

LATITUDE 39-40-00

SCALED COOR.:

14,700' SOUTH
1,635' WEST

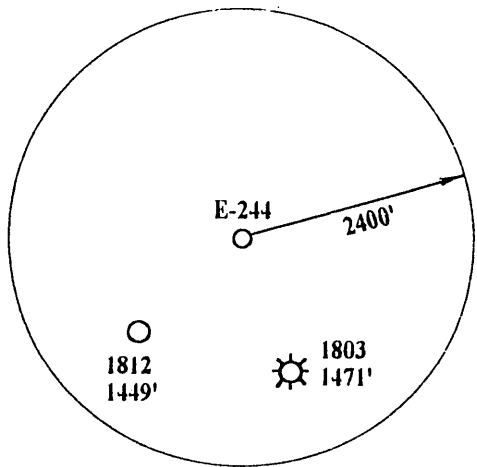
NAD 27 WV NORTH SPC:

E-244 = 411,925.74'
1,705,131.42'

LONGITUDE 80-32-30

R. H. RUSH & SUSAN K. DEBOLT
15.24 AC. +/-

D. L. WADE
2.76 AC. +/-



WELL REFERENCES:

N22-00W, 196.00' TO 14" HICKORY
S65-00E, 121.50' TO POWER POLE

NAD 27:

39-37-34.53
80-32-48.71

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

FILE NUMBER: _____
DRAWING NUMBER: EXCRUSH1.PCS
SCALE: 1" = 100'
MINIMUM DEGREE OF ACCURACY: 1 IN 200
PROVEN SOURCE OF ELEVATION: DGPS SURVEY 11/29/00
SUBMETER SYSTEM

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]
STEPHEN D. LOSH, P.S. #674

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FORM WW-6 #10 McJUNKIN ROAD
NITRO, WV 25143-2506

LAND SURVEYING SERVICES
21 CEDAR LANE, BRIDGEPORT, WV 26330
PHONE: 304-842-2018 OR 842-5762

DATE: NOVEMBER 29, 2000

OPERATORS WELL NO.: E-244

API WELL NO. 47 - 103 - 01819
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1114.35' WATERSHED NOB FORK
DISTRICT CENTER COUNTY WETZEL
QUADRANGLE LITTLETON LEASE NUMBER _____

SURFACE OWNER RONALD H. RUSH & SUSAN K. DEBOLT ACREAGE 15.24
OIL & GAS ROYALTY OWNER RONALD H. RUSH & SUSAN K. DEBOLT LEASE ACREAGE 15

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION BAYARD PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
ESTIMATED DEPTH 3450'

WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT
ADDRESS P. O. BOX 1020 BRIDGEPORT, WV 26330 ADDRESS P. O. BOX 1020 BRIDGEPORT, WV 26330

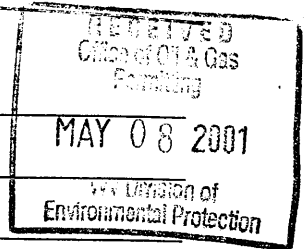
COUNTY NAME WETZEL
PERMIT 1819

6-6 45 FEB 02 2001

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

Reviewed *ALB*

Well Operator's Report of Well Work



Farm Name: Rush, Ronald & S. DeBolt Operator Well No: Rush E-244

LOCATION: Elevation: 1,114.35' Quadrangle: Littleton

District: Center County: Wetzel
Latitude: 14,700' Feet South of 39 Deg. 40 Min. 00 Sec.
Longitude: 1,635' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: EXCEL ENERGY, INC.

	Casing & Tubing	Used in Drilling	Left in Hole	Cement fill Up Cu. Ft.
Address: <u>PO Box 1020</u>				
<u>Bridgeport, WV 26330</u>	9 5/8"	210'	210'	To Surface
Agent: <u>H.L. Barnett</u>	7"	2,074'	2,074'	To Surface
Inspector: <u>Randal Mick</u>	4 1/2"	3,409'	3,409'	3,409'-2,000'
Date Permit Issued: <u>01/30/2001</u>				
Date Well Work Commenced: <u>02/27/2001</u>				
Date Well Work Completed: <u>03/09/2001</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): <u>3,470'</u>				
Fresh Water Depth (ft.): <u>30'</u>				
Salt Water Depth (ft.): <u>1,635' & 1,653'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>385', 525', 760', 830', 865' & 1,585'</u>				

00

OPEN FLOW DATA

Producing formation <u>Comingled</u>		Pay zone depth (ft)	
<u>Bayard, Gordon, 30', 50' & Injun</u>		<u>3,167'-3,290'</u>	<u>Bayard</u>
		<u>2,931'-3,050'</u>	<u>Gordon</u>
		<u>30'/50' 2,691'-2,861'</u>	<u>Injun</u>
Gas: Initial open flow	<u>Show</u> MCF/d		
Final open flow	<u>300</u> MCF/d		
Time of open flow between initial and final tests		<u>72</u> Hours	
Static Rock Pressure	<u>625</u> psig (surface pressure) after	<u>20</u> Hours	
Second producing formation <u>---</u>		Pay zone depth (ft) <u>---</u>	
Gas: Initial open flow	<u>---</u> MCF/d		
Final open flow	<u>---</u> MCF/d		
Time of open flow between initial and final tests		<u>---</u> Hours	
Static Rock Pressure	<u>---</u> psig (surface pressure) after	<u>---</u> Hours	

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

Signed:

By: *H.L. Barnett*
Date: May 7, 2001

MAY 18 2001

WET 1819

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

STAGE I Bayard 3,167'-3,290' (8 shots) Fraced w/420 bbls H2O, 30,000# sand and 58,500 SCF N2.
 STAGE II Gordon 2,931'-3,050' (11 shots) Fraced w/490 bbls H2O, 30,000# sand and 35,500 SCF N2.
 STAGE III 30', 50' 2,691'-2,861' (11 shots) Fraced w/425 bbls H2O, 29,000# sand and 36,000 SCF N2.
 STAGE IV Injun 2,284'-2,339' (8 shots) Fraced w/450 bbls H2O and 20,000# sand. (No. SCF N2).

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal oil and gas
Soil & Sand			0	20	
Sand & Shale			20	385	Fresh Water @ 30'
Coal			385	388	
Red Rock & Shale			388	470	
Sand & Shale			470	525	
Coal			525	527	
Sand & Shale			527	760	
Coal			760	764	
Sand & Shale			764	830	
Coal			830	834	
Sand & Shale			834	865	
Coal			865	871	
Sand & Shale			871	1585	
Coal			1585	1587	
Sand & Shale			1587	3470	Salt Water @ 1,635' & 1,653'
				3470	TD