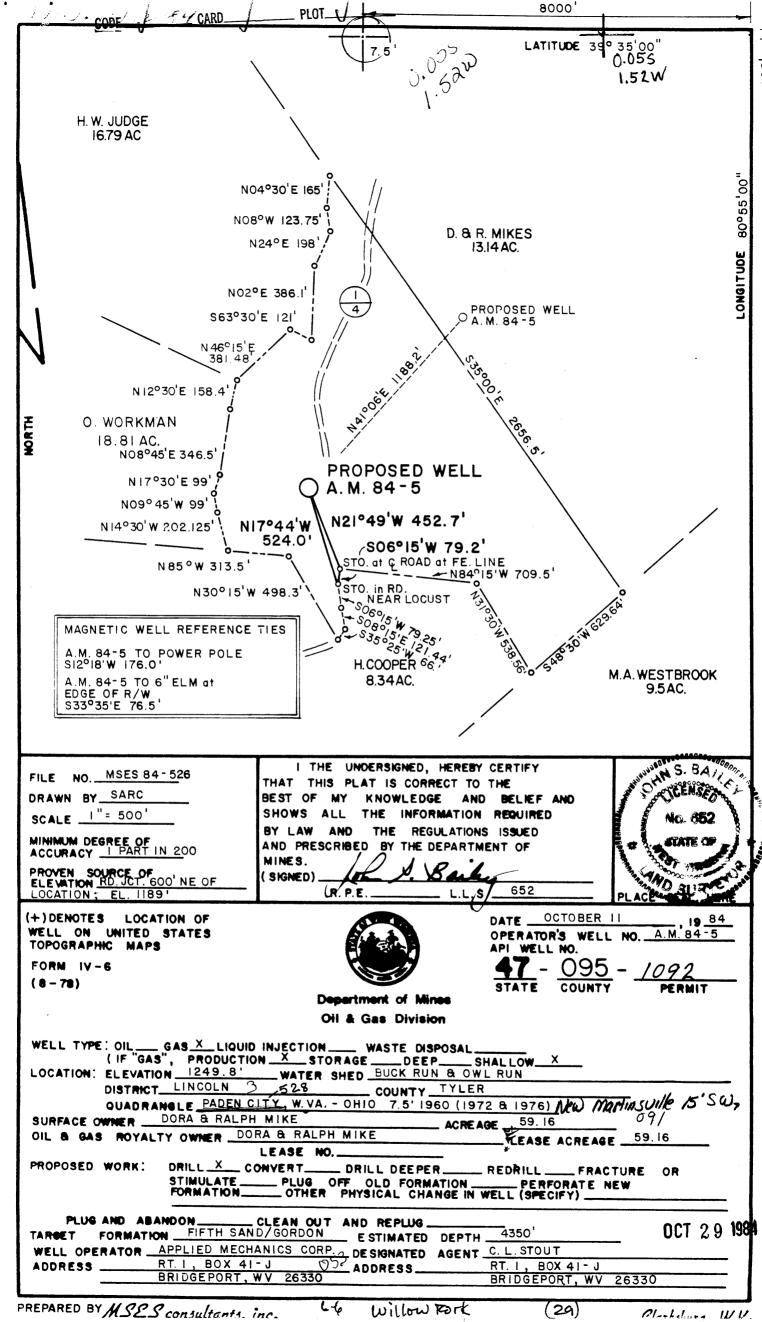


PREPARED BY MSS Scansultants inc DWWD 6-0 willow Fork (29) Clarksburg. WV



IV-35 (Rev 8-81)



DIVISION OF OIL & GAS DEPARTMENT OF ENERGY



State of Mest Airginia

Bepartment of Mines Gil und Gas Division

Date August 23. 1985 Operator's								
Well No								
Farm	Mi	kes						
APT NO JIP	_	001	_	1002	T.			

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

	Elevation: 1249	Matershod	Bı	vd Storagg	Owl Run			
r	District: Lincoln	County	T	yler (Quadrangle	Paden (City 7.	5
	ied Mechanics Corpo							
	1, Box 41-J; Bridge		30 T		<u> </u>		Cement	
	AGENT Charles L. S		1	Casing	Used in		fill u	φ
			L		Drilling	in Well	Cu. 1	t.
	same as abov			Size ¹¹ 3	40	0		
ADDRESS	naiph & pora	1 MIKES	- }	Cond.			-	
	HTS OMIER Ralph &	Dora Mikes		WAS STATES				
		2010 IIIIOO		9 5/8				
ADDRESS	INSPECTOR FOR THE	S MOTE		8 5/8	1440	1440	355 sa	.ck
				7				
	her ALDRESS Middlebo Cctober		ا مر	5 1/2		·		
			5	4 1/2	3144	3144	295 sa	ιck
DRILLING CO	MPLETED October	19, 1904		3				
CONTINUOUS	RLE: PLUGGING OF D PROGRESSION FROM D	RILLING OR		2 Liners				
CN	VERBAL PERMISSION	OBLYTHED		used				
GEOLOGICAL.	TARGET FORMATION	Gordon			Dep	th 3012-	3047	fe
Depth	of completed well		t R	otary x				
	strata depth: Fre	100-170 ≥sh <u>187&210</u> feet	t;	Salt 0	feet			
Water		0		Is coal	being mir	ed in the	e area?	No
Water	seam depths:							
Water								
Water Coal s	DATA			Pay	v zone ća	oth 3012-	30 <i>47</i>	fe
Water Coal s OPEN FLOW I Produc	DATA cing formation_	Cordon			y zone cy itial cer			
Water Coal s OPEN FLOW I Produc	DATA cing formation Initial open flow	Cordon show Mcf/c	đ	Oil: In	itial c _. er	flow	0 E	bl
Water Coal s OPEN FLOW I Produc	DATA cing formation Initial open flow Final open flow	Cordon show Mcf/c	d d	Oil: In	itial c _e er nal open i	flow	0 E	bl
Water Coal s OPEN FLOW I Produc Cas:	DATA cing formation Initial open flow Final open flow	Gordon show Mcf/c 309 Mcf/c flow between in	d d niti	Oil: In Fi	itial c _l er nal open f inal tests	flow flowh	0 Fours	bl bl
Water Coal s OPEN FLOW I Produc Cas:	DATA cing formation Initial open flow Final open flow Time of open	Gordon show Mcf/d 309 Mcf/d flow between in	d d niti	Oil: In Finial and fine measure	itial c _l er nal open f inal tests	flow flowh	0 Fours	bl bl
Water Coal s OPEN FLOW I Product Cas: Static	Cing formation Initial open flow Final open flow Time of open c rock pressure	Gordon show Mcf/c 309 Mcf/c flow between in 1210 psig(sur multiple complet	d d niti	Oil: In: Finial and fine measure	itial c _l er nal open f inal tests	flow	0 F ours ours shu	ibl ibl
Water Coal s OPEN FLOW I Product Cas: Static (If a Secon	Cing formation Initial open flow Final open flow Time of open c rock pressure applicable due to me ad producing format Initial open flow	Gordon show Mcf/o 309 Mcf/o flow between in 1210 psig(sur multiple complet cion Big Inju	d d niti	Oil: In: Final and for measure Pa Oil: In:	itial cernal open in in tests arent) after a zone dential open itial open iti	flow_flow_s_5 her 48 hopth 2030-n flow	0 Fours ours shu	abl abl
Water Coal s OPEN FLOW I Product Cas: Static (If a Secon	DATA cing formation Initial open flow Final open flow Time of open c rock pressure applicable due to many and producing format	Gordon show Mcf/o 309 Mcf/o flow between in 1210 psig(sur multiple complet cion Big Inju	d d niti	Oil: In: Final and for measure Pa Oil: In:	itial cernal open in in tests arent) after a zone dential open itial open iti	flow_flow_s_5 her 48 hopth 2030-n flow	0 Fours ours shu	abl abl

(REVERSE)

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

Perforated---3018-3020---3 holes 3030-3038---9 holes

Fractured----752 bbls H₂0 500 gallons acid 40,000# 20-40 sand 121,000 S.C.F. N₂ Restimulate on 6/7/85:

Perforated 2030-2040---10 holes--3/8"
Acidized with 250 gal 15% HCl

WELL LOG

FORMATION	COLOR HARD	OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fra and salt water, coal, oil and o
Topsoil					
Sand & clay	red	soft	0	60	Fresh water: 158'
Sand	gray	soft	60	104	170'
Shale	red & gray	\mathtt{soft}	104	637	187'
Lime	lt. brown	hard	637	645	210'
Shale lime	dk. gray	soft	645	1154	
Sand	white	hard	1154	1208	
Sand shale	gra y	gray	1208	1378	
Sand	white	hard	1378	1610	
Sand shale	lt. gray	\mathtt{soft}	1610	1882	Electric log 1882 to T.D.
Sand	white	hard	1882	1940	
(Maxton)					
Shale	gray	\mathtt{soft}	1940	1966	
Lime	dk. gray	hard	1966	2022	
(Big Injun)				
Sand	lt. gray	m. hard	2022	2185	
) German Paris				·
Sand shale		\mathtt{soft}	2185	2432	
Sand	dk. gray	\mathtt{soft}	2432	2526	
(Weir)					
Shale sand	gray	${ t soft}$	2526	3014	
Sand	gray	m. hard	3014	3059	
(Gordon)					
Shale	gray	Soft	3 059	3200	T.D.
•				I	
				1	
				}	1

(Attach separate sheets as necessary)

Applied Mechanics Corporation
Well Operator

Date: August 23 1985

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 weal, encountered in the drilling of well."



IV-35 (Kev 8-81)

State of Mest Wirginia

Bepartment of Mines
Gil and Gas Division

Date_	November 4, 1984							
Operator's								
Well	No. AM 84-5							
Farm	Ralph & Dora Mikes							
א דרוא	In the							

WELL OPERATOR'S REPORT

OF'

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas x / Liquid Injection (If "Gas," Production / Undergro	n_/Wasi	e Disposa je/ Deej	l/ p/ Sha	ıllow <u>X</u> /)
LOCATION: Elevation: 1249 Watershed	Buck Run &	: Owl Run		
District: Lincoln County	Tyler	Quadrangle	₂ Paden	City 7.5
		_		
COMPANY Applied Mechanics Corporation 0053				
ADDRESS Rt. 1, Box 41-J; Bridgeport, W.Va. 26330		1		Cement
DESIGNATED AGENT Charles L. Stout	Cashid	Used in	Left	fill up
ADDRESS same as above	Tubing	Drilling	in Well	Cu. ft.
SURFACE CHIER Ralph & Dora Mikes	Size ¹¹ 2000 Cond.	40	0	
ADDRESS				
MINERAL RIGHTS OWNER Ralph & Dora Mikes	9 5/8			
ADDRESS	8 5/8	1440	1440	355 sacks
CIL AND GAS INSPECTOR FOR THIS WORK	7)
Robert Lowther ALDRESS Middlebourne, W.Va.	5 1/2			
PERMIT ISSUED October 11, 1984	4 1/2	3144	3144	295 sacks
DRILLING COMMENCED October 15, 1984	3			
DRILLING COMPLETED October 18, 1984	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
GEOLOGICAL TARGET FORMATION Gordon		Dept	th anna a	3047 fee t
Depth of completed well 3198 feet		/ Cable	Tools	2000
Water strata depth: Fresh 187&210 feet;	Salt 0	feet	-	
Coal seam depths: 0				area? No
OPEN FLOW DATA	•	y		
Producing formation Gordon	Par	zone dent	-h 2010 1	nolum foot
Cas: Initial open flow show Mcf/d	Oil· Tni	tial open	$f_1 \stackrel{5012-5}{\leftarrow} 0$	Db1 /3
Final open flow 309 Mcf/d	(Fir	al open f		pb1/a
Time of open flow between init	ial and fi	nal tests	5 ho	
· Static rock pressure 1210 psig(surfac				
(If applicable due to multiple completion				as sinc m
Second producing formation		zone dept	th	feet
Gas: Initial open flow Mcf/d	Oil: Ini	itial open	flow	Bb1 /d
Final open flow Mcf/d	Oil: Fir	nal open f	low	Bb1 /6
Time of open flow between init				
Static rock pressurepsig(surface				

(REVERSE)

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

Perforated -- 3018-3020---3 holes 3030-3038---9 holes

Fractured----752 bbls H₂0 500 gallons acid 40,000# 20-40 sand 121,000 S.C.F. N₂

WELL LOG

FORMATION	COLOR HARD	OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all and salt water, coal, oil and
					and saire water, coar, orr any
Topsoil	<u>:</u>				
Sand & clay		soft	0	60	Fresh water: 158'
Sand Shale	gray	soft	60	104	170'
	red & gray	soft	104	637	187'
Lime	lt. brown	hard	637	645	210'
Shale lime Sand		soft	645	1154	
	white	hard	1154	1208	
Sand shale Sand		gray	1208	1378	
	white	hard	1378	1610	
Sand shale		soft	1610	1882	Electric log 1882 to T.D.
Sand (Maxton)	white	hard	1882	1940	
Shale	gray	soft	1940	1966	
Lime	dk. gray	hard	1966	2022	
(Big Injun)				2022	
Sand	lt. gray	m. hard	2022	2185	
(Big Injun)			1	210)	
Sand shale	gray	soft	2185	2432	
Sand	dk. gray	soft	2432	2526	
(Weir)	•		~ 1)~	2)20	
Shale sand	gray	soft	2526	3014	
Sand -	gray	m. hard	3014	3059	
(Gordon)	•	•	J	7077	
Shale	gray	${\tt Soft}$	3059	(3200)	T.D.
				į	
				1	
			; · · · · · · · · · · · · · · · · · · ·	1	

(Attach separate sheets as necessary)

Applied Mechanics Corporation

Well Operator

By: Charles J. Jour

Date: November 4, 1984

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





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

OIL & GAS DIVISION

Е	DEPT.	DE N	MINE	-5	AI	PPLICA	TION FOR A WELL	WORK PERMI	<u>r</u>	
	WELL TYP	E: A O	il	/ Ga			/ Underground st	OTage	/ Deen	_/ Shallow <u>X</u> _/)
5) .	LOCATION	N: Ele	vation:	124	<u> 19.80</u>)	Watershed:	Buck Run	OWL RUN	(O 68)
		Dis	trict:	Lir	ncolr	1	County:	Tyler	Ouadrangle: _F	Paden City 7.5'
6)	WELL OPE	ERATOR_	Applie	ed Mech	nanic	s Cor	poration :	DESIGNATE	DAGENT C. L.	Stout
,	Address		Rt. 1,						Route	
			Bridge	eport,	WV	26330)			eport, WV 26330
8)	OIL & GAS	SINSPEC	TOR TO	BE NOTII	TED			D) DRILLING C		
٠,	Name		Robert			r		=	Unknov	v n
	Address		Genera	al Del:	very	7		Address		
			Middle	ebourne	e, WV	ī				
	PROPOSE.			Plug of	f old f	formation	n/ Perfora	te new formation	/ Stimulate_ X	
11)	12) Estima	ted depth o	of complet	ed well	,	4350	feet			
		•	-	· -					fact	
									e area? Yes	/ No X /
	CASING A							i being mineu m m	ic alea? Tes	/ No/
CA	SING OR BING TYPE	IND TUBI		SKAIVI SIFICATIONS Weight	3	1	FOOTAGE IN	TERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	DING TITE	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Con	ductor	11-3/4	H-40	42		X	20	20		Kinds
Fres	h water									
Coa				.						Sizes
Inte		8 - 5/8			Χ		1150	1150	Circulate 7	o surface NE
		/. 1/2	1 55	10 5	37	1		/ 05.0	10.	4

AT Producti Tubing Top OFFICE USE ONLY **DRILLING PERMIT** 47-095-1092 October 12, 19 84 Permit number Date This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof. October 12, 1986 Permit expires unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: Agent: Plat:

ninistrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

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



MAY 3 1 1985



1)	Date: May	30,			_, 19 <u>85</u>
2)	Operator's	7			
	Well No.	AM	84-5		
•	A POT 182-11 NI-	47	7005	1002	_

County

Permit

OIL & GAS DIV. DEPT. OF MINES

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYP				۰					Y
			roduction 124	,o			Dunale Dun & C	_/ Deep Owl Run	/ Shallow/)
5) LOCATION		ation:	incoln			_ Watershed: _ County:	Tyler		Paden Chty 7.5
6) WELL OPE			ied Me		ics Co	_ County:	7) DESIGNATED		es L. Stout
6) WELL OPE Address	Rt		ox 41-				Address	Rt. 1, Box	
Address			rt, WV		30	1115	Auditos	Bridgeport,	
8) OIL & GAS					0	x 7 - , -	9) DRILLING CO	NTRACTOR:	
Name	Rober	t Lowt	her				Name		
Address	Mid	dlebou	rne, W	V 26	149		Address		
10) PROPOSEI	D WELL V	VORK:	Drill		/ Drill	deeper	/ Redrill	Stimulate X	
			Plug of	f old f	ormation	/ Per	forate new formation_	/	
						n well (specify)_ n jun			
11) GEOLOGI	CAL TAR	GET FOR	MATION,	' ব্যব	18				· · · · · · · · · · · · · · · · · · ·
12) Estilla	ted depth o	d complet	ed well,	フェラ 1 式名。	120.1	87 210	eet O	_	
13) Approx							sait,	feet.	, X
14) Approx		_				ls	coal being mined in the	area? Yes	/ No/
15) CASING A	ND TUBII				41	·			
CASING OR TUBING TYPE		SPEC	IFICATIONS Weight	; !	. [GE INTERVALS	CEMENT FILL-UP OR SACKS	PACKERS
	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)	
Conductor	11.75			X		1440	1440	355 Sacks	Kind
Fresh water	8.625		23	X	-	1440	1440)) Sacks	
Coal			 	 					Sizes Y EXISTIALL
Intermediate Production	4.5		10.5	X	1 1	3144	3144	295 Sacks	Depths set
Tubing	4.5		1 10.	_		J1-77	J. J. T.	E)) Buom	J. Company
Liners		- e · · · · · · · · · · · · · · · · · ·	†						Perforations:
			İ						Top Bottom
					····	OFFICE US	E ONLY	,	
						DRILLING			
	47-0	95-109	92 F						May 31 19 85
Permit number_	47-0	93-103	, Z F				The law of	Date	
This permit cover	rina tha w	ell operat	or and we	II locati	on shows	n helow is eviden	ice of permission grants		ce with the pertinent legal re-
quirements subje	ect to the co	onditions	contained	herein	and on th	ne reverse hereof.	Notification must be gi	ven to the District Oil	and Gas Inspector, (Refer to
No. 8) Prior to the	he construc	tion of ro	ads, locati	ons an	pits for	any permitted w	ork. In addition, the wo	ell operator or his con	tractor shall notify the proper
						work has comme			
The permitted w reverse hereof.	ork is as d	escribed in	n the Notic	e and	Application	on, plat, and recl	amation plan, subject to	o any modifications ar	nd conditions specified on the
Permit expires _	M	lay 31,	, 1987			unless	well work is commenced	prior to that date and	prosecuted with due diligence.
1 crimic expires _							WON WORK IS COMMONOCE	prior to mar dare and	procedure with and amgence.
Bond:	A		Plat:	Casi		Fee			
Bond:	Agen		Plat:	Casi	11	Fee			j
8	111	JY	$\gamma)\cup$	rr)	N 3	6/	m	1 1	1/
			-				/ / larg	aret .	Masse
							ja ja ja	inistrator, Office of O	oil and Gas
NOTE: Keep o	one copy of	f this pern	nit posted	at the	irilling lo	cation.	\mathcal{O}		File