

DIVISION OF LANGE

State of West Virginia Permitting Division of Oil and Gas

Corrected

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Well Operator's Report of Well Work

Farm name: MAZVIN LEGRANDE

Operator Well No.: Number 2

LOCATION: Elevation: 998 Quadrangle: Shinkley 7.5'

District: Mc ELROY County: TYLER Latitude: 13090 Feer South of 39° 25'00"

Longitude 8680 FEET WEST OF 80° 47' 30"

Company:DRILLING APPALACHIAN CORP

P. O. BOX 99

ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: GLEN P. ROBINSON Permit Issued: 07/11/90 Well work Commenced: 08/02/90
Well work Completed: 08/15/90 Verbal Plugging Permission granted on:
Rotary XX Cable Rig
Total Depth (feet) 5250 Fresh water depths (ft) 50 

Is coal being mined in area (Y/N)?

Coal Depths (ft):

Casing	Used in	Left	Cement  Fill Up
Tubing	Drilling	in Well	Cu. Ft.
Size		ļ	!
8%	1514	1514	1 405 EN
41/2		5088	535 sks
	<b></b>		

OPEN FLOW DATA

Producing formation Benson Sano Pay zone depth (ft) 4935-38

Gas: Initial open flow show MCF/d Oil: Initial open flow Bb1/d Final open flow Bb1/d Time of open flow between initial and final tests Hours . Hours Static rock Pressure /500 psig (surface pressure) after Second producing formation RILEY SANO Pay zone depth (ft) 45/2-5/1

Gas: Initial open flow MCF/d oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Static rock Pressure\_\_\_\_\_psig (surface pressure) after \_\_\_\_\_Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED TO INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, = INCLUDING COAL ENCOUNTERED BY THE WELLBORE. 0

For: DRILLING APPALACHIAN CORP.

By: Knowth Mesons

Date: 2/27/90



GEOLOGICAL WELL RECORD DATA

WELL NAME: LeGRANDE #2

PERMIT NUMBER: 47-095-1404

	TOP	BOTTOM	
SOIL	0	15	•
BROKEN SAND	50	75	
SANDS AND RED SHALES	· 75	1223	SALT WATER
1ST SALT SAND	1223	1268	
2ND SALT SAND	1620	1660	
3RD SALT SAND	1828	1843	SALT WATER
BIG LIME	1868	1932	
KEENER	1932	1976	•
BIG INJUN SAND	1976	2075	
WEIR	2232	2336	
BEREA SAND	2428	2430	
GORDON SAND	2643	2687	SHOW GAS
FIFTH SAND	2855	2862	
WARREN	3338	3372	
RILEY	4512	4560	SHOW GAS
BENSON	4933	4936	SHOW GAS
TOTAL DEPTH	5225		

## WELL TREATMENT SCHEDULE

Benson Sand 4933 - 4936 Perforated with 18 holes Formation Break Down 1988 PSI

> Hydraulic frac with Nitrogen assist Average Treating Rate 19 barrels per min 384 barrels of gel treated water

300 sacks of 20/40 sand 50 sacks of 80/100 sand 70,000 scf of Nitrogen

Average Treating Pressure 2055 PSI

Riley Sand 4512 - 4551 Perforated with 20 holes Formation Break Down 2793 PSI

> Hydraulic frac with Nitrogen assist Average Treating Rate 19 barrels per min 368 barrels of gel treated water 250 sacks of 20/40 sand

250 sacks of 20/40 sand 75 sacks of 80/100 sand 73,000 scf of Nitrogen

Average Treating Pressure

2245 PSI

FORM WW-2B

| Plat | Ww\_o |

## STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Ope	erator:	DRILLING	APPALACHI AN	CORPORATION		
2) Operato:	r's Well	Number:_	LeGRANDE	#2	3) E	levation: 998'
			or Ga			
	(b)	If Gas:	Production Deep	n_X/ Underg: p/	round Stora Shall	
5) Proposed	l Target	Formation	n(s):Ben	son/Riely 212		
6) Proposed	i Total D	epth:	5300±	feet		·
7) Approxim	nate fres	h water s	strata dep	ths:90	) ! 	
8) Approxim	mate salt	water de	epths:	1500'		
9) Approxim	mate coal	seam dep	oths:			
						Yes/ No <sup>X</sup> /
				e, stimulate :		
12)						
		CASIN	IG AND TUB	NG PROGRAM		
TYPE 10/00	S	PECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT
2/1/9/20	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"	Ĥ-40	42#	100'	100'	CTS
Fresh Water						
Coal						
Intermediate	8-5/8"	J-55	23#	1500'	1500'	38CSR18-11.2.2 38CSR18-11.3
; Production	4-1/2"	J-55	10.5#	5138'	5138'	38CSR18-11.1
Tubing					·	
Liners		·			M	Man In
PACKERS : Kin					11/2	
Siz Dep	es ths set _		·			<u> </u>
48,a	Fo	or Diviso	n of Oil a	nd Gas Use		VISION OF OIL & GAS ARTMENT OF ENERGY
	aid:	Well W	ork Permit	Recl	amation Fun	d   WPCP

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Page	1	of.
Form	W	W2-A
(09/8	37	)
File	C	ору

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

Date	e: J	uly 9, 199	0		
Operator's well number					
LeGRANDE #1					
API	Well	No: 47	- 095	_	1404
		State -	County	_	Permit

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

1)

3)

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	NOTICE	AND APPLICATION	FOR A WELL WORK PERMIT	
4)	Surface Owner(s)	to be served:	5) (a) Coal Operator:	
2 /	(a) Name Marvin Le	Grande	Name	
	Address HCR 74, F	30x 77	Address	
		WV 26320		
	(b) Name		(b) Coal Owner(s) with	Declaration
	Address		Name	
	Address		Address	
	(c) Name	*	Address	
	Address		Name	
	Address		Address	
			Addies	
6)	Inchestor diam pobl		(c) Coal Lessee with De	claration
0)	Inspector Glen Robi	nson .	Name	
	Address Rt 1, #6 Mt	Pleasant	Addross	
	Mineral V	Vells, WV 26150	Address	
	Telephone (304)			
		DD GOV (G) WAYED	AMALIM GRAMON GRACH GRACH	
	TO THE P	ERSON(S) NAMED A	ABOVE TAKE NOTICE THAT:	
		-		
			or other continuing contra	act or
cont	racts by which I h	iold the right to	extract oil and gas <u>OR</u>	
X	_ Included is the i	.nformation requ:	ired by Chapter 22B, Artic	cle 1,
Sect	ion 8(d) of the Co	ode of West Virg	inia (see page 2)	
	I certify that as	; required under	Chapter 22B of the West	<u>Virginia Code</u>
I ha	ive served copies o	of this notice and	nd application, a location	n plat, and
acco	ompanying documents	pages 1 through	h $\frac{5}{}$ on the above named	parties,by:
	Personal Ser	vice (Affidavit	attached)	
	Certified Ma	ail (Postmarked	postal receipt attached)	•
	Publication	(Notice of Publ	ication attached)	
	. I have read and u	inderstand Chapt	er 22B and 38 CSR 11-18, a	and I agree
to t	the terms and condi	itions of any be	rmit issued under this app	plication.
	I certify under r	nemalty of law t	hat I have personally exam	mined and am
fami			ed on this application for	
			uiry of those individuals	
			tion, I believe that the	
	true, accurate, and		crom, i believe ende ene	21.202
715			icant penalties for submi-	tting false
. ء ـُـ .				
lnic	ormation, including		y of fine and imprisonmen	
150	OFFICIAL SEAL	Well Operator		PORATION
Comments.	NOTARY PUBLIC	By:	Kenneth Meson	
	STATE OF WEST VIRGINIA	·Its:	PRESIDENT	
1000	J. L. MASON P. O. Box 48	Address	PO BOX 99	
	Alma, West Virginia 26320		ALMA, WV 26320-0099	
	My Commission Expires Jan. 28, 1997	}	(304) 758-4638	
Sub	scribed and sworn l	$5$ efore me this $\_$	9th day of July	, 19 <u>_90</u>
			BH =	
			- William	Notary Public
My	commission expires	1/28/97	1"	