

Janie 12/11/90
T.D. SWIGER LEASE 99.25 AC. ±

LATITUDE 39° 22' 30" W
LONGITUDE 80° 45' 00" S

T. SAVORY, et ux

JOSEPH CORATHERS
99.25 AC. SURF.

J. CORATHERS

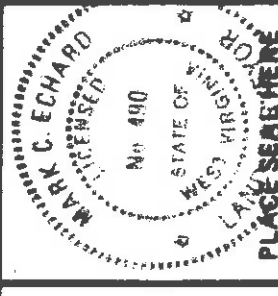
WELL REFERENCES
CAMPBELL NO. 1 0' 1108.3'

OLD EXISTING CASING
*Calc. 15' loc
5.38 W
0.50. W
W. UNKOR*

1" = 200'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Jct. of Rd., Sec. 28 & 28/2 1700 ± S. of Loc. Elev. = 862'

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.I.S. 490



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



DATE JUNE 8, 19 90
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017
 STATE COUNTY PERMIT 3869-00

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 995' WATER SHED BRANCH OF NUTTER FORK
 DISTRICT WEST UNION COUNTY DODDRIDGE

SURFACE OWNER JOSEPH CORATHERS
 OIL & GAS ROYALTY OWNER THOMAS DOAK HRS., et al
 LEASE NO. _____ ACREAGE 99.25
 LEASE ACREAGE 99.25

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-RILEY ESTIMATED DEPTH 5500' ±
 WELL OPERATOR D.A.C. 280 DESIGNATED AGENT KENNETH MASON
 ADDRESS P.O. BOX 99 ALMA, W.V. 26320

BIAS BLUEPRINT INC. High. W. Va. *swed* 6-6 Swiger (Flint Run) (099)

DEC 14 1990

RECEIVED

Division of Energy

APR 29 91

Permitting

Oil and Gas Section Well Operator's Report of Well Work

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

API # 47- 17-03869

10-Dec-90

Farm name: CORATHERS, JOSEPH Operator Well No.: SWIGER 1

LOCATION: Elevation: 995.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE
Latitude: 12990 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2600 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: DRILLING APPALACHIAN CORP

P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 12/10/90
Well work Commenced: 12/8/90
Well work Completed: 2/26/91
Verbal Plugging
Permission granted on: Rig
Rotary X Cable
Total Depth (feet) 5150'
Fresh water depths (ft) 150

Salt water depths (ft) 1500

Is coal being mined in area (Y/N)? N
Coal Depths (ft):

| Casing & Tubing Size | Used in Drilling | Left in Well | Cement Fill Cu. Ft. |
|----------------------|------------------|--------------|---------------------|
| 7" | 1960' | 1960' | CTS |
| 5-1/2" | 2388' | 2388' | 75sks |
| 3-1/2" | 5149' | 5149' | 80sks |
| | | | |
| | | | |

OPEN FLOW DATA

Producing formation Benson Sand
Gas: Initial open flow show MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 320 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1575 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) 5028'-
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 pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: DRILLING APPALACHIAN CORP.

By: *Kenneth R. Mason*

Date: 4/19/91

MAY 6 1991

Perforated 5047'-5051', 15 shots, Fraced with 10,000#80/100
 30,000#, 20/40 sand, 50,000SCF Nitrogen Gás, Formation Break
 3900 psi, avg psi 3207, avg rate 16.7 bbl/min, avg nitrogen rate
 2080 SCF/min, INSIP 1785psi, 5 min SIP 1511, 10 min SIP 1474 psi

DATE
 TIME
 APR 29 91
 SECTION

| | | |
|----------------------------|------|------|
| Permian Sands/Shales | 0 | 500 |
| Pennsylvanian Sands/Shales | 500 | 1900 |
| Mississippian Sands/Shales | 1900 | 2496 |
| Gantz Sand | 2497 | 2514 |
| Shale/Siltstones | 2515 | 2714 |
| Gordon Sands | 2715 | 2742 |
| Shale/Siltstones | 2743 | 3395 |
| Warren | 3396 | 3420 |
| Shale/Siltstone | 3421 | 3601 |
| Speechley | 3602 | 3700 |
| Shale/Siltstone | 3701 | 4139 |
| Balltown | 4140 | 4200 |
| Shale/Siltstone | 4201 | 4567 |
| Riley | 4568 | 4586 |
| Shale/Siltstone | 4587 | 5027 |
| Benson | 5028 | 5032 |
| Shale | 5033 | 5160 |

DD Avg?

5160 New TD
 2496 Old TD??
 2664 New TD??

11667

Drained 12/10/90
Expires 12/10/92

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

1) Well Operator: 311 DRILLING APPALACHIAN CORPORATION 1425(8) 67

2) Operator's Well Number: SWIGER #1 3) Elevation: 995'

4) Well type: (a) Oil X / or Gas X /

(b) If Gas: Production X / Underground Storage Shallow X /
Deep 435

5) Proposed Target Formation(s): Benson/Riley

6) Proposed Total Depth: 5500'± feet

7) Approximate fresh water strata depths: 105'

8) Approximate salt water depths: _____

9) Approximate coal seam depths: -0-

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

11) Proposed Well Work: Drill, perforate, stimulate new formation

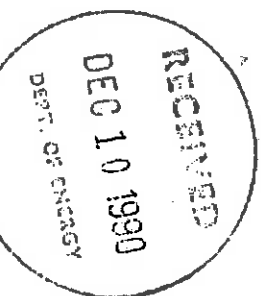
12) Drill deeper

CASING AND TUBING PROGRAM Drill Spacing Top 24 Well Deeper.

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------------------|----------------|-------------------|--------------|-------------------|
| | Size | Grade | Weight per ft. | For drilling | Left in well | |
| Conductor | | | | | | Fill-up (cu. ft.) |
| Fresh Water | | | | | | |
| Coal | | | | | | |
| Intermediate | | | | | | |
| Production | 4-1/2" | 50,000 min. yield | 11.6# | 5100' | 5100' | 38CSR18.11.1 |
| Tubing | | | | | | |
| Liners | | | | | | |

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Plat WW-9 Bond (Type) Agent



1) Date: Nov. 5, 1990
2) Operator's well number _____
Swiger #1
3) API Well No: 47 - 017 - 3869-D
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 Joseph Corathers
Address #1501 Roanoke Blvd.
Salem, Virginia 24153
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Route 2, Box 135
Salem, WV 26426
Telephone (304) - 782-1043

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
X 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 5 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 _____
DRILLING APPALACHIAN CORPORATION



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
J. L. MASON
P. O. Box 48
Alma, West Virginia 26320
My Commission Expires Jan. 28, 1997

BY: *Samuel T. Mason* President
ITS: _____ P. O. Box 99
Address _____ Alma, WV 26320-0099
Telephone (304) 758-4638
Subscribed and sworn before me this 5th day of November, 1990

My Commission expires 1/28/97 Notary Public