



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: 217
 Company: Chesapeake Appalachia, LLC
 File Number: BU-3202
 Operations Name: 824610 (PP-144) 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: Gasco Drilling Co.
 Date drilling completed: 10/18/2006 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 6,162
 Log Total Depth (feet): 6,163 Formation At Total Depth Onandoga

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

Permitted State Plane X 961,839 Final Plat State Plane X: 961,839
 Permitted State Plane Y: 398,199 Final Plat State Plane Y: 398,200

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
824610 Final Plat	_824610.pdf

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
120	1	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
1,850	Damp	

Coal Seams

List of Attached Items:

Description	FileName
824610 Coal Seams	CoalBeds 824610.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, AIT, CNL, 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
824610 Deviation Survey	Survey Results 824610.xls

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
824610 Casing Program	Casing Program 824610.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.

The 9 5/8" cement job did not circulate, Gouted the back side to surface with 40 sks of class A cement.

8. Drillers Log

Compiled By: Aaron Casto

List of Attached Items:

Description	FileName
824610 Drillers Log	DrillersLog 824610.xls

9. Comments

10. Signature

Permitee: Chesapeake Appalachia, LLC Date: 3/8/2007 (Company)

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

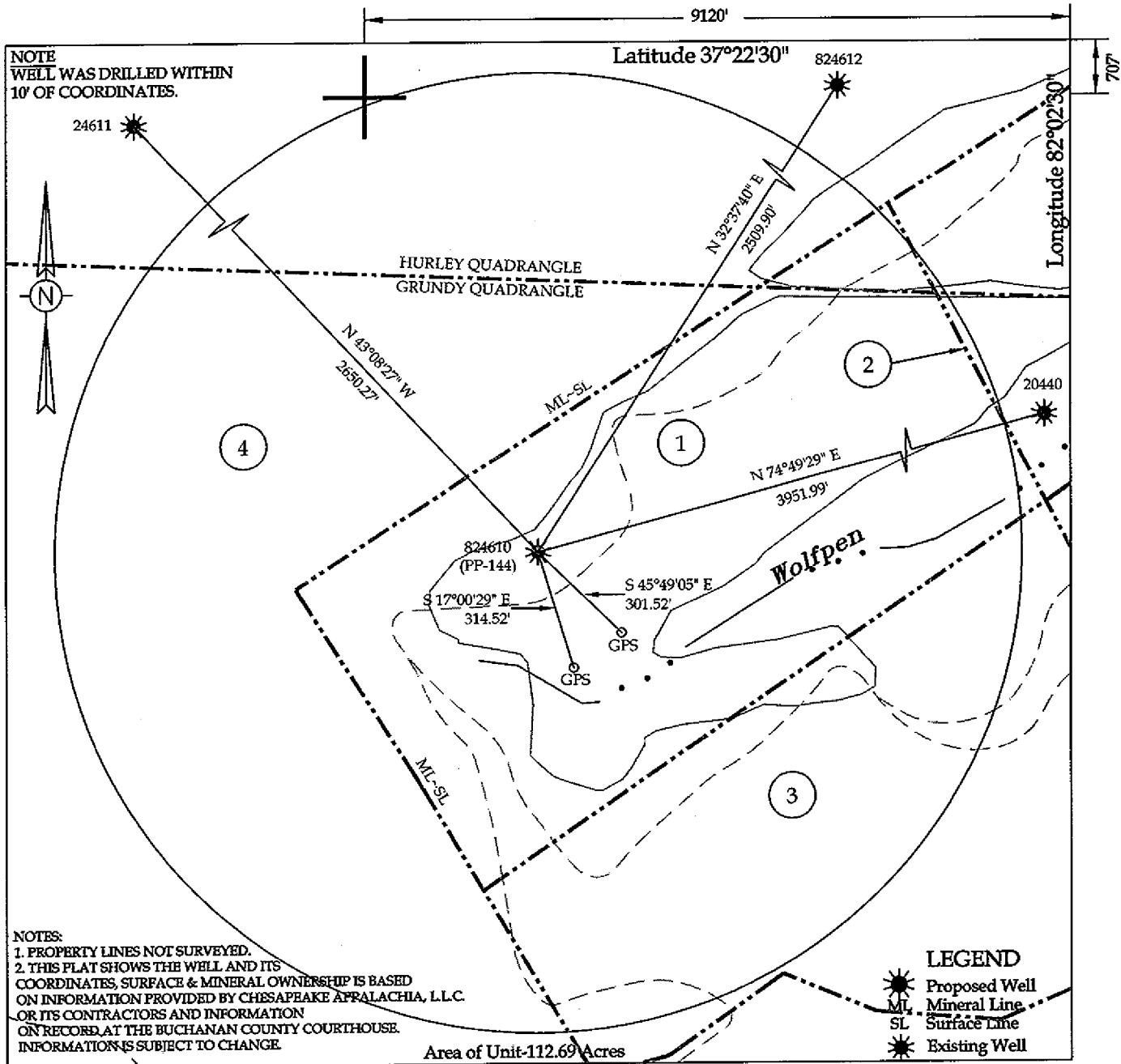
INTERNAL USE ONLY

Submit Date: 3/8/2007

Status: Inspr Approved

Date: 3/9/2007

Final PDF Date: 4/3/2007



WELL LOCATION PLAT

Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 824610 (PP-144)

Tract No. GERALD DAVIS & BUCHANAN & WHITE HEIRS Quadrangle GRUNDY

District KNOX

Well Coordinates (Virginia State Plane) N: 398,200.47 E: 961,838.52

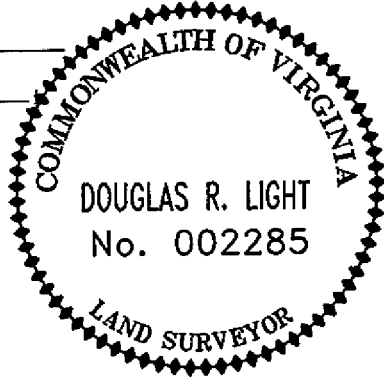
Elevation: 1780.25 Method Used to Determine Elevation: Trig. Levels from GPS derived elevation.

County BUCHANAN Scale: 1" = 400' Date 12-22-06

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



DGO-7 Supplement
WELL UNIT PROPERTY OWNER INDEX
CNR-824610 (PP-144)

(1)

Drill Tract

Surface:

Gerald Davis

Mineral:

Gerald Davis (2/3 Interest)

Buchanan & White Heirs (1/3 Interest)

36.77 Ac. ~ 32.63% of 112.69 Ac.

(2)

Heirs of W.A. Lester, et al (2/3 Interest)

Buchanan & White Heirs (1/3 Interest)

0.22 Ac. ~ 0.20% of 112.69 Ac.

(3)

Gerald Davis (Fee)

18.65 Ac. ~ 16.55% of 112.69 Ac.

(4)

Richardson & Charles Estate

57.05 Ac. ~ 50.63% of 112.69 Ac.

Well 824610 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	35	36	1		X	NO
Unknown	75	76	1		X	NO
Unknown	110	111	1		X	NO
Unknown	129	130	1		X	NO
Unknown	325	326	1		X	NO
Unknown	440	441	1		X	NO

Well 824610 SURVEY RESULTS	
Depth of Survey	Direction/Distance/Degree From True Vertical
199	1/4 degree
421	1/4 degree
797	1/4 degree
1018	1/4 degree
1207	1/2 degree
1428	1/2 degree
1649	1/2 degree
1839	1/2 degree

Well 824610 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	12 3/4"	27'KB	15"	Driven	No		
Surface	9-5/8"	581'KB	12-1/4"	318	Yes	10/13/06	Grout basket at 88'
Coal Protection	7"	2038'KB	8-7/8"	424	Yes	10/15/06	Grout basket at 88'
Production	4-1/2"	6102'KB	6-3/8"	422	No	10/19/06	

Well 824610 DRILLER'S LOG							
Geologic Age	Formation	General Lithology	Color	Depth Top	Depth Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	1250	1250	
Penn	Salt Sand	Sandstone		1250	2008	758	
Miss	Pennington	Siltstone & Shale		2008	2285	277	
Miss	Upper Maxon	Sandstone		2285	2350	65	
Miss	Pennington	Siltstone & Shale		2350	2463	113	
Miss	Lower Maxon	Sandstone		2463	2592	129	
Miss	Pennington	Siltstone & Shale		2592	3098	506	
Miss	Bradley	Sandstone		3098	3170	72	
Miss	Pennington	Siltstone & Shale		3170	3188	18	
Miss	Little Lime	Limestone		3188	3226	38	
Miss	Big Lime	Limestone		3226	3727	501	
Miss	Pennington	Siltstone & Shale		3727	3808	81	
Miss	Weir	Sandstone		3808	3985	177	
Miss	Pocono	Shale		3985	4312	327	
Miss	Sunbury	Shale		4312	4327	15	
Miss	Berea	Sandstone		4327	4347	20	
Devonian	Devonian	Shale		4347	4408	61	
Devonian	Gordon	Sandstone		4408	4466	58	
Devonian	Devonian	Shale		4466	5330	864	
Devonian	Lower Huron	Shale		5330	5630	300	
Devonian	Java	Shale		5630	5745	115	
Devonian	Angola	Shale		5745	5916	171	
Devonian	Rhinestreet	Shale		5916	6040	124	
Devonian	Marcellus	Shale		6040	6053	13	
Devonian	Onondoga	Limestone		6053	6163	110	