



(15') 80' 38" LONGITUDE 80-37-50

39 08 55
86 39 25

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 500 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1000' West of Location, Elev. = 1368'

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 21, 1980
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017-2822
 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 1100' WATER SHED ROBERTS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' VADIS 15'
 SURFACE OWNER JOHN GUM New Milton, W.V. ACREAGE 58.18
 OIL & GAS ROYALTY OWNER EARL GUM & O.C. HAUGHT LEASE ACREAGE 58.18
 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 ESTIMATED DEPTH 2300'
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. CLAY JOHNSON
 ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS BOX 133 SAND FORK, W.V. 26430

SEP 23 1980

[08-78]

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

TYPE: Oil / Gas / Liquid Injection / Waste Disposal /
(If "Gas", Production / Underground storage / Deep / Shallow /)
LOCATION: Elevation: 1100' Watershed: Roberts Fork
District: New Milton County: Doddridge Quadrangle: New Milton

OPERATOR Rockwell Petroleum Company DESIGNATED AGENT Robert R. Jones
Address P O Box 86 Address P O Box 86
Sand Fork, WV 26430 Sand Fork, WV 26430

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

DATE ISSUED ON September 2, 1980 OIL & GAS INSPECTOR FOR THIS WORK:
APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

LOGICAL TARGET FORMATION: Big Injun Depth 5143 feet
Depth of completed well, 5517 feet Rotary / Cable Tools
Water strata depth: Fresh, 20 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced September 12, 1980, and completed September 21, 1980

LOGGING AND TUBING PROGRAM

LOG OR LOG TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
ductor								Minds
h water						1133	1133	To surface
mediate								Sizes
uction	4½						5414'	150 sks Depth set
rs								Perforations: Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

FLOW DATA
Producing formation Benson Pay zone depth 5143 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 Elk Alexander Pay zone depth 5353 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 267,000 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 6 hours
Static rock pressure, 1780 psig (surface measurement) after 48 hours shut in

[08-78]

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

Fractured September 26, 1980

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2700 lb. breakdown
505 bbls. water
20 bpm at 2400 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2000 lb. breakdown
550 bbls. water
24 bpm at 2000 lb.

Perforations - 5327 - 5353, 7 holes

Perforations - 5026 - 5043, 8 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
Surface			0	18	
and			18	30	Water at 20"
andy Shale			30	430	
coal			430	434	
and & Shale			434	735	
coal			735	740	
and & shale			740	1156	
red rock & shale			1156	2110	
lime			- 2110	2123	
shale			2123	2155	
lime			- 2155	2200	
and			2200	2415	
andy Shale			2415	2553	
and			2553	2610	Show of oil
and & shale			2610	5020	
and (Benson)			- 5020	5030	
shale			5030	5135	
and			5135	5165	
shale			5165	5320	
and (Elk) shale			5320	5420	
and & Shale			5420	5517	
Total Depth			5517		

(Attach separate sheets to complete as necessary.)

Carson Petroleum Corporation
Well Operator

By [Signature]

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."

[08-78]

COPY

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J. Gum #1

API Well No. 47 - 017 2822
State County Permit

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

LOCATION: Elevation: 1100' Watershed: Roberts Fork
District: New Milton 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

LAND & GAS
ROYALTY OWNER Earl Gum & O. C. Haught
Address New Milton, WV

COAL OPERATOR N/A
Address _____

ACREAGE 58.18

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER John Gum
Address New Milton, WV

Name N/A
Address _____

ACREAGE 58.18

Name N/A
Address _____

RECENT SALE (IF MADE) TO:
Name N/A
Address _____

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

LAND & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address Clarksburg, WV 26301
622-3871

OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED

SEP - 2 1980

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated October 25, 1977, to the undersigned well operator from O. C. Haught & Blanche T. Haught, Earl Gum of said deed, lease, or other contract has been recorded:]

Recorded on January 10, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 103 at page 366. 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) _____

--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
15 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3099

Carson Petroleum Corporation
Well Operator

By Laura Cochran
Its Secretary

PROPOSED WORK ORDER

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

DILLING CONTRACTOR (IF KNOWN) Union Drilling, Inc.

Address Drawer 40

Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Big Injun

Estimated depth of completed well, 2300 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 125 feet; salt, feet.

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

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	Left in well		
Conductor									Kinds
Fresh water	8 5/8					1100'	1100'	To surface	Sizes
Intermediate									
Production	4 1/2						2300'		Depths set
Logging									Perforations: --
Packers									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 this permit must be posted at the well site 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 5-5-81.

[Signature]
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.