



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  
 Drilling Report Type: Original

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

#### 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  
 Log Total Depth (feet): 5,383 Formation At Total Depth Devonian

#### 2. Final Location Plat (as required by 4 VAC25-150-360.C.)

Permitted State Plane X 958,694 Final Plat State Plane X: 958,693  
 Permitted State Plane Y: 402,916 Final Plat State Plane Y: 402,917

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
825852 Final Plat	825852 final plat.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
80	2	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
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**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
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**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/occurrence.

**8. Drillers Log**

Compiled By: Aaron Casto

List of Attached Items:

Description	FileName
825852 Drillers Log	Copy of DrillersLog 825852.xls

**9. Comments**

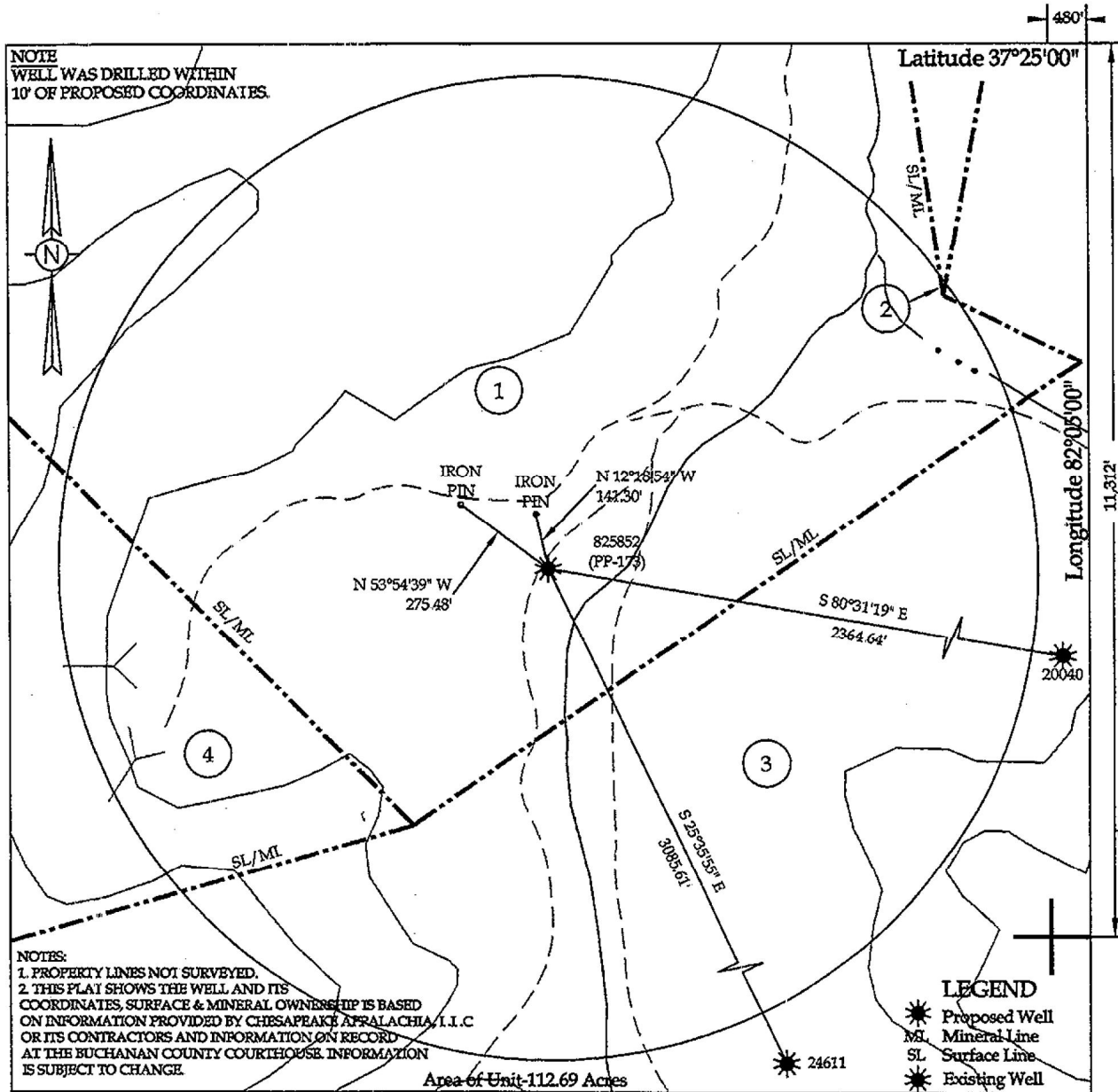
Inspector's records show 2" of water @ 80. Also was the basket on the 9" set at 44' or 88'?  
The operator changed the basket location for the 9".

**10. Signature**

Permitee: Chesapeake Appalachia, LLC Date: 3/7/2007 (Company)

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

INTERNAL USE ONLY	
Submit Date: <u>3/7/2007</u>	
Status: <u>Inspr Approved</u>	Date: <u>3/8/2007</u>
Final PDF Date: <u>3/22/2007</u>	



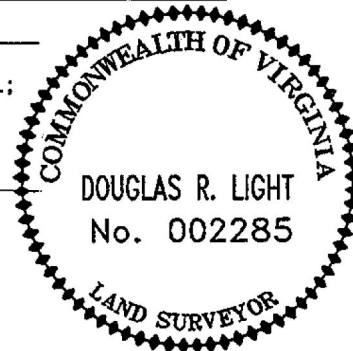
WELL LOCATION PLAT

Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 825852 (PP-173)  
 Tract No. ZACK JUSTICE ESTATE Quadrangle HURLEY  
 District KNOX  
 Well Coordinates (Virginia State Plane) N: 402,917.03 E: 958,693.10  
 Elevation: 1374.67 Method Used to Determine Elevation: Irig. Levels from GPS derived elevation.  
 County BUCHANAN Scale: 1" = 400' Date 8-31-06

This Plat is a new plat \_\_\_\_\_; an updated plat \_\_\_\_\_; or a final location plat X \_\_\_\_\_;

+ Denotes the location of a well on United States topographic maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

Douglas R. Light  
 Licensed Professional Engineer or Licensed Land Surveyor



Coal Seams 825903

Well 825852 Coalbeds				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	73	75	2		X	NO
Unknown	150	151	1		X	NO
Unknown	371	372	1		X	NO
Unknown	401	402	1		X	NO
Unknown	470	471	1		X	NO
Unknown	570	571	1		X	NO
Unknown	781	782	1		X	NO
Unknown	1015	1017	2		X	NO
Unknown	1260	1262	2		X	NO

Survey Results 825903

Well 825852 Survey Results	
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	Cement Used	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	

