

Commonwealth of Virginia Department of Mines, Minerals, and Energy Division of Gas and Oil

P.O. Box 1416; Abingdon, VA 24212

Telephone: (276) 676-5423

Tracking Number:	104
Company:	Chesapeake Appalachia, LLC
File Number:	BU-3083
Operations Name:	825852 (PP-173) W/PL
Operation Type:	Gas/Pipeline
<b>Drilling Report Type:</b>	Original

## **DRILLING REPORT (DGO-GO-14)**

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1. Drilling Data							
Date drilling commenced: 7/13/2006			Drilling Contractor: Gasco Drilling				
Date drilling completed: 7/18/2006			Rig Type: ☑ Rotary ☐ Cable Tool				
Driller's Total Depth (feet):	5,376		3 71 -				
Log Total Depth (feet): 5,383			rmation At Total D	Pepth Devonian			
2. Final Location Plat (as req	uired by 4 VAC	25-150	-360.C.)				
Permitted State Plane X 958	3,694	Fir	nal Plat State Plan	e X: <u>958,693</u>			
Permitted State Plane Y: 402	2,916	Fir	nal Plat State Plan	e Y: <u>402,917</u>			
☐ Plat Previously Submitted	Plat Previously Submitted Or						
List of Attached Items:							
Descrip	tion			FileName			
825852 Fi			82	825852 final plat.pdf			
3. Geological Data							
Fresh Water At:							
Depth (in feet) Rate Unit of Measure							
80			2	INCH			
Salt Water At:							
5	(in fact)		D. (	Hait of Manager			
Depth	(in feet)		Rate	Unit of Measure			

Form DGO-GO-14-E Rev. 1/2007

#### Coal Seams

List of Attached Items:

Description	FileName		
825852 Coalbeds	Copy of CoalBeds 825852.xls		

#### Gas and Oil Shows

List of Attached Items:

Description	FileName

#### **4. Electric Logs** (As required by 4VAC25-150-280.A.)

List all logs run: GR, LDT, CNL, AIT, PE, Temp, & Audio

Did logs disclose vertical locations of a coal seam? ✓ Yes □ No

### **5. Survey Results** (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName		
825852 Survey Results	Copy of SurveyResults 825852.xls		

## 6. Casing and Tubing Program

List of Attached Items:

Description	FileName		
825852 Casing Program	Copy of CasingProgram 825852.xls		

### 7. Remarks

Use this space to note any conditions or occurrences, such as lost circulation, fishing jobs, junk left in hole, sidetracks, squeeze jobs, etc., not shown above. Include data and depth of condition/occurence.

## 8. Drillers Log

Compiled By: Aaron Casto

List of Attached Items:

Description	FileName
825852 Drillers Log	Copy of DrillersLog 825852.xls

Form DGO-GO-14-E

#### 9. Comments

Inspector's records show 2" of water @ 80. Also was the basket on the 9" set at 44' or 88'? The operator changed the basket location for the 9".

10.	Sig	natuı	re
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Permitee: Chesapeake Appalachia, LLC Date: 3/7/2007 (Company)

Signed By: Aaron Casto Title: Drilling Engineer (Signature)

## INTERNAL USE ONLY

Submit Date: 3/7/2007

Status: Inspr Approved Date: 3/8/2007

Final PDF Date: 3/22/2007

Form DGO-GO-14-E

#### WELL LOCATION PLAT

Company Tract No.	CHESAPEAKE APPA ZACK JUSTIC	E ESTATE	Well Name or Number Quadrangle			(PP-173) RLEY	
District _	KNO	X .		*****			
Well Coord	linates (Virginia State P	lane)			N: 402,917.03	E: 958;693.10	
Elevation:	1374.67	_ Method Used to	Determine Elevation: <u>Irig.</u>	Levels from			
County _	BUCHANAN	Scale:	1" = 400'	Date	8-31-06	- JANTHON	
De	notes the location of a vitude and longitude line	vell on United States being represente	es topographic maps, scale 1 to d by border lines as shown.  Storral, Engineer, & Licensed L	to 24,000,	4	DOUGLAS R. LIGHT No. 002285	The state of the s

## Coal Seams 825903

Well 8258	352 Coal	beds	MINING IN AREA			
NAME TOP		BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	73	75	2	,	X	NO
Unknown	150	151	1		Χ	NO
Unknown	371	372	1	2	Χ	NO
Unknown	401	402	1		X	NO
Unknown	470	471	1		X	NO
Unknown	570	571	1		Χ	NO
Unknown	781	782	1		Χ	NO
Unknown	1015	1017	2	]	Χ	NO
Unknown	1260	1262	2		Χ	NO

# Survey Results 825903

Well 825852 Survey Result	s
Depth of Survey	Direction/Distance/Degree From True Vertical
201	1/4 degree
418	1/4 degree
608	1/4 degree
829	1/4 degree
1208	1/4 degree

Well 825852 Casing Program							
Casing Casing		Hole	<b>Cement Used</b>	Cemented To Surface	Date	Packers Or Bridge Plugs	
Casing Type	Size	Interval	Size	In Cubic Ft.	Yes/No	Cemented	Kind/Size/Set
Surface	12 3/4"	35'KB	15"		n/a		
Surface	9 5/8"	314'KB	12 1/4"	148	Yes	07/14/06	Grout Basket @ 44'
Coal Protection	7"	1771'KB	8-7/8"	365	Yes	07/15/06	Grout Basket @ 88'
Production	4-1/2"	5350'KB	6-3/8"	388	No	07/18/06	

Well 825852 Driller's Log		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	843	843	
Penn	Salt Sand	Sandstone		843	1593	750	
Miss	Pennington	Siltstone & Shale		1593	1894	301	
Miss	Upper Maxon	Sandstone		1894	1968	74	
Miss	Pennington	Siltstone & Shale		1968	2061	93	
Miss	Middle Maxon	Sandstone		2061	2120	59	
Miss	Pennington	Siltstone & Shale		2120	2473	353	
Miss	Lower Maxon	Sandstone		2473	2530	57	
Miss	Pennington	Siltstone & Shale		2530	2670	140	
Miss	Bradley	Sandstone		2670	2714	44	
Miss	Pennington	Siltstone & Shale		2714	2765	51	
Miss	Little Lime	Limestone		2765	2805	40	
Miss	Big Lime	Limestone		2805	3332	527	
Miss	Pennington	Siltstone & Shale		3332	3379	47	
Miss	Weir	Sandstone		3379	3540	161	
Miss	Pocono	Shale		3540	3873	333	
Miss	Sunbury	Shale		3873	3888	15	
Miss	Berea	Sandstone		3888	3902	14	
Devonian	Devonian	Shale		3902	4300	398	
Devonian	Gordon	Sandstone		4300	4406	106	
Devonian	Devonian	Shale		4406	4880	474	
Devonian	Lower Huron	Shale		4880	5162	282	
Devonian	Java	Shale		5162	5383	221	