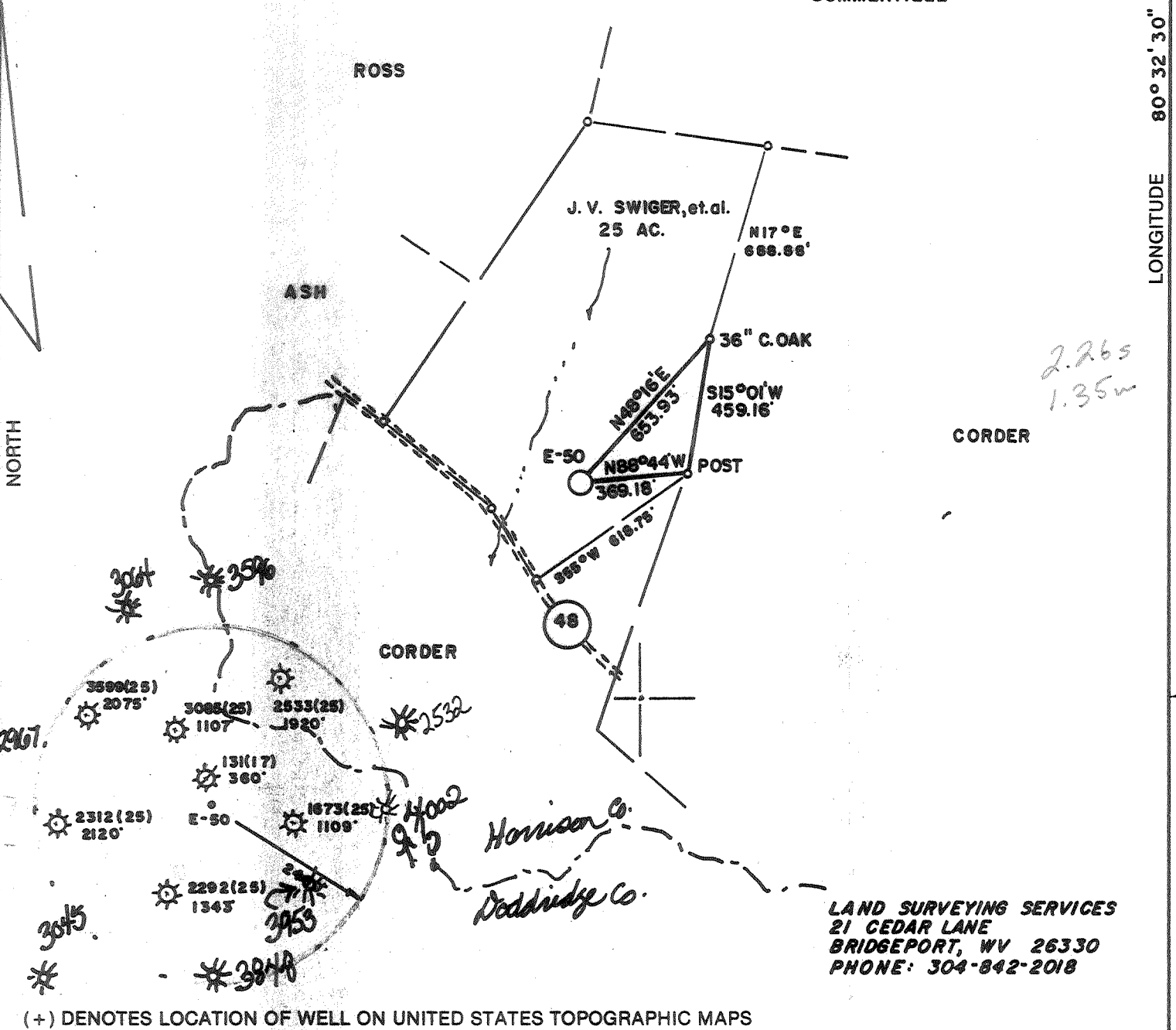


June 5/11/88
 7/31/96

7,100' LATITUDE 39° 15' 00"

WELL REFERENCES:
 N64°E, 149' TO 8" FORKED R. MAPLE
 S19°E, 109' TO 4" R. MAPLE

SUMMERVILLE

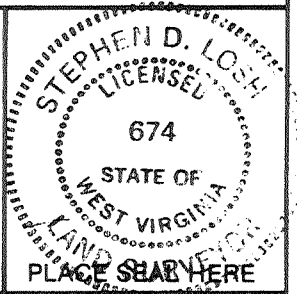


LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 1000' N.W. OF LOCATION ELEV. - 1051'

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 ENERGY.
 (SIGNED) Stephen D. Losh
 R.P.E. _____ L.L.S. 674



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 22, 1988
 OPERATOR'S WELL NO. E-50
 API WELL NO. 47-017-03639-7

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1116' WATERSHED BIG ISAAC CREEK OF MEATHOUSE FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min.

SURFACE OWNER JAMES L. CORDER ACREAGE 25
 OIL & GAS ROYALTY OWNER JULIA V. SWIGER, et al. LEASE ACREAGE 25

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
Set Temporary Plug for Balltown & Spechtley Comingle with Genan & Depledge
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5450' - 3600'

WE AD Exploration Partners & Producing Co. P.O. Box 1245 Bridgeport, wv. a 26330-1245
 DESIGNATED AGENT Louis Ferrari Same Address PH: 304-842-8777

LONGITUDE 80° 32' 30" 006' 11"

2.265
 1.35w

COUNTY NAME DODD

PERMIT 3639

H.T. HALL 48675 FORM WW-6

AUG 2 1996

5584



IV-35
(Rev 8-81)

Date July 8, 1988
Operator's _____
Well No. E-50
Farm Corder
API No. 047-017-3639

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 1116' Watershed Big Isaac Creek
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY EXCEL ENERGY, INC.

ADDRESS P.O. BOX 1020, BRIDGEPORT, WV 26330

DESIGNATED AGENT H. L. BARNETT

ADDRESS P.O. BOX 1020, BRIDGEPORT, WV 26330

SURFACE OWNER JAMES CORDER

ADDRESS Mt. Clare, WV

MINERAL RIGHTS OWNER JAMES CORDER

ADDRESS MT. CLARE, WV

OIL AND GAS INSPECTOR FOR THIS WORK _____

MIKE UNDERWOOD ADDRESS RT. 2 BOX 114, SALEM, WV

PERMIT ISSUED MAY 12, 1988

DRILLING COMMENCED JUNE 22, 1988

DRILLING COMPLETED JUNE 28, 1988

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

| Casing Tubing | Used in Drilling | Left in Well | Cement fill up Cu. ft. |
|------------------------|---------------------|-----------------|------------------------------|
| Size 20-16 Cond. | 20 | 0 | SANDED IN |
| 13-10" | | | |
| 9 5/8 | | | |
| 8 5/8 | 1071 | 1071 | CTS |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | 5389 | 5389 | 475 SKS |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION BENSON, ALEXANDER Depth 5900 feet

Depth of completed well 5,450 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 130 feet; Salt _____ feet

Coal seam depths: 372-75 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation ALEXANDER Pay zone depth 5260-5290 feet

Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 1,100 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1,550 psig (surface measurement) after 72 hours shut in

(If applicable due to multiple completion--)

Second producing formation BENSON Pay zone depth 4920-4935 feet

Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours NOV 18 1988

Static rock pressure 1800 psig (surface measurement) after 72 hours shut in

(Continue on reverse side)

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

| | | |
|--------------|-----------|--------------------------|
| PERFORATIONS | 5260-5290 | 700 BTLs 75QFOAM 350 SKS |
| II BENSON | 4920-4935 | 700 BTLs 75QFOAM 350 SKS |

WELL LOG

| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|------------------------------|----------|-------------|---|
|------------------------------|----------|-------------|---|

| | | | |
|--------------|------|------|--|
| SAND | 0 | 5 | |
| SAND & SHALE | 5 | 40 | |
| SAND | 40 | 120 | |
| SAND & SHALE | 120 | 258 | |
| RED ROCK | 258 | 372 | |
| COAL (SOLID) | 372 | 375 | |
| SHALTY SAND | 375 | 645 | |
| SAND | 645 | 720 | |
| SAND & SHALE | 720 | 815 | |
| RED ROCK | 815 | 850 | |
| SAND & SHALE | 850 | 2015 | |
| BIG TIME | 2015 | 2085 | |
| BIG INJUN | 2085 | 2155 | |
| SAND & SHALE | 2155 | 2710 | |
| GORDON | 2710 | 2790 | |
| SAND & SHALE | 2790 | 4925 | |
| BENSON | 4925 | 4945 | |
| SHALE | 4945 | 5270 | |
| ALEXANDER | 5270 | 5300 | |
| SHALE | 5300 | 5450 | |

(Attach separate sheets as necessary)

EXCEL ENERGY, INC.
Well Operator

By: *[Signature]*
CONSULTANT GEOLOGIST

Date: JULY 8, 1988

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 ... encountered in the drilling of a well."

017-3639

4-10
Issued 5/12/88
Expires 5/12/90
Page ___ of ___

FORM ~~WW~~-2B

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

- 1) Well Operator: ¹⁰²⁸ EXCEL ENERGY, INC. 16570, 4, 252
- 2) Operator's Well Number: E-50 3) Elevation: 1116'
- 4) Well type: (a) Oil or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5900 feet
- 7) Approximate fresh water strata depths: 100, 280, 750
- 8) Approximate salt water depths: 1800
- 9) Approximate coal seam depths: Doddridge 131, 1673, 2292, 659'-663' 0 116'-121', 708'-712'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill & Frac New Well
- 12)

CASING AND TUBING PROGRAM

| TYPE | SPECIFICATIONS | | FOOTAGE INTERVALS | | CEMENT | |
|--------------|----------------|-------|-------------------|--------------|--------|--------------|
| | Size | Grade | Weight per ft. | For drilling | | Left in well |
| Conductor | 113/4 | | | 30 | 0 | |
| Fresh Water | | | | | | |
| Coal | | | | | | |
| Intermediate | 85/8 | | | 1000 | 1000 | 225 sks' |
| Production | 41/2 | | | 5500 | 5500 | 400 sks |
| Tubing | | | | | | |
| Liners | | | | | | |

1028
connect to barrow
38CSR18-11.3
38CSR18-11.2
38CSR18-11.1

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MAY 11 1988

PACKERS : Kind _____
Sizes _____
Depths set _____

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Plat WW-9 WW-2B Bond 50 Blanket Agent

(Type)

7009
1875
111

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MAY 11 1988

Page 1 of P
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: April 26th, 1988
Operator's well number E-50
API Well No: 47 - 017 - 3639
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 James L. Corder
Address _____
 - (b) Name C. Lee Corder
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt. 2 Box 114
Salem, WV 26426
Telephone (304)- 782-1043

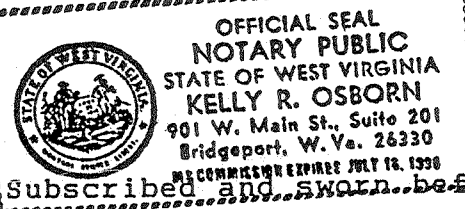
- 5) (a) Coal Operator:
Name Willis G. Tetrick, Jr.
Address _____
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____

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 _____ on the above named parties, by:
 _____ Personal Service (Affidavit attached)
X _____ 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 EXCEL ENERGY, INC.
 By: H. L. Barnett, President *[Signature]*
 Its: _____
 Address P.O. Box 1020
Bridgeport, WV 26330
 Telephone (304)-842-6927



Subscribed and sworn before me this 26th day of April, 1988
[Signature] Notary Public
 My commission expires 7-16-96

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

1) Well Operator: Exploration Partners Producing Company ⁵⁵⁸⁸ 16585 (4) 282
Operator's Well Number: E-50 (Corder) 3) Elevation: 1116'

22310

Well type: (a) Oil ___/ or Gas x/ *Issued 07/30/96 Expires 07/30/98*
(b) If Gas: Production x/ Underground Storage ___/
Deep ___/ Shallow x/

Proposed Target Formation(s): Alexander ^{43'} 5200' - 5290'

Proposed Total Depth: ~~5300'~~ 5450' *Benson 4920' - 4930'*

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Environmental Protection
JUL 15 1996
Permitting
Division of Oil & Gas

- 7) Approximate fresh water strata depths: 100, 280, 750
- 8) Approximate salt water depths: 1800
- 9) Approximate coal seam depths: 0
- 10) Does land contain seams tributary to active mine? Yes / No X /

11) Proposed Well Work: Frac (Balltown, Speechley)
12) *Set temporary plug frac* *Remove Plug Annular with Benson*
CASING AND TUBING PROGRAM *and alexander*

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

| TYPE | Size | Grade | Weight per ft | For Drilling | Left in Well | Fill - up (cu. ft) |
|--------------|--------|-------|---------------|--------------|--------------|--------------------|
| Conductor | 11 3/4 | | | 30 | 0 | |
| Fresh Water | | | | | | |
| Coal | | | | | | |
| Intermediate | 8 5/8 | | | 1000 | 1000 | 225 sks |
| Production | 4 1/2 | | | 5500 | 5500 | 400 sks |
| Tubing | | | | | 5389' | 475 SKS. |
| Liners | | | | | | |

Existing from Well Records

Est Tot @ 2500

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 [] WW-2B [] Bond [] Agent
(Type)

- 1) Date: July 11, 1996
- 2) Operator's Well Number
E-50 (Corder)
- 3) API Well No: 47- 017 - 3639-F
state-county-permit

REFRAC
STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

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Environmental Protection
JUL 15 1996
Permitting
Office of Oil & Gas

4) Surface owner(s) to be served:
(a) Name James L. Corder
Address Rt. 1 Box 119
Clarksburg WV 26301

(b) Name C. Lee Corder
Address Rt. 1 Box 119
Clarksburg WV 26301

(c) Name
Address

5) (a) Coal Operator:
Name N/A
Address

(b) Coal Owner(s) with Declaration
Name Willis G. Tetrick
Address PO Box 267
Clarksburg WV 26302

Name
Address

6) Inspector Mike Underwood
Address Rt. 2 Box 114
Salem WV 26426
Telephone () -

(c) Coal Lessee with Declaration
Name N/A
Address

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 page 1 through on the above named parties, by:

- Personal Service (Affidavit attached)
- x 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 Exploration Partners Producing Co.
By: Louis A. Ferrari Louis A. Ferrari
Its: Vice President
Address: P.O. Box 1245
Bridgeport, WV 26330
Telephone: (304) 842-8777

Subscribed and sworn before me on this 11 day of July, 1996
Ruth Ann Rigdon Ruth Ann Rigdon Notary Public
My commission expires July 29, 2002