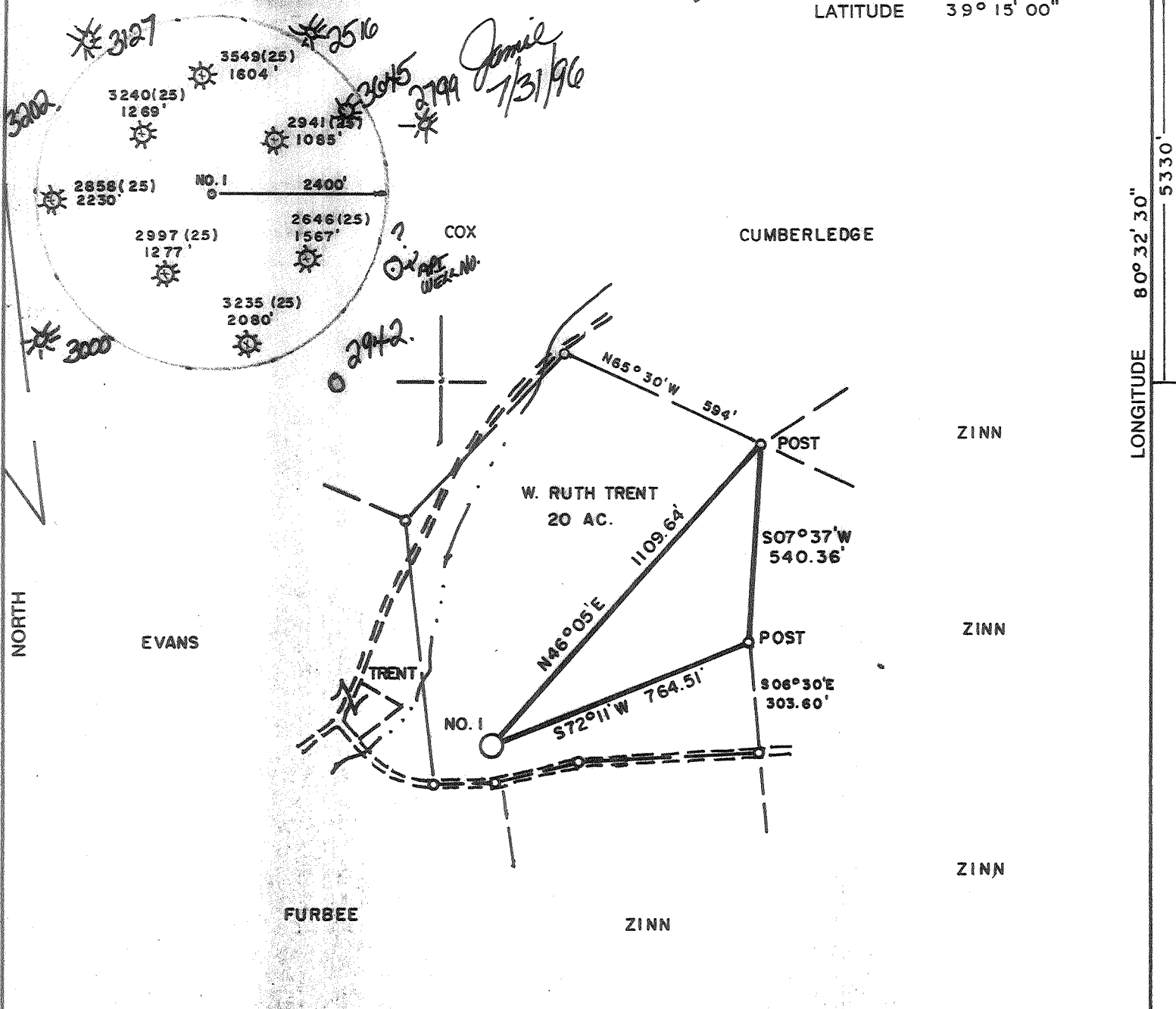


3/15/88

9760

LATITUDE 39° 15' 00"



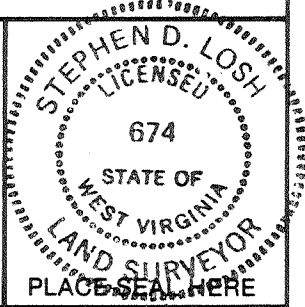
LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

WELL REFERENCES:
 N87°W, 87.50' TO 20" W. OAK
 N82°E, 141.50' TO 12" R. OAK

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 425' W. OF LOCATION ELEV. - 963

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
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DECEMBER 16, 19 87
 OPERATOR'S WELL NO. TRENT NO. 1 E-45
 API WELL NO.

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 990' WATERSHED TRAUGH FORK OF BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min.

SURFACE OWNER W. RUTH TRENT ACREAGE 20 of 21.70
 OIL & GAS ROYALTY OWNER W. RUTH TRENT, et al. LEASE ACREAGE 31.50
 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)
Set temporary plug back down to Balltown level and cement
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5449' *and Alexander & Balltown*

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

LONGITUDE 80° 32' 30" 5330

COUNTY NAME DODD
 PERMIT 3634

FORM WW-6
 H.T. HALL 48673

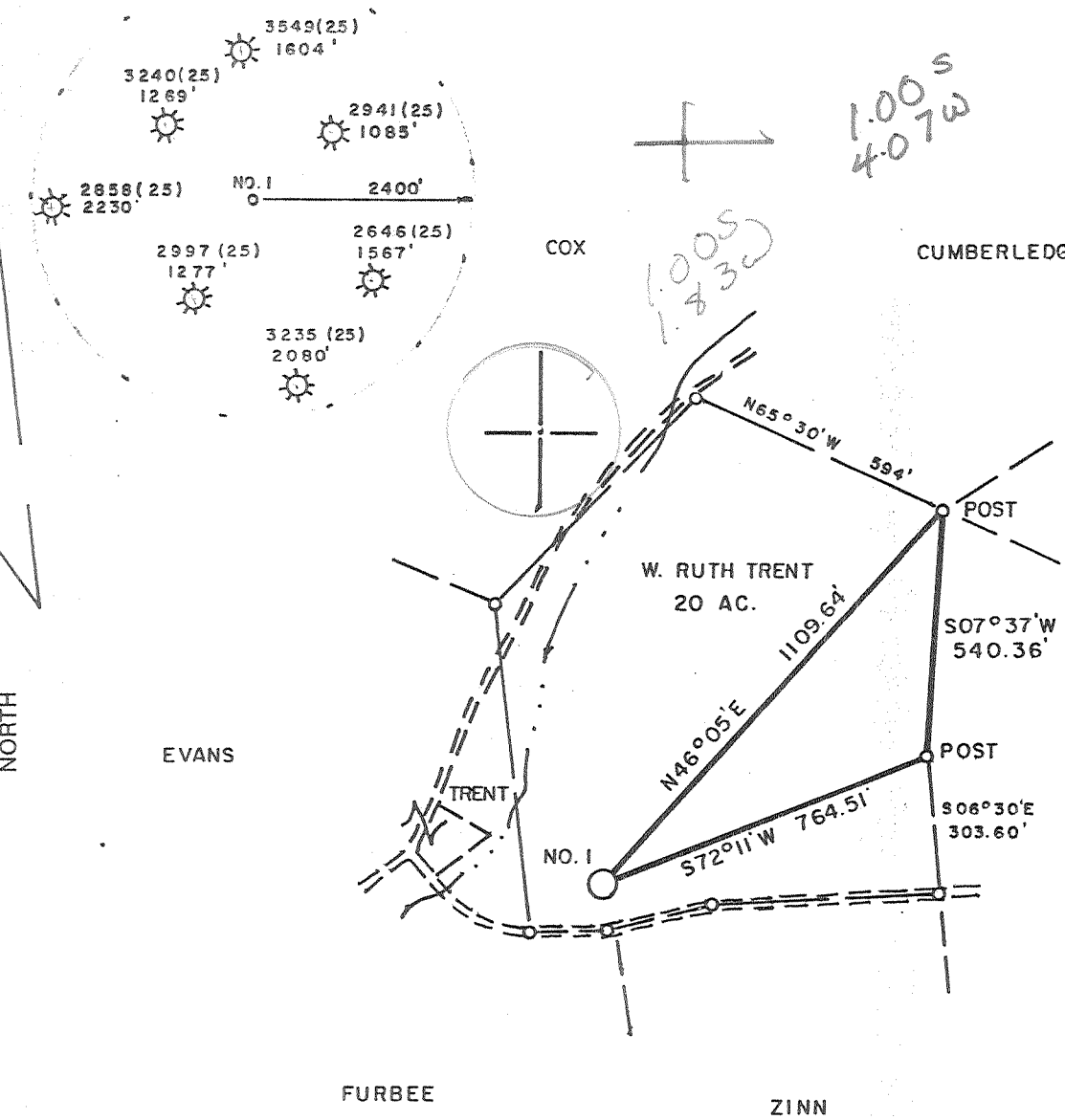
3/15/88

9760'

LATITUDE 39° 15' 00"

LONGITUDE 80° 32' 30"

NORTH



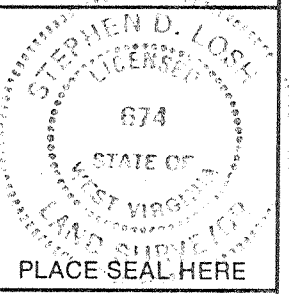
LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

WELL REFERENCES:
 N87°W, 87.50' TO 20" W. OAK
 N82°E, 141.50' TO 12" R. OAK

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 425' W. OF LOCATION ELEV. - 963'

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
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE DECEMBER 16, 19 87
 OPERATOR'S WELL NO. TRENT NO. 1 E-15
 API WELL NO.

47 - 017 - 3634
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 990' WATERSHED TRAUGH FORK OF BUCKEYE CREEK
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 952 1233 VADIS NE
 SURFACE OWNER W. RUTH TRENT ACREAGE 20 of 21.70
 OIL & GAS ROYALTY OWNER W. RUTH TRENT, et al. LEASE ACREAGE 31.50
 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 ALEXANDER ESTIMATED DEPTH 5600'
 WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS 901 W. MAIN ST. ADDRESS 901 W. MAIN ST.
 BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

MAR 18 1988

6-6 Meathouse Fork-Bristol (146)

COUNTY NAME PERMIT

RECEIVED
WV Division of
Environmental Protection

26-JUL-96

API # 47- 17-03634 F

JAN 07 1998

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: TRENT, W. RUTH Operator Well No.: TRENT #1-E-45

LOCATION: Elevation: 990.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 5330 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude 9760 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Exploration Partners Prod
P.O. Box 930
Bridgeport, WV 26330-1245

Agent: Louis A. Ferrari

Inspector: MIKE UNDERWOOD

Permit Issued: 07/30/96

Well Work Commenced: 07/21/97

Well Work Completed: 07/23/97

Verbal Plugging

Permission granted on: _____

Rotary x Cable _____ Rig

Total Depth (feet) _____

Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____

Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	SEE ORIGINAL WR-35		
	NO ADDITIONAL CASING RUN		
	(STIMULATE UPPER PAYS)		

OPEN FLOW DATA

Producing formations Speechley, Fifth/Bayard Pay zone depth (ft) 2807-3530

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/

Final open flow 198 MCF/d Final open flow _____ Bbl/

Time of open flow between initial and final tests _____ Hour

Static rock pressure 330 psig (surface pressure) after _____ Hour

Second producing formation _____ Pay zone depth (ft) _____

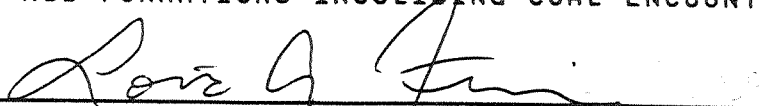
Gas: Initial open flow _____ MCF/d Oil: Initial Open flow _____ Bbl/

Final open flow _____ MCF/d Final open flow _____ Bbl/

Time of open flow between initial and final tests _____ Hour

Static rock pressure _____ psig (surface pressure) after _____ Hour

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


For: EXPLORATION PARTNERS LLC

By: Louis A. Ferrari
Date: November 18, 1997

JAN 09 1998

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

STAGE I (3313-3530) 18 HOLES, 500 GAL 15% HCL, 31,000# SAND, 190 BBL X-LINK GELLED
H2O, 37 MSCF N2 ASSIST.

STAGE II (2807-2952) 14 HOLES, 500 GAL 15% HCL, 33,000# SAND, 175 BBL X-LINK GELLE
H2O, 45 MSCF N2 ASSIST.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> Including indication of all fresh and salt water, coal and gas



IV-35
(Rev 8-81)

Date 7-1-88
Operator's
Well No. E-45
Farm TRENT
API No. 047-017 - 3634

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: 990 Watershed TRAUGH FORK OF BUCKEYE CREEK
District: GREENBRIER County DODDRIDGE Quadrangle BIG ISAAC

COMPANY EXCEL ENERGY, INC.

ADDRESS P.O. BOX 1020, BRIDGEPORT, WV26330

DESIGNATED AGENT H. L. BARNETT

ADDRESS P.O. BOX 1020, BRIDGEPORT, WV26330

SURFACE OWNER RUTH TRENT

ADDRESS _____

MINERAL RIGHTS OWNER TRENT ET AL.

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____

MIKE UNDERWOOD ADDRESS RT. 2 BOX 114, SALEM

PERMIT ISSUED 3/16/88

DRILLING COMMENCED 6/15/88

DRILLING COMPLETED 6/22/88

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.			
13-10"	20	20	SANDED IN
9 5/8			
8 5/8	1057	1057	C.T.S.
7			
5 1/2			
4 1/2	5333	5333	575 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON, ALEXANDER Depth 5600' feet

Depth of completed well 5417' feet Rotary x / Cable Tools _____

Water strata depth: Fresh 50 feet; Salt _____ feet

Coal seam depths: 336-339 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation BENSON Pay zone depth 4895-4910 feet

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

Final open flow (860) Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1410 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation ALEXANDER Pay zone depth 5210-5275 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

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

(Continue on reverse side)

NOV 18 1988

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

STAGE I - ALEXANDER PERFS. 5188-5243; 50000# SAND: 700 BBL 75Q FOAM

STAGE II- BENSON PERFS. 4875-4890; 50000# SAND: 700 BBL 75Q 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	5	
SHALE			5	50	
SAND			50	135	
SHALE			135	227	½" STREAM F.W.
SAND			227	276	
SAND & SHALE			276	336	
COAL (SOLID)			336	339	
SAND & SHALE			339	1025	
SAND			1025	1095	
SHALE & SAND			1095	1918	
LITTLE LIME			1918	1928	
SHALE			1928	1964	
BIG LIME			1964	2010	
BIG INJUN			2010	2105	
SAND & SHALE			2105	2670	
GORDON			2670	2720	
SAND & SHALE			2720	4895	
BENSON			4895	4910	GAS SHOW ✓
SAND & SHALE			4910	5210	
ALEXANDER			5210	5275	GAS SHOW ✓
SHALE			5275	<u>5417</u>	

(Attach separate sheets as necessary)

EXCEL ENERGY, INC.

Well Operator

By: H. L. Barnett H. L. BARNETT

Date: 7-1-88

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."

NOV 18 1988

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

Issued 09/30/96
Expires 07/30/98

22260

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

Operator's Well Number: E-45 (Trent) 3) Elevation: 990

Well type: (a) Oil ___/ or Gas x/

(b) If Gas: Production x/ Underground Storage ___/
Deep ___/ Shallow x/

5) Proposed Target Formation(s): ALEXANDER ⁴³⁹ 5188' - 5243' Benton 4875' - 4890'

6) Proposed Total Depth: ~~5500~~ 5417'

7) Approximate fresh water strata depths: 190, 636

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 336-339, 601-606, 1005

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

11) Proposed Well Work: FRAC (SPEECHLEY, BALLTOWN, FIFTH)

12) Set temporary plug frac → → Remove plug coming with above.
CASING AND TUBING PROGRAM

RECEIVED
WV Division of
Environmental Protection
Permitting
Office of Oil & Gas

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill - up (cu. ft)
Conductor	11 3/4			30	30	CTS
Fresh Water						
Coal					1057'	CTS
Intermediate	8 5/8			1100	1100	CTS
Production	4 1/2			5500	5500	60 SKS
Tubing					5333'	575 Pkg
Liners						Est Top @ 1300'-1400'

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
[] Fee(s) paid: [] Well Work Permit [] Reclamation Fund [] WPCP Agent
[] Plat [] WW-9 [] WW-2B [] Bond Blanket (Type)

JUL 03 1996

Form WW2-A
(10-91)

Permitting
Office of Oil & Gas

- 1) Date: June 13, 1996
- 2) Operator's Well Number
E-45 (Trent)
- 3) API Well No: 47- 017-3634-F
state-county-permit

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

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

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

4) Surface owner(s) to be served:

(a) Name W. Ruth Trent
Address Rt. 3 Box 4
Salem WV 26426

(b) Name
Address

(c) Name
Address

5) (a) Coal Operator:

Name
Address

(b) Coal Owner(s) with Declaration
Name Willis G. Tetrick, Jr.
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
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 13 day of June, 1996

Ruth Ann Ridon Ruth Ann Ridon Notary Public

My commission expires July 29, 2002



1) Date: February 15, 1988
 2) Operator's Well No. E-45
 3) API Well No. 47 017 3634
 State County Permit

7/85
RECEIVED
FEB 29 1988

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

- 4) WELL TYPE: A Oil / Gas / B (if "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 990' Watershed: Traugh Fork of Buckeye Creek
 District: Greenbrier 4 County: Doddridge 017 Quadrange: Big Isaac 7.5 252
- 6) WELL OPERATOR Excel Energy, Inc. CODE: 16570 7) DESIGNATED AGENT H. L. Barnett
 Address P.O. Box 1020 Address P.O. Box 1020
Bridgeport, WV 26330 Bridgeport, WV 26330
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Mike Underwood
 Address Rt. 2 Box 114
Salem, WV 26426
- 9) DRILLING CONTRACTOR: Name Unknown
 Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander
- 12) Estimated depth of completed well, 5,500 feet
- 13) Approximate strata depths; Fresh, 190, 636' feet; salt, none feet.
- 14) Approximate coal seam depths: 340, 327, 1005, 601-606' Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM 585'-588' From Deduced Log 2640, 2858, 2941, 2997, 3240

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	113/4			X		30	30	<u>cts</u>	Kinds
Fresh water									
Coal								<u>cts</u>	Sizes <u>38CSR18-11.3</u>
Intermediate	85/8			X		1100	1100	To Surface	<u>38CSR18-11.22</u>
Production	41/2			X		5500	5500	60 sks	Depths set <u>38CSR18-11.1</u>
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3634 March 16 19 88
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires March 16, 1990 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>[Signature]</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>6</u>	WPCT: <u>[Signature]</u>	SEE: <u>[Signature]</u>	Other: _____
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