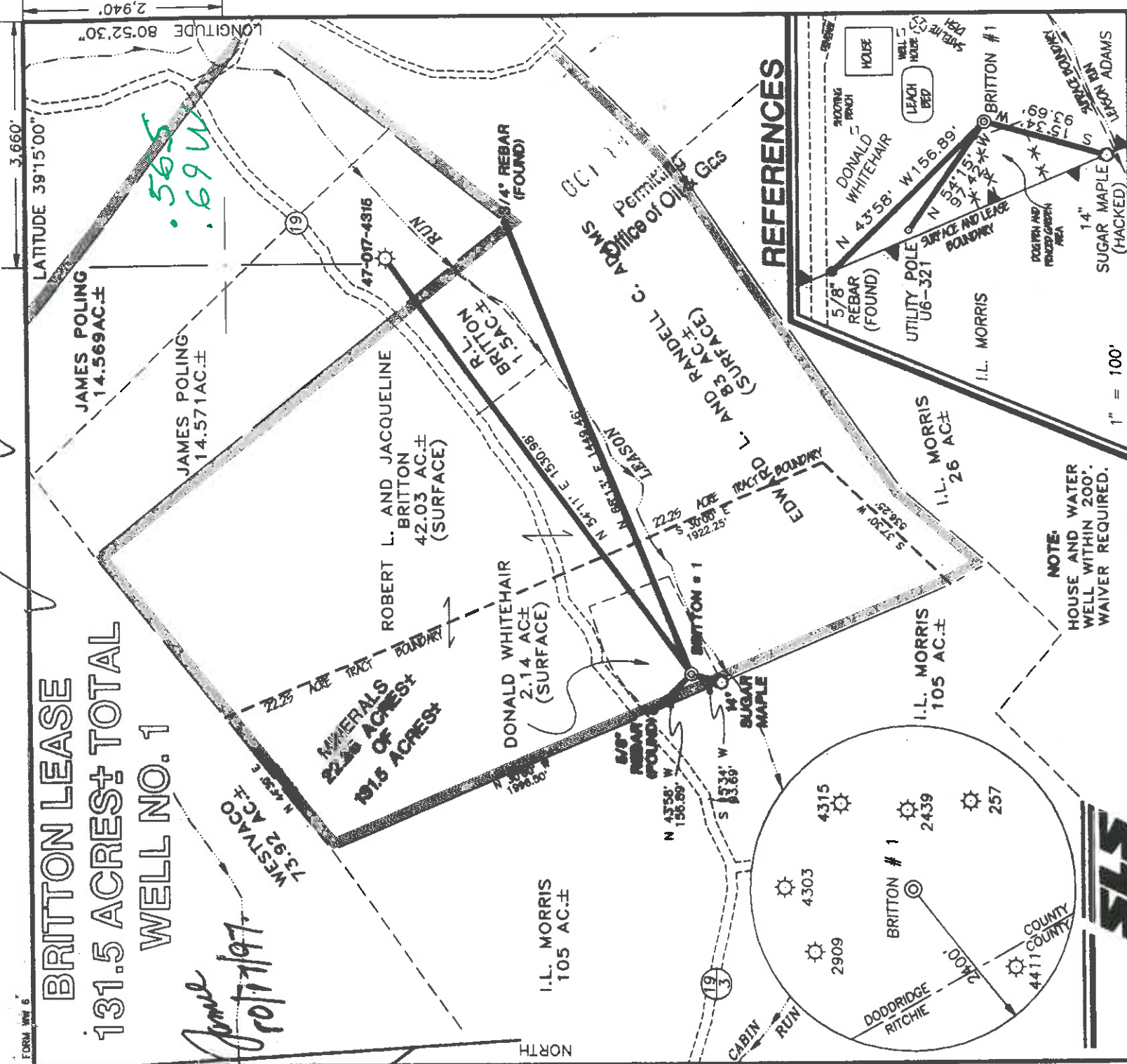


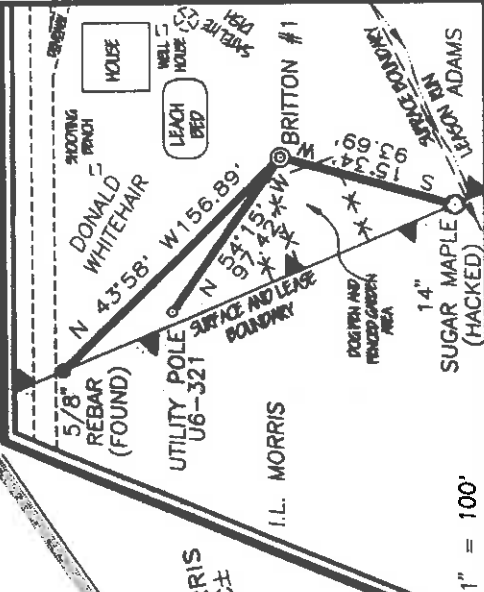
BRITTON LEASE 131.5 ACRES± TOTAL WELL NO. 1

James Poling
10/11/97

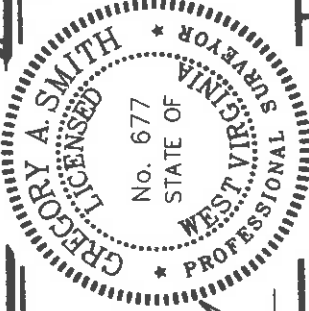
LATITUDE 39°15'00"
LONGITUDE 80°52'30"



REFERENCES



NOTE:
HOUSE AND WATER WELL WITHIN 200'. WAIVER REQUIRED.



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 SEPTEMBER 24, 19 97
OPERATORS WELL NO. BRITTON # 1
API WELL NO. 47-017-04409
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 3804P1 (64-22)
PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 854'
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 832' WATERSHED LEASON RUN
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE PULLMAN 7.5'
SURFACE OWNER DONALD W. AND BONITA L. WHITEHAIR ACREAGE 2.14
ROYALTY OWNER ALTA MARIE BRITTON LEASE ACREAGE 22.25 OF 131.5
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' 17 189'

WELL OPERATOR KEY OIL COMPANY
DESIGNATED AGENT JAN CHAPMAN
ADDRESS 22 GARTON PLAZA WESTON, WV 26452
6-6-89
COUNTY NAME _____ PERMIT _____

WR-35

16 - Oct - 97
API # 47 - 17 - 04409

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

Well Operator's Report of Well Work

Farm name: WHITEHAIR, DONALD W.

Operator Well No. : BRITTON #1

LOCATION: Elevation: 832.00

Quadrangle: PULLMAN

District: CENTRAL
Latitude: 2940 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 3660 Feet West of 80 Deg. 52 Min. 30 Sec.

County: DODDRIDGE

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

Agent: JAN E. CHAPMAN

Inspector: MIKE UNDERWOOD
Permit Issued: 10/17/97
Well Work Commenced: 12/01/97
Well Work Completed: 12/10/97

Verbal Plugging
Permission granted on: _____ Rig
Rotary X Cable _____
Total Depth (feet) 5250'
Fresh water depths (ft) 8', 20', 88', 170'
Salt water depths (ft) NONE

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

OPEN FLOW DATA

Balltown
Rileys
Benson
Elk

Producing formation Alexander
Gas: Initial open flow 21 MCF / d Pay zone depth (ft) 3600' - 4280'
Final open flow 1,524 MCF / d Oil: Initial open flow 0 Bbl / d 4308' - 4703'
Time of open flow between initial and final tests N/A Oil: Final open flow show Bbl / d 4728' - 4741'
Static rock pressure 1850 psig (surface pressure) after 96 Hours 4928' - 4937'
4974' - 5060'

Second producing formation Commingled
Gas: Initial open flow _____ MCF / d Pay zone depth (ft) _____ Bbl / d
Final open flow _____ MCF / d Oil: Initial 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: 

PRESIDENT

Date: April 1, 1998

MAY 1 1998

DODD 4409

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"	131.35'	131.35'	80 sks To Surface
8 5/8"	1670'	1670'	480 sks To Surface
4 1/2"	5115'	5115'	360 sks
2 3/8"		4976'	

Britton #1 (47-017-04409)
Four Stage Foam Frac - Halliburton

1 st Stage:	Alexander (11 holes) (4996.25' to 5045.50') Elk (2 holes) (4934' to 4934.25')	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 808 bbis foam.
2 nd Stage:	Benson (6 holes) (4736.50' to 4737.75') Thirrd Riley (6 holes) (4662' to 4680')	60 Quality Foam. 750 gal. 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 613 bbis foam.
3 rd Stage:	Riley (9 holes) (4329.25' to 4351.50') Balltown (3 holes) (4253' to 4253.50')	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 740 bbis foam.
4 th Stage:	Balltown (12 holes) (3632.50' to 3833.25')	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbis foam.

WELL LOG

Mud	0	10	
Sand & Shale	10	34	1" H ₂ O @ 8'
Shale & Red Rock	34	80	1½" H ₂ O @ 20'
Sand	80	110	1½" H ₂ O @ 88'
Sand & Shale	110	246	½" H ₂ O @ 170'
Sand	246	384	
Sand & Shale & Red Rock	384	547	
Lime & Shale & Sand	547	747	
Sand & Shale & Red Rock	747	1500	
Sand & Shale & Red Rock	1500	1692	
Sand	1692	1698	
Shale	1698	1752	
Little Lime	1752	1772	
Shale	1772	1786	
Big Lime	1786	1854	
Big Injun	1854	1894	
Shale	1894	2098	
Weir	2098	2226	
Shale	2226	2282	
Berea	2282	2288	
Sand & Shale	2288	3164	
Warren	3164	3240	
Shale	3240	3250	
Speechley	3250	3385	
Shale & Sand	3385	3600	
Balltown	3600	4280	
Shale	4280	4308	
Riley	4308	4378	
Sand & Shale	4378	4652	
Third Riley	4652	4703	
Shale	4703	4728	
Benson	4728	4741	
Sand & Shale	4741	4928	
Upper Elk	4928	4937	
Shale	4937	4974	
Alexander	4974	5060	
Shale	5060	5250	
T.D.	5250		

GAS CHECKS

2505' - 18/10^{ths} -1" w/H₂O
3002' - 2/10^{ths} -1" w/H₂O
3525' - 2/10^{ths} -1" w/H₂O
4203' - 2/10^{ths} -1" w/H₂O
4723' - 2/10^{ths} -1" w/H₂O
4910' - 2/10^{ths} -1" w/H₂O
TD - 4/10^{ths} -1" w/H₂O

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

475 25650 (1) 562

- 1) Well Operator: KEY OIL COMPANY 25650 (1) 562
- Operator's Well Number: BRILION #1 3) Elevation: 832'
- Well type: (a) Oil X / or Gas X /
(b) If Gas: Production X / Underground Storage Shallow X /
Deep X / 439
- Proposed Target Formation(s): ALEXANDER
- Proposed Total Depth: 5600 feet
- Approximate fresh water strata depths: 80'
- Approximate salt water depths: 1522'
- Approximate coal seam depths: N/A
- Does land contain coal seams tributary to active mine? Yes / No X /
- Proposed Well Work: DRILL, STIMULATE, PRODUCE *Appl. Well*

24463

Issued 10/17/97
Expired 10/17/99



Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS	CEMENT		
	Size	Grade	Weight per ft. drilling	Left in well	Fill-up (cu. ft.)
Conductor					
Fresh Water	11 3/4	ERW	42	132	70 SKS. TO SURFACE
Coal					
Intermediate	8 5/8	ERW	23	1650	445 SKS. TO SURFACE
Production	4 1/2	J-55	10.5	5400	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 MW-9 MW-2B Bond _____ (Type)

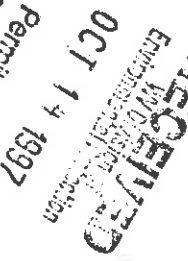
001923

1) Date: SEPTEMBER 29, 1997

2) Operator's well number
BRITTON #1

3) API Well No: 47 - 017 - 4409
State County

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



NOTICE AND APPLICATION FOR A WELL WORK PERMIT
Office of Oil & Gas

4) Surface Owner(s) to be served: 5) (a) Coal Operator:
 (a) Name DONALD M. WHITEHAIR Name NONE
 Address RT. 1 BOX 47 Address _____
GREENWOOD, WV 26415
 (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
 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 KEY OIL COMPANY
 BY [Signature]
 RESIDENT
 Address 22 GARTON PLAZA
WESTON, WV 26452
 Telephone 304-269-7102

Subscribed and sworn before me this 29TH day of SEPTEMBER 19 97
 My commission expires MARCH 24 2003
Karen Cook

