



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: 870  
 Company: Chesapeake Appalachia, LLC  
 File Number: BU-3325  
 Operations Name: 826091 (HY-138) W/PL  
 Operation Type: Gas/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 6/23/2007 Drilling Contractor: Yost Drilling  
 Date drilling completed: 7/5/2007 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 5,930  
 Log Total Depth (feet): 5,930 Formation At Total Depth Onandoga

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

Permitted State Plane X 932,926 Final Plat State Plane X: 932,933  
 Permitted State Plane Y: 387,048 Final Plat State Plane Y: 387,042

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat Well #826091	Final Plat 826091.pdf

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
354	Damp	

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
2,274	Damp	

**Coal Seams**

List of Attached Items:

Description	FileName
Coal Seams Well #826091	CoalBeds 826091.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,CNL,LDT,SIB,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
Survey Results Well #826091	Survey Results 826091.xls

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing Program Well # 826091	Casing Program 826091.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.

9 5/8" Job: Open Mine @ 505'-508', Grout Basket @ 273'KB, grouted back to surface w/ 75 sks Class A cement

**8. Drillers Log**

Compiled By: Chad L Satterfield

List of Attached Items:

Description	FileName
Drillers Log Well # 826091	DrillersLog 826091.xls

**9. Comments**

**10. Signature**

Permitee: Chesapeake Appalachia, LLC Date: 11/27/2007 (Company)

Signed By: Chad L Satterfield Title: Drilling Engineer (Signature)

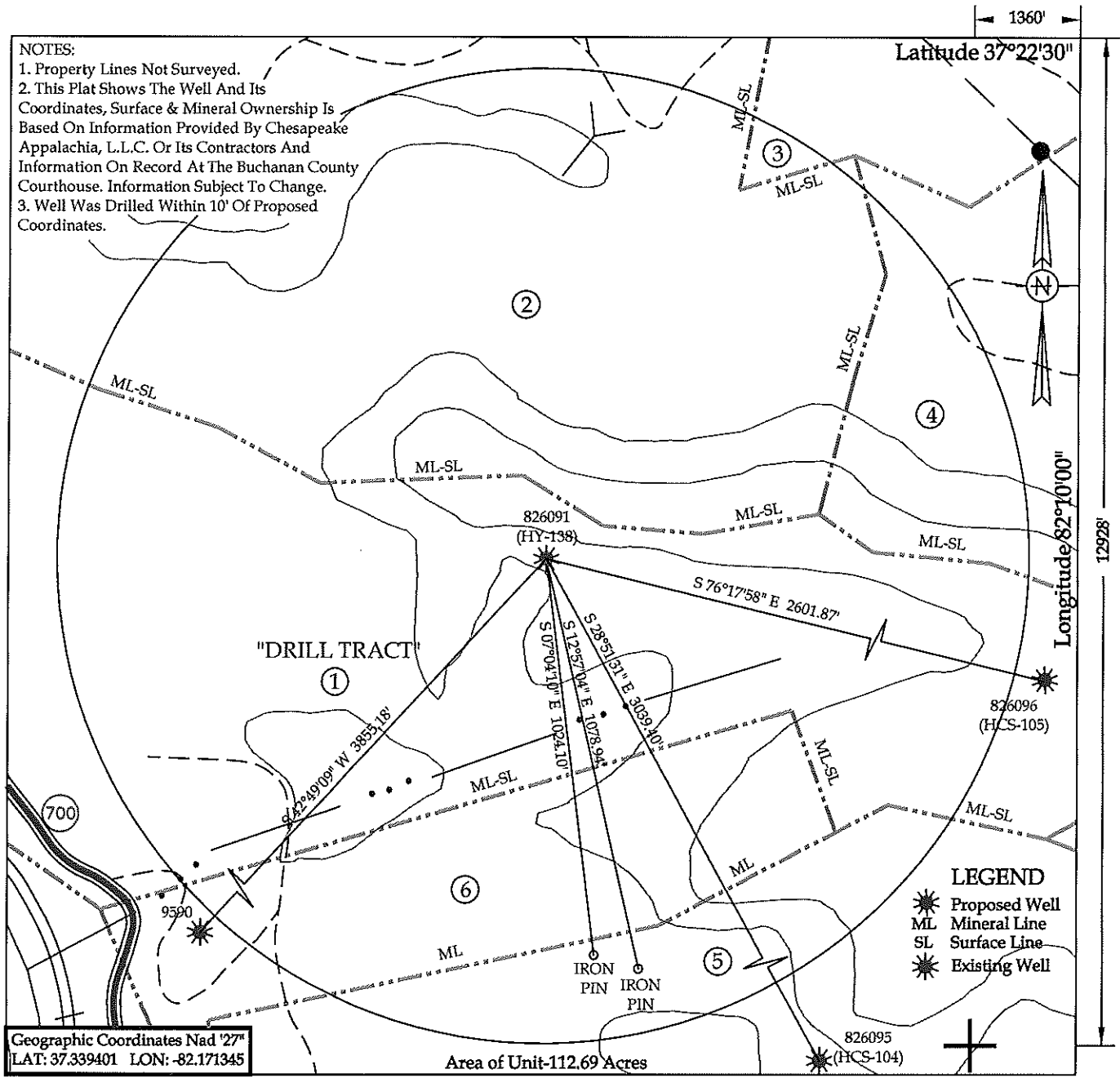
**INTERNAL USE ONLY**

Submit Date: 11/27/2007

Status: Inspr Approved

Date: 12/3/2007

Final PDF Date: 12/3/2007



Geographic Coordinates Nad '27"  
 LAT: 37.339401 LON: -82.171345

Area of Unit-112.69 Acres

**WELL LOCATION PLAT**

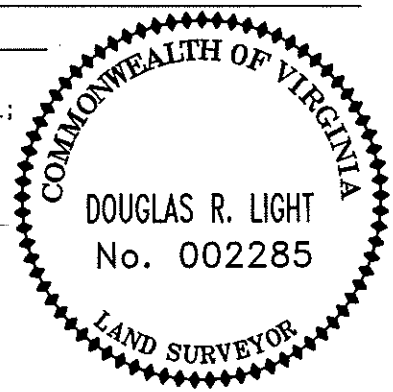
Company CHESAPEAKE APPALACHIA, LLC Well Name or Number 826091 (HY-138)  
 Tract No. BELVA McCLANAHAN, ET AL Quadrangle HARMAN  
 District ROCKLICK  
 Well Coordinates (Virginia State Plane) N: 387,041.63 E: 932,933.26  
 Elevation: 1712.17 Method Used to Determine Elevation: Trig. Levels from GPS derived elevation.

County BUCHANAN Scale: 1" = 400' Date 7-20-07

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

+ 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



DGO-7 Supplement  
WELL UNIT PROPERTY OWNER INDEX  
826091 (HY-138)

(1)

Drill Tract  
Surface, Coal & Mineral  
Belva McClanahan Heirs (Fee)  
43.80 Ac. ~ 38.87 % of 112.69 Ac.

(2)

Landon McClanahan Trust (Fee)  
39.83 Ac. ~ 35.34 % of 112.69 Ac.

(3)

Green Charles Estate  
0.5 Ac. ~ 0.44% of 112.69 Ac.

(4)

Landon McClanahan Trust  
6.91 Ac. ~ 6.13 % of 112.69 Ac.

(5)

James E. Buskirk (2/3 Int.)  
Eagle Coal Corp. (1/3 Int.)  
7.94 Ac. ~ 7.05 % of 112.69 Ac.

(6)

James E. Buskirk  
13.71 Ac. ~ 12.17 % of 112.69 Ac.

Well 826091 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	179	183	4		X	NO
Unknown	206	209	3		X	NO
Unknown	210	211	1		X	NO
Unknown	229	232	3		X	NO
Unknown	352	354	2		X	NO
Unknown	396	399	3		X	NO
Unknown	505	508	3		X	YES
Unknown	759	764	5		X	NO
Unknown	1068	1072	4		X	NO
Unknown	1098	1100	2		X	NO

Well 826091 SURVEY RESULTS	
Depth of Survey	Direction/Distance/Degree From True Vertical
190	3/4 degree
401	3/4 degree
625	3/4 degree
805	3/4 degree
1026	3/4 degree
1230	3/4 degree
1402	3/4 degree

Well 826091 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"	40' KB	17 1/2"	Driven	No		
Surface	9-5/8"	578'KB	12-1/4"	177	Yes	6/24/2007	Grout basket at 273'
Intermediate	7"	2133'KB	8-3/4"	437.7	Yes	6/29/2007	Grout basket at 101'
Production	4-1/2"	5905'KB	6-1/4"	352.8	No	7/5/2007	



Well 826091 DRILLER'S LOG		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	1230	1230	
Penn	Salt Sand	Sandstone		1230	2027	797	
Miss	Pennington	Siltstone & Shale		2027	2394	367	
Miss	Upper Maxon	Sandstone		2394	2427	33	
Miss	Pennington	Siltstone & Shale		2427	2526	99	
Miss	Middle Maxon	Sandstone		2526	2612	86	
Miss	Pennington	Siltstone & Shale		2612	2918	306	
Miss	Lower Maxon	Sandstone		2918	2946	28	
Miss	Pennington	Siltstone & Shale		2946	3102	156	
Miss	Bradley	Sandstone		3102	3167	65	
Miss	Pennington	Siltstone & Shale		3167	3184	17	
Miss	Little Lime	Limestone		3184	3215	31	
Miss	Big Lime	Limestone		3215	3630	415	
Miss	Pocono	Shale		3630	3806	176	
Miss	Weir	Sandstone		3806	3862	56	
Miss	Pocono	Shale		3862	4328	466	
Miss	Sunbury	Shale		4328	4346	18	
Miss	Berea	Sandstone		4346	4366	20	
Devonian	Devonian	Shale		4366	5178	812	
Devonian	Lower Huron	Shale		5178	5402	224	
Devonian	Java	Shale		5402	5504	102	
Devonian	Angola	Shale		5504	5636	132	
Devonian	Rhinestreet	Shale		5636	5822	186	
Devonian	Marcellus	Shale		5822	5830	8	
Devonian	Onondoga	Limestone		5830	5930	100	