

1 Rep Well 6-6 Providence (3)



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

## Oil and Gas Division

#### WELL

XXX Rotary\_ Oil. RECORD Gas\_XXX Cable\_ Recycling\_ Comb. Water Flood\_\_\_ Storage\_

(Kind)

Quadrangle Cottageville Permit No. MAS-151 Disposal\_\_\_ DEVON CORPORATION Left Company\_ Casing and Used in Box 1433, Charleston, Address\_ Tubing Drilling Overt Pullins Pullins Acres\_ Left Fk. of Cow Run Size

Cement fill up in Well Cu. ft. (Sks.) Location (waters) \_ Elev. 935 909 Well No.\_\_ 20-16 Cologne Mason Cond. \_\_ County\_\_\_ District\_\_\_ 13-10" The surface of tract is owned in fee by\_ 244 244 100 sax=to surf. 9 5/8 Overt Pullins, Box 91, Address Evans, West Virginia 8 5/8 Same as above 2540 2540 75 sax=625 feet Mineral rights are owned by\_\_\_\_ 5 1/2 \_\_\_\_\_ Address\_ December 5, 1978 4719 200 sax=2400' 4 1/2 Drilling Commenced\_\_\_ Liners Used \_\_\_\_bbls. 640 RP. Well open \_\_\_\_2 \_\_\_hrs. before test\_\_

Attach copy of cementing record. Well treatment details:

Perforated 45" casing 4275-4531 with 21 shots.

Fractured Marcellus with 1003 BBLS water & 57,500# sand Set drillable bridge plug in 4½" csg. at 4050'. Perforated 4½" casing 3895-4010 with 24 shots. Fractured Br. Shale with 315 BBLS water & 60,000# sand

Coal was encountered at None Reported Inches

Salt Water. \_Feet \_ Fresh water\_\_ 3895-4010 & 427 Producing Sand Brown Shale & Marcellus Depth \_\_

Formation Cold	or Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Surface Shale Sand	TORS PROBABLY FROM K.B. ABOUT 943'	0 10 190 265 525 550 648 667 845 915 1022 1092 1170 1248 1336 1372 1388 1420 1468 1507 1533 1539 1566	10 190 265 525 550 648 667 845 915 1022 1170 1248 1336 1372 1388 1420 1468 1507 1533 1539 1566 1574	RECEIVED  APR 5 - 1982  OIL AND GAS DIVISION WY DEPARTMENT OF MINES

(over)

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
	Onondaga Oriskany Helderbe	ind inale ind is Shale is L. S. v Sand erg L. S.	1574 1664 1689 1774 1836 1848 1974 1988 2117 2448 2463 2463 2480 3614 4042 4428 4561 4642 4664	1664 1689 1774 1836 1848 1974 1988 2117 2448 2463 2463 2480 3614 4042 4428 4561 4642 4664 4788		
	Log 1	Total Depth		4788'		
				The public of the control of the con		

Date January 8 1079
DEVON CORPORATION
APPROVED A. C. ouse Symptotics Geologist (Inde)

1981 A.C. 298



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

## SEP - 4 1979 47-053-0/5 ( OIL & GAS DIVISION DEPT. OF MINES

### Oil and Gas Division

## WELL RECORD 32

Quadra	ngle.	<u>Cottage</u> ville	9
Permit	No.	MAS-151	

XXX	
Rotary	Oil
Cable	Gas_XXX
Recycling	Comb
Water Flood	Storage
Disposal	(Kind)

Quadrangle Cottageville				Recycling_	Comb
Quadrangle					d_ Storage
Permit No. MAS-157				Disposal	(Kind)
E CHERRY I ACL				* 14 14 14 14 14 14 14 14 14 14 14 14 14	(Kind)
DEVON CORPORATION	торуја пред на на пред станова на пред станова В пред станова на пред станова				Constant fill are
E 7 27 7 4 6 7 7 7	CONTRACTOR OF THE PARTY OF THE	Casing and	Used in	Left	Cement fill up
Address Box 1433, Charleston, WV	A.G. 3.C	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Address Box 1433, Charles Con, WY Farm Overt Pullins Acre Location (waters) Left Fk. of Cow Ri	s 40 ac		egistikasionen eta piiditta esittyimin ja kitatoonista eta tiitatoonista eta taloita eta taloita eta taloita e		
Location (waters) Left FK. Of COW KI	UII .	Size			
Wall No 909 Elev	200	20-16			
District Cologne County Mass	<u>on</u>	Cond.			
The surface of tract is owned in fee by	Sea discussion and the extension of the same	13-10"	0 A A	244	100 sax=to surf.
Overt Pullins, Box 91.	and the second s	9 5/8	244		100 300 00 00
Finns Wast Viscinia		8 5/8			
Address Evans, west viriginia  Mineral rights are owned by Same as ab	ove	7	2540	2540	75 sax=625 feet
Mineral rights are owned by		5 1/2			
Address December 5, 197 Drilling Commenced December 33 19	8	4 1/2	on the desired services of the	4719	200 sax=2400'
Drilling Commenced	78	3			
Drilling Completed December 13, 19	2 3 1 .	3			
Initial open flow 16 MCFD caxxxx  Final production 134 MCFD caxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	DDIS.	Liners Used	***		
Final production 134 NUT PAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	bbls.	Chiefa Caca			
Well open hrs. before test	<u>64U</u> RP.		-	•	
Well treatment details:		Attach copy of c		ecord.	4MCF
Perforated 4½" casing 4275-4	1531 with 2	1 shots.	ramation designers, produce from the most to weak out considerations about the	1 -	
				and with the contraction of the	
Fractured Marcellus with 100	)3 BBLS wat	er & 5/,500#	sano	n personant in generalist and de santat to a recitat in the santat to a chimalist and	
Cat daillable bridge fille it	1 4%" csq.	at 4050'.	nga gangangan and hallawan property (mga balawan sama	ge appropriate de la propriate de constitución de constitución de constitución de constitución de constitución	
5 - 5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	anin with z	4 SNOTS.	watern 18h circulation on a single circulation is the control		
Fractured Br. Shale With 31:	D DDFD Marc	: G 00,000 0	and	g gygggygggggggggggggggggggggggggggggg	ing with a short allowers the contract and a state of the
Coal was encountered at None Reported	Fap	1		ches	
					stronger FOCL configurations accommission accommission and the configuration accommission accommission and the configuration accommission accommission and the configuration accommission a
Fresh water Fee Producing Sand Brown Shale & Marce	11115	Denti	7 (0000	<u>-4010/8/42</u>	75-4531
Producing Sand Bruwn 311216 3 11222	3 3 Novi And	and the second s	\ Dev	/ 5h / 📐	MRCL/
			1		
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas	s or Water	* Remarks
		10			
Surface	0	190			
Shale	10	265			
Sand	190 265	525			
Shale	525	550			
Sand	550	648			
Shale	648	667			
Sand	667	845			
Shale	845	915			
Sand	915	1022			
Shale		1092			
Sand	1022	1170	C/12.7.00		,
Shale	1170	1248			
Sand	1248	1336			
Shale	1336	1372			
Sand	1330	1388			

(over)

1372

1388

1420

1468

1507

1533

1539

1566

1388

1420

1468

1507

1533

1539

1566 1574

Shale

Sand

Shale

Sand

Shale

Sand

Shale

Sand

<sup>\*</sup> Indicates Electric Log tops in the remarks section.

## 47-0530151

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Formation Color Hard or Soft	Top Feet 3-2	Bottom Feet	Oil, Gas or Water * Remarks
Shale Sand Shale Maxon Sand Shale Big Lime Shale Injun Sand Shale Coffee Shale	1574 1664 1689 1774 1836 1848 1974 1988 2117 2448	1664 1689 1774 1836 1848 1974 1988 2117 2448 2463	
Berea Sand Shale Brown Shale Shale Marcellus Shale Onondaga L. S. Oriskany Sand Helderberg L. S. Log Total Depth	2463 2480 3614 4042 4428 4561 4642 4664	2480 3614 4042 4428 4561 4642 4664 4788 4788'	
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	District Control of the Control of t		

1988 14.40





#### Oil and Gas Division

#### OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	DATE May 8		
urface Owner Overt Pullins	CompanyDEVON	N CORPORATION	
ddress	Address PO Bo	x 1433, Charl	eston, WV
ineral Owner Overt Pullins	Farm Overt F	Pullins	Acres 46 ac
ddress Rt. 1, Box 91, Evans, W. Va.	Location (waters)	Left Fk. of C	ow Run
oal Owner Same as above	Well No. 909		Elevation 935
ddress	District Cologr	ne	County Mason
oal Operator Not operated	Quadrangle Cottac		
ddress			
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	INSPECTOR	Kenneth I	kutohen
for <u>drilling</u> . This permit shall expire if	TO BE NOTIFIED	rennern 1	or relier.
operations have not commenced by 9-24-78.	ADDRESS	Barbours	ville, W. Va.
notes to less	Name and the second		
Deputy Director - Oil & Gas Division	PHONE <u>736-4885</u>	-	
ENTLEMEN:			
The undersigned well operator is entitled to drill upon			
le thereto, (or as the case may be) under grant or lease  Devon & Eason  made to	e dated <u>May 3</u> and recorded o	19 <u>77</u> by	Overt Dulling
le thereto, (or as the case may be) under grant or lease  ——————————————————————————————————	e dated <u>May 3</u> and recorded o Page110	19 <u>77</u> by	, Overt Pullins day of
Devon & Eason   Devon & Easo	e dated May 3 and recorded o Page 110 REDRILL	n theFRACTURI	Overt Pullins day of
le thereto, (or as the case may be) under grant or lease  ——————————————————————————————————	e dated May 3 and recorded o Page 110 REDRILL	n theFRACTURI	, Overt Pullins day of
Devon & Eason  made to  made to  County, Book 42  XXX NEW WELL DRILL DEEPER  OIL AND GAS WELL ORIGINALLY DRILL  The enclosed plat was prepared by a registered engineer we been notified as of the above data.	e dated May 3  and recorded o  Page 110  REDRILL  LED BEFORE JUNE 5, 19  er or licensed land surveyo	n theFRACTURE 969.	Overt Pulling  day of  OR STIMULATE  ers and/or operators
le thereto, (or as the case may be) under grant or lease	and recorded o and recorded o Page 110 REDRILL LED BEFORE JUNE 5, 19 or or licensed land surveyor by notified that any object	n theFRACTURE 969. or and all coal own	overt Pullins day of  OR STIMULATE ers and/or operators  ake, or are required
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Devon & Eason  made to  Devon & Eason  The enclosed plat was prepared by a registered engineer we been notified as of the above date.  The above named coal owners and/or operator are herefunke by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed coal owners at their above shown respective address me day with the mailing or delivery of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this copy to the interest of the code of this code of this code of the	and recorded o and recorded o Page 110 REDRILL LED BEFORE JUNE 5, 19 or or licensed land surveyor by notified that any object or filed with the Department by registered mail, or delived that any object	1977 by n theFRACTURI 969. or and all coal own tion they wish to m nt of Mines within vered to the above m	overt Pullins day of  OR STIMULATE  ers and/or operators  make, or are required ten (10) days. *  named coal operators before, or on the ginia.
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\*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.

MAS-151 \_PERMIT NUMBER

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

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If NAME FWA Drilling (	Known)	RESPONSIBLE AGENT:  NAMEBill_Endicott		
ADDRESS <u>Box 448, Flkv</u> TELEPHONE <u>965-3379</u>		ADDRESS Box 1433, Charleston, WV TELEPHONE 342-3171		
ESTIMATED DEPTH OF COMPI	LETED WELL: 4775	•	CABLE TOOLS	
PROPOSED GEOLOGICAL FOR				
TYPE OF WELL: OIL_	GAS XXX	COMB STORAGE	DISPOSAL.	
			OODOTHER	
TENTATIVE CASING PROGRAM	<b>1</b> :			
CASING AND TUBING	USED FOR	E PAPET (A)		
SIZE	DRILLING	LEFT IN WELL	OR SACKS - CUBIC FT.	
20 - 16				
3 - 10				
) - 5/8	250	250	100 sax=to surface	
7				
5 ½	2550	2550	75 sax=625'	
1 1/2				
		4775	150 sax=1800'	
		4.2 4.9 4.444	Perf. Top  Perf. Bottom	
iners			Perf. Top	
		and the second		
APPROXIMATE FRESH WATER		Little in the programme of appeals.	The set ground over the settler	
S COAL BEING MINED IN THE	E AREA? No	BY WHOM?		
	OF OG - 1, \$100.00 PERM		OND AND PERMANENT COPY	
O DRILL DEEPER OR REDRIL: SUBMIT FIVE (5) COPIES O WELLS DRILLED PRIOR T MUST ALSO BE SUBMITTE	OF OG - 1, SHOWING ORIG O 1929, A PERMANENT C	NAL PERMIT NUMBER ANI	O PERFORMANCE BOND. ON HE ORIGINAL WELL RECORD	
O FRACTURE - STIMULATE:	<b>ט.</b> 		and the second s	
OIL AND/OR GAS WELL OR	IGINALLY DRILLED BEFO	RE JUNE 5, 1929, FIVE (5) C	OPIES OG - 1, PERFORMANCE	
OIL AND/OR GAS WELL OR	AND ORIGINAL WELL REC IGINALLY DRILLED ON AI	ORD. ND/OR AFTER JUNE 5, 1000	, FIVE COPIES OG - 1, SHOW-	
1401	DEN, AND PERFURMANCE	BOND.		
Required forms must be filed four (24) hours in advance.	within ninety (90) days of c	completion for bond release. I	Inspector to be notified twenty-	
		The second secon	** ** The state of	
The following project mind	annolosod by the			
			sued within ten days of receipt	
AIVER: I the undersigned, Agen	t for	0.30		
this lease have examined	d and place on our mine ma	ps this proposed well location	n.	
providing operator has co	Coal Company lomplied with all rules and regu	nave no objections to said wel lations in Articles 4, 5, and 7,	l being drilled at this location, Chapter 22 of the West Virginia	
Code.				
			M <sub>c</sub> on the second seco	
		For	Coal Company	
			Official Tirle	