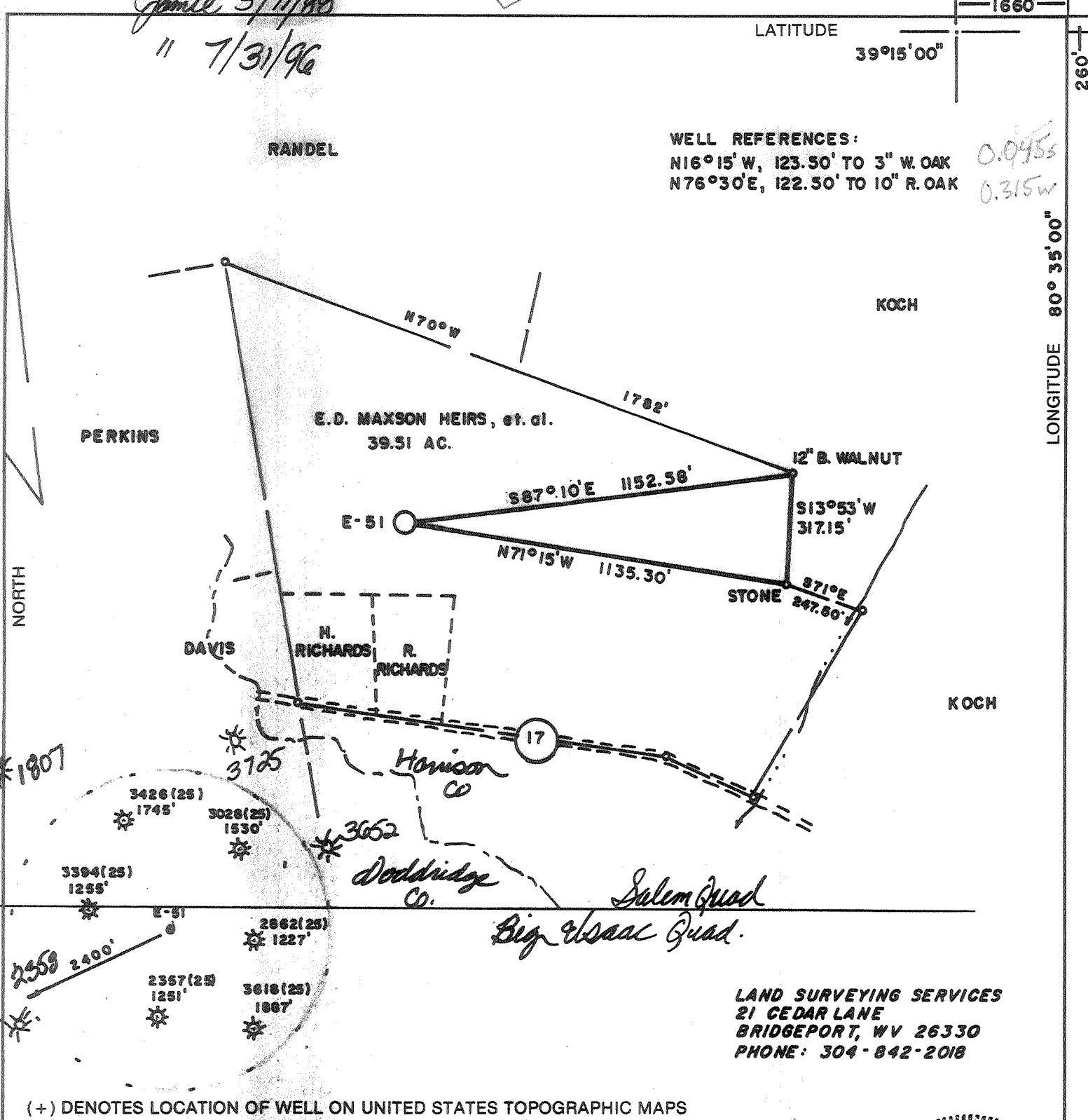


*Janie 5/11/88*  
*" 7/31/96*

LATITUDE 39°15'00"  
 LONGITUDE 80°35'00"

WELL REFERENCES:  
 N16°15' W, 123.50' TO 3" W. OAK  
 N76°30' E, 122.50' TO 10" R. OAK

*0.0455*  
*0.315w*

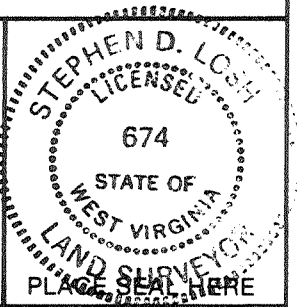


LAND SURVEYING SERVICES  
 21 CEDAR LANE  
 BRIDGEPORT, WV 26330  
 PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 850' S.W. OF LOCATION  
 ELEV. 948'

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. 674  
**STEPHEN D. LOSH**



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 22, 19 88  
 OPERATOR'S WELL NO. E-51  
 API WELL NO. 47-017-036407

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 1072' WATERSHED GREENBRIER CREEK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5 min.

SURFACE OWNER NEVA MARTIN DAVID HALL (LAND CONTRACT) ACREAGE 36.81  
 OIL & GAS ROYALTY OWNER E.D. MAXSON HEIRS, et. al. LEASE ACREAGE 39.51  
 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 face below, Bradford, Speechley, Calltown*

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5500'  
*Remove plug commingle well*

DESIGNATED AGENT Louis Ferrari  
 ADDRESS Same Address  
 PH: 304-842-8777  
*Benson & Alexander*

LONGITUDE 80° 35' 00"

COUNTY NAME Dodd

PERMIT 3646

FORM WW-6

Exploration Partners & Producing Co.  
 P.O. box 1245  
 Bridgeport, wv.a 26330-1245

AUG 22 1996  
 1996

Janil 5/11/88

LATITUDE

39°15'00"

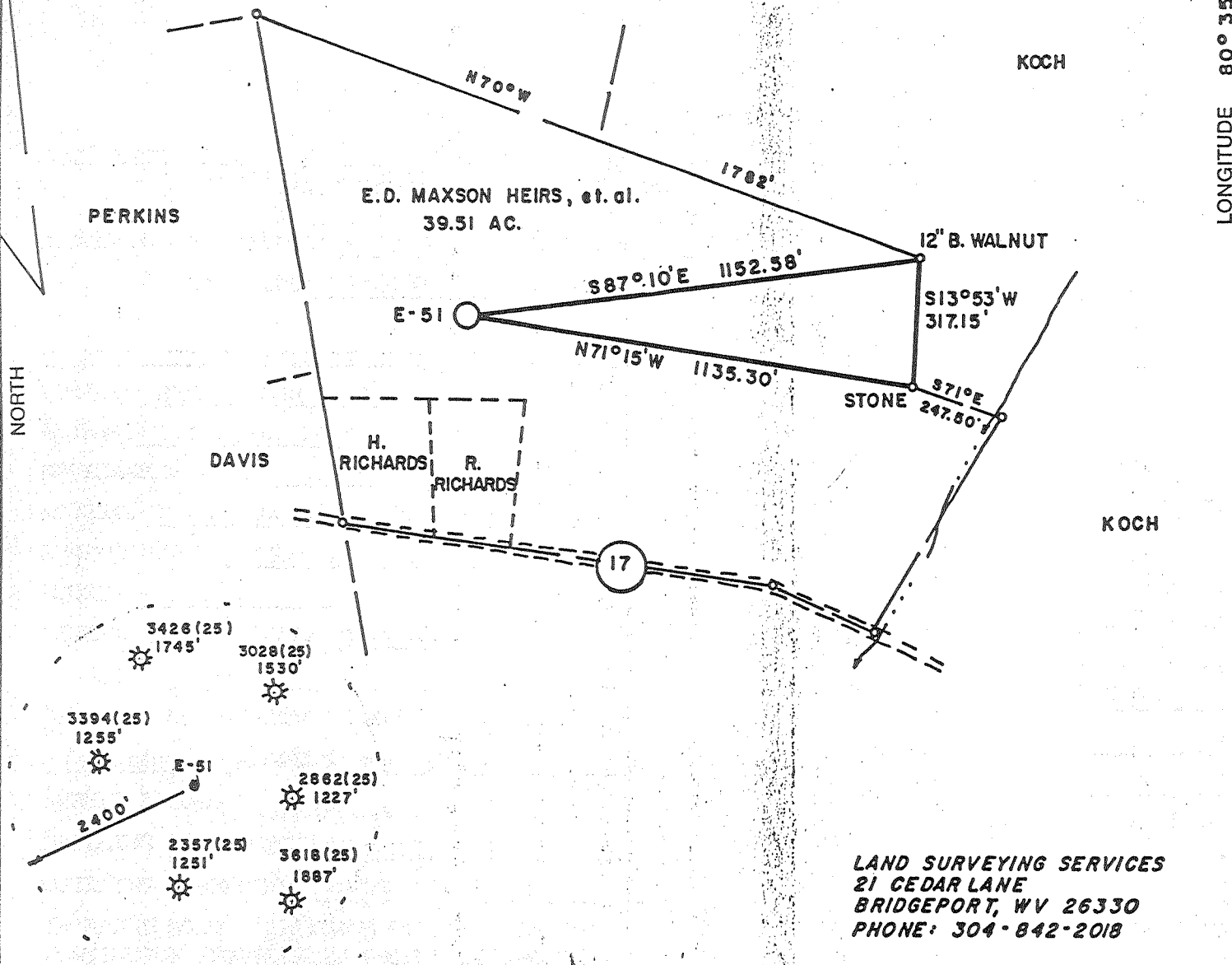
1660'

LONGITUDE 80°35'00"

RANDEL

WELL REFERENCES:  
N16°15' W, 123.50' TO 3" W. OAK  
N76°30' E, 122.50' TO 10" R. OAK

8.50  
8.30

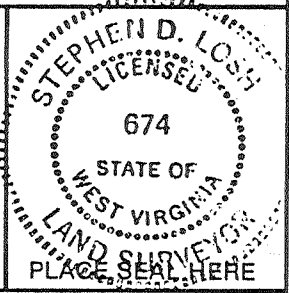


LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION RD. INTER. 850' S.W. OF LOCATION  
 ELEV. 948'

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. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



DATE APRIL 22, 19 88  
 OPERATOR'S WELL NO. E-51  
 API WELL NO.

47 - 017 - 3640  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1072' WATER SHED GREENBRIER CREEK  
 DISTRICT GREENBRIER COUNTY DODDRIDGE  
 QUADRANGLE BIG ISAAC 7.5 min. 252 123 a Vadis NC  
 SURFACE OWNER NEVA MARTIN DAVID HALL (LAND CONTRACT) ACREAGE 36.81  
 OIL & GAS ROYALTY OWNER E.D. MAXSON HEIRS, et. al. LEASE ACREAGE 39.51  
 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 \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 3500'  
 WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.O. BOX 1020 ADDRESS P.O. BOX 1020  
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330

MAY 13 1988

no gas volume - 6-6? Zinnia (145)

FORM WW-6

COUNTY NAME

PERMIT

017-3640-Frac

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

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

Operator's Well Number: E-51 (Maxson "A") 3) Elevation: 1072'

Well type: (a) Oil \_\_\_/ or Gas x/ Issued 07/30/96  
(b) If Gas: Production x/ Underground Storage \_\_\_/ Expires 07/30/98  
Deep \_\_\_/ Shallow x/

5) Proposed Target Formation(s): Alexander <sup>439</sup> 5354' 5421' Berson 5037' - 5046'

6) Proposed Total Depth: ~~5900~~ 5544'

7) Approximate fresh water strata depths: 140,

8) Approximate salt water depths: 2725,

9) Approximate coal seam depths: 194, 115, 735

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

11) Proposed Well Work: Frac, (Riley, Bradford, Speechley, Balltown)

12) It temporary plug frac CASING AND TUBING PROGRAM Remove Plug commingle with Alexander & Berson

RECEIVED  
WV Division of  
Environmental Protection  
JUL 15 1996  
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		150	150	175	CTS
Fresh Water						
Coal					71140'	CTS
Intermediate	8 5/8		1050	1050		CTS
Production	4 1/2		5600	5600		400 sks
Tubing					5477'	200 sks.
Liners						

Existing from Well Record.

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 [ ] Agent  
(Type)

RECEIVED  
Division of Environmental Protection  
July 12 1996  
Environmental & Gas

- 1) Date: July 11, 1996
- 2) Operator's Well Number  
E-51 (Maxson "A")
- 3) API Well No: 47- 017 - 3640-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

- |  |   |
|--|---|
| <p>4) Surface owner(s) to be served:</p> <p>(a) Name David Hall<br/>Address Rt. 1 Box 321<br/>Salem WV 26426</p> <p>(b) Name<br/>Address</p> <p>(c) Name<br/>Address</p> | <p>5) (a) Coal Operator:</p> <p>Name N/A<br/>Address</p> <p>(b) Coal Owner(s) with Declaration<br/>Name Willis G. Tetrick<br/>Address PO Box 267<br/>Clarksburg WV 26302</p> <p>Name<br/>Address</p> <p>(c) Coal Lessee with Declaration<br/>Name N/A<br/>Address</p> |
| <p>6) Inspector Mike Underwood<br/>Address Rt. 2 Box 114<br/>Salem WV 26426<br/>Telephone ( ) -</p>  |   |

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



35  
ev 8-81)

Date JULY 29, 1988  
Operator's  
Well No. E-51  
Farm MAXSON  
API No. 47 - 017 - 3640

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: 1072 Watershed GREENBRIER CREEK  
District: GREENBRIER County DODDRIDGE Quadrangle BIG ISAAC

COMPANY EXCELENERGY, INC.  
ADDRESS P.O. BOX 1020  
DESIGNATED AGENT H. L. BARNETT  
ADDRESS P.O. BOX 1020, BRIDGEPORT, WV 26330  
SURFACE OWNER NEVA MARTIN/ DAVID HALL  
ADDRESS \_\_\_\_\_  
MINERAL RIGHTS OWNER MAXSON HEIRS  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
UNDERWOOD ADDRESS RT. @ BOX 114 SALEM  
PERMIT ISSUED MAY 12, 1988  
DRILLING COMMENCED JULY 12, 1988  
DRILLING COMPLETED JULY 18, 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.	20	PULLED	
13-10"	175	175	C.T.S.
9 5/8			
8 5/8	1140	1140	C.T.S.
7			
5 1/2			
4 1/2	5477	5477	200 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON - ALEXANDER Depth 5600 feet  
Depth of completed well 5549 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 50,130, Feet; Salt n/a feet  
Coal seam depths: 800-803 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation ALEXANDER Pay zone depth 5354-5421 feet  
Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow ? 933 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(If applicable due to multiple completion--)

Second producing formation BENSON COMINGLED Pay zone depth 5037-5046 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 72 hours NOV 18  
Static rock pressure 1640 psig (surface measurement) after 30 hours shut in

(Continue on reverse side)



35  
ev 8-81)

Date JULY 29, 1988  
Operator's  
Well No. E-51  
Farm MAXSON  
API No. 47 - 017 - 3640

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: 1072 Watershed GREENBRIER CREEK  
District: GREENBRIER County DODDRIDGE Quadrangle BIG ISAAC

COMPANY EXCELENERGY, INC.  
ADDRESS P.O. BOX 1020  
DESIGNATED AGENT H. L. BARNETT  
ADDRESS P.O. BOX 1020, BRIDGEPORT, WV 26330  
SURFACE OWNER NEVA MARTIN/ DAVID HALL  
ADDRESS \_\_\_\_\_  
MINERAL RIGHTS OWNER MAXSON HEIRS  
ADDRESS \_\_\_\_\_  
OIL AND GAS INSPECTOR FOR THIS WORK \_\_\_\_\_  
UNDERWOOD ADDRESS RT. 2 BOX 114 SALEM  
PERMIT ISSUED MAY 12, 1988  
DRILLING COMMENCED JULY 12, 1988  
DRILLING COMPLETED JULY 18, 1988  
IF APPLICABLE: PLUGGING OF DRY HOLE ON  
CONTINUOUS PROGRESSION FROM DRILLING OR  
REWORKING. VERBAL PERMISSION OBTAINED  
ON \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.	20	PULLED	
13-10"	175	175	C.T.S.
9 5/8			
8 5/8	1140	1140	C.T.S.
7			
5 1/2			
4 1/2	5477	5477	200 SKS
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON - ALEXANDER Depth 5600 feet  
Depth of completed well 5549 feet Rotary x / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 50,130 feet; Salt n/a feet  
Coal seam depths: 800-803 Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation ALEXANDER Pay zone depth 5354-5421 feet  
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Final open flow ? 933 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
(If applicable due to multiple completion--)  
Second producing formation BENSON COMINGLED Pay zone depth 5037-5046 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 72 hours NOV 18  
Static rock pressure 1640 psig (surface measurement) after 30 hours shut in

(Continue on reverse side)

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

STAGE	PERFORATIONS	PROPPANT	FLUID VOLUME
I ALEXANDER	<u>5354-5421</u>	350 SKS 20/40	225 BBLs 75 Q FOAM
II BENSON	<u>5037-5046</u>	350 SKS 20/40	225 BBLs 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	50	
RED ROCK & SAND			50	190	DAMP @ 130'
SAND & SHALE			190	460	
SAND			460	540	DAMP @ 520'
SAND & SHALE			540	725	
SAND			725	800	
COAL SOLID			800	803	
SAND & SHALE			803	2087	
BIG LIME			2087	2165	
BIG INJUN			2165	2245	GAS SHOW
SAND & SHALE			2245	2735	
50' SAND			2735	2760	
GORDON			2760	2840	GAS SHOW
SAND & SHALE			2840	4975	
BENSON			4975	5050	GAS SHOW
SHALE			5050	5350	
ALEXANDER			5350	5400	
SHALE			5400	<u>5549</u>	
				<u>DTD</u>	

(Attach separate sheets as necessary)

EXCELENERGY, INC.

Well Operator

By: *Bradley W. Thomas* BRADLEY W. THOMAS

Date: 7-29-88

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

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

STAGE	PERFORATIONS	PROPPANT	FLUID VOLUME
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SAND & SHALE			190	460	
SAND			460	540	DAMP @ 520'
SAND & SHALE			540	725	
SAND			725	800	
COAL SOLID			800	803	
SAND & SHALE			803	2087	
BIG LIME			2087	2165	
BIG INJUN			2165	2245	GAS SHOW
SAND & SHALE			2245	2735	
50' SAND			2735	2760	
GORDON			2760	2840	GAS SHOW
SAND & SHALE			2840	4975	
BENSON			4975	5050	GAS SHOW
SHALE			5050	5350	
ALEXANDER			5350	5400	
SHALE			5400	5549	
				<u>DTD</u>	

(Attach separate sheets as necessary)

EXCELENERGY, INC.

Well Operator

By: Bradley W. Thomas BRADLEY W. THOMAS

Date: 7-29-88

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

- 1) Well Operator: EXCEL ENERGY, INC. 1028 16570, 4, 252
2) Operator's Well Number: E-51 3) Elevation: 1072
4) Well type: (a) Oil / or Gas X/
(b) If Gas: Production / Underground Storage / Deep / Shallow X/
5) Proposed Target Formation(s): ALEXANDER 439
6) Proposed Total Depth: 5900 feet
7) Approximate fresh water strata depths: 140, 285'
8) Approximate salt water depths: 2725 1500'-1700'
9) Approximate coal seam depths: 194, 115, 735 650'-655', 280'-284'
10) Does land contain coal seams tributary to active mine? Yes / No X/
11) Proposed Well Work:
12)

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, 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 50 Blanket Agent

7010