



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: 127  
 Company: Chesapeake Appalachia, LLC  
 File Number: BU-3136  
 Operations Name: 825687 (PP100)  
 Operation Type: Gas  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/13/2006 Drilling Contractor: Gasco Inc. Rig #4  
 Date drilling completed: 8/17/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 5,541  
 Log Total Depth (feet): 5,539 Formation At Total Depth Devonian

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

Permitted State Plane X 984,790 Final Plat State Plane X: 984,790  
 Permitted State Plane Y: 415,642 Final Plat State Plane Y: 415,639

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
825687 Final Plat	825687 final plat.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure

Salt Water At:

Depth (in feet)	Rate	Unit of Measure

**Coal Seams**

List of Attached Items:

Description	FileName
825687 Coalbeds	Copy of CoalBeds 825687.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
825687 Survey Results	Copy of SurveyResults 825687.xls

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
825687 Casing Program	Copy of CasingProgram 825687.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: \_\_\_\_\_

List of Attached Items:

Description	FileName
825687 Driller's Log	Copy of DrillersLog 825687.xls

**9. Comments**

**10. Signature**

Permitee: Chesapeake Appalachia, LLC Date: 2/3/2007 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 2/3/2007

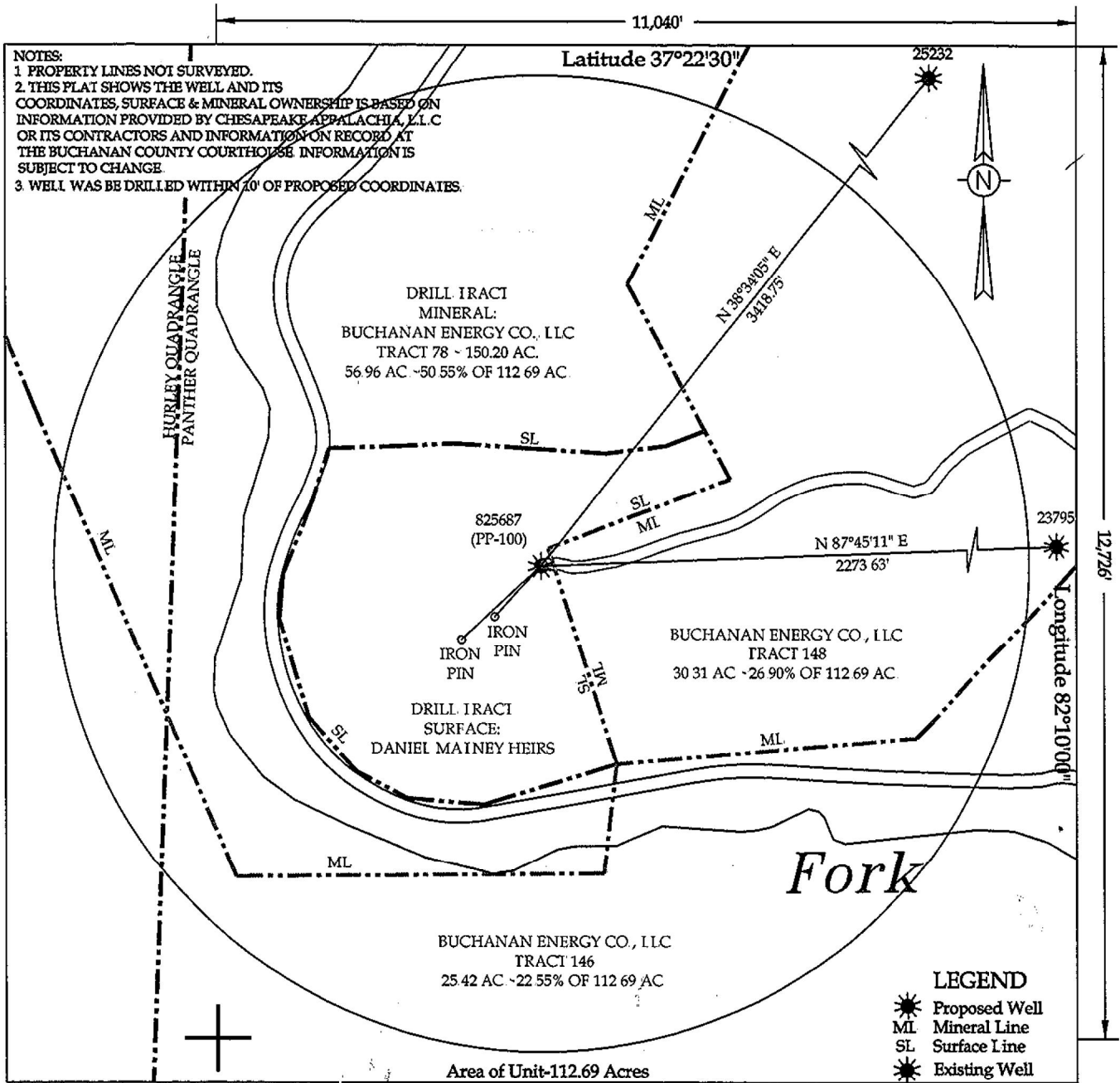
Status: Inspr Approved

Date: 2/5/2007

Final PDF Date: 2/7/2007

**NOTES:**

1. PROPERTY LINES NOT SURVEYED.
2. THIS PLAT SHOWS THE WELL AND ITS COORDINATES, SURFACE & MINERAL OWNERSHIP IS BASED ON INFORMATION PROVIDED BY CHESAPEAKE APPALACHIA, L.L.C OR ITS CONTRACTORS AND INFORMATION ON RECORD AT THE BUCHANAN COUNTY COURTHOUSE INFORMATION IS SUBJECT TO CHANGE.
3. WELL WAS BE DRILLED WITHIN 20' OF PROPOSED COORDINATES.



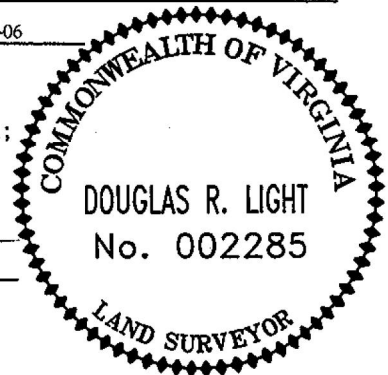
**WELL LOCATION PLAT**

Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 825687 (PP-100)  
 Tract No. BUCHANAN ENERGY CO., LLC ~ TRACT 78 Quadrangle PANTHER  
 District KNOX  
 Well Coordinates (Virginia State Plane) N: 415,638.83 E: 984,789.59  
 Elevation: 1507.09 Method Used to Determine Elevation: Irig. Levels from GPS derived elevation.  
 County BUCHANAN Scale: 1" = 400' Date 9-19-06

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



Well 825687				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	130	131	1		X	NO
Unknown	228	229	1		X	NO
Unknown	240	241	1		X	NO
Unknown	370	371	1		X	NO
Unknown	379	380	1		X	NO
Unknown	571	572	1		X	NO
Unknown	760	762	2		X	NO

Well 825687	
<b>Depth of Survey</b>	<b>Direction/Distance/Degree From True Vertical</b>
201	1/4 degree
420	1/4 degree
639	1/4 degree
860	1/2 degree
1011	1/4 degree
1207	1/2 degree
1397	1/2 degree
1601	1/2 degree
1810	1/4 degree
1990	1/2 degree

Well 825687 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	13-3/8"	26'KB	15"	n/a	No		
Surface	9-5/8"	420' KB	12-1/4"	177	Yes	08/14/06	Grout basket at 88'KB
Coal Protection	7"	1946'KB	8-7/8"	392	Yes	08/15/06	
Production	4-1/2"	5508' KB	6-3/8"	360	No	08/18/06	

