



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

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**Tracking Number:** 1003  
**Company:** Equitable Production Company  
**File Number:** DI-1462  
**Operations Name:** V-536766 W/PL  
**Operation Type:** Gas/Pipeline  
**Drilling Report Type:** Original

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## DRILLING REPORT (DGO-GO-14)

### 1. Drilling Data

Date drilling commenced: 4/1/2006 Drilling Contractor: Gasco  
Date drilling completed: 4/6/2006 Rig Type:  Rotary  Cable  
Driller's Total Depth (feet): 5524.00  
Log Total Depth (feet): 5539.00 Formation At Total Depth Weir

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

Permitted State Plane X: 921119.34 Final Plat State Plane X: 921121.32  
Permitted State Plane Y: 300377.01 Final Plat State Plane Y: 300374.93

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat 536766	V-536766 final plat.tif

### 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 536766	Coal Seams.doc

*Gas and Oil Shows:*

List of Attached Items:

Description	FileName
Gas & Oil Shows 536766	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?

### 5. Survey Results (As required by 4VAC25-150-280.B.2)

List of Attached Items:

Description	FileName
Survey Results 536766	Survey Results.doc

### 6. Casing and Tubing Program

List of Attached Items:

Description	FileName
Casing 536766	Casing Data.doc
Tubing 536766	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.

Tubing ran on 02/26/07

### 8. Drillers Log

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

List of Attached Items:

Description	FileName
Drillers Log 536766	Drillers Log.doc

### 9. Comments

### 10. Signature

Permittee: Equitable Production Company Date: 2/21/2008

Signed By: Michael D. Butcher Title: Regional Manager-Drilling

### INTERNAL USE ONLY

Submit Date: 2/21/2008

Status: A

Date: 3/24/2008

Final PDF Date: 4/22/2008

TOTAL UNIT AREA  
= 112.69 ACRES

**FINAL PLAT**

LATITUDE 37°07'30"

9800'

LONGITUDE 82°10'00"

----- DENOTES SURFACE LINE

The undersigned hereby certifies that the final location is within ten (10) feet of the location shown on the well plat dated MAY 16, 2005.

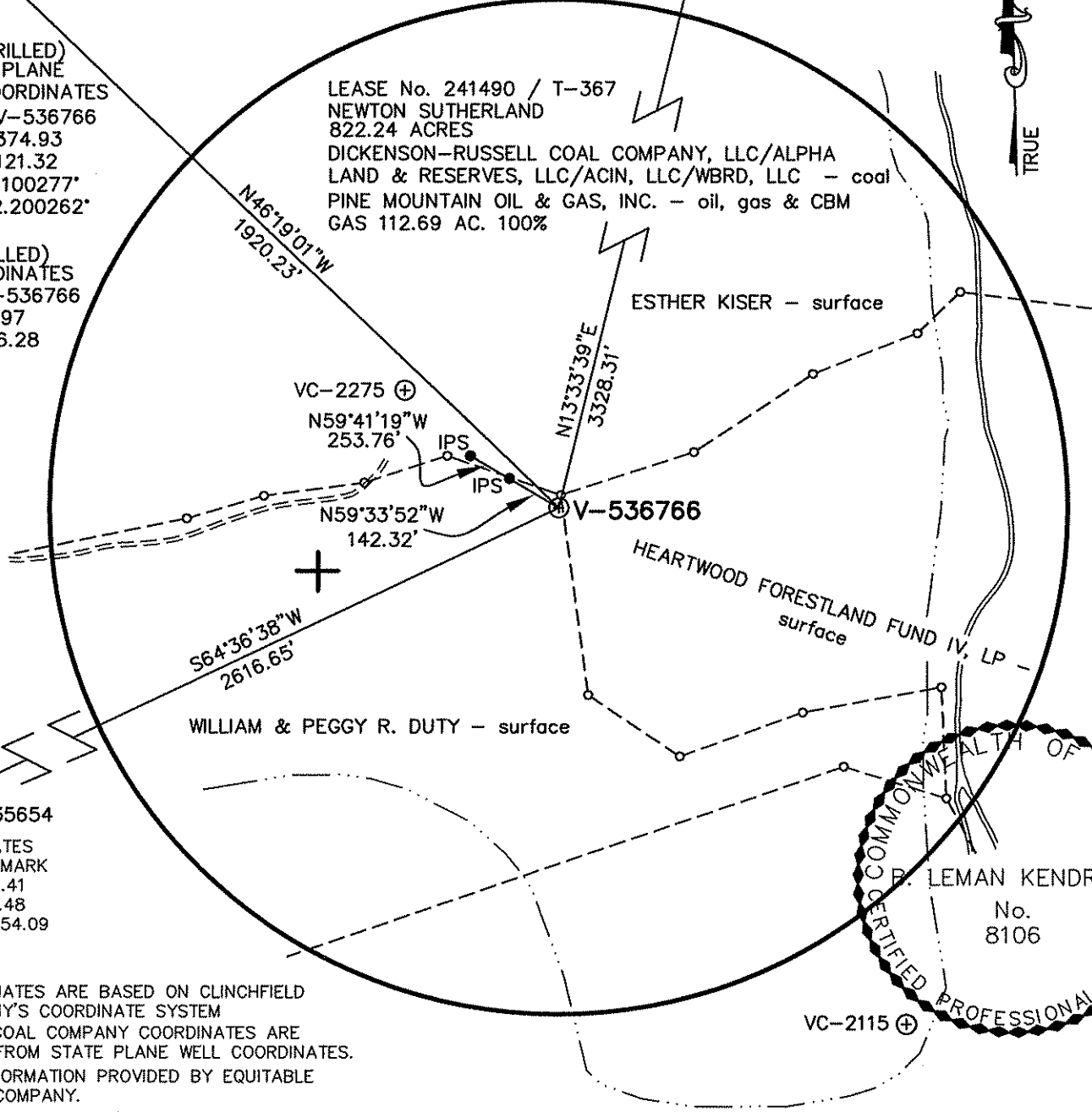
PROPOSED  
V-535655

(AS-DRILLED)  
STATE PLANE  
NAD 27 COORDINATES  
OF WELL V-536766  
N 300374.93  
E 921121.32  
LAT 37.100277°  
LON -82.200262°

(AS-DRILLED)  
CCC COORDINATES  
OF WELL V-536766  
N 118.97  
E 53426.28

LEASE No. 241490 / T-367  
NEWTON SUTHERLAND  
822.24 ACRES  
DICKENSON-RUSSELL COAL COMPANY, LLC/ALPHA  
LAND & RESERVES, LLC/ACIN, LLC/WBRD, LLC - coal  
PINE MOUNTAIN OIL & GAS, INC. - oil, gas & CBM  
GAS 112.69 AC. 100%

V-535656



ESTHER KISER - surface

HEARTWOOD FORESTLAND FUND IV, LP - surface

WILLIAM & PEGGY R. DUTY - surface

VC-2275  
N59°41'19"W  
253.76'

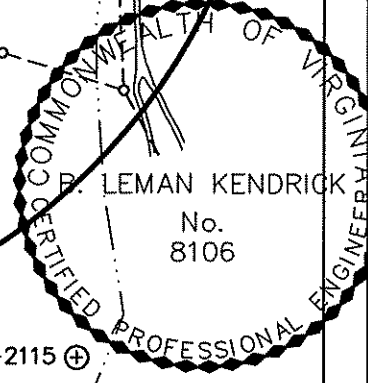
N59°33'52"W  
142.32'

M13°33'39"E  
3328.31'

S64°36'38"W  
2616.65'

V-535654

COORDINATES  
OF BENCH MARK  
S 77498.41  
E 22826.48  
ELEV. = 1754.09



NOTE !!!  
WELL COORDINATES ARE BASED ON CLINCHFIELD COAL COMPANY'S COORDINATE SYSTEM  
CLINCHFIELD 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.

WELL LOCATION PLAT

COMPANY Equitable Production Company WELL NAME AND NUMBER V-536766  
TRACT No. LEASE NO. 241490L/T-367 ELEVATION 2175.28 (GPS) QUADRANGLE DUTY  
COUNTY DICKENSON DISTRICT ERVINTON SCALE: 1" = 400' DATE APRIL 6, 2006  
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.

*R. Leman Kendrick* 4/6/06

(AFFIX SEAL)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR

X:\2006 PROJECT DESIGN\8077 V-536766.dwg 8077 AS-D.dwg

<b>Coal Seams &amp; Open Mines</b>
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**Type**

Coal

Coal

Coal

**From**

184'-85',350'-51',475'-

76',565'-66',595'-96'

826'-27',860'-61',1100'-

01',1180'-81',1506'-07'

1881'-82',1920'-21',1939'-

40',1980'-81'

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

<u>Depth</u>	<u>Remarks</u>
2,964	TSTM
3,390	188 MCF/D
3,589	111 MCF/D
4,617	119 MCF/D
5,524	178 MCF/D

**Survey  
Results**

<u>Depth</u>	<u>Direction/Distance/Degrees From True Vertical</u>
196	1/4
382	1/4
570	1/4
758	1/4
947	1/4
1,137	1/4
1,328	1/4
1,517	1/4
1,706	1/4
1,893	1/4
2,082	1/4
2,269	1/2
2,460	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	38	17 1/2				
11 3/4	318	15	253.00	y	04/01/2006	88
7	2525	8 7/8	671.20	y	04/03/2006	397
4 1/2	5486	6 3/8	497.65	n	04/06/2006	



Tubing Size

2-3/8"

Footage

4807'

**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	20.00	20.00
soapstone	20.00	73.00	53.00
Sand Stone	73.00	184.00	111.00
Coal	184.00	185.00	1.00
Sandy Shale	185.00	244.00	59.00
Sand Stone	244.00	340.00	96.00
Coal	350.00	351.00	1.00
Sand Stone	351.00	475.00	124.00
Coal	475.00	476.00	1.00
Sandy Shale	476.00	565.00	89.00
Coal	565.00	566.00	1.00
Sand Stone	566.00	595.00	29.00
Coal	595.00	596.00	1.00
Sand Stone	596.00	826.00	230.00
Coal	826.00	827.00	1.00
Sandy Shale	827.00	860.00	33.00
Coal	860.00	861.00	1.00
Sand Stone	861.00	1,100.00	239.00
Coal	1,100.00	1,101.00	1.00
Sandy Shale	1,101.00	1,180.00	79.00
Coal	1,180.00	1,181.00	1.00
Sandy Shale	1,181.00	1,506.00	325.00
Coal	1,506.00	1,507.00	1.00
Sand Stone	1,507.00	1,881.00	374.00
Coal	1,881.00	1,882.00	1.00
Sandy Shale	1,882.00	1,920.00	38.00
Coal	1,920.00	1,921.00	1.00
Sandy Shale	1,921.00	1,939.00	18.00
Coal	1,939.00	1,940.00	1.00
Sand Stone	1,940.00	1,980.00	40.00
Coal	1,980.00	1,981.00	1.00
Sand Stone	1,981.00	2,300.00	319.00
Sandy Shale	2,300.00	2,828.00	528.00
RVCF	2,828.00	2,912.00	84.00
AVIS	2,912.00	2,979.00	67.00
MXTN	3,370.00	3,562.00	192.00
LLIM	3,864.00	3,922.00	58.00
BGLM	3,922.00	4,648.00	726.00
WEIR	4,648.00	4,920.00	272.00
WEIR Sh	4,920.00	5,258.00	338.00
SNBY	5,258.00	5,304.00	46.00