







IV-35 (Rev 8-81)



State of Mest Airginia Peparlment of Mines Oil und Gas Bivision

ric wat as the	
Date 1024 6, 1987	
Operator's	
Operator's Well No. #2-Epi	
Farm G. MURPHY	
API No. 47 - 085 - 5979	

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

ALCOHOL: A SECTION OF THE PARTY	.S Watershed Co	AUS FUR)		PORPERSON
District: CLAY				ELLEN,	BORD 7.3
					THREE SILF
COMPANY HIGHELAND RESERVE	K. Fan	52.5 1			-340
ADDRESS POR BOX 56 FILE	•	Jan Na I	I	(44)	Cement
DESIGNATED AGENT T. STEPHE	1	Casing	Used in	4 4 4	fill up
ADDRESS SAME	44	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER GEORGE P. M.	DURAHU	Size 20-16			7130
ADDRESS ELLENBORO, WV	0000	Cond.	200	2.7	Guil htt
MINERAL RIGHTS OWNER SAM	16	13-10"	350	350	70 SURF
ADDRESS	w PAC	9 5/8		(* 4)4	DARK STRUCT
OIL AND GAS INSPECTOR FOR '	אמרא בווינו	8 5/8	2100	2100	4505rs
ADDRESS	THIS WORK	7		-	astalias, or
PERMIT ISSUED /1-67		5 1/2			Gugadi
Consumer of the 1 state on any contract of the Constitution of the	7	4 1/2	4050	6050	251465 76
DRILLING COMMENCED 12-72.		3			70.13858
DRILLING COMPLETED /- /2		2	4850	4850	63
IF APPLICABLE: PLUGGING OF	F DRY HOLE ON M DRILLING OR	Liners		- UT	P IN CINC
REWORKING. VERBAL PERMISS		used			
ON					
	1 .			12 1.10	5 feet
GEOLOGICAL TARGET FORMATIO	N OLENTANCY LIMESTE	WE.	Dep	th 6.09	2 166
GEOLOGICAL TARGET FORMATION Depth of completed we			Dep ∠_/ Cabl	Communication of the last of t	
Depth of completed we Water strata depth:	11 6095 feet	Rotary. X.		e Tools_	
Depth of completed we	11 6095 feet; Fresh 250 feet;	Rotary. X.	× / Cabl	e Tools_	
Depth of completed we Water strata depth: Coal seam depths:	11 6095 feet; Fresh 250 feet;	Rotary. X.	× / Cabl	e Tools_	
Depth of completed we Water strata depth: Coal seam depths:	11 6095 feet; Fresh 250 feet;	Rotary X Salt_ Is coal	× / Cabl feet being min	e Tools_	area? No
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation	Fresh 250 feet; Skyrer, Skyrer, Skyrer,	Rotary X Salt Is coal	<pre>// Cabl feet being min y zone dep</pre>	e Tools ed in the	area? No
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flo	Fresh 250 feet; Skyrek) Skerkly Skital Ow 71 Mcf/d	Salt_ Is coal Pa	<pre>/ Cabl feet being min y zone dep itial open</pre>	e Tools ed in the th 269 flow 2	fcc
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow	Fresh 250 feet; Skyrek) Skyrek) Mcf/d Mcf/d	Rotary X Salt Is coal Pa Oil: In	<pre>/ Cabl feet being min y zone dep itial open nal open f</pre>	e Tools ed in the th 269 flow 2	fcc Bbl/c Bbl/c
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow Time of op	feet Fresh 250 feet; Skyree, Skyree, Wef/d Mef/d en flow between init	Rotary X Salt Is coal Pa Oil: In Fi	<pre> / Cabl feet being min y zone dep itial open nal open f inal tests </pre>	ed in the	fcc Bbl/c Bbl/c
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow Time of op Static rock pressure	Senter feet; Se	Salt Is coal Pa Oil: In Fi ial and f	<pre> / Cabl feet being min y zone dep itial open nal open f inal tests </pre>	ed in the	fcc Bbl/c Bbl/c
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow Time of op Static rock pressure (If applicable due to	Senter feet; Mcf/d Mcf/d Mcf/d Den flow between init Senter feet; Mcf/d	Rotary. X Salt Is coal Pa Oil: In Fi ial and f be measure	/ Cabl feet being min y zone dep itial open nal open f inal tests ment) afte	e Tools ed in the th 264 flow 2 low 2 co he	fcc Bbl/ Bbl/ Bbl/ ars 5445
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow Time of op Static rock pressure (If applicable due to Second producing form	feet Fresh 250 feet; Skylyter) Skylyter) Skylyter) Mcf/d Mcf/d Mcf/d Mcf/d Den flow between init Sco psig(surface) multiple completion mation	Rotary X Salt Is coal Pa Oil: In Fi ial and f we measure Pa	/ Cabl feet being min y zone dep itial open nal open f inal tests ment) afte	e Tools ed in the three	fcc fcc Bbl/ Bbl/ Bbl/ ars bays fcc
Depth of completed we Water strata depth: Coal seam depths: DPEN FLOW DATA Producing formation Gas: Initial open flow Time of op Static rock pressure (If applicable due to Second producing form Gas: Initial open fl	feet Fresh 250 feet; Skylyter) Skylyter) Skylyter) Skylyter) Mcf/d	Rotary X Salt Is coal Pa Oil: In Fi ial and f e measure) Pa Oil: In	/ Cabl feet being min y zone dep itial open nal open f inal tests ment) afte	e Tools ed in the three	fcc Bbl/ Bbl/ Rbl/ ars shut i

FORM IV-35 (REVERSE)

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

4944 TO 4235' 345,000 Seps NITELESN, 13.25 TENS CEZ

4230 70 301600 425,000 SEE NITREEN, 20 TON CO.

UPD 3610 TO 2694 UPD 455,000 SER NITHER 27 PON COL

87 1-10CES . 39 ENTRY

WELL LOG

	ction / W	efal blupil	WELL TYPE: OIL X / Gas X /
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and g
Sand Sang VELLE etemestrug	200	230	FRESH WATER- SEE
SHALE SILFSRIPE	7.50	1350	en maria
SALT SAND	1350	1350	****
Silate	1382	1600 500	COMBINING PHEHICLES ! CESCIFICES "
200 SACT SHOW	1600	1620	VODUESS TO SUK 25 SESUGON
3 RD SALT SHOD	1710	1222	S. TEGEROOF
JUSUN SAND	1870	1960	SHOW CILLED & CHILLY
LUEIL	2010	2060	
57H SHND	× 40	2660	OCT 27 1987.
19782 SPEECHIE-1	33cc	3352	SHEW SIC/GASDIVISION OF OIL & GAS
ower Speechley	3420	3490	DEPARTMENT OF ENERGY
ST BALLEON	3970	3990	SHOW 0/6
LND BALLTOWN	4100	4150	OIL AND GAS INSPECTOR FOR THE
Bensus	4600	4620	
ELK - MARK ORDAN CORDAN	5250	5375	SZ-4/ GEOSSI ABRISA
MARGELLUS	5820	5990	SHOW & COMPAND WILLIAM
onon @ to log strat grow 867'KB	6095	E HOLE ON SILLING OR OBTAINED	DRILLING COMPLETED /- /2 - 2 IF APPLICABLE: PILISCING OF D CONTINUOUS PROCRESSION FROM B REWORKING. VEHEAL PERMISSION ON
404 2437	30065711) hime (137)	GEOLOGICAL TARGET FORMATION
22 4690 pides \ XX	et Notary	3 3624	
25 4916 1991	et; Salt	a October	
30 some \$202 benim puled is	A STATE OF THE PARTY OF THE PAR		
34 5701			OPEN FLOW DATA
227 5840		0.00	
243 5878			as necessary)

(Attach separate sheets as necessary)

By: 1 9 8 2 Date: 1 9 8 2

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 and, encountered in the drilling of a well."

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		Sir.	
*	1		12
Mag	ANI SENI	THE LIBER	atotto.

1)	Date:	22,1982 ,1	9
2)	Operator's Well No.	PI-\$8870 2	
3)	API Well No.	47 -085-5979 DD	
-,		State County	Permit

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

				OIL A	ND GAS	WELL PERM	MIT A	PPLICATION		
WELL TWO	A 0:1		/ 0	7	,					
WELL TYPE			_/ Gas oduction			Underground	d stora	age	/ Deep	_/ Shallow/)
LOCATION:		ion:	duction			The second secon		ushers Run		
		ct: CLA	7			County:	Lock	ife	Quadrangle:	Henron 7
WELL OPER	RATOR	Ighland	1 Resou	rses			11)	DESIGNATED	AGENT	Landvoight
Address	Box							Address _	<u>gaver</u>	
		Illens	pero, N	W.						
OIL & GAS		George	e Murph	ev			12)	COAL OPERAT	OR N/A	
ROYALTY C		enboro					12)	Address _	UK	
Address								Address		
Acreage	7	79.6 ac	2.				13)	COAL OWNER	(S) WITH DECLAR	ATION ON RECORD:
SURFACE O	WNER	Same						Name		
Address								Address _		
Acreage								Name		BREA
FIELD SALI	E (IF MAD	E) TO:						Address	N/E	V/CHI
Address							4.0		THE DECLARATE	NON ON PECOPD.
011 0 010	INCOPE CETO	D TO DE	NOTIFIE				14)		WITH DECLARAT	1982
OIL & GAS Name	INSPECTO	K TO BE	NOTIFIE	D				Name	4	1706
Address	Box 66		1304	14	77-3	1997		Address		
71441633	Smit	hyllle	, W.,	261	78			THE RESERVE	OIL & GAS D	IVISION
PROPOSED	WORK:	Drill		Drill d	leeper	/ Rec	drill_	/ Fract	ure or stimulate	MIMES
								formation	/	
		Other ph	ysical chan	ge in v	well (spec	ify)				
GEOLOGIC	AL TARGE	T FORMA	ATION, _	Ori	skany					
17) Estimate				OZU	2001	fe				
18) Approxi	mate water s	strata dept	hs: Fresh	,	200	feet;		t, 1800°		/ No
19) Approxi	mate coal se	am depths				Is	coal b	eing mined in the a	area? Yes	/ NO
CASING AN	ID TUBINO	3 PROGR	AM							
CASING OR		SPI	ECIFICATION	NS	. 1	FOOT	TAGE I	NTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling		Left in well	OR SACKS (Cubic feet)	
Conductor	10"					200'		2001		Kinds
Fresh water										
Coal										Sizes
Intermediate	8		24#	X		1900		1900'	The state of the s	
Production	4%		10.58	X		6200		62001		Depths set
Tubing										Perforations:
Liners										Top Bottom
									RESERVED TO SERVED TO SERV	
ROYALTY I	covide one of ed is the lead equirement of PROVISION extract, pro-	of the following of Code 22 NS oduce or m	es or other 2-4-1-(c) (1) narket the o	throu	igh (4). (See reverse sid	other	specifics.)	right to extract oil o	ing for flat well royalty or a
produced or he answer abo Required Co Copies of this	marketed? we is No, no pies (See rev s Permit Ap perator, coa rleston, We	Yes othing add verse side. polication and owner(s) st Virginia	No itional is not and the end and coal and coal and coal	eeded.	If the ar	swer is Yes, yo	ou ma	y use Affidavit For the been mailed by nailing or delivery	orm IV-60. registered mail or de	ne of oil or gas so extract
Notary:	LEY LAS	anabat	quer	22	11 P. 14-15	of the same		Signed:	MINA 40	The Total
My Commission	n Expires	cée.	13, 199	92				Its:	r Id. I	
Journalissic	ALDITOS								V Section 1	C. C
						FFICE USI				
					D	RILLING P	ERN	III		19
mit number _			e succession and an area						Da	
is permit cover irements subject fer to No. 10) Poper district oil	t to the con	ditions co	ontained he	rein an	nd on the	reverse hereof its for any pern	Notif nitted	ication must be gi work. In additio	ed to drill in accordan	nce with the pertinent lega il and Gas Inspector. r his contractor shall notify
		August							prior to that date and	prosecuted with due dilige
rmit expiresBond:	Agen	it:	Plat:		Casing	Fee		Z		
37 4 1 1-						3/1932		1	ministrator, Office o	f Oil and Gas
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NOTE: Keep one copy of this permit posted at the drilling location.

1)	Date: OCTOBER	26	, 19_82
2)	Operator's		

Well No. 3) API Well No.

47 State County

Permit

DRILLING CONTRACTOR:

	3, (7a)	D			OF WEST V MINES, OIL	IRGINIA AND GAS DIVISIO	N	
		- 27. Posibles	OIL AND	GAS W	VELL PERM	IT APPLICATION		
					Maria acces	SECTO CLEANERS		
4) WELL TYPE		Gas'', Production		/ τ	Jnderground :	storage	_/ Deep	/ Shallow/)
5) LOCATION	: Elevation	on: 852.2			Watershed: _	LITTLE KARAY	7HA	and the second s
6) WELL OPER	District	GLAY SHLAND RESO	HSES	(County:	11) DESIGNATED		LLENBORD 7.5
Address	30X 50	ELLENBORO		46	hered in a	Address	AGENT (SAME	
5) OV 4 G46		wite medicingly		DALFOR.		cal silvote si sa so		
7) OIL & GAS ROYALTY (OWNER _	CEORGE MURP	HY			12) COAL OPERA	TOR N/A	Han extend 4 . 44
Address	e e e e e e e e e e e e e e e e e e e	LENBORO WV	eahin.		gmas gas	Address		
Acreage	-	80			_	(3) COAL OWNER	(S) WITH DECLA	RATION ON RECORD:
8) SURFACE O	WNER_	CORGE MURPH	Y	SAST		Name	(6) 11111 22 621	
Address	·	(SAME)	- 6	18/4	Boler	Address .		
Acreage		# 80		1111		Name 200		
) FIELD SALI	E (IF MADE)	TO:		9220 40.00	OCT 29	198 Address		AND DESCRIPTION OF THE PARTY OF
Address		N/A				A) COALLESSEE	WITH DECLARA	ATION ON RECORD:
O) OIL & GAS	INSPECTOR	TO BE NOTIFIE	ED	(DIL & GAS	DIVISION	WITH BECENKI	THOW ON RECORD.
Name	ANUAL N.	HERSHMAN	THE PART OF THE PART OF	DE	FI. OF	- Maddress = .	en and the second second	
Address	SMITH	FIRED WV 20	5178	19 (12)	a new rate to	may select a par	lalamin orașia	etaati siteiw
7) PROPOSED			Drill deepe		/ Redri		ture or stimulate_	
						new formation		
GEOLOGICA		Other physical char FORMATION, _			CELLUS			Carola Res. (21)
		mpleted well,	990	500	feet	epwelling being p		
		rata depths: Fresh m depths:	No. of Street,		feet;	salt, 2700 al being mined in the a	feet.	/ No
) CASING AN					15 CO	ar being nimed in the a	irea: res	
CASING OR	II	SPECIFICATIO	NC	11	FOOTAG	GE INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade Weight per ft.		ed	For drilling	Left in well	OR SACKS (Cubic feet)	PACKERS
Conductor	10				200	200	12 Val.	Kinds
Fresh water Coal						<u> </u>		G:
Intermediate	8 5/8	24	×	1	900	1900	200	Sizes
Production	4.5	10.5	×	5	990	5990	200	Depths set
Tubing Liners								Perforations:
								Top Bottom
) EXTRACTIO	N RIGHTS							
		the following:				ning Streethin	ed to draw	
		c or leases or other Code 22-4-1-(c) (1				by which I hold the or specifics.)	right to extract oil	or gas.
ROYALTY P								11 0 01 11 11
								ding for flat well royalty or an ime of oil or gas so extracted
The state of the s		es No D	eeded If th	e ancwe	r is Ves von	may use Affidavit Fo	orm IV-60	
B) Required Cop			iccucu. II ti	ic allswe	i is ies, you	may use Amdavit Po	71111 1 V -00.	
								delivered by hand to the above plication to the Department
Mines at Cha			ir lessee on t	O CO	c the day of t	ne maning or deriver	y of this I crimt Ap	pheation to the Department
Notary: JOHA	G. HEM	PEL WY	1000	*		Signed:		TENNET
My Commission	n Expires	engendesses.	4974			Its: TEN 18	1	0 1
					ICE USE			
ermit number				DRI	LLING PE	RMIT		19
								ate it the section of least
nis permit coveri uirements subject	ng the well o to the condi	perator and well lo tions contained he	rein and on	wn below the reve	erse hereof.	or permission granted Jotification must be 4	to arill in accorda	ance with the pertinent legal r Oil and Gas Inspector.
Refer to No. 10) Proper district oil	rior to the co	ector 24 hours befo	s, locations	and pits ermitted	for any permi work has cor	tted work. In addition mmenced.)	i, the well operator	Oil and Gas Inspector. or his contractor shall notify the
ermit expires	July 3	, 1983	p.					d prosequted with due diligend
Bond:	Agent:	Plat:	Cas	ing .	Fee	tell	- XX 11	Lette
Bank In	7-	11-1	11/10	-		Adı	ministrator, Office	of Oil and Gas

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