



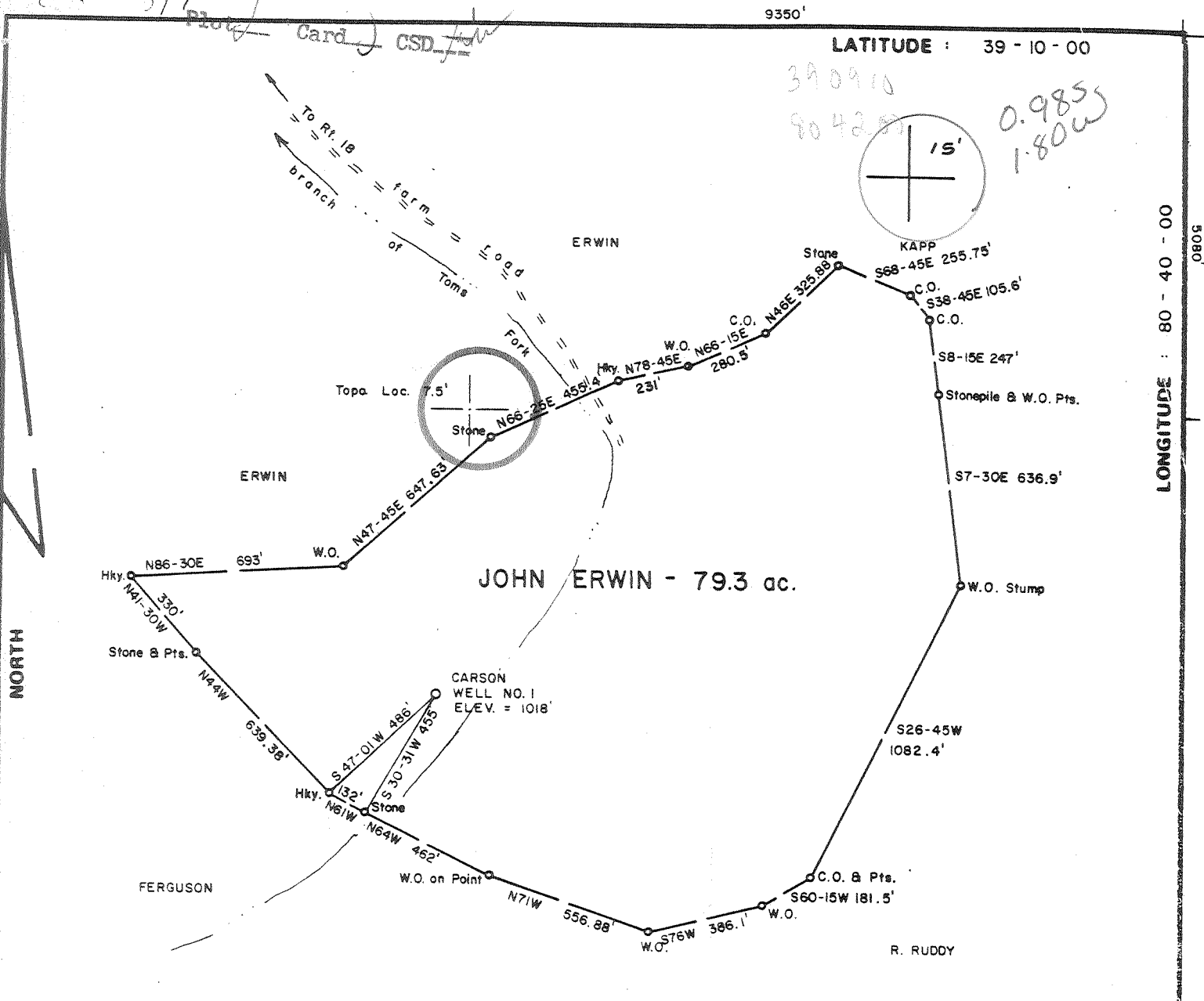
9350'

LATITUDE : 39 - 10 - 00

39 09 10

90 42 57

0.985  
1.80W



LONGITUDE : 80 - 40 - 00

NORTH

JOHN ERWIN - 79.3 ac.

Surface & 1/2 Oil & Gas:  
 John F. Erwin, Rt. 1, New Milton, W.V. 26411  
 1/2 Oil & Gas:  
 Alma Hinter, 301 Church St., West Union, W.V. 26456

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1 inch = 500'  
 MINIMUM DEGREE OF  
 ACCURACY 1/200  
 PROVEN SOURCE OF  
 ELEVATION Junction of Roads NW  
of Location Elev. = 929'

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF MINES. *Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490

PLACE SEAL HERE

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



DATE JULY 17, 1981  
 OPERATOR'S WELL NO. ONE  
 API WELL-NO. \_\_\_\_\_  
47 - 017 - 3036  
 STATE COUNTY 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 1018' WATERSHED TOMS FORK  
 DISTRICT NEW MILTON COUNTY ODDRIDGE  
 QUADRANGLE NEW MILTON 7.5' *Quad 15-1 WC*  
 SURFACE OWNER JOHN ERWIN ACREAGE 79.3  
 OIL & GAS ROYALTY OWNER JOHN ERWIN, et al LEASE ACREAGE 79.3  
 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 GANTZ ESTIMATED DEPTH 2900'  
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. LOWELL M. JOHNSON  
 ADDRESS BOX 133 ADDRESS BOX 133  
SAND FORK, WV 26430 SAND FORK, WV 26430

AUG 27 1981

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

Date September 17, 1981

FORM IV-35  
(Obverse)

Operator's  
Well No. Erwin #1

[08-78]

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

API Well No. 47 - 017 - 3036  
State County Permit

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

LOCATION: Elevation: 1018' Watershed: Toms Fork  
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation DESIGNATED AGENT Lowell M. Johnson  
Address P O Box 133 Address P O Box 133  
Sand Fork, WV 26430 Sand Fork, WV 26430

PERMITTED WORK: Drill X / Convert \_\_\_ / Drill deeper \_\_\_ / Redrill \_\_\_ / Fracture or stimulate \_\_\_  
Plug off old formation \_\_\_ / Perforate new formation \_\_\_ /  
Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON August 7, 1981, 19 81

OIL & GAS INSPECTOR FOR THIS WORK:  
Name Steve Casey  
Address Jane Lew, WV  
884-7470

(IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2214 feet  
Depth of completed well, 2651 feet Rotary X / Cable Tools \_\_\_  
Water strata depth: Fresh, 1544 feet; salt, N/A feet.  
Coal seam depths: N/A Is coal being mined in the area? No  
Work was commenced August 17, 19 81, and completed August 24, 19 81

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		
Conductor								Kinds
Fresh water	8 5/8"					908'	908'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2"						2301'	100 sacks
Tubing								Depths set
Liners								Perforations:
								Top Bottom

RECEIVED  
SEP 21 1981

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

189 MCF

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 2210-2214 feet  
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 measurement) after \_\_\_ hours shut in

[If applicable due to multiple completion--]

Second producing formation Blue Monday Pay zone depth 2096-2102' feet  
Gas: Initial open flow, \_\_\_ Mcf/d Oil: Initial open flow, \_\_\_ Bbl/d  
Combined Final open flow, 189,000 Mcf/d Final open flow, \_\_\_ Bbl/d  
Time of open flow between initial and final tests, 4 hours  
Static rock pressure, 735 psig (surface measurement) after 48 hours shut in

OCT 08 1981

[08-78]

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

Fractured: September 9, 1981

Big Injun - 5,000 lb. 80/100 sand  
30,000 lb. 20/40 sand  
505 bbls water  
2900 lb. breakdown  
29.5 BPM at 2720 lb.

Perforations - 2210 - 2214, 6 shots  
2198 - 2202, 6 shots

Blue Monday - Was not treated,  
Did not break down.

Perforations - 2096 - 2102, 8-shots

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks
					Including indication of all fresh and salt water, coal, oil and gas
Sand			0	27	
Red Rock			27	50	
Slate and Sand			50	210	
Red Rock and Slate			210	732	
Sand and Slate			732	810	
Red Rock and Shale			810	950	
Slate and Sand			950	1935	
Red Rock			1935	1975	
Slate			1975	2015	
Red Rock			2015	2050	
Little Lime			2050	2063	
Pencil Cave			2063	2074	
Blue Monday			2074	2104	
Big Lime			2104	2154	
Big Injun			2154	2249	
Slate			2249	2290	
Shale			2290	2368	
Slate			2368	2382	
Shale			2382	2466	
Slate			2466	2488	
Shale			2488	2526	
Gantz			2526	2544	
Slate			2544	2651	
T.D.			2651		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation

Well Operator

By

*Lawell M. Johnson*

Its

Agent

**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."



FORM 10-2  
(Obverse)  
(03-78)

Date \_\_\_\_\_  
Operator's Well No. Etwin #1  
API Well No. 45 - 017 - 3036  
State \_\_\_\_\_ County \_\_\_\_\_ Permit \_\_\_\_\_

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

OIL AND GAS WELL PERMIT

WELL TYPE: Oil \_\_\_\_\_ / Gas X /  
(If "Gas", Production X / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow X /)

LOCATION: Elevation: 1018' Watershed: Toms Fork  
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation DESIGNATED AGENT Lowell M. Johnson  
Address P O Box 153 Address P O Box 135  
Sand Fork, WV 26430 Sand Fork, WV 26430

OIL & GAS ROYALTY OWNER John Erwin  
Address Rt. 1 Box 74  
New Milton, WV 26411

COAL OPERATOR John Erwin  
Address \_\_\_\_\_

Acresage \_\_\_\_\_  
SURFACE OWNER John Erwin  
Address Rt. 1 Box 74  
New Milton, WV 26411  
Acresage Same

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name N/A  
Address \_\_\_\_\_  
Name N/A AUG - 7 1981  
Address \_\_\_\_\_

FIELD SALE (IF MADE) TO:  
Address N/A

COAL LESSEE WITH DECLARATION ON RECORD:  
Name N/A  
Address \_\_\_\_\_

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Steve Casey  
Address Jane Lew, WV  
884-7470

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed \_\_\_\_\_ lease \_\_\_\_\_  
other contract \_\_\_\_\_ / dated \_\_\_\_\_, 19\_\_\_\_\_, to the undersigned well operator from \_\_\_\_\_

(If said deed, lease, or other contract has been recorded):  
Recorded on \_\_\_\_\_, 19\_\_\_\_\_, in the office of the Clerk of the County Commission of Doddridge County, West  
Virginia in \_\_\_\_\_ Book \_\_\_\_\_ at page \_\_\_\_\_. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_ /  
Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
Other physical change in well (specify) N/A  
\_\_\_\_\_ planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to  
make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the  
Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to  
the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to  
the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY  
TO:  
WEST VIRGINIA OIL AND GAS  
CONSERVATION COMMISSION  
1615 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 40-1091

BLANKET BOND

Carson Petroleum Corporation  
Well Operator  
By \_\_\_\_\_  
Its Agent

PROPOSED MINE ORDER

THIS IS AN ESTIMATE ONLY.

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.

Address Drawer 40

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Devonian ~~Shale~~ *Gautz*

Estimated depth of completed well, 2900 feet Rotary X / Cable tools \_\_\_\_\_ /

Approximate water strata depths: Fresh, 92 feet; salt, N/A feet.

Approximate coal seam depths: N/A Is coal being mined in the area? Yes \_\_\_\_\_ / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New	Used	FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft			For drilling	Left in well		
Conductor									Kinds
Fresh Water	8 5/8"					192'	192'	To surface	
Coal									Sizes
Intermediate									
Production	4 1/2"						2900'	<del>290</del> 750 sacks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 drilling. This permit shall expire if operations have not commenced by 4-12-82.

*J. E. Haggley*  
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator \_\_\_\_\_ / owner \_\_\_\_\_ / lessee \_\_\_\_\_ of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date \_\_\_\_\_, 19 \_\_\_\_\_

By \_\_\_\_\_  
It \_\_\_\_\_

*J. E. Haggley*