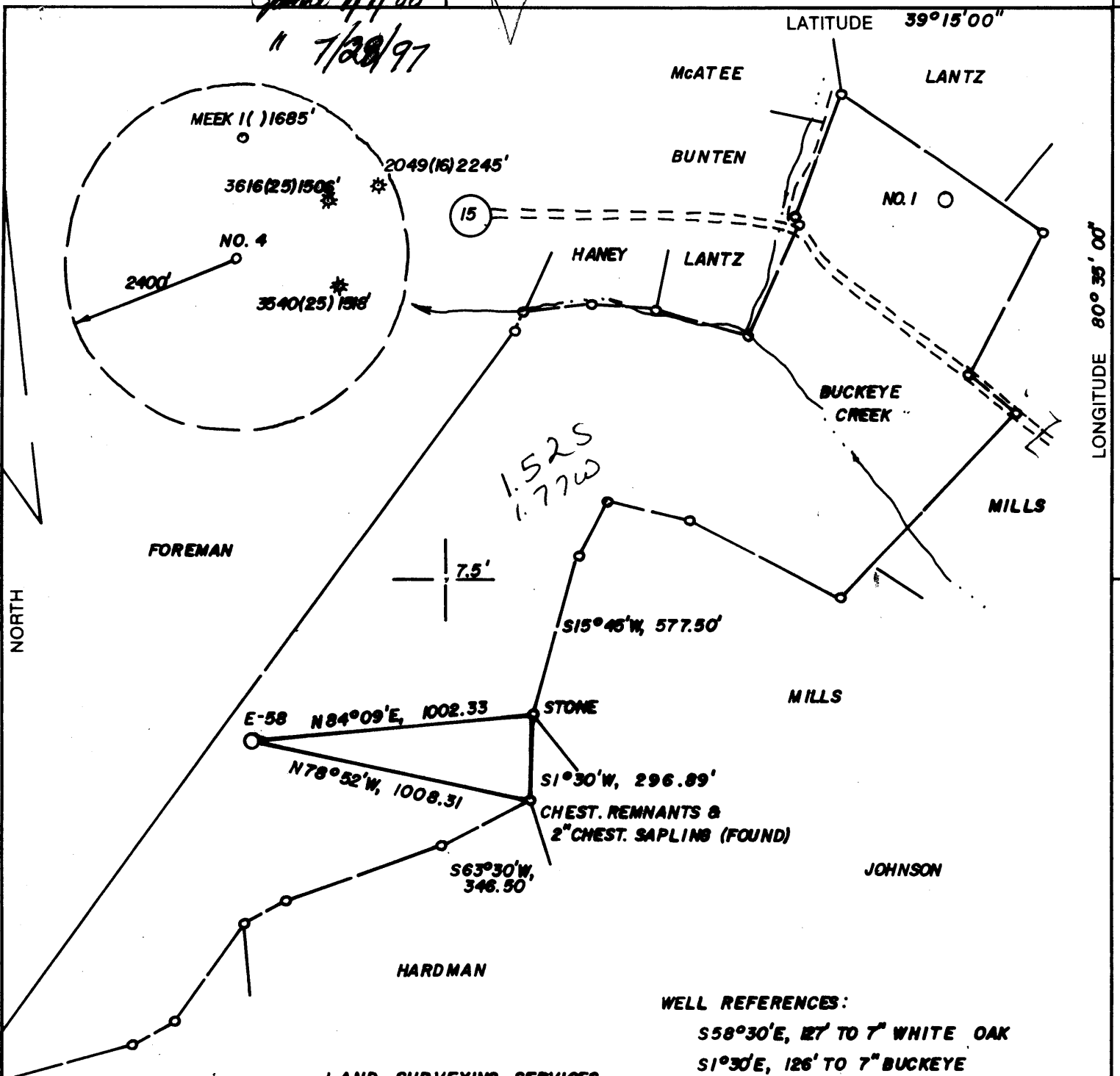


June 7/7/88
 7/28/97

9490' LATITUDE 39°15'00"



0608
 00, 56, 08 LONGITUDE

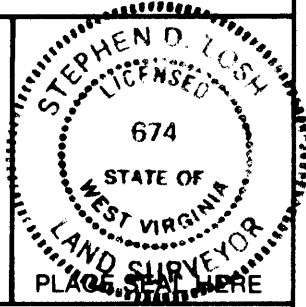
WELL REFERENCES:
 S58°30'E, 127' TO 7" WHITE OAK
 S1°30'E, 126' TO 7" BUCKEYE

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" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD INT. 2850' NE. OF LOC. AT ELEV. 904'

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. NO. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 16, 19 88
 OPERATOR'S WELL NO. E-58
 API WELL NO. ADAMS NO. 4
 47-017-3656
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1051' WATER SHED BUCKEYE CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5
 SURFACE OWNER JEFFREY MILLS ACREAGE 81
 OIL & GAS ROYALTY OWNER J. J. ADAMS LEASE ACREAGE 81
 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) frac. converting well - Ruluy, & Bradford.
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5700' - 5600'

Exploration Partners LLC
 P.O. Box 930

Louis Ferrari
 Same Address
 PH: 304-842-8777

AUG 15 1997

COUNTY NAME DODDRIDGE
 PERMIT 3656

FORM WW-6
 H.T. HALL 9/9/73

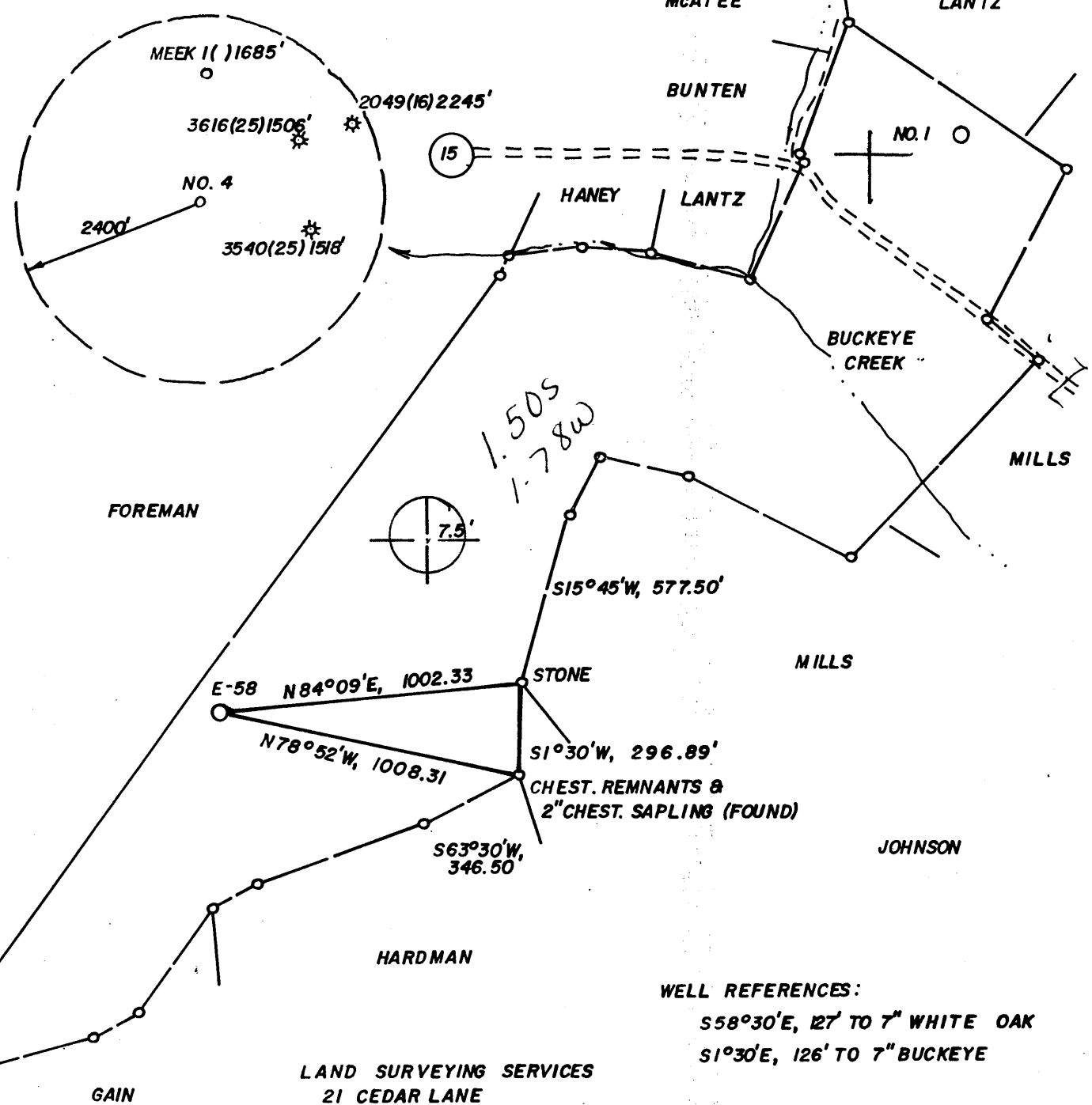
June 7/7/88

9490'

LATITUDE 39°15'00"

LONGITUDE 80°35'00"

NORTH



WELL REFERENCES:
 S58°30'E, 127' TO 7" WHITE OAK
 S1°30'E, 126' TO 7" BUCKEYE

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" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION ROAD INT. 2850' NE. OF LOC. AT ELEV. 904'

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. NO. 674
STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 16, 19 88
 OPERATOR'S WELL NO. E-58
 API WELL NO. ADAMS NO. 4
47-017-3656

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1051' WATERSHED BUCKEYE CREEK
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 252 1232 VADIS AC
 SURFACE OWNER JEFFREY MILLS ACREAGE 81
 OIL & GAS ROYALTY OWNER J. J. ADAMS LEASE ACREAGE 81
 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 5700' JUL 15 1988
 WELL OPERATOR EXCEL ENERGY, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P. O. BOX 1020 ADDRESS P. O. BOX 1020
BRIDGEPORT, WV 26330 1020 BRIDGEPORT, WV 26330

66 Zinnia (145)

FORM WW-6
 H.T. HALL 48673

COUNTY NAME
 PERMIT

IV-35
(Rev 8-81)



RECEIVED
JUL 12 1989

State of West Virginia

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Date July 11, 1989
Operator's Well No. Adams E-58
Farm Adams
API No. 47 - 017 - 3656

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: 1051' Watershed 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 Jeffrey Mills
ADDRESS Rt. 1, Box 345, Salem, WV 26426
MINERAL RIGHTS OWNER J. Adams Heirs
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. 2, Box 135, Salem, WV 26426
PERMIT ISSUED 7-14-88
DRILLING COMMENCED 6-19-89
DRILLING COMPLETED 6-27-89

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
11 3/4" 13-10"	20'		
9 5/8"			
8 5/8"	1105'	1105'	CTS
7"			
5 1/2"			
4 1/2"	5487'	5487'	280 sks
3"			
2"			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

GEOLOGICAL TARGET FORMATION Alexander-Benson Depth 5606 feet
Depth of completed well 5582 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 115' feet; Salt 1835, 2642 feet
Coal seam depths: 430'-434' Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Alexander Pay zone depth 5338-5402 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 300 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1700 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Benson Pay zone depth 5040-5044 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 350 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1700 psig (surface measurement) after 24 hours shut in

JUL 14 1989

(Continue on reverse side)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 STAGE I - Alexander (5338'-5402') 15 holes, 45,000# sand, 600 BBL H²O.
 STAGE II - Benson (5040'-5044') 15 holes, 55,000# sand, 700 BBL H²O.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Shale			0	142	1" H ² O @ 115'
Sand & Shale			142	430	
Coal			430	434	
Sand & Shale			434	900	
Sand			900	950	
Sand & Shale			950	1660	
Sand			1660	1705	
Shale			1705	2093	Damp @ 1835'
Big Lime			2093	2183	
Big Injun			2183	2249	
Sand & Shale			2249	3420	Damp @ 2642
Shale			3420	5018	
Benson			5018	5055	Show of Gas
Shale			5055	5330	
Alexander			5330	5400	Show of Gas
Shale			5400	5606	
				DTD	

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 JUL 12 1989
 DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Excel Energy, Inc.
 Well Operator

By: H.S. Bando

Date: July 11, 1989

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."
 13/3

JUL 14 1989

14

017-3656
 issued 7/14/88 Expiry 7/14/90
 Page ___ of ___

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

- 1) Well Operator: EXCEL ENERGY, INC. 10570, 4, 252
- 2) Operator's Well Number: ADAMSE-58 3) Elevation: 1051
- 4) Well type: (a) Oil or Gas
 (b) If Gas: Production Underground Storage
 Deep Shallow
- 5) Proposed Target Formation(s): Benson & Alexander
- 6) Proposed Total Depth: 5700' feet
- 7) Approximate fresh water strata depths: OK 140, 210
- 8) Approximate salt water depths: N/A?
- 9) Approximate coal seam depths: OK 140-143, 210-214, 700-703
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill & Stimulate
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	1 13/4			20	20	Sanded in
Fresh Water						<i>ok McCall</i> 380SR18-11.3
Coal	8 5/8		#23	1100	1100	← CTS 380SR18-11.2.2
Intermediate	4 1/2		#10.5	5650	5650	← 450sks 380SR18-11.1
Production						
Tubing						
Liners						

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 JUN 28 1988

PACKERS : Kind _____
 Sizes _____
 Depths set _____

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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
 (Type)

1313
 1976
 20

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JUN 28 1988

Page 1 of _____
Form WW2-A
(09/87)
File Copy

DIVISION OF OIL & GAS 3)
DEPARTMENT OF ENERGY

Date: June 17, 1988
Operator's well number
Adams E-58
API Well No: 47 - 017 - 3656
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Jeffrey A. Mills
Address _____

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Mike Underwood
Address Rt. 2 Box 114
Salem, WV 25426
Telephone (304)- 782-1043

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name Willis G. Tetrick, Jr.
Address _____

Name _____
Address _____

(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

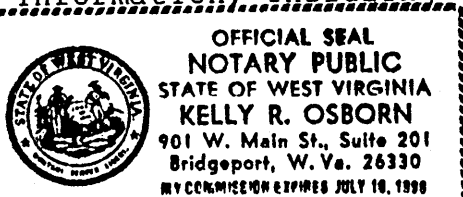
X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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 pages 1 through _____ on the above named parties, by:

- X Personal Service (Affidavit attached)
- _____ 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 Excel Energy, Inc.
By: H. L. Barnett
Its: President
Address P.O. Box 1020, Birdgeport, WV 26330
Telephone (304)-842-6927

Subscribed and sworn before me this 17 day of June, 1988

Kelly R. Osborn Notary Public
My commission expires 7-16-96

JUN 28 1996

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil & Gas WELL WORK PERMIT APPLICATION

1) Well Operator: Exploration Partners Producing Company 3582 585 (4) 282
Operator's Well Number: E-58 (Adams #4) 3) Elevation: 1051

Well type: (a) Oil ___/ or Gas x/ *Issued 07/28/97*
(b) If Gas: Production x/ Underground Storage ___/ *Expires 07/28/99*
Deep ___/ Shallow x/

- Proposed Target Formation(s): Benson & Alexander
- Proposed Total Depth: 5700'
- Approximate fresh water strata depths: 140, 210
- Approximate salt water depths: N/A
- Approximate coal seam depths: 140-143, 210-214, 700-703,
- Doses land contain seams tributary to active mine? Yes / No X /
- Proposed Well Work: FRAC (RILEY, BRADFORD)
- 12)

Existing well drilled in 1989

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill - up (cu. ft)
Conductor	11 3/4			20	20	Sanded In
Fresh Water					1105'	
Coal	8 5/8		23#	1100	1100	CTS
Intermediate	4 1/2		10.50#	5650	5650	450 sks
Production					5487'	
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 _____ [] Agent
(Type)

22221

JUN 28 1996

- 1) Date: June 18, 1996
- 2) Operator's Well Number
E-58 (Adams #4)
- 3) API Well No: 47-017 - 3656-F
state-county-permit

Permitting
Office of Oil & Gas

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 Jeffrey A. Mills
Address Rt. 1 Box 345
Salem WV 26426</p> <p>(b) Name
Address</p> <p>(c) Name
Address</p> | <p>5) (a) Coal Operator:</p> <p>Name N/A
Address</p> <p>(b) Coal Owner(s) with Declaration
Name Willis G. Tetrick
Address PO Box 267
Clarksburg WV 26302</p> <p>Name
Address</p> <p>(c) Coal Lessee with Declaration
Name N/A
Address</p> |
| <p>6) Inspector Mike Underwood
Address Rt.2 Box 114
Salem WV 26426
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)

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