

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
2. Name of Operator: Williams Production RMT Company LLC	Phone: 303-606-4086
3. Address: 1001 17th St., Suite 1200	Fax: 303-629-8268
City: Denver State: CO Zip: 80202	
5. API Number 05-045-19547-00	OGCC Facility ID Number
6. Well/Facility Name: Federal	7. Well/Facility Number: PA 313-29
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESW (Lot 12) Sec 29 T6S-R95W	
9. County: Garfield	10. Field Name: Parachute
11. Federal, Indian or State Lease Number: COC62162	

Complete the Attachment Checklist

	OP	OGCC
Survey Plat	X	X
Directional Survey	X	X
Surface Eqpm Diagram		
Technical Info Page	X	X
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 Surface Footage from Exterior Section Lines:	622	FSL	2208	FWL
Change of Surface Footage to Exterior Section Lines:	605	FSL	2233	FWL
Change of Bottomhole Footage from Exterior Section Lines:	2002	FSL	632	FWL
Change of Bottomhole Footage to Exterior Section Lines:	2189	FSL	658	FWL

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer NWSW (Lot 10) Sec 29 T6S R95W

Latitude 39.489914 Distance to nearest property line 2513 Distance to nearest bldg, public rd, utility or RR 5577

Longitude 108.023180 Distance to nearest lease line 658 Is location in a High Density Area (rule 603b)? Yes/No NO

Ground Elevation 5675 Distance to nearest well same formation 316 Surface owner consultation date:

☐ **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**

☐ **Report of Work Done**

Approximate Start Date: 1/1/12

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 checked="" type="checkbox"/> Other: Change BHL & SHL	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: 12/12/11 Email: Howard.Harris@Williams.com

Print Name: Howard Harris Title: Sr. Regulatory Specialist

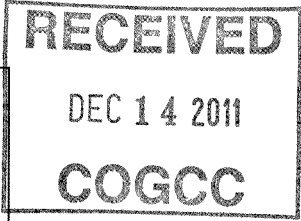
COGCC Approved: NWA Engineering Date: 1/23/2012

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY



1. OGCC Operator Number:	96850	API Number:	05-045-19547-00
2. Name of Operator:	Williams Production RMT Company LLCOGCC Facility ID #		
3. Well/Facility Name:	Federal	Well/Facility Number:	PA 313-29
4. Location (QtrQtr, Sec, Twp, Rng, Meridian):	SESW (Lot 12)Sec 29 T6S-R95W		

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.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS

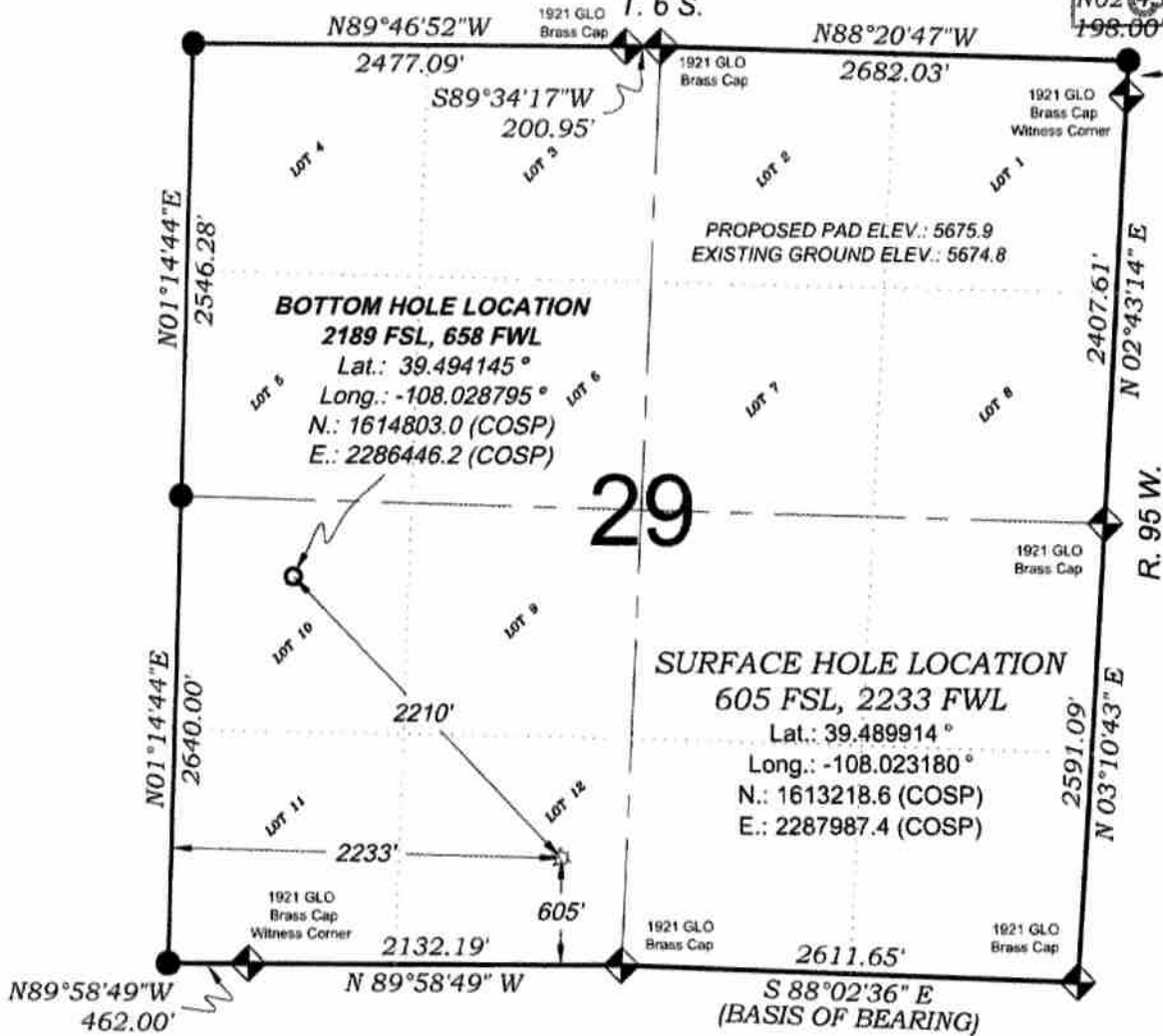
Due to an FMI log being ran on a prior well drilled on this pad, the surface hole location and bottomhole location will need to be moved within accordance to that shown on the front page. The surface casing depth will be changed to 2375', Cmt w/606 SX. TMD will change to 7937'. 4 1/2" production casing will be set at 7937' with 630 sx cmt.
See attached directional plan, prog and location plat

RECEIVED

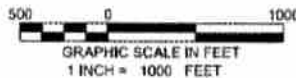
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COGCC

Federal PA 313-29



THERE ARE NO VISIBLE IMPROVEMENTS WITHIN 400' OF THIS LOCATION



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

REFERENCES

- 1) DEPENDENT RESURVEY T. 6 S., R. 95 W., 6th P.M. (GLO PLAT)
- 2) U.S.G.S. QUAD: PARACHUTE, CO

NOTES

- 1) ELEVATIONS BASED ON N.A.V.D. 1988 PUBLISHED COORDINATES.
- 2) LATITUDES AND LONGITUDES ARE BASE 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 2.37 ON SURVEY POINT NUMBER 92925.
- 6) SURFACE AND BOTTOM HOLE LOCATIONS ARE MEASURED 90° FROM SECTION LINES

WELL LOCATION PLAT Prepared for:

Williams. Williams Production, RMT

SE1/4 SW1/4, SECTION 29
T. 6 S., R. 95 W. of the 6th. P.M.
GARFIELD COUNTY, COLORADO

SURVEY DATE: 11/18/08
MAP DATE: 9/21/11
SCALE: 1" = 1000'
PLAT: 1 of 9
PROJECT: Williams Valley

214 Gold Third Street
P.O. Box 616100
Phoenix, Arizona 85061-0100
PH: (602) 835-2720
FAX: (602) 835-2770



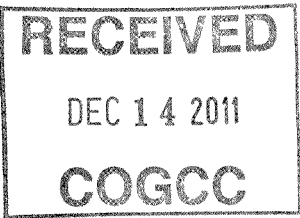
BOOKCLIFF
Survey Services, Inc.

GEOLOGIC & DRILLING PROGNOSIS

Prepared 21-Mar-10 KSR
Updated BHL footages & csg pt: 4-Oct-11 sda

WELL NAME: PA 313-29
Directional from the DOE 3-W-29 pad

STATE: Colorado
COUNTY: Garfield
LOCATION: Sec. 29 T 6 S R 95 W: 10 ACRE FED
TYPE OF UNIT: Unspaced Section
SURFACE HOLE: 605' FSL, 2233' FWL
BOTTOM HOLE: 2189' FSL, 658' FWL
FEDERAL EA: Within scope of 2002 WW GAP EA
WASATCH CEMENT: Yes



ELEVATION (ft): PAD: 5676
GROUND: 5675
KELLY BUSHING: 5702

RIG INFORMATION:
RIG NAME: Nabors 577
KB HEIGHT (ft): 26

Formation	TVD	MD	Comments
Wasatch	Surface	Surface	
Top of "G" Sand	1972	2141	
Base of "G" Sand	2072	2258	
Mesaverde	4027	4536	
Approx. Top Gas	5337	5885	(Water zones may be encountered within the upper portion of the Mesaverde)
Cameo Coals	6782	7330	
Rollins SS	7337	7885	
TD	7487	7937	If pay encountered within 150' of Rollins, drill 150' rathole below base last pay. If no pay is encountered within 150' of the Rollins, TD well at 7910 ft (md)

MUD LOGGING (md): 2375.1 to TD. (One man or computer unit with at least total gas and drill rate.)

LOGGING PROGRAM: Type of Log: Cased-hole Pulsed Neutron log (e.g. RMTE or RPM)
Interval (md): GR from TD to surface
Pulsed Neutron from TD to 200ft above the Mesaverde top (md)

Strap drill pipe by latest trip prior to TD

CSG & CEMENT PROGRAM: SHOE TEST REQUIRED

	csg size (in)	depth set at (tvd)	depth set at (md)	hole size (in)	Approximate Cmt (ft3) Tail	Tail Yield ft³/Sx	Approx. Sx Tail	Approximate Cmt (ft3) Lead	Lead Yield ft³/Sx	Approx. SxLead	WOC (hrs)
Conductor:											
Surface:	9 5/8"	2172	2375.1	13 1/2"	352	2.11	167	1041	2.37	439	8
Intermediate:											
Liner or Production:	4 1/2"	7487	7937	7 7/8"	589	1.33	443	338	1.81	187	
					Surface (sacks): 606		Prod (Sacks): 630				

Surface cement volumes are calculated w/ 20% excess in gauge hole,
Production cement: tail is calculated to be 300 ft above geologists pick of top of gas, lead TOC is calculated 300 ft above top of MVRD. 10% Excess added.

ANTICIPATED PRESSURES

MASP	Prod Csg Test Pressure	Anticipated BHP	Pressure (psi)
2,150	7,000	4,867	

MUD PROGRAM: (Do not deviate from mud engineer's recommendation without prior consent from Parachute office)

FROM (md)	TO (md)	TYPE MUD	#/GAL	VIS	WL	CHEMICALS
0	2375	Spud	9.0-9.5	45-50		
2375	7937.2	LSND	9.0-12.5	40-50	8-10	Visease & 507

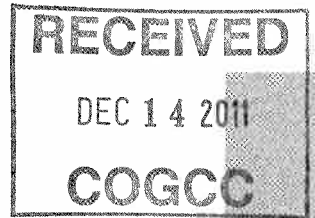
(Write mud added to system on tour sheets and report all mud mixed and daily cost in morning report)

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.

(note: if there are questions concerning TD or logging, please call Geologist)

Williams Geologists:	Office	Cell	Home
Susan Anderson (PA/SP wells)	303-606-4069	303-385-7529	303-751-6019
Kim Roberts (PA/SP Wells)	303-629-8438	303-646-7411	303-979-2709
Marsha Satorius-Fox (RWF wells)	303-629-8421	303-507-9828	
Ryan Kowalski (GM/SG Wells)	303-606-4051	303-319-4329	303-888-2113
Trevor Gates (KP Wells)	303-629-8431	720-254-4913	
Scott Meade		970-260-8131	



PICEANCE VLY NAD 83

PA 29-06S-095W

DOE 3-W-29 Pad

PA 313-29 - Slot B6

Wellbore #1

Plan: Plan #3 31Aug11 kjs

Standard Planning Report - Geographic

30 September, 2011

Williams
Planning Report - Geographic

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COGCC

Database: COMPASS-PICEANCE
Company: PICEANCE VLY NAD 83
Project: PA 29-06S-095W
Site: DOE 3-W-29 Pad
Well: PA 313-29
Wellbore: Wellbore #1
Design: Plan #3 31Aug11 kjs

Local Co-ordinate Reference: Well PA 313-29 - Slot B6
TVD Reference: WELL @ 5702.0usft (Nabors 577 (26') kjs)
MD Reference: WELL @ 5702.0usft (Nabors 577 (26') kjs)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	PA 29-06S-095W, Garfield County, CO		
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	DOE 3-W-29 Pad		
Site Position:		Northing:	1,613,247.00 usft
From:	Map	Easting:	2,287,962.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	39° 29' 23.965 N
		Longitude:	108° 1' 23.779 W
		Grid Convergence:	-1.591 °

Well	PA 313-29 - Slot B6		
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	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	2/3/2009	10.666	65.794	52,486

Design	Plan #3 31Aug11 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
			(°)
			314.20

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(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	
140.0	0.00	0.00	140.0	0.0	0.0	0.00	0.00	0.00	0.000	
473.3	10.00	280.00	471.6	5.0	-28.6	3.00	3.00	0.00	280.000	
1,426.6	31.27	315.92	1,361.3	200.0	-285.9	2.50	2.23	3.77	48.908	
4,221.2	31.27	315.92	3,749.9	1,242.1	-1,295.1	0.00	0.00	0.00	0.000	
5,784.8	0.00	0.00	5,237.0	1,541.1	-1,584.7	2.00	-2.00	0.00	180.000	
8,034.8	0.00	0.00	7,487.0	1,541.1	-1,584.7	0.00	0.00	0.00	0.000	TD / PBHL PA 313-29

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 313-29 - Slot B6
Company:	PICEANCE VLY NAD 83	TVD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Project:	PA 29-06S-095W	MD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Site:	DOE 3-W-29 Pad	North Reference:	True
Well:	PA 313-29	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 31Aug11 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	1,613,218.60	2,287,987.40	39° 29' 23.691 N	108° 1' 23.448 W
140.0	0.00	0.00	140.0	0.0	0.0	1,613,218.60	2,287,987.40	39° 29' 23.691 N	108° 1' 23.448 W
Start Build 3.00									
473.3	10.00	280.00	471.6	5.0	-28.6	1,613,224.43	2,287,958.98	39° 29' 23.741 N	108° 1' 23.812 W
Begin 2.5°/100 Build & Turn									
1,426.6	31.27	315.92	1,361.3	200.0	-285.9	1,613,426.42	2,287,707.14	39° 29' 25.668 N	108° 1' 27.095 W
Hold 31.27 Inclination									
2,141.1	31.27	315.92	1,972.0	466.4	-544.0	1,613,699.90	2,287,456.63	39° 29' 28.301 N	108° 1' 30.386 W
Top of "G" Sand									
2,258.1	31.27	315.92	2,072.0	510.0	-586.2	1,613,744.69	2,287,415.61	39° 29' 28.732 N	108° 1' 30.925 W
Base of "G" Sand									
2,375.1	31.27	315.92	2,172.0	553.7	-628.5	1,613,789.47	2,287,374.59	39° 29' 29.163 N	108° 1' 31.464 W
9 5/8"									
4,221.2	31.27	315.92	3,749.9	1,242.1	-1,295.1	1,614,496.10	2,286,727.32	39° 29' 35.967 N	108° 1' 39.968 W
Start Drop -2.00									
4,535.6	24.98	315.92	4,027.0	1,348.5	-1,398.2	1,614,605.32	2,286,627.27	39° 29' 37.018 N	108° 1' 41.283 W
Mesaverde									
5,784.8	0.00	0.00	5,237.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
Vertical									
5,884.8	0.00	0.00	5,337.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
Top Gas - Approx. Top Gas - Top Gas (25' Radius) PA 313-29									
7,329.8	0.00	0.00	6,782.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
Cameo Coals									
7,884.8	0.00	0.00	7,337.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
Rollins SS									
7,937.2	0.00	0.00	7,389.4	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
TD									
8,034.8	0.00	0.00	7,487.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
TD at 8034.8 - TD / PBHL PA 313-29									

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									
Top Gas (25' Radius) P/	0.00	0.00	5,337.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
- plan hits target center									
- Circle (radius 25.0)									
TD / PBHL PA 313-29	0.00	0.00	7,487.0	1,541.1	-1,584.7	1,614,803.00	2,286,446.20	39° 29' 38.921 N	108° 1' 43.662 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,375.1	2,172.0	9 5/8"	9.625	12.250

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 313-29 - Slot B6
Company:	PICEANCE VLY NAD 83	TVD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Project:	PA 29-06S-095W	MD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Site:	DOE 3-W-29 Pad	North Reference:	True
Well:	PA 313-29	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 31Aug11 kjs		

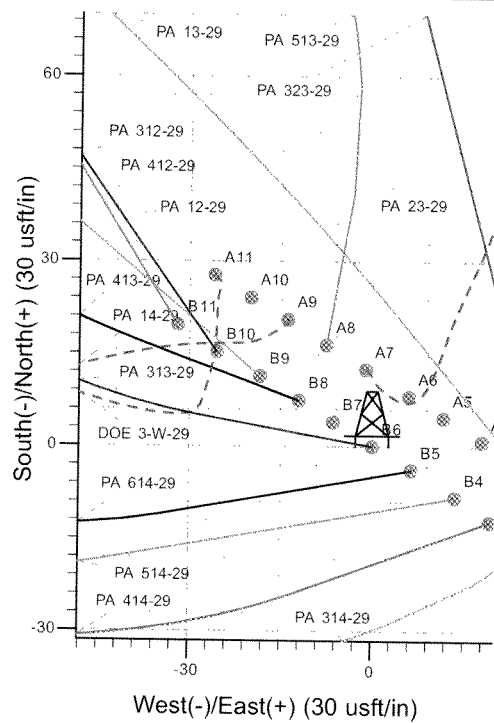
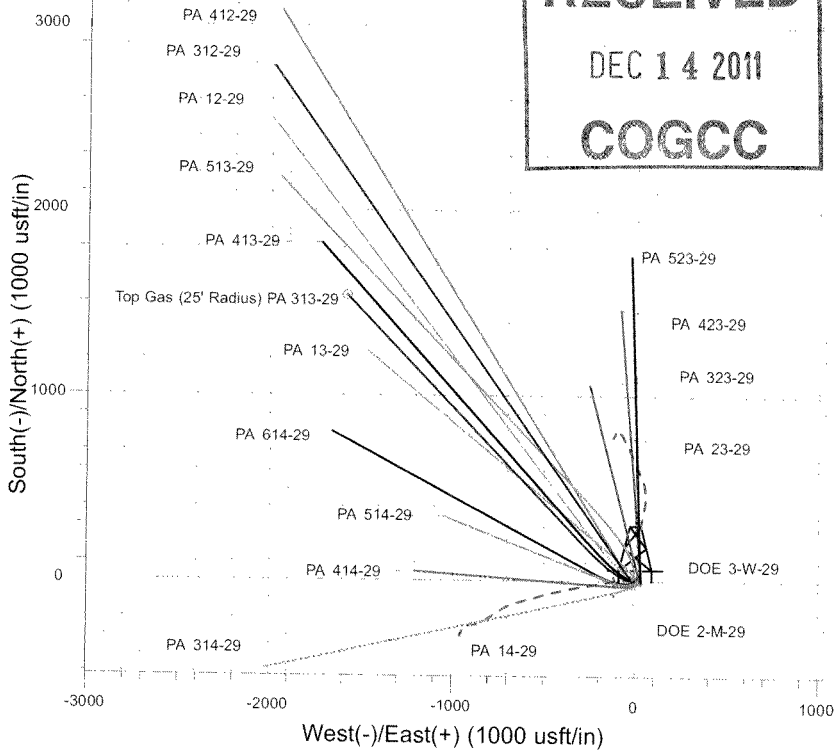
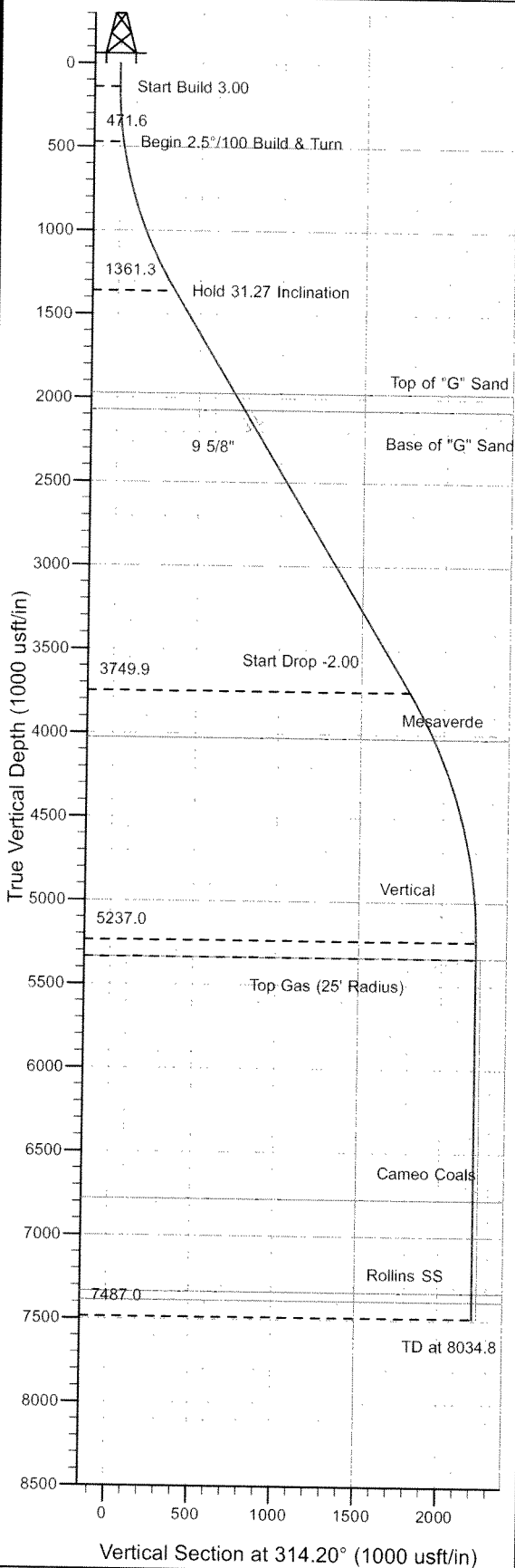
Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,141.1	1,972.0	Top of "G" Sand				
2,258.1	2,072.0	Base of "G" Sand				
4,535.6	4,027.0	Mesaverde				
5,884.8	5,337.0	Approx. Top Gas				
7,329.8	6,782.0	Cameo Coals				
7,884.8	7,337.0	Rollins SS				
7,937.2	7,389.4	TD		0.000		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
140.0	140.0	0.0	0.0	Start Build 3.00
473.3	471.6	5.0	-28.6	Begin 2.5°/100 Build & Turn
1,426.6	1,361.3	200.0	-285.9	Hold 31.27 Inclination
4,221.2	3,749.9	1,242.1	-1,295.1	Start Drop -2.00
5,784.8	5,237.0	1,541.1	-1,584.7	Vertical
5,884.8	5,337.0	1,541.1	-1,584.7	Top Gas
8,034.8	7,487.0	1,541.1	-1,584.7	TD at 8034.8



Well Name: PA 313-29
Surface Location: DOE 3-W-29 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5676.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1613218.60 2287987.40 39° 29' 23.691 N 108° 1' 23.448 W B6
WELL @ 5702.0usft (Nabors 577 (26') kjs)

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DEC 14 2011
COGCC



Project: PA 29-06S-095W
Site: DOE 3-W-29 Pad
Well: PA 313-29
Plan #3 31Aug11 kjs

T M Azimuths to True North
Magnetic North: 10.67°
Magnetic Field
Strength: 52485.7snT
Dip Angle: 65.79°
Date: 2/3/2009
Model: IGRF2010

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation
140.0	140.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00
471.6	473.3	10.00	280.00	5.0	-28.6	24.0	29.0	Begin 2.5°/100 Build & Turn
1361.3	1426.6	31.27	315.92	200.0	-285.9	344.4	355.5	Hold 31.27 Inclination
3749.9	4221.2	31.27	315.92	1242.1	-1295.1	1794.4	1806.2	Start Drop -2.00
5237.0	5784.8	0.00	0.00	1541.1	-1584.7	2210.4	2222.4	Vertical
5337.0	5884.8	0.00	0.00	1541.1	-1584.7	2210.4	2222.4	Top Gas
7487.0	8034.8	0.00	0.00	1541.1	-1584.7	2210.4	2222.4	TD at 8034.8