



API

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47-

1-02303

RECEIVED

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

Section of Oil and Gas

Well Operator 's Report of Well Work No.:

Farm namaffice of ON BAGAS JOHN PAUL Operator Well

BJ-65

LOCATION: Elevation: 1,780.00 Quadrangle: A AUDRA

District: PHILIPPI Latitude: 7110 Feet Longitude 2720 Feet South of of 80 County:
Deg.
Deg. BARBOUR 7 Min. 30 Sec. 2

O ·

Company:BERRY ENERGY, C 310 STILES ST., CLARKSBURG, WV Agent: DAVID B. BERRY CONSULTANTS P.O. BOX 5 271542411 Tubing Casing Used Drilling in

Inspector: PHILLIP TRACY
Permit Issued: 08,
Well work Commenced: 09,
Well work Completed: 10,
Verbal Plugging
Permission granted on:
Rotary X Cable
Total Depth (feet) 5404
Fresh water depths (ft) 08/30/95 09/25/95 10/13/95 Rig

(ft) 1 130

Is coal being mined Coal Depths (ft):175, in a area 0, 230, (Y/N)? , 33, 443 443,

water

depths

þ

N 45 Size 11 $\dot{\infty}$ 4 1/2 5/8 3/4 NO 4729.45 863 \aleph CHANGE B Left in 4729.45 863 CASING 0 Well Cement |Fill Up |Cu. Ft. 285 200 0 SKS SKS SKS

OPEN FLOW DATA

Second producing formation Gordon Pay zone depth Gas: Initial open flow * MCF/d Oil: Initial open flow Final open flow * MCF/d Final open flow Time of open flow between initial and final tests Static rock Pressure * psig (surface pressure) after Producing formation Recompletion of 4th Pay zone depth (Gas: Initial open flow N/A MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow N/A Time of open flow between initial and final tests

Static rock Pressure 700 psig (surface pressure) after N/A Bb1/d N/A Bb1/d N/A Bb1/d (ft) 2162-2166 N/A Bb1/d N/A Bb1/d Hours

* See above, zones comingled - Prior to recompletion, the well was cemented with 144 sacks of 50/50 Poz through 4 squeeze holes at 2244-2245 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. Hours

By: July 9, CONSULTANTS

For:

BERRY

ENERGY,

DETAILS OF PERFORMIED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC.

Set Solid plug at 2251', Shot 4 Squeeze holes at 2244-2245'

Cemented well with 144 sacks 50/50 Poz.

4th Sand Perforated from 2162-2166 - 14 holes. Frac with 50,000 lbs. of 20/40 253 barrels of H₂0 and 462,630 SCF N₂.

Gordon Perforate from 2004-2008', 14 holes, frac with 50,000 lbs of 20/40 208 barrels of H₂0 and 425,112 SCF N₂.

WELL LOG

				Sand & Sandy Shale	LK.	Saily State	- 1			Sand & Shale	5th Sand	Sand, Red Rock & Shale		Sand & Sandy Shale & Red Rock	& Sandy Shale	ypues 3		DIO LILIRE	Dig Time	ROCK, Share a	מבור מביור ה	Salio & Black Shale	,	Hard Sand		COAL	Sandy Shale & Sand	Sand & Sandy Shale	Coal	Sand	Coal	Sand	Conductor	FORMATION COLOR HARD OR SOFT
				4648	4641	3982	3000	00.0	3976	2245	2215	1985		1690	1500	1315		OTZT	CE	705	1	534	530	445		443	350	233	230	180	175	18	0	TOP FEET
				5404 TD	4648	4641		2000	CROF	3976	2245	2215		1985	1690	1500		1315	OTZT	795_		755	534	530		445	443	350	233	230	180	175	18	BOITIOM FEET
							022% AA TI-		ch a drill collars				696,000 c	Gas Ck @ 5151 20/10-2" w/mercury			1,478,000 cu. it.	ict.			. 853,000 cu. It.	M/MS			603,000 cu. ft.		r	Gas ck @ 2272 16/10-7" w/water		Gas ck ଡ଼ି 1438 No Show	1	1" stream @ 130'	H	REMNIKS Including indication of all fresh and salt water, coal, oil and gas

35 8-81)

007 6 1985

State of Hest Buguin Well No. 47

Bipartment of Mines

Bil und Gas Bivision

API No. 47

API No. 47 - 001 -J. Paul Jones October 1, 1986 2303

Static rock pressurepsig(surface measurement) afternours sauc an	
of open flow between initial and final testsnous	
Final open flow Mcf/d Oil: Final open flow	
mitial open flow wcf/d oil: Initial open flow	
ng formation Benson Pay Zone Capta	
low between unitial are rement) after of 1	
river come hours	
tial open flow Mcf/d Oil: Initial open flow	
Producing formation 3rd ELk Pay zone deput 4641-32	
130 feet; Salt 0	
of completed well 5404 feet Rotary x /	
Haverty - Benson	
WORKING. VERBAL PERMISSION OBTAINED	ш ^
- 611	ш
COMPLETED 8/19/86	н П
DRILLING COMMENCED 8/12/86	\Box
PERMIT ISSUED 7/28/86 4,729.45 4,729.45 4,729.45	m
ins, WV 26241 5 1/2	ı
DIL AND GAS INSPECTOR FOR THIS WORK FILLING 7	Ų,
8 5/8 863 603	154
INERAL RIGHTS OWNER Same as surface 9 5/8	
26416 13-10" 30 0	\Box
aul Jones Cord.	c
T.C. SCA SCA	Ų,
The Box 48 Buckhannon, WV 26201 Size	12
Box 48, Buckhamion, wy 2000- Thibing Drilling in Well	74
JaJ Enterprises, inc. Caner Casing Used in Left fill	296
	1.1
arbourQua	1.4
Watershed	
I TYPE: Oil / Gas x / Liquid Injection / Waste Disposal / (If "Gas," Production x / Underground Storage / Deep / Shallow x /)	H
AKINA A	
WELL OPERA	

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANCE, ETC.

4648-52 (9 holes) 4641-42 (4 holes)

3976.5 -81.5

(14 holes)

3rd. Elk: Perforations:
Foam frac
Benson: Perforations:
Foam frac

BOTTOM HOLE PRESSURE Pf=PweXGLS

 $t=60 + (0.0075 \times 4729) + 459.7 = 555 \times = 53.35 \times (0.6) (43.15) (0.9) = 1250 \times 2.72^{0.08} = 1250 \times 1.08$ X=53.35 x $\frac{1}{-29609} = 0.000034$ Pf=1250 x 2.72 (0.000034)

Pf= 1350

WEIL LOG

10 2) 12)		\$60 Pers		Sand & sandy shale	3rd Elk	Sandy shale	Benson	Sand & shale		ale	Sand & Sandy Shale & red rock	& sandy	Big Lime	Red rock, sand & shale	Red rock, shale & sand	Sand & black shale	Coal	Hard sand		Sandy shale & sand	Sand & sandy shale	Coal	Sand	Coal	Sand	Conductor	FORMATION COLOR HARD OR SOFT
				4648	4641	3982	3976	2245	2215	1985	1690	1500	1210	795	755	534	530	445	443	.350	233	230	180	175	18	0	TOP FEET
			Brunning TD.	5404 TD.	4648	4641	3982	3976	2245	2215	1985	1690 1500	1315	1210	795	755	534	530	445	443	350	233	230	180	175	18	BOMOM FEET
	Di					622,000 cu.ft.	A CTTTT COTTAIN	Cas of Arill collars 12/10-2"	090,000 64.11.	Gas ck @ 5151 20/10-2" w/mercury		,	Gas ck @ 4622 12/10-7" w/water			Gas ck @ 3995 4/10-7" w/water		() ()	Ck B		t t	Gas ck @ 2272 16/10-7" w/water	£ #1	Cas of a 1438 No show	+ SCIESTI & ISO		Including indication of all free and salt water, coal, oil and c

(Attach separate sheets as necessary)

Date: 10/1/86 Robert Dahlin Geologist

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

FORM WW-2(B) (Obverse) 7/85



1) Date: ULLY -2) Operator's BJ-650
Well No. 47 -001-2303
3) API Well No. State County

Permit

DIVISION OF ON A CASSTATE OF WEST VIRGINIA DEPARTMENT OF APPLICATION FOR A WELL WORK PERMIT

OTE: Keen one conv of this permit posted at the drilling location	Bond:	he permitted weverse hereof. ermit expires.	his permit cov uirements subj b. 8) Prior to th istrict oil and g	ermit aumber_		in., i	Tubing	roduction	ntermediate	resh water	onductor	TUBING TYPE	s) CASING /	12) Estimi13) Appro14) Appro	I) GEOLOGI		0) PROPOSE	Address	8) OIL & GA	Address	6) WELL OP	5) LOCATION:	4) WELL TYPE:	
1120	Agent	July	ering the wellect to the construction in spector	47				<u>ا</u> ب	8 5/8		11 3/4	15	CASING AND TUBING PROGRAM	Estimated depth of completed well, Approximate trata depths: Fresh, Approximate coal seam depths:	Other ph GEOLOGICAL TARGET FORMATION,		PROPOSED WELL WORK:		OIL & GAS INSPECTOR TO BE NOTIFIED Donald Ellis	CL	District: P WELL OPERATOR CA BELLY Address P.O. Belly Address P.O. Belly	E E	>	
	P	Ly 28	ll operator nditions co on of roads 24 hours b	-001-2303				API	API		API	SPECIF:	G PROGE	completed depths: F seam depth	ET FORM				CTOR TO BE	Clarksburg,		(If "Gas", Production 1780		
	at: Ca	, 1988	and well k ntained her locations pefore actu	2303				10# X	24# ×		42# ×	- S		1 .	Other phys	Plug off	Drill XX	Apple Lar , WV 26554	BE NOTIFIE	1 1	Berry Thergy (Berry Press) .	1780	Gas	
	Sin	3 Applican	cation show ein and on the and pits for al permitted									New Used		150 2601 - 3501	Haverty	Plug off old formation.	/ Drill	Lane 554	D	WV 26301	inc. SAPE	I	×××	APPLICA
A.	Fee WP6	on, plat, and fects	his permit covering the well operator and well location shown below is evidence of juirements subject to the conditions contained herein and on the reverse hereof Notifice. 8) Prior to the construction of roads, locations and pits for any permitted work. It istrict oil and gas inspector 24 hours before actual permitted work has commenced.)	- DMEDING FERMI	OFFICE USE			53501	00/1/ 00EF		32	For drilling		O_feet;	Other physical change in well (specify)		deeper				County: 241	Watershed: Tygar		LION FOR A WE
	SWE	rell work is commence	e of permission gran votification must be g rk. In addition, the v		USE ONLY			53501	0 1500-1400		Pulled	FOOTAGE INTERVALS		t, None /		Perforate new formation	Redrill Redrill	Address	9) DRILLING C		<u> </u>	Tygart Valley		LL WURK PERMI
Other		region to expire the specified work is as described in the Notice and Application, plan, and rectamination plan, subject to any modifications and commenced prior to that date and prosecuted with due diligence. The permit expires	Date his permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal re- uirements subject to the conditions contained herein and on the reverse hereof Notification must be given to the District Oil and Gas Inspector, (Refer to be 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 istrict oil and gas inspector 24 hours before actual permitted work has commenced.)	1		0	OR AS REC	SXS OO	TO SURFACE			OR SACKS (Cubic feet)		the area? Yes			/ Stimulate		CONTRACTOR:	12.1	Quadrangle: AUGL DESIGNATED AGENT RICHARD M. Address P.O. Box 4	River		
1		d prosecuted with di	Date cdance with the pertin Oil and Gas Inspector contractor shall notifi	July 28		Top	55 03211033	hs set	er Kulc	Sizes	Kinds	FACKERS		No						mon, Wv 26201	rd M. Reddecliffe Box 48	Snallow		
-		ie diligence.	Refer to the proper	1986		Bottom	KEK		15:05					XX						01	iffe	7,4,6	×	

001-2303-

RECENTED WORKS AND PROBLETION Permitting
Office of Oilde Cast or: AUU 1 4 1935 EPARTMENT OF ENERGY, DIVISION OF OIL WELL WORK PERMIT APPLICATION Permitting
Permitting
Permitting
Permy Energy Consultants & Mgr's., Inc. Well type: Operator's Well (a) (d) 011 Number: If Gas: ProductionX/ Deep/ 430 n(s): Haverty-20 GasX вл-650 Underground Inc. AND GAS. OS 130 1972
CHOINER OS 130 1972
CHOINER OS 130 1972 Storage X 3) Elevation: 1780 Page e of **58130/95**

21022

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Proposed

Target

Formation(s):

5404

feet

Benson

<u>∞</u> 7) 6) Proposed Approximate Approximate Total salt coal seam depths: fresh water Depth: water depths: strata depths: 175'; 80'; 2301; 130 331; 443-45 respective

9) Approximate

10) Does land contain coal seams tributary to active mine? Yes No ×

11) Proposed Well Work: See note on back of sheet

12) HAPE The above casing program is what was actually packers: Kind change in casing program Tubing Production Intermediate Fresh Water Conductor Sizes Depths 11 3/4 4 ∞ 1/2 5/8 Size Tectal SPECIFICATIONS Grade API API API CASING AND TUBING PROGRAM Weight per ft 42# 10# 24# For drilling FOOTAGE INTERVALS 4729' 863 reported on IV35 dated 10/1/86 Pulled Left well 47291 863 in Fill-up (cu. ft 200Sks 285 Sks Sil CEMENT

Divison of Oil and Use Only

Set

WW-2B | Bor Bond

Reclamation

Fund

WPCP

Agent

Plat

Fee(s)

I have read and to the terms and colling in the terms and colling in the interpolation in the	Included is contracts by which is Section 8(d) of I certify the I have served contractory in accompanying documents of the served contractory in the	Address	4) Surface Owlean (a) Name Address Address	Page 1 of Form WW2-A (10-91)
and understand Ch conditions of any nder penalty of la e information submethat based on my obtaining the infoe, and complete that there are sigluding the possible well oper By: Its: Pres Address Address Address March 13, 20 Wger 13, 2001	o THE PERSON(S) s the lease or leich I hold the rist the information the Code of West that as required opies of this not cuments pages 1 that Service (Affified Mail (Postmation (Notice of the Code	Phillip Tracy Rt. 2, Box 37A Montrose, WV 26283 (304) - 636-8798	NOTICE AND APPLICATION Owner(s) to be served: John Paul Jones Rt. 1, Box 283 Philippi, WV 26416	RECEIVED WYDWISION of Environmental Protection AUG 1 4 1995 Permitting Office of Oil & GETATE OF OF ENVIRONMENTAL P
apter 22B and 38 CSR 11-18, and I agree permit issued under this application. W that I have personally examined and am itted on this application form and all inquiry of those individuals immediately rmation, I believe that the information nificant penalties for submitting false lity of fine and imprisonment. ator Befry Energy Consultants & Mgr's., Inc. ator Befry Energy Consultants & Mgr's., Inc. ident P. O. Box 5 Clarksburg, WV 26302-0005 clarksburg, WV 26302-0005 clarksburg day of June Notary Public	r e reconnication		FOR A WELL WO	1) Date: June 2, 1995 2) Operator's well number 3) API Well No: 47 - 001 - 2303. State - County - Permit WEST VIRGINIA ROTECTION, OFFICE OF OIL AND GAS