

# BARNETT LEASE 180 ACRES± TOTAL WELL # 2

*James H. Hines*  
SCHWARTZMAN

LATITUDE 39°12'30"

LONGITUDE 80°45'00"

1.1.230

NORTH

COVE DIST.  
NEW MILTON DIST.

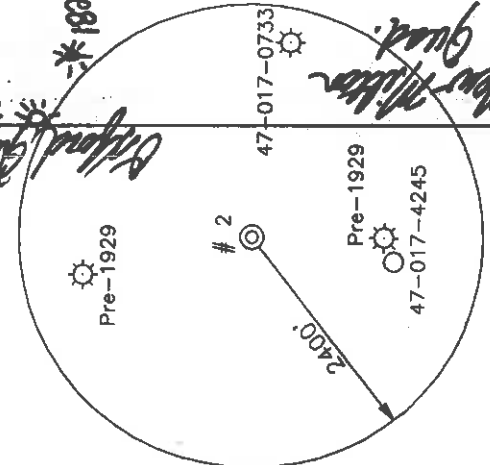
REDIFER  
38 ACRES±  
(SURFACE)

REDIFER  
20 ACRES±  
(SURFACE)

REDIFER  
20.25 ACRES±  
(SURFACE)

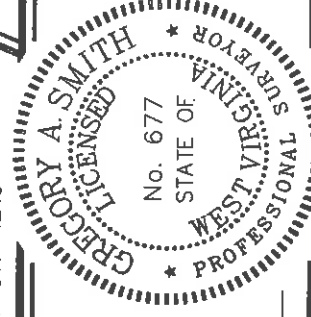
B. BARNETT  
15 ACRES±  
(SURFACE)

B. BARNETT  
22 AC.± (SURFACE)  
47-017-4245



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. 677 *Gregory A. Smith*



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

DATE JULY 24, 19 96  
OPERATORS WELL NO. BARNETT # 2  
API WELL NO.

STATE 47 COUNTY 017 PERMIT NO. 04287

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3350P2 (52-41)  
PROVEN SOURCE SCALE 1" = 400'  
OF ELEVATION JUNCTION OF ROADS ELEVATION 966'

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



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

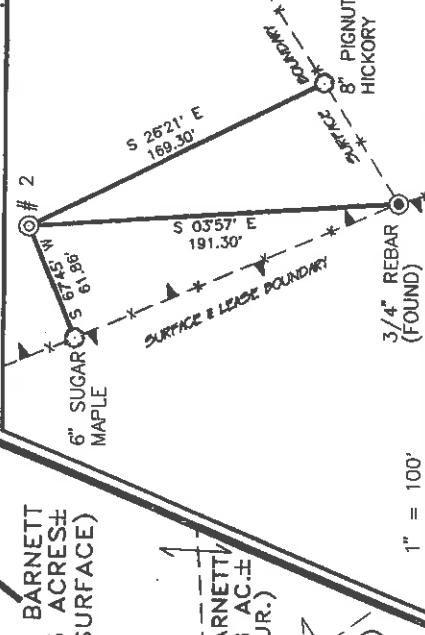
LOCATION : ELEVATION 1278' WATERSHED RIGHT HAND FORK OF LITTLE TOMS FORK  
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'  
SURFACE OWNER GREGORY B. REDIFER (LOT 5) ACREAGE 38 OF 92  
ROYALTY OWNER VADA BARNETT ET.AL. LEASE ACREAGE 180 LEASE NO. \_\_\_\_\_

PROPOSED WORK :  
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 5600'

WELL OPERATOR KEY OIL COMPANY 475 DESIGNATED AGENT JAN CHAPMAN 475  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452

## REFERENCES



1" = 100'

1997

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: REDIFER, GREGORY R.

Operator Well No.: BARNETT #2

LOCATION: Elevation: 1,278.00      Quadrangle: OXFORD

District: WEST UNION      County: DODDRIDGE  
Latitude: 7395      Feet South of 39 Deg. 12 Min. 30 Sec.  
Longitude: 1230      Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit issued: 08/06/96  
Well Work Commenced: 08/11/96  
Well Work Completed: 08/23/96

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) \_\_\_\_\_ 5689'  
Fresh water depths (ft) \_\_\_\_\_ None  
Salt water depths (ft) \_\_\_\_\_ 311', 518'

Is coal being mined in area ( Y / N )? N  
Coal Depths ( ft ): \_\_\_\_\_ None Reported

OPEN FLOW DATA

Warren  
Speechley  
Balltown  
Rileys  
Benson  
Producing formation Elk, Alexander      Pay zone depth ( ft ) \_\_\_\_\_  
Gas: Initial open flow 84 MCF / d      Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Final open flow 462 MCF / d      Oil: Final open flow show Bbl / d  
Time of open flow between initial and final tests \_\_\_\_\_ N/A \_\_\_\_\_ Hours  
Static rock pressure 1200 psig ( surface pressure ) after 96 Hours

Second producing formation \_\_\_\_\_ Commingled \_\_\_\_\_ Pay zone depth ( ft ) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ 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 \_\_\_\_\_ Hours  
Static rock pressure \_\_\_\_\_ psig ( surface pressure ) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORMED 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: 3-26-97

PRESIDENT

APR 28 1997

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 1/2"	123	123	70 sks To Surface
8 5/8"	1785.1	1785.1	520 sks To Surface
4 1/2"	5539.85	5539.85	425 sks
2 3/8"		5149	

3416' - 3450'  
3458' - 3687'  
3718' - 4482'  
4644' - 4964'  
5044' - 5050'  
5288' - 5526'

Barnett #2 (47-017-04287)  
Four Stage Foam Frac - Halliburton

1st Stage: Elk ( 2 holes ) ( 5515.5' - 5515.75' ) 60 Quality Foam. 500 gal. 15% HCL.  
Alexander (10 holes) ( 5169' - 5388.75' ) 60,000# 20/40 sand, 550,000 SCF N2,  
815 bbis foam.

2nd Stage: Benson ( 7 holes ) ( 5045.75' - 5047.25' ) 60 Quality Foam. 750 gal 15% HCL.  
Third Riley ( 4 holes ) ( 4946.25' - 4947' ) 30,000# 20/40 sand, 354,000 SCF N2,  
522 bbis foam.

3rd Stage: Riley ( 6 holes ) ( 4612' - 4613.25' ) 60 Quality Foam. 750 gal 15% HCL.  
Balltown ( 4 holes ) ( 4181' - 4181.75' ) 5,000# 80/100 sand, 30,000# 20/40 sand,  
406,000 SCF N2, 603 bbis foam.

4th Stage: Speachley ( 11 holes ) ( 3471.75' - 3580' ) 60 Quality Foam, 1,000 gal 15% HCL.  
Warren ( 4 holes ) ( 3428' - 3437.75' ) 10,000# 80/100 sand, 40,000# 20/40 sand,  
473,000 SCF N2, 680 bbis foam.

WELL LOG

Fill	0	5	
Sand & Shale	5	112	
Red Rock	112	115	
Sand & Shale	115	170	
Red Rock & Sand & Shale	170	434	
Sand	434	444	
Shale & Red Rock	444	518	Damp @ 311'
Sand	518	523	
Sand & Shale & Red Rock	523	712	
Sand	712	724	Damp @ 518'
Sand & Shale & Red Rock	724	1257	
Sand & Shale	1257	2027	
Little Lime	2027	2074	
Big Lime	2074	2134	
Big Injun	2134	2207	
Shale	2207	2345	
Weir	2345	2444	
Shale	2444	2546	
Berea	2546	2562	
Sand & Shale	2562	2757	
Gordon	2757	2781	
Shale	2781	3416	
Warren	3416	3450	
Shale	3450	3458	
Speachley	3458	3687	
Shale	3687	3718	
Balltown	3718	4482	
Shale & Sand	4482	4568	
Riley	4568	4644	
Shale	4644	4942	
3rd Riley	4942	4964	
Shale	4964	5044	
Benson	5044	5050	
Sand & Shale	5050	5288	
Alexander	5288	5398	
Sand & Shale	5398	5496	
Elk	5496	5526	
Shale	5526	5689	
T.D.	5689		

Gas Checks  
 2040' No Show  
 2133' No Show  
 2504' No Show  
 2999' 10/10ths 1" w/H<sup>2</sup>O  
 3400' 10/10ths 1" w/H<sup>2</sup>O  
 4018' 40/10ths 1" w/H<sup>2</sup>O  
 4510' 12/10ths 2" w/H<sup>2</sup>O  
 4913' 12/10ths 2" w/H<sup>2</sup>O  
 5220' 12/10ths 2" w/H<sup>2</sup>O  
 TD 6/10ths 2" w/H<sup>2</sup>O  
 Collars 4/10ths 2" w/H<sup>2</sup>O

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

017 4287  
526

- 1) Well Operator: KEY OIL COMPANY <sup>475</sup> 2565B <sup>8</sup>
- Operator's Well Number: BARNETT #2 3) Elevation: 1278'
- Well type: (a) Oil X / or Gas X / Issued 08/06/96
- (b) If Gas: Production X / Underground Storage Shallow X / Deep / 439 Expires 08/06/98
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- 7) Approximate fresh water strata depths: 100
- 8) Approximate salt water depths: -- Permitting Office of Oil & Gas 1/5/1996
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mines? Yes No X /
- 11) Proposed Well Work: DRILL, STIMULATE, PRODUCE New Well
- 12)

**RECEIVED**  
WV Division of  
Environmental Protection  
AUG 15 1996

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4	ERW	42	40	0
Fresh Water	8 5/8	ERW	23	1278	345 SKS. TO SURFACE
Coal					<u>38CS918-11.3</u>
Intermediate					<u>38CS918-11.2.2</u>
Production	4 1/2	J-55	10.5	5500	450 SKS.
Tubing	1.5				
Liners					<u>38CS918/11.1</u>

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

3027  
303275

For Office of Oil and Gas Use Only

Fee(s) paid: Plat WW-9 Reclamation Fund Bond Stamp WPC2 Agent

Office of Permitting  
STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator: NONE (b) Coal Owner(s) with Declaration

(a) Name GREGORY R. REDIEER Name NONE  
Address RT. 1 BOX 87 Address

(b) Name NEW MILTON, WV 26411  
Address (b) Coal Owner(s) with Declaration  
Name  
Address

(c) Name  
Address Name  
Address

6) Inspector MIKE UNDERWOOD (c) Coal Lessee with Declaration  
Name  
Address

Address RT. 2 BOX 135  
SALEM, WV 26426  
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

X 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:

- X 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 KEX OIL COMPANY  
By: *Karen Cook*  
Its: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452

Telephone 304-269-7102

Subscribed and sworn before me this 30TH day of JULY 1996

My commission expires MARCH 24, 2003

