



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 35

Quadrangle <u>Cottage</u>ville Permit No. MAS-157

OIL & GAS DIVISION DEPT. OF MINES 47-053-0157

Rotary_XXX	Oil
Cable	Gas_XXX
Recycling	Comb
Water Flood	Storage
Disposal	TV:mall

face

Company DEVON CORPORATION Address PO Box 1433, Charleston, WV 25325 Farm Lottie Barnett Hrs Acres 110 ac	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Location (waters) Little Horse Cave Run Well No. 913 Elev. 820	Size 20-16			
District Union County Mason	Cond. 13-10"			· · · · · · · · · · · · · · · · · · ·
The surface of tract is owned in fee by Grant Barnett, Pt. Pleasant,	9 5/8	202	202	100 sax=to surf
Address W. Va.	8 5/8			
Mineral rights are owned by J. H. Barnett, et al Address Box 88, Evans, W. Va.	7 5 1/2	2581	_2581	75 sax=625'
Drilling Commenced October 18, 1978	4 1/2	namen organização de la composição de la c	4685	200 sax=2400'
Drilling Completed November 12, 1978	3			
Initial open flow I MCFD dax set bbls.	2			
Final production 165 M/Dcu. ft. per daybbls.	Liners Used			
Well open hrs. before test _700_ RP.				
Well treatment details: Perforated 4½" casing 4478' to 4634' wit	Attach copy of coh 23 shots.	ementing reco	rd. 16.	5MCF
Fractured Marcellus with 344 BBLS water,	60,000# sand			

oal was encountered at None report	<u>ed</u> Feet.	Sait W	Inches	Feet\
oducing Sand Br. Shale & Marcelle		Depth	3918-4102 8 44	78-4634
	1		(Sev Sh)	rch J
Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Surface	0	13		the control to the control of the co
Shale	13	29		
Sand	29	49		
Shale	49	89		
Sand	89	108	•	
Shale	108	260		
Sand	260	287		
Shale	287	421		
Sand :	421	450		
Shale	450	463		
Sand	463	480		
Shale	480	610		
Sand Shale	610 640	640 710		
Sand	710	735		
Red Rock	735	860		
Sand	860	904		
Shale	904	934		
Sand	934	982		
Red Rock	982	1050		•
Shale	1050	1140		
Sand	1140	1238	:	
Shale	1238	1306	Marketine and Marketine and Artist Languages	

(over)

Perforated 42" casing 3918'-4102' with 22 shots

Fractured Br. Shale with 284 BBLS water, 60,000# sand.

^{*} Indicates Electric Log tops in the remarks section.

47-053-0157

	T	Bottom Feet	Oil. Gas or Water * Remarks
Formation Color Hard or Soft	Top Feet 3.5	DOLLOIN FEEL	1 (7). Cas of water regulary
Sand Shale Sand	1306 1402 1440	1402 1440 1494	
Shale Sand	1494 1655	1655 1748	gritario della compara
Shale	1748	1874	
Big Lime Shale Injun Sand Shale Coffee Shale Berea Sand Shale Brown Shale Shale Marcellus Shale	1874 1964 2030 2156 2462 2484 2496 3670 4136 4542	1964 2030 2156 2462 2484 2496 3670 4136 4542 4700	
Log Total Depth	Total control of the	4700'	
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J-1 4133	et manufacture de la constante		
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		and the secretary and the second and	

APPROVED

A. C. (ouse

By District Geologist

(Tule)



DEPARTMENT OF MINES



OLEGAS DIVISION

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

O THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE October 4, 1978
	Company DEVON CORPORATION
urface Owner Grant Barnett Pt. Pleasant, W. Va.	Address Box 1433, Charleston, W. Va.
J. H. Barnett & Belle Freise	170 20
Amerai Owner	College Days
Address Box 88, Evans, W. Va.	920
Coal Owner Same as above 25241	Macan
Address	District Uniton
Address	. Quadrangle cottage
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	en en general de la companya de la c La companya de la co
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved	
for <u>drilling</u> . This permit shall expire if	
operations have not commenced by 2-5-79	
A Cold Cold Cold Cold Cold Cold Cold Cold	Kenneth Butcher
Deputy Director - Oil & Gas Division INSPECTOR	R TO BE NOTIFIED
PH * 736	4885 ADDRESS Barboursville, W. Va.
GENTLEMEN:	e above named farm or tract of land for oil and gas, having fee
The undersigned wen operator is choused to start or losse.	dated October 9 19 68 by Lottie
	and recorded on the day of
Barnett made to Commonwealth Gas 19 in Mason County, Book 31	
19 in MdSUII County, Book	EDACTIBE OR STIMILATE
XXX NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLER	D BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer	or licensed land surveyor and all coal owners and/or operators
have been notified as of the above date. The above named coal owners and/or operator are hereby to make by Section 3 of the Code, must be received by, or	notified that any objection they wish to make, or are requirefiled with the Department of Mines within ten (10) days. *
to make by Section 3 of the Code, must be received by,	and mail or delivered to the above named coal operator
or coal owners at their above shown respective address	day before, or on the epartment of Mines at Charleston, West Virginia.
or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the De	DEVON CORPORATION
07 ATT	Very truly yours, DEVON CORPORATION
PLEASE SUBMIT COPIES OF ALL	(Sign Name) . C. Jaure
GEOPHYSICAL LOGS DIRECTLY TO:	A. C. Youse, Dist Geologist
West Virginia Geological and Economic Survey	Box 1433
P. O. Box 879 Morgantewn, W. Va. 26505 of Well On	
Well Op	01 3
	West_Virginia State 25325

*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 thing 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 BOND

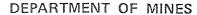
MAS-157 PERMIT NUMBER

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

PROPOSED WORK OR	DER TO XXX DRILL	DEEPENF	RACTURE-STIMULATE		
PROPOSED WORK OF	OR: (If Known)	RESPONSIBLE AGENT			
DRILLING CONTRACTOR: (If Known) NAME FWA Drilling Co., Inc. ADDRESS Box 448, Elkview, W. Va.		NAME Bill Endi	NAME Bill Endicott		
		ADDRESS Box 14	33, Charleston, W. Va.		
ADDRESS DOX 110:	3379		171		
TELEPHONE	F COMPLETED WELL: 2650		CABLE TOOLS		
ESTIMATED DEPTH O	CAL FORMATION: Berea San	d			
PROPOSED GEOLOGIC	OIL GAS XXX	COMP STORAG	E DISPOSAL		
TYPE OF WELL:	OILGAS	TING WATER FL	OODOTHER		
TENTATIVE CASING		LING WITER 12			
CASING AND TUBI	NG USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
SIZE	2 X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z				
20 - 16 13 - 10	The state of the s				
9 - 5/8	200	200	100 sax = to surface		
8 - 5/8					
7	2650	2650	75 sax=625'		
5 1/2	1.000				
4 1/2			D. C. T.		
3			Perf. Top Perf. Bottom		
2			Perf. Top		
Liners			Perf. Bottom		
TO DRILL: SUBMIT FIVE (OF PLAT. TO DRILL DEEPER (SUBMIT FIVE (WELLS DRILLE MUST ALSO BE TO FRACTURE - STI OIL AND/OR G. BOND, PERMAN OIL AND/OR G. ING ORIGINAL	5) COPIES OF OG - 1, SHOWING OF D PRIOR TO 1929, A PERMANENT SUBMITTED. MULATE: AS WELL ORIGINALLY DRILLED BY NENT PLAT AND ORIGINAL WELL AS WELL ORIGINALLY DRILLED OF PERMIT NUMBER, AND PERFORMAT must be filed within ninety (90) days	RMIT FEE, PERFORMANCE RIGINAL PERMIT NUMBER T COPY OF THE PLAT AN EFORE JUNE 5, 1929, FIVE (RECORD. N AND/OR AFTER JUNE 5, NCE BOND.	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD 5) COPIES OG - 1, PERFORMANCE 1929, FIVE COPIES OG - 1, SHOW-		
thereof.	waiver must be completed by the coa				
this lease	ersigned, Agent forhave examined and place on our min	ne maps this proposed well I	ocation.		
We theproviding Code.	operator has complied with all rules an	oany have no objections to sa d regulations in Articles 4, 5,	id well being drilled at this location, and 7, Chapter 22 of the West Virginia		
			Par Cool Company		
	•		For Coal Company		
	Applied Williams		Official Title		



STATE OF WEST VIRGINIA





Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

•				
TO THE DEPARTMENT OF MINES,				
Charleston, W. Va.	DATE	November 7, 197	<u> </u>	
Surface Owner Grant Barnett	Company	Company Devon Corporation		
Address Point Pleasant, W. Va.	Address_	Address Box 1433, Charleston, WV		
Mineral Owner J.H. Barnett & Belle F	riese Farm	Lottie Barnett H	drs. Acres 110 ac.	
AddressBOX 88, Evans, WV	Location	(waters) Little Hor	rse Cane Run	
Coal Owner Same as above	Well No.	913	Elevation 820	
Address	District_	Union	County_MASON	
Coal Operator Not operated	Quadrang	le Cottageville	<u> 7½</u>	
Address			•	
THIS PERMIT MUST BE POSTED AT THE WE				
All provisions being in accordance with Chap of the W. Va. Code, the location is hereby ap				
for <u>deepening</u> . This permit shall e	xpire if			
operations baxe per commenced by 3-9-	79			
Dobot & Mills				
Deputy Director - Oil & Gas Division	INSPECTOR TO BE NOTIF		Control of the Contro	
GENTLEMEN:	PH:ADD	RESS <u>Barbours</u>	ville, W. Va.	
The undersigned well operator is entitled t	o drill upon the above name	d farm or tract of land	for oil and gas, having fee	
title thereto, (or as the case may be) under				
Barnett made to Commonweal				
19, in <u>Mason</u> County, Bo	ook 31 Page 4	93	•	
NEW WELL XXX DRILL	DEEPER REI	RILL FRAC	CTURE OR STIMULATE	
OIL AND GAS WELL ORIGINA				
The enclosed plat was prepared by a regis have been notified as of the above date.	tered engineer or licensed la	nd surveyor and all coa	al owners and/or operators	
The above named coal owners and/or operato make by Section 3 of the Code, must be re-				
Copies of this notice and the enclosed plat or coal owners at their above shown respecti	ve address	day	before, or on the	
same day with the mailing or delivery of this	copy to the Department of I		st Virginia. RPORATION	
	Very truly y	ours,	d old ion	
P'EASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)	Vouce Well Correla	Marse Coologist	
	A.C	. Youse Well Operator	or Dist. Geologist	
West Virginia Geological and Economic S P. O. Box 879	Address –	Box 1433 Street		
Morgantown, W. Va. 26505	of Well On water	Charleston	n	
	Well Operator _	City or Town		
		West Virg	inia 25325	
	-	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 BÜNÜ

MAS-157 -DD

PERMIT NUMBER



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

PROPOSED WORK ORDER TODRILL XXX		CDEEPEN	DEEPEN FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (RESPONSIBLE AGE			
NAMEADDRESSTELEPHONE		NAME Bill	NAME Bill Endicott		
		ADDRESS Box 1433, Charleston, WV			
ESTIMATED DEPTH OF COM					
PROPOSED GEOLOGICAL FO			CABLE TOOLS		
TYPE OF WELL: OII			AGE DISPOSAL		
	RECYCI	LING WATER	FLOODOTHER		
TENTATIVE CASING PROGR	AM: Prese	ent depth is 2650'	en e		
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.		
20 - 16			OK SACKS * COBIC F1.		
13 - 10					
9 - 5/8	200	200	100 sax- to surface		
8 - 5/8	,		100 307 00 3017000		
7	2600	2600	75 sax= 625'		
5 ½		2000	73 347 023		
4 ½					
3					
2			Perf. Top Perf. Bottom		
Liners		81 312 X 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perf. Top		
		The second of th	Perf. Bottom		
		J			
WELLS DRILLED PRIOR MUST ALSO BE SUBMIT OFRACTURE - STIMULATE: OIL AND/OR GAS WELL BOND, PERMANENT PLA OIL AND/OR GAS WELL ING ORIGINAL PERMIT N Required forms must be fil	S OF OG - 1, SHOWING ORIGINALLY DRILLED BEFORM ORIGINALLY DRILLED ON A UMBER, AND PERFORMANCE OF The State of	ORE JUNE 5, 1929, FIVE (CORD. AND/OR AFTER JUNE 5, 12 BOND.	AND PERFORMANCE BOND. ON D THE ORIGINAL WELL RECORD 5) COPIES OG - 1, PERFORMANCE 1929, FIVE COPIES OG - 1, SHOW- se. Inspector to be notified twenty-		
four (24) hours in advance	•				
The following waiver must	be completed by the coal op		pe issued within ten days of receipt		
iereoi.	•				
	gent for		ner or Operator of the coal under cation.		
			well being drilled at this location,		
providing operator has	s complied with all rules and reg	gulations in Articles 4, 5, an	nd 7, Chapter 22 of the West Virginia		
			10 to		
			For Coal Company		

Official Title