



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 Jct. Rds. 4000' E of Location ELEV. = 839'

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 OCTOBER 20, 19 80
 OPERATOR'S WELL NO. THREE
 API WELL NO. 47-017-2895
 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 1190' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 75' 15' WC
 SURFACE OWNER HERBERT J. & THELMA SCHMIDT ACREAGE 305.35
 OIL & GAS ROYALTY OWNER HERBERT J. & THELMA SCHMIDT LEASE ACREAGE 305.35
 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 5700'
 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

JAN 2 1981

6-6 TO FRANK ER New Milton South (309)

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

Date January 13, 1980

FORM IV-35
(Obverse)

Operator's
Well No. H. Schmidt #3

[08-78]

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

API Well No. 47 - 017 - 2895
State County Perm:

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

LOCATION: Elevation: 1190' Watershed: Sand Fork
District: Cove County: Doddridge Quadrangle: Vadis

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 November 18, 1980

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 5341 feet

Depth of completed well, 5425 feet Rotary / Cable Tools

Water strata depth: Fresh, 167 feet; salt, _____ feet.

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

Work was commenced December 9, 1980, and completed December 15, 1980

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					1241'	1241'	To surface
Coal								Sizes
Intermediate								
Production	4 1/2						5383'	320 sks
Tubing								Deaths set
Liners								Perforations:
								Top Bottom

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4984 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 Alexander Pay zone depth 5341 feet

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

Final open flow, 654 Mcf/d Final open flow, 0 Bbl/d

Time of open flow between initial and final tests, 10 hours

Static rock pressure, 1700 psig (surface measurement) after 48 hours shut in

FEB 13 1981

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

Fractured December 31, 1980

~~Elk~~ ^{ALIX} - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1200 lb. breakdown
493 bbls. water
27.3 BPM at 1700 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1800 lb. breakdown
468 bbls. water
16.3 BPM at 1700 lb.

Perforations - 5107 - 5341, 11 holes

Perforations - 4981 - 4984, 5 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	12	
Sand & Shale			12	115	
Sand & Red Rock			115	740	Water 167'
Coal			740	745	
Shale & Red Rock			745	1206	
Sand & Shale			1206	2066	Water 1940'
Little Lime			2066	2085	
Pencil Cave			2085	2093	
Blue Monday Sand			2093	2146	
Big Lime			2146	2183	
Big Injun Sand			2183	2274	
Sand & Shale			2274	2530	
Gantz Sand			2530	2541	
Sand & Shale			2541	5108	
Benson Sand			5108	5116	No gas show
Sand & Shale			5116	5246	
Elk Sand ^{ALIX}			5246	5358	
Shale			5358	5425	
Total Depth			5425		

5425
2400
3025 EXPL F.T.

(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

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
NOV 18 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 17, 1980

Surface Owner Herbert Schmidt
Address St. Clara, Wv
Mineral Owner Herbert Schmidt
Address St. Clara, WV
Coal Owner Eastern Associated Coal Corp.
Address Koopers Building, Pittsbrugh, PA
Coal Operator N/A
Address _____

Company Carson Petroleum Corporation
Address P O Box 133, Sand Fork, WV 26430
Farm H. Schmidt Acres 305.35
Location (waters) Sand Fork
Well No. Three Elevation 1190'
District Cove County Doddridge
Quadrangle Vadis

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 8-3-81.
Paul Garrett
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Paul Garrett
ADDRESS Clarksburg, WV
PHONE 622-3871

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 February 8 19 80 by Herbert J. Schmidt made to Rockwell Petroleum Company and recorded on the 2nd day of April 19 80 in Doddridge County, Book 114 Page 295

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) Lowell M. Johnson
Well Operator

OFFICE OF OIL AND GAS
1615 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.

BLANKET BOND

47-017-2895 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 Lowell M. Johnson

