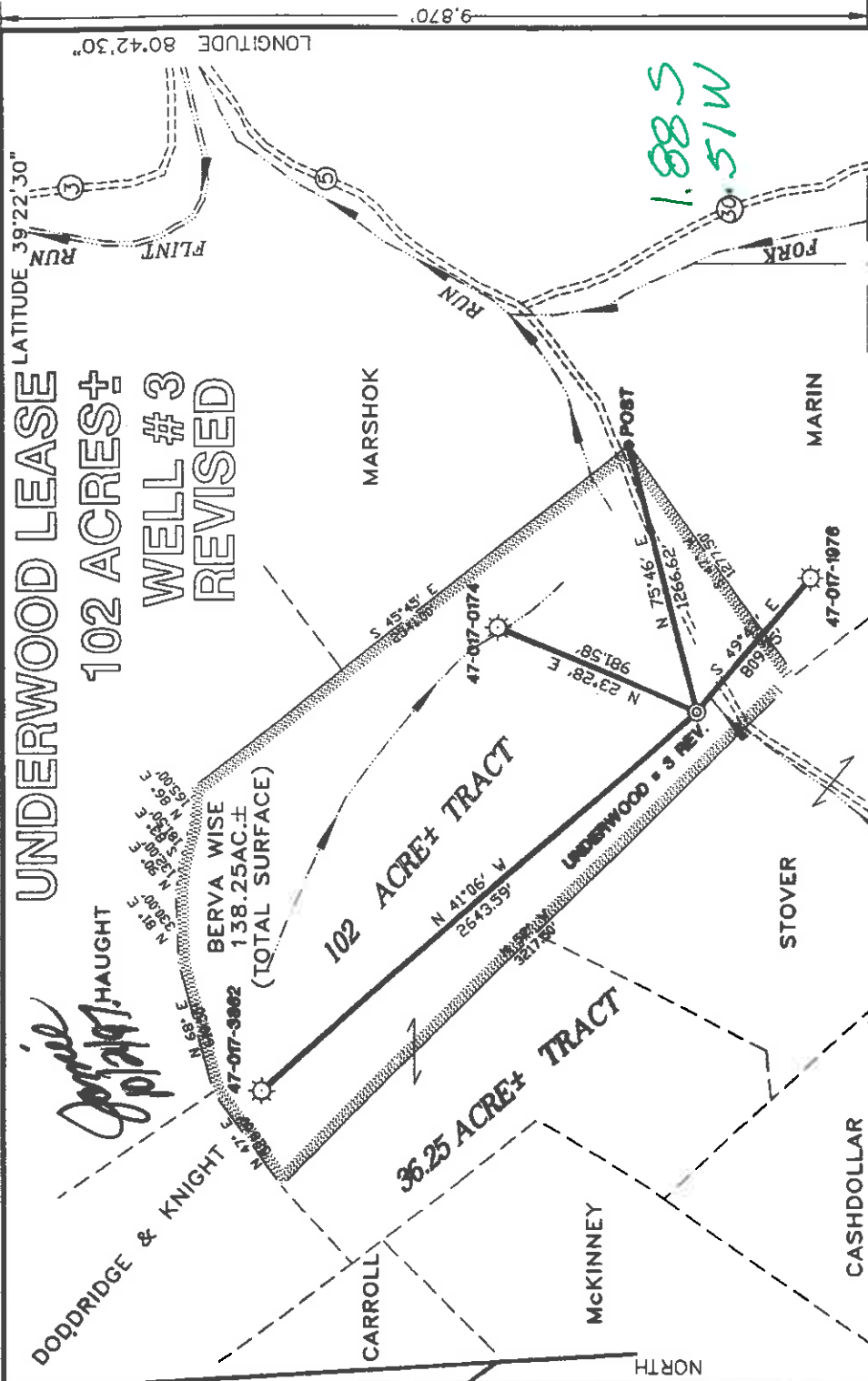
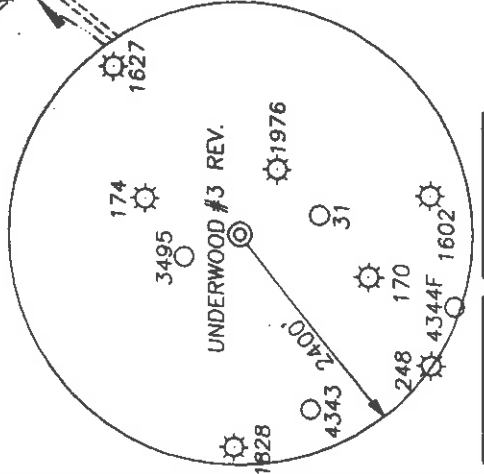


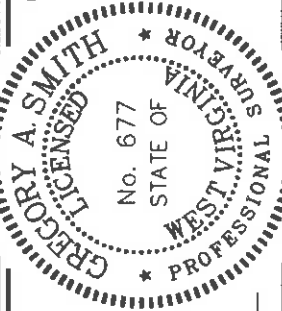
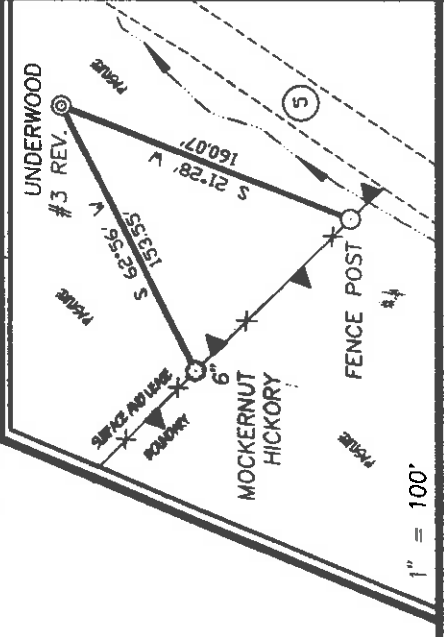
# UNDERWOOD LEASE 102 ACRES± WELL #3 REVISED



1.885  
51W



## 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 SEPTEMBER 23, 19 97  
OPERATOR'S WELL NO. UNDERWOOD # 3 REVISED  
API WELL NO. 47-017-0446  
STATE WV COUNTY POVERTY PERMIT

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

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2392P3R (64-14)  
PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 792' SCALE 1" = 800'

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

LOCATION : ELEVATION 845' WATERSHED POVERTY RUN IF

DISTRICT GRANT COUNTY DODDRIDGE QUADRANGLE SMITHBURG 7.5'

SURFACE OWNER BERVA WISE ACREAGE 138.25

ROYALTY OWNER F.H. UNDERWOOD LEASE ACREAGE 102

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) Riley / BENSON TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH 5100'

WELL OPERATOR PEAKE ENERGY, INC. DESIGNATED AGENT TOM LIBERATORE 03 1997  
ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164 ADDRESS P.O. BOX 8 RAVENSWOOD, WV 26164

**WR RECEIVED**  
WV Division of  
Environmental Protection

JAN 09 1998

**STATE OF WEST VIRGINIA**  
Division of Environmental Protection  
Section of Oil and Gas

2 OCT 1997  
API# 47-017-04406

**Permitting**  
**Office of Oil & Gas**      **WELL OPERATOR'S REPORT OF WELL WORK**

Farm Name: WISE, BEVA      Operator Well No.: UNDERWOOD#3

Location:      Elevation: 845' GL      Quadrangle: SMITHBURG 7.5'

District: GRANT      County: DODDRIDGE  
Latitude: 9870 Feet      South of 39 DEG      22 MIN      30 SEC  
Longitude: 2710 Feet      West of 80 DEG      42 MIN      30 SEC

Company: **PEAKE ENERGY, INC.**  
**P. O. BOX 8**  
**RAVENSWOOD, WV 26164**

Agent: **THOMAS S. LIBERATORE**

Inspector: **MIKE UNDERWOOD**  
Permit Issued: 10/02/97  
Well Work Commenced (spud): 10/22/97  
Well Work Completed (T.D.): 10/30/97

Verbal Plugging  
Permission Granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet): 5105

Fresh Water Depths (feet):  
30  
Salt Water Depths (feet):  
1068

Is coal being mined in the area? no  
Coal Depths (ft): none present

Casing & Tubing (Size-O.D.)	Used In Drilling (feet)	Left in Well (feet)	Cement Type (sacks)
9 5/8	331	331	145 SX CLASS A
7	1345	1345	215 SX CLASS A
4 1/2	5001	5001	110 SX 50/50 POX

**OPEN FLOW DATA**

Producing formation **BENSON\***      Pay zone depth (ft) 4833-4867  
Gas: Initial open flo n/a      MCF/D      Oil: Initial open flow      0 BBL/D  
Final open flow 350      MCF/D      Final open flow      0 BBL/D  
Time of open flow between initial and final tests      n/a      Hours  
Static rock pressure 1420      psig (surface pressure) after      24      Hours

2nd producing form. **RILEY\***      Pay zone depth (ft) 4350-4623  
Gas: Initial open flo n/a      MCF/D      Oil: Initial open flow      n/a      BBL/D  
Final open flow n/a      MCF/D      Final open flow      n/a      BBL/D  
Time of open flow between initial and final tests      n/a      Hours  
Static rock pressure n/a      psig (surface pressure) after      n/a      Hours  
**\*OPENFLOWS & ROCK PRESSURES ARE COMBINED**

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 GEOLOGIC RECORD OF ALL FORMATIONS, INCLUDING COAL, ENCOUNTERED BY THE WELLBORE.

For:  **PEAKE ENERGY, INC.**

By: Thomas S. Liberatore, General Manager  
Date: January 9, 1998

JAN 10 1998

WR-35  
(Reverse)

API / Permit 47-017-04406  
Peake Well # UNDERWOOD# 3  
Elevation: 845' GL

**DETAILS OF PERFORATING, FRACTURING, OR PHYSICAL CHANGE, ETC.**

Benson      Perts(ft) 4829-4837 4 holes/ft, 32 holes  
Frac      75% Foam Frac. 43,102# of 20/40 sand. 571,000SCF N2.  
            235 BBLs H2O. Breakdown=2694psi. ATP=3600psi.

Riley      Perts(ft) 4615-4622, 4 holes/ft, 28 holes  
Frac      75% Foam Frac. 28,000# of 20/40 sand. 498,000SCF N2  
            160 BBLs H2O. Breakdown=3822psi. ATP=3875psi.

WELL LOG ROCK TYPE OR FORMATION NAME	TOP	BOTTOM	REMARKS
SAND	0	400	
SHALE W/SAND STRINGERS	400	1132	
RED ROCK	1132	1200	
SHALEY LIME	1200	1384	
SANDY LIME	1384	1517	
LITTLE LIME	1517	1615	
SHALE	1615	1690	
BLUE MONDAY	1690	1724	
BIG LIME (GREENBRIER)	1724	1810	
BIG INJUN SAND	1810	1900	
POCONO INJUN	1900	1943	
POCONO SHALE	1943	2035	
WEIR	2035	2140	
SHALE	2140	2203	
BEREA SAND	2203	2210	
SHALE	2210	2275	
GANTZ	2275	2310	
SHALE	2310	2341	
50/30 FOOT SANDS	2341	2470	
GORDON	2470	2530	
SHALE	2530	4101	
BRADFORD SAND	4101	4188	
SHALE	4188	4350	
RILEY	4350	4623	
SHALE	4623	4832	
BENSON	4832	4866	TD
UP DEV SILTS/SANDS	4866	5106	
TOTAL DEPTH (LOGGERS')	5106		
TOTAL DEPTH (DRILLERS')	5105		

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

1) Well Operator: Peake Energy, Inc. (37085) (3) 611  
2) Operator's Well Number: F. H. Underwood #3 3) Elevation: 845' GL

Well type: (a) Oil      / or Gas X /  
(b) If Gas: Production X / Underground Storage      /  
Deep      / Shallow X /  
*Issued 10/02/97*  
*Expires 10/02/99*

Proposed Target Formation(s): Riley/Benson

Proposed Total Depth: 5100' KB      feet

Approximate fresh water strata depths: 200 +

Approximate salt water depths: 1182'

Approximate coal seam depths: No Coal Present

Does land contain coal seams tributary to active mine? Yes      / No X /

Proposed Well Work: To drill a new well and stimulate by fracturing

12)     

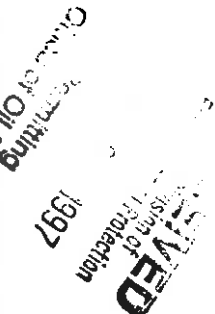
RECEIVED  
WV Division of  
Environmental Protection  
OCT 02 1997  
Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOR DRILLING	LEFT IN WELL	FILL-UP (cu. ft.)	CEMENT
Conductor							
Fresh Water	9-5/8"	H-40	32-36#	300'	300'		Cement to Surface
Coal							
Intermediate	7"	J-55	17#	1300'	1300'		Cement to Surface
Production	4-1/2"	J-55	10.5#	5100'	5100'	200 sks +	
Tubing							
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)



1) Date: September 30, 1997  
Operator's well number  
2) F. H. Underwood #3  
3) API Well No: 47 - 017 - 4406  
State        County        Permit       

**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 Berry Wise Name N/A  
 Address 5733 Kentucky Ave. Address         
Pittsburgh, PA 15232
- (b) Name        (b) Coal Owner(s) with Declaration  
 Address        Name N/A  
 Address
- (c) Name        Name         
 Address        Address
- 6) Inspector Mike Underwood (c) Coal Lessee with Declaration  
 Address Rt 2, Box 135 Name N/A  
Salem, WV 26426-0135 Address         
 Telephone (304)- 288-4604

**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 22-6 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)

**INSTRUCTIONS TO SURFACE OWNERS NAMED ABOVE**

(Continued on Reverse)

The well operator named below is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months.

Well Operator Peake Enterprises, Inc.  
 By: [Signature]  
 Its: General Manager  
 Address P O Box 8  
Ravenswood, WV 26164

Subscribed and sworn before me this 1st day of October, 1997  
 My commission expires 6-11-2000

