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E FELL COLLEGE COLLEGE CONTROL	ledge and belie	ed, hereby certify that this f and shows all the inform	ation required by a	saragraph 6 of the rules
New Location Z	and regulation	s of the oil and gas secti	on of the mining l	aws of West Virginia.
Drill Deeper	Mar	Signed:	HALEN S	The second secon
Aborración de la constant de la cons				
Company PACE PIPE		Annual Constitution of the	e of West V Epartment of m	
Address MANGR B, O			and Gas Din Charlestor	
Farm w.l. Slusser			Control of the Professional Control of Contr	
TractAcres <u>42.2</u>		A last from from	LOCATIO	ON MAP
Well (Farm) No. 2014		roptaan-aagunoonggarattagag		
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STATE OF WEST VIRGINIA DEPARTMENT OF MINES

DEGELVED)

Oil and Gas Division

OLOGAS DIVISION NET OF MINES

WELL RECORD

Quadrangle_	Big	Isaac	71/2

Permit No. Dodd 2307 (47-017)

KotaryX	Oil
Table	Cas_ V
Recycling	Comb.
Vater Flood	Storage
Disposal	(1/:)

	Disposal (Kind)			
Company Pace Pipe Line Company Address Drawer B, Delmont, Pa. 15626 Farm W. L. Slussar Acres 83 +	Casing and Tubing	Used in Drilling	Leit m Well	Coment fill up Cu. ft. (Sks.)
Location (waters) Laurel Run of Big Isaac Well No. 1	Size 20-16			
The surface of tract is owned in fee by Caldwell J. Hutson	Cond. 13-10" 9 5/8			
Address Box 14, Myock, N. C. 27958 Mineral rights are owned by W. L. Slusser Heirs	8 5/8 7		799	165 sk w/3% cal. 50 sk neet w/cal.
Address Salem, W. Va. Drilling Commenced 11/18/78 Drilling Completed 11/27/78	5 1/2 4 1/2		5427	338 sk cement
Initial open flow cu. ft. bbls. Final production 750 cu. ft. per day x bbls.	2 Liners Used			
Well open 48 hrs. before test 1750 RP.				

Well treatment details: Attach copy of cementing record.

#1 Water frac 517 bb1 45000# J-266 250#, F-78 15 gal, W-22 10 gal, L-53 20 g.l.
#2 Water frac 520 bb1 45000# J-266 250#, Acid 500 gal, F-78 10 gal, W-22 10 gal, L-53 40 gal.
#3 Water frac 502 bb1 45000# J-266 200#, Acid 500 gal, W-22 14 gal, L-53 20 gal, F-78 15 gal.
Baffle 5126 perf 5050 to 5060 16 perf. Baffle 4785 perf 4692 to 4710 16 perf.
Perf 5378 to 5384 14 perf.

Coal was encountered at 65 Feet 24 Inches & 400° --6°
Fresh water 65 Feet ½ Salt Water Feet

Producing Sand

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water * Remarks
Fill Sand Sandy shale Coal Sand Sandy shale & Rodrodk Sand Sandy shale Coal Sandy shale Sand & shale Sand & shale Sand Sandy shale Little Lime Sandy shale Big Lime Sand Sandy shale	0 12 45 65 67 130 165 200 406 745 1460 1495 -1740 1755 -1775 1850 1 25 4385 -4970 4990 5040 5065	4990 5040 5065	Increase in amount of water Chk gas 10 jts dn 4/10-1" H 2/0 TD gas 10 jts dn 10/10 of 2" H/2

(over)





OIL & GAS DIVISION F. E.F.T. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,		
Charleston, W. Va.	DATE	10/25/78
Surface Owner Galdwell Ja Butson	Company	Pace Pipe Line Company
Address box 14, Koyock, NG 27958	Address	Drawer B. Delmont, Pa. 13626
Mineral Owner Student being		W. L. Slusser Acres 58 83.5
	Location (v	The state of the s
Coal Owner	Well No	Elevation 1017
Address Address		Greenbrier County Doddridg
Coal Operator Notice		Big Iseac 74*
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 for <u>drilling</u> . This permit shall expire if	INSPECTOR	IED Paul Garrett
	TO BE MOTTE	Taur Garrer
operations have not commenced by 3-1-79	ADDRESS	Clarksburg, W. Va.
Deputy Director - Oil & Gas Division	PHONE 62	2-3871
GENTLEMEN:		
The undersigned well operator is entitled to drill upon title thereto, (or as the case may be) under grant or leading to the case may be under grant or lead	the shows named	forms on the state of the state
made to	and req	orded on the day of
NEW WELLDRILL DEEPER		
OIL AND GAS WELL ORIGINALLY DRIE	LED BEFORE JUI	NE 5, 1969.
The enclosed plat was prepared by a registered engine have been notified as of the above date. The above named coal owners and/or operator are her to make by Section 3 of the Code, must be received by,	eby notified that an	v objection they wish to make or are required
Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address	- Line -	day before or on the
same day with the mailing or delivery of this copy to the	Department of Mi	nes at Charleston, West Virginia.
PLEASE SUBMIT COPIES OF ALL	Very truly you	- m
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)	H. G. Sony du - preun Well Operator
WEST VIRGINIA GEOLOGICAL AND		224 / 12 3
	idress	Street
P. O. BOX 879	of	3420AT , 13 , 15 626
MORGANTOWN, WEST VIRGINIA 26505 Well C	Operator	
AC-304 - 292-6331		City or Town
	. · · · · · · · · · · · · · · · · · · ·	
		State

*SICTION 3.... It no objections are filed or found by the Department of mines, within said period of ten days from the receipt of motice 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.

BLANCET BOND

DODD-2307 PERMIT NUMBER

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

PROPOSED WORK ORDER TO	XDRILL	DÉEPEN F	RACTURE-STIMULATE	
DRILLING CONTRACTOR: (If Known)				
NAME UNION DRILLING		NAME JAMES . 3		
ADDRESS Maskington, Fa		ADDRESS Nox 126, Mannington, WV		
TELEPHONE	E		5-1432	
ESTIMATED DEPTH OF COMPI	ETED WELL: 5500	ROTARY		
PROPOSED GEOLOGICAL FOR			CABLE TOOLS	
TYPE OF WELL: OIL_		IMR STOPACE	Nuncour	
		G WATER FLO		
	TEDO I CELIF	WAIRR PLC	OTHER	
TENTATIVE CASING PROGRAM	1:			
CASING AND TUBING SIZE	USED FOR	LUITIN	CEMENT FILL UP	
	DRILLING	WELL	OR SACKS - CUBIC 11	
20 - 16		Committee and the committee of the commi		
9 - 5/8	Managements (and it is the contract of the con			
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			Perf. Bottom	
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APPROXIMATE FRESH WATER	DEPTHSFEET	SALT WATER _	800	
APPROXIMATE COAL DEPTHS_	20 M/M 20 B	O11111 W711111	P.E.I	
IS COAL BEING MINED IN THE		BY WHOM?		
ro drill:				
OF PLAT.	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE BO	ND AND PERMANENT COPY	
TO DRILL DEEPER OR REDRILL				
SUBMIT FIVE (5) COPIES O	F OG - 1, SHOWING ORIGIN	AL PERMIT NUMBER ANI	PERFORMANCE BOND. ON	
" TIOIL I	O 1929, A PERMANENT COP	Y OF THE PLAT AND T	HE ORIGINAL WELL RECORD	
MUST ALSO BE SUBMITTE).		:	
FRACTURE - STIMULATE:				
OIL AND/OR GAS WELL OR	IGINALLY DRILLED BEFORE	E JUNE 5 1999 FIVE (5) O	OPIES OG - 1, PERFORMANCE	
,	AND ORIGINAL WELL RECO	RD.		
OIL AND/OR GAS WELL OR	IGINALLY DRILLED ON AND	OR AFTER JUNE 5 1929	FIVE CORIES OC. 1 SHOW	
ING ORIGINAL PERMIT NUM	BER, AND PERFORMANCE B	OND.	, TIVE COLLES OG - 1, SHOW-	
Required forms must be filed	within ninety (90) days of cor	unletion for hand add		
Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.				
The following waiver must be	completed by the coal operat	or if the permit is to be is:	sued within ten days of receipt	
VAIVER: I the undersigned, Agent	for Esstern Assoc	Coal Company Owner	or Operator of the past and	
this lease have examined	l and place on our mine maps	this proposed well location	n.	
We the Lossen	Assoc Coal Company hav	o no objections to sell a	•••	
providing operator has co	mplied with all rules and regular	tions in Articles 4.5. and 7.	being drilled at this location,	
Code.		2011 of Actions 4, 5, and 7,	Chapter 22 of the West Virginia	
•		_ /		
		RPL		
and the second s			Coal Company	
		Chief	Eng	
the second of th		The state of the s	Wind Field	