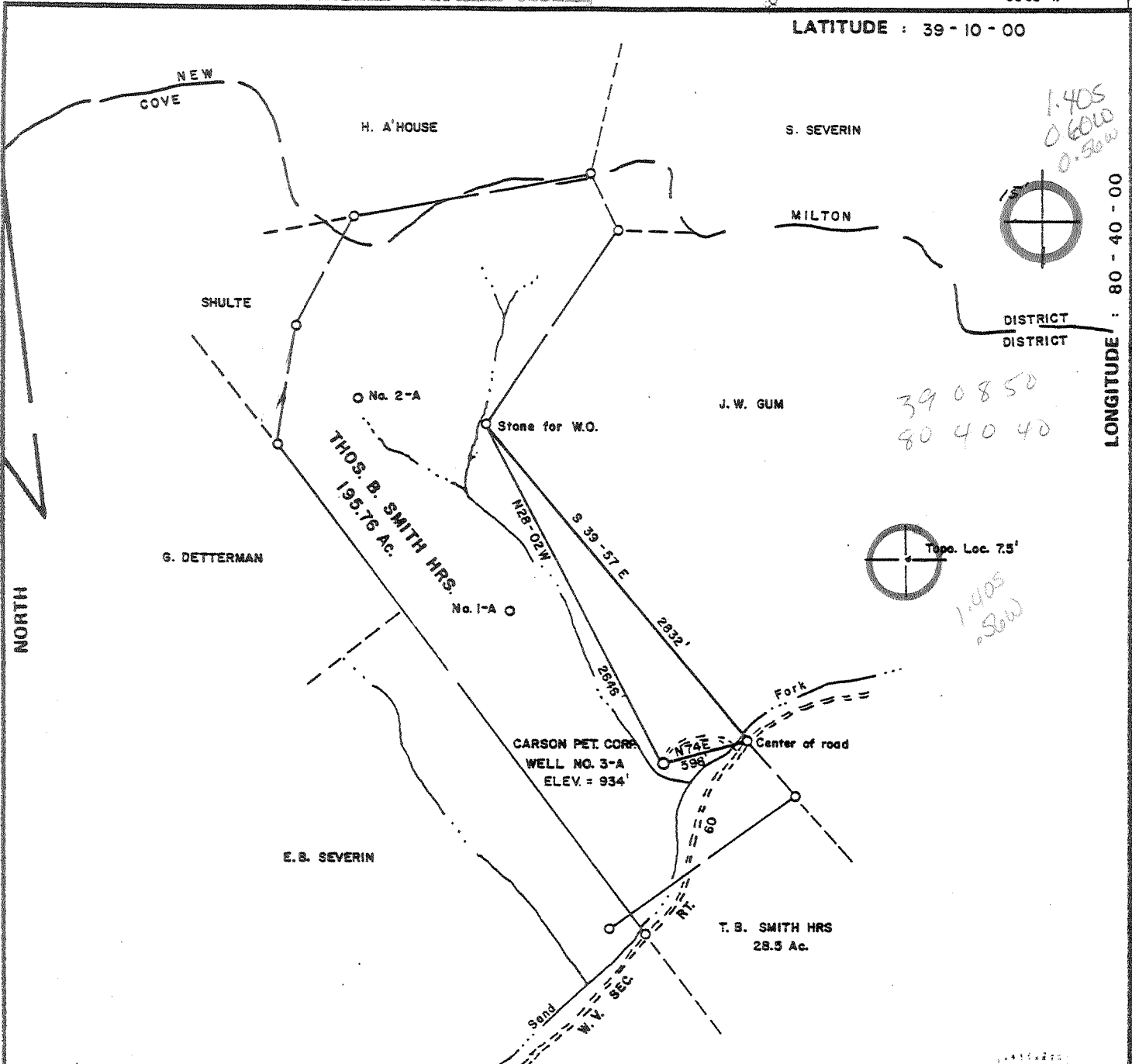


BL 1/23

Plot Card CSD

3060' W

LATITUDE : 39 - 10 - 00



LONGITUDE : 80 - 40 - 00

7620' S

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1900' SE of Location Elev. = 1304'

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 DECEMBER 19 19 80
 OPERATOR'S WELL NO. THREE - A
 API WELL NO. 47 - 017 - 2959
 STATE COUNTY PERMIT

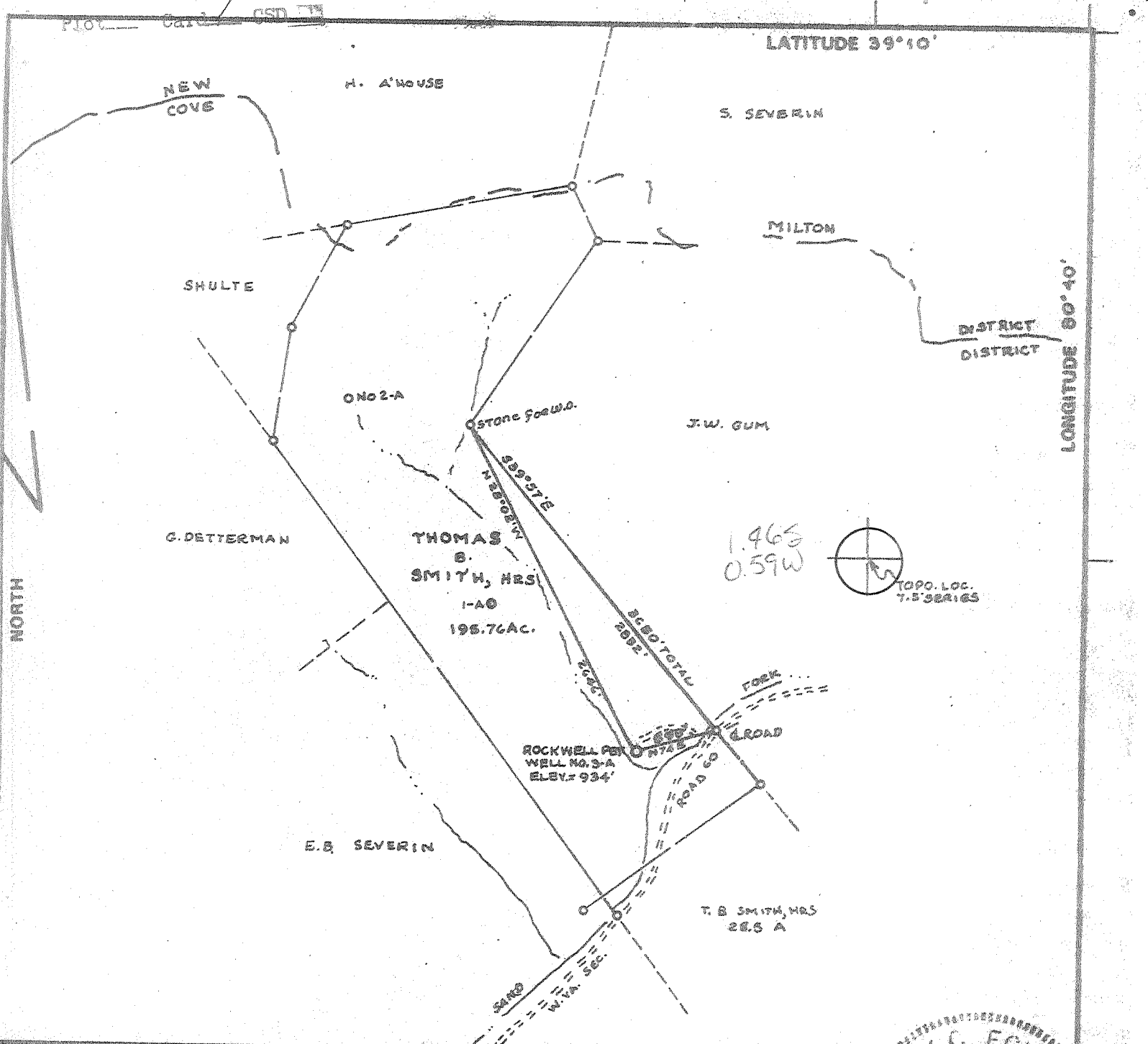
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 934' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 75'
 SURFACE OWNER GILBERT J. CAPOS ACREAGE 195.76
 OIL & GAS ROYALTY OWNER O.C. HAUGHT HEIRS LEASE ACREAGE 195.76
 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 DEVONIAN SHALE ESTIMATED DEPTH 5280'
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. LOWELL M. JOHNSON
 ADDRESS BOX 133 SAND FORK, W.V. 26430 ADDRESS BOX 133 SAND FORK, W.V. 26430

TRASCO

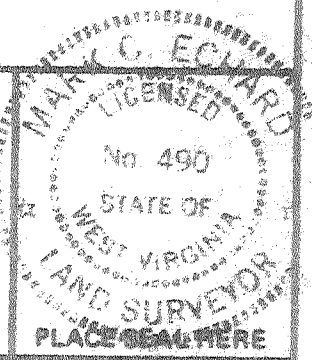
6-6 NEW MILTON S.

FFR 12 1001 307



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNQA 1900'S E
 OF LOC. - ELEV. = 1304'

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



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



DATE FEBRUARY 29, 1980
 OPERATOR'S WELL NO. THREE-A
 API WELL NO. 47-017-2668
 STATE COUNTY PERMIT
 NOW: 017-2959

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 934' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' W. Va. 613
 SURFACE OWNER GILBERT J. CAPOS ACREAGE 195.76
 OIL & GAS ROYALTY OWNER O.C. HAUGHT, HEIRS LEASE ACREAGE 195.76
 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 DEVONIAN SHALE ESTIMATED DEPTH 5280'
 WELL OPERATOR ROCKWELL PETROLEUM CO. DESIGNATED AGENT MR. ROBERT P. JONES
 ADDRESS P.O. BOX 86 ADDRESS P.O. BOX 86
SAND FORK, W.VA. 26430 SAND FORK, W.VA. 26430

MAY 15 1980

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

FORM 705
(Obverse)
[08-75]

COPY

WELL OPERATOR'S REPORT

OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date: April 22
Operator's Well No. Smith #3A
API Well No. 17 - 017 - 29
State County Fe

017-2959 T

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

LOCATION: Elevation: 934' 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 January 23, 19 81 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED _____)
Name Steve Casey
Address Jane Lew, WV
884-7470

GEOLOGICAL TARGET FORMATION: Elk Depth 4924 feet
Depth of completed well, 5400 feet Rotary / Cable Tools
Water strata depth: Fresh, _____ feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced January 29, 19 81, and completed February 2, 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					1130'	1130'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5331'	480 sks
Tubing								Deaths set
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

Producing formation Benson-Erian Pay zone depth 2125 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 4924 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 1,089 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 12 hour

DEC 23 1981

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

Fractured April 21, 1981

Elk - 10,000 lb. 80/100 sand
 17,500 lb. 20/40 sand
 2400 lb. breakdown
 18 BPM at 2161 lb.

Benson 10,000 lb. 80/100 sand
 20,000 lb. 20/40 sand
 2600 lb. breakdown
 17.5 BPM at 2085 lb.

Perforations - 4924 - 4921.5, 6 holes

Perforations - 2125 - 2109, 9 holes.

OG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand, Shale, Red Rock			0	1990	
Little Lime			1990	2004	
Pencil Cave			2004	2031	
Big Lime			2031	2091	
Big Injun			2091	2186	Gas show
Gray Shale			2186	2222	
Weir Sand			2222	2353	
Gray Shale			2353	2446	
Gantz Sand			2446	2470	
Gray Shale			2470	4918	
Benson Sand			4918	4929	
Gray Shale			4929	5194	
Elk Sand			5194	5314	
Gray Shale			5314	5400	
Total Depth			5400		

(Attach separate sheets to complete as necessary)

Carson Petroleum Corporation
 Well Operator

By Lawell M. Johnson
 Its Agent

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

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

Date: March 31, 19 80

Operator's
Well No. Smith #3A

API Well No. 47 - 017 - 2668
State County Permi

now 1017-2959

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

LOCATION: Elevation: 934' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: New Milton

WELL OPERATOR Rockwell Petroleum Company
Address P O Box 86
Sand Fork, WV 26430

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

OIL & GAS
ROYALTY OWNER O. C. Haught Heirs
Address Salem, WV

COAL OPERATOR N/A
Address

Acreage 195.76

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER Gilbert J. Capos
Address 3406 65th Avenue
Landover, MD

Name N/A
Address

Acreage 195.76

Name N/A

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

Address

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

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

APR - 2 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 X / other contract / dated October 25, 19 77, to the undersigned well operator from O. C. Haught and Blanche Haught, et al

[If said deed, lease, or other contract has been recorded:]
Recorded on January 10, 19 78, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Lease Book 103 at page 379. 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
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Rockwell Petroleum Company
Well Operator
By Mark R. Wood
Its Partner

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, Devonian Shale

Estimated depth of completed well, 5280 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 139 feet; salt, N/A feet.

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

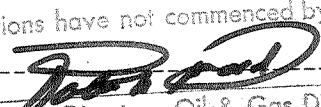
DRILLING AND TUBING PROGRAM

DRILLING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	8 5/8					1190	1190	To surface		
Intermediate										
Production	4 1/2						5280'			Depths set
Logging										
Packers										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 paid 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 12-3-80.


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.

_____, 19____

By
Its



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 23 1981

COPY

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPARTMENT OF MINES

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

DATE January 22, 1981

Surface Owner Gilbert T. Capos

Company Carson Petroleum Corporation

Address 3406 65gh Avenue, Landover, MD

Address P O Box 133, Sand Fork, WV 26430

Mineral Owner O. C. Haught Heirs

Farm Smith Acres 195.76

Address Salem, WV

Location (waters) Sand Fork

Coal Owner N/A

Well No. Three-A Elevation 934'

Address _____

District Cove County Doddridge

Coal Operator N/A

Quadrangle New Milton

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 drilling. This permit shall expire if operations have not commenced by 9-26-81.

INSPECTOR
TO BE NOTIFIED Steve Casey

ADDRESS Jane Lew, WV

PHONE 884-7470

J. P. Morgan
Deputy Director, Oil & Gas Division

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 October 25 1977 by O. C. Haught et al made to Rockwell Petroleum Company and recorded on the 10 day of January 9 1978, in Doddridge County, Book 103 Page 379

NEW WELL DRILL DEEPER 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

Very truly yours, Carson Petroleum Corporation
(Sign Name) Lawell M. Johnson
Well Operator

OFFICE OF OIL AND GAS
615 Washington Street, East
Charleston, West Virginia
Area Code 304 -348-3092 348-3096

Address
of
Well Operator

P O Box 133
Street
Sand Fork
City or Town
West Virginia 26430
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.

PERMIT BOND

47-017- 2959

PERMIT NUMBER

I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements.

Signed by Lawell M. Johnson

