

# BURGESS LEASE 19.5 ACRES± WELL # 2

I.L. MORRIS  
26 AC.±

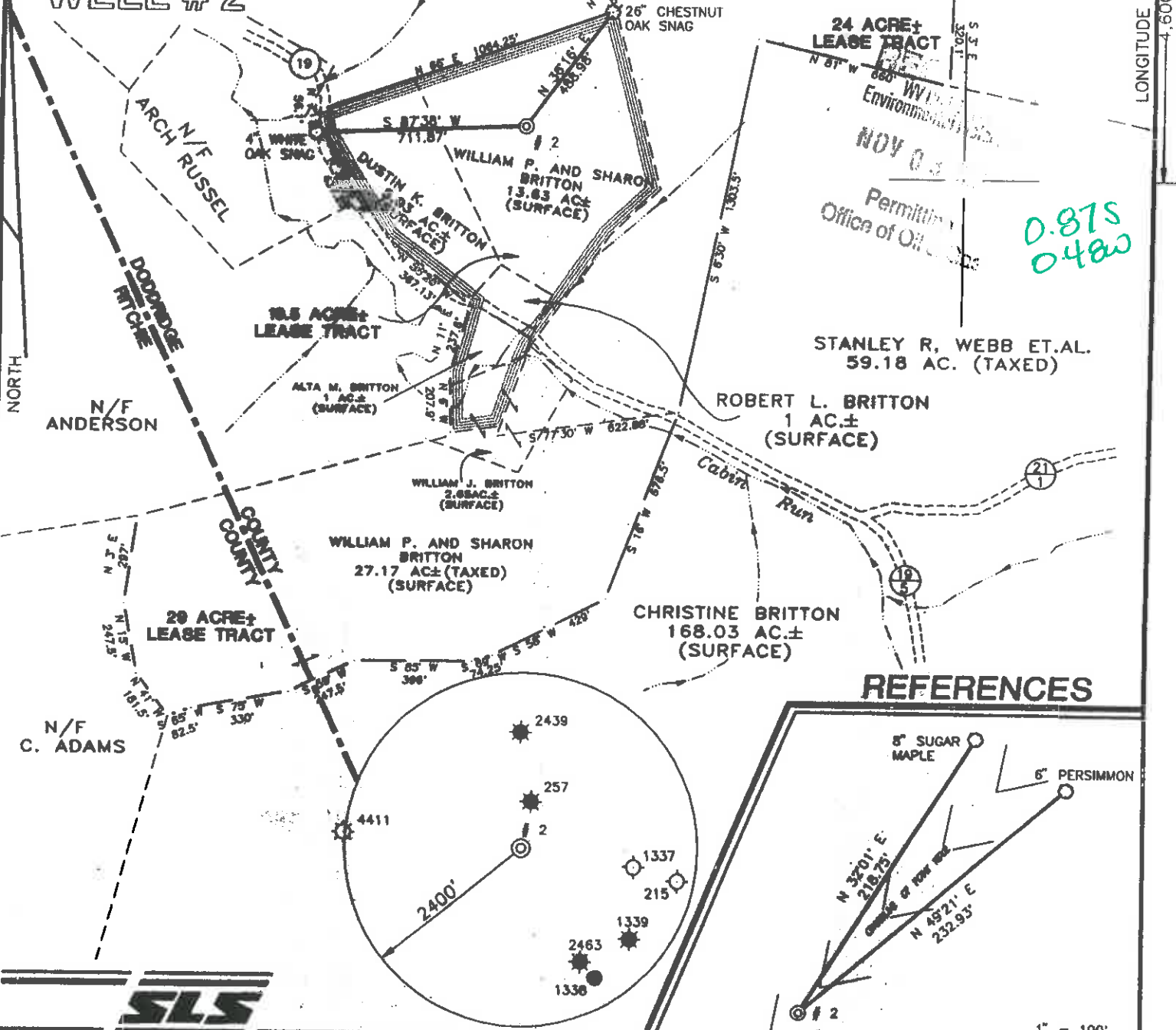
WILLIAM P. AND SHARON  
BRITTON  
22.02 AC.±  
(SURFACE)

I.L. MORRIS  
88.5AC.±

LATITUDE 39°15'00"

2,610'

LONGITUDE 80°52'30"



24 ACRE±  
LEASE TRACT  
NOV 0 3  
Permitting  
Office of Oil & Gas

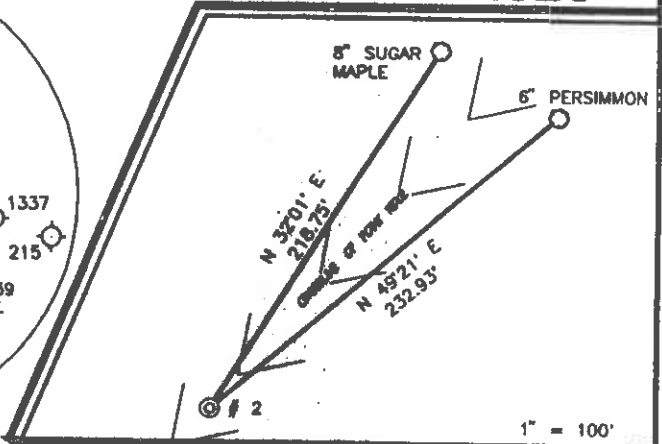
*0.875  
0.480*

STANLEY R. WEBB ET.AL.  
59.18 AC. (TAXED)

ROBERT L. BRITTON  
1 AC.±  
(SURFACE)

CHRISTINE BRITTON  
168.03 AC.±  
(SURFACE)

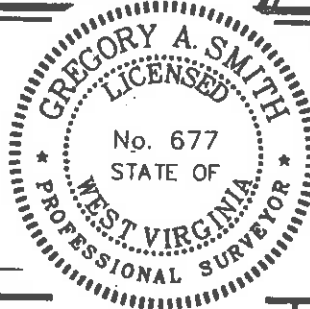
### REFERENCES



1" = 100'

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 OCTOBER 14, 19 97  
 OPERATORS WELL NO. BURGESS # 2  
 API WELL NO. 47-017-04413  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3814P2 (60-61)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1191' SCALE 1" = 500'

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



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

LOCATION : ELEVATION 1061' WATERSHED CABIN RUN  
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE PULLMAN 7.5'

SURFACE OWNER WILLIAM PAUL AND SHARON D. BRITTON ACREAGE 13.63  
 ROYALTY OWNER HAROLD R. BURGESS ET. AL. LEASE ACREAGE 19.5 OF 72.5

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 5600'

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

*6-6 89*

COUNTY NAME PERMIT

WR-35

12 - Nov - 97  
API # 47 - 17 - 04413

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

Well Operator's Report of Well Work

Farm name: BRITTON, WILLIAM P.

Operator Well No. : BURGESS #2

LOCATION: Elevation: 1,061.00

Quadrangle: PULLMAN

District: CENTRAL

County: DODDRIDGE

Latitude: 4600 Feet South of 39 Deg. 15 Min. 0 Sec.

Longitude: 2610 Feet West of 80 Deg. 30 Min. 0 Sec.

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD  
Permit Issued: 11/12/97  
Well Work Commenced: 12/14/97  
Well Work Completed: 12/23/97  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth ( feet ) 5721'  
Fresh water depths ( ft ) 30', 194', 1049'  
Salt water depths ( ft ) NONE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement - Fill Up Cu. Ft.
11 3/4"	125.95'	125.95	100 sks To Surface
8 5/8"	1897.35'	1897.35'	560 sks To Surface
4 1/2"	5404'	5404'	470 sks
2 3/8"		5272'	

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

OPEN FLOW DATA

Warren	3394' - 3494'
Balltown	3861' - 4520'
Riley	4564' - 4646'
Benson	4988' - 5016'
Elk	5184' - 5194'
Producing formation Alexander	Pay zone depth ( ft ) 5232' - 5316'
Gas: Initial open flow 15 MCF / d	Oil: Initial open flow 0 Bbl / d
Final open flow 1,508 MCF / d	Oil: Final open flow show Bbl / d
Time of open flow between initial and final tests N/A	Hours
Static rock pressure 1825 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 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 1, 1998

PRESIDENT

11/13/97

DODD 4413

**Burgess #2 ( 47-017-04413)  
Four Stage Foam Frac - Halliburton**

1 <sup>st</sup> Stage:	Alexander ( 9 holes ) ( 5292.50' to 5305' ) Elk ( 3 holes ) ( 5188' to 5188.50' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 812 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 2 holes ) ( 4995.50' to 5012.75' )	60 Quality Foam. 750 gal. 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 617 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 14 holes ) ( 4587.25' to 4625.50' )	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 749 bbls foam.
4 <sup>th</sup> Stage:	Balltown ( 10 holes ) ( 3886.50' to 4388.50' ) Warren ( 4 holes ) ( 3458' to 3472' )	60 Quality Foam. 1,000 gal 15%-HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

**WELL LOG**

Sand	0	30	
Sand & Shale	30	85	
Red Rock & Shale	85	110	
Sand	110	155	¼" H <sub>2</sub> O @ 80'
Sand & Shale & Red Rock	155	254	Hole damp @ 200'
Sand	254	290	
Sand & Shale & Red Rock	290	588	
Sand & Shale	588	1478	
Red Rock & Shale	1478	1509	
Sand & Shale	1509	1604	
Sand	1604	1670	
Sand & Shale	1670	2022	
Little Lime	2022	2040	
Shale	2040	2055	
Big Lime	2055	2135	
Big Injun	2135	2163	
Shale	2163	2359	
Weir	2359	2490	<b>GAS CHECKS</b>
Shale	2490	2542	1957' - No Show
Berea	2542	2551	2507' - No Show
Shale & Sand	2551	3394	3003' - No Show
Warren	3394	3494	3714' - No Show
Shale	3494	3861	4480' - No Show
Balltown	3861	4520	4852' -No Show
Shale	4520	4564	5412' - 2/10 <sup>ths</sup> - 1" w/H <sub>2</sub> O
Riley	4564	4646	TD - 2/10 <sup>ths</sup> - 1" w/H <sub>2</sub> O
Sand & Shale	4646	4912	
Third Riley	4912	4960	
Shale	4960	4988	
Benson	4988	5000	
Sand & Shale	5000	5184	
Upper Elk	5184	5194	
Shale	5194	5232	
Alexander	5232	5318	
Shale	5318	5721	
T.D.	5721		

017 4413

24569

- 1) Well Operator: KEY OIL COMPANY 25650 (1) 562
- 2) Operator's Well Number: BURGESS #2 3) Elevation: 1061'
- Well type: (a) Oil X / or Gas X /
- (b) If Gas: Production X / Underground Storage    /  
 Deep    / Shallow X /
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 80'
- 8) Approximate salt water depths: 1751'
- 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 *New Well*
- 12)

Issued 11/12/97  
 Expires 11/12/99  
 NOV 13 1997  
 Permitting  
 Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						<i>380SR/11.3</i>
Fresh Water	11 3/4	ERW	42	132	132	70 SKS. TO SURFACE
Coal						<i>380SR/11.22</i>
Intermediate	8 5/8	ERW	23	1880	1880	505 SKS. TO SURFACE
Production	4 1/2	J-55	10.5		5500	490 SKS.
Tubing	1.5					<i>380SR/11.1</i>
Liners						

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

For Office of Oil and Gas Use Only

*002/25*

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

Plat  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)  Agent

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

- 1) Well Operator: KEY OIL COMPANY
- 2) Operator's Well Number: BURGESS #2 3) Elevation: 1061'
- 4) Well type: (a) Oil X / or Gas X /  
 (b) If Gas: Production X / Underground Storage      /  
 Deep      / Shallow X /
- 5) Proposed Target Formation(s): ALEXANDER
- 6) Proposed Total Depth: 5600 feet
- 7) Approximate fresh water strata depths: 80'
- 8) Approximate salt water depths: 1751'
- 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)

**RECEIVED**  
 WV Division of  
 Environmental Protection  
 NOV 12 1997  
 Permitting  
 District 3

**CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT Fill-up (cu. ft.)
	Size	Grade	Weight per ft.	For drilling	Left in well	
<b>Conductor</b>						
<b>Fresh Water</b>	11 3/4	ERW	42	132	132	70 SKS. TO SURFACE
<b>Coal</b>						<i>J.K. Mehel</i>
<b>Intermediate</b>	8 5/8	ERW	23	1880	1880	505 SKS. TO SURFACE
<b>Production</b>	4 1/2	J-55	10.5		5500	490 SKS.
<b>Tubing</b>	1.5					
<b>Liners</b>						

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

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**For Office of Oil and Gas Use Only**

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

1) Date: OCTOBER 28, 1997  
2) Operator's well number  
BURGESS #2  
3) API Well No: 47-017 - 4413  
State County Permit

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

RECEIVED  
Environmental Protection  
NOV 03 1997  
Permitting  
Office of Oil & Gas

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served: 5) (a) Coal Operator:  
(a) Name WILLIAM P BRITTON Name NONE  
Address RT. 1 BOX 205 Address \_\_\_\_\_  
WEST UNION, WV 26456  
(b) Name \_\_\_\_\_ (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  
  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 KEY OIL COMPANY  
By: [Signature]  
Its: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102

Subscribed and sworn before me this 28TH day of OCTOBER, 19 97

My commission expires MARCH 24, 2003

Notary Public  
OFFICIAL SEAL - NOTARY PUBLIC  
KAREN COOK  
ROUTE 2, BOX 1  
JANE LEW, WV 26378  
My Commission Expires Mar. 24, 2003