



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: 178  
 Company: Equitable Production Company  
 File Number: DI-1331  
 Operations Name: V-535655 W/PL  
 Operation Type: Gas/Pipeline  
 Drilling Report Type: Original

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

#### 1. Drilling Data

Date drilling commenced: 8/9/2006 Drilling Contractor: Gasco  
 Date drilling completed: 8/14/2006 Rig Type:  Rotary  Cable Tool  
 Driller's Total Depth (feet): 5,501  
 Log Total Depth (feet): 5,517 Formation At Total Depth Cleveland Shale

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

Permitted State Plane X 919,786 Final Plat State Plane X: 919,790  
 Permitted State Plane Y: 301,755 Final Plat State Plane Y: 301,759

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
final plat 535655	V-535655 final plat.tif

#### 3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure
264	damp	

Salt Water At:

Depth (in feet)	Rate	Unit of Measure

**Coal Seams**

List of Attached Items:

Description	FileName
coal seams 535655	Coal Seams.doc

**Gas and Oil Shows**

List of Attached Items:

Description	FileName
gas show 535655	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 535655	Survey Results.doc

**6. Casing and Tubing Program**

List of Attached Items:

Description	FileName
csg 535655	Casing Data.doc
tbg 535655	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
drlg log 535655	Drillers Log.doc

**9. Comments**

**10. Signature**

Permitee: Equitable Production Company Date: 3/26/2007 (Company)

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

**INTERNAL USE ONLY**

Submit Date: 3/26/2007

Status: Inspr Approved

Date: 3/26/2007

Final PDF Date: 3/26/2007

TOTAL UNIT AREA  
= 112.69 ACRES

LATITUDE 37°07'30"

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

**FINAL PLAT**

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  
 GAS 112.69 AC. 100%

V-505371 ⊕

The undersigned hereby certifies  
 that the final location is within  
 ten (10) feet of the location shown  
 on the well plat dated OCTOBER 19, 2004.

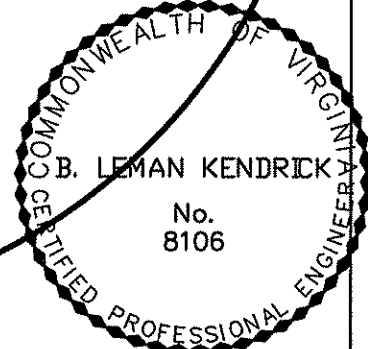
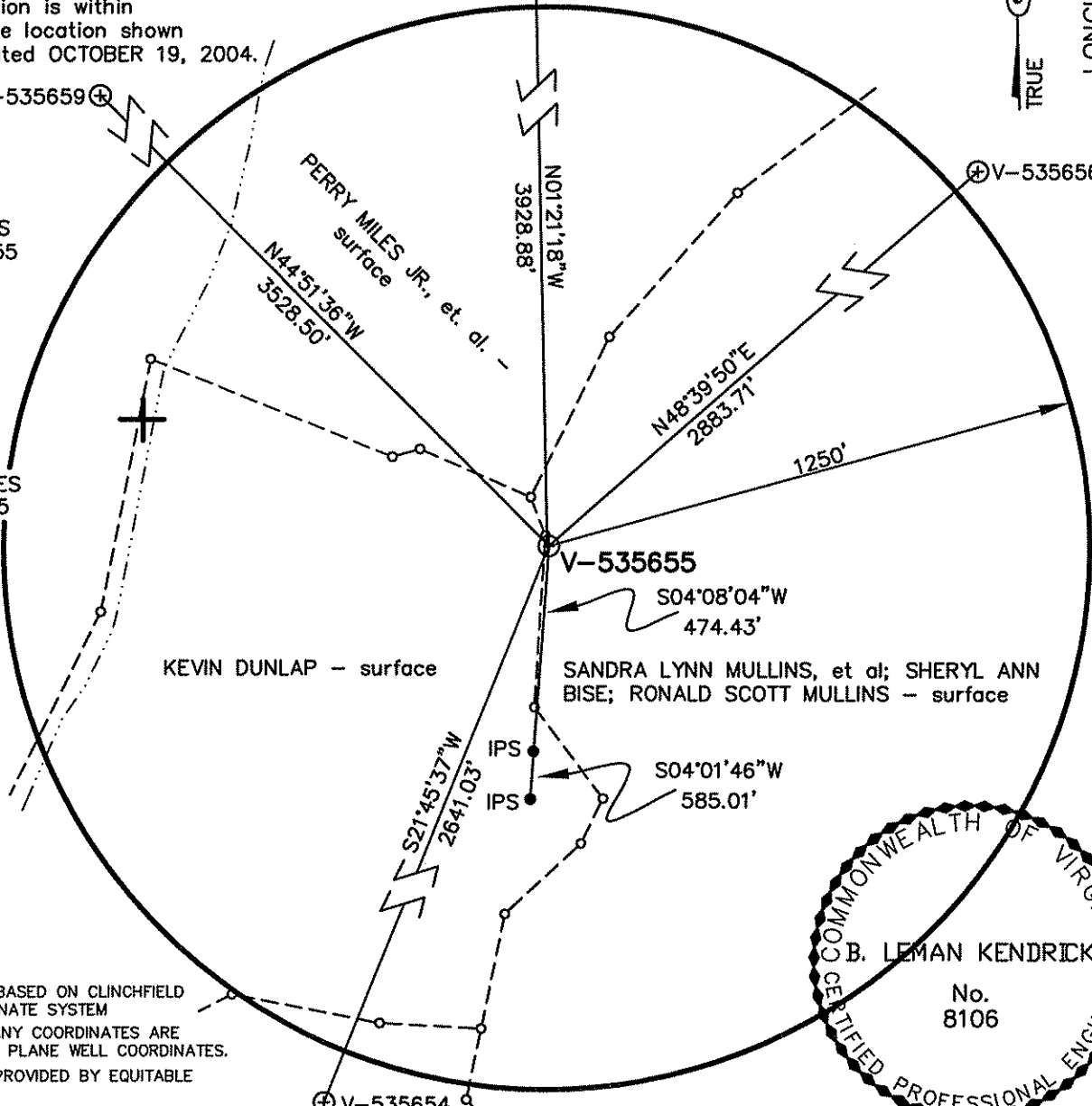
V-535659 ⊕

(AS-DRILLED)  
 CCC COORDINATES  
 OF WELL V-535655  
 N 1449.87  
 E 52041.45

(AS-DRILLED)  
 STATE PLANE  
 NAD 27 COORDINATES  
 OF WELL V-535655  
 N 301759.05  
 E 919789.85  
 LAT 37.103932°  
 LON -82.205010°

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-535655  
 TRACT No. LEASE NO. 241490/T-367 ELEVATION 2194.53 (GPS) QUADRANGLE DUTY  
 COUNTY DICKENSON DISTRICT ERVINTON SCALE: 1" = 400' DATE AUGUST 10, 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.

*B. Leman Kendrick*

(AFFIX SEAL)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR

X:\2006 PROJECT DESIGN\7516-11 V-535655.dwg 8/10/2006 10:12:18 AM

## Coal Seams & Open Mines

<u>Type</u>	<u>From</u>
Coal	155'-56',198'-200',250'-51',440'-41',520'-21'
Coal	690'-91',755'-56',790'-91',880'-81',1080'-81'
Coal	1130'-31',1165'-66',1255'-56',1425'-26',1489'-90'
Coal	1520'-21',1620'-21',1710'-11',1950'-51'

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

<u>Depth</u>	<u>Remarks</u>
2,934	No Show
3,750	TSTM
4,567	TSTM
5,315	TSTM

<b>Survey Results</b>
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<u>Depth</u>	<u>Direction/Distance/Degrees From True Vertical</u>
200	1/4
388	1/4
577	1/4
766	1/4
954	1/4
1,143	1/4
1,333	1/4
1,522	1/2
1,711	1/2
1,901	1/2
2,090	1/2
2,275	1/2

<b>Casing Data</b>
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Casing Outside Diameter	Casing Interval	Hole Size	Cement used in Cu. ft.	Date Cemented Cmtd To Surface	Cement Baskets
16	25	17 1/2			
11 3/4	337	15	236.00	08/09/2006	138
7	2436	8 7/8	641.40	08/12/2006	359
4 1/2	5448	6 1/2	470.75	08/14/2006	



Tubing  
Size  
2 3/8

Footage  
5,254.20

**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>
Base LEE	2,265.00	2,834.00	569.00
RVCF	2,834.00	2,916.00	82.00
AVIS	2,916.00	3,290.00	374.00
MXTN	3,290.00	3,868.00	578.00
LLIM	3,868.00	4,045.00	177.00
BGLM	4,045.00	4,618.00	573.00
WEIR	4,618.00	4,884.00	266.00
WEIR Sh	4,884.00	5,244.00	360.00
SNBY	5,244.00	5,290.00	46.00
BEREA	5,290.00	5,290.00	0.00
CLEV	5,306.00	5,501.00	195.00