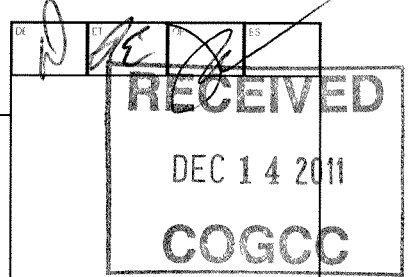


State of Colorado
Oil and Gas Conservation Commission

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



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 OP OGCC		
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 05-045-19539-00	OGCC Facility ID Number	Survey Plat	X	X
6. Well/Facility Name: Federal*	7. Well/Facility Number PA 513-29*	Directional Survey	X	X
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESW (Lot 12) Sec 29 T6S-R95W 6pm		Surface Eqpm Diagram		
9. County: Garfield*	10. Field Name: Parachute*	Technical Info Page	X	X
11. Federal, Indian or State Lease Number: COC62162*		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:	602*	FNL/FSL	2258*	FEL/FWL	
Change of Surface Footage to Exterior Section Lines:	622*	FSL*	2226*	FWL*	
Change of Bottomhole Footage from Exterior Section Lines:	2641*	FSL*	342*	FWL*	
Change of Bottomhole Footage to Exterior Section Lines:	2347*	FNL*	297*	FWL*	attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer SWNW (Lot 5) Sec 29 T6S R95W 6pm

Latitude 39.489959* Distance to nearest property line 2513* Distance to nearest bldg, public rd, utility or RR 5577*

Longitude 108.023207* Distance to nearest lease line 297* Is location in a High Density Area (rule 603b)? Yes/No NO

Ground Elevation 5675* Distance to nearest well same formation 311* Surface owner consultation date:

GPS DATA:

Date of Measurement 11/18/11* PDOP Reading 2.37* Instrument Operator's Name J. Kirkpatrick*

☐ CHANGE SPACING UNIT

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ Remove from surface bond
Signed surface use agreement attached

<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling): Effective Date: _____ Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	<input type="checkbox"/> CHANGE WELL NAME From: _____ To: _____ Effective Date: _____
--	--

<input type="checkbox"/> ABANDONED LOCATION: Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No Date Ready for Inspection: _____	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS Date well shut in or temporarily abandoned: _____ Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No MIT required if shut in longer than two years. Date of last MIT _____
---	--

<input type="checkbox"/> SPUD DATE: _____	<input type="checkbox"/> 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

<input checked="" type="checkbox"/> Notice of Intent Approximate Start Date: 1/1/12	<input type="checkbox"/> 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 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: 12/9/11 Email: Howard.Harris@Williams.com
Print Name: Howard Harris Title: Sr. Regulatory Specialist

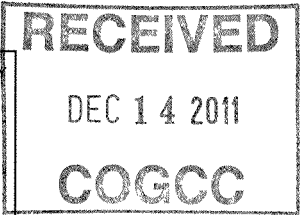
COGCC Approved: [Signature] Title: NWA Engineer Date: 1/23/12

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY



1.	OGCC Operator Number:	96850	API Number:	05-045-19539-00
2.	Name of Operator:	Williams Production RMT Company LLC OGCC Facility ID #		
3.	Well/Facility Name:	Federal	Well/Facility Number:	PA 513-29
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.

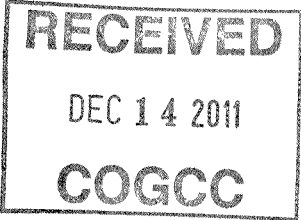
DESCRIBE PROPOSED OR COMPLETED OPERATIONS

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 2520', Cmt w/642 SX. TMD will change to 8468'. 4 1/2" production casing will be set at 8468' with 654 sx cmt.

See attached directional plan, prog and location plat

GEOLOGIC & DRILLING PROGNOSIS

Prepared 26-Mar-10 KSR
Updated BHL footages & csg pt 4-Oct-11 sda



WELL NAME: PA 513-29
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: 622' FSL, 2226' FWL
BOTTOM HOLE: 2347' FNL, 297' 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	1982	2258	
Base of "G" Sand	2082	2389	
Mesaverde	4062	4929	
Approx Top Gas	5397	6318	(Water zones may be encountered within the upper portion of the Mesaverde)
Cameo Coals	6847	7768	
Rollins SS	7397	8318	
TD	7547	8468	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 8343 ft (md)

MUD LOGGING (md): 4729 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 ft ³ /Sx	Approx Sx Tail	Approximate Cmt (ft3) Lead	Lead Yield ft ³ /Sx	Approx Sx Lead	WOC (hrs)
Conductor:											
Surface:	9 5/8"	2182	2520.1	13 1/2"	352	2.11	167	1126	2.37	475	8
Intermediate											
Liner or Production:	4 1/2"	7547	8468	7 7/8"	614	1.33	462	348	1.81	192	
					Surface (Sacks): 642		Prod (Sacks): 654				

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	4,906	

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	2520	Spud	9.0-9.5	45-50		
2520	8467.8	LSND	9.0-12.5	40-50	8-10	Visease & 507

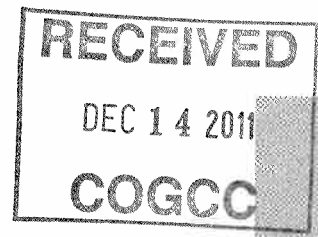
(Write mud added to system on tour sheets and report all mud mixed and daily cost in morning report)

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 513-29 - Slot A8

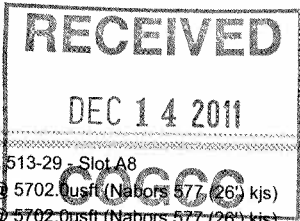
Wellbore #1

Plan: Plan #3 01Sep11 kjs

Standard Planning Report - Geographic

04 October, 2011

Williams
Planning Report - Geographic



Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 513-29 - Slot A8
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 513-29	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 01Sep11 kjs		

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	Latitude:	39° 29' 23.965 N
From:	Map	Easting:	2,287,962.20 usft	Longitude:	108° 1' 23.779 W
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in	Grid Convergence:	-1.591 °

Well	PA 513-29 - Slot A8					
Well Position	+N/-S	0.0 usft	Northing:	1,613,235.20 usft	Latitude:	39° 29' 23.853 N
	+E/-W	0.0 usft	Easting:	2,287,980.30 usft	Longitude:	108° 1' 23.544 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	5,676.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	2/3/2009	(°)	(°)	(nT)
			10.666	65.794	52,486

Design	Plan #3 01Sep11 kjs			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	318.07

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	
120.0	0.00	0.00	120.0	0.0	0.0	0.00	0.00	0.00	0.000	
405.7	10.00	10.00	404.3	24.5	4.3	3.50	3.50	0.00	10.000	
1,575.3	40.18	316.01	1,460.1	408.0	-248.0	3.00	2.58	-4.62	-65.229	
4,308.9	40.18	316.01	3,548.7	1,676.8	-1,473.1	0.00	0.00	0.00	0.000	
6,317.8	0.00	0.00	5,397.0	2,163.1	-1,942.6	2.00	-2.00	0.00	180.000	Top Gas (25' Radius)
8,467.8	0.00	0.00	7,547.0	2,163.1	-1,942.6	0.00	0.00	0.00	0.000	TD / PBHL PA 513-29

Williams
Planning Report - Geographic

Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 513-29 - Slot A8
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 513-29	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 01Sep11 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	1,613,235.20	2,287,980.30	39° 29' 23.853 N	108° 1' 23.544 W
120.0	0.00	0.00	120.0	0.0	0.0	1,613,235.20	2,287,980.30	39° 29' 23.853 N	108° 1' 23.544 W
Start Build 3.50									
405.7	10.00	10.00	404.3	24.5	4.3	1,613,259.56	2,287,985.30	39° 29' 24.096 N	108° 1' 23.489 W
Begin 3°/100 Build & Turn									
1,575.3	40.18	316.01	1,460.1	408.0	-248.0	1,613,649.88	2,287,743.69	39° 29' 27.886 N	108° 1' 26.708 W
Hold 40.18 Inclination									
2,258.3	40.18	316.01	1,982.0	725.0	-554.1	1,613,975.27	2,287,446.54	39° 29' 31.019 N	108° 1' 30.613 W
Top of "G" Sand									
2,389.2	40.18	316.01	2,082.0	785.7	-612.8	1,614,037.62	2,287,389.60	39° 29' 31.619 N	108° 1' 31.361 W
Base of "G" Sand									
2,520.1	40.18	316.01	2,182.0	846.5	-671.4	1,614,099.98	2,287,332.66	39° 29' 32.219 N	108° 1' 32.109 W
9 5/8"									
4,308.9	40.18	316.01	3,548.7	1,676.8	-1,473.1	1,614,952.15	2,286,554.44	39° 29' 40.425 N	108° 1' 42.335 W
Start Drop -2.00									
4,929.1	27.78	316.01	4,062.0	1,925.6	-1,713.3	1,615,207.57	2,286,321.17	39° 29' 42.884 N	108° 1' 45.400 W
Mesaverde									
6,317.8	0.00	0.00	5,397.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W
Top Gas - Approx. Top Gas - Top Gas (25' Radius) PA 513-29									
7,767.8	0.00	0.00	6,847.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W
Cameo Coals									
8,317.8	0.00	0.00	7,397.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W
Rollins SS									
8,467.8	0.00	0.00	7,547.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W
TD at 8467.8 - TD - TD / PBHL PA 513-29									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Gas (25' Radius) P/ - plan hits target center - Circle (radius 25.0)	0.00	0.00	5,397.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W
TD / PBHL PA 513-29 - plan hits target center - Point	0.00	0.00	7,547.0	2,163.1	-1,942.6	1,615,451.30	2,286,098.60	39° 29' 45.231 N	108° 1' 48.325 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,520.1	2,182.0	9 5/8"	9.625	12.250	

Williams
Planning Report - Geographic

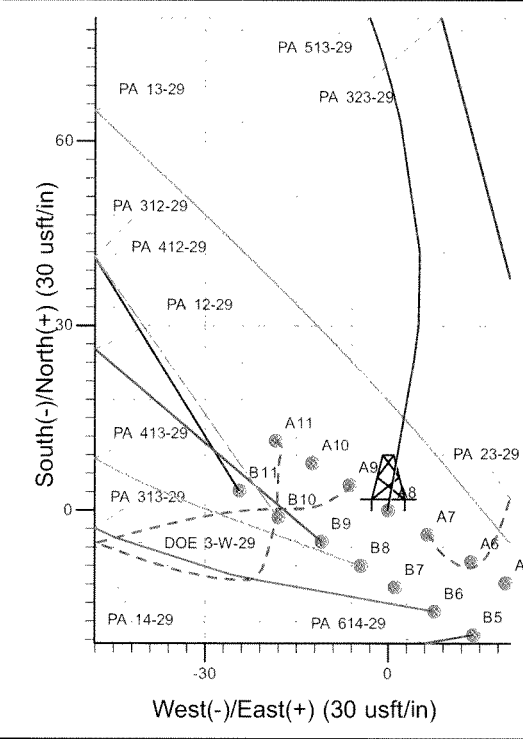
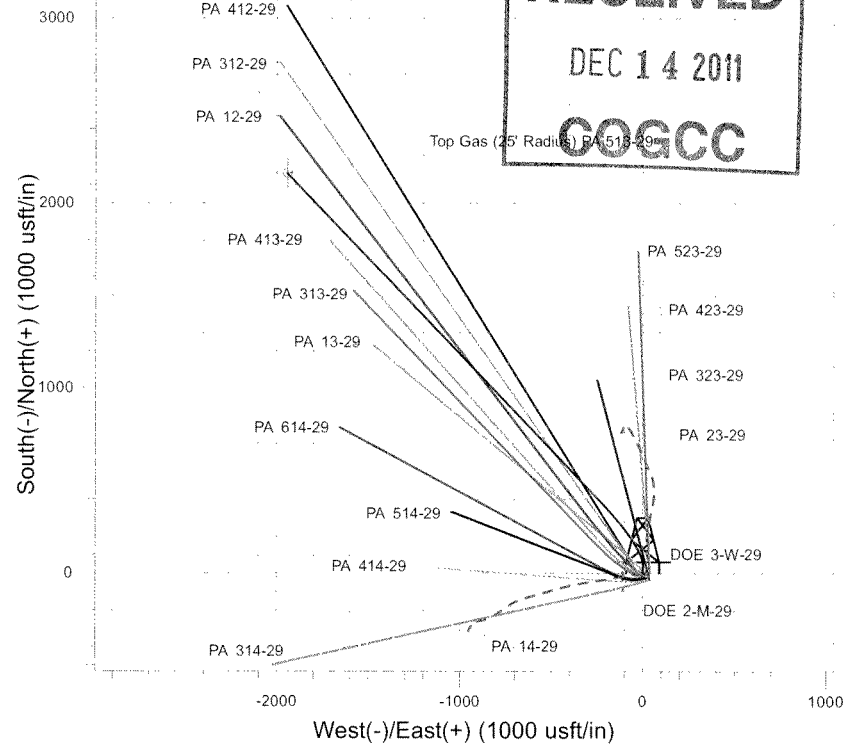
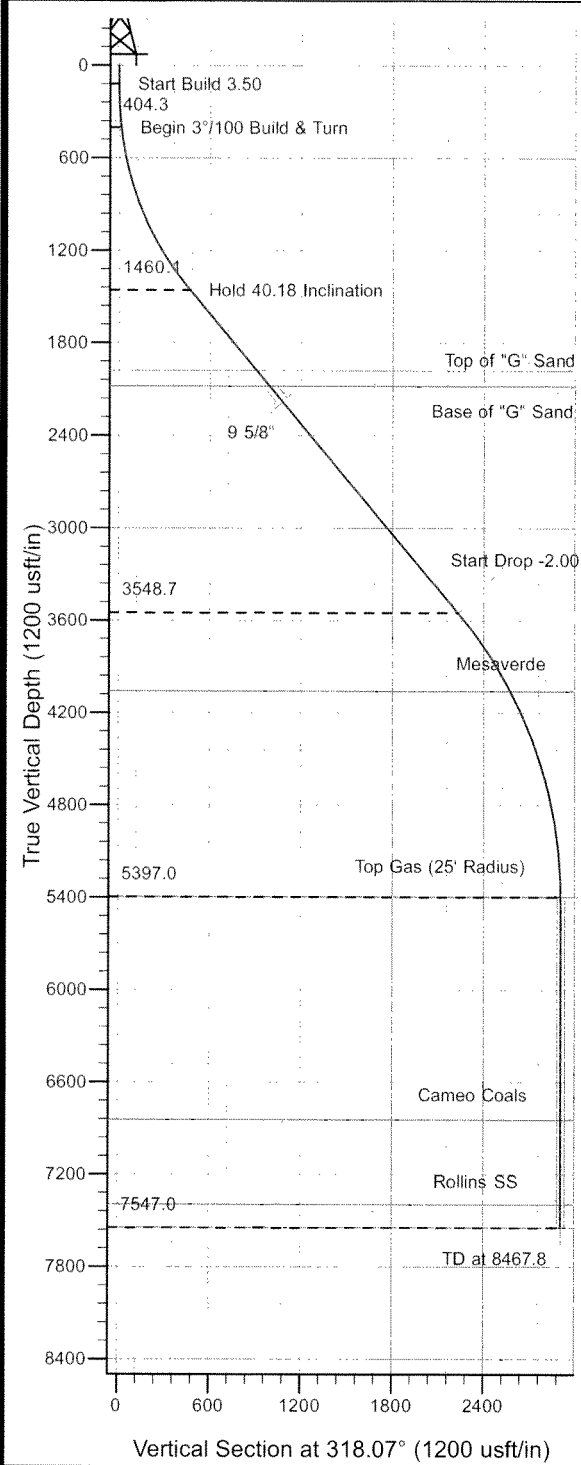
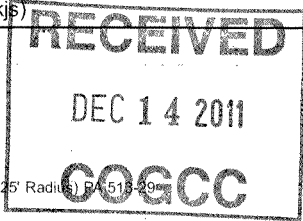
Database:	COMPASS-PICEANCE	Local Co-ordinate Reference:	Well PA 513-29 - Slot A8
Company:	PICEANCE VLY NAD 83	TVD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Project:	PA 29-06S-095W	MD Reference:	WELL @ 5702.0usft (Nabors 577 (26') kjs)
Site:	DOE 3-W-29 Pad	North Reference:	True
Well:	PA 513-29	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 01Sep11 kjs		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,258.3	1,982.0	Top of "G" Sand				
2,389.2	2,082.0	Base of "G" Sand				
4,929.1	4,062.0	Mesaverde				
6,317.8	5,397.0	Approx. Top Gas				
7,767.8	6,847.0	Cameo Coals				
8,317.8	7,397.0	Rollins SS				
8,467.8	7,547.0	TD				

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 3.50	
405.7	404.3	24.5	4.3	Begin 3°/100 Build & Turn	
1,575.3	1,460.1	408.0	-248.0	Hold 40.18 Inclination	
4,308.9	3,548.7	1,676.8	-1,473.1	Start Drop -2.00	
6,317.8	5,397.0	2,163.1	-1,942.6	Top Gas	
8,467.8	7,547.0	2,163.1	-1,942.6	TD at 8467.8	



Well Name: PA 513-29
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 1613235.20 2287980.30 39° 29' 23.853 N 108° 1' 23.544 W A8
WELL @ 5702.0usft (Nabors 577 (26') kjs)

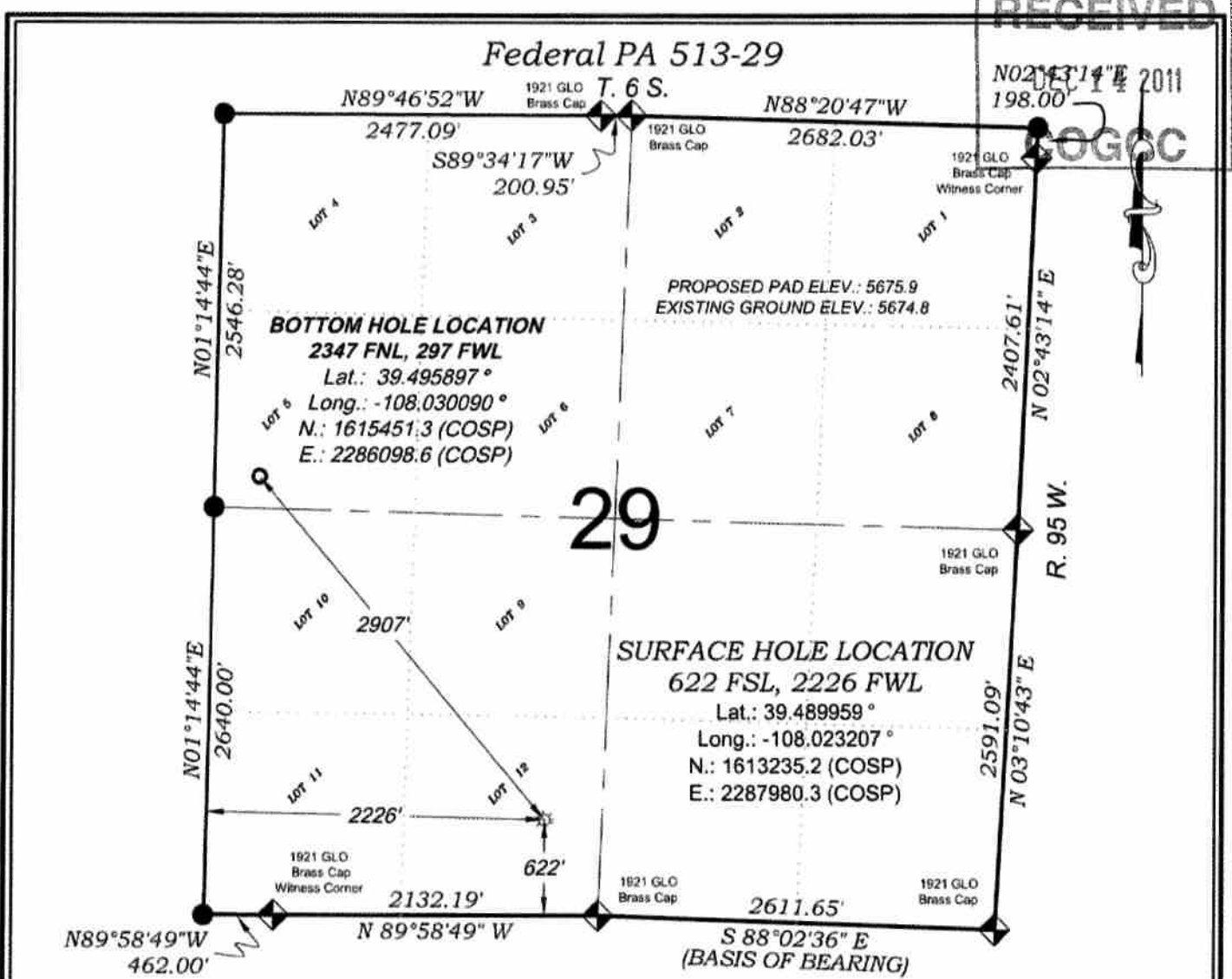


Project: PA 29-06S-095W
Site: DOE 3-W-29 Pad
Well: PA 513-29
Plan #3 01Sep11 kjs

M Azimuths to True North
Magnetic North: 10.67°
Magnetic Field
Strength: 52485.8snT
Dip Angle: 65.79°
Date: 2/3/2009
Model: IGRF2010

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSed	Departure	Annotation	
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.50	
404.3	405.7	10.00	10.00	24.5	4.3	15.3	24.9	Begin 3 3/100 Build & Turn	
1460.1	1575.3	40.18	316.01	408.0	-248.0	469.3	515.1	Hold 40.18 Inclination	
3548.7	4308.9	40.18	316.01	1676.8	-1473.1	2231.8	2278.7	Start Drop -2.00	
5397.0	6317.8	0.00	0.00	2163.1	-1942.6	2907.3	2954.7	Top Gas	
7547.0	8467.8	0.00	0.00	2163.1	-1942.6	2907.3	2954.7	TD at 8467.8	

RECEIVED
DEC 14 2011
COGOC



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
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

BOOKCLIFF
Survey Services, Inc.

138 East Third Street
Suite 100
Durango, CO 81301
Tel: (970) 822-2720
Fax: (970) 822-2723

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

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