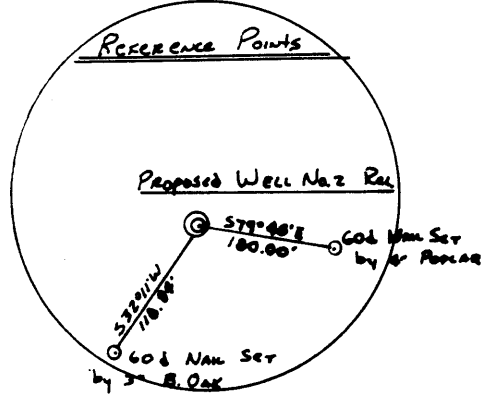


Note: No farm survey was run, I used adjoined deeds to draw this plat, because no good legal description could be found for the Adams, Carpenter tract.



FILE NO. F.B. 39
 DRAWING NO. B4007A
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION RD. INTERSECTION 942' SOUTH EAST OF LOCATION

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 ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Charles L. Bryan
 R.P.E. 9321 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



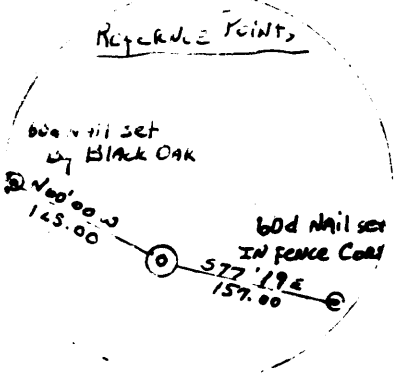
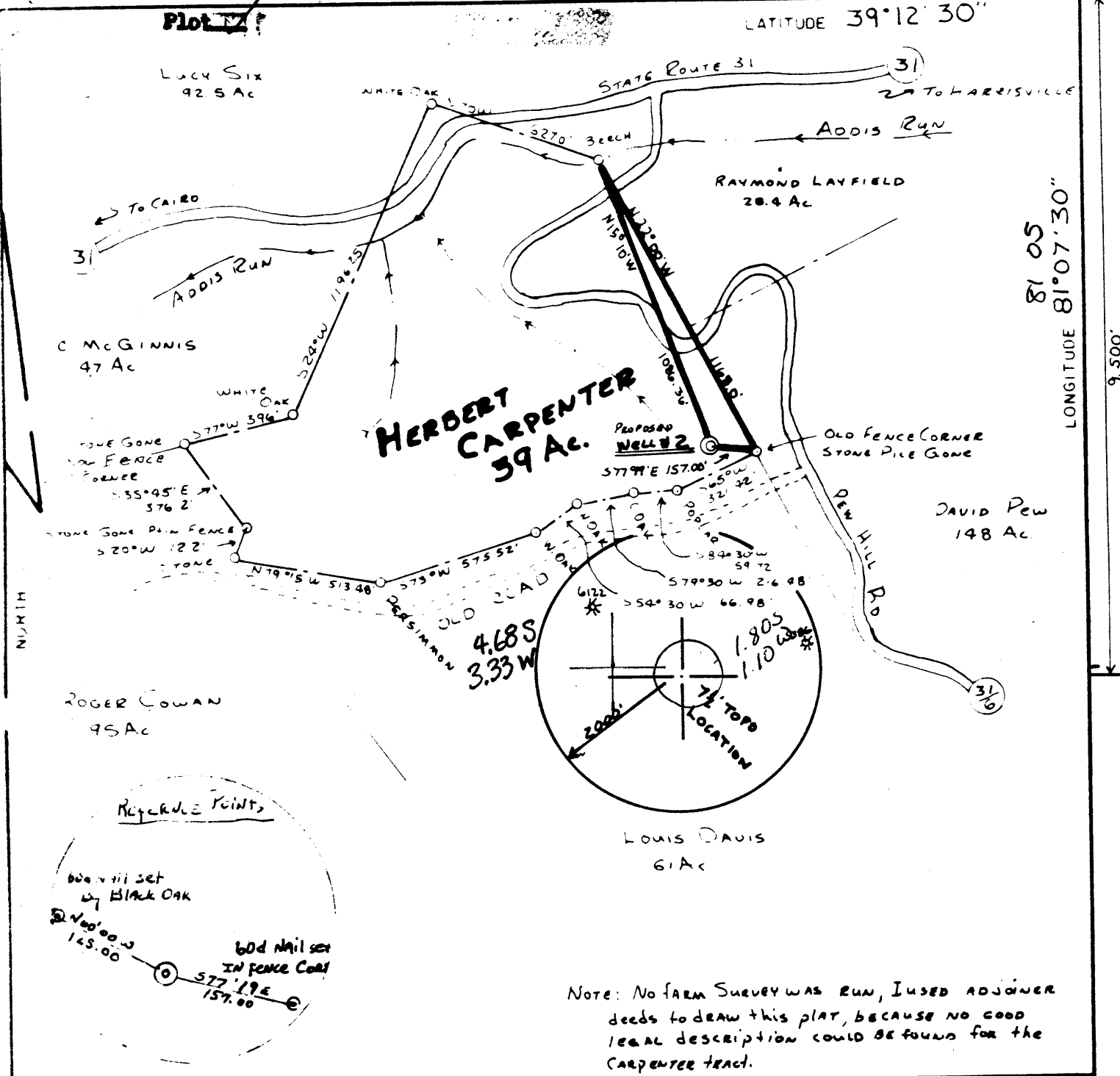
Department of Mines
 Oil & Gas Division

DATE 7-22, 1984
 OPERATOR'S WELL NO. Headlee-Adam
 API WELL NO. No. 2 Relocation
47-085-7071-Rev
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 906.60' WATER SHED ADDIS RUN
 DISTRICT GRANT 2 COUNTY RITCHIE
 QUADRANGLE CAIRO (7.5') 275 Harrisville 15' NC2
 SURFACE OWNER HELEN ADAMS & EMMA CARPENTER 657 ACREAGE 39
 OIL & GAS ROYALTY OWNER THOMAS HEADLEE ETC. LEASE ACREAGE 39
 LEASE NO. _____

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5100'
 WELL OPERATOR CLINT HURT & ASSOCIATES DESIGNATED AGENT J. DAVID BARTMAN
 ADDRESS ELKVIEW, W.VA. 25071 ADDRESS ELKVIEW, W.VA. 25071
 PHONE 344-2401 PHONE 344-2401

JAN 28 1985



Note: No farm survey was run, I used adjoining deeds to draw this plat, because no good legal description could be found for the Carpenter tract.

FILE NO. 38
 DRAWING NO. 84007
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1"=200'
 ELEVATION AT RD INTERSECTION 94' EAST OF LOCATION

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 ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES

(SIGNED) [Signature]
 DATE 4-3-84

PLACE SEAL HERE



Department of Mines
 Oil & Gas Division

DATE 2-10, 1984
 OPERATOR'S WELL NO. HEADLEE ADAMS No. 2
 API WELL NO. 47-085-7071
 STATE COUNTY PERMIT

WELL TYPE OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION ELEVATION 802.6' WATER SHED Addis Run
 DISTRICT GRANT 2 COUNTY RITCHIE
 QUADRANGLE CAIRO (7.5) 275 Harrisville 15' NW
 SURFACE OWNER Helen Adams & Emma Carpenter ACREAGE 39
 OIL & GAS ROYALTY OWNER THOMAS HEADLEE et al. LEASE ACREAGE 39

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5100' **JUL 30 1984**
 WELL OPERATOR CLINT HURT & ASSOCIATES DESIGNATED AGENT I. DAVID BARTRAM
 ADDRESS ELKVIEW, W.VA. 25071 389 ADDRESS ELKVIEW, W.VA. 25071
 PHONE 344-2401 PHONE 344-2401

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

First Stage - 40 perfs
4390 to 4900

Second Stage 38 perfs
3708 to 4350

Third Stage - 38 perfs
3570 to 3700

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
SALT	Sand		1330		Gas shown (Fresh water) At 105'
Mason			1652		
Big	Lime		1750		
Big	Injun		1864		Gas shown - 1860
Squaw			1980		
Berea			2380		
Gordon			2800		
Gantz			2880		
Speechly			3240		
Balltown			3620		
Riley			3800		
Benson			4700		
Alexander			4870		
T.D.			5079		

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JAN 20 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

404 2300
813 3550
822 4800

J. Keith Eakle
Well Operator

By: J. Keith Eakle
Date: 1-17-89

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: July 17, 19 84
 2) Operator's Well No. Adams #2
 3) API Well No. 47 - 085 - 7071
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 882.60 Watershed: Addis Run LKH105
 District: Grant County: Ritchie Quadrangle: Cairo 7.5'
- 6) WELL OPERATOR Clint Hurt & Associates, Inc. DESIGNATED AGENT I. David Bartram
 Address P. O. Box 388 Elkview, WV 25071 Address P. O. Box 388 Elkview, WV 25071
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel N. Hersman Address P. O. Box 166 Smithville, WV 26178
- 9) DRILLING CONTRACTOR: Name Clint Hurt & Associates, Inc. Address P. O. Box 388 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate _____
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 12) Estimated depth of completed well, 5100 feet
- 13) Approximate strata depths: Fresh, 210 feet; salt, 1500 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes

RECEIVED
 JUL 2 1984

OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	9 5/8			X			375'	150 sks.	<u>ITS NEAT</u>
Fresh water									
Coal									Sizes
Intermediate	7			X			2500'	375 sks.	
Production	4 1/2			X			5100'	225 sks.	Depths set
Tubing								<u>or as req. by rule 15.01</u>	
Liners									Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-085-7071 Date July 20, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires July 20, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>77</u> BLANKET	Agent: <input checked="" type="checkbox"/>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>3212</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File