

Janie 6/3/89

Latitude 39° 25'

39° 22' 30"

7.5

80° 47' 30"

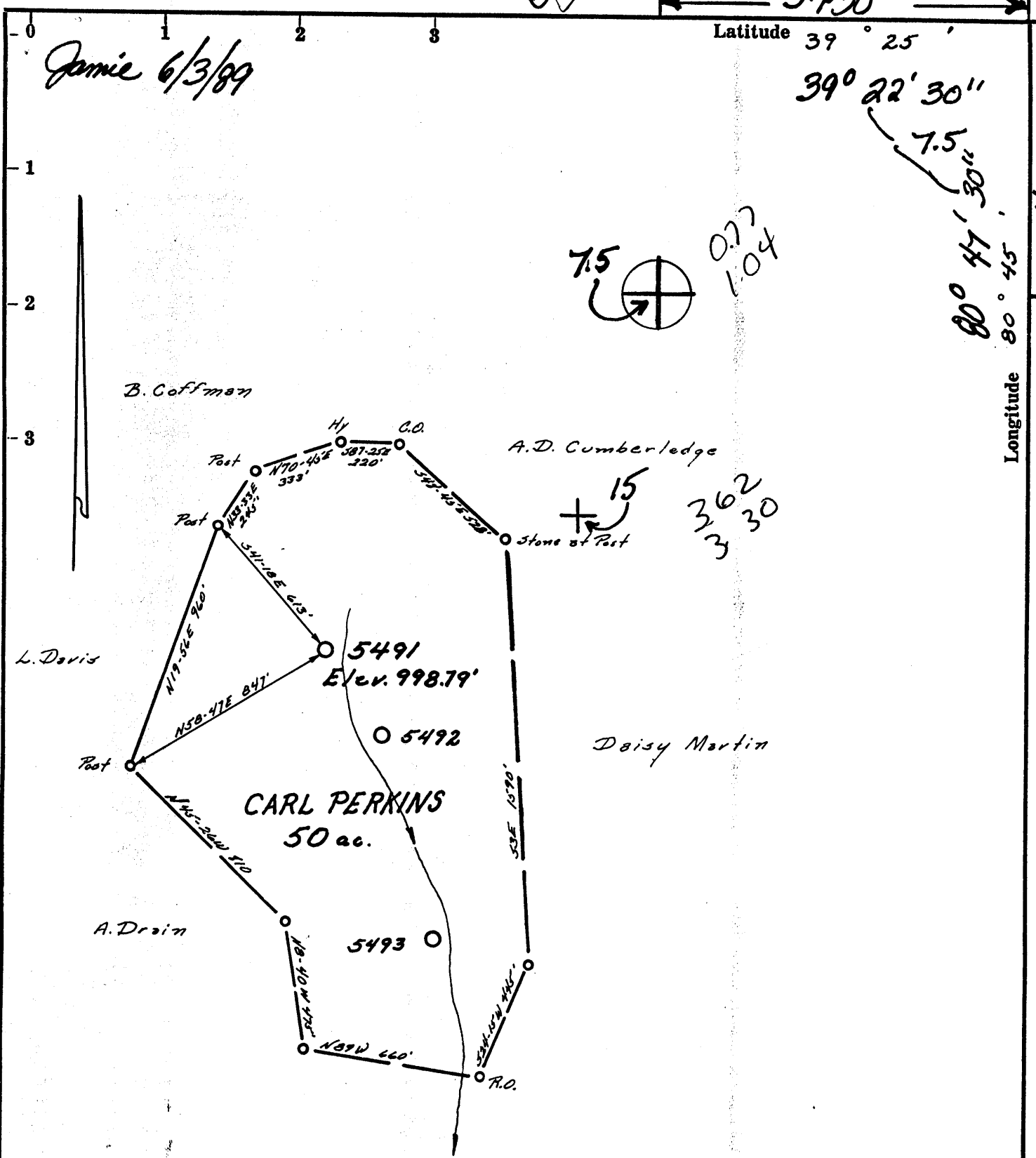
Longitude 80° 45'

4070



0.77  
1.04

15  
362  
30



Re work 13

- Fracture...
- Redrill...
- New Location...
- Drill Deeper...
- Abandonment...

Source of Elevation B.M. 834' Bridge at Camp Mistake

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Minimum accuracy, one part in 200

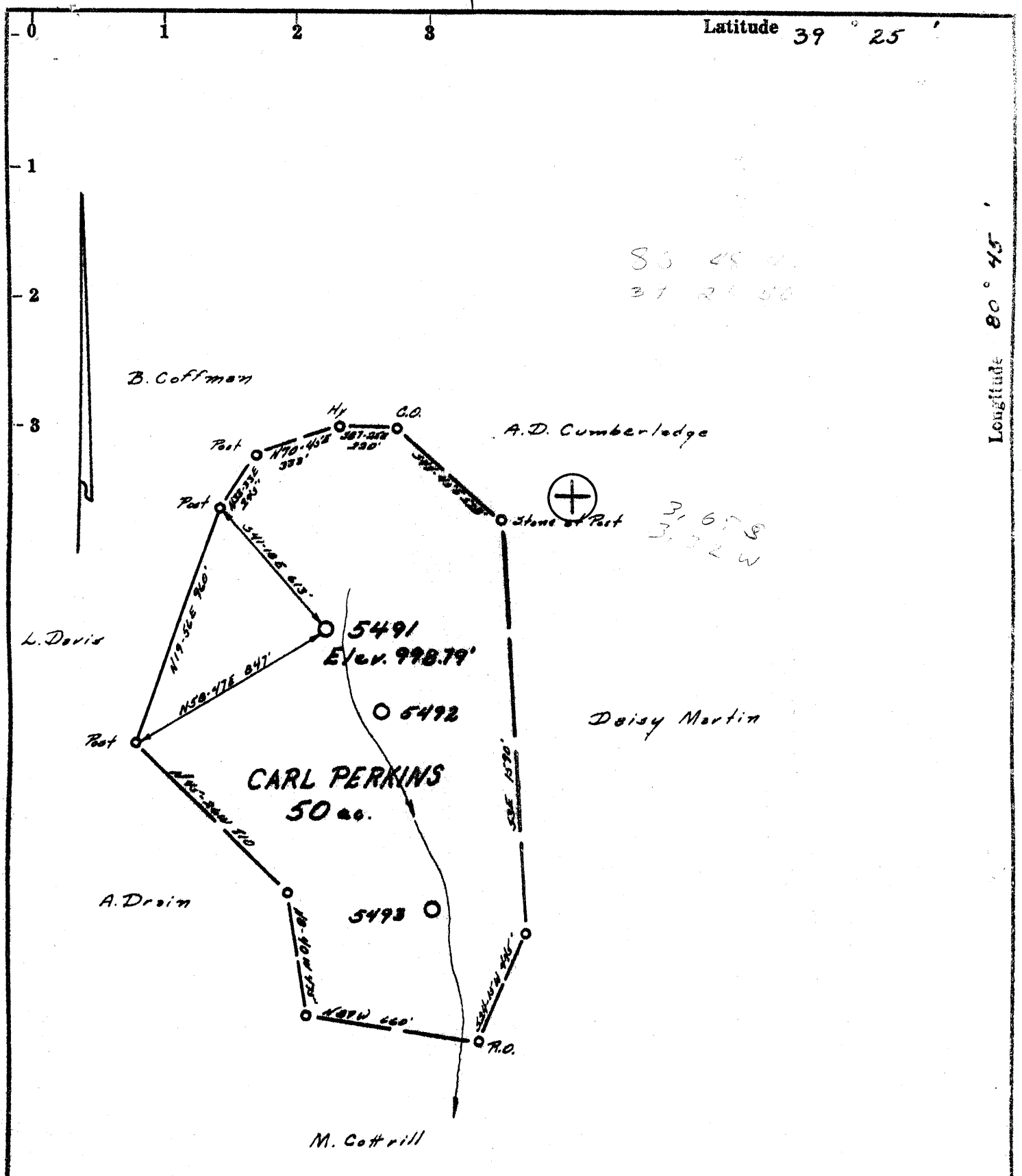
Company: Equitana Inc. 4468  
 Address: 4955 STRUBENVILLE PIKE, Pittsburgh, Pa.  
 Farm: CARL PERKINS  
 Tract \_\_\_\_\_ Acres 50 Lease No. 26218  
 Well (Farm) No. 1 Serial No. 5491  
 Elevation (Spirit Level) 998.79'  
 Quadrangle WEST UNION SE 24 15/97.5  
 County TYLER District M<sup>c</sup>ELROY 5  
 Engineer R. J. McWilliam  
 Engineer's Registration No. 105 L.L.S.  
 File No. 222/148 Drawing No. \_\_\_\_\_  
 Date 8-27-73 Scale 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 15205 OIL AND GAS DIVISION  
 CHARLESTON

WELL LOCATION MAP  
 FILE NO. Ty 1-469-Red  
 JUN 16 1989

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

47-095



- Fracture....
- Redrill.....
- New Location.
- Drill Deeper.....
- Abandonment.....

Source of Elevation B.M. 834 Bridge at Camp Mistake  
 I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.  
 Minimum accuracy, one part in 200

Company <u>EQUITABLE GAS CO. W.VA. DIV.</u>	
Address <u>PITTSBURGH, PA. 15219</u>	
Farm <u>CARL PERKINS</u>	
Tract	Acres <u>50</u> Lease No. <u>26210</u>
Well (Farm) No. <u>1</u>	Serial No. <u>5491</u>
Elevation (Spirit Level) <u>998.79'</u>	
Quadrangle <u>WEST UNION 2<sup>d</sup> EC</u>	
County <u>TYLER</u>	District <u>M<sup>o</sup> ELROY</u>
Engineer <u>P. J. McElroy</u>	
Engineer's Registration No. <u>105 L.L.S.</u>	
File No. <u>222/148</u>	Drawing No. _____
Date <u>8-27-73</u>	Scale <u>1" = 500'</u>

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

WELL LOCATION MAP  
 FILE NO. Ty1-469-Red

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

47-095



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary XX Oil \_\_\_\_\_  
API # 47- 95-00469 W

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JAN 11 1990

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY Well Operator's Report of Well Work

Farm name: PERKINS, CARL Operator Well No.: 5491

LOCATION: Elevation: 998.79 Quadrangle:

District: MCELROY County: TYLER  
Latitude: Feet South of Deg. Min. Sec.  
Longitude: Feet West of Deg. Min. Sec.

Company: EQUITRANS, INC.  
4955 STEUBENVILLE PIKE  
PITTSBURGH, PA 15205-4955

Agent: GARY A. HOY, DIVISION MGR.

Inspector: GLEN P. ROBINSON  
Permit Issued: 06/08/89  
Well work Commenced: 06/28/89  
Well work Completed: 09/27/89  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 2076'  
Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13"	35'	35'	To Surface
8 5/8"	913	913	To Surface
5 1/2"	1912'	1912'	80 Sx
3 1/2"	2064'	2064'	83 Sx

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth (ft) 1944  
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

Second producing formation Big Injun Pay zone depth (ft) 2006  
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 WELLBORE.

For: EQUITRANS, INC.  
By: [Signature] PRESIDENT  
Date: \_\_\_\_\_

JAN 16 1990

095-469 W

FORMATION	TOP FEET	BOTTOM FEET	REMARKS
Pittsburgh Coal	615	620	
B. Dunkard Sand	1099	1112	
Gas Sand	1142	1152	
Gas Sand	1362	1660	
Maxton	1718	1732	
Little Lime	1816	1834	
Big Lime	1858	1913	
Big Injun	1918	2046	
TD:		2076	Perforated Interval: 1944' to 1959 and 2006' to 2014'

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JAN 11 1990

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

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

- 1) Well Operator: Equitrans, Inc. 16160 S, 670
- 2) Operator's Well Number: 5491 3) Elevation: 1015.15
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Big Injun
- 6) Proposed Total Depth: 2076 feet
- 7) Approximate fresh water strata depths: \_\_\_\_\_
- 8) Approximate salt water depths: \_\_\_\_\_
- 9) Approximate coal seam depths: \_\_\_\_\_
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Redrill approximately 150' of cemented well bore and cement approximately 2076' of 3-1/2" tubing.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	13"	Existing		35'	35'	20SKS Surface
Fresh Water						
Coal	8-5/8"	Existing		913'	913'	445 Sacks to surface
Intermediate	8-1/4"	Existing		928' - 1139'	928' - 1139'	Ball casing
	7"	Existing		1843' - 1866'	1843' - 1866'	
Production	5-1/2"	Existing		1912'	1912'	Hook and packer
Tubing	3 1/2"			2076'	2076'	38CSRB-11.1
Liners						

PACKERS : Kind HW  
Sizes .7 x 5  
Depths set 1912

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MAY 22 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond 50 Blanket sure  Agent  
(Type)

0766

8050

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MAY 22 1989

Page 1 of 2  
Form WW2-A  
(09/87)  
File Copy

1) Date: \_\_\_\_\_  
DIVISION OF OIL & GAS Operator's well number  
DEPARTMENT OF ENERGY 5491  
3) API Well No: 47 - 095 - 0469 - Revised  
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 Carl D. Perkins  
Address Rt. 3  
Pennsboro, WV 26415
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name Carl D. Perkins  
Address Rt. 3  
Pennsboro, WV 26415
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Glen P. Robinson  
Address Rt. 1, #6 Mt. Pleasant East  
Mineralwells, WV 26150  
Telephone (304)- 489-9162
- (c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
X 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)
- X 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 Equitrans, Inc.  
By: [Signature]  
Its: President  
Address 4955 Steubenville Pike  
Pittsburgh, PA 15205  
Telephone (412) 788-6066

Subscribed and sworn before me this 28th day of June, 1987

My commission expires \_\_\_\_\_

NOTARY PUBLIC  
ARLENE M. CUBAKOVIC, NOTARY PUBLIC  
ROBINSON TWP., ALLEGHENY COUNTY  
MY COMMISSION EXPIRES SEPT. 7, 1992

Member, Pennsylvania Association of Notaries



RECEIVED

JAN 14 1974

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE Jan. 8, 1974

Surface Owner Carl D. Perkins

Company Equitable Gas

Address Rt. 3, Pennsboro, W. Va. 26415

Address Pittsburgh, Pa. 15219

Mineral Owner Same as surface

Farm Carl D. Perkins Acres 50

Address \_\_\_\_\_

Location (waters) Camp Mistake Run middle

Coal Owner Same as surface

Well No. 5491 Elevation 999.79

Address \_\_\_\_\_

District McElroy County Tyler

Coal Operator \_\_\_\_\_

Quadrangle West Union SE 2.1

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for redrilling. This permit shall expire if operations have not commenced by 5-15-74

[Signature]  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Mr. Paul Smirchick  
W. Va. 26178 PH: 477-2455

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

West Virginia Geological and Economic Survey  
P. O. Box 879  
Morgantown, W. Va. 26505  
AC 304-296-4461

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated Aug. 2 1973 by Carl D. Perkins made to Equitable Gas Co. and recorded on the 23rd day of Aug. 1973, in Tyler County, Book 198 Page 396

NEW WELL DRILL DEEPER XX REDRILL FRACTURE OR STIMULATE  
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours, S. M. Linger  
(Sign Name) Equitable Gas Co.  
Well Operator

Address of Well Operator 420 Blvd. of the Allies Street  
Pittsburgh City or Town  
Pa. 15219 State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOOK

Jyl-409-Red PERMIT NUMBER  
47-095

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X Re DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME H. E. Gardner, Div. Supt.  
 ADDRESS \_\_\_\_\_ ADDRESS Box 1550, Clarksburg, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304)624-6576  
 ESTIMATED DEPTH OF COMPLETED WELL: 1980 ROTARY XX CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Big Injun  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE XX DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7	1886	1886	Cem. to surface
5 1/2	1950	1950	
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 100 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS No mineable coal \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
 For Coal Company

\_\_\_\_\_  
 Official Title