
Planning Report - Geographic

Database:	Compass R5000 WIN AUTH	Local Co-ordinate Reference:	Well Federal RGU 523-6-297 (B3) - Slot B3
Company:	PICEANCE HL NAD 83	TVD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jib)
Project:	RG 06-02S-097W	MD Reference:	KELLY BUSHING @ 6250.0usft (Frontier 11 (28' RKB) jib)
Site:	RGU 23-6-297 Pad	North Reference:	True
Well:	Federal RGU 523-6-297	Survey Calculation Method:	Minimum Curvature
Wellbore:	Federal RGU 523-6-297		
Design:	Plan #1 12Dec08 kjs		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Start Build 2.25
669.4	666.8	-41.9	-10.3	Hold 10.56 Inc
6,409.8	6,309.9	-1,063.4	-262.5	Start Drop -1.50
7,113.9	7,010.0	-1,126.2	-278.1	Vertical
12,053.9	11,950.0	-1,126.2	-278.1	TD at 12054