



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: 620
 Company: Equitable Production Company
 File Number: DI-1655
 Operations Name: V-537557 W/PL
 Operation Type: Gas/Pipeline
 Drilling Report Type: Original

DRILLING REPORT (DGO-GO-14)

1. Drilling Data

Date drilling commenced: 1/24/2007 Drilling Contractor: Gasco
 Date drilling completed: 1/31/2007 Rig Type: Rotary Cable Tool
 Driller's Total Depth (feet): 5,692
 Log Total Depth (feet): 5,702 Formation At Total Depth Rhinestreet Shale

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

Permitted State Plane X 839,240 Final Plat State Plane X: 839,239
 Permitted State Plane Y: 292,322 Final Plat State Plane Y: 292,321

Plat Previously Submitted Or...

List of Attached Items:

Description	FileName
Final Plat 537557	V-537557 final plat.tif

3. Geological Data

Fresh Water At:

Depth (in feet)	Rate	Unit of Measure

Salt Water At:

Depth (in feet)	Rate	Unit of Measure

Coal Seams

List of Attached Items:

Description	FileName
Coal Seams 537557	Coal Seams.doc

Gas and Oil Shows

List of Attached Items:

Description	FileName
Gas shows 537557	Gas and Oil Shows 537557.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
Survey Results 537557	Survey Results.doc

6. Casing and Tubing Program

List of Attached Items:

Description	FileName
Csg. 537557	Casing Data.doc
Tbg/ 537557	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 537557	Drillers Log.doc

9. Comments

10. Signature

Permitee: Equitable Production Company Date: 8/29/2007 (Company)

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

INTERNAL USE ONLY

Submit Date: 8/29/2007

Status: Inspr Approved

Date: 10/4/2007

Final PDF Date: 10/4/2007

TOTAL UNIT AREA
= 112.69 ACRES

FINAL PLAT

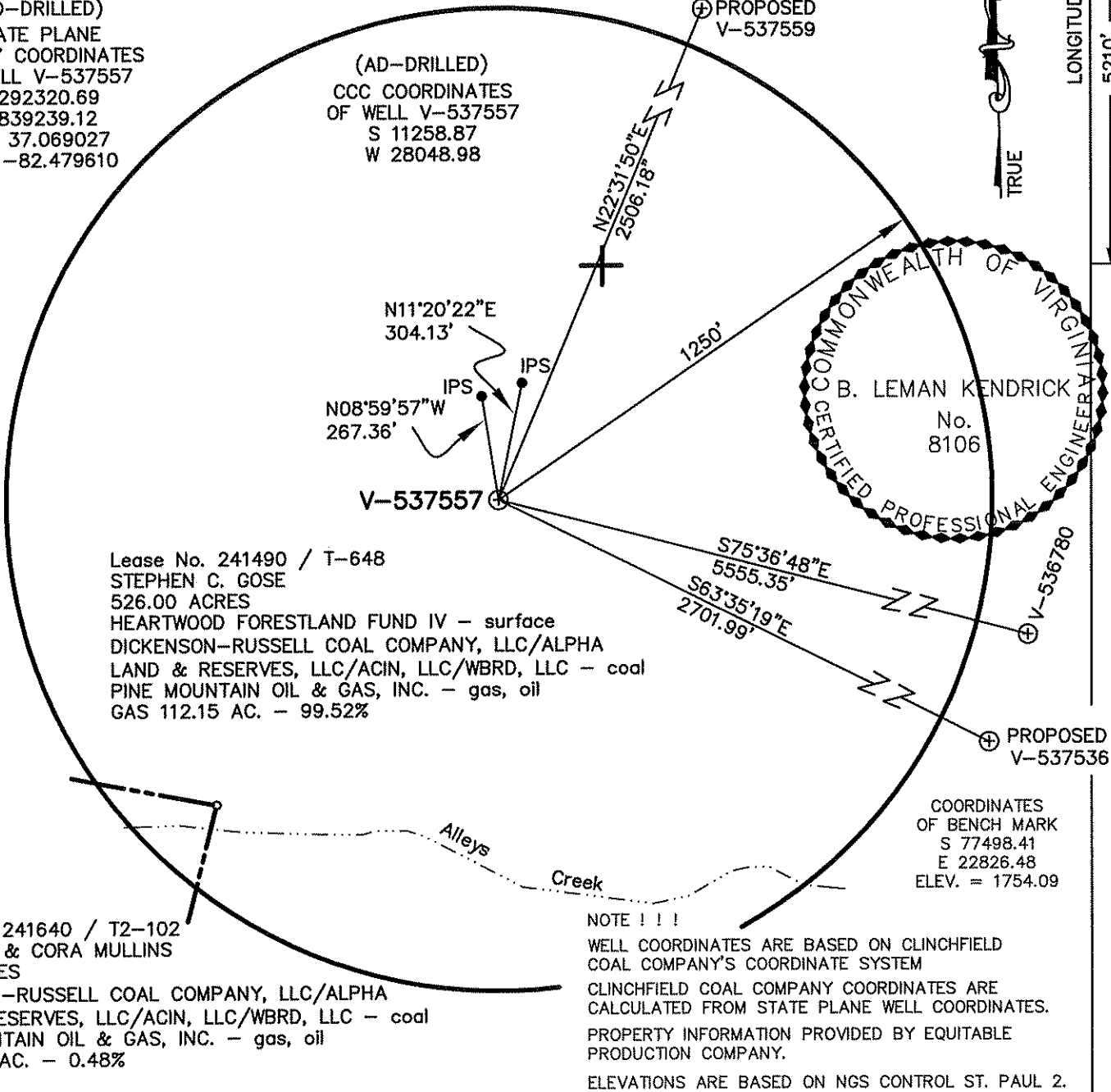
LATITUDE 37°05'00

The undersigned hereby certifies that
the final location is within ten (10)
feet of the location shown on the
well plat dated SEPTEMBER 19, 2006

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

(AD-DRILLED)
STATE PLANE
NAD 27 COORDINATES
OF WELL V-537557
N 292320.69
E 839239.12
LAT 37.069027
LON -82.479610

(AD-DRILLED)
CCC COORDINATES
OF WELL V-537557
S 11258.87
W 28048.98



Lease No. 241490 / T-648
STEPHEN C. GOSE
526.00 ACRES
HEARTWOOD FORESTLAND FUND IV - surface
DICKENSON-RUSSELL COAL COMPANY, LLC/ALPHA
LAND & RESERVES, LLC/ACIN, LLC/WBRD, LLC - coal
PINE MOUNTAIN OIL & GAS, INC. - gas, oil
GAS 112.15 AC. - 99.52%

Lease No. 241640 / T2-102
S.C. GOSE & CORA MULLINS
52.41 ACRES
DICKENSON-RUSSELL COAL COMPANY, LLC/ALPHA
LAND & RESERVES, LLC/ACIN, LLC/WBRD, LLC - coal
PINE MOUNTAIN OIL & GAS, INC. - gas, oil
GAS 0.54 AC. - 0.48%

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-537557

TRACT No. LEASE NO. 241490L/T-648 ELEVATION 1937.53 (GPS) QUADRANGLE CANEY RIDGE

COUNTY DICKENSON DISTRICT KENADY SCALE: 1" = 400' DATE JANUARY 23, 2007

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 1/23/07

(AFFIX SEAL)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR

Coal Seams & Open Mines
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Type

Coal

Coal

Coal

From

60'-61',250'-51',310'-11',460'-
61',500'-01'

650'-51',910'-11',1185'-
86',1260'-61',1485'-86'

1560'-61'

Gas and Oil Shows

Gas Tests

<u>Depth</u>	<u>Remarks</u>
2,687	59 MCF/D
3,409	59 MCF/D
4,005	59 MCF/D
5,692	178 MCF/D

**Survey
Results**

<u>Depth</u>	<u>Direction/Distance/Degrees From True Vertical</u>
197	1/4
384	1/4
574	1/4
952	1/4
1,141	1/4
1,331	1/4
1,520	1/4
1,709	1/4
1,899	1/2
2,088	1/2

Casing Data

Casing Outside Diameter	Casing Interval	Hole Size	Cement used in Cu. ft.	Cmtd To Surface	Date Cemented	Cement Baskets
12 3/4	21	15				
9 5/8	314	12 1/4	153.40	y	01/24/2007	94
7	2152	8 7/8	426.30	y	01/26/2007	357
4 1/2	5661	6 1/2	578.35	n	02/01/2007	

Tubing Size
2 3/8

Footage
5,564.55

Drillers
Log

<u>Formation Name</u>	<u>Depth Top</u>	<u>Depth Bottom</u>	<u>Formation Thickness</u>
OverBurden	0.00	15.00	15.00
soapstone	15.00	35.00	20.00
Sand Stone	35.00	60.00	25.00
Coal	60.00	61.00	1.00
Sandy Shale	61.00	250.00	189.00
Coal	250.00	251.00	1.00
Sand Stone	251.00	310.00	59.00
Coal	310.00	311.00	1.00
Sandy Shale	311.00	460.00	149.00
Coal	460.00	461.00	1.00
Sandy Shale	461.00	500.00	39.00
Coal	500.00	501.00	1.00
Sand Stone	501.00	650.00	149.00
Coal	650.00	651.00	1.00
Sandy Shale	651.00	705.00	54.00
Sand Stone	705.00	910.00	205.00
Coal	910.00	911.00	1.00
Sandy Shale	911.00	940.00	29.00
Sand Stone	940.00	1,185.00	245.00
Coal	1,185.00	1,186.00	1.00
Sandy Shale	1,186.00	1,200.00	14.00
Sand Stone	1,200.00	1,260.00	60.00
Coal	1,260.00	1,261.00	1.00
Sand Stone	1,261.00	1,485.00	224.00
Coal	1,485.00	1,486.00	1.00
Sandy Shale	1,486.00	1,560.00	74.00
Coal	1,560.00	1,561.00	1.00
Sandy Shale	1,561.00	1,610.00	49.00
Sand Stone	1,610.00	1,900.00	290.00
Sandy Shale	1,900.00	1,980.00	80.00
Base LEE	1,980.00	2,544.00	564.00
RVCF	2,544.00	2,606.00	62.00
AVIS	2,606.00	2,930.00	324.00
MXTN	2,930.00	3,378.00	448.00
LLIM	3,378.00	3,445.00	67.00
BGLM	3,445.00	3,992.00	547.00
WEIR	3,992.00	4,190.00	198.00
WEIR Sh	4,190.00	4,433.00	243.00
SNBY	4,433.00	4,504.00	71.00
BEREA	4,504.00	4,534.00	30.00
CLEV	4,534.00	4,646.00	112.00
TLB	4,646.00	4,770.00	124.00
UHRN	4,770.00	4,818.00	48.00
MHRN	4,818.00	5,128.00	310.00
LHRN	5,128.00	5,317.00	189.00
OLNG	5,317.00	5,482.00	165.00

TD

5,692.00

0.00

0.00