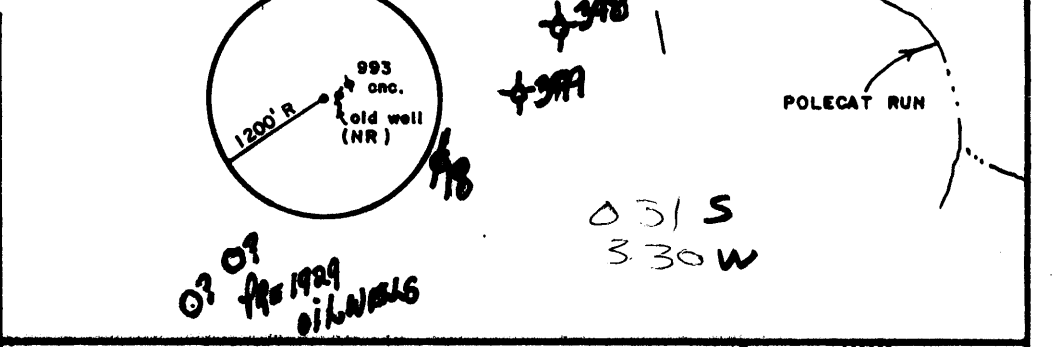
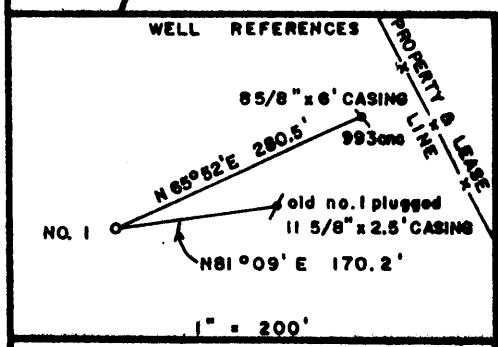
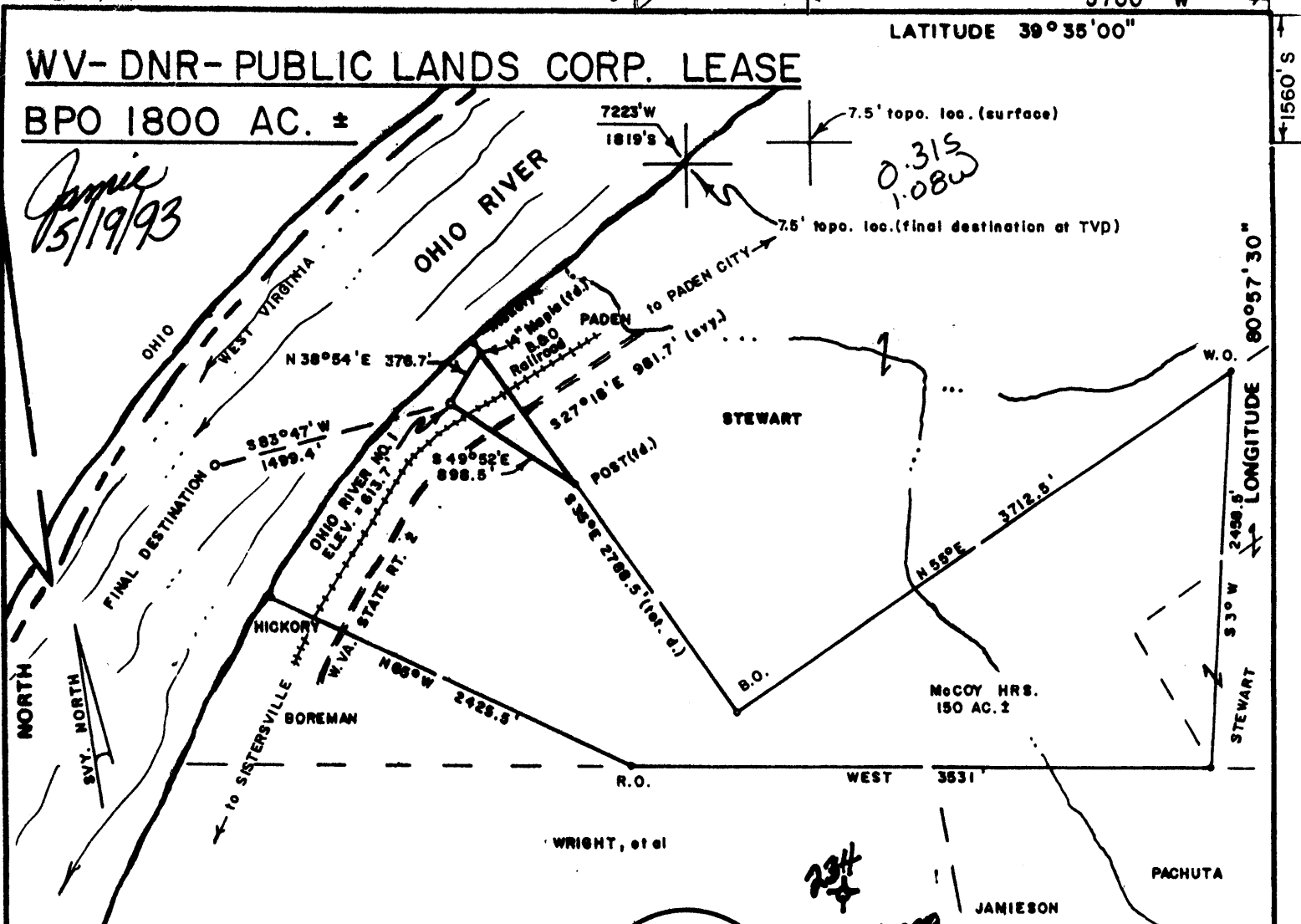


**WV-DNR-PUBLIC LANDS CORP. LEASE**

**BPO 1800 AC. ±**

*Janice  
5/19/93*



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS NW OF LOC. ELEV. = 649'  
 TOP OF KNOB S OF LOC. ELEV. = 1066'

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) Mark C. Echard  
 MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490



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

DATE NOVEMBER 30, 1992  
 OPERATOR'S WELL NO. OHIO RIVER NO. 1  
 API WELL NO. 47-095-1534  
 STATE WEST VIRGINIA COUNTY TYLER PERMIT \_\_\_\_\_



**STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION**

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 613.7' WATERSHED OHIO RIVER  
 DISTRICT LINCOLN 3 COUNTY TYLER  
 QUADRANGLE: PADEN CITY 7.5' N. Mt Asvl SW  
 SURFACE OWNER HENRY E. MCGOY (AGENT) ACREAGE 150 ±  
 OIL & GAS ROYALTY OWNER WV-DNR-PUBLIC LANDS CORP. LEASE ACREAGE BPO 1800 AC. ±  
 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 BIG INJUN SANDSTONE ESTIMATED DEPTH 2200' TVD *Directional Well*  
 WELL OPERATOR KARLTON TERRY OIL CO. DESIGNATED AGENT DONALD C. KESTERSON  
 ADDRESS 1380 LAWRENCE ST., SUITE 1280 ADDRESS P.O. BOX 2036  
DENVER, CO. 80204 PARKERSBURG, W.V. 26102

RECEIVED  
 WV Division of  
 Environmental Protection  
 NOV 16 93  
 Permitting  
 Office of Oil & Gas

19-May-93  
 API # 47- 95-01534

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Directional  
 well

Well Operator's Report of Well Work

Farm name: McCOY, HENRY E. Operator Well No.: OHIO RIVER #1

LOCATION: Elevation: 613.70 Quadrangle: PADEN CITY

District: LINCOLN County: TYLER  
 Latitude: 1560 Feet South of 39 Deg. 35Min. Sec.  
 Longitude 5700 Feet West of 80 Deg. 57 Min. 30 Sec.

Company: TERRY, KARLTON OIL COMPAN  
 1380 LAWRENCE, SUITE 1290  
 DENVER, CO 80204-0000

Agent: DONALD C. KESTERSON

Inspector: MIKE UNDERWOOD  
 Permit Issued: 05/19/93  
 Well work Commenced: 05/25/93  
 Well work Completed: 09/30/93  
 Verbal Plugging  
 Permission granted on:  
 Rotary XXX Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 2412 MD  
 Fresh water depths (ft) 34', 84'

Salt water depths (ft) 766', 1400' tvd

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): na

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft. to surface
13"	20'	20'	to surface
9 5/8"	206'	206'	to surface 50 sks
7"	950'	950'	55 sks
4 1/2"	2406'	2406'	61 sks

OPEN FLOW DATA

Producing formation Greenbrier & Pocono Sd Pay zone depth (ft) MD 2081-2304 1383-1542  
 Gas: Initial open flow 36 MCF/d Oil: Initial open flow show Bbl/d  
 Final open flow 400 MCF/d Final open flow show Bbl/d  
 Time of open flow between initial and final tests 12 Hours  
 Static rock Pressure 18 psig (surface pressure) after 1 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLS.

For: TERRY, KARLTON OIL COMPANY

Reviewed TMG  
 Recorded \_\_\_\_\_

By: \_\_\_\_\_  
 Date: 9-11-93

GEOLOGICAL WELL RECORD DATA

WELL NAME: Ohio River #1  
 PERMIT NUMBER: 47- 95-01534

all sub surface figures expressed in True Vertical Depth

FORMATION	TOP	BOTTOM	COMMENTS & NOTES
Soil	0	10	
Sub-soil	10	34	water
sandstone	34	57	
grey shale	57	84	water
sandstone	84	92	
grey shale	92	112	
sandstone	112	150	
red shale	150	169	
Little Cow Run	169	217	
grey shale	217	250	
grey-green shale	250	280	
red shale	280	295	
grey shale	295	312	
red shale	312	356	
grey shale	356	440	
Big Cow Run	440	452	show gas
grey shale	452	627	
Big Dunkard	627	640	
shale	640	656	
1st Salt Sand	656	670	
shale	670	682	
1st Salt Sand	682	744	
shale	744	766	show gas & water
1st Salt Sand	766	788	
shale	788	814	
2nd Salt Sand	814	856	
shale	856	908	
3rd Salt Sand	908	946	show gas
shale	946	972	
3rd Salt Sand	972	1000	show gas & oil
shale	1000	1184	
Maxon Sand	1184	1212	
shale	1212	1290	
Greenbrier Lime	1290	1362	
shale	1362	1383	
Greenbrier Sand	1383	1484	show gas, oil, water
Pocono Sand	1484	1542	show gas
sandy-shale	1542	1556	

total depth

↳ measured depth = 2412  
 17155

17155

FORM WW-2B

Environmental  
 MAY 03 93  
 Permitting  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

Directional well  
 095-1534  
 Issued 05/19/93  
 Expires 05/19/95  
 Page of

- 1) Well Operator: Karlton Terry Oil Company 49005 (3) 527
- 2) Operator's Well Number: Ohio River #1 3) Elevation: 613.7
- 4) Well type: (a) Oil XX / or Gas    /  
 (b) If Gas: Production    / Underground Storage    /  
 Deep    / Shallow    /
- 5) Proposed Target Formation(s): Big Injun Sandstone  
 Measured
- 6) Proposed Total Depth: 3000 feet 2100 tvd
- 7) Approximate fresh water strata depths: 15, 60, 75
- 8) Approximate salt water depths: 900, 1200, 1400 OK
- 9) Approximate coal seam depths: NA
- 10) Does land contain coal seams tributary to active mine? Yes    / No XX /
- 11) Proposed Well Work: Drill vertically to 450', KOP begin rate of build at 8/100, EOB @ 1202', finish hole @ 60degrees through Big Injun
- 12) under the Ohio River

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	9 5/8"	J-55	36#	200	200	OK MU 70 surface
Fresh Water	<i>Surface hole to be drilled on fluid.</i>					3858/11.3
Coal						3858/11.22
Intermediate						
Production	5 1/2"	J-55	15.5#		3000	200 cu ft
Tubing						3858/11.1
Liners						

PACKERS : Kind NA  
 Sizes     
 Depths set   

**For Division of Oil and Gas Use Only**

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Single sum \$5000.00  Agent

3050  
 3051  
 8

Permit No. 11111

Permitting  
Office of Oil & Gas  
MAY 03 93

- 1) Date: February 3, 1993
- 2) Operator's well number  
Ohio River #1
- 3) API Well No: 47 - 095 - 1534  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
  - (a) Name Henry E. McCoy  
Address Rt 2, Box 136E
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name N/A  
Address \_\_\_\_\_
  - (b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Mike Underwood  
Address Route 2, Box 135  
Salem, WV 26426  
Telephone (304)- 782-1043

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

xxx Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR \_\_\_\_\_ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_\_\_ on the above named parties, by:  
\_\_\_\_\_ Personal Service (Affidavit attached)  
xxx Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.  
Well Operator Kariton Terry Oil Company  
By: \_\_\_\_\_  
Its: President  
Address 1380 Lawrence St. Suite 1290  
Denver, CO 80204  
Telephone (303) 592-1226

Subscribed and sworn before me this 28<sup>th</sup> day of April, 1993

Jim Holly  
Notary Public  
My commission expires 02/22/95

