

IV-35 (Rev 8-81)

DIVISION OF OIL& GAS DEPARTMENT OF ENERGY



State of Mest Nirginia Department of Mines

Wil und Cas Division

Date	Decem	ber 4,	1986	
Operat				
Well :	NO	3 - 2452	2	
Farm	Mildre	ed McCla	ain #3	
*******		- 041		2

(Continue on Ebeders project

WELL OPERATOR'S REPORT

FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1778' Watershed	WHites Car	np Fork		
District: Collins Settle County Lewi	S	Quadrangle	Walkers	AITTE
				•
CMPANY Union Drilling, Inc.	T .	1	Toff	Cerent
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Casing	Used in	1	fill up Cu. ft.
DESIGNATED AGENT Joseph C. Pettey	Tubing	Drilling	IN METT	Cu. Ic.
ADDRESS P.O. Drawer 40, Buckhannon, WV 26201	Size 20-16			•
SURFACE CWNER William F. Shobe, et.al.	Cord.			
ADDRESS 44 Sixth St., Buckhannon, WV 26201	13-10"	22.50'	pulled	
MINERAL RIGHTS OWNER W.L. McClain, et.ux.	9 5/8			
ADDRESS	8 5/8	1016.35'	1016.35	321 cf
OIL AND GAS INSPECTOR FOR THIS WORK	w 7		<u> </u>	
Stephen Casey ADDRESS Rt.2, Box 232D, Jane Lew,	8 5 1/2			
PERMIT ISSUED 7/16/86	4 1/2		4320.50	681 cf
DRILLING COMMENCED 10/21/86	3			
DRILLING COMPLETED 10/26/86	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			·
ON		Der	oth 460	o' feet
CEOLOGICAL TARGET FORMATION Benson Depth of completed well 4602 feet				
Depth of completed well 4602 feet	S=1+	fee	t.	
Water strata depth: Fresh 130' feet; Coal seam depths: 424/428, 496/500, 735/746	n Is coa	1 being mi	ned in th	e area? no
Coal seam depths: 424/428, 496/300, 733/74				-
OPEN FLOW DATA -		_		243! 500
Producing formation Bayard, Benson	<u>_</u>	ay zone de	pen	
man flow 30 Mcf/d	Oll: 3	initiai ope	U LTOW	ا إخالك
Final open flow 671 Mcf/d	_	Final open	ETOM	BOI/
Time of open flow between ini	tial and	final test	s 2 n	ours
Static rock pressure 725# psig(surfa	ace measu	rement) aft	er 24 no	jurs shut i
(If applicable due to multiple completion	on)			
	;	Pay zone de	epth	ree
second producing formation				₹ 1_ 3
Second producing formation Gas: Initial open flow Mcf/d Final open flow Mcf/d	011:	Initial ob	=11 110W	

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIPULATING, PHYSICAL CHANGE, ETC.

Nowsco - 2 stage Foam Frac - 11/5/86

2366/72 - Bayard - 45,000# sand, 346 bbls water and 374,000 scf nitrogen

4241/43 - Benson - 45,000# sand, 346 bbls water and 373,000 scf nitrogen

WELL LOG

FORMATION	OLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
	Sand & Shale	0	424	1/2" stream fresh water @130'
	Coal	424	428	·
	Sand & Shale	428	496	
	Coal	496	500	
	Sand & Shale	500	735	
	Coal	735	740	
	Sand & Shale	740	1588	
		1588	1630	
	Blue Monday	1656	1792	
	Big Lime	1799	1866	
	Injun	1870	1894	
	Squaw	1959	1980	
	Gantz	2070	2089	
	Gordon	2135	2144	
	4th Sand	2223	2249	
	5th Sand	2342	2380	
	Bayard	2470	2479	
	Elizabeth	3	2625	
	Warren	2591	2828	
	Upper Speechly	2787	2928	
	Speechly	2918	3339	
	Balltown	3288	*	
	Bradford	3584	3644	
· • •	Riley	3952	3959	
	Benson,	4217	4226	D Gas Check @TD 8/10ths thru 1" =
	A Marketing as a second and a second a second and a second and a second and a second and a second a second and a second a second and a second and a second and a		4602° T	Gas Check with 8/10ths thru 1
4				30 mc
			and the second second	
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	-			A Section of the Sect
		1	1	

(Attach separate sheets as necessary)

Union Drilling, Inc.

Well Operator

Date: Joseph C. Pettey. Vice President of Production

12/4/86

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic Note: detailed geological record of all formations, including well, encountered in the drilling of a well."

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June 17 <u>86 دا .</u> 1) Date:_ FILE COPY $_{\text{KM}}$ WW-2(B)2) Operator's 2452 (Obverse) Well No._ 47 041 - 37323) API Well No. 7/85 State County JUN 3 0 1986 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

DIVISION OF OIL & GAS APPLICATION FOR A WITH A PROPERTY OF THE PRO DIVISION OF OIL & GAS APPLICATION FOR A WELL WORK PERMIT
WELL TYPE PARTMENT OF ENERGY, OIL AND GAS DIVIS
WELL TYPE PARTMENT OF ENERGY, OIL AND GAS DIVIS
WELL TYPE PARTMENT OF ENERGY, OIL AND GAS DIVIS Shallow XX Deep __ B (If "Gas", Production XX / Underground storage _ Watershed: Whites Camp Fork Elevation: 1778 LOCATION: Quadrangle: <u>Walkersville</u> District: Collins Settlement County: Lewis WELL OPERATOR Union Drilling, InCODE: 50550 7) DESIGNATED AGENT Joseph C. Pettey

Address Post Office Drawer 40 8 Address Post Office Drawer 40 Buckhannon, WV 26201 Buckhannon, WV 26201 9) DRILLING CONTRACTOR: OIL & GAS INSPECTOR TO BE NOTIFIED Name Union Drilling, Inc.
Post Office Drawer 40 Name Stephen Casey Route 2 Box 232-D Address Buckhannon, WV 26201 Jane Lew, WV 26378 _/ Stimulate_XX Drill XX / Drill Redrill 10) PROPOSED WELL WORK: ____/ Perforate new formation_ Plug off old formation_ Other physical change in well (specify) 11) GEOLOGICAL TARGET FORMATION, Benson 12) Estimated depth of completed well, 4600 26 feet; salt 13) Approximate trata depths: Fresh, _ Is coal being mined in the area? 14) Approximate coal seam depths: 15) CASING AND TUBING PROGRAM PACKERS CEMENT FILL-UP SPECIFICATIONS Weight FOOTAGE INTERVALS CASING OR TUBING TYPE For drilling Left in well (Cubic feet) Grade per ft. New Size 30' 30' Kinds 11-3/4 32 X Conductor Fresh water Sizes Coal 1000' to surface 1000' 8-5/8 23 Х Intermediate 4-1/5 as required Depths set 4600' 4600' J-55 $10^{\frac{1}{2}}$ X Production Tubing Perforations: Bottom Top OFFICE USE ONLY DRILLING PERMIT July 16 47-041-3732 Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper No. 8) Prior to the construction of roads, locations and pits for any permitted work. It district oil and gas inspector 24 hours before actual permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. July 16, 1988 unless well work is commenced prior to that date and prosecuted with due diligence. Permit expires Casing WPCP Plat: Fee Other Bond: Agent: 46241 NOTE: Keep one copy of this permit posted at the drilling location. See the reverse side of the APPLICANT'S COPY for instructions

GAS __LIQUID INJECTION_ _WASTE DISPOSAL STATE COUNTY _SHALLOW_<u>~</u> (IF "GAS,") PRODUCTION ✓ STORAGE ____ DEEP__ YHITES CAMP FORK LOCATION: ELEVATION 1778 _WATER SHED . DISTRICT COLLINS SETTLEMENT COUNTY QUADRANGLE YALKERSYILLE SURFACEOWNER YILLIAM F. SHORE & BAYID Crawf ACREAGE_ OIL & GAS ROYALTY OWNER ANNA K. PUCKETT LEASE ACREAGE. LEASE NO. 62842 _DRILL DEEPER_ REDRILL FRACTURE OR PROPOSED WORK: DRILL CONVERT_ STIMULATE_ PLUG OFF OLD FORMATION___PERFORATE NEW _OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

D REPLUG__ 6-6 Caue Run ESTIMATED DEPTH 4600' _CLEAN OUT AND REPLUG__ PLUG AND ABANDON_ JUL 2 1 1986 TARGET FORMATION BENSON DESIGNATED AGENT JOSEPH C. PETTEY WELL OPERATOR UNION DRILLING

DRAWER 40 P.O. DRAWER 40 ADDRESS 57 BUCKHANNON, WV. Z6Z01 BUCKHANNON, MY. 26201