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WV DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FEB 16 1998

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: PRUNTY, WILLIAM

Operator Well No. : PRUNTY #3

LOCATION: Elevation: 815.00

Quadrangle: OXFORD

District: SOUTHWEST

County: DODDRIDGE

Latitude: 2900 Feet South of 39 Deg. 12 Min. 30 Sec.

Longitude: 9100 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: 05/07/97  
Well Work Commenced: 06/03/97  
Well Work Completed: 06/17/97

Verbal Plugging  
Permission granted on: \_\_\_\_\_ Rig  
Rotary X Cable \_\_\_\_\_ 5149'

Total Depth ( feet ) \_\_\_\_\_

Fresh water depths ( ft ) 17', 40', 50', 342'

Salt water depths ( ft ) NONE

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

Coal Depths ( ft ) : NONE


OPEN FLOW DATA

Warren  
Speechley  
Balltown  
Rileys  
Benson  
Alexander  
3084' - 3159'  
3170' - 3290'  
3502' - 4190'  
4236' - 4630'  
4662' - 4675'  
4900' - 4994'

Producing formation \_\_\_\_\_ Pay zone depth ( ft ) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF / d Oil: Initial open flow \_\_\_\_\_ Bbl / d  
Final open flow 1,617 MCF / d Oil: Final open flow \_\_\_\_\_ Bbl / d  
Time of open flow between initial and final tests \_\_\_\_\_ N/A Hours  
Static rock pressure 1700 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: February 16, 1998

PRESIDENT

MAX 98 1998

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
11 3/4"			
8 5/8"	842.95'	842.95'	220 sks To Surface
4 1/2"	5102'	5102'	495 sks
2 3/8"		4907'	

Prunty #3 (47-017-04363)  
Five Stage Foam Frac - Halliburton

1 <sup>st</sup> Stage:	Alexander ( 11 holes ) ( 4927.50' to 4972' )	60 Quality Foam. 500 gal. 15% HCL. 60,000# 20/40 sand, 550,000 SCF N2, 807 bbls foam.
2 <sup>nd</sup> Stage:	Benson ( 5 holes ) ( 4667.50' to 4668.50' ) Third Riley ( 3 holes ) ( 4607' to 4607.50' ) Second Riley ( 2 holes ) ( 4525.25' to 4545.50' )	60 Quality Foam. 750 gal 15% HCL. 40,000# 20/40 sand, 417,000 SCF N2, 612 bbls foam.
3 <sup>rd</sup> Stage:	Riley ( 6 holes ) ( 4277.50' to 4278.75' ) Balltown ( 4 holes ) ( 4045.50' to 4052' )	60 Quality Foam. 750 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 643 bbls foam.
4 <sup>th</sup> Stage:	Balltown ( 12 holes ) ( 3530.50' to 3812.00' )	60 Quality Foam. 1,000 gal 15% HCL. 5,000# 80/100 sand, 35,000# 20/40 sand, 438,000 SCF N2, 636 bbls foam.
5 <sup>th</sup> Stage:	Speechley ( 2 holes ) ( 3183.75' to 3184.00' ) Warren ( 8 holes ) ( 3126.25' to 3154.25' )	60 Quality Foam, 750 gal 15% HCL. 5,000# 80/100 sand, 45,000# 20/40 sand, 502,000 SCF N2, 684 bbls foam.

WELL LOG

Topsoil and Gravel	0	18	
Red Rock & Sand & Shale	18	87	
Sand	87	128	1" H <sub>2</sub> O @ 17'
Sand & Shale & Red Rock	128	468	½" H <sub>2</sub> O @ 40'
Sand & Shale	468	1260	1" H <sub>2</sub> O @ 50'
Sand	1260	1315	2" H <sub>2</sub> O @ 342'
Sand & Shale	1315	1720	
Little Lime	1720	1745	
Shale	1745	1754	
Big Lime	1754	1800	
Big Injun	1800	1865	<u>Gas Checks</u>
Shale	1865	2032	1698' - No Show
Weir	2032	2165	2011' - No Show
Shale	2165	2223	2508' - No Show
Berea	2223	2236	3315' - No Show
Sand & Shale	2236	3084	4080' - No Show
Warren	3084	3159	4530' - No Show
Shale	3159	3170	4808' - No Show
Speechley	3170	3290	
Shale	3290	3502	
Balltown	3502	4190	
Shale & Sand	4190	4236	
Riley	4236	4414	
Second Riley	4414	4584	
Shale	4584	4590	
Third Riley	4590	4630	
Shale	4630	4662	
Benson	4662	4675	
Shale	4675	4900	
Alexander	4900	4994	
Sand & Shale	4994	5149	
T.D.	5149		

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

Well Operator: KEY OIL COMPANY <sup>175</sup> 25655 (1) 526 3) Elevation: 815'  
 Operator's Well Number: PRUNTY #3  
 Well type: (a) Oil X / or Gas X / Issued 05/07/97  
 (b) If Gas: Production X / Underground Storage    / Expires 05/07/99  
 Deep    / 409 / Shallow X /     
 Proposed Target Formation(s): ALEXANDER  
 Proposed Total Depth: 5500 feet  
 Approximate fresh water strata depths: 75'  
 Approximate salt water depths: -0-  
 Approximate coal seam depths: N/A  
 Does land contain coal seams tributary to active mine? Yes    / No X /  
 Proposed Well Work: DRILL, STIMULATE, PRODUCE

23490

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	815	815	220 SKS. TO SURFACE
Coal						
Intermediate						
Production	4 1/2	J-55	10.5	5350	5350	450 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  WW-9  WW-2B  Bond \_\_\_\_\_ (Type)

1) Date: 4-23-97  
2) Operator's well number  
3) PRUNTY #3 API Well No: 47 - 017 - 4363  
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 WILLIAM PRUNTY  
Address 5917 DASHWOOD DRIVE  
BETHEL PARK, PA 15102

Name NONE  
Address

(b) Name  
Address

(b) Coal Owner(s) with Declaration  
Name  
Address

(c) Name  
Address

Name  
Address

6) Inspector MIKE UNDERWOOD  
Address RT. 2 BOX 135  
SALEM, WV 26426  
Telephone (304) - 782-1043

(c) Coal Lessee with Declaration  
Name  
Address

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]  
Its: PRESIDENT  
Address 22 GARTON PLAZA  
WESTON, WV 26452  
Telephone 304-269-7102, 1997

Subscribed and sworn before me this 23 day of APRIL, 1997  
My commission expires MARCH 24, 2003

