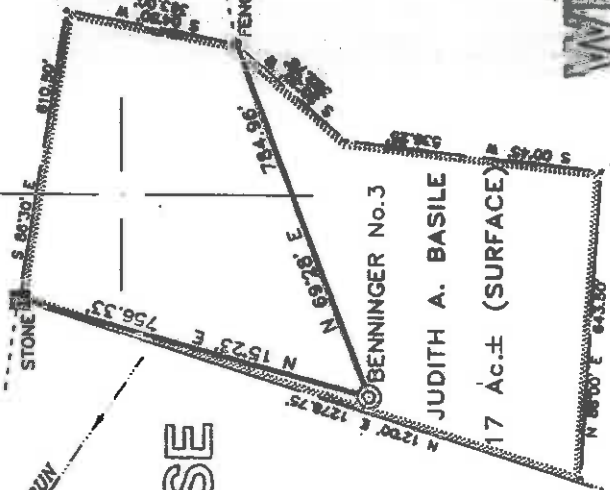


LATITUDE 39-17-30
LONGITUDE 80-50-00

Gregory A. Smith
1/21/1997

BENNINGER LEASE 17 ACRES±



WELL NO. 3

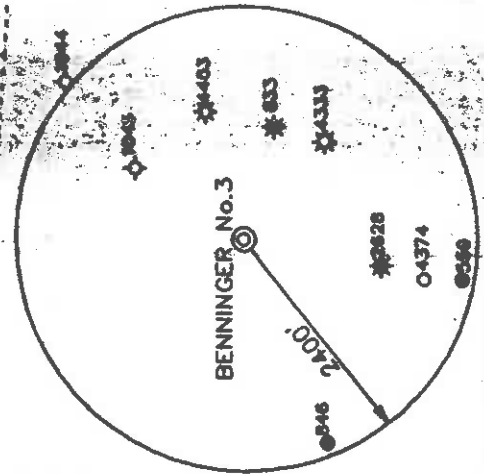
NORTH

TOWNER

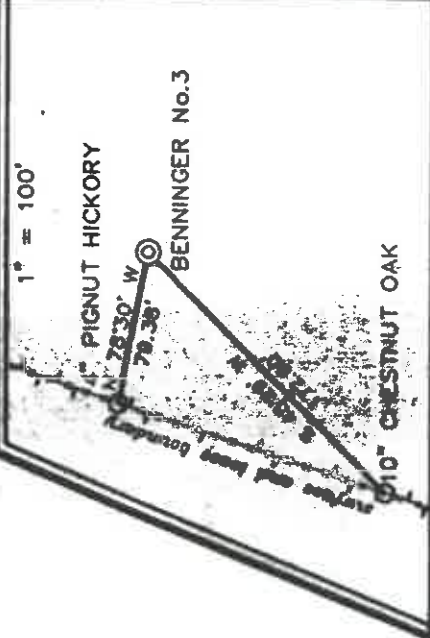
J. BASILE

HARPER

McCULLOUGH

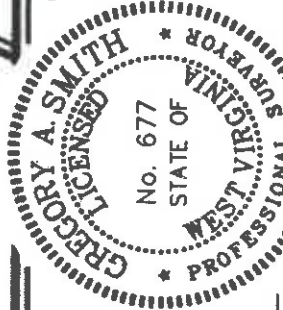


REFERENCES



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.

P.S. *Gregory A. Smith*
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE DECEMBER 12, 19 97
OPERATORS WELL NO. BENNINGER No.3
API WELL NO. 47-017-0440 PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3846P3(64-50)
PROVEN SOURCE OF ELEVATION BENCH MARK 941' SCALE 1" = 400'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



WELL TYPE : OIL GAS INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1155' WATERSHED TRIBUTARY OF LONG RUN
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
SURFACE OWNER JUDITH A. BASILE ACREAGE 17
ROYALTY OWNER MARY HILL et al. LEASE ACREAGE 17

PROPOSED WORK : LEASE NO. :
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION ALEXANDER
ESTIMATED DEPTH 5750'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 CARTON PLAZA, WESTON, WV. 26201

ADDRESS 22 CARTON PLAZA, WESTON, WV. 26201

6-6 89

WR-35

17 - Dec - 97
API # 47 - 17 - 04416

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



Well Operator's Report of Well Work

Farm name: BASILE, JUDITH A.

Operator Well No. : BENNINGER #3

LOCATION: Elevation: 1,155.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 1730 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 5900 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: KEY OIL COMPANY
22 Garton Plaza
WESTON, WV 26452-0000

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 12/26/97
Well Work Commenced: 12/29/97
Well Work Completed: 01/07/98

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5471'
Fresh water depths (ft) 788'
Salt water depths (ft) NONE

Is coal being mined in area (Y / N) ? N
Coal Depths (ft) : NONE

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	132.60'	132.60'	70 sks To Surface
8 5/8"	1898.25'	1898.25'	585 sks To Surface
4 1/2"	5420'	5420'	375 sks
2 3/8"		5291'	

OPEN FLOW DATA

Producing formation _____
 Gas: Initial open flow _____ MCF / d Oil: Initial open flow _____ Bbl / d
 Final open flow 1,524 MCF / d Oil: Final open flow show _____ Bbl / d
 Time of open flow between initial and final tests _____ N/A _____ Hours
 Static rock pressure 1800 _____ psig (surface pressure) after 96 _____ Hours

Balltown 3845' - 4564'
 Rileys 4585' - 4984'
 Benson 5020' - 5032'

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

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.

For: KEY OIL COMPANY
By:
Date: April 20, 1998

PRESIDENT

MAY 04 1998

DD 4416

Benninger #3 (47-017-4416)
 Three Stage Foam Frac - Halliburton

1st Stage: Alexander (12 holes) (5311.50' to 5330') 60 Quality Foam. 500 gal. 15% HCL.
 60,000# 20/40 sand, 550,000 SCF N2,
 813 bbis foam.

2nd Stage: Benson (7 holes) (5025.25' to 5026.75') 60 Quality Foam. 750 gal 15% HCL.
 Thirrd Riley (5 holes) (4969.75' to 4970.75') 50,000# 20/40 sand, 481,000 SCF N2,
 714 bbis foam.

3rd Stage: Riley (12 holes) (4608.25' to 4627') 60 Quality Foam. 750 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbis foam.

4th Stage: Balltown (14 holes) (3901.50' to 4077.25') 60 Quality Foam. 750 gal 15% HCL.
 5,000# 80/100 sand, 45,000# 20/40 sand,
 502,000 SCF N2, 684 bbis foam.

WELL LOG

Fill & Clay	0	14	
Red Rock	14	30	
Sand & Shale & Red Rock	30	232	
Sand & Shale	232	270	
Sand & Shale & Red Rock	270	372	
Sand & Shale	372	952	
Sand & Shale & Red Rock	952	2041	1/2" H ₂ O @ 788'
Little Lime	2041	2070	
Shale	2070	2076	
Big Lime	2076	2134	
Big Injun	2134	2207	
Shale	2207	2371	
Weir	2371	2497	
Sand & Shale	2497	3442	
Warren	3442	3506	
Shale	3506	3518	
Speechley	3518	3638	
Shale	3638	3845	
Balltown	3845	4564	
Shale	4564	4585	
Riley	4585	4660	
Sand & Shale	4660	4944	
Third Riley	4944	4984	
Shale	4984	5020	
Benson	5020	5032	
Shale	5032	5268	
Alexander	5268	5352	
Sand & Shale	5352	5471	
T.D.	5471		

Gas Checks

2515' - Odor
 3008' - Odor
 3600' - Odor
 4509' - Odor
 4914' - Odor
 5222' - Odor

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

Well Operator: KEY OIL COMPANY 475 25655 ① 671
Operator's Well Number: BENNINGER #3 3) Elevation: 1155'

Well type: (a) OIL X / or Gas X /
(b) If Gas: Production X / Undergound Storage /
Deep / Shallow X /
Issued 12/26/97
Expires 12/26/99

RECEIVED
Division of
Environmental Protection

DEC 11 1997

- 5) Proposed Target Formation(s): ALEXANDER 409
- 6) Proposed Total Depth: 5600 feet
- 7) Approximate fresh water strata depths: 90'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes / No X /
- 11) Proposed Well Work: DRILL, STIMULATE PRODUCE
- 12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE	INTERVALS	CEMENT
					Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	11 3/4	ERW	42	132	132	70 SKS. TO SURFACE
Coal						o.k. M.W.
Intermediate	8 5/8	ERW	23	1755	1755	470 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5500	5500	490 SKS.
Tubing	1.5					
Liners						

PACKERS: Kind
Sizes
Depths set

For Office of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPC2

Plat W-9 W-2B Bond Agent (Type)

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WV Division of
Environmental Protection

DEC 11 1997

Permitting
Office of Oil & Gas

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS**

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

1) Date: DECEMBER 5, 1997
2) Operator's well number: BENNINGER #3
3) API Well No: 47 - 017 - 4416
State County Permit

4) Surface Owner(s) to be served: 5) (a) Coal Operator:

(a) Name JUDITH A. BASILE Name NONE
 Address C/O ROBERT JACKSON Address _____
 RR 1 BOX 83

(b) Name HARRISVILLE, WV 26362 (b) Coal Owner(s) with Declaration
 Address _____
 Name _____
 Address _____

(c) Name _____ Name _____
 Address _____ Address _____

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration
 Address RT. 2 BOX 135 Name _____
 SALEM, WV 26426 Address _____
 Telephone (304)- 782-1043

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
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22 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)
 Certified Mail (Postmarked postal receipt attached)
 Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 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 REX OIL COMPANY
 By: [Signature]
 Title: PRESIDENT
 Address 22 GARTON PLAZA
WESTON, WV 26452
 Telephone 304-269-7102

Subscribed and sworn before me this 5TH day of DECEMBER 19 97
 My commission expires MARCH 24, 2003

