



IV-35 (Rev 8-81)



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

State of Mest Virginia Bepartment of Mines

Gil und Gas Bivision

Date <u>August 31, 1988</u> Operator's
Operator's
Well No
FARM DENZIL BONNER
API No. <u>47 - 95 - 0978</u>
ERAM

WELL OPERATOR'S REPORT

OF

DRILLING,	FRACTURING	AND/OR	STIMULATING,	OR	PHYSICAL	CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production XX Undergro	on/Wast	e Disposa ge / Dee	1/ p / Sha	ıllow /)
LOCATION: Elevation: 742 Watershed /	MIDDLE	T.540	WA (REEK
District: UNTON County 7				
COMPANYHI-WEST PETROLEUM & EXPLOR	ATTOU		· · · · · · · · · · · · · · · · · · ·	
ADDRESS P.O. BOK 731, MARIETTA, OKTO 4	575000	Used in	Left	Cement
DESIGNATED AGENT KARFU SAYEK	Tubing		in Well	fill up Cu. ft.
ADDRESS 4/2 STREET, Williamstown, WU 2	1876	DITTING	TIL METT	Cu. It.
SURFACE OWNER) FUZIL ROUGEL	20-16			
ADDRESS 667 KUO / WOOD DETUE, MT. ATRY	Cond.			
MINERAL RIGHTS OWNER SOME UP 27030	9 5/8	1		
ADDRESS SAME	8 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK FORELT	_			
OWTHER ADDRESS CD, MIDDLE POULUE, I	2/1/2			
PERMIT ISSUED $4/1/87$, $36/4$	4 1/2			
DRILLING COMMENCED SHOT 4/8/87	3			
DRILLING COMPLETED $4/10/87$	2	11.201	11. 201	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	4	Ros	16aU	BING 1 HOLE
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used	701	$\frac{1}{2}$	III B
ON	useu	Put 1	PACK IN	Hole
GEOLOGICAL TARGET FORMATION		Dept	-h	feet
Depth of completed wellfeet	Rotary	/ Cable	Tools	
Water strata depth: Freshfeet;	Salt	feet		
Coal seam depths:	Is coal	being mine	ed in the	area?
OPEN FLOW DATA				
Producing formation KEEUEL	Pay	zone dept	h 11020) feet
Gas: Initial open flow /O Mcf/d		and the second s		
Final open flow 35 Mcf/d				
Time of open flow between init	ial and fi	nal tests	24 hor	irs
Static rock pressure 5/0 psig(surface	e measurem	ent) after	24 hour	rs shut in
(If applicable due to multiple completion				
Second producing formation	Pay	zone dept	-h	feet
Gas: Initial open flow Mcf/d				
Final open flow Mcf/d				
Time of open flow between init				
Static rock pressurepsig(surface	measureme	nt) after_	hou	rs shut in

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

SHOT With 40 quarts Nitro FROM 1620'-1635' ON 4/8/87

WELL LOG

			, v		
FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
					DECEIVE
					SEP 0 6 1988
		· · · · · · · · · · · · · · · · · · ·	•		DIVISION OF OIL & GAS DEPARTMENT OF ENERG
				•	
•	·	·			

(Attach separate sheets as necessary)

Hi-WEST	PETROLEUMÉ.	EXPLORATION
ROBELT LEH	etor (1	
By:	188	2
	· -	

TEP 0 9 1988





IV-35 (Rev 8-81)

WELL TYPE:

PEB 20 1987

State of West Wirginia

Department of Mines Gil und Gas Division

Date July 25, 1982
Operator's Well No. Glydis Bonner #1
Farm Glydis Bonner Estate
API No.47 - 95 - 0978

(Continue on reverse side)

MAR 0 3 1987

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Oil XX / Gas XX / Liquid Injection / Waste Disposal

The state of the s	ddle Islan			
District: Union County Tyles	r	Quadrangle	Bens Ru	n
				·
COMPANY Lauderman Oil & Gas				
ADDRESS P. O. Box 266, Paden City, WV 26159	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Phillip Morgan	Tubing	Drilling	in Well	Cu. ft.
ADDRESS P. O. Box 266, Paden City, WV 26159	Size			
SURFACE OWNER Glydis Bonner Estate	20-16 Cond.			
Denzil Bonner - Executor ADDRESS 1848 Pershing Way, Morrow, GA 30260	13-10"			
MINERAL RIGHTS OWNER Same	9 5/8	385' - 1	.3/8" Yes	Yes
ADDRESS Same	8 5/8	1,147	Yes	No
OIL AND GAS INSPECTOR FOR THIS WORK Phillip	7	Section 2	a Js	: N
Tracy ADDRESS Rt. 23, Alma, WV 26320	5 1/2		·	
PERMIT ISSUED December 30, 1981		-		
DRILLING COMMENCED February 15, 1982	4 1/2	1		
DRILLING COMPLETED June 25, 1982				37 -
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2	1620	Yes	No
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners		and the second	
REWORKING. VERBAL PERMISSION OBTAINED ON	used			
GEOLOGICAL TARGET FORMATION Ohio Shale	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Dep	th 5999'	feet
	Rotary	/ Cable	e Tools	XX
Water strata depth: Fresh 40'-60' feet;	Sulfur Salt 365			
Coal seam depths: None		being min		area? No
OPEN FLOW DATA				5-1 5 -1
Producing formation Keener & Big Injun		zone dep		
Gas: Initial open flow 20,000 Mcf/d Final open flow (20,000 Mcf/d)			15	Bb1/6
The span stand		nal open f		BD1/C
				urs
Static rock pressure 140 psig(surface	e de la company de la comp	ent) arte	<u> </u>	rs snut II
(If applicable due to multiple completion		and Andria		
Second producing formation		zone dep		fee
	Oil: Ini			Bb1/c
	Oil: Fir			Bb1/c
Time of open flow between init	ial and fi	nal tests	hc	urs

' FORM'IV-35 (REVERSE).

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

√ Natural

WELL LOG

Sand Stone & Top Soil 0 50 90 White Lime - Hard 90 125 148 155 148 155 170 195 170			, , ,	REMARKS
Sand Stone & Top Soil	FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	
Blue Rock				and salt water, coal, oil and gas
Blue Rock	Carl Crack Tom Cod1	0	50	1
White Lime - Hard Sand Sand 125 148 Slate Lime - Hard Red Rock 170 195 Black Lime - Hard Red Rock 210 226 Lime Hard Red Rock 226 258 Red Rock 258 290 Slate Lime 346 382 Slate Lime 346 382 Slate Lime 346 382 Slate Lime 385 400 Slate 400 409 Slate 400 409 Slate 400 409 Slate Lime 445 Lime 445 Lime 445 Lime 445 Lime 445 Shale Sand Slate 490 Slate 557 Slate 490 Slate 490 Slate 557 Slate 590 Slate 557 Slate 590 Slate 557 Slate 590 Slate 557 Slate		_		From Mator
Sand 125			1	riesh water
Slate				
Lime - Hard Red Rock 170 195 195 210 Red Rock 210 226 258 Red Rock 228 258 Slate 290 Slate 290 Slate 325 Slate 346 Lime 346 348 385 Lime 386 Slate 400 Slate 400 409 Slate 430 Slate 430 Slate 430 Slate 445 Lime 445 Lime 445 Lime 445 Shale 557 Red Rock 627 Lime Rock 627 Red Rock 633 Slate 643 Red Rock 51ate 643 Red Rock 710 745 Slate 764 Shale 766 Since 170 170 175 170 170 170 170 170 170 170 170 170 170				
Red Rock 170 195 Black Lime - Hard 195 210 Red Rock 210 226 Lime Hard 226 258 Red Rock 258 290 Slate 325 346 Lime 346 382 Lime 385 400 Slate 400 409 Sand 409 430 Slate 430 445 Lime 445 455 Shale 455 475 Slate 475 483 Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 627 643 Red Rock - Slate 615 627 Lime 627 643 Red Rock - Slate 663 710 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 745 764 Shale 745 764 Shale 745 764 The property of the property				
Black Lime - Hard 195				
Red Rock 210 226 Lime Hard 226 258 Red Rock 258 290 Slate 290 325 Slate 325 346 Lime 382 385 Lime 385 400 Slate 400 409 Sand 400 409 Slate 430 445 Lime 445 455 Shale 475 483 Sand 483 480 Slate 475 483 Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 590 615 Blue Rock 615 627 Lime 643 650 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 745 764 Shale 764 795				
Lime Hard Red Rock Slate				
Red Rock 258 290 325 325 346 325 346 325 346 382 382 382 382 382 385 382 385 385 385 385 385 400 385 400 385 400 400 409 430 483 400 409 430 483 483 445 455 483 490 490 496 496 496 496 496 496 496 496 496 496 496 496 496 496 496 496 496				
Slate 290 325 346 Lime 346 382 385 Ran Surface Casing Lime 385 400 409 430 State 400 409 430 State 445 455 455 455 475 483 483 490 496 483 490 496 490 <			1	
Slate		1		
Lime Lime Lime Lime Lime Lime Sand Slate Sand Slate Lime Sand Slate Lime Shale Lime Shale Lime Lime Shale			1	
Lime Lime Slate Slate Sand Slate Lime Shale Slate Lime Slate Lime Shale Sh				0.16
Lime 385 400 Slate 400 409 Sand 409 430 Slate 430 445 Lime 445 455 Shale 455 475 Slate 475 483 Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 590 615 Blue Rock 615 627 Lime 627 643 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795		4	1	
Slate				Ran Surface Casing
Sand Slate Lime 430 445 Lime 445 Shale 455 Shale 475 Slate 475 Slate 475 Slate 476 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate Lime 590 615 Blue Rock Lime 627 643 Red Rock - Slate Lime 627 Red Rock - Slate Lime 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale Red Rock 710 745 Slate Shale 764 795	Lime	1	1	
Slate	Slate	1	1 1	
Lime Shale Shale Shale 445 455 475 Slate 475 Slate 475 Slate 483 490 Slate Lime - Hard Red Rock & Slate Lime Blue Rock Lime Red Rock - Slate Lime Red Rock - Slate Lime - Sandy Red Rock Slate & Shale Red Rock Slate & Shale Red Rock Slate Shale FEB 20 1987 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY DIVISION OF OIL & GAS DEPARTMENT OF ENERGY Total	Sand	L	1	
Shale 455 475 Slate 475 483 Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 615 627 Blue Rock 615 627 Lime 627 643 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795	Slate	1		
Slate 475 483 Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 615 627 Blue Rock 615 627 Lime 627 643 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795	Lime			
Sand 483 490 Slate 490 496 Lime - Hard 496 557 Red Rock & Slate 557 590 Lime 590 615 Blue Rock 615 627 Lime 627 643 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795	Shale			
Slate	Slate	1	483	
Lime - Hard Red Rock & Slate Lime Slue Rock Lime Red Rock - Slate Lime - Sandy Red Rock Slate & Shale Red Rock Slate & Shale Red Rock Slate Shale Shale 496 557 590 615 627 643 627 643 650 663 710 745 745 764 795	Sand		1	
Red Rock & Slate 557 590 Lime 590 615 Blue Rock 615 627 Lime 627 643 Red Rock - Slate 643 650 Lime - Sandy Red Rock 650 663 Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795	Slate			
Lime Blue Rock Lime Red Rock - Slate Lime - Sandy Red Rock Slate & Shale Red Rock Slate & Shale Red Rock Slate Shale Sha	Lime - Hard	T -	1	
Blue Rock Lime Red Rock - Slate Lime - Sandy Red Rock Slate & Shale Red Rock Slate & Shale Red Rock Slate Shale Shale 615 627 643 650 663 710 745 745 764 795 FEB 20 1987 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY	Red Rock & Slate			
Lime Red Rock - Slate Lime - Sandy Red Rock Slate & Shale Red Rock Slate & Shale Red Rock Slate Shale Shale 627 643 650 663 710 745 745 764 Shale	Lime	590	t I	
Red Rock - Slate 643 650 DIVISION OF OIL & GAS Lime - Sandy Red Rock 650 663 DEPARTMENT OF ENERGY Slate & Shale 710 745 Slate 745 764 Shale 764 795	Blue Rock	615	627	FFR 20 1007
Lime - Sandy Red Rock Slate & Shale Red Rock Slate Shale 710 745 745 764 Shale 764 775	Lime	627	643	1 LD 20 130/
Slate & Shale Red Rock Slate Shale 710 745 745 764 Shale 764 775 764 775	Red Rock - Slate	643	650	DIVISION OF OUR & CAR
Slate & Shale 663 710 Red Rock 710 745 Slate 745 764 Shale 764 795	Lime - Sandy Red Rock	650	663	DEPARTMENT OF ENERGY
Slate 745 764 Shale 764 795	_	663	710	DEI ARTIVIERT OF EINERGY
Shale 764 795	Red Rock	710	745	
	Slate	745	764	
		1	795	
	Sandy Shale	795	800	
Slate - Soft 800 826		800	826	
Lime - Hard. 826 839				
Black Slate (Attach separate sheets as necessary)	Black Slate	(Attach ser	arate sheets	as necessary)

Well Operator	
By:	
Date:	

over->

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including wal, encountered in the drilling of a well."

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

WELL LOG

			REMARKS
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	Including indication of all fresh and salt water, coal, oil and gas
FURPATION WHEN THE ON THE			and salt water, coar, our and just
(2)			
	845	855	
Slate	855	874	
White Sand - Cow Run	874	915	
Slate	915	933	Smell of Oil
White Sand - 2nd Cow Run	933	940	
Slate	940	945	
Sand	945	953	
Sandy Shale	953	970	IN RUSSOV [FI]
White Sand	970	996	
Black Shale		1005	FEB 20 1987
Sand	996	1020	
Sand & Lime	1005 1020	1124	DIVISION OF OIL,& GAS
Black Shale	1124	1129	DEPARTMENT OF ENERGY
Sand	1124	1133	
Lime		1144	
Shale	1133	1200	Ran 8 5/8" Caseing to 1,147'
First Salt Sand	1144	1223	Addition of the second of the
Blue Sand	1200	1248	
Rlack Shale	1223	1305	
White Sand - Soft 2nd Salt	1248	1337	
Shale	1305		
Sand - White 3rd Salt	1337	1357	
Shale & Lime	1357	1363	'
White Sand	1363	1377	
Gray Sand - Hard	1377	1397	
Sandy Shale	1397	1410	
Black Shale	1410	1457	Smell of Oil
Sandy Lime	1457	1471	
White Sand - Maxon	1471	1498	Show of Gas
	1498	1518	
Sandy Shale	1518	1527	
Black Shale	1527	1535	
Black Lime - Hard	1535	1620	
Big Lime - Hard	1620	1635	Show of oil
Keener Sand	and the second		
		}	
		•	

(Attach separate sheets as necessary)

Lauderman Oi	& Gas	
Well Operato	or	
By Tubu	19	
	Júly 25, 1982	
Date:	041, 33,	

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."



Farm GLYOIS BONNER ESTATE
API #47 -095 - 03-8 978
Date 12/23/81

STATE OF WEST VIRGINIA OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

			•••••
	•		
DILAND	GAS WELL	PERMIT	<u>APPLICATION</u>

WELL TYPE: 011 // Gas //	
(If "Gas", Production v	// Underground storage / Deep // Shallow /
LOCATION: Elevation: 742 District: ONION	Watershed: MIDDLE SLAND CREEK County: TYLER Quadrangle: BENS RUN
WELL OPERATOR AUDERMAN OIL & GAS Address PADEN CITY, W.VA.	ACUST Address SAME
ROYALTY OWNER GIADIS BONNER Address 1848 PERSHING WAY, MORROW, GA. 30260	COAL OPERATOR N/A Address
SURFACE OWNER GLYDIS BONNER E Address 5PME	COAL OWNER(S) WITH DECLARATION ON RECORD: STATE NAME Address
Acreage 50	NAME NAME Address
NAMEA Address	COAL LESSEE WITH DECLARATION ON RECORD:
OIL AND GAS INSPECTOR TO BE NOTIFIED NAME PHILLIP TRACY	Address
Address RT. 23 ALMA W.VA. 1632 Telephone 304 - 758-4573	JAN 1 5 1982
The undersigned well operator above location under a deed/ to the undersigned well operator from (If said deed, lease, or other cont.)	is entitled to operate for oil or gas purposes at the lease / other contract / dated / NOCO, 198/, om / DENZIC DONNER.
_	n the office of the Clerk of County Commission of
PROPOSED WORK: Drill / Dril Plug off old for	nia, in <u>229</u> Book at page <u>287</u> . A permit is 1 Deeper/ Redrill/ Fracture or stimulate/ mation/ Perforate new formation/ hange in well (specify)
The above named coal operator, coal objection they wish to make or are Department of Mines within fifteen Copies of this Permit Application a mailed by registered mail or delive er(s), and coal lessees on or beforto the Department of Mines at Charles	own on the work order on the reverse side hereof. owner(s), and coal lessee are hereby notified that any required to make by Code \$22-4-3 must be filed with the (15) days after receipt of this Application by the Dept nd the enclosed plat and reclamation plan have been red by hand to the above named coal operator, coal owner the day of the mailing or delivery of this Application eston, West Virginia.
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS	LAUDERMAN CIL & CAS DRILLING CO. Well Operator
CONSERVATION COMMISSION 1613 WASHINGTON ST., E. CHARLESTON, WV 25311 Telephone - 304/348-3092	BOND By:

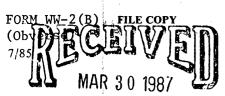
(Reverse)

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY: ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CO	NTRACT	DR (IF-I	KNOWN)				•		••	·
		Ad	ddress							
GEOLOGICAL Estimated Approxima Approxima Is coal	ate wa ate co	ter stra al seam	ata dept depths:	hs: _ <i>\//</i>	Fresh, A	9 fee 9 No_	feet;	ry / Cabl salt, 1600	e tools feet.	·/
CASING AND	TUBING	PROGRA	M				•			
CASING OR		SPE	CIFICATI	ONS	•	•		CEMENT FILL-	PAC	KERS
TUBING TYPE		l Grade	Weight per ft	l Now	الامط		- Left in	UP OR SACKS Cubic ft.		•
Conductor	3126	u aue	per it	Hew	useu	11119	WEII		Kinds	
Fresh water	113/4	ERW	34	1		3120 FC	RETITIE	7,006		
Coal	898		32	V		840' FO	R AIR.	lo Oufo	Sizes	.55
Intermed.	1	0	10-	1/	!		· /		04	
Production Tubing	41/2"	CW	10.5	V	<u> </u>	EMENT	FO TO 1.U.	OF WELL	Depths	set
Liners	<u> </u>			 	 	-			Perfora	tions:
				†	 				Тор	Bottom
									1	
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	······································
822-4 requi: 822-4 posed A sep where	-12b ared by -8a fr well. arate fract t and IT MUST Va. Code ing	nd Regularized Regularing of the local Regularing of the local Regularing of the local Regularing R	lation 2 22-4-12a owner of -2 shall r stimul d as suc ED AT THE conce with a ion is hereb is permit sh by 9-18	i, and any not lating th on WELL Charter	v) un (v) water be red is to the Fo SITE 22,	less prev if applic well or quired fo o be part	iously parable, the dwelling of the wo	ation require id on the same consent require within 200 fer ing or stimularly for which connection the	ne well, wired by set of t lating d n a perm	the fee Code The pro- well wit is
or con is to is to like undersige location has area of the signed has n	al les be is ned co exami well l o obje or has g regu	see who sued wi pal oper ned this ocation to complie than in the complications	has rectant fifteen fit	corded fteen _/ owr sed we ell lo	WAI er ll lo cation	claration days of r VER lesses cation. on has been	under Confeceipt the	rator and by de \$22-4-20, ereof: the coal und map exists to the mine map is location, of the West V	<pre>if the er this which c ap. Th provid</pre>	well overs the e under- ed the
					E	By: <u>Og</u>	ent	. <i>U</i>		
lts:										





1) Date: Marcl	n 23,			_, 15 <u>.</u> 87
2) Operator's #	1			W
3) API Well No.	47	95	0978	-FRAC
•	State		Country	D

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A C	oil XX	/ Ga	as X	X/						
	В (If "Gas",	Production	n			nderground	storage	/ Deep	/ Shallow	XX
5) LOCATIO	N: Ele	evation: _	742'		1	w	atershed: _	<u>Middle Isla</u>	nd Creek		,
	Di	strict:	Union	604	10	C2	gunty:T	yler 095	Quadrangle:	Bens Run	241
6) WELL OP	ERATOR	Hi-Wes	t Petr	oleu	m_&CO	DE: 🎉	1978	7) DESIGNATE	DAGENT Karen	Sayer	
Address	P	O. Box	731 ^{EX}	bror	ation			Address	Quadrangle: _ DAGENT <u>Karen</u> 4½ Street		
	Mar	ietta,	Ohio	457	50		_		<u>Williamstown</u>		87
8) OIL & GA	S INSPEC	CTOR TO	BE NOTI	FIED				9) DRILLING C			
Name R	obert :	<u>Lowthe</u>	<u>r</u>					Name <u>Ger</u>	ald W. Lauder	man	
Address	<u> G</u>	<u>eneral</u>	<u>Deliv</u>	ery			_	Address	101 E. Mad		
	<u>M</u>	<u>iddleb</u>	ourne,	WV	2614	9	_		Paden City	, WV 261.	59
10) PROPOSE	b WELL	WORK:	Drill		_/ Dril	l dee	eper	/ Redrill	/ Stimulate_X	(X. γ :	
ŕ			Plug of	fold	formatio			ate new formation			
	£						specify)				
II) GEOLOGI	CAL TAR	GET FOR	MATION	, TD	1635	1	?			:	
12) Estima							feet			:	
13) Appro	1						eet; salt		feet.		
	t							al being mined in th	e area? Yes	/ No	/
15) CASING A	ND TUB	ING PRO	GRAM					•			
CASING OR	1f	SPEC	IFICATIONS	5		! }	FOOTAGE	INTERVALS	II CEMENT FILL-UP	PACKE	ers
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	Fo	r drilling	Left in well	OR SACKS (Cubic feet)		
Conductor	1		F					2317 131 1121	(Cabit Reti)	Kinds	
Fresh water				<u> </u>						Kilius	
Coal	1	†	·		1	1				Sizes	
Intermediate	†	1								J. Sizes	
Production	1	ļ								Depths set	
Tubing	SEE	ENCLOS	ED COM	PLET	ON R	EPORT	, , , , , , , , , , , , , , , , , , , 		1	Deptilis set	
Linc.		<u> </u>								Perforations:	
								<u> </u>		Top	Bottom
		1								1 .0	Bottom
									1	1	
	<u>'</u>	L	•		1	·ı				- B	
Rework:	Shoot	ing wi	th 40	quar	ts of	Nitr	o from	1620' to 16	35 '		
			······································			OFFI	CE USE (ONLY			
	6		. 1				LING PE				
		005 00	W							1	
Permit number _	1 4/-	-095-09	/8-FR/	7C		-		<u> </u>	April 1		19 87
	5								Da		
I his permit cove	ring the w	ell operato	or and well	l location s	on shows	n below :	is evidence in the hereof No.	of permission grant	ed to drill in accordar	ice with the pert	inent legal re-
o. 8) Prior to th	e construct	tion of roa	ds, locatio	ns and	nits for	anv pern	itted work.	In addition, the v	ven to the District Oil vell operator or his cor	and Gas Inspect ntractor shall not	or, (Refer to ify the proper
district oil and g	as inspecto	or 24 hours	before ac	tual pe	rmitted	work has	commence	d.)	•		
The permitted w	ork is as d	escribed in	the Notic	e and A	pplication	on, plat,	and reclam	ation plan, subject	to any modifications a	and conditions sp	ecified on the
everse hereof.										,	•
Permit expires _	ř	April	1, 19	189			_unless well	work is commenced	d prior to that date and	prosecuted with	due diligence.
r											
Bond:	Agent	P	lat:	Calsyi	no	Fee_	WPCP	SAR	Other		
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NOTE: Keep o	ne copy of	this perm	it posted a	it the d	rilling lo	cation.	n.	iront of the	H/-: // 0/ 0:1'	1 0-	

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.