

Operator Well No.: 22680



Farm name: Burgess

LOCATION:

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Elevation 2670' Quadrangle: Mount Storm

District: UNION Latitude: 7850 Feet South of Longitude 2250 Feet West of	39 Deg. 7	1: GRANT 17 Min. 08 S 19 Min. 10 S	Sec. Sec.	٠.
Company: COLUMBIA NATURAL RESOURCES P. O. BOX 6070 CHARLESTON, WV 25362-0070	Casing & Tubing	Used in Drilling	Left	Cement Fill Up Cu. Ft.
Agent: JOSEPH E. CAMPBELL	13/3/8	140	124	90
Inspector: Philip Tracy Permit Issued: 09/02/93	9,-5/8	2239	2205	690
Permit Issued: 09/02/93 Well Work Commenced: 10/11/93 Well Work Completed: 02/01/94 Verbal Plugging	5-1/2	9720	9698	758
Permission granted on: Rotary X Cable Pig	2-3/8	cado	9395	
Permission granted on: Rotary X Cable Rig Total Depth (feet) 9720 Fresh water depths (ft)				
Salt water depths (ft)				
Is coal being mined in area (Y/N)? N Coal Depths (ft): OPEN FLOW DATA Producing formation Oriskang Gas: Initial open flow MCF, Final open flow between initial and static rock Pressure 3460 psign Second producing formation Gas: Initial open flow MCF, Final open flow MCF, Time of open flow between initial static rock Pressure psign NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING FRACTURING OR STIMULATING, PHYSICAL CHANGE, DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS	/d Oil: In /d Fi l and final g (surface NG: 1). ETC. 2).	_ Pay zone itial open nal open fl tests _ pressure) a DETAILS OF THE WELL LO	depth (ft) flow ow fter PERFORATED G WHICH IS	- Bb1/d - Bb1/d - Hours - Hours INTERVALS,
=	0011111	Ve his wine.	DECOMPOSE	AUS 1 5 199
F	or: COLUMB By: Date:	TA NATURAL	Trien	ð

023 30
Greenbrier
Hampshire Fm
Fore Knobs FM
Scherr FM
BRAIlier FM
HARREII Sh
Upper MARCEllus sh.
Purcell LS
Lower Marcellus Sh.
Needmore Sh.
Orishang

WELL 22680

Interval	Holes per foot*	No. of holes
9387'-9395'	6	48
9398'-9403'	6	31
9430'-9435'	6	31
9437'	6	6
94391	6	6
9442'-9445'	6	19
9448'	6	6

147 Total holes

Stages 1 the Oriskany

Pump 306861 Pad - 30 # Pur - Gel 3 w/2861/min CO2

Pump 2250 Bbl 30# Rur - Ge/3
Rump Sand from 1/2 per gal to 53/4 per gal
w/2Bbl/min CO2

Pump flush - cut COz. screened out@ 6882# SPsi

Total Water 2753.486/ Total Sand 150 SKS 80/100 2268 SKS 20/40

Total CO2 80 TON

shif To for 20 hrs

Ave Treating Rate 5500 = ISIP 6721 = 5'SIP 4892 10'SIP 4628 15'SIP 4510 = 15'SIP 451

AUG 2 5 1994

Well # 22680

<u>Interval</u>	Holes per foot*	No. of Holes
9580'-9582' 9584'-9586' 9588'-9590'	4 4 4	12 45
	•	-monocomordono-monocolo

Total Holes - 36

Shriver Chert

*Phase shots every 90°

Pump 1500 gel 15% (+CL @ ZBbl/min)
Breakdown 3190#
Broke to 3088# climbed to 3380#

ISIP 3300# Smin SIP 3270#

gas flow after breakdown & 20 mcf/d

Set cast Iron Bridge Plug @ 9550

17033-0030 Janual 09/07/9

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GASTPOOL 09/07/95 WELL WORK PERMIT APPLICATION

	1)	Well Open	rator:	COLUMBIA N	ال ا	JRCES, INC. 10	1460	3 491
	2)				22680			evation: 2670'
	4)				or Gas			
7916			(b) I	f Gas:		Undergr	ound Storage Shallov	
hamed,	5)	Proposed	Target F	ormation	(s): <u>Or</u>	iskany 475		
	6)	Proposed	Total De	pth:	9500	feet		
	7) Approximate fresh water strata depths:							
	8) Approximate salt water depths:							
	9")	Approxim	ate coal	seam dep	ths:		_	
	10)	Does lan	d contain	coal se	ams tribut	ary to acti	ve mine? Ye	es/ No X/
	11) Proposed Well Work: Drill New Gas Well/Stimulate							
	12) CASING AND TUBING PROGRAM							
	TYPE		SP	ECIFICAT	IONS	FOOTAGE IN	ITERVALS	CEMENT
			Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
:""	Cond	uctor	13-3/8	Н	48	120	120	84
	Fres	h Water					(1)	20C5K/B112
	Coal						15	3908/9 Har
	Inte	rmediate	9-5/8	J	40	2220	2220/	689
	Prod	uction	5-1/2	N	17	9441	9441	240
	Tubi	ng	2-3/8	N	4.7		9400 (3855/B1X/
	Line	rs					RE	CEIVED
	PACKERS: Kind Finvironmental Protection							
	Sizes							
For Divison of Oil and Gas Use Only Permitted								
For Divison of Oil and Gas Use Only Fee(s) paid:								
	F	Plat	K/ WW-9	ww-	-2B / I	Bond fur	Type)	Agent
	J	2		0	//		(-18-)	



STATE OF WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION

#10 MaJUNKIN ROAD NITRO, WEST VIRGINIA 25143-2506

September 10, 1993

Division of Environmental Protection Office of Oil and Gas #10 McJunkin Road Nitro, West Virginia

RE: Application for Permit #47-023-00030 to drill deep well.

COMPANY: Columbia Natural Resources, Inc.

FARM: Leon & Leroy Burgess #22680

COUNTY: Grant DISTRICT: Union QUAD: Mount Storm

The application of the above company is <u>Approved for Oriskany</u>
(Approved or Disapproved)

Applicant <u>has</u> complied with the provisions of Chapter twenty-two, eight (22-8), of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1.) Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners; yes
- 2.) Provided a tabulation of all deep wells within one mile of the proposed location, including the Api number of the deep well, well name, and the name and address of the operator and; none
- 3.) Provided a plat showing that the proposed location is a distance of 1,250 feet from the nearest unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Brett Loflin

Petroleum Engineer

	Www.come	intal Projection		
Page :	// م_ ه	4 \	Date: Ju	ly 16, 1993
Form V	WW2-A	J & 355 2)	Operator's we	ll number
(09/8)	7). F	mitting	2	2680 47 - 023 - 0030
	w fice of	(S cest 3 lio k	API Well No:	47 - 023 - 0030
	*.	,	Sta	te - County - Permit
		STATE OF WE	em widcinia	
	חשים ג סיים		DIVISION OF OIL	AND GAS
	DEFARTIE	MI OF DINDINGEY		2021 00 000
	NOTICE A	ND APPLICATION	FOR A WELL WORK	PERMIT
	Wilson Branch County of the Co			
	Surface Owner(s) t			perator:
	(a) Name Leon J. & J	udy C. Burgess		
	Address Route 1		Address	
	Elk Garden,	WV 26/1/	(h) Con 1 Con 0	-(-) with Doglaration
	(b) Name LeRoy J. &	Loretta K. Burges		r(s) with Declaration me as Surface)
•	Address Route 3, Bo Rawlings, M	X 200-A D 21557	Address	ine do outrace)
•	(c) Name	0 21337	Address	
	Address			
6)	Inspector Phillip Route 2,	Tracy	(c) Coal Less	see with Declaration
	Address Route 2,	Box 37-A	Name	
	montrose	, WV 20203	Address	
	Telephone (304)	030-0/90		
•	mo mur be	PCON(C) NAMED	ABOVE TAKE NOTIC	·ም ጥዛልጥ•
	10 Ing FE	RSUN(S) NAMED	ADOVE TAKE NOTIC	/53 4 1153 k 4
	Included is the le	ase or leases	or other continu	ing contract or
contr	acts by which I ho	ld the right t	o extract oil an	nd gas <u>OR</u>
X	Included is the in	formation requ	ired by Chapter	22B, Article 1,
Secti	on 8(d) of the Cod	le of West Virg	inia (see page 2	2)
	I certify that as	required under	Chapter 22B of	the West Virginia Code
I hav	e served copies of	this notice a	nd application,	a location plat, and
accom	panying documents	pages 1 through	n <u> </u>	ove named parties, by:
	Personal Serv		postal receipt a	ttached)
			ication attached	
				· /
	I have read and ur	derstand Chapi	er 22B and 38 CS	SR 11-18, and I agree
to th	e terms and condit	ions of any pe	rmit issued unde	er this application.
	I certify under pe	enalty of law i	hat I have perso	onally examined and am
famil	iar with the infor	mation submit	ed on this appli	ication form and all
attac	hments, and that b	pased on my ind	uiry of those in	ndividuals immediately
			tion, I believe	that the information
15 Cr	ue, accurate, and	complete.	icant nonalties	for submitting false
infor	mation, including	the nossibilit	v of fine and in	norisonment.
Property .		Well Operate	Z COLUMBIA NATURAL	RESOURCES, INC.
134	DEFICIAL SEAL PUBLIC STATE OF WEST PERCENTA	By:	Wintell	
NOTARY	STEPHEN V. SHOLDER	Its: Vicé		a & Production Operations
>	P. O. BOX 6070	Address P. 0		
Nav CC	CHARLESTON, WV 25362 DMMISSION EXPIRES 05 - 25 - 98	A	<u>eston, WV 25362-00</u>	
A.C.		Telephone _		353-5000 T./. 1983
	TT T T T T T T T T T T T T T T T T T T	ma +mia		1.476. 147.5

___Notary Public

RECEIVED

My commission expires