



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: 642
 Company: Chesapeake Appalachia, LLC
 File Number: BU-3285
 Operations Name: 825807 (PPN-50) W/PL
 Operation Type: Gas/Pipeline
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 12/4/2006 Drilling Contractor: S.W. Jack Drilling Company
 Date drilling completed: 12/16/2006 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 5,417
 Log Total Depth (feet): 5,470 Formation At Total Depth Onandoga

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

Permitted State Plane X 998,036 Final Plat State Plane X: 998,044
 Permitted State Plane Y: 445,402 Final Plat State Plane Y: 445,403

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat Well Location #825807	Final Plat 825807 DGO-7.tif
Final Plat Well Location #825807 #2	Final Plat 825807.tif

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
180	4	INCH
60	1.5	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
1,530	Damp	

Coal Seams

List of Attached Items:

Description	FileName
Coal Seams Well #825807	CoalBeds 825807.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,DIL,Temp,Audio,AIT,PE

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 Wel #825807	SurveyResults 825807.xls

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
Casing Program Well #825807	CasingProgram 825807.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" Cement Job: Job Did Not Circulate, Grouted back to surface w/ 95 sks Class A Cement

8. Drillers Log

Compiled By: Chad L Satterfield

List of Attached Items:

Description	FileName
Drillers Log Well #825807	DrillersLog 825807.xls

9. Comments

10. Signature

Permitee: Chesapeake Appalachia, LLC Date: 8/30/2007 (Company)

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

INTERNAL USE ONLY

Submit Date: 8/30/2007

Status: Inspr Approved

Date: 9/10/2007

Final PDF Date: 9/10/2007

DGO-7 Supplement
WELL UNIT PROPERTY OWNER INDEX
825807 (PPN-50)

(1)

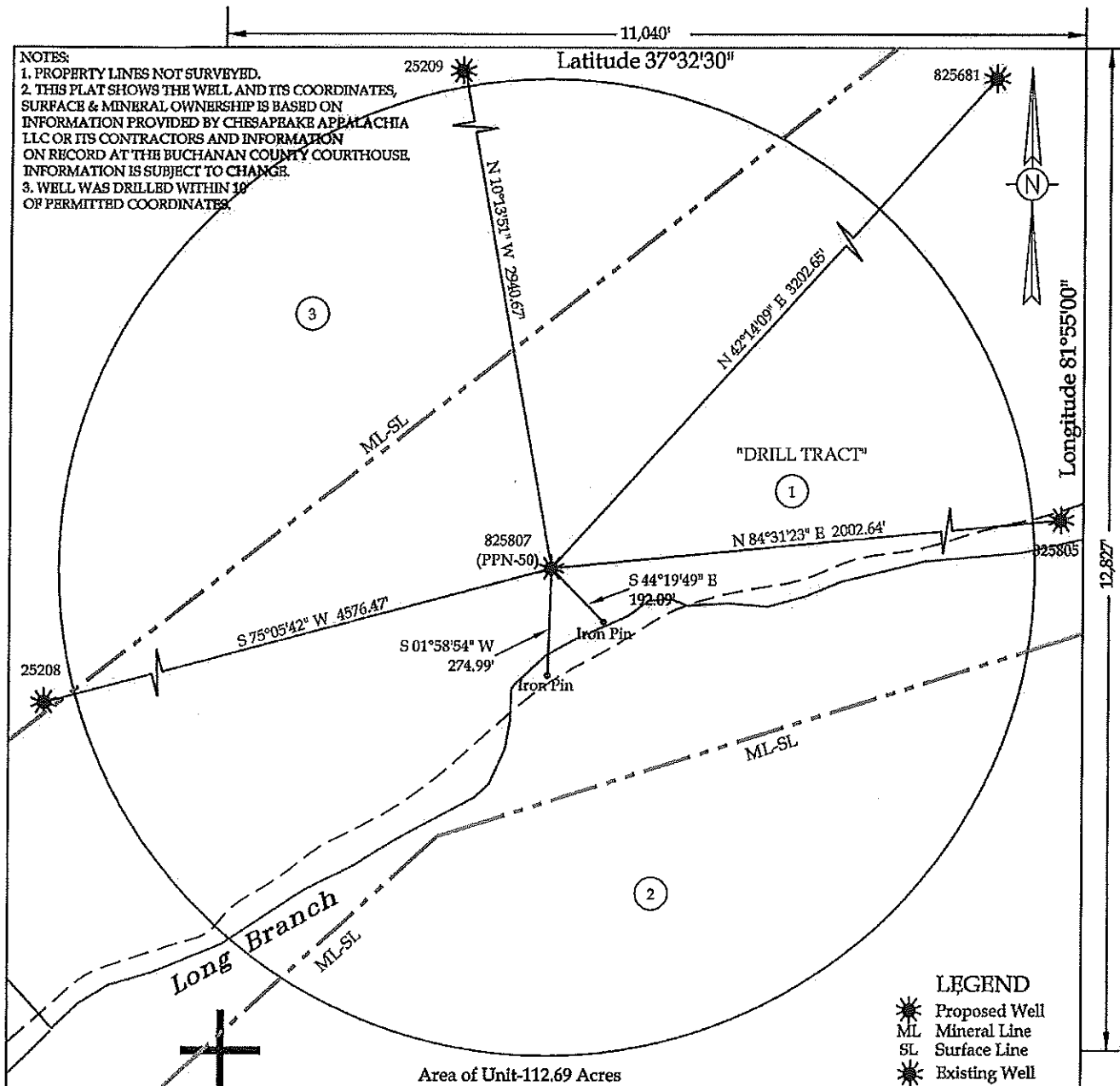
Buchanan Energy Co., LLC, Tract 99 (Fee)
61.17 Ac. ~ 54.28% of 112.69 Ac.

(2)

Buchanan Energy Co., LLC, Tract 95 (Fee)
23.10 Ac. ~ 20.50% of 112.69 Ac.

(3)

Buchanan Energy Co., LLC, Tract 96 (Fee)
28.42 Ac. ~ 25.22% of 112.69 Ac.



WELL LOCATION PLAT

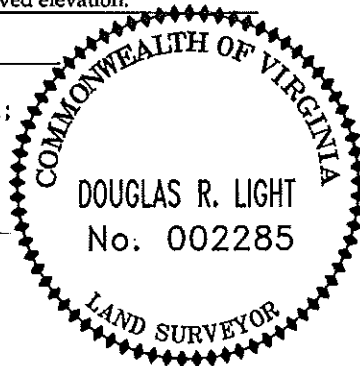
Company CHESAPEAKE APPALACHIA, LLC Well Name or Number 825807 (PPN-50)
 Tract No. BUCHANAN ENERGY CO., LLC ~ TRACT 99 Quadrangle WHARNCLIFFE
 District KNOX
 Well Coordinates (Virginia State Plane) N:445,403.15 E: 998,044.42
 Elevation: 1053.69 Method Used to Determine Elevation: Trig. Levels from GPS derived elevation.
 County BUCHANAN Scale: 1" = 400' Date 1-26-07

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.

Form DGO-GO-7
 Rev. 1-98

Douglas R. Light
 Licensed Professional Engineer or Licensed Land Surveyor



Well 825807 COALBEDS				MINING IN AREA		
NAME	TOP	BOTTOM	THICKNESS	YES	NO	MINED OUT
NONE					X	NO

Well 825807 SURVEY RESULTS	
Depth of Survey	Direction/Distance/Degree From True Vertical
200	1/4 degree
400	1/4 degree
600	1/2 degree
800	3/4 degree
1000	3/4 degree
1200	3/4 degree
1400	3/4 degree

Well 825807 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"	35'KB	17-1/2"	Driven	No		
Fresh Water Protection	9-5/8"	318' KB	12-3/8"	105	Yes	12/6/2006	Grout basket at 98'KB
Salt Water Protection	7"	1553'KB	8-7/8"	140	Yes	12/9/2006	Grout basket at 88'KB
Production	4-1/2"	5435' KB	6-1/4"	332	No	12/16/2006	

Well 825807 DRILLER'S LOG		General		Depth	Depth		
Geologic Age	Formation	Lithology	Color	Top	Bottom	Thickness	Remarks
Penn	Lee	Siltstone & Shale/Coal		0	655	655	
Penn	Salt Sand	Sandstone		655	1415	760	
Miss	Pennington	Siltstone & Shale		1415	1630	215	
Miss	Ravenclyff	Sandstone		1630	1655	25	
Miss	Pennington	Siltstone & Shale		1655	1754	99	
Miss	Upper Maxon	Sandstone		1754	1879	125	
Miss	Pennington	Siltstone & Shale		1879	1995	116	
Miss	Lower Maxon	Sandstone		1995	2085	90	
Miss	Pennington	Siltstone & Shale		2085	2290	205	
Miss	Bradley	Sandstone		2290	2382	92	
Miss	Pennington	Siltstone & Shale		2382	2403	21	
Miss	Little Lime	Limestone		2403	2454	51	
Miss	Big Lime	Limestone		2454	2833	379	
Miss	Pennington	Siltstone & Shale		2833	3000	167	
Miss	Weir	Sandstone		3000	3048	48	
Miss	Pocono	Shale		3048	3424	376	
Miss	Sunbery	Shale		3424	3435	11	
Miss	Berea	Sandstone		3435	3448	13	
Devonian	Devonian Shale	Shale		3448	3733	285	
Devonian	Gordon	Sandstone		3733	3800	67	
Devonian	Devonian Shale	Shale		3800	4099	299	
Devonian	Elk	Sandstone		4099	4124	25	
Devonian	Devonian Shale	Shale		4124	4477	353	
Devonian	Lower Huron	Shale		4477	4841	364	
Devonian	Java	Shale		4841	4957	116	
Devonian	Angola	Shale		4957	5158	201	
Devonian	Rhinesteet	Shale		5158	5359	201	
Devonian	Marcellus	Shale		5359	5365	6	
Devonian	Onondoga	Limestone		5365	5470	105	