



- CORNERS:**
 A, C, D, E, F - Stone
 G - W.O.
 H - Mulberry
- LINES:**
 1 - N85W 148.2'
 2 - N2E 16.5'
 3 - S89W 141.0'
 4 - S31-30W 28.4'
 5 - S89E 189.78'
 6 - N2E 257.4'
 7 - N80E 198'
 8 - S75W 137.28'
 9 - N20W 99'
 10 - N52-30W 158.4'
 11 - S60W 16.5'
 12 - N59W 234.2'
 13 - S54W 178.2'
 14 - S51-45E 65.14'
 15 - S19E 123.4'
 16 - S59W 76.56'
 17 - S61W 99.10'

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. 4200' SE 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.

(SIGNED) Mark C. Echard
 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, 1980
 OPERATOR'S WELL NO. FOUR
 API WELL NO. _____
47 - 017 - 2896
 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 1020' WATER SHED SAND FORK
 DISTRICT COVE COUNTY DODDRIDGE
 QUADRANGLE VADIS 7.5' ± 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 5550'
 WELL OPERATOR CARSON PETROLEUM CORP. DESIGNATED AGENT MR. LOWELL M. JOHNSON
 ADDRESS BOX 133 SAND FORK, WV. 26430 ADDRESS BOX 133 SAND FORK, WV. 26430

JAN 2 1981

6-6 New Milton South (307)

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

Date February 24, 1980

FORM IV-35
(Obverse)

Operator's
Well No. H. Schmidt #4

WELL OPERATOR'S REPORT
OF

API Well No. 47 - 017 - 2896
State County Perm

[08-78]

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1020' 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, 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: Devonian Shale Depth 5282 feet
Depth of completed well, 5431 feet Rotary / Cable Tools
Water strata depth: Fresh, 90 feet; salt, _____ feet.
Coal seam depths: None Is coal being mined in the area? No
Work was commenced December 16, 19 80, and completed December 21, 19 80

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					1223'	1223'	To surface
Coal								Sizes
Intermediate								Depths set
Production	4 1/2						5331'	320 sks
Tubing								
Liners								Perforations:
								Top Bottom

OPEN FLOW DATA

OIL & GAS DIVISION
DEPT. OF MINES

Producing formation Basnor Pay zone depth 5943 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 5282 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, 0 Bbl/d
Final open flow, 907,000 Mcf/d Final open flow, 0 Bbl/d
Time of open flow between initial and final tests, 8 hours
Static rock pressure, 825 psig (surface measurement) after 48 hours shut in

MAR 22 1981

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

Fractured January 12, 1981

Elk - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
1900 lb. breakdown
499 bbls. water
16. BPM at 2500 lb.

Benson - 20,000 lb. 80/100 sand
40,000 lb. 20/40 sand
2000 lb. breakdown
485 bbls. water
15.1 BPM at 1500 lb.

Perforations - 5189 - 5282, 6 holes

Perforations - 5940 - 5943, 6 holes

WELL LOG

FORMATION	Color	Hard or Soft	20		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Sand, Shale, Red Rock			0	2014	Water at 90'
Little Lime			- 2014	2026	
Pencil Cave Shale			2026	2057	
Blue Monday Sand			2057	2070	
Big Lime			- 2070	2121	
Big Injun			2121	2222	
Gray Shale			2222	2265	
Weir Sand			2265	2393	
Gray Shale			2393	2476	
Gantz Sand			2476	2488	
Gray Shale			2488	4933	Gas test at 2498, no show
Benson Sand			- 4933	4947	Gas test at 3000, no show
Gray Shale			4947	5240	
Elk Sand			5240	5370	
Gray Shale			5370	5431	
Total Depth			5431		

(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



H. Schmidt #4

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
NOV 18 1980

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

OIL & GAS DIVISION
DEPT. OF MINES

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, Pittsburgh, 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. Four Elevation 1020'
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

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

[Signature]
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 February 8 1980 by Herbert J. Schmidt made to Rockwell Petroleum Company and recorded on the 2nd day of April 1980 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) Lewell 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.

MARKET BOND

47-017-2896

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 Lewell M. Johnson (etc)

[Handwritten signature]

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Union Drilling, Inc. NAME Lowell M. Johnson
 ADDRESS Drawer 40, Buckhannon, WV 26201 ADDRESS P O Box 133, Sand Fork, WV 26430
 TELEPHONE 472-4610 TELEPHONE 462-7009
 ESTIMATED DEPTH OF COMPLETED WELL: 5550' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

PROPOSED TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
10" - 16"			
8" - 10"			
6" - 5/8"			
6" - 5/8"	1200'	1200'	To surface
4" - 1/2"			
4" - 1/2"		5550'	750 sks
			Perf. Top
			Perf. Bottom
3" - 1/2"			Perf. Top
3" - 1/2"			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

- TO DRILL:**
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.
- TO DRILL DEEPER OR REDRILL:**
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.
- TO FRACTURE - STIMULATE:**
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.
- Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt hereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.
 We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company

 Official Title

MAR 06 1996

STATE OF WEST VIRGINIA

Page 1 of 1

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

017 2796 Frac.

WELL WORK PERMIT APPLICATION

Permitting

21709

Well Owner: MERIDIAN EXPLORATION CORP. 31805 (1) 526

Operator's Well Number: BURGESS #2 (1572) 3) Elevation: 1030

Well type: (a) Oil ___ or Gas X/ Issued 03/21/96
(b) If Gas: Production X/ Undergr. Storage ___ Expires 03/21/98
Deep ___ Shallow ___

Proposed Target Formation(s): Balltown @ 3800' + Speechley @ 3400'

Proposed Total Depth: 5532' feet

Approximate fresh water strata depths: 50'

Approximate salt water depths: N/A

Approximate coal seam depths: None

Does land contain coal seams tributary to active mine? Yes ___ No X

Proposed Well Work: Set plug. Perforate + Frac Balltown @ 3800'.
Perforate + Frac Speechley @ 3400'. Drill plug

CASING AND TUBING PROGRAM

Comingle with existing production

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 3/4"			19	0	
Fresh Water						
Coal						
Intermediate	8 5/8"		23	1812	1812	CTS
Production	4 1/2"		10.5	5346	5346	CTS
Tubing						
Liners						

Existing from well records

PACKERS : Kind N/A
Sizes
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: [] Well Work Permit [] Reclamation Fund [] WPCP
Plat [] WW-9 [] WW-2B [] Bond [] Agent
(Type)

RECEIVED
WV Division of
Environmental Protection

MAR 06 1996

Permitting
Office of Oil & Gas

1) Date: 2/29/96
2) Operator's well number
BURGESS #2 (1572)
3) API Well No: 47 - 017 - 2796
State - County - Permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name RALPH CUNNINGHAM
Address ROUTE 1 BOX 198A
WEST UNION, WV 26456
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator: NO COAL
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

6) Inspector MIKE UNDERWOOD
Address ROUTE 2 BOX 135
SALEM, WV 26426
Telephone (304)-782 0143

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
 Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties, by:
 Personal Service (Affidavit attached)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator MERIDIAN EXPLORATION CORP.
By: John Guide JOHN GUIDE - Chief Engin
Its: PENN CENTER WEST TWO, SUITE 325
Address PITTSBURGH, PA 15276
(412) 494 0604

Telephone _____
Subscribed and sworn before me this 26th day of February, 1996

Linda E. Raffle Notary Public
My commission expires December 29, 2000

