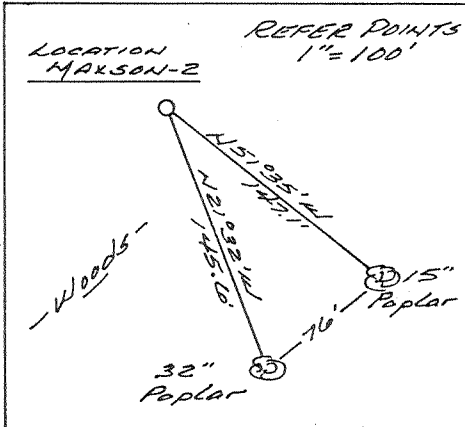


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS



FILE NO. 865.01
 DRAWING NO. 87-6
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1' in 200'
 PROVEN SOURCE OF ELEVATION Spot Elev. - 981 N.E. of Location.

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) Richard S. Ostrander
 R.P.E. _____ L.L.S. 555
Buckhannon, WV

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE 10 December, 19 87
 OPERATOR'S WELL NO. MAXSON-2
 API WELL NO.

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 STATE COUNTY PERMIT 47 017 3619

LOCATION: ELEVATION 1265' WATER SHED Greenbriar Creek
 DISTRICT Greenbrier 4 COUNTY Doddridge
 QUADRANGLE Big Isaac 252 1232 Vadis NC

SURFACE OWNER Leon Stout ACREAGE 13.33
 OIL & GAS ROYALTY OWNER Cornelius Maxson, Heirs LEASE ACREAGE 65
 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 5800'
 WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY L. BARNETT
 ADDRESS 901 W. Main St., Suite 201 ADDRESS - Same -
Bridgeport, WV 26330 1028

LONGITUDE 82°52'00"

COUNTY NAME

PERMIT

6-6 Zionia

(145)



IV-35
(Rev 8-81)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date January 15th, 1987
Operator's Well No. E-47
Farm Maxson E-47
API No. 47 - 017 - 3619

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 ___ / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: 1265 Watershed Greenbrier 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 Denver & Leon Stout
ADDRESS Rt. 1, Salem, WV 26426
MINERAL RIGHTS OWNER Cornelius Maxson Heirs
ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK _____
Mike Underwood ADDRESS Rt. 2 Box 114, Salem, WV 26426
PERMIT ISSUED December 14, 1987
DRILLING COMMENCED December 31, 1987
DRILLING COMPLETED January 10, 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.			
13-10"	CONDUCTOR		
9 5/8			
8 5/8	1100	1100	CTS
7			
5 1/2			
4 1/2	5656	5656	250 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson, Alexander Depth 5800 feet
Depth of completed well 5644 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 199 feet; Salt 2935 feet
Coal seam depths: 940-945 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5513-5582 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 1517 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure 1800 psig (surface measurement) after _____ hours shut in
(If applicable due to multiple completion--)

Second producing formation Benson Pay zone depth 5204-5209 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow Comingled Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

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

(Continue on MAY 13 1988)

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

STAGE #1 Perf. 5513-5582 Alexander

Fraced Using: 10,000#80/100, 27,000#20/40, 150 BBL 75Q Foam

STAGE #2 Perf. 5204-5209 Benson

Fraced Using: 10,000#80/100, 40,000#20/40, 175 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
Substructure			0	10	
Shale & Red Rock			10	199	
Sand & Shale			199	720	
Sand			720	775	
Sandy Shale			775	901	
Sand			901	940	
Coal (Solid)			940	945	
Shale & Red Rock			945	1149	
Sand & Shale			1149	2225	
Lime			2225	2250	
Sand			2250	2260	
Big Lime			2260	2362	
Big Injun			2362	2457	
Sand & Shale			2457	2900	
Sandy Shale			2900	3050	
Shale & Sand			3050	5198	
Benson Sand			5198	5220	
Sand & Shale			5220	5500	
Alexander Sand			5500	5600	
Shale			5600	5744	
DTD				5744	
<input checked="" type="checkbox"/> <u>Gamma Ray Log</u>					
Big Lime			2250	2300	
Big Injun			2300	2398	
50'			2902	2922	
Gordon			3020	3033	
Benson			5198	5210	
Alexander			5531	5582	
DTD				5744	
LTD				5637	

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Excel Energy, Inc.
Well Operator

By: H. L. Barnett H. L. Barnett, President
Date: January 15th, 1987

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."

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1) Date: December 10th, 19 87
 2) Operator's Well No. E-47 Maxson # 2
 3) API Well No. 47 State 017 County 3619 Permit

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow X /)
- 5) LOCATION: Elevation: 1,265' / Watershed: Greenbrier Creek
 District: Greenbrier 4 / County: Doddridge 017 / Quadrangle: Big Isaac 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 9) DRILLING CONTRACTOR: Name Unknown
 Address Rt. 2 Box 114 / Address _____
Salem, WV 26426 / _____
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate X /
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander 439
- 12) Estimated depth of completed well, 5,800' feet
- 13) Approximate trata depths: Fresh, 80,305,425-27 feet; salty none feet.
- 14) Approximate coal seam depths: 355-58,479-83,600-02 Is coal being mined in the area? Yes _____ / No X /
- 15) CASING AND TUBING PROGRAM From Doddridge Co, 585, 1187, 2357, 2862, 3127

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'		Kinds
Fresh water									<u>3805R18-11.3</u>
Coal									Size <u>3805R18-11.2.2</u>
Intermediate	85/8		20	X		1100'	1100'	CTS	<u>15.01 Requirement</u>
Production	41/2		10.5	X		5800'	5800'	<u>500 SKS</u>	<u>15.01 Requirement</u>
Tubing									<u>3805R18-11.1</u>
Lin.									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3619 Date December 14 19 87

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 December 14, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPOP	Site	Other
				<u>240</u>			
				<u>1563</u>			

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

John Johnston by Margaret J. Hesse
 Director, Division of Oil and Gas

File