



(Rev 8-81)

OIL & GAS DIVISION

Gas: Initial open flow_

Static rock pressure

Final open flow



DEPT. of MINES
Sinte of West Birginia

Bepartment of Allines Bil und Gas Bivision

Date 12/1	/83			
Operator's	#BE2	e sate		
Well No.	DI	0		
Farm WVI				
API No.	- 0	85 -	6052	

Bbl/d

Bbl/d

hours shut in

OF DRILLING, FRACTURING AND/OR STIM		R PHYSICAL	L CHANGE	
WEIL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Undergro	una Storag	je/ Deel	J_/ 3116	
LOCATION: Elevation: 1040 Watershed G				
District: Grant County Ritch	ie	Quadrangle	e Cairo	7½
COMPANY Derby Oil & Gas				boowsmoli
ADDRESS 5255 West Pike, Zanesville, OH 43701	Casing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
DESIGNATED AGENT Steve Landvoigt	Tubing	Drilling	TIT METT	Cu. Ic.
ADDRESS Box 56, Ellenboro, WV 26436 SURFACE OWNER West Virginia Investment	Size 20-16 Cond.			ofai gla
ADDRESS	13-10"	- Property	on atakh	
MINERAL RIGHTS OWNER West Virginia Investment	9 5/8	Driver H.	- C	
ADDRESS	8 5/8	2105	2105	60 sacks
OIL AND GAS INSPECTOR FOR THIS WORK Sam	7			00
HERSman ADDRESS	5 1/2			
PERMIT ISSUED	4 1/2	5774	5774	lst stag
DRILLING COMMENCED 12-4-82	3			2nd stag
DRILLING COMPLETED 12-8-82	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners			
GEOLOGICAL TARGET FORMATION Devonian Shale		Dep	oth	feet
Depth of completed well 5600 feet	Rotary			
Water strata depth: Fresh 100 feet;				
Coal seam depths: N/A		being mir	ned in th	e area?
OPEN FLOW DATA				
Producing formation Devonian Shale	Pa	y zone deg	oth 29	90-5600 feet
Gas: Initial open flow 100 Mcf/d			,	
Final open flow 100 Mcf/d				
Time of open flow between ini				
Static rock pressurepsig(surfa				
(If applicable due to multiple completion				OV 0 5 1984
Second producing formation		ay zone deg		

Mcf/d Oil: Initial open flow_

Mcf/d Oil: Final open flow_

Time of open flow between initial and final tests hours

psig(surface measurement) after_

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

Three stage frac 1.2mmcf N₂ 80,000 lb. Co₂
Treated Devonian Shale 2900-5600

WELL LOC

TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
0	1200	Fresh Water at 100'+
1200	1280	No water encountered below 100'
1360	1420	
1480	1660	
1670	1710	
1765	1850	Gas
1900	1990	5bbl Oil
2770	2800	Oil show
3620	3920	Oil
4230	4240	Gas
5778		
5780	ELEL PRICH EX	
1. 8		BESEDOA OWORSET!
		57 80 TIMBER
		57 1040
	2	33 4740
	NO BLEE YEG	1080
rid	500000000000000000000000000000000000000	3660
12011	-	
Cartification and the	200	
	0900	
	DEST	Water strate depths F
81	3/A	
-		
	0 1200 1360 1480 1670 1765 1900 2770 3620 4230 5778 5780	0 1200 1200 1280 1360 1420 1480 1660 1670 1710 1765 1850 1900 1990 2770 2800 3620 3920 4230 4240 5778 5780

(Attach separate sheets as necessary)

	by Oil & Gas Corporation
By: /	1.1.7.1.2
Date:	12/1/83

NOV 0 5 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

)	Date:	mber	1	. 1
,				

2) Operator's Well No.

3) API Well No. 47
State

Permit

County

DRILLING CONTRACTOR:

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

49	s. 9th St	i. The	diana,	PA	OIL A	ND GAS	WELL PERMIT	T APPLICATION			
					6.753.6	w Spinis		denny grandens			
4)	WELL TYPE:					_/ ,	I ladanasan dar	LECT SEMESTICALS	/ Day	/ Sh-11	
5)	LOCATION:		tion:				Underground st Watershed:	oosa Craek	_/ Deep	_/ Shallow _	/)
		Distri	ct: Gran	1.6			County:	hie	Quadrangle:	Cairo 74	
6)	WELL OPERA		erby Od				1	I) DESIGNATED	AGENT	Landvoight	
	Address		ville.				of the next of	Address	Equesio session	96346	
7)	OIL & GAS	**	YV.		7				baygot at	Name of Street	
	ROYALTY OV	WNER _	est Viz	rginia	Inve	SCHOR	t corp.	2) COAL OPERAT	TOR		
	Address	WYMM	EWOOD ,	PA 19	096			Address	naugosei een dine		
	Acreage	493		and an income of the part	F.		13	B) COAL OWNER	(S) WITH DECLAR	RATION ON RE	ECORD:
8)	SURFACE OV	VNER	ENT VA	INVES!	TALL	CORP		Name	N/A		
	Address		SAME			(n)	TEAST	Address		in a state of the same	
	Acreage					100		Name			
9)	FIELD SALE	(IF MAD	E) TO:	NIA				Address		Service Control	272
	Address			227.02			-0CT 2 9	1982 COAL LESSEE	WITH DECLARAT	TION ON RECO	ORD.
10)	OIL & GAS IN	NSPECTO	R TO BE	NOTIFIE	D			Name	M/A	TON ON REC	ALL STATES
	Name	465 240	Box 6				OIL & GAS	DIVISION -	and the second second		
	Address		hville		26128	D	EPT. OF	MINES-	CONTROL OF STATE		
15)	PROPOSED V	WORK:	Drill3		Drill de	eeper	/ Redrill	/ Fract	ture or stimulate		
								ew formation			
16)	GEOLOGICA	TADGE	Other phy			ell (specif	(y)	*		Tarana Vinc	
10)	17) Estimated					5700	feet	Service Ann A	y to and his in Longson	to the party	181
	18) Approxim				, 2	40 2	feet;	salt,	feet.		
	19) Approxim	ate coal se	am depths:	- 4	112		Is coa	being mined in the a	area? Yes	/ No	
20)	CASING AND	TUBINO	B PROGRA	AM							
	CASING OR TUBING TYPE		SPE	CIFICATION Weight	NS I		FOOTAG	E INTERVALS	CEMENT FILL-UP OR SACKS	PACKE	RS
	C- 1 1-	Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
-	Conductor Fresh water					4	//07	Es Portario	The state of the s	Kinds	
	Coal									Sizes	
	Intermediate	458		24排 10.5	×		3700	3700	200 bags		
-	Production Tubing									Depths set	
	Liners									Perforations:	
										Тор	Bottom
										48001	4900'
21)	EXTRACTION	N RIGHTS	5				Endery State &		as members		
	Check and pro				continu	ing contra	act on contracts	hu which I hold the	right to extract oil o		
							ee reverse side fo		right to extract on o	r gas.	
22)	ROYALTY PR			mlast than m		hazad um	an a lavas av athe			ing for flat walls	avaltu as assu
									et or contracts provider related to the volume		
Tf +1	produced or ma				anded I	f the anci	ver is Ves vou r	nay use Affidavit Fo	orm IV-60		
	Required Copie			nonai is ii	ccucu. 1	i the ans	wer is res, your	nay use Amuavit Pe	7111 1 V -00.		
24)					-			•	registered mail or d y of this Permit App		
	Mines at Charl				1 lessee	on or ber	ore the day or th	te maning of deliver	y of this Permit App	incation to the L	repartment of
1	Notary:	UN U. I	LEGIFELL	Jan 1	1992	Grand of	rasso laco sal	Signed:	He Grant Change	***********	
]	My Commission	Expires	sept	- 2018 7 1				Its:			
_						OF	FICE USE O	NLY	7/4	WHEEL STATE	
		+(2/5/4)	1.132			DF	RILLING PE	RMIT			19
Per	mit number								Dat	te	
Thi	s permit covering	g the well	operator a	nd well lo	cation s	shown bel	ow is evidence o	f permission granted	d to drill in accordan	nce with the pert	inent legal re-
(Re	fer to No. 10) Pr	ior to the	constructio	n of roads	s, location	on the ro	ts for any permit	otification must be g ted work. In addition	given to the District (i, the well operator of	r his contractor s	hall notify the
		nd gas insp	pector 24 h	ours befo	re actua	u permitte					
Per	mit expires						unless dr	illing is commenced	prior to that date and	prosecuted with	due diligence.