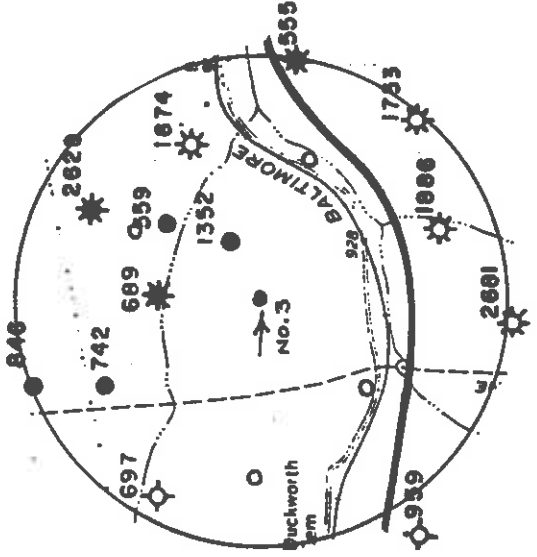


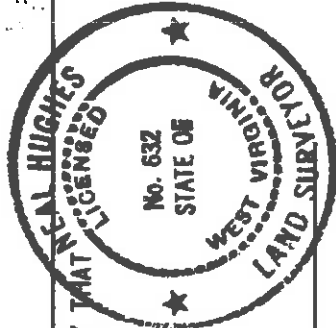
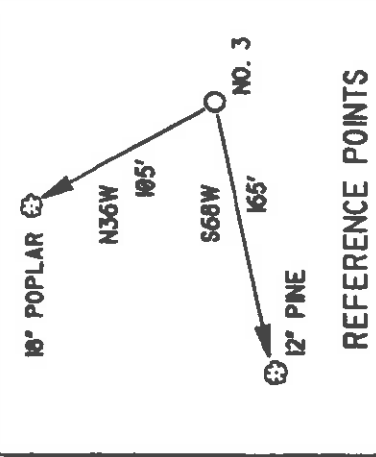
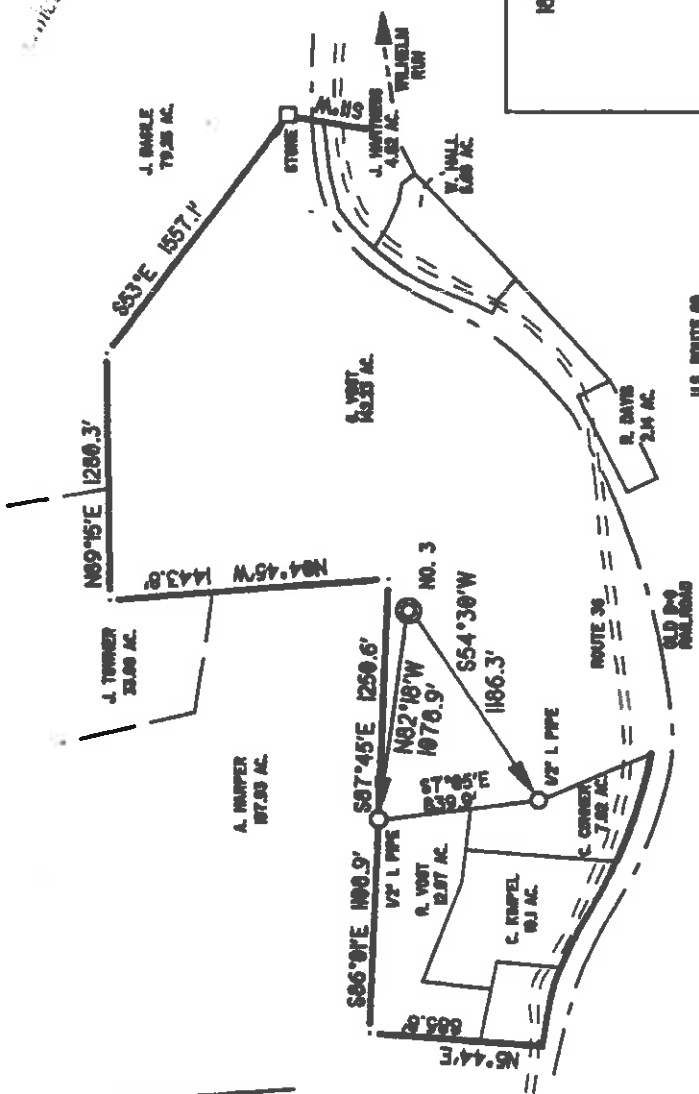
7,000'

LATITUDE 39°17'30"

LONGITUDE 80°50'00"



0.35  
54 S



I THE UNDERSIGNED, DO 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.

L.I.S. *Neal Hughes*  
632

(\*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

DATE FEBRUARY 19 19 97  
OPERATORS WELL NO. P. WRIGHT 3

API WELL NO. 47 - 017-04378  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 97-08  
PROVEN SOURCE OF ELEVATION ROAD-RR INTER. 928' SCALE 1" = 1000'

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

LOCATION: ELEVATION 1058' WATERSHED WILHELM RUN  
DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION  
SURFACE OWNER GREGORY VOGT, ET UX ACREAGE 142.23  
ROYALTY OWNER PATRICK WRIGHT LEASE ACREAGE 208

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  
ADDRESS 22 GARTON PLAZA WESTON, WV 26452  
DESIGNATED AGENT JAN JAPMAN JUN 19 1997  
ADDRESS 22 G. TON PLAZA WESTON, WV 26452

COUNTY NAME PERMIT

WR-35

18 - Jun - 97  
API # 47 - 17 - 04378



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

Well Operator's Report of Well Work

Farm name: VOGT, GREGORY

Operator Well No. : P. WRIGHT #3

LOCATION: Elevation: 1,058.00

Quadrangle: WEST UNION

District: CENTRAL

County: DODDRIDGE

Latitude: 4950 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 7000 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: 06/18/97  
Well Work Commenced: 11/16/97  
Well Work Completed: 11/21/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig

Total Depth ( feet ) 5348'

Fresh water depths ( ft ) NONE

Salt water depths ( ft ) 1561'

Is coal being mined in area ( Y / N ) ? N

Coal Depths ( ft ) : NONE

OPEN FLOW DATA

Balltown  
Rileys  
Benson

Producing formation \_\_\_\_\_ Alexander  
Gas: Initial open flow \_\_\_\_\_ Show \_\_\_\_\_ MCF / d Pay zone depth ( ft ) 3774' - 4480'  
Final open flow 1,524 \_\_\_\_\_ MCF / d Oil: Initial open flow \_\_\_\_\_ 0 \_\_\_\_\_ Bbl / d 4500' - 4887'  
Time of open flow between initial and final tests \_\_\_\_\_ N/A \_\_\_\_\_ Hours Oil: Final open flow \_\_\_\_\_ 4934' - 4946'  
Static rock pressure 1800 \_\_\_\_\_ psig ( surface pressure ) after \_\_\_\_\_ 96 \_\_\_\_\_ Hours Oil: Initial open flow \_\_\_\_\_ 5198' - 5280'

Second producing formation \_\_\_\_\_ Commingled  
Gas: Initial open flow \_\_\_\_\_ MCF / d Pay zone depth ( ft ) \_\_\_\_\_  
Final open flow \_\_\_\_\_ MCF / d Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours Oil: Final open flow \_\_\_\_\_ Bbl / d  
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: 

PRESIDENT

Date: April 18, 1998

MAY 21 1998

Dodd 4318

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up - Cu. Ft.
11 3/4"	129.95	129.95	70 sks To Surface
8 5/8"	1680.50	1680.50	485 sks To Surface
4 1/2"	5301'	5301'	370 sks
2 3/8"		5220'	

P. Wright #3 (47-017-04378)  
Four Stage Foam Frac - Halliburton

1<sup>st</sup> Stage: Alexander ( 12 holes ) ( 5153.50' to 5269.25' )    60 Quality Foam. 500 gal 15% HCL.  
60,000# 20/40 sand, 550,000 SCF N2,  
812 bbis foam.

2<sup>nd</sup> Stage: Benson ( 8 holes ) ( 4939.25' to 4941' )    60 Quality Foam. 750 gal 15% HCL.  
Third Riley ( 4 holes ) ( 4883.75' to 4887.50' )    50,000# 20/40 sand, 481,000 SCF N2,  
712 bbis foam.

3<sup>rd</sup> Stage: Riley ( 8 holes ) ( 4524.25' to 4542.50' )    60 Quality Foam. 1,000 gal 15% HCL.  
Balltown ( 6 holes ) ( 4319.25' to 4447.75' )    5,000# 80/100 sand, 45,000# 20/40 sand,  
502,000 SCF N2, 743 bbis foam.

4<sup>th</sup> Stage: Balltown ( 12 holes ) ( 3934.75' to 4165.50' )    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 and Clay	0	10	
Red Rock	10	25	
Sand & Shale & Red Rock Sand	25	85	
Red Rock & Shale & Sand	85	194	
Red Rock & Shale & Sand	194	1011	
Sand & Shale & Red Rock Sand	1011	1035	
Sand & Shale & Red Rock Sand	1035	1491	
Sand & Shale	1491	1560	
Shale	1560	1827	
Little Lime	1827	1943	
Shale	1943	1967	
Big Lime	1967	1992	
Big Injun	1992	2066	
Shale	2066	2120	
Weir	2120	2238	
Sand & Shale	2238	2414	
Gordon	2414	2886	
Shale & Sand	2886	2896	
Warren	2896	3372	
Shale	3372	3422	
Speechley	3422	3435	
Shale	3435	3562	
Balltown	3562	3774	
Shale	3774	4480	
Riley	4480	4500	
Sand & Shale	4500	4584	
Third Riley	4584	4856	
Shale	4856	4894	
Benson	4894	4934	
Shale	4934	4946	
Alexander	4946	5198	
Sand & Shale	5198	5280	
T.D.	5280	5348	

Damp @ 1561'

Gas Checks

2512' - No Show  
3011' - No Show  
3819' - No Show  
4501' - No Show  
4906' - No Show  
5111' - No Show  
TD - No Show

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

1) Well Operator: KEY OIL COMPANY 25650 671 (1) ~~X~~  
Operator's Well Number: P. WRIGHT #3 3) Elevation: 1058'

Well type: (a) Oil X / or Gas X / Drilled 06/18/97  
(b) If Gas: Production X / Underground Storage / Shallow X / Expires 06/18/99

Proposed Target Formation(s): ALEXANDER

Proposed Total Depth: 5600 feet

7) Approximate fresh water strata depths: 95'

8) Approximate salt water depths: -0-

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 Prod Well.

12)

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT. DRILLING	FOOTAGE INTERVALS	CEMENT
Conductor	11 3/4	ERW	42	30	0
Fresh Water	8 5/8	ERW	23	1058	285 SKS. TO SURFACE
Coal					
Intermediate					
Production	4 1/2	J-55	10.5	5450	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  WPCP  
 Plat  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)

23791

1) Date: MAY 19, 1997  
2) Operator's well number  
P. WRIGHT #3  
3) API Well No: 47 - 017 - 4378  
State County Perm

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:  
(a) Name GREGORY VOGT Name NONE  
Address RT. 1 BOX 30AB Address \_\_\_\_\_  
GREENWOOD, WV 26415  
(b) Name \_\_\_\_\_ (b) Coal Owner(s) with Declaration  
Address \_\_\_\_\_ Name \_\_\_\_\_  
(c) Name \_\_\_\_\_ Address \_\_\_\_\_  
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] PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102  
Subscribed and sworn before me this 19TH day of MAY, 1997  
My commission expires MARCH 24, 2003

