

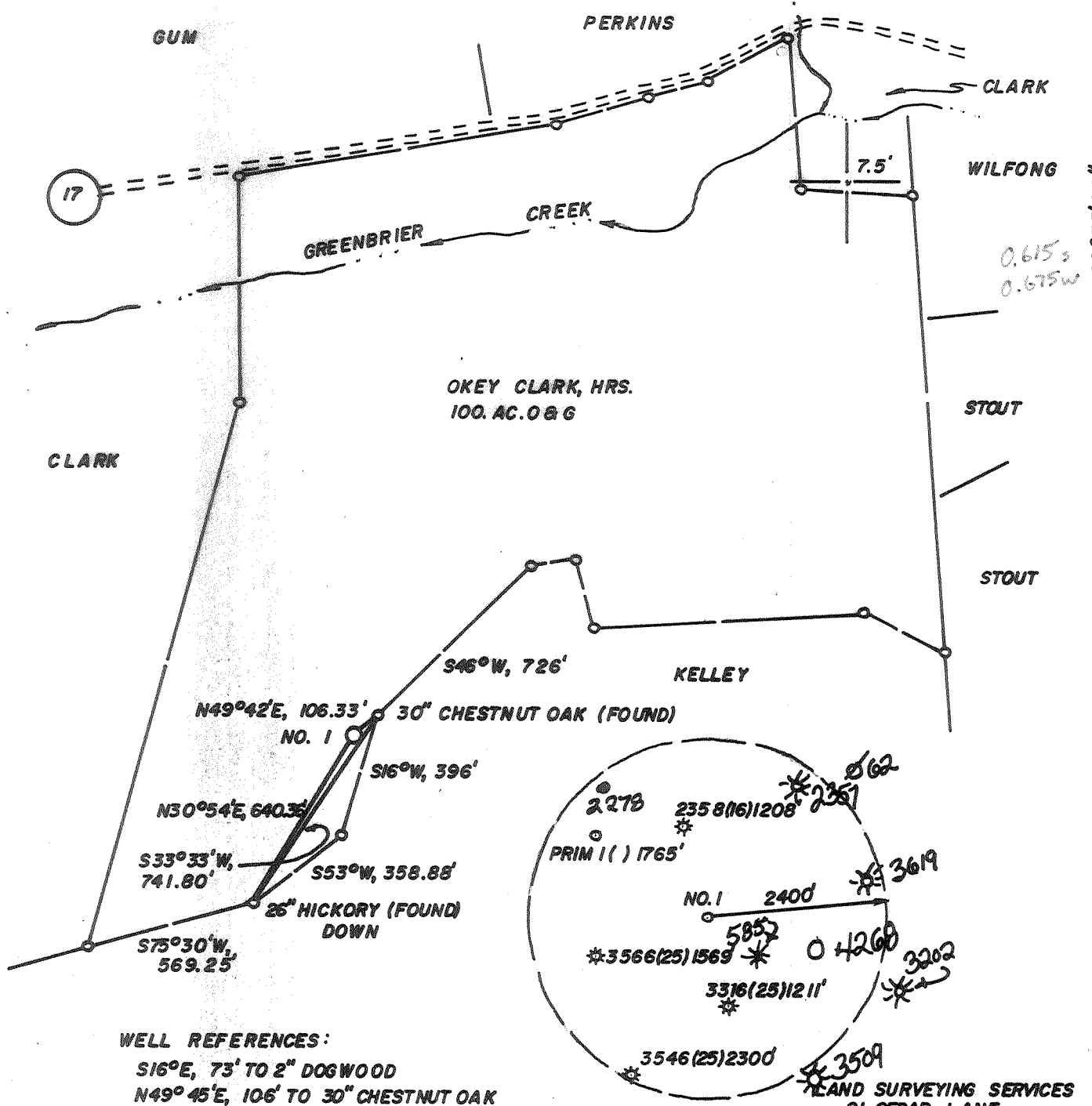
V James 7/26/88
11 7/31/96

LATITUDE 39°15'00"

3600'

LONGITUDE 80°35'00"

NORTH



WELL REFERENCES:
S16°E, 73' TO 2" DOGWOOD
N49°45'E, 106' TO 30" CHESTNUT OAK

LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-208

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 200
PROVEN SOURCE OF ELEVATION ROAD INT. 2765' NE OF LOC. AT 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) *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 JULY 14, 19 88
OPERATOR'S WELL NO. E-63
API WELL NO. 47-017-03658-F

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1263' WATERSHED GREENBRIER CREEK
DISTRICT GREENBRIER COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC 7.5'

SURFACE OWNER RICHARD M. CLARK, ET. AL. ACREAGE 98.98
OIL & GAS ROYALTY OWNER OKEY CLARK, HRS. LEASE ACREAGE 100.

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Set temporary plug back Riley Bradford Balltown remove plug
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG 5712
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5900' Compare with alexander

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

W
A) Exploration Partners Producing Co.
P.O. Box 1245
Bridgeport, wv.a 26330-1245

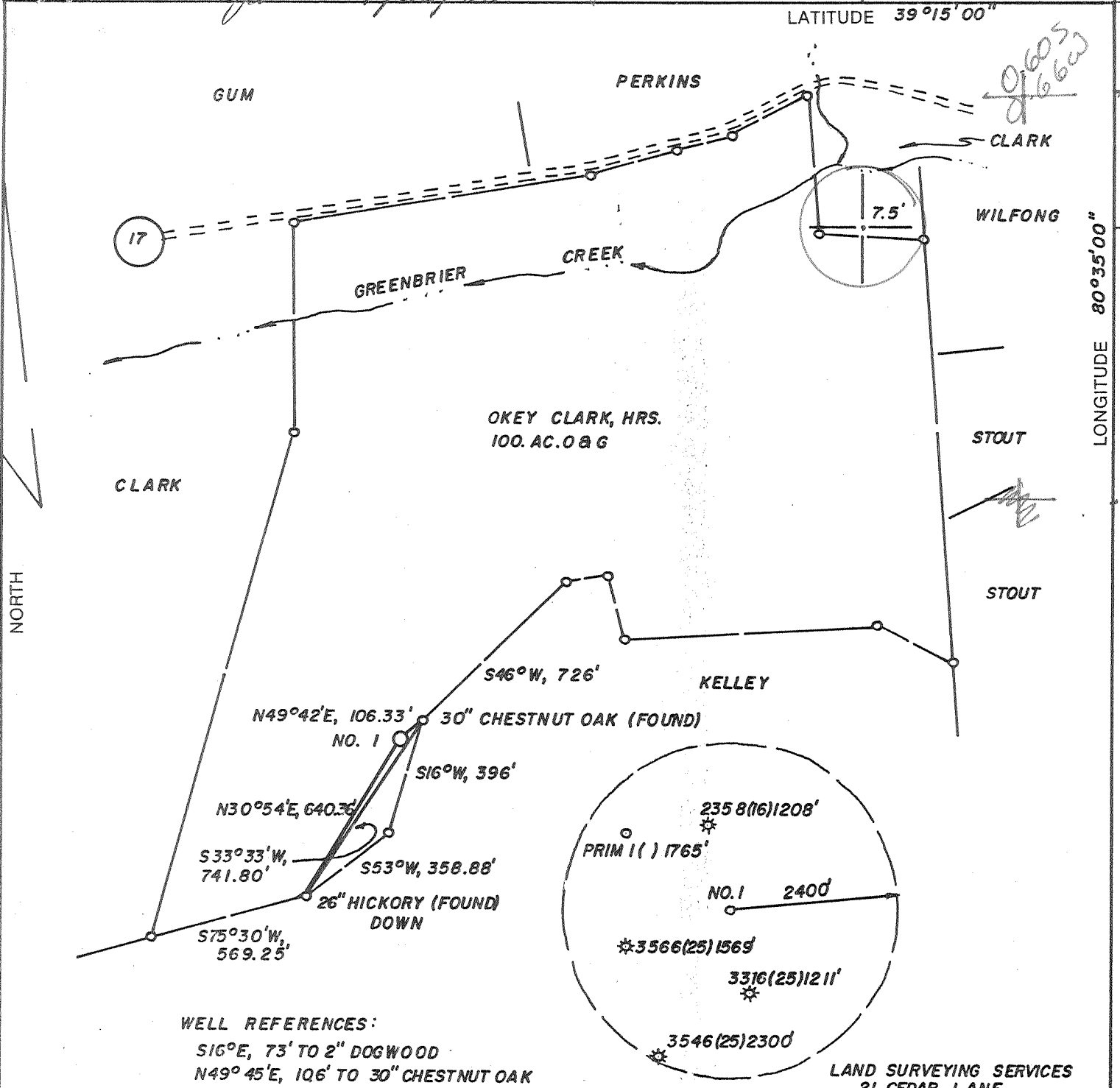
COUNTY NAME DODD PERMIT 3658

FORM WW-6 H.T. HALL 98673

Jamie 7/26/88

3600'

LATITUDE 39°15'00"



OKEY CLARK, HRS.
100. AC. 0 & 6

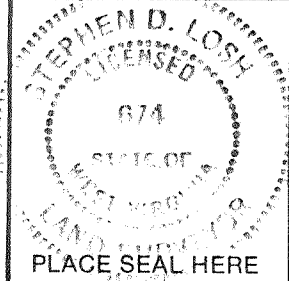
WELL REFERENCES:
S16°E, 73' TO 2" DOGWOOD
N49°45'E, 106' TO 30" CHESTNUT OAK

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. 2765' NE OF LOC. AT ELEV. 948'

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(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 JULY 14, 19 88
OPERATOR'S WELL NO. E-
API WELL NO. CLARK NO. 1
47 - 017 - 3658

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE COUNTY PERMIT
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1263' WATER SHED GREENBRIER CREEK
DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
QUADRANGLE BIG ISAAC 7.5' 252 123 2 VADISAC
SURFACE OWNER RICHARD M. CLARK, ET. AL. ACREAGE 98.98
OIL & GAS ROYALTY OWNER OKEY CLARK, HRS. LEASE ACREAGE 100.

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 5900'
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

AUG 01 1988
AUG 01 1988

6-6 Zinnia (145)

FORM WW-6
H.T. HALL - 8673

COUNTY NAME
PERMIT

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

Permitting
Office of Oil & Gas Well Operator's Report of Well Work

Farm name: CLARK, RICHARD M. Operator Well No.: CLARK #1-E-0063

LOCATION: Elevation: 962.00 Quadrangle: BIG ISAAC

District: GREENBRIER County: DODDRIDGE
Latitude: 3225 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude 3600 Feet West of 80 Deg. 55 Min. 0 Sec.

Company: Exploration Partners Prod
P.O. Box 930
Bridgeport, WV 26330-1245

Agent: Louis A. Ferrari

Inspector: MIKE UNDERWOOD
Permit Issued: 07/30/96
Well Work Commenced: 07/24/97
Well Work Completed: 08/12/97
Verbal Plugging
Permission granted on: _____
Rotary x Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____
Salt water depths (ft) _____
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size	SEE ORIGINAL WR-35		
NO ADDITIONAL CASING RUN			
8 5/8"	1341'	1341'	squeeze 325 sks

OPEN FLOW DATA

Producing formations RILEY, BRADFORD, BAYARD Pay zone depth (ft) 2326-5093
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/
Final open flow 103 MCF/d Final open flow SHOW Bbl/
Time of open flow between initial and final tests 24 Hour
Static rock pressure 210 psig (surface pressure) after 48 Hour

Second producing formation INJUN Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial Open flow _____ Bbl/
Final open flow Comingled MCF/d Final open flow _____ Bbl/
Time of open flow between initial and final tests _____ Hour
Static rock pressure Comingled psig (surface pressure) after _____ Hour

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.

Louis A. Ferrari
For: EXPLORATION PARTNERS LLC

By: Louis A. Ferrari
Date: NOVEMBER 18, 1997

FORM IV-35
(REVERSE)

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

SET BRIDGE PLUG @ 5165, SHOOT SQUEEZE ~~PLUGS~~ ^{PERFS} @ 3385. BREAK CIRCULATION & CEMENT WITH 325 SKS. JOB WAS SUCCESSFUL.

STAGE I (4608-5093) 15 HOLES 500 GAL 15% HCL, 30,000 # SAND, 330 BBL GELLED H2O.

STAGE II (3286-3290) 12 HOLES 500 GAL 15% HCL, 20,000 # SAND, 237 BBL GELLED H2O.

STAGE III (2326-2380) 19 HOLES 500 GAL 15% HCL, 30,000 # SAND, 306 BBL GELLED H2O.

WELL LOG

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

JAN 08 1980



IV-35
(Rev 8-81)

Date SEPTEMBER 20, 1988
Operator's
Well No. E-63
Farm R. CLARK
API No. 047-017-3658

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: 1263 Watershed GREENBRIER CREEK
District: GREENBRIER County DODDRIDGE Quadrangle Big ISAAC 7 1/2

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 RICHARD CLARK
ADDRESS _____
MINERAL RIGHTS OWNER RICHARD CLARK
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK MIKE
UNDERWOOD ADDRESS _____
PERMIT ISSUED July 26, 1988
DRILLING COMMENCED SEPTEMBER 1, 1988
DRILLING COMPLETED SEPTEMBER 9, 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'	20'	SAWDED IN
13-10"			
9 5/8			
8 5/8	1341	1341	C.T.S.
7			
5 1/2			
4 1/2	5660	5660	4755K
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION ALEXANDER, BENSON Depth 5900 feet
Depth of completed well 5717 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 75,160 feet; Salt 2200?? feet
Coal seam depths: 928-935 Is coal being mined in the area? NO

OPEN FLOW DATA

MAR 17 1989

Producing formation ALEXANDER Pay zone depth 5500-5580 feet
Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow - Bbl/d
Final open flow 956 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 48 hours shut in
(If applicable due to multiple completion--)

Second producing formation BENSON Pay zone depth 5210-5218 feet
Gas: Initial open flow SHOW Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 956 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 48 hours shut in

(Continue on reverse side)

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

STAGE I

ALEXANDER 12 HOLES (5505-5582) 400 SKS SAND IN 200 BBL 75Q FOAM, 500 GAL 15% HCL

STAGE II

BENSON 13 HOLES (5210-5216) 400 SKS SAND IN 200 BBL 75Q FOAM, 500 GAL 15% 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
FILL			0	3	
SAND & SHALE			3	928	DAMP C 75', 1" STREAM @ 160'
COAL			928	935	
SAND & SHALE			935	2222	DAMP @ 2200
LITTLE LIME			2222	2234	
SHALE			2234	2259	
Big LIME			2259	2336	
Big INJUN			2336	2418	GAS SHOW
SAND & SHALE			2418	2919	
SAND (50')			2919	2935	
SAND & SHALE (GORDON)			2935	3142	
SHALE			3142	3620	
SPEECHLEY			3620	3800	
SAND & SHALE			3800	4691	
BRADFORD			4691	4722	
SHALE			4722	5206	
BENSON			5206	5225	
SHALE			5225	5505	
ALEXANDER			5505	5585	
SAND & SHALE			5585	5717 LTD	
				5712 LTD	

(Attach separate sheets as necessary)

Excel Energy, INC.

Well Operator

By:

Bradley W. Thomas, Consultant

Date:

September 20, 1988

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."

017-3658

Issued 7/26/88 Expired 7/26/90

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: CLARK E-63 3) Elevation: 1263
4) Well type: (a) Oil / or Gas X /
(b) If Gas: Production X / Underground Storage /
Deep / Shallow X /
5) Proposed Target Formation(s): ALEXANDER
6) Proposed Total Depth: 5900 feet
7) Approximate fresh water strata depths: 30, 60, 155 975'
8) Approximate salt water depths: N/A
9) Approximate coal seam depths: 155, 485, 800
10) Does land contain coal seams tributary to active mine? Yes / No X /
11) Proposed Well Work: DRILL & STIMULATE
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 (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

RECEIVED JUL 25 1988

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
Plat WW-9 WW-2B Bond 50000 (Type) Agent

RECEIVED
JUL 25 1988

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: JULY 14, 1988
2) Operator's well number
CLARK E-63
3) API Well No: 47 - 017 - 3658
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 RICHARD M. CLARK, ET.AL. Address RT. 1 BOX 324A SALEM, WV 26426
- (b) Name _____ Address _____
- (c) Name _____ Address _____
- 5) (a) Coal Operator:
- Name _____ Address _____
- (b) Coal Owner(s) with Declaration
Name WILLIS G. TETRICK, JR. Address _____
- (c) Coal Lessee with Declaration
Name _____ Address _____
- 6) Inspector MIKE UNDERWOOD Address RT. 2 BOX 114 SALEM, WV 26426 Telephone (304)-_____

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:

_____ 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 EXCEL ENERGY, INC.
By: H.L. BARNETT
Its: PRESIDENT
Address P.O. BOX 1020 BRIDGEPORT, WV 26330
Telephone (304)-842-6927



OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
KELLY R. OSBORN
901 W. Main St., Suite 201
Bridgeport, W. Va. 26330
MY COMMISSION EXPIRES JULY 18, 1998

Subscribed and sworn before me this 14TH day of JULY, 1988

Kelly R. Osborn

Notary Public

My commission expires 7-16-96

017-3658-F

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

Well Operator: Exploration Partners Producing Company 5588 16585 (4) 252

Operator's Well Number: E-63 (Clark) 3) Elevation: 1263

Well type: (a) Oil ___ / or Gas x/

Issued 07/30/96
Expires 07/30/98

(b) If Gas: Production x/ Underground Storage ___ /
Deep ___ / Shallow x/

RECEIVED
WV Division of
Environmental Protection
JUL 03 1998
Permitting
Office of Oil & Gas

Proposed Target Formation(s): Alexander ⁴³⁹ 5505' - 5592'

Proposed Total Depth: ~~5900'~~ 5712' ~~5210'~~ 5210' - 5216'

Approximate fresh water strata depths: 30, 60, 155, 375

Approximate salt water depths: N/A

Approximate coal seam depths: 155, 485, 800

Doses land contain seams tributary to active mine? Yes / No X /

Proposed Well Work: FRAC (RILEY, BRADFORD, BALLTOWN)

Remove Plug Commingle
With Original Production

Set temporary plug

CASING AND TUBING PROGRAM

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT			
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill - up (cu. ft)
Conductor	11 3/4			30	0	Sanded in
Fresh Water						
Coal						
Intermediate	8 5/8		23#	1350	1350	310 sks
Production	4 1/2		10.5#	5800	5800	400 sks
Tubing					5660	475 sks
Liners						

1341' CTS

Electricity 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)

JUL 03 1996

Permitting
Office of Oil & Gas

- 1) Date: June 13, 1996
- 2) Operator's Well Number
E-63 (Clark)
- 3) API Well No: 47-017 - 3658-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 Richard M. Clark ET.AL.
Address Rt. 1 Box 324 A
Salem WV 26426</p> <p>(b) Name
Address</p> <p>(c) Name
Address</p> | <p>5) (a) Coal Operator:</p> <p>Name
Address</p> <p>(b) Coal Owner(s) with Declaration
Name Willis G. Tetrick, Jr.
Address PO Box 267
Clarksburg WV 26302</p> <p>Name
Address</p> <p>(c) Coal Lessee with Declaration
Name
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 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 13 day of June, 1996
Ruth Ann Rigdon Ruth Ann Rigdon Notary Public
My commission expires July 29, 2002