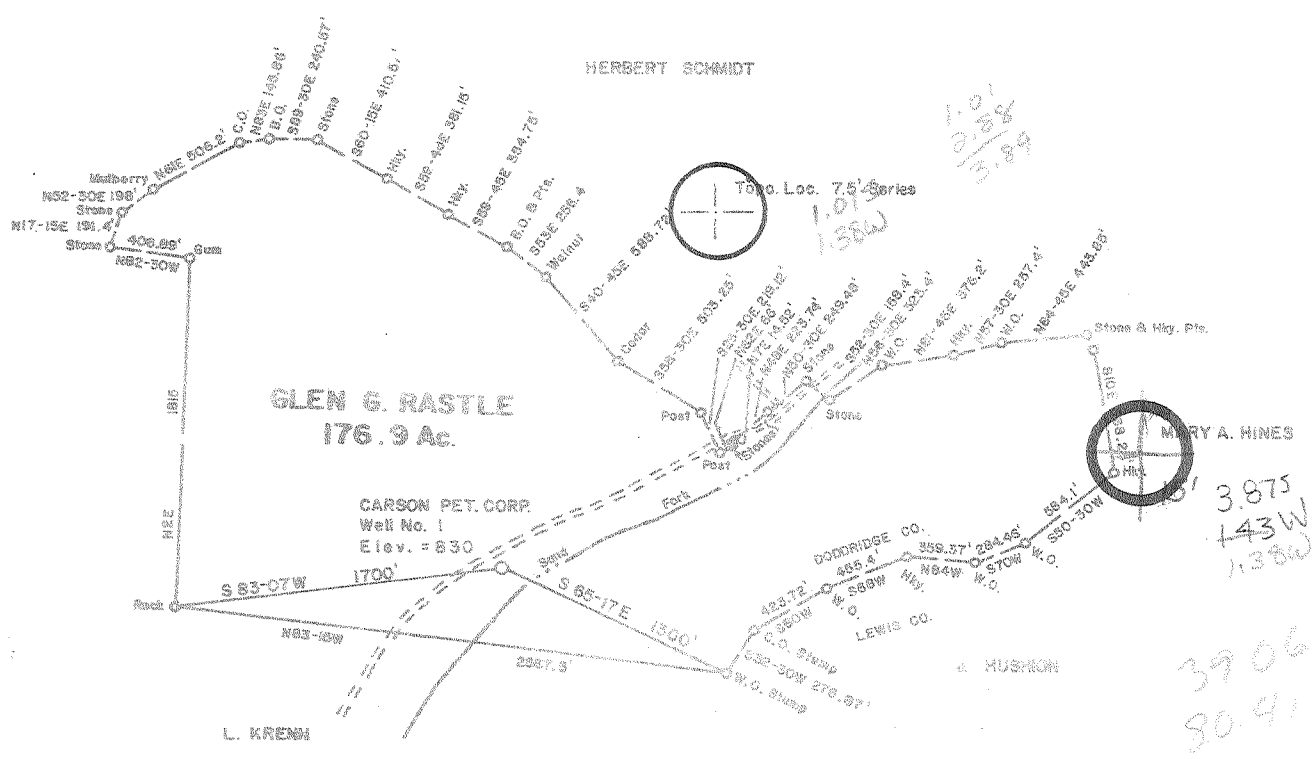


40 10-30-80

LATITUDE: 39-07-30
(15') 39°10'

LONGITUDE: 80-40-00

NORTH



Surface, Oil, & Gas: Glen G. & Nina M. Rastle, Vadis, W.V. 26445
 Coal: Eastern Associated Coal Corp., Koopers Bldg. Pittsburgh, Pa.

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Junction of Roads 1800' NE of Location = 847'

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. *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 AUGUST 26, 1980
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47 - 017 - 2861
 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 830' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 7.5 & 15' WC
 SURFACE OWNER GLEN G. & NINA M. RASTLE ACREAGE 176.9
 OIL & GAS ROYALTY OWNER GLEN G. & NINA M. RASTLE LEASE ACREAGE 176.9
 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 BENSON ESTIMATED DEPTH 5400' *6-6 Murphy Creek (150)*
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. CLAY JOHNSON *New Milton South (307)*
 ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS BOX 133 SAND FORK, W.V. 26430

NOV 17 1980

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

Date February 24, 1981

FORM IV-35
(Obverse)

Operator's
Well No. Rastle #1

[08-78]

WELL OPERATOR'S REPORT /7
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 017 - 2861
State County Permit

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

LOCATION: Elevation: 830' Watershed: Sand Fork
District: Cove 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 / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON October 29 19 80

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

GEOLOGICAL TARGET FORMATION: Elk Depth 5030 feet

Depth of completed well, 5277 feet Rotary / Cable Tools

Water strata depth: Fresh, 75 feet; salt, _____ feet.

Coal seam depths: None Is coal being mined in the area? No

Work was commenced December 29, 19 80, and completed January 1, 19 81

LOGGING AND TUBING PROGRAM

LOGGING 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					1052'	1052'	To surface
Intermediate								Sizes
Production	4 1/2						5080	320 sks
Tubing								Depths set
Packers								Perforations:
								Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4651 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d

Final open flow, _____ Mcf/d Final open flow, 0 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 Elk Pay zone depth 4918 - 5030 feet

Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d

Final open flow, 400,000 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 18 hours

Static rock pressure, 1400 psig (surface measurement) after 24 hours shut in

MAR 23 1981

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

Fractured January 21, 1981

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1600 lb. breakdown
490 bbls. water
22.2 BPM at 2000 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
485 bbls. water
17 BPM at 1800 lb.

Perforations - 4918 - 5030, 8 holes

Perforations - 4649 - 4651, 6 holes

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 & Shale			13	157	Water @ 17', 75'
Coal			157	162	
Sand & Shale			162	337	
Coal			337	340	
Sand & Shale			340	1184	
1st Salt Sand			1184	1248	
Shale			1248	1274	
Sand			1274	1288	
Shale			1288	1359	
2nd Salt Sand			1359	1379	
Shale			1379	1431	
2nd Salt Sand			1431	1496	
Shale			1496	1554	
3rd Salt Sand			1554	1604	
Shale			1604	1625	
3rd Salt Sand			1625	1654	
Shale			1654	1697	
Maxton Sand			1697	1724	
Shale			1724	1736	
Little Lime			1736	1751	
Pencil Cave			1751	1769	
Blue Monday Sand			1769	1804	
Big Lime			1804	1876	
Big Injun Sand			1876	1952	
Gray Shale			1952	1989	
Weir Sand			1989	2081	
Gray Shale			2081	2198	
Gantz Sand			2198	2216	
Gray Shale			2216	4646	Gas at 3014, 4012, 4542, 4820
Benson Sand			4646	4658	
Gray Shale			4658	4914	
Elk Sand			4914	5036	
Gray Shale			5036	5134	
Total Depth			5134		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation
Well Operator

By Lowell 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."

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. Rastle #1

API Well No. 47 - 017 - 2861
State County Permit

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

LOCATION: Elevation: 830' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Carson Petroleum Corporation
Address P O Box 133
Sand Fork, WV 26430

DESIGNATED AGENT Clay Johnson
Address P O Box 133
Sand Fork, WV 26430

OIL & GAS
ROYALTY OWNER Glen G. & Nina M. Rastle
Address Vadis, WV 26445

COAL OPERATOR N/A
Address _____

Acreage 176.9

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Glen G. & Nina M. Rastle
Address Vadis, WV 26445

Name N/A

Acreage 176.9

Name N/A

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

Address _____

Address _____

COAL LESSEE WITH DECLARATION ON RECORD:

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett

Name N/A

Address Clarksburg, WV 26301
622-3871

Address _____

RECEIVED
OCT 29 1980
OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated October, 1980, to the undersigned well operator from Consolidated Gas Supply Corporation if said deed, lease, or other contract has been recorded:]

Recorded on NOT OF RECORD, 19 , in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book at page . A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

--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
PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
105 WASHINGTON STREET EAST
CHARLESTON, WV 25311
PHONE: (304) 346-1000

MARKET BOND

Carson Petroleum Corporation
Well Operator

By Lawell M. Johnson
Agent

COPY

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRIILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.

Address Drawer 40

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Benson

Estimated depth of completed well, 5400 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 50 feet; salt, feet,

Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

DRILLING AND TUBING PROGRAM

DRILLING 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					1150'	1150'	Cement to surface
Intermediate								Sizes
Production	4 1/2						5400'	725 sks or to requirements of rule 15.04
Perforations								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 if the permit for fracturing or stimulating is a part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 6-30-81.

J. B. Sawyer
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:

W A I V E R

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
Its
Sawyer