

Stratigraphic Data Source (E. Log) 7 Jacobson

Formation	Top	Datum (Subsea)	Thickness
Little Linc	4227	-1621	131
Top Greenbrier	4358	-1752	349
Base Greenbrier	4707	-2101	241
Sumburg	4948	-2342	188
Berea	5136	-2530	63
Dev. Shale (Cleveland)	5199	-2593	73
Three Lick	5272	-2666	81
U. Huron	5353	-2747	48
M. Huron	5401	-2795	275
L. Huron	5676	-3070	130
oleontangy	5806	-3200	192
Remarks <u>Coniferous</u>	5998	-3392	77
<u>TD</u>	6075	-3469	

References _____

Released to Open File: Completion _____
 Samples _____

(Note: UTM measurements in meters, all others in feet)

FG-82

OIL AND GAS WELL
SUMMARY REPORT

API No. 45-195-~~20263~~ ²⁰⁸¹⁹ VDMR Well Rep. No. _____
DMQ File No. WPA 173 WS-173

Operator ANK Production Company

Farm Plan Va.

Co. Well No. 10114

County Wise Quadrangle Flat Top-7 1/2'

Location (UTM) N4,097,830 ; E350,070 UTM Zone 17

(Lat. and Long.) _____

Field _____ Province Appalachian Plateaus

Elev. (specify) 2296.04 GR. TD 6085 Form. at TD Cornifrons

Age Devonian

Date compl. or abandoned December 8, 1966

Result Gas well

Gas Shows _____

Gas Pays _____

Main Production _____ Prod. Form. Devonian, Berea

Age Devonian, Mississippian

Treatment: Lower Devonian - 75 quality foam free, 59,942 pounds of

20/40 sand, 7411 pounds of 10/20 sand, 1,100,000 SCF of N₂, Upper

Devonian Berea - 75 quality foam free, 42,645 pounds of 20/40 sand,

7411 pounds of 10/20 sand, 717,000 SCF of N₂.

Initial Production _____

Oil shows _____

Water FW _____ at _____ at _____ at _____

SW _____ at _____ at _____ at _____

Coal 162-165.8, 193-195.5, 591-595.6, 893-895.7

Plat _____ Plotted _____ Completion Report

Drillers Log Geologic Log _____

Samples _____ Interval Sheet _____

Sample Interval _____

Remarks _____

Geophysical Logs S.P. _____ Res _____ Gamma _____ Neutron _____

Density _____ Sonic _____ Other _____

Stratigraphic Data Source

Roswell K. Bannock

Formation.	Top	Datum (Subsea)	Thickness
Wesland Norton	0	+2296.04	1826
Ice	1826	+470.04	1512
Bluestone	3338	-1041.96	123
Ravencliff	3461	-1164.96	94
Hinton	3535	-1258.96 ^{1258.96}	440
Maxton	3843	-1698.96 ^{1546.96}	152
Bluefield	3995	-1698.96	233
Greenbrier	4229	-1931.96	479
Imman	4707	-2410.96	71
Weir	4778	-2481.96	170
Sunbury	4948	-2651.96	188
Berea	5136	-2839.96	64
Devonian Shale	5200	-2903.96	796
Decollement	5730		76
Coniferous	5996	-3699.96	89

Remarks

References

Released to Open File: Completion April 7, 1987
 Samples None

(Note: UTM measurements in meters, all others in feet)

ANR PROD.CO.
PENN VA.
10114
FLAT BAR - 7 1/2'
SL. 2296.04

FORM 16

API WELL NO. 45 - 195 - 20819
State County Permit

Date:-- December 22, 1986
Operator's Well
Name #10114

W-173



VIRGINIA OIL AND GAS INSPECTOR
P. O. BOX 1416
ABINGDON, VA 24210
703-628-8115

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Gladeville District, Wise County, Virginia on g day, December month, 19 86.

WELL TYPE: Oil ___/ Gas X/ Enhanced recovery ___/ Waste Disposal ___/ If "Gas", Production X/ Underground Storage ___/ Exempt by Code Section 45.1-300.B.1. from general oil and gas conservation law: yes X/ no ___/

WELL WORK: Drill X/ Deepen ___/ Redrill ___/ Stimulate X/ Plug off old formation ___/ Perforate new formation X/ Plug ___/ Replug ___/ Other physical change in well (specify _____)

The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332.

X Ninety days from the filing of this report
OR
Two years from _____, 19____, the date on which the referenced well was COMPLETED, the well being an exploratory well as defined in Code of Virginia Section 45.1-288.21.

APPLICANT: ANR Production Company
BY A.B. [Signature]
ITS Manager, Drilling and Engineering
ADDRESS 111 E. Capitol St., Suite 400,
Jackson, MS 39201
TELEPHONE (601) 961-6315

Form 16
Appendix A, Sheet 1 (Reverse)
Continued from Obverse side

OTHER GENERAL INFORMATION

An electric log survey was X / was not ___ / conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was X / was not ___ / run for other purposes. This survey did ___ / did not X / disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were X / were not ___ / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was ___ / was not X / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

CHANGES IN THE PERMITTED WELL WORK

The well operator did ___ / did not X / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

FORM 16
APPENDIX A,
SHEET 1, (OBVERSE)

API WELL NO. 45 - 195 - 20819
State County Permit
Date: December 22, 1986
Operator's Well
Name #10114

REPORT OF COMPLETION OF WELL WORK
IF DRILLING, REDRILLING, OR DEEPENING IS INVOLVED

DRILLING CONTRACTOR Clint Hurt & Associates, Inc.
ADDRESS Post Office Box 1973, Midland, TX 79702
TELEPHONE (915) 683-6381

GEOLOGICAL TARGET FORMATION Devonian Shale, Weir
DEPTH OF COMPLETED WELL 6,085 FEET
DATE DRILLING COMMENCED 11/7/86
DATE DRILLING COMPLETED 11/20/86
DRILLING RIG: ROTARY X / CABLE TOOL /

GEOLOGICAL DATA Depth Thickness
 Top Bottom

Fresh Water Not measured.

Salt water Not measured.

Coal Seams	Top	Bottom	Thickness	Name	MINING IN AREA			
					Yes	No	Mined	Out
	162	165.8	3.8	Taggart				X
	193	195.5	2.5	Marker		X		
	591	595.6	4.6	Imboden		X		
	893	895.7	2.7	Bottom Clintwood Formation	X			
Oil	None							

Gas Not Measured Formation

below: The data on depth of strata is based on the source(s) checked

- X Applicant's own drilling experience in the area
X Information supplied by the coal operator in the area
 Information already in possession of the Inspector
 Other (as follows) _____

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes X / No ___ /
If Yes, was a coal protection string set to the red shales? Yes X / No ___

	SIZE	TOP	BOTTOM	LENGTH	PERFORATIONS	
					FROM	TO
<u>CONDUCTOR:</u>						
<u>CASING CIRCULATED AND CEMENTED IN TO SURFACE:</u>	13-3/8 10-3/4 7	Surf. " "	210' 942' 3945'	210' 942' 3945'		
<u>COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:</u>	7	Surf.	3945'	3945'		
<u>OTHER CASING AND TUBING LEFT IN WELL;</u>	4-1/2	Surf.	6022'	6022'		

LINERS LEFT IN WELL UNDER CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE: None

PACKERS OR BRIDGE PLUGS: KIND SIZE SET AT
None

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)

SAMPLES AND CUTTINGS

WILL X WILL NOT ___ BE AVAILABLE FOR EXAMINATION BY A MEMBER OF THE VIRGINIA DIVISION OF MINERAL RESOURCES
WILL X WILL NOT ___ BE FURNISHED THE VIRGINIA DIVISION OF MINERAL RESOURCES UPON REQUEST
WILL ___ WILL NOT ___ REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA DIVISION OF MINERAL RESOURCES.

DRILLER'S LOG

Compiled by Roswell K. Barranco

<u>Geologic Age</u>	<u>Formation</u>	<u>General Lithology</u>	<u>Color</u>	<u>Depth (feet)</u>		<u>Thickness</u>	<u>Remarks</u>
				<u>Top</u>	<u>Bottom</u>		
Pennsylvania	Wise & Norton	Sandstone		0	1826	1826	
	Lee	Sandstone & Shale		1826	3338	1512	
<hr/>							
Mississippian	Bluestone	Sandstone & Shale		3338	3461	123	
	Ravencliff	Sandstone		3461	3555	94	
	Hinton	Sandstone & Shale		3555	3995	440	
	Maxton	Sandstone		3843	3995	152	
	Bluefield	Sandstone, Shale & Limestone		3995	4228	233	
	Greenbrier (Big Lime)	Limestone		4228	4707	479	
	Injun	Sandstone & Shale		4707	4778	71	
	Weir	Siltstone		4778	4948	170	
	Sunbury	Shale		4948	5136	188	
	Berea	Siltstone		5136	5200	64	
<hr/>							
Devonian	Devonian Shale	Shale		5200	5996	796	
	Decollement			5730	5806	76	
<hr/>							
Silurian	Corniferous	Limestone		5996	6085	89	

APPENDIX TO REPORT OF COMPLETION OF WELL WORK
ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF

Indicated potential flow before stimulation N/A BOD
Gravity and grade: N/A

DISCOVERY OF GAS OR INDICATIONS THEREOF

Indicated potential flow before stimulation N/A MCFD
Rock pressure: not measurable psig N/A hour test

RECORD OF STIMULATION

Full description of stimulation:

Zone 1: Lower Devonian Formation

75 Quality Foam Frac: 59,942# 20/40, 7,411 # 10/20

1,100,000 SCF of N₂

Perforated 5652-5992 # Perfs. 70 Perf. Size .375

Breakdown 2780 psig. Avg. Injection 4300 psig.

Avg. I.R. 75 BPM Init. S.I.P. 2250 psig 15 Min. S.I.P. 1800 psig

Zone 2: Upper Devonian, Berea Formation

75 Quality Foam Frac: 42,645# 20/40, 7,411# 10/20

717,000 SCF of N₂

Perforated 5152-5412 # Perfs. 68 Perf. Size .375

Breakdown 2850 psig. Avg. Injection 4105 psig.

Avg. I.R. 102 BPM Init. S.I.P. 2100 psig 15 Min. S.I.P. 1600 psig

Zone 3: _____ Formation

Perforated _____ # Perfs. _____ Perf. Size _____

Breakdown _____ psig. Avg. Injection _____ psig.

Avg. I.R. _____ BPM Init. S.I.P. _____ psig 15 Min. S.I.P. _____ psig

Final production () natural () after stimulation

	BOD	MCFD	Hours Tested	Rock Pressure	Hours Tested
Zone 1:	<u>L. Devonian</u>	_____	_____	_____	_____
	<u>U. Devonian</u>	_____	_____	_____	_____
Zone 2:	<u>Berea</u>	_____	_____	_____	_____
Zone 3:	_____	_____	_____	_____	_____

Final production if gas zones are comingled: 60 MCFD

3 hours tested: _____ psig. _____ hours tested

DEVIATION SURVEY

Results

#10114

Depth From	Depth To	Survey
0	100 200	1-2 ⁰ 1/2 ⁰
0	300 450	1/2 ⁰ 3/4 ⁰
0	600 770	3/4 ⁰ 3/4 ⁰
0	900 1500	1 ⁰ 1-1/2 ⁰
0	2000 2500	1-3/4 ⁰ 2 ⁰
0	3000 3500	2-1/2 ⁰ 3 ⁰
0	4200 5000	3-1/2 ⁰ 3-1/2 ⁰
0	5500 6085	3-1/2 ⁰ 4 ⁰

ANR PRODUCTION CO.
PENN VA
10114

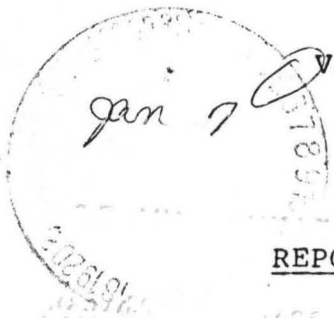
FORM 16

WS-173
FLAT GAP 7 1/2'
EL. - 2296.04' GR.

API WELL NO. 45 - 195 - 20819
State County Permit

Date: December 22, 1986
Operator's Well
Name #10114

WS-173



VIRGINIA OIL AND GAS INSPECTOR
P. O. BOX 1416
ABINGDON, VA 24210
703-628-8115

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Gladeville District, Wise County, Virginia on 8 day, December month, 19 86.

WELL TYPE: Oil ___ / Gas X / Enhanced recovery ___ / Waste Disposal ___ / If "Gas", Production X / Underground Storage ___
Exempt by Code Section 45.1-300.B.1. from general oil and gas conservation law: yes X / no ___
WELL WORK: Drill X / Deepen ___ / Redrill ___ / Stimulate X / Plug off old formation ___ / Perforate new formation X / Plug ___ / Replug ___ / Other physical change in well (specify _____)

The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332.

- X Ninety days from the filing of this report OR
- Two years from _____, 19____, the date on which the referenced well was COMPLETED, the well being an exploratory well as defined in Code of Virginia Section 45.1-288.21.

APPLICANT: ANR Production Company
BY A.R. Linnig
ITS Manager, Drilling and Engineering
ADDRESS 111 E. Capitol St., Suite 400,
Jackson, MS 39201
TELEPHONE (601) 961-6315

Form 16
Appendix A, Sheet 1 (Reverse)
Continued from Obverse side

OTHER GENERAL INFORMATION

An electric log survey was X / was not ___ / conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was X / was not ___ / run for other purposes. This survey did ___ / did not X / disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were X / were not ___ / required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was ___ / was not X / required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

CHANGES IN THE PERMITTED WELL WORK

The well operator did ___ / did not X / make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

FORM 16
APPENDIX A,
SHEET 1, (OBVERSE)

API WELL NO. 45 - 195 - 20819
State County Permit
Date: December 22, 1986
Operator's Well
Name #10114

REPORT OF COMPLETION OF WELL WORK
IF DRILLING, REDRILLING, OR DEEPENING IS INVOLVED

DRILLING CONTRACTOR Clint Hurt & Associates, Inc.
ADDRESS Post Office Box 1973, Midland, TX 79702
TELEPHONE (915) 683-6381

GEOLOGICAL TARGET FORMATION Devonian Shale, Weir
DEPTH OF COMPLETED WELL 6,085 FEET
DATE DRILLING COMMENCED 11/7/86
DATE DRILLING COMPLETED 11/20/86
DRILLING RIG: ROTARY X / CABLE TOOL /

GEOLOGICAL DATA Depth Thickness
 Top Bottom

Fresh Water Not measured.

Salt water Not measured.

	Top	Bottom	Thickness	Name	MINING IN AREA			
					Yes	No	Mined	Cut
Coal Seams	162	165.8	3.8	Taggart				X
	193	195.5	2.5	Marker		X		
	591	595.6	4.6	Imboden		X		
Oil	893	895.7	2.7	Bottom Clintwood Formation		X		
	None							

Gas Not Measured Formation

below: The data on depth of strata is based on the source(s) checked

X Applicant's own drilling experience in the area
X Information supplied by the coal operator in the area
 Information already in possession of the Inspector
 Other (as follows) _____

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes X / No ___ /
If Yes, was a coal protection string set to the red shales? Yes X / No ___

	SIZE	TOP	BOTTOM	LENGTH	PERFORATIONS	
					FROM	TO
<u>CONDUCTOR:</u>						
<u>CASING CIRCULATED AND CEMENTED IN TO SURFACE:</u>	13-3/8	Surf.	210'	210'		
	10-3/4	"	942'	942'		
	7	"	3945'	3945'		
<u>COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:</u>	7	Surf.	3945'	3945'		
<u>OTHER CASING AND TUBING LEFT IN WELL;</u>	4-1/2	Surf.	6022'	6022'		
<u>LINERS LEFT IN WELL UNDER CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE:</u>	None					
<u>PACKERS OR BRIDGE PLUGS:</u>	<u>KIND</u>	<u>SIZE</u>	<u>SET AT</u>			
	None					

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)

SAMPLES AND CUTTINGS

WILL X WILL NOT ___ BE AVAILABLE FOR EXAMINATION BY A MEMBER OF THE VIRGINIA DIVISION OF MINERAL RESOURCES
WILL X WILL NOT ___ BE FURNISHED THE VIRGINIA DIVISION OF MINERAL RESOURCES UPON REQUEST
WILL ___ WILL NOT ___ REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA DIVISION OF MINERAL RESOURCES.

DRILLER'S LOG

Compiled by Roswell K. Barranco

<u>Geologic Age</u>	<u>Formation</u>	<u>General Lithology</u>	<u>Color</u>	<u>Depth (feet)</u>		<u>Thickness</u>	<u>Remarks</u>
				<u>Top</u>	<u>Bottom</u>		
Pennsylvania	Wise & Norton	Sandstone		0	1826	1826	
	Lee	Sandstone & Shale		1826	3338	1512	
Mississippian	Bluestone	Sandstone & Shale		3338	3461	123	
	Ravencliff	Sandstone		3461	3555	94	
	Hinton	Sandstone & Shale		3555	3995	440	
	Maxton	Sandstone		3843	3995	152	
	Bluefield	Sandstone, Shale & Limestone		3995	4228	233	
	Greenbrier (Big Lime)	Limestone		4228	4707	479	
	Injun	Sandstone & Shale		4707	4778	71	
	Weir	Siltstone		4778	4948	170	
	Sunbury	Shale		4948	5136	188	
	Berea	Siltstone		5136	5200	64	
Devonian	Devonian Shale	Shale		5200	5996	796	
	Decollement			5730	5806	76	
Silurian	Corniferous	Limestone		5996	6085	89	

APPENDIX TO REPORT OF COMPLETION OF WELL WORK
ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF

Indicated potential flow before stimulation N/A BOD
Gravity and grade: N/A

DISCOVERY OF GAS OR INDICATIONS THEREOF

Indicated potential flow before stimulation N/A MCFD
Rock pressure: not measurable psig N/A hour test

RECORD OF STIMULATION

Full description of stimulation:

Zone 1: Lower Devonian Formation
75 Quality Foam Frac: 59,942# 20/40, 7,411 # 10/20
1,100,000 SCF of N₂
Perforated 5652-5992 # Perfs. 70 Perf. Size .375
Breakdown 2780 psig. Avg. Injection 4300 psig.
Avg. I.R. 75 BPM Init. S.I.P. 2250 psig 15 Min. S.I.P. 1800 psig

Zone 2: Upper Devonian, Berea Formation
75 Quality Foam Frac: 42,645# 20/40, 7,411# 10/20
717,000 SCF of N₂
Perforated 5152-5412 # Perfs. 68 Perf. Size .375
Breakdown 2850 psig. Avg. Injection 4105 psig.
Avg. I.R. 102 BPM Init. S.I.P. 2100 psig 15 Min. S.I.P. 1600 psig

Zone 3: _____ Formation

Perforated _____ # Perfs. _____ Perf. Size _____
Breakdown _____ psig. Avg. Injection _____ psig.
Avg. I.R. _____ BPM Init. S.I.P. _____ psig 15 Min. S.I.P. _____ psig

Final production () natural () after stimulation

	BOD	MCFD	Hours Tested	Rock Pressure	Hours Tested
Zone 1:	<u>L. Devonian</u>	_____	_____	_____	_____
	<u>U. Devonian</u>	_____	_____	_____	_____
Zone 2:	<u>Berea</u>	_____	_____	_____	_____
Zone 3:	_____	_____	_____	_____	_____

Final production if gas zones are comingled: 60 MCFD

3 hours tested: _____ psig. _____ hours tested

DEVIATION SURVEY

Results

#10114

Depth From	Depth To	Survey
0	100 200	1/2° 1/2°
0	300 450	1/2° 3/4°
0	600 770	3/4° 3/4°
0	900 1500	1° 1-1/2°
0	2000 2500	1-3/4° 2°
0	3000 3500	2-1/2° 3°
0	4200 5000	3-1/2° 3-1/2°
0	5500 6085	3-1/2° 4°

WS-173

(FOR OFFICE USE ONLY: API Well No. 45 - - State County Permit

Date: 12/17, 1986

Operator's Well No. 10114

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES
219 Wood Avenue
Big Stone Gap, Virginia 24219-1799
Phone 703-523-0335

WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new / updated X /

This plat is X / is not / based on a mine coordinate system established for the areas of the well location.

Well operator ANR PRODUCTION COMPANY

Address JACKSON, MISSISSIPPI
Farm PENN VIRGINIA RESOURCES CORPORATION
Tract 686 Acres 476.47 Lease No.
Elevation 2695.95'
Quadrangle FLAT GAP
County WISE District GLADEVILLE
Registered Engineer X Registration No. 11439
Certified Land Surveyor Cert. No.
File No. Drawing No.
Date 5-29-85 Scale 1" = 400'

Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board

Registered Engineer or Certified Land Surveyor in Charge

5,400'

Latitude 37° 02' 30"

Longitude 82° 40' 00"

9,200'

P.V.R.C. I.P.
STA. N° 4840
N 70,784.58
E 82,634.74

T-773
STEINMAN EXCHANGE
94.03 ACRES
FEE

FINAL LOCATION

DIXIANA MINE
TAGGART SEAM
ABANDONED

HIGHWALL

HIGHWALL

BAD

BRANCH

SPLINT

LOW

GAS WELL
10114
N 68,139.27
E 83,925.39
EL. 2695.95'

T-686
PRIDEMORE & VENABLE
476.47 ACRES
FEE

T-671
LAND M. STURGILL
37.80 ACRES
FEE

PINE
BRANCH MINE
TAGGART SEAM
ABANDONED

TAGGART

S 21° 18' 33" W
2487.70'

S 43° 22' 22"
2093.89'

EXISTING GAS
WELL 20,338-T
N 65,821.65
E 83,021.36

T-685
POWELL RIVER
COAL & IRON
464.24 ACRES
FEE

P.V.R.C. I.P.
STA. N° 4432
N 66,617.22
E 85,363.35

