



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: 823  
 Company: Chesapeake Appalachia, LLC  
 File Number: BU-3394  
 Operations Name: 826290 (HY-147) W/PL  
 Operation Type: Gas/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 6/11/2007 Drilling Contractor: S.W. Jack Drilling  
 Date drilling completed: 6/25/2007 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 6,083  
 Log Total Depth (feet): 6,094 Formation At Total Depth Onandoga

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

Permitted State Plane X 923,347 Final Plat State Plane X: 923,346  
 Permitted State Plane Y: 320,437 Final Plat State Plane Y: 320,436

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat Well #826290	Final Plat 826290.pdf

#### 3. Geological Data

*Fresh Water At:*

Depth (in feet)	Rate	Unit of Measure
115	5	INCH
36	Damp	
395	2	INCH
56	2	INCH

*Salt Water At:*

Depth (in feet)	Rate	Unit of Measure
740	Damp	

**Coal Seams**

List of Attached Items:

Description	FileName
Coal Seams Well #826290	CoalBeds 826290xls.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 #826290	CoalBeds 826290xls.xls

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Casing Program Well # 826290	Casing Program 826209.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: Job did not circulate, grouted back to surface w/ 20 sks Class A cement ; 7" Job: Cement circulated but fell back, grouted to surface w/10sks Class A cement

**8. Drillers Log**

Compiled By: Chad L Satterfield

List of Attached Items:

Description	FileName
Drillers Log Well # 826290	DrillersLog 826290.xls

**9. Comments**

**10. Signature**

Permitee: Chesapeake Appalachia, LLC Date: 11/14/2007 (Company)

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

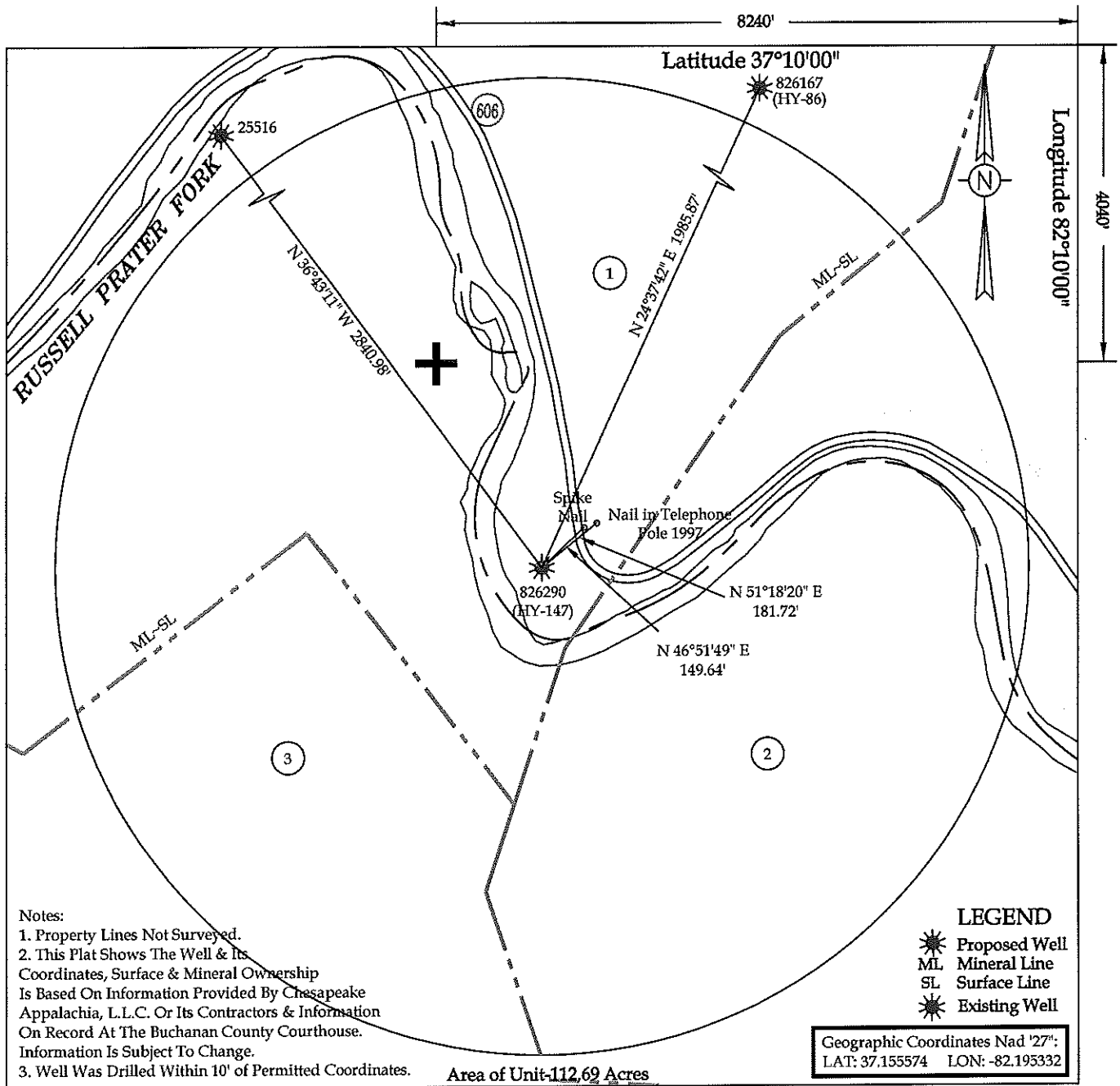
**INTERNAL USE ONLY**

Submit Date: 11/14/2007

Status: Inspr Approved

Date: 11/15/2007

Final PDF Date: 11/15/2007

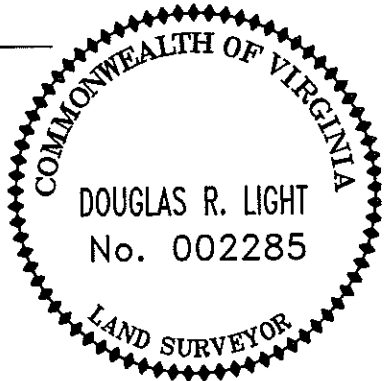


**WELL LOCATION PLAT**

Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 826290 (HY-147)  
 Tract No. PINE MOUNTAIN OIL & GAS, INC. (1200 Ac. Tract) Quadrangle PRATER  
 District PRATER  
 Well Coordinates (Virginia State Plane) N: 320,435.77 E: 923,345.96  
 Elevation: 1362.29 Method Used to Determine Elevation: Trig. Levels from GPS derived elevation.  
 County BUCHANAN Scale: 1" = 400' Date 9-05-07

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* 9-5-07  
 Licensed Professional Engineer or Licensed Land Surveyor



DGO-7 Supplement  
WELL UNIT PROPERTY OWNER INDEX  
**Chesapeake Appalachia, L.L.C.**  
826290 (HY-147) with pipeline

(1)  
Drill Tract  
Surface:  
Heartwood Forestland Fund IV, LP  
Oil & Gas:  
Pine Mountain Oil & Gas  
(1200 Acre Tract)  
51.03 Ac. ~ 45.28% of 112.69 Ac.

(2)  
Pine Mountain Oil & Gas  
(170.58 Acre Tract)  
41.15 Ac. ~ 36.52% of 112.69 Ac.

(3)  
Pine Mountain Oil & Gas  
(147.95 Acre Tract)  
20.51 Ac. ~ 18.20% of 112.69 Ac.

Well 826290 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	360	362	2		X	NO
Unknown	886	887	1		X	NO
Unknown	922	924	2		X	NO
Unknown	1122	1124	2		X	NO

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NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	360	362	2		X	NO
Unknown	886	887	1		X	NO
Unknown	922	924	2		X	NO
Unknown	1122	1124	2		X	NO

Well 826290 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
Driven	13 3/8"	36' KB	17 1/2"	Driven	No		
Surface	9-5/8"	275' KB	12-1/4"	200.6	Yes	6/13/2007	Grout basket at 98'
Coal Protection	7"	1693'KB	8-3/4"	305.65	Yes	6/20/2007	Grout basket at 318'
Production	4-1/2"	6072'KB	6-1/4"	352.8	No	6/25/2007	



Well 826290 DRILLER'S LOG		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	580	580	
Penn	Salt Sand	Sandstone		580	1416	836	
Miss	Pennington	Siltstone & Shale		1416	1510	94	
Miss	Ravenclyff	Sandstone		1510	1578	68	
Miss	Pennington	Siltstone & Shale		1578	1818	240	
Miss	Upper Maxon	Sandstone		1818	2022	204	
Miss	Pennington	Siltstone & Shale		2022	2188	166	
Miss	Middle Maxon	Sandstone		2188	2226	38	
Miss	Pennington	Siltstone & Shale		2226	2533	307	
Miss	Lower Maxon	Sandstone		2533	2794	261	
Miss	Pennington	Siltstone & Shale		2794	3058	264	
Miss	Little Lime	Limestone		3058	3100	42	
Miss	Big Lime	Limestone		3100	3776	676	
Miss	Pocono	Shale		3776	3980	204	
Miss	Weir	Sandstone		3980	4068	88	
Miss	Pocono	Shale		4068	4495	427	
Miss	Sunbury	Shale		4495	4520	25	
Miss	Berea	Sandstone		4520	4558	38	
Devonian	Devonian	Shale		4558	5342	784	
Devonian	Lower Huron	Shale		5342	5562	220	
Devonian	Java	Shale		5562	5705	143	
Devonian	Angola	Shale		5705	5809	104	
Devonian	Rhinestreet	Shale		5809	5989	180	
Devonian	Marcellus	Shale		5989	5999	10	
Devonian	Onondoga	Limestone		5999	6094	95	