



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: 223  
 Company: Chesapeake Appalachia, LLC  
 File Number: BU-3258  
 Operations Name: 825945 (HY-63) W/PL  
 Operation Type: Gas/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 10/12/2006 Drilling Contractor: S.W. Jack Drilling Co.  
 Date drilling completed: 10/21/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 5,566  
 Log Total Depth (feet): 5,576 Formation At Total Depth Onandoga

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

Permitted State Plane X 916,496 Final Plat State Plane X: 916,496  
 Permitted State Plane Y: 379,071 Final Plat State Plane Y: 379,069

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
825945 Final Plat	Final Plat 825945.pdf

#### 3. Geological Data

*Fresh Water At:*

Depth (in feet)	Rate	Unit of Measure
50	Damp	

*Salt Water At:*

Depth (in feet)	Rate	Unit of Measure
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**Coal Seams**

List of Attached Items:

Description	FileName
825945 Coal Seams	CoalBeds 825945.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, Audio, & Temp.

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
825945 Survey Results	Survey Results 825945.xls

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
825945 Casing Program	Casing Program 825945.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.

Lost circulation at 187' while drilling. Grouted backside of 9 5/8" csg to surface with 40 sks of Class A cement.

**8. Drillers Log**

Compiled By: Aaron Casto

List of Attached Items:

Description	FileName
825945 Drillers Log	DrillersLog 825945.xls

**9. Comments**

**10. Signature**

Permitee: Chesapeake Appalachia, LLC Date: 3/17/2007 (Company)

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

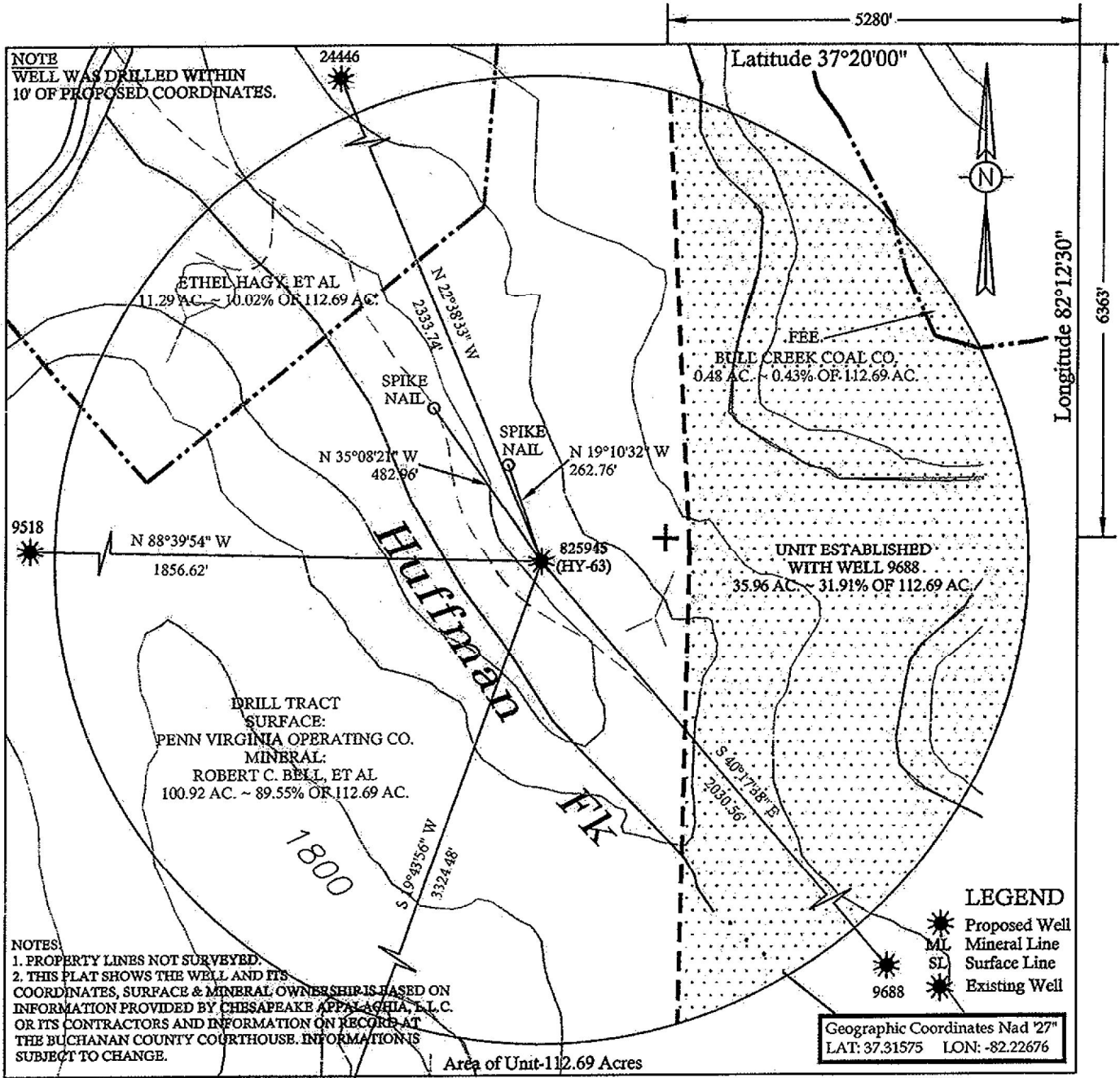
**INTERNAL USE ONLY**

Submit Date: 3/17/2007

Status: Inspr Approved

Date: 3/19/2007

Final PDF Date: 4/3/2007



NOTE  
WELL WAS DRILLED WITHIN  
10' OF PROPOSED COORDINATES.

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 RECORDS AT  
THE BUCHANAN COUNTY COURTHOUSE. INFORMATION IS  
SUBJECT TO CHANGE.

LEGEND  
 Proposed Well  
 Mineral Line  
 Surface Line  
 Existing Well

Geographic Coordinates Nad '27"  
LAT: 37.31575 LON: -82.22676

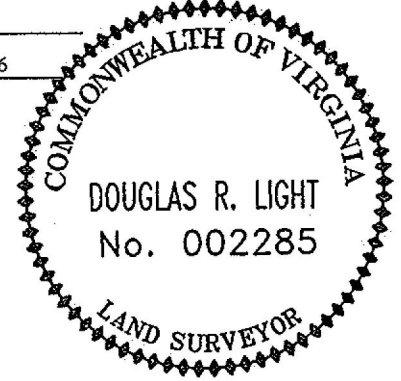
WELL LOCATION PLAT

Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 825945 (HY-63)  
 Tract No. ROBERT C. BELL, ET AL Quadrangle HARMAN  
 District ROCKCLICK  
 Well Coordinates (Virginia State Plane) N: 379,069.16 E: 916,496.22  
 Elevation: 1469.44 Method Used to Determine Elevation: Trig. Levels from GPS derived elevation.  
 County BUCHANAN Scale: 1"=400' Date 11-08-06

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 825945 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	119	121	2		X	NO
Unknown	381	384	3		X	NO

Well 825945 SURVEY RESULTS	
Depth of Survey	Direction/Distance/Degree From True Vertical
202	1/4 degree
468	1/4 degree
616	1/4 degree
816	1/2 degree
1128	1/2 degree
1346	1/2 degree
1534	1/2 degree
1734	1/2 degree

Well 825945 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
Conductor	13 3/8"	54' KB	17 1/2"	Driven	No		
Surface	9-5/8"	428'KB	12-1/4"	177	Yes	10/14/06	Grout basket at 71' KB
Coal Protection	7"	1775'KB	8-7/8"	361	Yes	10/17/06	Grout basket at 98'KB
Production	4-1/2"	5519'KB	6-1/2"	432	No	10/21/06	

Well 825945 DRILLER'S LOG		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	850	850	
Penn	Salt Sand	Sandstone		850	1742	892	
Miss	Pennington	Siltstone & Shale		1742	1889	147	
Miss	Revencliff	Sandstone		1889	1923	34	
Miss	Pennington	Siltstone & Shale		1923	2092	169	
Miss	Upper Maxon	Sandstone		2092	2267	175	
Miss	Pennington	Siltstone & Shale		2267	2341	74	
Miss	Lower Maxon	Sandstone		2341	2426	85	
Miss	Pennington	Siltstone & Shale		2426	2728	302	
Miss	Bradley	Sandstone		2728	2774	46	
Miss	Pennington	Siltstone & Shale		2774	2780	6	
Miss	Little Lime	Limestone		2780	2824	44	
Miss	Big Lime	Limestone		2824	3228	404	
Miss	Pennington	Siltstone & Shale		3228	3303	75	
Miss	Weir	Sandstone		3303	3483	180	
Miss	Pocono	Shale		3483	3920	437	
Miss	Sunbury	Shale		3920	3940	20	
Miss	Berea	Sandstone		3940	4003	63	
Devonian	Devonian	Shale		4003	4884	881	
Devonian	Lower Huron	Shale		4884	5100	216	
Devonian	Java	Shale		5100	5212	112	
Devonian	Angola	Shale		5212	5294	82	
Devonian	Rhinestreet	Shale		5294	5462	168	
Devonian	Marcellus	Shale		5462	5474	12	
Devonian	Onondoga	Limestone		5474	5576	102	