



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: 336  
Company: Equitable Production Company  
File Number: DI-1604  
Operations Name: V-536798 W/PL  
Operation Type: Gas/Pipeline  
Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 10/23/2006      Drilling Contractor: Gasco  
Date drilling completed: 10/29/2006      Rig Type:  Rotary     Cable Tool  
Driller's Total Depth (feet): 6,250  
Log Total Depth (feet): 6,262      Formation At Total Depth: Olentangy

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

Permitted State Plane X: 848,048      Final Plat State Plane X: 848,050  
Permitted State Plane Y: 278,787      Final Plat State Plane Y: 278,787

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat 536798	Final Plat.doc

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
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Salt Water At:

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

List of Attached Items:

Description	FileName
Coal Seams/Open Mines 536798	Coal Seams.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
Gas & Oil Shows 536798	Gas and Oil Shows.doc

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

List all logs run: GR/Denisty/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
Survey results 536798	Survey Results.doc

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
Csg 536798	Casing Data.doc
Tbg. 536798	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.

Lost circ @ 440'-445' open mine

**8. Drillers Log**

Compiled By: \_\_\_\_\_

List of Attached Items:

Description	FileName
Drillers Log 536798	Drillers Log.doc

**9. Comments**

Drillers log incomplete. Not sure which csg. strings are cemented to surface.

**10. Signature**

Permitee: Equitable Production Company Date: 7/3/2007 (Company)

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

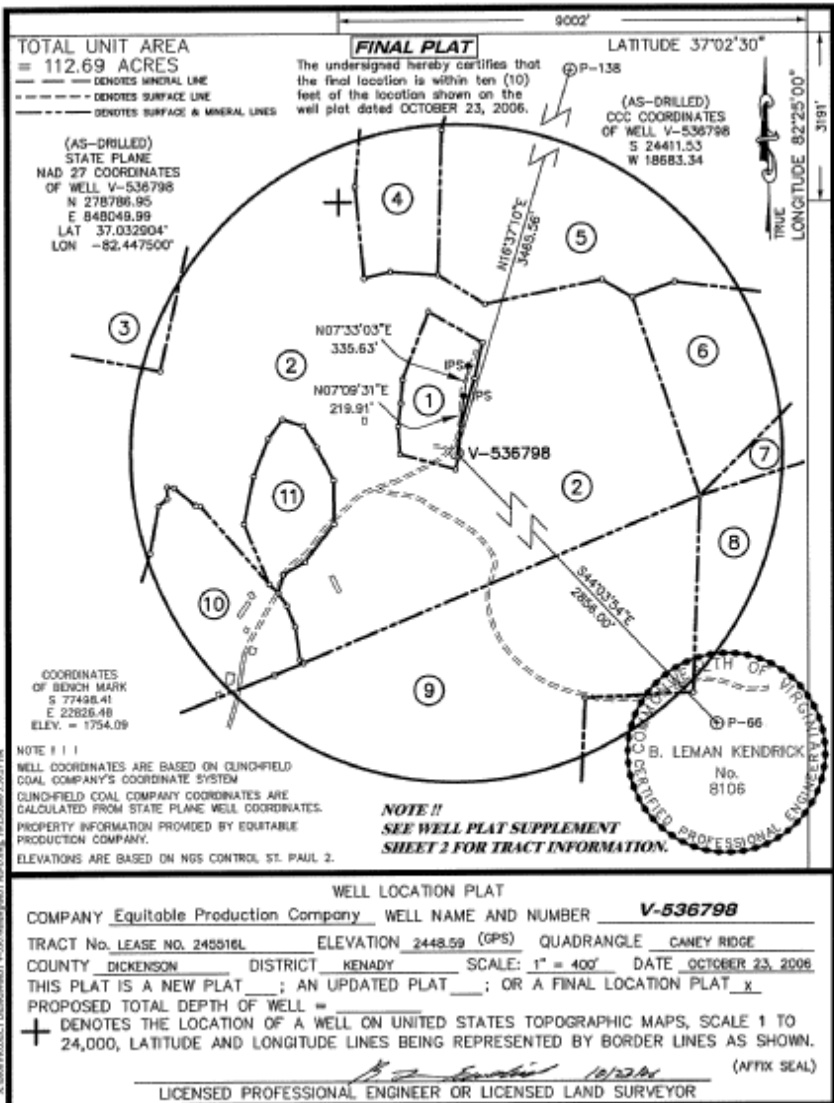
**INTERNAL USE ONLY**

Submit Date: 7/3/2007

Status: Inspr Approved

Date: 7/3/2007

Final PDF Date: 7/3/2007



TOTAL UNIT AREA  
= 112.69 ACRES

--- DENOTES MINERAL LINE  
- - - - - DENOTES SURFACE LINE  
- - - - - DENOTES SURFACE & MINERAL LINES

**FINAL PLAT**

The undersigned hereby certifies that the final location is within ten (10) feet of the location shown on the well plat dated OCTOBER 23, 2006.

LATITUDE 37°02'30"

(AS-DRILLED)  
CCC COORDINATES  
OF WELL V-536798  
S 24411.53  
W 18683.34

(AS-DRILLED)  
STATE PLANE  
NAD 27 COORDINATES  
OF WELL V-536798  
N 278796.95  
E 848048.99  
LAT 37.032904°  
LON -82.447500°

COORDINATES  
OF BENCH MARK  
S 77498.41  
E 22826.48  
ELEV. = 1794.09

NOTE !!!  
WELL COORDINATES ARE BASED ON GUNCHFIELD COAL COMPANY'S COORDINATE SYSTEM  
GUNCHFIELD COAL COMPANY COORDINATES ARE CALCULATED FROM STATE PLANE WELL COORDINATES.  
PROPERTY INFORMATION PROVIDED BY EQUITABLE PRODUCTION COMPANY.  
ELEVATIONS ARE BASED ON NGS CONTROL ST. PAUL 2.

**NOTE !!**  
SEE WELL PLAT SUPPLEMENT SHEET 2 FOR TRACT INFORMATION.



WELL LOCATION PLAT

COMPANY Equitable Production Company WELL NAME AND NUMBER V-536798

TRACT No. LEASE NO. 248916L ELEVATION 2448.59 (GPS) QUADRANGLE CANEY RIDGE

COUNTY DICKENSON DISTRICT KENADY SCALE: 1" = 400' DATE OCTOBER 23, 2008

THIS PLAT IS A NEW PLAT   ; AN UPDATED PLAT   ; OR A FINAL LOCATION PLAT X

PROPOSED TOTAL DEPTH OF WELL =   

+ 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.

B. Lemman Kendrick 10/23/08 (AFFIX SEAL)  
LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR

V:\2008 PROJECT DESIGN\8101 V-536798\8101 ASD.dwg, 10/23/08 2:30:27 PM

**Coal Seams & Open  
Mines**

<b><u>Type</u></b>	<b><u>From</u></b>
Coal	170'-71',415'-16',700'-01',830'-31',920'-21'
Coal	1030'-31',1060'-61',1195'-96',1420'-21',1550'-51'
Coal	1640'-41',1850'-51',2090'-91',2120'-21',2305'-06'
Open Mine	440'-45'

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

<u>Depth</u>	<u>Remarks</u>
3,150	TSTM
3,910	TSTM
4,687	TSTM
5,282	TSTM

**Survey Results**

<b><u>Depth</u></b>	<b><u>Direction/Distance/Degrees From True Vertical</u></b>
197	1/4
385	1/4
574	1/4
764	1/4
953	1/4
1,142	1/4
1,331	1/4
1,521	1/4
1,710	1/4
1,900	1/4
2,089	1/4
2,279	1/2
2,469	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	34	17 1/2				
11 3/4	318	15	224.20	Y	10/23/2006	98
7	2485	8 7/8	545.90	Y	10/26/2006	540
4 1/2	6202	6 1/2	484.20	N	10/29/2006	



Tubing Size  
2 3/8

Footage  
6,049.00

**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>
OverBurden	0.00	5.00	5.00
Sand Stone	5.00	50.00	45.00
Sandy Shale	50.00	170.00	120.00
Coal	170.00	171.00	1.00
Sand Stone	171.00	290.00	119.00
Sandy Shale	290.00	415.00	125.00
Coal	415.00	416.00	1.00
Sandy Shale	416.00	440.00	24.00
Open Mine	440.00	445.00	5.00
Sandy Shale	445.00	530.00	85.00
Sand Stone	530.00	700.00	170.00
Coal	700.00	701.00	1.00
Sandy Shale	701.00	830.00	129.00
Coal	830.00	831.00	1.00
Sand Stone	831.00	920.00	89.00
Coal	920.00	921.00	1.00
Sandy Shale	921.00	1,030.00	109.00
Coal	1,030.00	1,031.00	1.00
Sand Stone	1,031.00	1,060.00	29.00
Coal	1,060.00	1,061.00	1.00
Sand Stone	1,061.00	1,195.00	134.00
Coal	1,195.00	1,196.00	1.00
Sandy Shale	1,196.00	1,300.00	104.00
Sand Stone	1,300.00	1,420.00	120.00
Coal	1,420.00	1,421.00	1.00
Sandy Shale	1,421.00	1,510.00	89.00
Sand Stone	1,510.00	1,550.00	40.00
Coal	1,550.00	1,551.00	1.00
Sandy Shale	1,551.00	1,640.00	89.00
Sand Stone	1,641.00	1,810.00	169.00
Sandy Shale	1,810.00	1,850.00	40.00
Coal	1,850.00	1,851.00	1.00
Sand Stone	1,851.00	2,090.00	239.00
Coal	2,090.00	2,091.00	1.00
Sandy Shale	2,091.00	2,120.00	29.00
Coal	2,120.00	2,121.00	1.00
Sand Stone	2,121.00	2,170.00	49.00
Sandy Shale	2,170.00	2,305.00	135.00
Coal	2,305.00	2,306.00	1.00
Sandy Shale	2,306.00	2,350.00	44.00
Sand Stone	2,350.00	2,420.00	70.00
Sandy Shale	2,420.00	2,630.00	210.00
Red Rock	2,630.00	2,645.00	15.00
Sandy Shale	2,645.00	3,102.00	457.00
RVCF	3,102.00	3,180.00	78.00

AVIS	3,180.00	3,243.00	63.00
MXTN	3,608.00	3,999.00	391.00
LLIM	3,999.00	4,056.00	57.00
BGLM	4,056.00	4,652.00	596.00
BL-G	4,636.00	4,652.00	16.00
WEIR	4,652.00	4,914.00	262.00
WEIR Sh	4,914.00	5,150.00	236.00
SNBY	5,150.00	5,227.00	77.00
BEREA	5,227.00	5,286.00	59.00
CLEV	5,286.00	5,386.00	100.00
TLB	5,386.00	5,512.00	126.00
UHRN	5,512.00	5,562.00	50.00
MHRN	5,562.00	5,908.00	346.00
LHRN	5,908.00	6,111.00	203.00
OLNG	6,111.00	0.00	0.00
TD	6,250.00	0.00	0.00