2700' Brea

6-6 SMITHTON FLINT- SEDALIA 99



#### STATE OF WEST VIRGINIA DEPARTMENT OF MINES

### Oil and Gas Division

### WELL RECORD

Company	Quadrangle West Union 7 1 Permit No. 47-017-2359	12		RECORD		Rotary X Cable Recycling Water Floor Disposal	Gas
Well Formation   County   District Central   District Central	Address Box 1610, Greenwi		necticut.	•		Left	Cement fill up
Desired   3-26-79   Cou. ft.   20   2   2   2   2   2   2   2   2	Well No. 1  District Central Commend in W. P. McGuttchan  Address Box 8, West Unio Mineral rights are owned by W. G. HammerAddress Box 8 W	ounty_I& fee by n_WV_ P_McC	ddridge Utchan on, WV	20-16 Cond. 13-10" 9 5/8 8 5/8 7 5 1/2			
Weir - Fraced with 321 bbls. water - 21,000   send - 48,000 SCF N2	Drilling Completed 3-26-7 Initial open flow show Final production 650,000 cu. fl Well open 4 hrs. 1	Gammanananananananananananananananananan	bbls.				
Soil	Coal was encountered at	TODA Company	Fee	t	Inche	es s	Feet
Sand & Shale         soft         10         900           Shale         Black         soft         970         1026           Ist Cow Run         White         soft         1026         1052           Shale         Black         soft         1026         1052           2nd Cow Run         White         soft         1092         1174           Shale         Black         hard         1174         1204           Sand         White         hard         1174         1204           Shale         Black         soft         1330         1345           Shale         Black         soft         1376         1448           Shale         Black         soft         1448         1538           Shale         Black         soft         1585         1684           Shale         Black         soft         1585         1684           Sand         White         hard         1538         1585           Shale         Black         soft         1700         1794           Big lime         White         hard         -1794         1884         1988           Shale         Black	****		Top Feet	Bottom Feet	Oil, Gas or	Water *	Remarks
	Sand & Shale Shale Black 1st Cow Run White Shale Black 2nd Cow Run White Shale Black Sand White Shale Black Big lime White Big Injun White Shale Black Weir Black	soft soft soft soft hard hard soft hard soft hard soft hard soft hard soft hard soft soft soft soft soft soft	10 900 970 1026 1052 1092 1174 1204 1330 1345 1376 1448 1538 1585 1684 1700 -1794 1884 1988 2130	900 970 1026 1052 1092 1174 1204 1330 1345 1376 1448 1538 1585 1684 1700 1794 1884 1988 2130 2234			er er group
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Signed by \_\_





DEPARTMENT OF MINES

## Oil and Gas Division Oil & GAS DIVISION

DEPT. OF MINES

### OIL AND GAS WELL PERMIT APPLICATION

Address M/A Quadrangle Void Description 7 1/2  Address M/A  THIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisions being in deceriories with Chapter 22 of the W. Vo. Code the location is bereign the permit being more day in location in bereby approved INSPECTOR  for drilling being the permit being more formed with Chapter 22 of the W. Vo. Code the location is bereign the permit of DE NOTIFIED with permit to the permit of Deputy Director - Oil & Gos Division  GENTLEMEN:  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, havitile thereto, (or as the case may be) under grant or lease dated Mental	TO THE DEPARTMENT OF MINES,					
Address. Son 8 West Indoc, V.V.  Mineral Owner  M. P. McColons - L. G. Hammer  Address. Son S. West Linko, V.V.  Location (waters) Advisor Acres 121  Address. Son S. West Linko, V.V.  Location (waters) Advisor Acres 122  Address. District County Address.  District County Address.  Address. MA  Address. MA  Address. District County Address.  THIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisors beins in accordance with Chapter 22  of the W. Vo. Cods, the location is learnly opproved Inspector  for Grilling This powed deal expire if TO BE NOTIFIED The Paul Consection  Operations of the Consection of the Paul Consection of the Paul Consection of the Paul Consection of the Paul Consection of the Consection of the Paul Consection of the Paul Consection of the Consection of the Paul Consection of the Code, must be received by, or filed with the Department of Mines within ten (10) deal of the Copy of the Co	Charleston, W. Va.		DATE	<u> 3/15/79                                     </u>		***************************************
Address Row 6 Yeart Didgo, W.V.  Coal Owner MA Well No. 1 Elevation Country Red Coal Operator MA Coal Operator MA Quadrenge Man Devices For	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Company_		Cas Assoc	iates
Address BOX 6 West United N.V. Location (waters) Arrests Coal Owner W/A Well No. 1 Elevation Z/A Address District Control County Pod Address T/A District Control County Pod Address Address T/A District Control County Pod Address Address All THIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisions being in accordance with Chapter 27 of the W. Va. Cods, the local as is hereby approved INSPECTOR (or drilling the port of th	Address		Address	202 1610		Crores (CC)
Coal Owner M/A  Address.  Well No. 1 Elevation Z  Address.  Well No. 1 Elevation Z  Address.  Well No. 1 Elevation Z  County No. 1  District Control County No. 1  Address.  Well No. 1 Elevation Z  County No. 1  District Control County No. 1  Quadrangle.  Worth Indian 7 1/2  Address.  Well No. 1 Elevation Z  County No. 1  District Control County No. 1  Quadrangle.  Well No. 1 Elevation Z  County No. 1  District Control County No. 1  Quadrangle.  Well No. 1 Elevation Z  County No. 1  District Control County No. 1  Quadrangle.  Well No. 1 Elevation Z  County No. 1  Page 1  Page 1  Page 1  Page 1  Page 2  District Control No. 1  District Control County No. 1  District Control No. 1  Page 2  Deputy Director Oil & Gos Division  Deputy Director Di	Mineral Owner . P. Catcan - L.	G. Hammer	Farm Ha	ammer#1888	Ammil Acr	es
Address	Address Box & Wast Union, W.V.	ş	Location	(waters)		<b>.</b>
Address NA Quadrangle Vant Profess 7 3/2  Address NA THIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisions being in describers with Chapter 27 of the W. Vo. Code, the lace is in berely opproved INSPECTOR for drilling operator of the will be been being in describers with Chapter 27 of the W. Vo. Code, the lace is in berely opproved INSPECTOR for drilling operator is entitled to drill upon the above named farm or tract of land for oil and gas, havitile thereto, (or as the case may be) under grant or lesse dated 182 12 19.79 by m. F. NecUcham made to Petrolesse Services, Inc. and recorded on the 13 day of 19.79 in Describers made to Petrolesse Services, Inc. and recorded on the 13 day of J. Page 162 New Well Drilling Dr	Coal Owner N/A			- AND	Elev	vation 918
Coal Operator  MA  Address  THIS PERMIT MUST BE POSTED AT THE WELL SITE  All provisions being in acceptance with Chapter 22. of the W. Va. Code, the location is hereby approved INSPECTOR for drilling. The words shall expire if TO BE NOTIFIED to Paul Correct.  Deputy Director Oil & Gas Division  FHONE 622-3071  Deputy Director Oil & Gas Division  GENTLEMEN:  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and ges, havititle thereto, (or as the case may be) under grant or lease dated 122 19,72 by and recorded on the 13 day of 19. in Doddridge County, Book 107 Page 142  NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMUL OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.  The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or open have been notified as of the above date.  The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are rector make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.  Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal open or coal owners at their above shown respective address of coal owners at their above shown respective address of commence and the enclosed plat were mailed by registered mail, or delivered to the above named coal open or coal owners at their above shown respective address of the coal open or coal owners at their above shown respective address of the coal open of the department of the coal open oncide and plat by the department of mines, to said proposed location, the department of the department of the the survey of the filling of such plat, that no objections have been made by the open made by the open made by th	Address		District	Compression of S		
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of the W. Vo. Cods, the leaction is hereby operaved INSPECTOR for drilling	THIS PERMIT MUST BE POSTED AT THE	WELL SITE				
for drilling operations should expire if TO BE NOTIFIED Mr. Paul Carmett  operations here that commenced by 11-16-79 ADDRESS 321 Beach St. Clarksburg, W.V.  Deputy Director - Oil & Gos Division  GENTLEMEN:  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, havititle thereto, for as the case may be) under grant or lease dated 120 12 19.79 by and recorded on the 15 day of 19.79 in Dodridge County, Book 107 Page 142  NEW WELL DRILL DEFFER REDRILL FRACTURE OR STIMUL OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.  The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or open have been notified as of the above date.  The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are rectored by section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.  Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal open or coal owners at their above shown respective address day before, or or same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.  Very truly young the Control of the Code of Well Operator Street Office of Town  City or Tow						
Deputy Director Oil & Gos Division  GENTLEMEN:  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, havi title thereto, (or as the case may be) under grant or lease dated Jan 12.  19.79 by made to Petitoless Services. Lac. and recorded on the 15 day of Jan 19.79 by made to Petitoless Services. Lac. and recorded on the 15 day of Jan 19.79 in Dockstone Medical Despets Republic Practure Or Stimul Oil And Gas Well Originally Drilled Before June 5, 1969.  The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or open have been notified as of the above date.  The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are rector make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.  Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal open or coal owners at their above shown respective address day before, or or same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.  PLEASE SUBMIT COPIES OF ALL (Sign Name)  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address Street  Of One 10. Docks 179  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address Of Well Operator  WEST VIRGINIA GEOLOGICAL AND City or Town  Cornecticat O6830  State  *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the reconcite and plat by the department of mines, to said proposed location, the department of mines to the well operator appendix the same is the filling of such plat, that no objections have been made by the coal operators or found thereto by the well operator appendix the same is the same in the same is the same in the same in the same is the same in the same in the same is the same in				TED *** ***	and Commence between	
Deputy Director Oil & Gas Division  PHONE 622-3871  Deputy Director Oil & Gas Division  PHONE 622-3871  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, havititle thereto, (or as the case may be) under grant or lease dated Jan 12 19.79 by an or consider the case may be) under grant or lease dated Jan 12 19.79 by day of Jan 19.79 in Dockridge County, Book 107 Page 14.2  NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMUL OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.  The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operator are hereby notified that any objection they wish to make, or are rector make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.  Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal oper or coal owners at their above shown respective address day before, or or same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.  PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND Cryptical Company of Well Operator  WEST VIRGINIA GEOLOGICAL AND Company of Well Operator  WEST VIRGINIA GEOLOGICAL AND Company of Well Operator  WEST VIRGINIA GEOLOGICAL AND Company of Well Operator  *Street*  OIL AND GAS WELL OF Town  City or Town  Company of the Copy of the Copy of the Department of Mines, within said period of ten days from the received of the part were mailed by the coal operators or found thereto by the department and the the sme is ease.	Application of the Committee of the Comm					
GENTLEMEN:  The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, havititle thereto, (or as the case may be) under grant or lease dated	operations new review 11	=16-79 ADI	DRESS	121 Fearth St.	Clarksh	
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title thereto, (or as the case may be) under grant or lease dated Jen 12 19 79 by made to Petrolean Services, Inc. and recorded on the 15 day of 19 70 in Doddridge County, Book 107 Page 142	GENTLEMEN:					ade al estado de 1966. Se estado en estado en 1966.
made to County, Book 107 Page 142  NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMUL OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.  The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or open have been notified as of the above date.  The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are rector make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days.  Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal oper or coal owners at their above shown respective address day before, or or same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.  PLEASE SUBMIT COPIES OF ALL (Sign Name)  Well Operator  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY Address of Street  O. BOX 879  MORGANTOWN, WEST VIRGINIA 26505  Well Operator  *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the reconotice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit of the filing of such plat, that no objections have been made by the coal operators or found therether and that the same is the filing of such plat, that no objections have been made by the coal operators or found therether and that the same is the filing of such plat, that no objections have been made by the coal operators or found therether and that the same is the filing of such plat, that no objections have been made by the coal operators or found therether and that the same is the filing of such plat, that no objections have been made by the coal operators or found therether and that the same is the filing of such plat, that no objections have been made or the coal operators or found therether and that the same is the filing of such plat, that have one that the	The undersigned well operator is entitled to	drill upon the a	above named	farm or tract of l	and for oil an	d gas, having fee
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or coal owners at their above shown respective address						
same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.  Very truly yours,  Industrial George Associate  Well Operator  WEST VIRGINIA GEOLOGICAL AND  ECONOMIC SURVEY  Address of Well Operator  Well Operator  Well Operator  City or Town  City or Town  Canacticat 06830  State  *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the recent of 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 an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operators or found thereto by the department and that the same is an example of the coal operator or found thereto by the department and that the same is an example of the coal operator or found thereto by the department and that the same is an example of the coal operator or found thereto by the department and that the same is an example of the coal operator or found the coal operator or	or coal owners at their above shown respective	are mailed by re	egistered ma	il, or delivered to the		
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:  WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 AC-304 - 292-6331  *SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the recent notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit of 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 an instance of the department of the department and that the same is an instance of the depart	same day with the mailing or delivery of this co	py to the Depar	rtment of M	lines at Charleston,	West Virginia.	re, or on one
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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 recent notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit 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 an	$\label{eq:constraints} \varphi_{i,j} = \varphi_{i,j} = \varphi_{i,j}  \text{where } i \in \mathbb{N} \text{ and } i$				alle date and the second second	
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and the operator authorized to proceed.	the filling of such plat, that no objections have been made	by the coal opera	ators or found	thereto by the depart	ment and that t	he same is approved
	operator authorized to proceed.					es Sign
47-017-2359 PERMIT NII				47-017-2	:359	PERMIT NUMBER
"I have read and understand the reclamation requirements as set forth in	"I have read and understand the reclamation requires	ments as one for-	h in			LACCOLL IN UNIDER

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

PROPOSED WORK ORDER TO	DRILL	DEEPEN	FRACTURE-STIMULATE		
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGEN			
NAMEStateMap			The state of the s		
ADDRESSCOD					
TELEPHONE462-7092		TELEPHONE 345-7484			
ESTIMATED DEPTH OF COMPL	ETED WELL: 2700	ROTARY	_ CABLE TOOLS		
PROPOSED GEOLOGICAL FORM	MATION:				
TYPE OF WELL: OIL_	GAS	COMB STORAC	GE DISPOSAL		
			LOODOTHER		
TITLE THE ACTION OF THE PARTY O					
TENTATIVE CASING PROGRAM	i:				
CASING AND TUBING	USED FOR	LEFT IN	(2.341 NT) 1 12 7 (10)		
SIZE	DRILLING	WELL	CEMENT FILL UP OR SACKS - CUBIC FTY		
20 - 16					
13 - 10					
9 - 5/8					
8 - 5/8		240	Circ.		
7					
5 ½		of Me No. As			
4 ½			125 860		
2			Perf. Top		
Liners			Perf. Bottom		
			Perf. Top		
			Perf. Bottom		
TO DRILL DEEPER OR REDRILL SUBMIT FIVE (5) COPIES O	L: F OG - 1, SHOWING ORIG D 1929, A PERMANENT C	INAL PERMIT NUMBER A	BOND AND PERMANENT COPY  ND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD		
OIL AND/OR GAS WELL ORI ING ORIGINAL PERMIT NUM	IGINALLY DRILLED ON A IBER, AND PERFORMANCE	CORD. ND/OR AFTER JUNE 5, 19 BOND.	COPIES OG - 1, PERFORMANCE 29, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty-		
	λ				
The following waiver must be	completed by the coal ope	erator if the permit is to be	issued within ten days of receipt		
VAIVER: I the undersigned, Agent this lease have examined	for	Coal Company, Owne	r or Operator of the coal under		
			vell being drilled at this location,		
providing operator has con Code.	mplied with all rules and regu	ulations in Articles 4, 5, and	7, Chapter 22 of the West Virginia		
			in the state of th		
		F	or Coal Company		

Official Title