



OIL & GAS DIVISION
DEPT. OF MINES



State of Mest Airginia

Bepartment of Mines Gil und Gas Bivision

Date	1/4/85					
Operator Well No						
Farm La	ang Brothers					
ADT NO	47=-033	3118				

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

CATION: Elevation: 1075'	Watershed Ped	dler Run			
District: Simpson	County Harris	on	Quadrangle	Rosemo	nt
			•		
MPANY PETROLEUM DEVELOPMENT CO		_	T	7 - 61	Cement
DORESS 103 EAST MAIN ST., BRIDG		Caşing	Used in		fill up
SIGNATED AGENT STEVEN R. WILL DORESS 103 EAST MAIN ST., BRIDG		Tubing	Drilling	IN METT	Cu. ft.
Lloyd L. Lang, 21	3 Grand Ave.	Size 20-16			
JRFACE OWNER Bridgeport WV 2	6330 6 W. Philadelphia	Cond.			
James R. Lang, 23 Ave., Bridgeport,	W 26330	13-10"	30'	30'	cement to surface
NERAL RIGHTS OWNER Lloyd L. L		9 5/8			
DDRESS 234 W. Philadelphia Ave,		8 5/8	923'	923'	210 sks
IL AND GAS INSPECTOR FOR THIS	WORKSTEPHEN	7			
CASEY ADDRESS TANE 1 FW	W 26378	5 1/2			
ERMIT ISSUED NOVEMBE	R 21, 1984	4 1/2	4323'	4323'	455 sks
RILLING COMMENCED NOVEMBE	R 30. 1984	3			
RILLING COMPLETED DECEMBE	R 5, 1984	2			
F APPLICABLE: PLUGGING OF DR					
ONTINUOUS PROGRESSION FROM DR		Liners used			
EWORKING. VERBAL PERMISSION N	OBIALNED	useu			
POLOGICAL TARGET FORMATION 1	Senson		Der	oth 5000	feet
Depth of completed well		Rotary x			
Water strata depth: Fres					
Coal seam depths: n/a	entrantement and a real entran	Is coal	being mir	ed in th	e area? no
		•			
OPEN FLOW DATA		-	•		.54 <i>===</i> +
Producing formation					
Gas: Initial open flow_					
Final open flow 7					
	flow between init				
Static rock pressure 190	opsig(surfac	e measure	ment) afte	er_72_hc	ours shut in
(If applicable due to mu					
Second producing formati		Pa	ry zone de	pth	feet
Gas: Initial open flow_	Mcf/d	Oil: L	nitial oper	n flow	Bbl/c
_1 2 69	V-E /3	A-1. E-	nal man	flow	Bb1 /d
Time of open	flow between init	ial and	final test	sh	ours" 41
Static rock pressure					

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Performed gelled H2O frac with N2 assist on Benson formation. Perforated zone with 13 shots (4238'-54'). Used 578 bbl of sand laden fluid (15,000 lb. of 80/100 sand and 40,000 lb. 20/40 sand). Used a 20 lb. gel system with 70,000 scf N2.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOYTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
GL to KB	0	10	½" stream of H2O @ 38'
sand, shale, redrock	10	1192	gas @ 1100'; no show
big lime	1192	1256	
keener	1256	1291	
big injun	1291	1341	
sand, shale	1341	1716	gas @ 1399'; no show
50 foot	1716	1755	gas @ 1739'; 5/10=2" w/H20
sand, shale	1755	1788	
30 foot	1788	1818	
sand, shale	1818	1866	
gordon stray	1866	1880	
sand, shale	1880	1960	
Gordon	1960	1982	
sand, shale	1982	2026	·
4th sand	2026	2055	gas @ 2046'; 4/10=2" w/H20
sand, shale	2055	2128	
5th sand	2128	2158	
sand, shale	2158	2212	
bayard (lower 5th)	2212	2250	
sand, shale	2250	2825	gas @ 2300'; 2/10=2" w/H20
speechley	2825	2915	gas @ 2600'; 2/10=2" w/H20
sand, shale	2915	3058	gas @ 2910'; 2/10=2" w/H20
balltown	3058	3281	gas @ 3218'; 2/10=2" w/H20
sand, shale	3281	3386	
bradford	3386	3662	gas @ 3526'; 2/10=2" w/H2O
sand, shale	3662	3885	
riley	3885	4108	· ·
sand, shale	4108	4224	gas @ 4138'; 2/10=2" w/H20
benson	4224	4256	
•	4256	4353	TD logger
sand, shale	7230	(4354	TD driller
		433.	
		XX	
	SCHOOL	population	
		Name of the last o	

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATI	ON
Well Operator	
Date: 1/4/84	

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 word, encountered in the drilling of a well."



1)	Date:	19
2)	Operator's	

Well No. <u>Lang Brothers #1</u>

3) API Well No. <u>47 - 033 - 3118</u>

State County

Permit

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

APPLICATION FOR A WELL WORK PERMIT

4)	WELL TYP	E:						/ Lindararow	nd storage	/ Deep	(Chair-	0
5)	LOCATION	j.	Ele	f "Gas", I vation:	1000000101	1	075	Watershed:	Peddler R		_/ Snamow	/)
-/	200/11/0/	••					- The same of the			Quadrangle:	Rosomont	
6)	WELL OPE	RA								ED AGENT <u>STEVEN</u>		
•,	Address							STREET		PO BOX 26, 10		
	, , , , , , , , , , , , , , , , , , , ,			DGEPOR'	-			- ·		BRIDGEPORT, W		
8)	OIL & GAS	IN			•				9) DRILLING	_	¥ 2033U	
٠,	Name									CONTRACTOR.		
	21			2, BOX					Address			
				E LEW.					ridaress			
10)	DDUDUGET	, ti		,					(Dad-ill	Stimulate	क्टान्स इस्टर्	2(B(Z)
10)	I NOI OSEI	, ,,	LLL	WORK.				-	forate new formation	4 4 1 1	为這 U W	/ 5 1 1
									forate new formatio	The state of the s		9111
11)	GEOLOGIC	~ A I	TAD	CET EOD	-	-	-			34	*	
) <u>00 </u>	pot		7 - 7 198	{Z
									salt, 1200	foot		X .3
	13) Approx		ale coe	a ucpins. Lesem den	the Si	5 · 48	30. 63		san, 1200	he area? Yes OIL	()	
151	CASING A	NIII.	ate coa TUDI	NC DDO	DAM		<u> </u>	19	coar being mined in i	-		
	SING OR	145	1001		IFICATIONS		81	POOT !		DEP	[. of,∆	INFE
	BING TYPE			¥	Weight		a contract		GE INTERVALS	CEMENT FILL-UP OR SACKS	PACK	ERS V
			Size	Grade	per ft.	New	Used	For drilling	Left in well	(Cubic feet)		
			3/4	H-40	42#	X		30'			Kinds	***************************************
	n water						l li					
Coal .	1		- /-								Sizes	
	mediate		5/8			_ <u>x</u> _		<u> </u>	900'	tement_to_su	11	at cmt)
	Ī	4	1/2	⊢J-55	10.5#	_X_	1 1	5000 '	5000'		Depths set	
Tubi							+					
Lines	rs .				-		1				Perforations:	
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Art - Territoria								DRILLING				
	•						.j	PRILLIPE I	LEWIAII I			
Perr	nit number			47-03	3-3118					Novembe	r 21,	19 84
										Dat	.e	
This	permit cove	ing	the w	ell operate	or and wel	locati	on shown	below is eviden	ce of permission gran	nted to drill in accordan	ce with the per	tinent legal re-
ø₁e Ö∏IL	ements subje	et to	o the c	onditions	contained	herein :	and on the	e reverse hereof.	Notification must be	given to the District Oil well operator or his con	and Gas Inspe-	ctor, (Refer to
distr	rict oil and ga	e et	onstrut ispecto	or 24 hour	s before a	ous am ctual pe	rmitted w	ork has comme	nced.)	well operator or his con	tractor snan no	tify the proper
									•	to any modifications a	nd conditions -	:=:=================================
reve	rse hereof.	7+ IN		eserroca ii	i the roome	c and i	тррисано	n, pate, and reci	amation plan, subjec	to any modifications a	nd conditions s	pecified on the
Perr	nit expires _		Nove	ember :	21, 19	86		unless v	well work is commenc	ed prior to that date and	prosecuted with	: 1 due diligence.
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P	ond:		Agen		Plat:	Casii	200	Fac				
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