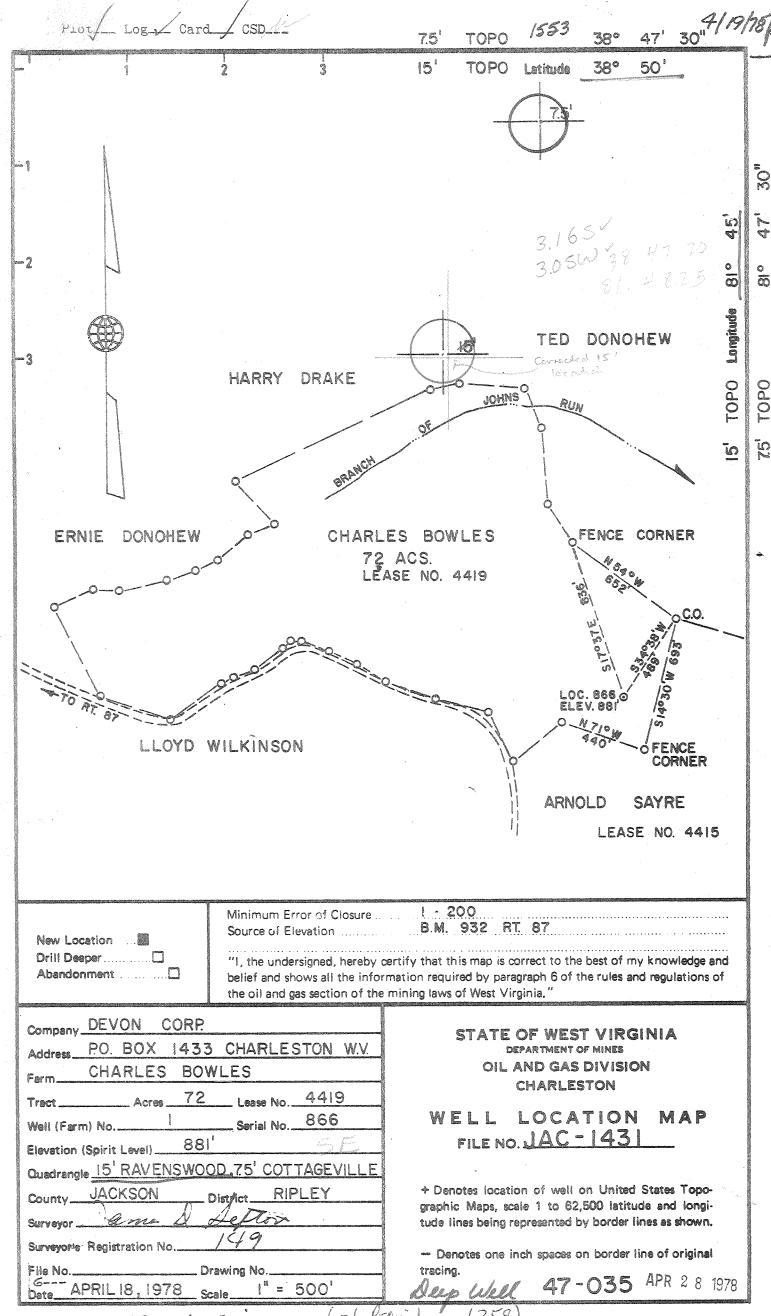


DEEP WEX 950 OWWO

6.0 Providence



mission 6-6 Providence (359)



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

RECORD 15 WELL

Cottageville Quadrangle_ JAC-1431 Permit No.

SEP - 4 1979

47-035-1431

OIL & GAS DIVISION

DEPT-XXXF	MINES
Cable	Gas_XXX
Recycling	Comb.
Water Flood	Storage
Diaman	Tak da

				nizbossi	(Kind)
Company DEVON CORPORATION PO Box 1433, Charles	ton, W. Va.	Casing and	Used in	Left	Cement fill up
Farm Charles Bowles	Acres 72	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Location (waters) Johns Run	and histogram depond as histogram (Salanda glam (1848) are ministrated to such a consequence on some	Size			
Well No.	Elev_001	20-16	A Company Company		gradination page
District Ripley County		Cond.		·	
The surface of tract is owned in fee by_	ing to a secure distribution of the contract o	13-10"			
<u>Charles Bowles</u>	and a grand a grand and the control of the control	9 5/8			100 sax=to surface
Address Rt. 2, Cottageville, W. Mineral rights are owned by Same as	Va.	8 5/8			
Mineral rights are owned by Same as	apove	and the second s	2590	2590	75 sax=625'
Address	The Arts of the Arts and the Ar	5 1/2			
Address Drilling Commenced November 9, Drilling Completed November 17,	19/8	4 1/2	4931	4931	200 sax=2400'
Drilling Completed November 17,	19/0	3			
Initial open flow 87 MCFD XMX flox	bbis.	2			
Final production 188 MCFBu. ft. per da	ybbls.	Liners Used			*
Well open4 hrs. before te		(Note hit of private and private his proposition of the proposition of			
Well treatment details:		Attach copy of	cementing rec	ord.	

Perforated 4½" casing at 4822 to 4824 with 16 shots and at 4832' with 8 shots in Oriskany Sand.

Fractured Oriskany Sand with 45,000# sand and 909 BBLS water

None reported Coal was encountered at ___ _ Inches Fresh water. _Salt Water_ Oriskany Sand 4822-4832 Producing Sand Depth _

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale	0 07 100 115 140 225 515 557 675 705 970 1040	07 100 115 140 225 515 557 675 705 970 1040 1190	electric communicación communicación communicación e e electric communicación communic	nikana ist zava-utara acana sini ana kana kana kana kana kana kana ka
Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Shale Sand Sand Sahel Maxon Sand Big Lime	1190 1298 1360 1403 1412 1440 1495 1520 1545 1563 1767 1862	1298 1360 1403 1412 1440 1495 1520 1545 1563 1767 1862 2019		

47-035-1431

20 2 0 -	Top Feet 15	Bottom Feet	Oil. Gas or Water " Remarks
Formation Color Hard or Soft	AUP FEEL 15	20 5 8 8 8 8 8 8 8 8 8 8 8 8 8	
Shale Injun Sand Shale Coffee Shale Berea Sand Shale Brown Shale Shale Marcellus Shale	2019 2044 2140 2496 2518 2532 3698 4167 4558	2044 2140 2496 2518 2532 3698 4167 4558 4727	
Onondaga L. S. Oriskany Sand Helderberg L. S. Log Total Depth	4727 4804 4842	4804 4842 4949 4949'	
	All states the works with the states of the		
	2000 P. C.		
	endings conference		
		Assessment of the control of th	
			and analysis and a subject of the second
		Transport of the Control of the Cont	i de la companya de l
		Special control of the control of th	en e
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		Books in the state of the state	
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			engits, s stenis
	A Committee of the Comm		A Little Control
	September 1		
		O. C.	
		SECURIOR SEC	
			A 사용하다 사용하다 사용하다 기계 사용하다 기계 사용하다 기계
	and the second relative species of the second relative second relative second relative second relative second	The second secon	

Date	January 9,	19 79
	DEVON CORPOR	ATION
APPROVID	A. C. Yduse	Qual ()wner
80.	, , , , , , , , , , , , , , , , , , ,	İSİ
1, y	4. T. s	lal

MR 3 0 90 Permitting Section oil and Gas Section

WR-35



State of Mest Nirginia

DEPARTMENT OF ENERGY Gil und Gas Bivision

Date	Apri	.1 2	5,	199	90		
Opera	ator's			***************************************			
Well	No.	866					
Farm	Bow1	.es					
APT N	to 47	-	03	35		1/01	

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE	C: Oil / (If "Gas,"	Gas_X / Lic Production	quid Injection X / Undergro	on/ Was	ste Disposa age / Dec	il/	allow /)
LOCATION:	Elevation:_	881	Watershed	Johns R	un		//
	District:	Ripley	County Jack	cson	Quadrangl	Q (C-+	
						<u>Corrage</u>	AITTE
COMPANY O	uinoco Petrole						
	07 Quarrier St		III OF OA	-			
	D AGENT Bill W		on, WV 25301	Casing	Used in	Left	Cement
	Same as Above			Tubing	Drilling	in Well	fill up Cu. ft.
SURFACE OF	WNER Charles	Rowles		Size			
	7 Flagrock Rid		N 25245	20-16 Cond.			
	IGHIS OWNER		V 23243	13-10"			
ADDRESS		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		9 5/8			100 sxs to surface
)IL AND GA	AS INSPECIOR E	OR THIS WO	K Jerry	8 5/8			
	ADDRESS R			7	2590	2590	75 sxs 625'
ERMIT ISS	SUED 7	-27-89	- 170 WINTER OM	5 1/2			
RILLING (DOMMENCED 8	-30-89		4 1/2		4931	TDC 2100' By Log
	COMPLETED 2		*	3			
DUTINOOR	ABLE: PLUGGIN 5 PROGRESSION VERBAL PERM	FROM DRITITA	JC OB	Liners used			
EOLOGICAL	TARGET FORMA	TTON Brow	m Shalo/Roro	\$	4		
					Dept	h 4166	feet
Water	of completed strata depth	: Fresh	foot.	otary	Cable	Tools	
Coal	seam depths:	Observation of the proof of the second of th		Salt	feet		
PEN FLOW	seam depths:_			rs coal]	peing mine	in the	area?No
		_			•		
Gasi	cing formation	Brown S	hale	Pay	zone depti	3701-41	66 feet
•		- TOM	MCI/d	Oil: Init	tial open f	=1000 -	DL7 /3
	a man Open 1.	12.0	Mcf/d	Fina	al open flo	- w	Ph1 /a
Statio		ober 'TTOM D	etween initi	al and fir	nal tests	0/ 5	
(If m	c rock pressu	40 - 74 - 1	psig(surface	measureme	ent) after_	24 hours	s shut in
, ~ , ~ , ~ , · , · , · , · , · , · , ·	ppoole ane	co multiple	completion-	-)			14 m 1 0 A
Gas:	d producing for Initial oven	flav		Pay	zone depth		feet
-	الماري والماري	2 2 0 11	rci/d (Oll: Init	ial open f	10.	D1-1/1
		ICM	Mct/d (Oil: Fina	il open flo	w	Ph1/a
Chari	THE OF	ober trow D	etween initi	al and fir	wal tests_	hou	(S

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

- 1. Set drillable bridge plug at 4270' Oriskany temporally, 100
 2. Perforated 4 1/2" casing and squeezed 50 sacks neat cement. Top of cement behind
- 3. Perforated 3701-4166 w/27 shots. Foam frac'd Brown Shale with 291 bbls. water, 550
- 4. Perforated 2519-2523. Attempted to frac Berea-formation would not break down.

WELL LOG

•	*			
FORMATION COLC	OR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See Original			manufacture and the state of th	
		seguing the second seco		
				·
	·	***		
			Chippenen and the chippenen an	

(Attach separate sheets as necessary)

NOTIFICATION AND ADDRESS OF THE PARTY OF THE	QUINOGO PETROLEUM, INC.			
We	ell Operator	i.		······································
	Frank L			
By:	1000 Dallue			
Date:	Bill W. Backus			
CH CH	_APIII / 16 1991		 	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including soul, encountered in the drilling of a well."

MAY 0 4 1990

307

FORM WW-2B

STATE OF WEST VIRGINIA DIVISION OF OIL AND GAS MIT APPLICATION (3)

	0	inoco Petro	leum. Inc.	40475	(3)	301
Well Opera	ator:	0.0	C Paulos	(47_035_1431)	3) Fle	vation: 881
		•			3) Ele	
Well type						
			Deep_	401	ound Storage Shallow	<u> </u>
Proposed	Target F	ormation(s): <u>Brown</u>	Shale/Berea		
Proposed	Total De	pth: ± 420	00	_ feet		
				ns: <u>none re</u>		
) Approxima	te salt	water dep	ths:	none re	ported	
				none re		
0) Does land 1) Proposed .2)	Well Wor	k: Set bri casing,	dge plug ab perforate	nya Oriskany	sand, re-cemen Brown Shale an	t the 4-1/2" d Berea.
	SI	ECIFICAT		FOOTAGE IN	TERVALS	CEMENT
YPE			Weight	For	Left in	Fill-up
286.3	Size	Grade	per ft.		well	(cu. ft.)
Conductor	9-5/8"			250	250	To surface
resh Water						
Coal					1 1/10	75 sxs
Intermediate	7"			2590	2590	To 1965'
Production	4-1/2"			4	4931	2814-logged 38CSR12-11-1
Tubing						
Liners						CENVE
PACKERS : Ki	nd				- 416	AUG 0 7 1989
Si	zes pths set				n i	VISION OF OIL & GA
(40	-		on of Oil	and Gas Use	only DEP	ARTMENT OF ENER

Well Work Permit

1) Date: July 25, 1989 Form WW2-A Operator's well number 866 - Bowles (09/87)API Well No: 47 - 035 - 1431 -FRAC File Copy 3) DIVISION OF OIL & GAS State - County - Permit DEPARTMENT OF ENERGY STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION 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 <u>Charles & Kitty Bowles</u> Name N/A Address <u>127 Flagrock Road</u> Address Evans, WV 25241 (b) Name (b) Coal Owner(s) with Declaration Address _____ Name ___N/A Address _____ (c) Name Address _____ Address __ Inspector Jerry Tephabock 6) (c) Coal Lessee with Declaration Address Route 1, Box 101-A Name ___N/A Ripley, WV 25271
Telephone (304)-372-6805 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 X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 4 on the above named parties, by: Personal Service (Affidavit attached) Z Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) · I have read and understand Chapter 22B 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

My commission expires December 0, 1997

My commission expires December 0, 1997

Telephone (304) 342-6193
Subscribed and sworn before me this 25th day of _______ July ____, 1989

information, including the possibility of fine and imprisonment.

Well Operator Ouinoco Petroleum, Inc.

By: Ouinoco Petroleum, Inc.

Its: District Manager/District Agent

Address 1207 Quarrier Street, P. O. Box 1433
Charleston, WV 25325





OIL & GAS DIVISION DEFT. OF MINES

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Oil and Gas Division

DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,	
Charleston, W. Va.	DATE April 7, 1978
Surface Owner Charles Bowles	Company DEVON CORPORATION
Rt. 2, Cottageville, W. Va.	Address PO Box 1433, Charleston, W. Va. 2
Mineral Owner Charles Bowles, et al	Farm Charles Bowles Acres 72 ac
Address Rt. 2, Cottageville, W. Va. 25239	Location (waters) Branch of Johns Run
Coal Owner	Well No. 866 Elevation 881
Address	District Ripley County Jackson
Coal Operator Not Operated	
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter 22,	
of the W. Va. Code, the location is hereby approved IN	
for <u>drilling</u> . This permit shall expire if TO	
operations have not commenced by 8-20-78 AD	DRESS Grantsville, W. Va.
PH.	ONE 354-7259
Deputy Director - Oil & Gas Division PH	<u> </u>
GENTLEMEN:	
title thereto, (or as the case may be) under grant or lease date. Bowles, et ux made to Devon and Eason	above named farm or tract of land for oil and gas, having fee ted
19_77, in <u>Jackson</u> County, Book <u>144</u>	Page501
	REDRILL FRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required d with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by reor coal owners at their above shown respective address same day with the mailing or delivery of this copy to the Depa	day before or on the
democracy with the making of denvery of this copy to the Depa	timent of Mines at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL	
	ery truly yours, DEVON CORPORATION
	Sign Name) . C. Hause
	A. C. Youse, District Geologist
활용하는 생명하는 경기는 경기에 가장하는 것이 되었다면 하는데 되는데 그는데 되었다. 그렇게 Address	Sign Name) C. Hause VERXXXXXXXX
1613 WASHINGTON STREET, EAST of	A. C. Youse, District Geologist Box 1433 Street
I613 WASHINGTON STREET, EAST of	A. C. Youse, District Geologist Box 1433 Street
1613 WASHINGTON STREET, EAST of ell Operat.	A. C. Youse, District Geologist Box 1433 Street Charleston,

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

JAC-1431 PERMIT NUMBER

47-035

THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	O XXX DRILL	Deeden	ED A CHITTINE CONTRACTOR A CONTRACTOR		
DRILLING CONTRACTOR: (If Known)		RESPONSIBLE AGENT:			
NAME FWA Drillin	g Company	NAMEBill W			
ADDRESS Box 448, E1	kview, W. Va.		ADDRESS Box 1433, Charleston, W. Va.		
TELEPHONE 965-3379		TELEPHONE 342-3			
ESTIMATED DEPTH OF COMP	PLETED WELL: 4950		CABLE TOOLS		
PROPOSED GEOLOGICAL FOR			CABLE TOOLS		
			E DISPOSAL		
	RECT	OLING WATER FL	OODOTHER		
TENTATIVE CASING PROGRA	M:				
CASING AND TUBING SIZE	USED FOR	LEFT IN	CEMENT FILL UP		
20 - 16	DRILLING	WELL	OR SACKS - CUBIC 1-T.		
13 - 10					
9 - 5/8	250	250	100 000 = 40 0005		
8 - 5/8	200	230	100 sax = to surface		
7	2600	2600	75 sax = 700'		
5 ½					
4 ½		4950	150 sax = 1800'		
2			Perf. Top		
Liners			Perf. Bottom		
		CA CONTRACTOR OF THE STATE	Perf. Top Perf. Bottom		
			Ten. Bottom		
APPROXIMATE FRESH WATER	DEPTHS FEE	m the state of the feeting of the			
APPROXIMATE COAL DEPTHS	None Anticipate	d SALT WATER	FEET		
IS COAL BEING MINED IN TH	IE ADEAS NO	<u>u</u>			
•	HI PALLEA!	BY WHOM?			
TO DRILL:		- 14年7年 年 15月 - 14日 14日 14日 14日 14日 14日 14日 14日 14日 14日			
OF PLAT.	OF OG - 1, \$100.00 PER	MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY		
TO DRILL DEEPER OR REDRIE	LL:				
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR ' MUST ALSO BE SUBMITT	10 1929, A PERMANENT	IGINAL PERMIT NUMBER AN COPY OF THE PLAT AND T	D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
TO FRACTURE - STIMULATE:					
OIL AND/OR GAS WELL O	RIGINALLY DRILLED BEF	FORE JUNE 5 1929 FIVE (5)	COPIES OG - 1, PERFORMANCE		
,	AND UNIGINAL WELL R	ECORD.			
ING ORIGINAL PERM'T NU	RIGINALLY DRILLED ON MBER, AND PERFORMANO	AND/OR AFTER JUNE 5, 192 CE BOND.	9, FIVE COPIES OG - 1, SHOW-		
Required forms must be file four (24) hours in advance.	d within ninety (90) days o	f completion for bond release.	Inspector to be notified twenty-		
(1) nouts in advance.					
			The second secon		
The following waiver must hereof.	be completed by the coal o	perator if the permit is to be i	ssued within ten days of receipt		
WAIVER: I the undersigned, Age	nt for	Coal Company Owner	or Operator of the sector		
this lease have examin-	ed and place on our mine	maps this proposed well locati	on.		
We the	Coal Compan	y have no objections to said we	ell being drilled at this location,		
providing operator has c Code.	complied with all rules and re	egulations in Articles 4, 5, and 7	, Chapter 22 of the West Virginia		
• • • • • • • • • • • • • • • • • • •					
			No.		
		Fo	r Coal Company		
		***************************************	Cont. 100.		
			Official Title		