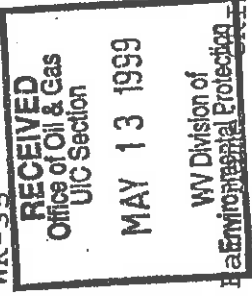








WR-35



23-Jul-97  
API # 47- 17-03425 F  
Reviewed

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

Well Operator's Report of Well Work

WV Division of  
Environmental Protection

ELLIP, ELMER

Operator Well No.: W-I E-916

LOCATION: Elevation: 1,261.00 Quadrangle: NEW MILTON  
District: NEW MILTON County: DODDRIDGE  
Latitude: 2800 Feet South of 39 Deg. 10Min. 0 Sec.  
Longitude 3000 Feet West of 80 Deg. 40 Min. 0 Sec.

Company: EXCEL ENERGY, INC  
P. O. BOX 1020  
BRIDGEPORT, WV 26330-1020

Agent: HARRY L. BARNETT

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/23/97  
Well work Completed: 08/07/97  
Verbal Plugging: 08/07/97  
Permission granted on:  
Rotary Cable x Rig  
Total Depth (feet) 2,536'  
Fresh water depths (ft) N/A.

Salt water depths (ft) N/A

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

OPEN FLOW DATA

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8 5/8"	420'	420'	to surface
4 1/2"		2536'	125 sks

Producing formation Injun  
 Gas: Initial open flow None MCF/d Oil: Initial open flow (ft) 2450-2500  
 Final open flow MCF/d Final open flow 6 Bbl/d  
 Time of open flow between initial and final tests Bbl/d  
 Static rock Pressure 38 psig (surface pressure) after 12 Hours  
 Second producing formation N/A 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 Bbl/d  
 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* H.L. Barnett  
Date: May 13, 1999

Dodd 3425F

MAY 24 1999

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

STAGE I    Injun    2450'-2500' (37 holes) Frac using 100 bbls H2O, 21,000# 20/40 sand and 200 gal HCL.

WELL LOG

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

Well was drilled in November, 1986. Excel purchased the well in October, 1997. The well log information is not available. There may be one on file at the DOE.

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

1) Well Operator: Excel Energy, Inc. 3) Elevation: 1261'  
 2) Operator's Well Number: E-916  
 4) Well type: (a) Oil    / or Gas x /

(b) If Gas: Production x / Underground Storage    /  
 Deep    / Shallow x /  
Issued 07/23/97  
Expires 07/23/99

24017

Proposed Target Formation(s): Injun  
 Proposed Total Depth: 2,650 feet  
 Approximate fresh water strata depths: N/A  
 Approximate salt water depths: N/A  
 Approximate coal seam depths: N/A  
 9) Does land contain coal seams tributary to active mine? Yes    / No x /  
 10) Proposed Well Work: Fracture  
 11)     
 12)   

**RECEIVED**  
 WV Division of  
 Environmental Protection  
 JUL 19 1997

**CASING AND TUBING PROGRAM**

*Excludes CEMENT*

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	Left in well (cu. ft.)
Conductor	Size Grade	Weight per ft. drilling	
Fresh Water	8 5/8" J-55	20#	420' 420' 125 sacks
Coal			
Intermediate			
Production	4 1/2" J-55	10.5#	2,650' 2,650' 100 sks
Tubing			
Liners			

PACKERS : Kind     
 Sizes     
 Depths set   

2036/203

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



RECEIVED

1) Date: July 15, 1997  
Operator's well number  
2) Crislip W-I E-916  
3) API Well No: 47 - 017 - 3425-F  
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
OFFICE OF DIVISIONS 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 Elmer Crislip  
Address Rt. 3, Box 45  
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

Name  
Address

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

6) Inspector Mike Underwood  
Address Rt. 2, Box 35  
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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 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:

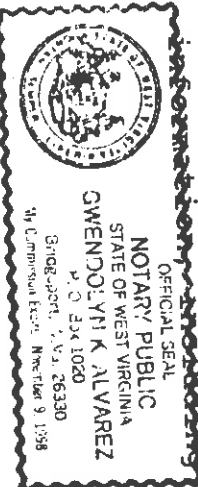
personal Service (Affidavit attached)

X Certified Mail (Postmarked postal receipt attached)

I have read and understand Chapter 22-6 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. H.L. Barnett  
By: H.L. Barnett  
Its: President  
Address PO Box 1020  
Bridgport, WV 26330  
Telephone (304) 842-6927 July 1997

Subscribed and sworn before me this 15th day of July, 1997  
My commission expires November 9, 1998  
Notary Public

- 1) Date: March 4, 19 85  
 2) Operator's Well No. E. Crislip W-1  
 3) SIC Code \_\_\_\_\_  
 4) API Well No. 47 State 017 County 3425-LF Permit  
 5. UIC Permit No. \_\_\_\_\_

STATE OF WEST VIRGINIA  
(CORRECTED PERMIT NO.)

## NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION

for the  
 OFFICE OF OIL AND GAS, DEPARTMENT OF MINES, AND FOR  
 (CLASS II WELLS ONLY)

## THE DIVISION OF WATER RESOURCES, DEPARTMENT OF NATURAL RESOURCES

- 6) WELL TYPE: Liquid injection  Gas injection (not storage) \_\_\_\_\_ Waste disposal \_\_\_\_\_  
 7) LOCATION: Elevation: 1261 Watershed: Brushy Fork 510  
 District: New Milton County: Doddridge Quadrangle: New Milton 7.5'  
 8) WELL OPERATOR Hobson Petroleum Corp. 9) DESIGNATED AGENT Janis Peacock  
 Address G-2367 S. Linden Road Address 1014 Kanawha Blvd., East  
Flint, MI 48504 Charleston, WV 25326  
 10) OIL & GAS INSPECTOR TO BE NOTIFIED Phone: 346-0611  
 Name Mike Underwood 11) DRILLING CONTRACTOR:  
 Address Route 2, Box 114 Name Unknown  
Salem, WV 26426 Address \_\_\_\_\_
- 12) PROPOSED WELL WORK: Drill XXX / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate \_\_\_\_\_  
 Plug off old formation  Perforate new formation  Convert   
 Other physical change in well (specify) \_\_\_\_\_
- 13) GEOLOGICAL TARGET FORMATION, Mississippian, Greenbrier, Big Depth 2445 feet (top) to 2495 feet (bottom)  
 14) Estimated depth of completed well, (or actual depth of existing well) 2650 ft. Injun  
 15) Approximate water strata depths; Fresh, 150 feet; salt, 1700 feet.  
 16) Approximate coal seam depths: No coal seams within project area based on well records  
 17) Is coal being mined in the area? Yes  No   
 18) Virgin reservoir pressure in target formation 900-975 psig. Source Well Records  
 19) Estimated reservoir fracture pressure +2300 psig (BHFP)  
 20) MAXIMUM PROPOSED INJECTION OPERATIONS: Volume per hour: 10.5 bbls Bottom hole pressure +2200 psig (See  
 21) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES: Treated fresh water and/or  
brine water from Salt Sands (1500-1800 feet).  
 22) FILTERS (IF ANY): Cartridge Type (5-10 micron) filters  
 23) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL: Injected water and water  
in tubing-casing annulus (i.e. behind packer) treated with corrosion and scale inhibitors.  
 24) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		PACKERS
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	8 5/8"	J55	20#	X	420'	125 sacks Injection packer
Fresh water						
Coal						
Intermediate						
Production	4 1/2"	J55	10.5#	X	2650'	4 1/2" on 2 3/8" tubing
Tubing	2 3/8"	J55	4.7#	X	2450'	100 sacks set on packer + 2450'
Liners						Perforations: Top _____ Bottom _____

- 25) APPLICANT'S OPERATING RIGHTS were acquired from Elmer and Roxie Crislip  
 by deed  lease  other contract \_\_\_\_\_ / dated April 4, 19 62, of record in the  
Doddridge County Clerk's office in Book 75 at page 15

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

NOTE: Maximum pressure will be maintained 50-100 psi below fracture pressure as determined by injection step rate test.



OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-017-3425-T1

March 29 19 85  
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 (if required) construction and reclamation plan, subject to any modifications and conditions specified below.

Permit expires March 29, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fee:
<i>Blanket</i>	<input checked="" type="checkbox"/>	<i>MY</i>	<i>MY</i>	<i>A11454</i>

*Shadone Strait MY*  
Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-3(b) is to record the dates of certain occurrences and any follow-up inspections.

Date \_\_\_\_\_ Date(s) \_\_\_\_\_

- Application received \_\_\_\_\_ Follow-up inspection(s) \_\_\_\_\_
- Well work started \_\_\_\_\_ " " \_\_\_\_\_
- Total depth reached \_\_\_\_\_ " " \_\_\_\_\_
- Well Record received \_\_\_\_\_ " " \_\_\_\_\_
- Reclamation completed \_\_\_\_\_ " " \_\_\_\_\_
- OTHER INSPECTIONS \_\_\_\_\_

Reason: \_\_\_\_\_  
Reason: \_\_\_\_\_

File