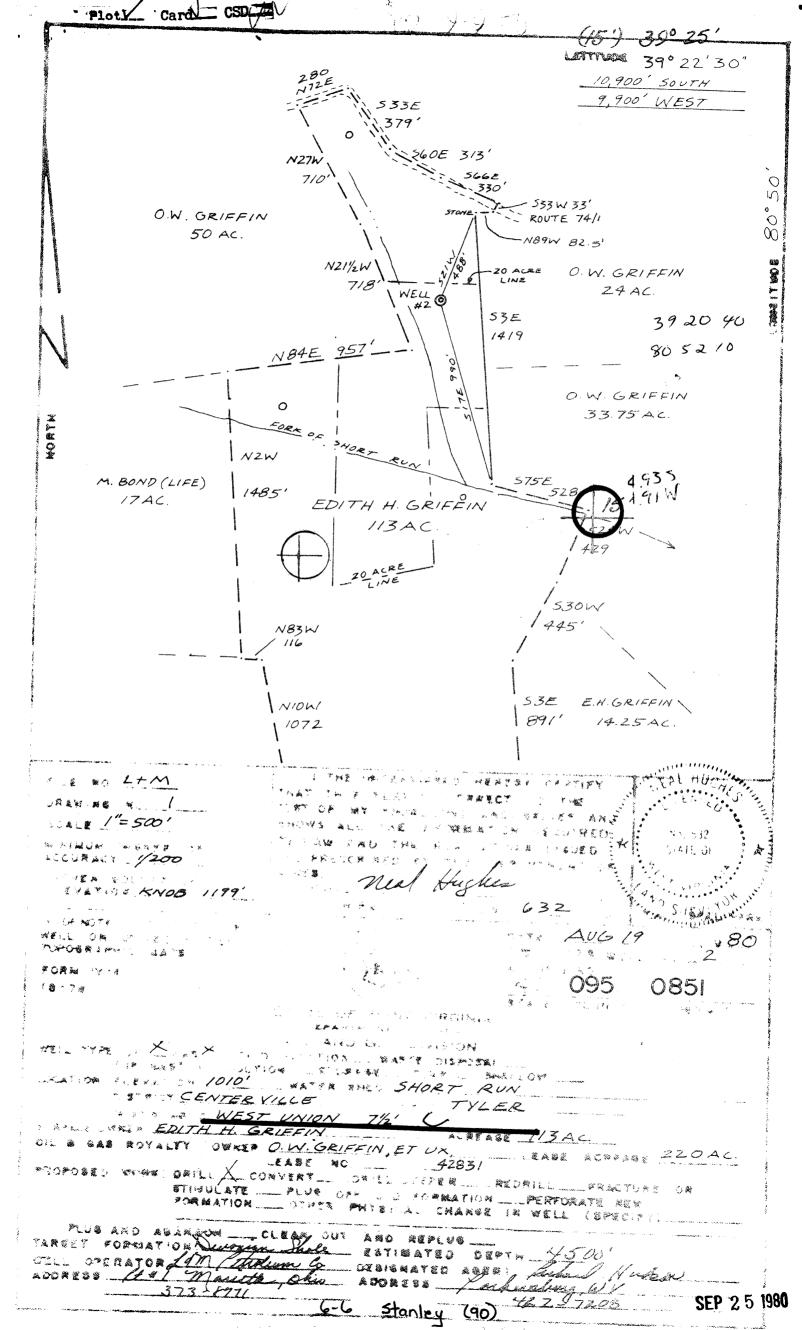


Voca di la Dicti de Onialdal -



WR-35



DEPARTMENT OF ENERGY Gil und Cas Bivision

Date :	10-30-86	
Operator '	's	
Well No.	# 1	
Farm Grif	ffin	
API No. 4	7 _ 095	_ 0851-D

DIVISION OF OIL,& GAS DEPARTMENT OF ÉNERGY

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL 1	rype:	Oil / Gas								allow	/)
LOCAT:	ION:	Elevation: 1	.010 ' W at	ershed	Sho	ort Ru	n				
		District: Cente	erville Co u	inty T	y16	er	Ç	uadrangle	e West	Union	
COMPAI	MY Api	palachian Energy	Development	, Inc.	_						
ADDRE	SS _{PO}	Box 902, Belingt	on, WV			Caşir	ıg	Used in	Left	Cem fil	ent 1 up
DESIG	NATED	AGENT George W	Villiams		1	Tubir	ıg	Drilling	in Well		ft.
ADDRE:	SS PO	Box 902, Beling	gton, WV		Ì	Size					
SURFA	CE OW	NER Edith Griff	in			20-16 Cond.					
ADDRE	SS_R	t. 2, Alma, WV		-,	Ì	13-10				1	
MINER	AL RI	GHTS OWNER			ł	9 5/8				 	
ADDRE	SS							295 '	295 '	125	sks.
OIL A	ND GA	S INSPECTOR FOR	R THIS WORK_			8 5/8	2	293	273	123	310.
Rober	t. Low	ther ADDRESS Mid	ldlebourne, W	V		7					
PERMI	T ISS	UED 9-2-86				5 1/2		2467 '	2467'	100	sks.
		OMMENCED 10-2	1-86			4 1/2	-			_	
DRILL	ING C	OMPLETED 10-30)-86		ļ	3			10754	105	
		BLE: PLUGGING		ON		2	7/8''		4975 '	195	sks.
REWOR		PROGRESSION FT VERBAL PERMIS				Liner used					
CN_	IVA		•			<u> </u>			L		
GEOLO	GICAL	TARGET FORMAT	ION Benson					Dept	th494	3 '	feet
	Depth	of completed v	well 4983'	feet	R	otary_	XX	_/ Cable	e Tools_		
		strata depth:					Repor	ted feet			
	Coal	seam depths:	No Record			Is α	oal b	being mine	ed in th	e are	a?
OPEN	FLOW	DATA									
	Produ	cing formation	Combination	Benson/Ri	.le	у	Pay	zone dept	th <u>4398'</u> /	4943	feet
	Gas:	Initial open:	flow0	Mcf/d	(Oil:	Init	cial open	flow	0	Bbl/d
		Final open flo									Bbl/d
		Time of	open flow be	tween ini	ti	al and	d fir	nal tests	4 h	ours	
	Stati	c rock pressure	e 1750 p	sig(surfa	ce	meas	ureme	ent) after	r 48 hc	urs s	hut in
	(If a	mplicable due	to multiple	completio	n-	-)					
	Secor	nd producing fo	rmation				Pay	zone dep	th		feet
	Gas:										_Bb1/d
		Final open fl									_Bbl/d
		Time of	open flow be	tween ini	iti	al an	d fi	nal tests	ŀ	ours	,
	Stat	ic rock pressur	reps	ig(surfac	æ	measu	reme	nt) after	h		hut in
								(Conti	rese on r	181	

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

PERFORATING Superior Wireline 11-6-86

Benson 4937-4943' 14 holes Avg. pressure 3400# Avg. Rate 15 BPM Riley 4398-4564' 16 holes Avg. pressure 4050# Avg. Rate 19.5 BPM

FRACTURING Halliburton Services 12-26-86

1st. Stage: 20,000 # 20/40 Sand 2nd. Stage: 20,000 # 20/40 Sand

WELL LOG

SHA SHOWN

Property and American

Sec. 18.

								REMARKS	4
FORMATION	COLOR	HARD	OR SOFT	TOP 1	Heich	BOTTOM FEET	Including and salt w	indication	of all fres , oil and ga
Shale Gordon Shale 5th. San Shale Riley Shale Benson Shale T.D.	d			244 274 274 293 293 453 457 494	2' 8' 0' 8' 3' 1'	2742' 2748' 2930' 2938' 4533' 4571' 4944' 4949' 5025' 5025'		FEB 13 DIVISION OF OF PARTMENT C	198/ 198/ 1L& GAS

(Attach separate sheets as necessary)

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 coul, encountered in the drilling of a well."



BECERVED

MOV 15 1982 OIL AND GAS DIVISION WYDEFARTMENT OF MINES

Rotary X Oil_

STATE OF WEST VIRGINIA DEPARTMENT OF MINES

Oil and Gas Division
WELL RECORD

Quadrangle West Permit No. 47-0	Union 95-0851					Cable Recycling Water Flood Disposal	Comb. x Storage
Company L&M Pe	etroleu	m Co.		Casing and	Used in	Left ·	Cement fill up
Address P.O. Box	k 89. Re	eno. OH 457	773	Tubing	Drilling	in Well	Cu. ft. (Sks.)
Farm Griffin/			res_160				
Location (waters) _	Shor	rt Run	1010	Size			
Well No.		Ele	1010	20-16			
District Centervil		•		Cond.			
The surface of tract O.W. Grif	is owned	in fee by		13-10"	ļ		
				9 5/8			
Address Box 302	25 Parke	ersburg, WV	26101	8 5/8	300'	5061	125 Af
Mineral rights are ov	wned by_	See attach	ned	7			
Addre	ss	20.400		5 1/2		ļ <u>.</u>	
Drilling Commenced.		29 / 80		4 1/2	2464.35	2 464.35	100 ex
Drilling Completed_				3			
Initial open flow Final production	100	cu. ft	bbls.	2			
				Liners Used			
Well open	<u>6</u> h	rs. before test_	RP.		1		
Well treatment detai				Attach copy of			
Frac well	l on 11,	/9/82 using	25,500# sand	i, 31,300 gal	. fluid;BD:	1900; AT	TP:2500;
RATE: 26	BPM; IS	SI:1650; 5 M	fin: 1600				
PERFS:	<u> 2258-66</u>	•9_shots;22	74-78:5 shots	s:2332-42:11	shots:2350-	58:9 sho	ts .
	<u> 2444-47</u>	: 4 shots		•			
Coal was encountere	d at		Feet.		Inche	s	
Fresh water		Fe	et	Salt	Water		_ Feet
Producing Sand	We	eir &\Berea		Dept	h2258'-24	47'	
	<u> 2258-</u>	2358 \ 24	प्य- २५५३	Dept			
		lard or Soft	Top Feet	Bottom Feet	Oil, Gas or		Remarks
Clay							(=)
Red Rock			0 4	52	T.	D. 240	(5 (?)
Lime			52	81			
Sand Rock			81	101			
Lime			101	135			
Lime			135	151			
Red Rock			151	190			
Slate			190	211			
Red Rock & Si Red Rock	nale		211	307			
Sand	•		307	398			
Pink Rock			403 423	423			
Slate			468	468			
Sand			503	544			
Lime & Slate			544	567			
Red Rock			567	633			
Lime			633	661			
Slate			661	713		•	
Pink Rock			713	722			
Lime			722	743			
Slate Sand			743	817	}		
Slate			817 878	878		•	
Clara			000	900	1		

⁽over)

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks
Sand Slate Slate Sand Slate Sand Slate Sand Slate Sand Slate Sand Slate Sand Slate		·	1011 1033 1065 1109 1035 1072 1103 1135 1161 1213 1232 1270 1293 1313	1033 1065 1109 1035 1072 1103 1135 1161 1213 1232 1270 1293 1313 1340		
Slate Sand		,	1340 1389	1389 1400		
			SEE ATTA	CHED SHEETS		
	•				·	
			·			
				•		
	-		·			

all the alle

SAMPLE DESCRIPTION O.W. GRIFFIN / Taggart #2 47-095-0851

1400-10	SHALE - med gy & dk gy, silty, with sandstone-cream, Fn gr sub rdd/wl rdd, fairly srtd, NO FL
1410-30	SANDSTONE - a/ab, NO FL shaley
1430-60	SANDSTONE - a/ab, POOR YELLOW-GREEN FL
1460-1500	SANDSTONE a/ab, NO FL
1500-1510	SANDSTONE, white, fn. gr., fairly srtd., slightly mica., ferric stains tr. pyrite, POOR Y.G. FL
1510-50	SANDSTONE a/ab, NO FL
1550-90	SHALE, dk gy + med. gy., silty, interbedded with sandstone a/ab.
1590-1610	SANDSTONE, Lt. gy., fn. grain, v.poorly srtd., calc., NO FL
1610-90	SHALE, med. & dk. gy., interbedded with sandstone, NO FL
1690-1710	SHALE, black, V. carbon, tr. coal
1/10-30	SHALE - red, interbedded with sandstone- lt gy, fn gr/v rn gr, p. srtd, NO FL
1730-90	SANDSTONE - tan, v. fn. gr./fn. gr. arg, p. srtd, NO FL
1790-1800	SHALE - med & dk gy, carbon in pt, sandy
1950-80	LIMESTONE - It brn & cream, micxl, dense, FAIR Y-G OIL FL
1980-90	SANDSTONE - white, fn gr, calc, V GOOD YELLOW-GREEN FL
1990-2000	SHALE - red, med gy, w/ss-a/ab
2000-20	SANDSTONE - white, fn gr, ang/sub ang., fairly srtd, clean, POOR FL
2020-30	SS- a/ab w/ shale - red POOR/FAIR Y-G FL
2030-80	SS - a/ab POOR FL
2080-90	SANDSTONE - cream, fn gr/v fn gr, sl calc, GOOD YELLOW-GREEN FL
2090-2100	SHALE - med gy, w/ss-a/ab
2250-2300	SANDSTONE - It gy, v fn gr, ang, wl srtd, calc in pt, FAIR YELLOW-GREEN FL

OVER >>

SAMPLE DESCRIPTION - O.W. GRIFFIN # 2

2300-10

SS-a/ab, NO FL, shaley

2310-40

SS-cream, lt gy, v. fn. gr, sl srg, NO FL

2340-60

SS - a/ab POOR FL

2360-2420

SHALE - med gy, silty

2420

END OF SAMPLES

TD. 2465(?)

CEMENTING REPORT

DATE:

WELL: O.W. Griffin #2

47-095-0851 PERMIT:

COUNTY AND STATE: Tyler Co.,

DATE SPUDDED: 12-29-80

TD: 2484

SAND: Weir 2256-2370

74 Joints of 9½#/ft, 2464.35 CASING:

FLOAT EQUIPMENT:

Cement show with latch-down insert .

3 centralizers 1,5,10 Cement basket @ 2237

CEMENT JOB:

400 lbs gel ahead of 100 sks 50/50 pozmix w/3% cacl₂

150 sks RFC ω / 10 lbs kolite per sk

PLUG DISPLACEMENT:

a) Fluid: Fresh Water

b) Pressure: 1500 psig

Circulation (cement to surface):

REMARKS:

DIVISION OF GAS INTEREST O.W. GRIFFIN/TAGGART #2

1.7076% LO	Roy Meredith RT #223 233 Washington, WV 26181
2.2880% LO	Ralph Washburn 707 Caroline Ave. Williamstown, WV 26147
.3348% LO	Caroline Hill
	address unknown
.3348% LO	Mary J. Gregg
	address unknown
.3348% LO	Zilpha Doak
	address unknown
.3125% LO	Mabel L. Wagner, Power of Attorney for Vonda Wagner 206 Stuart St. West Union, WV 26456
.1042% LO	Mabel L. Wagner, Power of Attorney for Lavina O'Shea 206 Stuart St. West Union, WV 26456
.2083% LO	Mabel L. Wagner, Power of Attorney for Betty Ash Winn 206 Stuart St. West Union, WV 26456
.3125% LO	Mabel L. Wagner, Power of Attorney for Carrie E. Knight 206 Stuart St. West Union, WV 26456
.1042% LO	Charlotte Ash 205 Westwood Drive Beckley, WV 25801
.2083% LO	Robert Ash P O Box 1107 Banner Elk, North Carolina 28604
4.6875% LO	Edith A. Griffin 2604 - 26th Ave. Box 3025 Parkersburg, WV 26101

O.W. GRIFFIN/TAGGART #2

1.5625% LO

Ora W. Griffin 2604 - 26th Ave. Box 3025 Parkersburg, WV 26101



1) Date: 8-20-8	36	, 13.		
2) Operator's Grandell No.	iffin	#1		
3) API Well No		095	851 - D	
St	ate	County	Permit	

AU AU	G 271	985 (- 10 - A	,	STA	TE OF WEST V	IRGINIA		
	551 OF O	n 5,050	, DEP.	ARTM	ENT O	F ENERGY, OI	IRGINIA L AND GAS DIV <mark>LL WORK PERMI</mark> I	ISION	
DIVISIO	MENT O	F ENEN	a í	AP	PLICAT	TION FOR A WE	LL WORK PERMIT	<u>r</u>	
4) WELL TY	PE: A O	il	/ Gas	;X	/				v
								/ Deep	_/ Shallow X/)
5) LOCATIO		vation:		rvil	1e /	_ Watershed: _ _ County: <u> </u>	102	Wo	st Union 670
6) WELLOP	DIS FRATOR	Anna	lachia	an B	enoCOD	E: 2325	7) DESIGNATE	DAGENT Georg	e Williams
Addres	s PO	Box	205ner	44 DE	velepn	neut Due.	Address	PO Box 902	
	<u>_Be</u> .	Lingto	on W	l		0397		Belington	WV
8) OIL & GA			BE NOTIF	IED			9) DRILLING C		
	Bob Lo	wther enera	1 Dol-	izon		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Name Address		
Addres		iddle					Addiess		
10) PROPOS			Drill			deeper X	/ Redrill	/ Stimulate	(
IU) PROFOS	CD WLLL	WORK.				/ Perfo	orate new formation	n/	•
			Other pl	nysical	change is	n well (specify)			
11) GEOLOG						435 fee			
12) Estim	ated depth	of complete	ed well,		nson 000'		it	feet	
13) Appr	oximate tra oximate coa	ta depths:	Fresn,						/ NoX/
14) Appr 15) CASING				<u> </u>					
CASING OR	1		IFICATIONS	;	ŀ	FOOTAGE	E INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor									Kinds
Fresh water								1000	
Coal	8 5/	8		_x			295	125 SKS	Sizes
Intermediate	4 1/	2					2467	100 5KS	Depths say rule 15.1
Production	2 7/	8					4975	as require	Openingsof July 10.1
Tubing	-								Perforations:
Linc. 3	1								Top Bottom
									•
						OFFICE LIST	ONLV		
						OFFICE USE			
						DRIEDING		0	eptember 2 19 86
Permit number		47 - 095-	-0851 - 1)		-		Da	- F
ment to the				I locati	on chow	n helow is evidenc	e of permission gra		nce with the pertinent legal re-
quirements sub	ject to the	conditions	contained	herein a	and on the	he reverse hereof	lotification must be	given to the District Oil	and Gas Inspector, (Refer to stractor shall notify the proper
io. 8) Prior to	the construc	ction of ros	ads, locations before a	ons and	pits for	any permitted wor work has commen	k. In addition, the	well operator or his cor	itractor shall notify the proper
								t to any modifications a	and conditions specified on the
The permitted reverse hereof.						on, piat, and recia	mation plan, subjec	t to any mounications t	ma conditions specified on me
Permit expires		Septeml	per 2,	1988	3	unless w	ell work is commend	ed prior to that date and	prosecuted with due diligence.
					/_		···/		•
Bond:	Agenj	t: 1	Plat:	Casi	ing	Fee WPC	P S&E	Other	
-	1	e /	*	H	5 3	105- K	< 1 A<		
L	- /-/	1/	<u>"</u>	14		41		100 1	
						· >	The &	Sknoton	<u></u>
NOTE: Keep	one copy o	of this perr	nit posted	at the o	irilling lo	ocation.	Director, M	ivision of Qil	and Gas
							PY for instructions	11 / ////	garet . Hass
		566	tne rever	e side (or the W	I LICANI & 50	IVI INSTIUCTIONS	T operatory	1

1)	Date: April	. 1		,	19 85
2)	Operator's Well NoG	riffin	#2		
	API Well No.	47	- 095	_	851 (Fra C
3)	ALL WOLLTON	State	County		Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYPI	E: A Oil	X	/ Gas	<u> </u>				_/ Deep	/ Shallow X	<u></u> /)
			roduction			_/ Underground si _ Watershed:	Chart Run			
5) LOCATION		ation:		33-		The state of the s	ler	Quadrangle: W	est Union (7	1.51) 670
	Dist	rict:	ntervi	TIE		_ County:	TO DESIGNATED	AGENT Georg	re Williams	
6) WELL OPE	RATOR 🚣	ppalac	nian E	nerg	y Dev	e Tobuento (/) DESIGNATED	P. O. Box 90	12	
Address		0. Box				2325	Address '	Belington,	JV 26250	
	Bel	ingtor	, WV	2625	<u> </u>				LULJU	
8) OIL & GAS	INSPECT	OR TO E	E NOTIF	IED			9) DRILLING CO	NTRACTOR:	Correi oo	
Name Robert Lowther Name 171 State Well Service										
- "	Address General Delivery Address P. U. Box 299									
/ Idai Cos			irne,			26149		Bridgeport		<u> </u>
	PROPOSED WELL WORK: Drill / Drill deeper/ Redrill/ Stimulate_X/									
10) PROPOSEI	Plug off old formation/ Perforate new formation/									
						n well (specify)			<u> </u>	<u> </u>
			Otner pi	iysicai Ro	range n	395				<u> </u>
11) GEOLOGI	CAL TAR	GET FOR	MATION,	24	75 I	feet			무용	CO
12) Estima	ted depth o	of complet	ed well, _		3 255		cased off	feet.	<u>. 0</u>	
12) Approx	vimate trat	a denths:	Fresh.	Case	TOTT		oal being mined in the			
14) Approx	ximate coa	l seam dep	ths: C	aseq	OII	Is co	ai being mineu in the	alta: Its	76	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
15) CASING A	ND TUBI	NG PRO	GRAM						il PAGKĒŘS	<u> </u>
CASING OR	H		IFICATIONS	3		FOOTAGE	INTERVALS	CEMENT FILL-UP OR SACKS	THERS	7
TUBING TYPE	6:	Grade	Weight per ft.	New	Used	For drilling	Left in well	(Cubic feet)	<u> </u>	
	8 5/8		per Air		1	300	300	125 sks.	Kinds -	
Conductor	0)/0	 	-		-					<u>→</u> "
Fresh water	 		+		 				Sizes	<u> </u>
Coal	 	 		 	 					
Intermediate	1	L	 		 	2475	2475'	100 sks.	Depths set	0
Production	4 1/2		ļ	<u> </u>	 		2310'	1	-3	で で う
Tubing	1 1/2	***	ļ		-	2310'	2510		Perforations: 07	<u> </u>
Liners				 	-			1	B1/21 (2)	Bottom
						<u> </u>			100	50.
					<u> </u>			#	1 13	{: -:
								1		Western Lie
	Ш			•						
						OFFICE USE	ONLY			
						DRILLING P				
						Dittibution				¹⁹ 85—
Permit number	47-0	95-851	-F			_			June 28	85 -
								_		ant local no
This permit cov	ering the	well opera	tor and w	ell loca	ion show	vn below is evidenc	e of permission gran	ted to drill in accorda	ince with the pertin	ent legal re-
quirements sub	ject to the	conditions	contained	l herein	and on	the reverse hereof.	Notification must be	e given to the District	ontractor shall notif	y the proper
	494		monds loc	ofinne (and bils i	or any permitted w	UIR,III addition,	well operator or his co		
district oil and	MAC INCHEC	10° 74 001	irs belole	actua: i	JCI IIII LLCC	WOLK HAD COMME				
The permitted	work is as	described	in the Not	ic e and	Applica	tion, plat, and recla	mation plan, subject	to any modifications	and conditions spec	
reverse hereof.								ed prior to that date an		
Permit expires	June	28, 1	1901			unless w	en work is commence	tu prior to that auto us	- p	
D 4.	Ac	ent.	Plat:	Ca	sing	Fee				
Bond:	o o o	ent:	-	1		(33)			- 1	j
1228	AI	W 1	NU	rr	111	الل	IVI	resout	. 7 Lh	2112
		r 				_		vigures		
							/Ad	ministrator, Office of	Oil and Gas	
NOTE: Keep	one copy	of this pe	rmit poste	d at the	drilling	location.		(/		File
MOIL. Reep							NRV 6 1 441	to the well energies		
		S	ee the reve	erse side	e of the .	APPLICANT'S CO	PY for instructions	to the well operator.		

DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

mo mur penantherm of Mines	
TO THE DEPARTMENT OF MINES, Charleston, W. Va.	September 8, 1980
Edith H. Griffin	DATE
Surface Owner	Company L&M Petroleum Co.
Address Centerville, WV	Address Rt. #1, Marietta, OH 45750
Mineral Owner O.W. Griffin	Farm O.W. Griffin Acres 220
Address 2604 26th Ave, P'burg, WV	Location (waters) short run
Coal Owner same as above	21(180011
Address	District Centerville County Tyler
Coal Operator None	Quadrangle West Union
Address	
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter 22,	
of the vv. va. Code, the location is berefy approved	SPECTOR RE NOTIFIED Phil Tracy
for drilling . This permit shall expire if	BE NOTIFIED PHIL Tracy
operations have not commenced by 5-9-81 AD	DRESS Middlebourne, WV
	ONE758-4573
Deputy Director - Oil & Gas Division GENTLEMEN:	
title thereto, (or as the case may be) under grant or lease da	above named farm or tract of land for oil and gas, having fee
R.W. Keener	and recorded on the day of
19 inTyler County, Book 196	and recorded on the day of
57	-
NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or file	otified that any objection they wish to make, or are required ed with the Department of Mines within ten (10) days.
Copies of this notice and the enclosed plat were mailed by r or coal owners at their above shown respective address	egistered mail, or delivered to the above named coal operators
same day with the mailing or delivery of this copy to the Depa	ertment of Mines at Charleston, West Virginia.
v	Yery truly yours / L&M Petroleum Co.
PLEASE SUBMIT COPIES OF ALL	Sign Name Asst. Sec
dedinisical loss birecter to:	Well Operator
WEST VIRGINIA GEOLOGICAL AND	Rt. #1, Box 18-B
ECONOMIC SURVEY Address P O ROY 879 of	Street
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505 Well Operat	Marietta ———————————————————————————————————
AC-304 - 292-6331	City or Town Ohio 45750
	State
the filing of such plat, that no objections have been made by the coal ope	partment of mines, within said period of ten days from the receipt of ne department shall forthwith issue to the well operator a permit reciting rators or found thereto by the department and that the same is approved
and the well operator authorized to proceed.	47-095-0851
"I have read and understand the reclamation requirements as set for	

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

PROPOSED WORK ORDER TO	O DRILL	DEEPEN FRACTURE-STIMULATE						
DRILLING CONTRACTOR: (I	f Known)	RESPONSIBLE AGENT:						
NAME		ADDRESS Parkersburg, WV 26101						
ADDRESS								
TELEPHONE		TELEPHONE 304-422-7208						
ESTIMATED DEPTH OF COMP		ROTARY X	_ CABLE TOOLS					
PROPOSED GEOLOGICAL FOR	RMATION: Devonian S	hale						
TYPE OF WELL: OIL	GAS	COMB. X STORAG	GE DISPOSAL					
			LOOD OTHER					
TENTATIVE CASING PROGRA								
CASING AND TUBING SIZE	USED I OR	LUFT IN	-CEMENT FILL UP					
	DRILLING	WELL	OR SACKS - CUBIC 17.					
20 - 16. 13 - 10								
9 - 5/8								
8 - 5/8	250		125 cv /					
7	250		125 sx (To Surfac					
5 1/2								
4 ½	TD	TD	400 sx					
3								
2			Perf. Top Perf. Bottom					
Liners			Perf. Top					
			Perf. Bottom					
SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT FO FRACTURE STIMULATE: OIL AND/OR GAS WELL OBOND, PERMANENT PLAT OIL AND/OR GAS WELL OIL AND/OR GAS W	LL: OF OG - 1, SHOWING ORIGINALLY DRILLED BEFORMANELLY DRILLED ON A DESIGNALLY DRILLED ON A DESIGNAL WELL RESERTAND PERFORMANCE	SINAL PERMIT NUMBER A COPY OF THE PLAT AND ORE JUNE 5, 1929, FIVE (5 CORD. IND/OR AFTER JUNE 5, 19 E BOND.	BOND AND PERMANENT COPY AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG - 1, PERFORMANCE 229, FIVE COPIES OG - 1, SHOW- Inspector to be notified twenty					
()								
-			a					
			e issued within ten days of receipt					
WAINER: I the undersigned, Age this lease have examin	ent forned and place on our mine m	Coal Company, Own	er or Operator of the coal under					
			well being drilled at this location,					
providing operator has Code.	complied with all rules and reg	nave no objections to said sulations in Articles 4, 5, and	well being drilled at this location, 17, Chapter 22 of the West Virginia					
			For Coal Company					
			Orficial Title					

	,		e e			٠.				•		•	
	SE	RVICE	SEPOPT						REATMENT NU	MBER .	'	DATE	
۾ '		•			. Do	WELL	>	•	STAGE DO	455	.5		20-80
PAI	NTED IN U.S.	A.		DOV	ELL DIVISION OF	DOW C	HEMICAL	U.S.A.	STAGE D	OWELL DIST	RICT		
NAME AND	Tagga	r+/	LOCATIO	N-POOL-FIELD						GLEN	VILLE	w.v	•
10.W. 1	2050	1 L L / B	7 54	015	0 	RIG	. NAME:	LIN	FHURT	2 5			
FORMATION			DOWELL	O L T	/E .					ELL DATA-	215 67		
		•				HO	E SIZE	5/ =	CASING OR LINER		~ ; ->		
COUNTY	· · · · · · · · · · · · · · · · · · ·		STATE	CHAP	MAN	DEF		/		<u> </u>	8	С	0
TYLE	p	. * + <u>*</u>	\\ \(\mu\).	٠	•	1		CABLE	SIZE-WEIGHT	8 3/1"	20 =		
						BHS		CABLE	,TOP		10'600	D. N. P.	٠
NAME LY	m PE	TROLE	TUM	1.73	· · ·	BHL			BOTTOM	295'			
						Вно			GRADE & THREAD	ERD.			
AND							D: TYPE		CAPACITY	18.58			
ADDRESS						بهسط!					WT.	VI	SC.
				710.000	-	FLOAT	TYPE			ğ	TYPE		
SPECIAL INSTR	UCTIONS			ZIP COD			DEPTH				DEPTH		
		54.11	_			š	TYPE	-		STAGE	TYPE		
ceme	WT 8	/ 1	ASING				DEPTH			7 "	DEPTH		
						— 	<u> </u>	□ D P.	HEAD & PLUGS		SQUE	EZE JOB	
			· · · · · · · · · · · · · · · · · · ·			sızl	\		DOUBLE	DEP			
• •					·	WEI			SINGLE	P DEP	TH		
						GRA			SWAGE	TAIL PIPE		IN.	
							EAD		KNOCKOFF	PERF INTE	RVAL		
PRESSURE LIMIT								USED		<u> </u>		10	
ROTATE		RPM R	PSI BUMP PI		- PSI	MIN DEP		$-\!$	BOT BE W			то	
U HOTATE		nPM U n	ECIPROCATE -				ACITY		OTHER			то	
TIME TBG.	SURE	VOLUME	JOB SCHEDULED FOR: TIME: مرمري م DATE. 12 - \$ 0 - \$ 0		ARR	IVED ON LO		TE: /2-30-40	LEFT LOCA		0.77		
		CASING.	PUMPED	INJECT.							7 7 0	DATE /2	- 33-60
	OR D.P.			RATE					RVICE LOG DETAI				
0110	<u> </u>				ARRIVE OF	Loc		7 m	ITS HAL	a 546	~ ~ ~ ~		
					HOOK UP	4 0		0 .	الماني المنتم الماني	* , , ,	-		
0540					Huuk up 7			4	FUFINIS	7 7701	e e P	, Let	م
0545			20 881	3	l .								
			20 0 7 1	3000					IN Dan		P195	· . P.	0 c-
	<u> </u>		75 "	,	Duna, P.	, 4 6	YAINE	<u> </u>	ICE Da.	<u> </u>			
0552	 		~ 0	42300		2 : 2	FFAL	CEA	reut.				
0558	 		1725	32 300	Pung 17	111	405	لأشرع	Displace	ریم میں ع	v 7		
0603					DIFFLACE	m ca	7/4	<u>,</u>	51145 0		5114	TIN	Sware
	<u> </u>				TIEFO	EE L	14 5 5	10	ig Dan				
0730					Liker L				J				
									· · · · · · · · · · · · · · · · · · ·				
	1												
	T												
				 		·				·			
<u></u>	†		-	 									
				ļ									
	 												
-													
												·	
													
REMARKS													
					· · · · · · · · · · · · · · · · · · ·	-						•	
SYSTEM	NO OF SACKS	YIELD CU. FT/SK	T		6011806								
CODE					COMPOSITION							ALST FIRM MIN	ED AT
2.	125	1018	CLASSAC	CASAT "	1.70 Care	-	Y. O FL	ME	BLEWED !	Piesk	. 26	3801	15.4
3.		 	 										
		<u> </u>	<u> </u>										
HESITATION			WT	SACKS MIXED	125			٠,٢	PRESSURE MA	X. 50	2752	- MIN _	
BREAKDOWN		FINAL	RUNNING SO	CIRCULATION		YES)	CEMENT CIRCULA	TED TO SUF			S NO
WASHED THRU	YES	NO TO	PSI D FT	4546:155					CEMENT LEFT IN		• • • • • •		15 FT.
TYPE OU	====	OBAGE		MEASURED	DOSPLACEMEN	T	☐ WIR	ELINE	HAS PLANNED	UN	AVOIDABLE		