

Janice 2/10/89

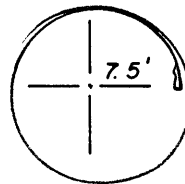
LATITUDE 39° 15' 00"

3050'

BROWN

SAVILLE

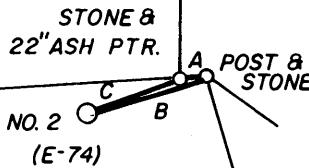
0.785
0.570



LONGITUDE 80° 32' 30" 4160'

DAVIS

N86°15'E, 1382.01'



G. W. BROHARD, HEIRS
35 AC. O. & G.

S17°E, 726'

NIMORWICZ

DEVERICKS

E-39

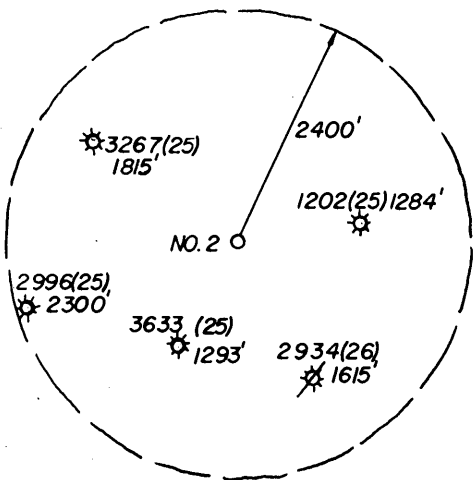
WESTFALL

TIE LINES:

- A) N86°15'E, 62.9'
- B) S72°24'W, 328.26'
- C) N69°11'E, 267.58'

WELL REFERENCES:

- N24°30'E, 76' TO 17" BLACK OAK
- N48°W, 105' TO 10" SASSAFRAS



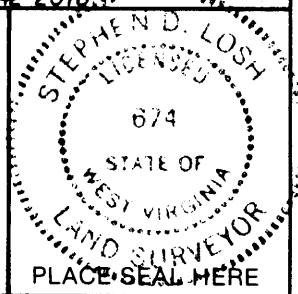
LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018

(+) 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 ROAD INT. 2000' NE. OF LOC. AT ELEV. 1145'

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) _____
R.P.E. _____ L.L.S. NO. 674
STEPHEN D LOSH



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE DECEMBER 15, 1988
OPERATOR'S WELL NO. E-74
API WELL NO. BROHARD 2
47-017-3694
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1406' WATER SHED TRAUGH FORK
DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC 7.5' 252 1233 VADIS NE

SURFACE OWNER GARY L. DAVIS, ET AL. ACREAGE 35.
OIL & GAS ROYALTY OWNER C.W. BROHARD, HRS. LEASE ACREAGE 35.
LEASE NO. _____

PROPOSED WORK: DRILL X 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 ___ FEB 17 1989

TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5800'
WELL OPERATOR EXCEL ENERGY, INC. 1028 DESIGNATED AGENT HARRY BARNETT
ADDRESS P.O. BOX 1020 ADDRESS P.O. BOX 1020
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

FORM WW-6

COUNTY NAME PERMIT

3050'

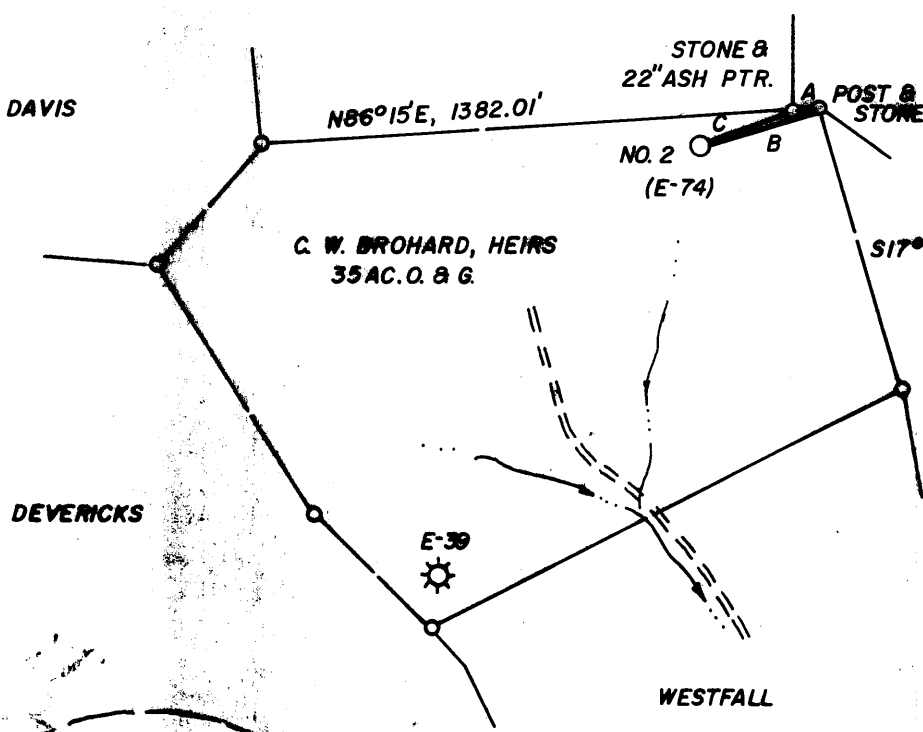
LATITUDE 39° 15' 00"

Janice 2/10/87
" 7/31/88

BROWN

SAVILLE

LONGITUDE 80° 32' 30" 4160'



0.796s
0.58w

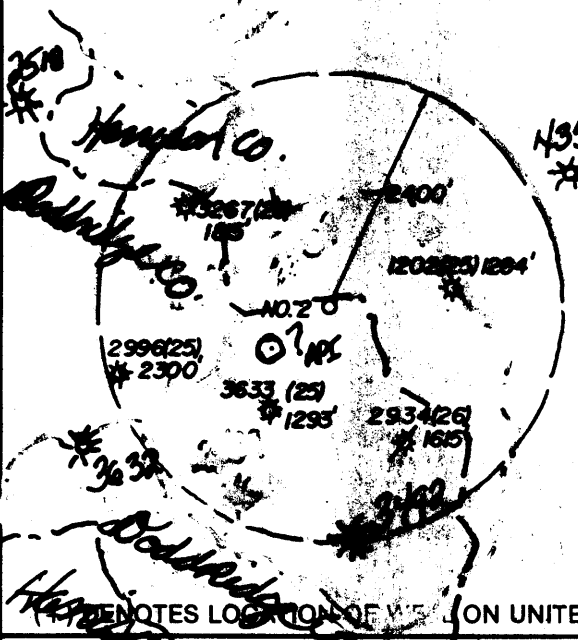
TIE LINES:

- A) N86°15'E, 62.91'
- B) S72°24'W, 328.26'
- C) N69°11'E, 267.58'

WELL REFERENCES:

- N24°30'E, 76' TO 17" BLACK OAK
- N48°W, 105' TO 10" SASSAFRAS

NORTH

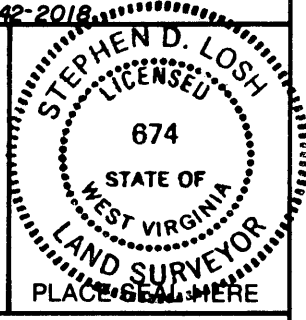


LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

NOTES 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 ROAD INT. 2000' NE. OF LOC. AT ELEV. 1145'

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) [Signature]
 R.P.E. _____ L.L.S. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DECEMBER 15, 1988
 OPERATOR'S WELL NO. E-74
 API WELL NO. BROHARD 2
47-017-03694-7
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1406' WATER SHED TRAUGH FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5'

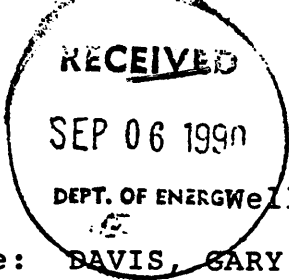
SURFACE OWNER GARY L. DAVIS, ET AL. ACREAGE 35.
 OIL & GAS ROYALTY OWNER C.W. BROHARD, HRS. LEASE ACREAGE 35.
 LEASE NO. _____

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) At temporary plug free standing & Renton Comingle well
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5000' 5167' alexandra & Bunsen

DESIGNATED AGENT Louis Ferrari
 ADDRESS Same Address
 PH: 304-842-8777
 AUG 2 1996

FORM WW-6 H.T. HALL 98673

COUNTY NAME DODD PERMIT 3694



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

Well Operator's Report of Well Work

Farm name: DAVIS, GARY L. ETAL. Operator Well No.: BROHARD 2-E-74

LOCATION: Elevation: 1406.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 4160 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 3050 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EXCEL ENERGY, INC
901 W. MAIN STREET, SUITE 201
BRIDGEPORT, WV 26330-0000

Agent: H. L. BARNETT

Inspector: MIKE UNDERWOOD
Permit Issued: 02/15/89
Well work Commenced: 08/08/90
Well work Completed: 08/16/90
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 5767'
Fresh water depths (ft) 149'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	23'	---	---
8 5/8"	1478'	1478'	375 sks
4 1/2"	5649	5649	605 sks

Salt water depths (ft) _____
1659' (damp)
Is coal being mined in area (Y/N)? No
Coal Depths (ft): 320'-324', 378'-386'

OPEN FLOW DATA

Producing formation Benson-Alexander Pay zone depth (ft) 5228-5578
 Gas: Initial open flow Show MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1589 MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1800 psig (surface pressure) after 48 Hours

Second producing formation _____ Pay zone depth (ft) _____
 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: EXCEL ENERGY, INC
By: H.L. Barnett
Date: September 4, 1990

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

STAGE I (5574'-5580') 14 holes, 270 sks 20/40 sand, 500 gal 15% HCL, 650 BBL 75 Q Foam.

STAGE II (5234'-5248') 12 holes, 350 sks 20/40 sand, 500 gal 15% HCL, 600 BBL 75 Q Foam.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	10	
Sand & Shale			10	119	
Sand			119	154	
Sand & Shale			154	320	1/4" stream wtr. @ 149'
Coal			320	324	
Sand & Shale			324	378	
Coal			378	386	
Sand & Shale			386	1906	Damp @ 1659
Sand			1906	2004	
Sand & Shale			2004	2293	
Big Lime			2293	2378	Oil Odor @ 2350'
Big Injun			2378	2446	
Shale			2446	3033	
Gordon			3033	3062	Gas Show
Sand & Shale			3062	3315	
Shale			3315	5217	
Benson			5217	5250	Gas Show
Shale			5250	5500	
Sand & Shale			5500	5570	Gas Show
Shale			5570	5767	DTD

8297

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

- 1) Well Operator: EXCEL ENERGY, INC. 16570, 14, 252
- 2) Operator's Well Number: E-74 3) Elevation: 1406'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): ALEXANDER
- 6) Proposed Total Depth: 5900' feet
- 7) Approximate fresh water strata depths: 140, 480, 290'
- 8) Approximate salt water depths: NONE
- 9) Approximate coal seam depths: 489-493, 675'-677'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: DRILL & STIMULATE NEW WELL.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		42	30'		30CSR18-11.3
Fresh Water						30CSR18-11.12
Coal						OK-M
Intermediate	8 5/8		23	1450'	1450'	245 sks
Production	4 1/2	J55	10.50	5700'	5700'	688 sks
Tubing						30CSR18-11.1
Liners						

8.297

RECEIVED
FEB 07 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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

(Type)

RECEIVED
FEB 07 1989

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: January 20, 1989
2) Operator's well number E-74
3) API Well No: 47 - 017 - 3694
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 Gary L. Davis, ET.AL
 Address Box 53
Salem, WV 26426
 (b) Name _____
 Address _____
 (c) Name _____
 Address _____

5) (a) Coal Operator:
 Name _____
 Address _____
 (b) Coal Owner(s) with Declaration
 Name NONE
 Address _____
 Name _____
 Address _____

6) Inspector Mike Underwood
 Address Rt. 2, Box 114
Salem, WV 26426
 Telephone (304)- _____

(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 H.L. BARNETT
 Its: PRESIDENT
 Address P.O. BOX 1020
BRIDGEPORT, WV 26330
 Telephone (304) 842-6927

Subscribed and sworn before me this 20th day of January, 19 89

Guendolyn K. Alvarez Notary Public
 My commission expires September 9th, 1998

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

Well Operator: Exploration Partners Producing Company ⁵⁵⁸⁸ 16585 (4) 252

Operator's Well Number: E-74 (Brohard #2) 3) Elevation: 1406'

Well type: (a) Oil ___/ or Gas x/ Issued 07/30/96

(b) If Gas: Production x/ Underground Storage ___/ Expired 07/30/98
Deep ___/ 439 Shallow x/

Proposed Target Formation(s): Alexander 5574'-5580' ~~5580'~~ Brohard 5234'-5248'

6) Proposed Total Depth: 5900'

7) Approximate fresh water strata depths: 140, 480

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 489-493

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

11) Proposed Well Work: Frac (Speechley, Gordon)

12) Set temporary plug for speechley & Gordon remove plug commingle with original production

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill - up (cu. ft),
Conductor	11 3/4		42	30'		
Fresh Water						
Coal					1478'	375 sks
Intermediate	8 5/8		23	1450'	1450'	345 sks
Production	4 1/2	J-55	10.50	5700'	5700'	688 sks
Tubing					5649'	605 sks
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 WW-2B Bond Blanket Agent
(Type)

- 1) Date: June 28, 1996
- 2) Operator's Well Number
Brohard #2 (E-74)
- 3) API Well No: 47- 017 - 3694-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

4) Surface owner(s) to be served:
 (a) Name Gary L. Davis
 Address Box 53
 Salem WV 26426
 (b) Name
 Address
 (c) Name
 Address

5) (a) Coal Operator:
 Name N/A
 Address
 (b) Coal Owner(s) with Declaration
 Name N/A
 Address
 (c) Coal Lessee with Declaration
 Name N/A
 Address

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

RECEIVED
 WV Division of
 Environmental Protection
 JUL 03 1996
 Permitting
 Office of Oil & Gas

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 page 1 through _____ on the above named parties, by:

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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 28 day of June, 1996
Ruth Ann Rigdon Ruth Ann Rigdon Notary Public
 My commission expires July 29, 2002