



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: 301  
 Company: Equitable Production Company  
 File Number: WS-0779  
 Operations Name: V-501836 W/PL  
 Operation Type: Gas/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/28/2006 Drilling Contractor: Gasco  
 Date drilling completed: 9/1/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 5,132  
 Log Total Depth (feet): 5,142 Formation At Total Depth Cleveland Shale

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

Permitted State Plane X: 852,815 Final Plat State Plane X: 852,815  
 Permitted State Plane Y: 240,337 Final Plat State Plane Y: 240,336

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
final plat 501836	V-501836 final plat.tif

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
103	1/2" - 1"	INCH

Salt Water At:

Depth (in feet)	Rate	Unit of Measure
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**Coal Seams**

List of Attached Items:

Description	FileName
coal seams 501836	Coal Seams.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
gas shows 501836	Gas and Oil Shows.doc

**4. Electric Logs** (As required by 4VAC25-150-280.A.)

List all logs run: GR/Density/Temp/Induction/Neutron

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
surveys 501836	Survey Results.doc

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
csg 501836	Casing Dat1.doc
tbg 501836	Tubing Size.doc

**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: \_\_\_\_\_

List of Attached Items:

Description	FileName
drillers log 501836	Drillers Log.doc

**9. Comments**

Inspector wanted me to reject this because you are showing the 4 1/2" casing cemented to surface, when it was not. Please correct and re-submit.  
Corrected csg & also added new drillers log from surface 06/21 KT

**10. Signature**

Permitee: Equitable Production Company Date: 6/25/2007 (Company)

Signed By: L. Todd Tetrick Title: Director of Drilling (Signature)

**INTERNAL USE ONLY**

Submit Date: 6/25/2007

Status: Inspr Approved

Date: 6/27/2007

Final PDF Date: 7/3/2007

Well Coordinates: (Geographic N27)  
36.927929° 82.425715°

Latitude 36° 57' 30"

2,605'

Longitude 82° 25' 00"

11,115'

1250'R

P-348

N 85°31' W  
2,109'

Vernoy McCarty - surface

Surface P

Pine Branch

IP

Verl Kilgore - surface

N 55°57' W  
310.22'

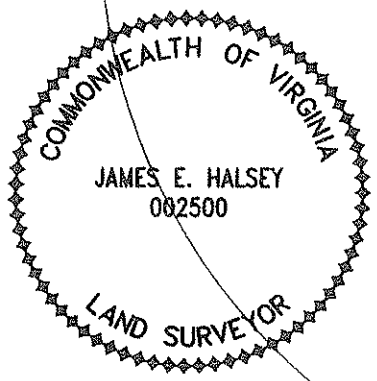
Verl Kilgore - surface

V-501836  
S 51°31' E  
155.43'

Surface P

N 88°35' E  
2,078'

P-347



Lease No. 241709L  
Banner Coal Company  
Equitable Production Company - oil & gas  
P/O 2,493.64 Acres  
ACIN LLC - coal  
Alpha Land & Reserves LLC - coal lessee  
WBRD LLC - coal  
Dickenson-Russell Coal Company LLC - coal lessee  
Gas 112.69 Ac. 100.00%

The undersigned hereby certifies that the final location is within ten (10') feet of the location shown on the well plat dated 7-24-2006.

Well elevation determined by GPS survey from BM MCD 229

**FINAL PLAT**

Area of Unit = 112.69 Ac.

Well Coordinates: (Va. St. Plane S. Zone, NAD 27, calculated from NAD 83 coord.)  
N 240,335.88 E 852,814.51

WELL LOCATION PLAT

COMPANY Equitable Production Company WELL NAME AND NUMBER V-501836  
TRACT NO. Lease No. 241709L ELEVATION 2,087.0' QUADRANGLE Coeburn  
COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 8-29-2006  
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.

James E. Halsey  
Licensed Professional Engineer or Licensed Land Surveyor

**Coal Seams & Open Mines**

<u>Type</u>	<u>From</u>
Coal	130'-31',210'-11',445'-46',524'-25',725'-26',855'-56',
Coal	870'-71',915'-16',1060'-61',1140'-41',1200'-01',
Coal	1540'-41',1645'-46'

<b>Gas and Oil Shows</b>
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**Gas Tests**

<u>Depth</u>	<u>Remarks</u>
3,095	No Show
4,347	4/10
4,786	4/10

<b>Survey Results</b>
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<u>Depth</u>	<u>Direction/Distance/Degrees From True Vertical</u>
199	1/4
386	1/4
575	1/4
765	1/4
954	1/4
1,144	1/4
1,333	1/4
1,522	1/4
1,712	1/4
1,901	1/4
2,090	1/2

<b>Casing Data</b>
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Casing Outside Diameter	Casing Interval	Hole Size	Cement used in Cu. ft.	Cmtd To Surface	Date Cemented	Cement Baskets
16	24	17 1/2				
11 3/4	337	15	236.00	y	08/29/2006	73
7	2130	8 7/8	567.80	y	08/30/2006	404
4 1/2	5093	6 1/2	494.96	n	09/02/2006	



**Tubing**  
**Size**  
2 3/8

**Footage**  
4,941.75

**Drillers**  
**Log**

<b><u>Formation Name</u></b>	<b><u>Depth Top</u></b>	<b><u>Depth Bottom</u></b>	<b><u>Formation Thickness</u></b>
	0.00	0.00	0.00
OverBurden	0.00	3.00	3.00
Base LEE	0.00	1,774.00	0.00
Sand Stone	3.00	80.00	77.00
Sandy Shale	80.00	130.00	50.00
Coal	130.00	131.00	1.00
Sandy Shale	131.00	155.00	24.00
Sand Stone	155.00	210.00	55.00
Coal	210.00	211.00	1.00
Sandy Shale	211.00	290.00	79.00
Sand Stone	290.00	360.00	70.00
Sandy Shale	360.00	445.00	85.00
Coal	445.00	446.00	1.00
Sand Stone	446.00	624.00	178.00
Coal	624.00	625.00	1.00
Sandy Shale	625.00	725.00	100.00
Coal	725.00	726.00	1.00
Sandy Shale	726.00	855.00	129.00
Coal	855.00	856.00	1.00
Sandy Shale	856.00	870.00	14.00
Coal	870.00	871.00	1.00
Sandy Shale	871.00	915.00	44.00
Coal	915.00	916.00	1.00
Sand Stone	916.00	1,060.00	144.00
Coal	1,060.00	1,061.00	1.00
Sandy Shale	1,061.00	1,140.00	79.00
Coal	1,140.00	1,141.00	1.00
Sand Stone	1,141.00	1,200.00	59.00
Coal	1,200.00	1,201.00	1.00
Sandy Shale	1,201.00	1,540.00	339.00
Coal	1,540.00	1,541.00	1.00
Sand Stone	1,541.00	1,645.00	104.00
Coal	1,645.00	1,646.00	1.00
Sandy Shale	1,646.00	2,045.00	399.00
Red Rock	2,045.00	2,050.00	5.00
Sandy Shale	2,050.00	2,344.00	294.00
RVCF	2,344.00	2,578.00	234.00
AVIS	2,578.00	2,636.00	58.00
MXTN	2,636.00	0.00	0.00
LLIM	3,510.00	3,586.00	76.00
BGLM	3,586.00	4,352.00	766.00
WEIR	4,352.00	4,546.00	194.00
WEIR Sh	4,546.00	4,789.00	243.00
SNBY	4,789.00	4,868.00	79.00
BEREA	4,868.00	5,006.00	138.00
CLEV	5,006.00	0.00	0.00

