



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: 355
 Company: Chesapeake Appalachia, LLC
 File Number: BU-3273
 Operations Name: 825946 (HY-112) W/PL
 Operation Type: Gas/Pipeline
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 10/22/2006 Drilling Contractor: S.W. Jack Drilling Co.
 Date drilling completed: 10/29/2006 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 5,745
 Log Total Depth (feet): 5,746 Formation At Total Depth Onandoga

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

Permitted State Plane X 935,952 Final Plat State Plane X: 935,953
 Permitted State Plane Y: 401,623 Final Plat State Plane Y: 401,622

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
825946 Final Plat	Final Plat 825946.tif

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
65	Damp	

Salt Water At:

Depth (in feet)	Rate	Unit of Measure

Coal Seams

List of Attached Items:

Description	FileName
825946 Coal Seams	CoalBeds 825946.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, 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
825946 Survey Results	Survey Results 825946.xls

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
825946 Casing Program	Casing Program 825946.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: Aaron Casto

List of Attached Items:

Description	FileName
825946 Drillers Log	DrillersLog 825946.xls

9. Comments

10. Signature

Permitee: Chesapeake Appalachia, LLC Date: 5/3/2007 (Company)

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

INTERNAL USE ONLY

Submit Date: 5/3/2007

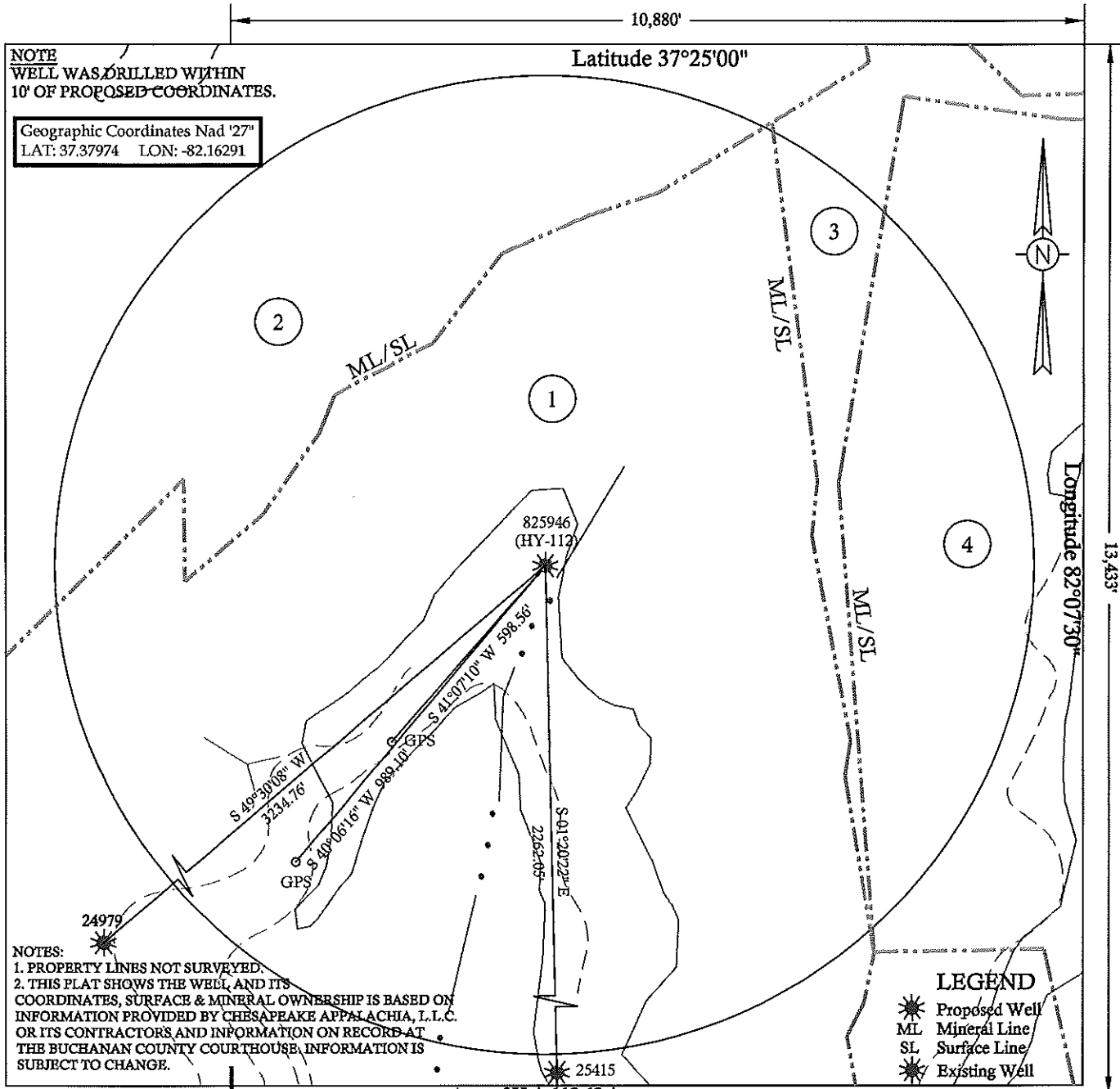
Status: Inspr Approved

Date: 5/4/2007

Final PDF Date: 7/9/2007

NOTE
WELL WAS DRILLED WITHIN
10' OF PROPOSED COORDINATES.

Geographic Coordinates Nad '27"
LAT: 37.37974 LON: -82.16291



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.

LEGEND
 Proposed Well
 ML Mineral Line
 SL Surface Line
 Existing Well

Area of Unit-112.69 Acres
WELL LOCATION PLAT

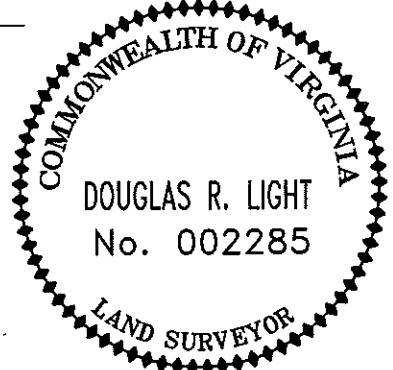
Company CHESAPEAKE APPALACHIA, L.L.C. Well Name or Number 825946 (HY-112)
 Tract No. MAE CHARLES MITCHELL ESTATE ~ TRACT A Quadrange JAMBOREE
 District ROCKLICK
 Well Coordinates (Virginia State Plane) N: 401,621.71 E: 935,953.38
 Elevation: 1589.31 Method Used to Determine Elevation: Trig. Levels from 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 825946 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
Unknown	110	113	3		X	NO

Well 825946 SURVEY RESULTS	
Depth of Survey	Direction/Distance/Degree From True Vertical
135	1/4 degree
416	1/4 degree
662	1/4 degree
880	1/4 degree
1161	1/4 degree
1380	1/2 degree
1590	1/2 degree
1700	1/2 degree
1980	1/2 degree
2171	1/2 degree

Well 825946 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"	54'KB	17 1/2"	Driven	No		
Surface	9-5/8"	494'KB	12-1/4"	236	Yes	10/24/2006	Grout basket at 88'KB
Coal Protection	7"	2137'KB	8-7/8"	423	Yes	10/26/2006	Grout basket at 88'KB
Production	4-1/2"	5707'KB	6-1/2"	426	No	10/30/2006	

Well 825946 DRILLER'S LOG		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	1204	1204	
Penn	Salt Sand	Sandstone		1204	2072	868	
Miss	Pennington	Siltstone & Shale		2072	2386	314	
Miss	Upper Maxon	Sandstone		2386	2413	27	
Miss	Pennington	Siltstone & Shale		2413	2762	349	
Miss	Lower Maxon	Sandstone		2762	2828	66	
Miss	Pennington	Siltstone & Shale		2828	2920	92	
Miss	Bradley	Sandstone		2920	2979	59	
Miss	Pennington	Siltstone & Shale		2979	2992	13	
Miss	Little Lime	Limestone		2992	3031	39	
Miss	Big Lime	Limestone		3031	3398	367	
Miss	Pennington	Siltstone & Shale		3398	3506	108	
Miss	Weir	Sandstone		3506	3683	177	
Miss	Pocono	Shale		3683	4082	399	
Miss	Sunbury	Shale		4082	4101	19	
Miss	Berea	Sandstone		4101	4112	11	
Miss	Devonian	Shale		4112	4964	852	
Devonian	Lower Huron	Shale		4964	5221	257	
Devonian	Java	Shale		5221	5338	117	
Devonian	Rhinestreet	Shale		5338	5634	296	
Devonian	Marcellus	Shale		5634	5648	14	
Devonian	Onondoga	Limestone		5648	5746	98	