



6-6 Providence



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

VVELL RECORD 17

Quadrangle Cottageville

SEP - 4 1979 47-035-1443

OIL & GAS DIVISION

D	ENT. DEXX	AINES Oil
	Cable	Gas XXX
	Recycling	Comb
	Water Flood	Storage
	Disposal	metrico - controllerangle/seurop arquirectorangles/person act company

Permit No. JAC-1443 Campany DEVON CO		nankokanosa, populokas ala bio prantonas esta vialente vialente vialente vialente vialente vialente vialente v			Water Floo Disposal	odStorage(Kind)
Company DEVON CON Address PO Box 1433 Parm GRONGE L. (, Charleston	s WV 25325 Acres 120	Casing and Tubing	Used in Drilling	g.	Cement fill up Cu. ft. (Sks.)
Location (waters) SI Well No. 923 Watrict Ripley	ruce Run Rounty January	Eley 897 ackson	Size 20-16 Cond.			
The surface of tract is or George L. Ca	sto. 3110 Bl:	ain Blud	9.5/8	202	202	100 sax=to surface
Address Charleston, Mineral rights are owned	by Same as a	erge in cherch tradest and the characterist has been been been been been been been bee	8 5/8 7	2596	2596	75 sax=625'
Drilling Completed	December 14, December 22,	1978 1978	5 1/2 4 1/2	4875	4875	200 sax=2400'
initial open flow 87 Final production 9.4 M Well open 5	<u>MCFD annix</u> CEDixeniper day.	mosamuramuramu. bbls.	2 Liners Used			The state of the s
Fractured Or Coal was encountered at an arrangement of the contract of the co	Vone reported	e de la companya del la companya de	Salt V Depth	- Inche		
- Formetion - Color		57K-045		Oil, Gas or	Water	* Remarks
Surface Shale Sand Shale Sand Shale Broken Sand Shale Sand	POPO-SI SISSIN MYTHIS MYSSEL SIGHT MYSSEL SI	0 12 195 225 250 286 515 610 667 688 732 783 888 897 1022 1038 1192 1277 1358 1402	12 195 225 250 286 515 610 667 688 732 783 888 897 1022 1038 1192 1277 1358 1402 1414 1448		TOTAL NATION AND THE STATE OF T	
Shale Sand Shale		1448 1542 1560	1542 1560 1706			The state of the s

(over)

47-035-1443

		42-035-1443			
Formation Color	Hard or Soft	Top Feet 77	Bottom Feet	Oil. Gas or Water	FREINGE & C
Sand Shale Maxon Sand Shale Big Lime Shale Injun Sand Shale Coffee Shale Berea Sand Shale Br. Shale Br. Shale Onondaga L. Oriskany Sa Helderberg Log Tota	Shale S. ind L. S.	1706 1727 1785 1869 1883 2010 2034 2136 2495 2518 2531 3692 4152 4535 4698 4773 4802	1727 1785 1869 1883 2010 2034 2136 2495 2518 2531 3692 4152 4535 4698 4773 4802 4900 4900'		
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	January 9	19 79
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	(Yotle)	



WR-35

RECEIVED APR 08 1990

State of Mest Nirginia

DEPARTMENT OF ENERGY
Oil und Osas Bivision

Date	4-4-90	
Operator	's	
Well No.	923	
Farm_	Casto	
APT NO	47 - 035 - 1443 - F	

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT

OF

LOCATION: Elevation: 897.0 Watershed				
District: Ripley County Ja	ackson	Quadrangl	Cottage	ville
COMPANY Quinoco Petroleum, Inc.		/		
ADDRESS 1207 Quarrier St., Charleston, WV 25301	Icacina	Trans in	~ ~,	Cement
DESIGNATED AGENT Bill W. Backus	2.3	Used in		fill up
ADDRESS Same as Above	Tubing Size	prilling	in Mell	Cu. ft.
SURFACE OWNER C. E. Wright	20-16			
ADDRESS 527 Central Ave., Charleston, WV	Cond.			
MINERAL RIGHTS OWNER Same 25302	13-10"		······································	
ADDRESS	9 5/8	202	505	Cemented to surface
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	8 5/8			
Tephabock ADDRESS Rt.1, Box 101-A, Ripley, W	7	2596	2596	75 sxs
PERMIT ISSUED 3-31-89	^{'V} 5 1/2			
DRILLING COMMENCED 7-31-89	4 1/2	-	4875	200 sxs
DRILLING COMPLETED 3- 1-90	3			
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2			
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
GEOLOGICAL TARGET FORMATION Brown Shale/Be		Dept		feet
Depth of completed wellfeet			Tools_	
Water strata depth: Fresh feet;	~			
Coal seam depths:	_ Is coal	being mine	ed in the	area? No
OPEN FLOW DATA				
Producing formation Brown Shale	Pav	zone dept	تا_دەرە: ת	150 feet
Gas: Initial open flow Mcf/d	Oil: Ini	tial open	flow	Ph1 /3
Final open flow 23.0 Mcf/d				
Time of open flow between ini-				
Static rock pressure 980 psig(surface				
(If applicable due to multiple completion				10 044C 111
Second producing formation		zone dent	·h	feet :
	Oil: Tni	itial open	flow	Bh1 /a
Gas: Initial open flow Mcf/d				
Gas: Initial open flow Mcf/d Final open flow Mcf/d	Oil: Fir	nal open f	Low	Bh1 /a

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

- 1. Set drillable bridge plug at 4250'. Perforated 4½" 2828', squeezed 75 sxs neat cement. Top of cement behind 4½" 1930'.
- Perforated Brown Shale 3702'-4152' with 27 shots. Foam frac with 310 bbls water 720 sxs sand and 535 MScf N2.
 Perforated Berea 2519'-2523' with 5 shots. Water frac with 487 bbls and 450 sxs
- sand. Not commercial. Squeezed perforations with 50 sxs neat cement.

WELL LOG

	>menocia, construir de aginte e construir de la construir de l			ZOWEK CZĘSTKIE ZOWĘCZNIE WYWO KOWY COLONIA		
FORMATION	COLOR	HARD OR SO	FT TO	P FEET	BOTTOM FEET	
See	origion	ńal		Andrew Process (Process of Process of Proces		and salt water, coal, oil and gas White flucture Remine
. •						Recorder
			dominos de la composiçõe de la composiçõ			Of Janie
			f f			RECEIVE
						DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
. * '						
					Of the second se	

(Attach separate sheets as necessary)

Quinoco Petroleum, Inc	
Well Operator	
By: Blew Breken	
Date: 4-5-90	

8		
Delin Control	Note:	Regulation 2.02(i) provides as follows:
Contratorio	_	"The term 'log' or 'well log' shall mean a systematic
-	87Vo	detailed geological record of all formations, including
	80	inial, encountered in the drilling of a well."

FORM WW-2B

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION 40415 3 301

1)	Well Opera	ator:	Quinoco Pe	<u>etroleum, In</u>	ic.	/) 			
2)	Operator's	s Well N	umber:	George Cast	0 #923	3) Elev	ation: 897		
4)	Well type		•						
		(b). I	f Gas: P	roduction_ Deep_	X/ Undergro	ound Storage Shallow	<u>X</u> /		
5)	Proposed	Target F	ormation(s):Ber	ea/Brown Shal	e			
6)	Proposed	Total De	pth:	4152	- feet day	I we stand			
7)	Approxima	te fresh	water st	rata dept	Is will hat	None reported	<u>d</u>		
8)	Approxima	te salt	water dep	oths:	The state of the s	None reported			
9)	Approxima	te coal	seam dept	hs W	ORF-	None Reported			
10)	Does land	l contair	coal	ims tribut	ary to acti	None Reported ve mine? Yes	s/ No/		
11)			k: Rework	well by re-		rforating and			
12)		· .	CASINO	AND TUBI	NG PROGRAM				
TYPE	٦	SI	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT		
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)		
		9 5/8"	Grade		202	C 202	100 sacks to surface		
Cond	ductor	9 370					Vinix		
Fres	sh Water					39ND	1000		
Coa		7"			2596	2596	75 sacks		
Int	ermediate					4875	2860' by log		
Pro	duction	4 1/2"				4000	38C5R19-11.		
Tub	ing					FORM	Sprease Job		
Lin	ers				1.	10)	FCELVIA		
PAC	PACKERS: Kind								
ا۸		oths set					IVISION OF OIL & GAS		
M	V	. /	For Divis	on of Oil	and Gas Use	DEI	PARTMENT OF ENERG		
一	Pee(s)	paid: (j	Well !	Work Permi	t White Reg	clamation Fun	77		
G.	plat (6-MM &	WW.	-2B (151)	Bond	(Type)	Agent		

Page 1 of 8 Form WW2-A (09/87) File Copy



DIVISION OF OIL & GAS3) DEPARTMENT OF ENERGY

D	ate	e :	MARCH	/	3	_]9?	89	
0	pei	cator	's wel	l nu	mber			
	Ge	eorge	L. Casto	#92	23			
A	PΙ	Well	No:	47 -	03		1443	-FRAC
			State	e –	Count	У -	Permi	t

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

		0		
4)		wner(s) to be served:	5) (a) Coal Operator:	
	(a) Name	George L. Casto DECEASED	Name N/A	
	Address _	3110 Blain Blvd.	Address	
		Charleston, WV		
	(b) Name	Charles E. Wright	(b) Coal Owner(s) with	n Declaration
	Address _	527 Central Avenue	NameN/A	
		Charleston, WV 25302	Address	
	(c) Name			
	Address _		Name <u>N/A</u>	
			Address	
<i>C</i>)	V	- A m 1 1 1		
6)		Jerry A. Tephabock	(c) Coal Lessee with I	
		Route 1, Box 101-A	NameN/A	
	Tolophone	Ripley, WV 25271 (304)- <u>372-6805</u>	Address	
	rerebuone	(304)-372-6805		
		TO THE PERSON(S) NAMED AB	הארם הארם אוחייורים שמאיים	
		TO THE PERSON(S) NAMED AD	OVE TARE NOTICE THAT:	
	Included	is the lease or leases or	other continuing conti	ract or
contr	acts by w	hich I hold the right to	extract oil and das OP	Lace of
X	Included	is the information requir	ed by Chapter 228 Arts	icle 1
Secti	on 8(d) o	f the Code of West Virgin	is (see page 2)	icie i,
	I certify	that as required under C	hanter 228 of the West	Wirdinia Codo
T hav	e served	copies of this notice and	application a location	virdilia code
2000	nnanving d	ocuments pages 1 through	8 on the shows named	on prac, and
u c c 011	Y Dare	onal Service (Affidavit a	on the above named	parties, by:
		ified Mail (Postmarked po		
		ication (Notice of Public		
		reaction (Notice of Public	acion accadned)	
	I have re	ad and understand Chapter	22B and 38 CCD 11-18	and I agree
to th	e terms a	nd conditions of any perm	it issued under this a	and ragree
	I certifu	under penalty of law tha	t I have norconally ove	ppiredcron.
famil	iar with	the information submitted	on this application for	amried and am
attac	hments a	nd that based on my inqui	ry of those individuals	orm and arr
respo	nsible fo	r obtaining the informati	on I bolieve that the	information
is tr	ne. accur	ate, and complete.	on, I believe that the	Intormacion
	I am awar	e that there are signific	ant nonaltice for submi	itting folia
infor	mation. i	ncluding the possibility	of fine and imprisonmen	recing raise
		Well Onerster	OUINOCO ZEZROLEUM, INC	16.
		By:	OUTNOCO PETROLEOM, INC.	
		Its: <u>District Ma</u>	and 10 begans	
			uarrier Street, PO Box 1433	
			ston. West Virginia 25325	
			2-6193	
Subsc	ribed and	sworn before me this 38	D day of MARCH	, 19 <i>89</i>
M	1		_ auj or _////kc/	
$\forall X$	rlan	LTale Coleman)	_Notary Public
Му сс	mmission	expires DECEMBER	9 1997	THOUGHT PUDITE
<u></u> "				





Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,					
Charleston, W. Va.	DATE	Ma	y 23, 1978	3	
Surface Owner George L. Casto	Company	, DE	VON CORPOR	RATION	
Address 3110 Blain Blvd., Charleston			3. Charles	iton. W.	Va.
Mineral Owner George L. Casto, et u	X Farm	George L.	Casto	Acres	120 ac
Address 3110 Blain Blvd., Charleston	, WV 253 Location	(waters)	Spruce R	≀un	
Coal Owner Same as above					897
Address	District_	Ripley			
Coal Operator Not operated	Quadrang	_{ile} Cottag	eville		
Address THE DERMIT MUST BE POSTED AT THE WELL SIT	97°				
// provisions being in accordance with Chapter 2: o: the W. Va. Code, the location is hereby approve drilling . This permit shall expire	if INSPECTOR TO BE NOTI	FIED Ric	hard J. M	lorris	
operations have not commenced by	ADDRESS	Grantsv	ville, W.V	a.	
Deputy Director - Oil & Gas Division	PHONE 3	54-7259			
GENTLEMEN:					
The undersigned well operator is entitled to drill title thereto, (or as the case may be) under grant or et ux made to Commonwealth 19, inJackson County, Book	r lease dated Mo Gas and	recorded on t	19 69	hy G. I	L. Casto,
NEW WELL DRILL DEEP OIL AND GAS WELL ORIGINALLY I The enclosed plat was prepared by a registered er	ERREI	DRILL	•		
have been notified as of the above date.	.gcci or necinsed it	ina sarveyor a	nd an coal ow	mers and/o	r operators
The above named coal owners and/or operator are to make by Section 3 of the Code, must be received	hereby notified that by, or filed with the	any objection Department o	they wish to f Mines within	make, or a	re required days. *
Copies of this notice and the enclosed plat were m or coal owners at their above shown respective addr- same day with the mailing or delivery of this copy to	ess	day		before.	al operators or on the
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	Very truly 3 (Sign Name)	A. C. Y8	EVON CORPO	ORATION Geolog	ist
WEST VIRGINIA GEOLOGICAL AND	Address	P0	Box 1433	* · · · · · · · · · · · · · · · · · · ·	
ECONOMIC SURVEY P. O. BOX 879	of	Δ'	Street		
MORGANTOWN, WEST VIRGINIA 26505	Vell Operator		rleston,	* **	
AC-304 - 292-6331			t Virginia	25325	
	-	WC3	State		

*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.

BLANKET BOAD

JAC-1443

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

PROPOSED WORK ORDER TO DRILLING CONTRACTOR: (If				
	Known)	RESPONSIBLE AGENT		
NAME FWA Drilling C	0.	NAME Bill Endicott ADDRESS Box 1433, Charleston, W. Va.		
ADDRESS <u>Box 448, Elkvi</u> TELEPHONE <u>965-3379</u>				
ESTIMATED DEPTH OF COMPL	ETED WELL: 4925		CABLE TOOLS	
PROPOSED GEOLOGICAL FORM			CADLE TOOLS	
TYPE OF WELL: OIL_			E DYODOG Y	
•	NEC I C	WATER FL	OODOTHER	
TENTATIVE CASING PROGRAM	:			
	•			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN	CEMENT FIFE UP	
0 - 16		WELL	OR SACKS - CUBIC FT.	
3 - 10				
- 5/8	200	200	100 000 100	
- 5/8	200	200	100 sax=to surface	
	2625	2625	75 sax=625'	
1/2	2023	2023	/5 SdX-025	
1/2		4005	7.50	
		4925	150 sax=1800'	
			Perf. Top Perf. Bottom	
iners			Perf. Top	
			Perf. Bottom	
PPROXIMATE FRESH WATER I	The same of the sa	<u>u</u> , , , , , , , , , , , , , , , , , , ,		
S COAL BEING MINED IN THE	AREA? No	BY WHOM?		
O DRILL:		·		
	OF OG - 1, \$100.00 PERM	MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY	
SUBMIT FIVE (5) COPIES (OF PLAT.		MIT FEE, PERFORMANCE B	OND AND PERMANENT COP	
SUBMIT FIVE (5) COPIES (OF PLAT. O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO	.: F OG - 1, SHOWING ORIO D 1929, A PERMANENT (MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY	
SUBMIT FIVE (5) COPIES (OF PLAT. O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O	.: F OG - 1, SHOWING ORIO D 1929, A PERMANENT (MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORI	
SUBMIT FIVE (5) COPIES (OF PLAT. Defill deeper or redrill SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED	.: F OG - 1, SHOWING ORIO D 1929, A PERMANENT (MIT FEE, PERFORMANCE B	OND AND PERMANENT COPY	
SUBMIT FIVE (5) COPIES (OF PLAT. Define the performance of the perfo	J: F OG - 1, SHOWING ORIGO D 1929, A PERMANENT (D) IGINALLY DRILLED BEF	MIT FEE, PERFORMANCE B GINAL PERMIT NUMBER AN COPY OF THE PLAT AND	OND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORN	
SUBMIT FIVE (5) COPIES (OF PLAT. O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED OF FRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT A	J: F OG - 1, SHOWING ORIGINALLY DRILLED BEFORM IGINALLY DRILLED BEFORM IGINALLY DRILLED ON A	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD.	OND AND PERMANENT COPY OF PERFORMANCE BOND. OF THE ORIGINAL WELL RECORT COPIES OG - 1, PERFORMANCE	
SUBMIT FIVE (5) COPIES OF PLAT. O DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED OFRACTURE - STIMULATE: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT AND OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM	J: F OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANENT OF THE PROPERTY OF THE PRO	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 1926 BOND.	OND AND PERMANENT COPY	
SUBMIT FIVE (5) COPIES OF PLAT. Defill deeper or redrill submit five (5) copies of wells drilled prior to must also be submitted fracture - stimulate: Officiand/or gas well or bond, permanent plat a oil and/or gas well or ing original permit num required forms must be filed	J: F OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANENT OF THE PROPERTY OF THE PRO	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 1926 BOND.	OND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECOR COPIES OG - 1, PERFORMANCE 9, FIVE COPIES OG - 1, SHOW	
SUBMIT FIVE (5) COPIES OF PLAT. Description of Plat. Description of Plat. SUBMIT FIVE (5) COPIES OF WELLS DRILLED PRIOR TO MUST ALSO BE SUBMITTED. Description of Practure - Stimulate: OIL AND/OR GAS WELL OR BOND, PERMANENT PLAT AT OIL AND/OR GAS WELL OR ING ORIGINAL PERMIT NUM. Required forms must be filed.	J: F OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANENT OF THE PROPERTY OF THE PRO	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 1926 BOND.	OND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECOR COPIES OG - 1, PERFORMANCE 9, FIVE COPIES OG - 1, SHOW	
SUBMIT FIVE (5) COPIES OF PLAT. Defill deeper or redrill submit five (5) copies of wells drilled prior to must also be submitted fracture - stimulate: Officiand/or gas well or bond, permanent plat a oil and/or gas well or ing original permit num required forms must be filed	J: F OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANENT OF THE PROPERTY OF THE PRO	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 1926 BOND.	OND AND PERMANENT COPY ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORT COPIES OG - 1, PERFORMANCE 9, FIVE COPIES OG - 1, SHOW-	
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SUBMIT FIVE (5) COPIES OF PLAT. Defill deeper or redrill submit five (5) copies of wells drilled prior to must also be submitted of the following waiver must be preof. Submit five (5) copies of wells of the following waiver must be filed four (24) hours in advance.	F OG - 1, SHOWING ORIGO 1929, A PERMANENT OF THE PROPERTY OF T	GINAL PERMIT NUMBER AND COPY OF THE PLAT AND COPY OF THE PLAT AND CORE JUNE 5, 1929, FIVE (5) ECORD. AND/OR AFTER JUNE 5, 192 E BOND. completion for bond release.	OND AND PERMANENT COPY OF PERFORMANCE BOND. OF THE ORIGINAL WELL RECORT COPIES OG - 1, PERFORMANCE OF THE COPIES OG - 1, SHOW Inspector to be notified twenty	
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