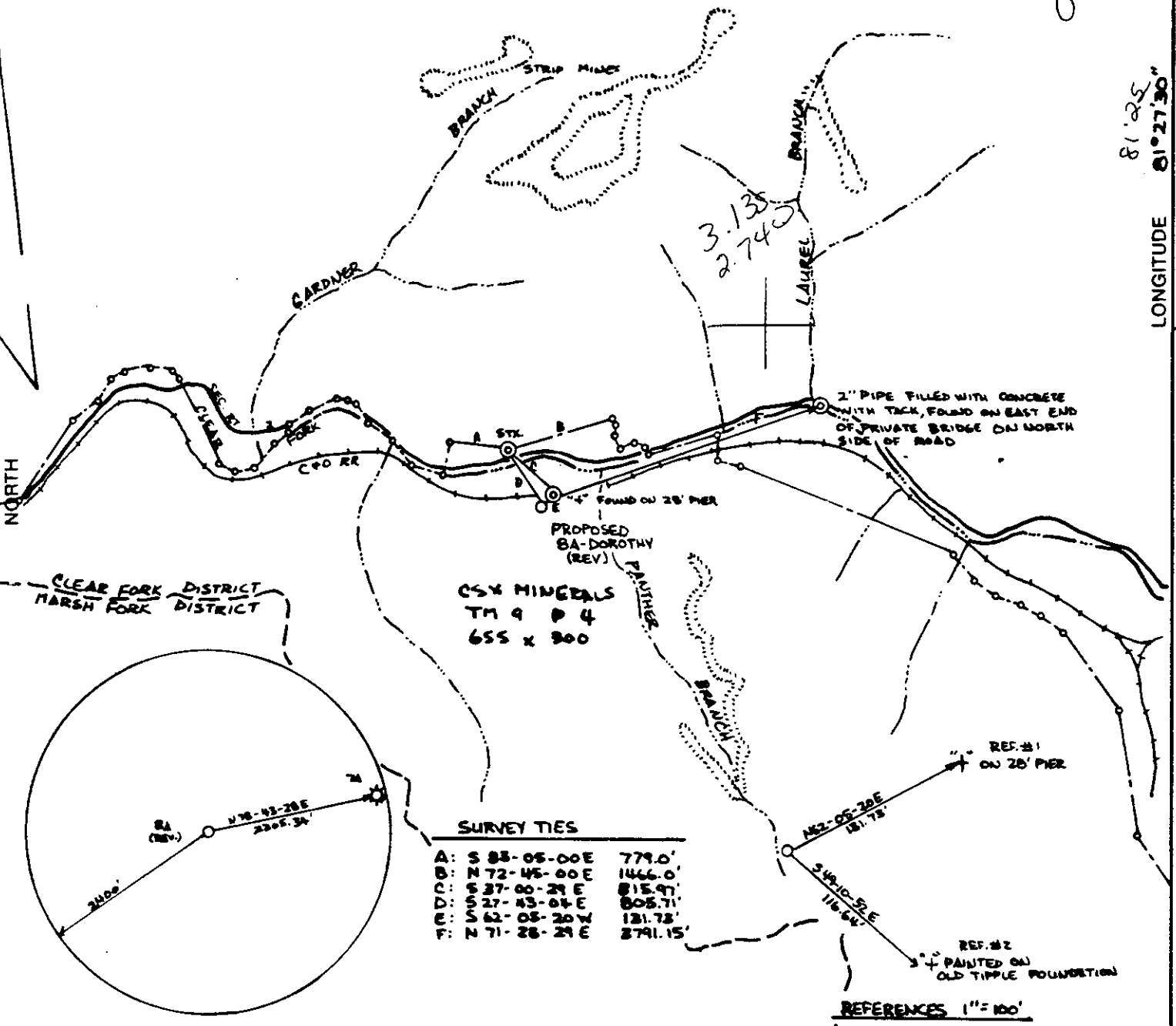
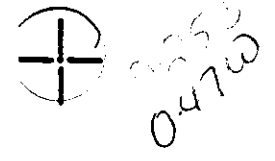


081 PMT: 710
 Digitized from OGIS 7.5' Mylar Plot
 QUAD: 325 DATE: 9-FEB-90
 LAT: 37 57.5 Miles South: 0.25
 LONG: 81 27.5 Miles West : 0.52

LATITUDE 37°57'30"



SURVEY TIES

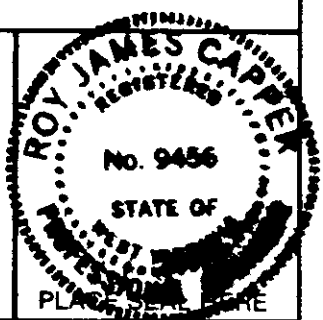
A:	S 85-05-00E	779.0'
B:	N 72-45-00E	1466.0'
C:	S 37-00-21 E	815.91'
D:	S 27-43-04 E	808.71'
E:	S 62-08-20 W	121.73'
F:	N 71-28-21 E	2791.15'

REFERENCES 1" = 100'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 85058
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 IN 5000
 PROVEN SOURCE OF ELEVATION BM ± 3300' NE OF LOCATION (984' MSL)

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 ENERGY.
 (SIGNED) Roy J. Capper
 R.P.E. 1456 I.L.S.



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 23 OCTOBER 19 85
 OPERATOR'S WELL NO. BA-DOROTHY
 API WELL NO. REVISED LOCATION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1001.2' WATERSHED CLEAR FORK
 DISTRICT CLEAR FORK COUNTY RALEIGH
 QUADRANGLE DOROTHY 7.5' 32.5 036 NW, Eccles

SURFACE OWNER CSX MINERALS, INC. ACREAGE 1352.33
 OIL & GAS ROYALTY OWNER CSX MINERALS, INC. LEASE ACREAGE 8218.47
 LEASE NO. 31/232

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 SHALES ESTIMATED DEPTH 4717
 WELL OPERATOR PEAKE OPERATING COMPANY DESIGNATED AGENT TIMOTHY K. WILCOX
 ADDRESS 423 CHARLESTON NATIONAL PLAZA ADDRESS 423 CHARLESTON NATIONAL PLAZA
CHARLESTON, WEST VIRGINIA 25301 CHARLESTON, WEST VIRGINIA 25301

COUNTY NAME
 PERMIT

FORM WW-6
 H.T. HALL 10/6/77



Date January 8, 1986
 Operator's Well No. 8-ADS
 Farm Dorothy-Sarita
 API No. 47 - 081 - 0710

State of West Virginia
 DEPARTMENT OF ENERGY
 Oil and Gas Division

WELL OPERATOR'S REPORT
 OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

RECEIVED
 DEPARTMENT OF ENERGY
 OIL AND GAS

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
 (If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1001 Watershed Clear Fork JAN 14 1986
 District: Clear Fork County Raleigh Quadrangle Dorothy 7 1/2

COMPANY Peake Operating Company
 ADDRESS 423 Charleston National Plaza
Charleston, WV 25301
 DESIGNATED AGENT Timothy K. Wilcox
 ADDRESS 423 Charleston National Plaza
Charleston, WV 25301
 SURFACE OWNER CSX Minerals, Inc.
 ADDRESS Box 2827, Huntington, WV 25727
 MINERAL RIGHTS OWNER CSX Minerals, Inc.
 ADDRESS Box 2827, Huntington, WV 25727
 OIL AND GAS INSPECTOR FOR THIS WORK
Rodney Dillon ADDRESS Sophia, WV
 PERMIT ISSUED October 28, 1985
 DRILLING COMMENCED October 29, 1985
 DRILLING COMPLETED November 6, 1985
 IF APPLICABLE: PLUGGING OF DRY HOLE ON
 CONTINUOUS PROGRESSION FROM DRILLING OR
 REWORKING. VERBAL PERMISSION OBTAINED
 ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cood.	30	30	2 sacks
13-10"			
9 5/8	568	568	210 sacks
8 5/8			
7	1292	1292	200 sacks
5 1/2			
4 1/2	4721	4721	275 sacks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 4754 feet
 Depth of completed well 4754 feet Rotary X / Cable Tools _____
 Water strata depth: Fresh 95 feet; Salt 325; 620 feet
 Coal seam depths: _____ Is coal being mined in the area? No

OPEN FLOW DATA
 Producing formation Gordon Pay zone depth ? feet
 Gas: Initial open flow .010 Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow Comingled Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure _____ psig (surface measurement) after _____ hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Devonian Shale Pay zone depth 4184 - 4634 feet
 Gas: Initial open flow S/G Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 987 Mcf/d Oil: Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 900 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

JAN 21 1986

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

Huron
 Devonian Shale perforated 4184 to 4634 w/35 holes, Nitrogen Frac: 1000 gal. acid; 1,700,000 SCFN₂; 10 perf balls; 70,000 SCFN₂/min. BDP 2750#, ATP 3000#, MTP 3470#.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Overburden			0	25	Water: 95' 5 GPM
Sandstone			25	748	325' 100 GPM
Sandy Shale			748	866	620' 1 GPM
Sandstone			866	962	Gas checks:
Sand & Shale			962	1315	1790 NSG
*Shale			1315	1844	1952 68/10 W 1" = 87 MCFD
*Big Lime			1844	2247	2250 NSG
*Sandy Shale			2247	2505	2470 NSG
*Shale			2505	2734	2775 4/10 W 1" = 21 M
*Coffee Shale			2734	2743	2929 2/10 W 1" = 15 M
*"Berea"			2743	2746	2989 2/10 W 1" = 15 M
*Sandy Shale			2746	2952	4261 3/10 W 1" = 18 M
*Gordon			2952	2966	4597 12/10 W 3/4" Orif. = 15.5 M
*Shale			2966	4294	TD 13/10 W 3/4" Orif. = 16.1 M
*Lower Huron			4294	4579	
*Shale			4579	TD	
TD				4754	Huron @ TD

*Marks E. Log Tops

(Attach separate sheets as necessary)

PEAKE OPERATING COMPANY
 Well Operator

By: _____
 Date: January 8, 1986

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."

RECEIVED
OCT 24 1985



1) Date: OCTOBER 24, 19 85
 2) Operator's # B-ADS REVISED
 Well No. _____
 3) API Well No. 47-081-0710
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1001.2 Watershed: CLEAR FORK
 District: CLEAR FORK 669 County: RALEIGH Quadrangle: DOROTHY 7.5
- 6) WELL OPERATOR PEAKE OPERATING CODE: 37100 7) DESIGNATED AGENT TIMOTHY K. WILCOX
 Address 423 CHAS. NAT'L PLAZA Address SAME
CHARLESTON WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name RODNEY DILLON
 Address SOPHIA WV
- 9) DRILLING CONTRACTOR: Name KEEN DRILLING CO
 Address KEEN MT. VA
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, DEVONIAN SHALE 40'
- 12) Estimated depth of completed well, 4717 feet
- 13) Approximate strata depths: Fresh, 50 feet; salt, 500 feet.
- 14) Approximate coal seam depths: NONE Is coal being mined in the area? Yes _____ / No X

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	16"	H-40	65#	X		30	30	CTS	Kinds	
Fresh water	12 3/4	H-40	46#	X		180	180	CTS		
Coal	9 5/8	H-40	32#	X		600	600	CTS	Sizes	
Intermediate	7	J-55	17#	X		1280	1280	150sks		
Production	4 1/2	J-55	9.5#	X		4680	4680	300sks	Depths set	
Tubing										
Liners									Perforations:	
									Top Bottom	

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-081-0710 Date October 28 19 85

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 October 28, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <input checked="" type="checkbox"/>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
				<u>4964</u>	<u>MX</u>	<u>MX</u>	

[Signature]
 Director, Division of Oil and Gas

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