Rv.

harleston West Virginia 25211

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CON	TRACTO	R (IF	KNOMI)		S	. W. Jack			
						uckhannon			hi adhah b
					W	est Virgin	ia	DATE OF THE PARTY	
GEOLOGICAL T	ARGET	FORMAT	TON	ΔΙ	exan	der			
						Land I	feet !	Rotary X /	Cable tools/
							× ×	feet.	
Approxi	mate c	oal sea	am dept	hs: _		Is c	oal being min	ned in the area	? Yes/ No_X/
							and the second		
CASING AND T	te de la constant		M IFICATIO	OMS		FOOTAGE I	NTERVALS	CEMENT PILL-HE	PACKERS
TUBING TYPE	Size	1	Weight	1	Used	1		OR SACKS (Cubic feet)	and the state of
	113/4			Х		90	90	. CTS	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8		23.0	X		1100	1100	CTS	
Production	4/2		10.5	X			5210	1500'	Depths set
Tubing	1/2						5140		
Liners							-		Perforations:
									Top Bottom
				-					
All provino of the W. for _drill	ns bein Va. Cos Ling	g in ac de, the	ccordance location This	e will is her permit	char eby a	pproved expire if			
Deputy		4				ALTERNATION OF THE PROPERTY OF			
		00	V						
						· · · · · · · · · · · · · · · · · · ·			
Tr location has well location the work pro	e coal to be ne unde s exami on, the	rsigne med the well to be	who had withing d coal is proplocation done at	opera osed n has	tor_well been	a declaration (15) days of r WAIVER owner location. If added to the	/ lesse a mine map e mine map. T , the well o	e/ of the xists which con he undersigned perator has con	coal under this well vers the area of the has no objection to aplied with all
Tr location has well location the work pro	e coal to be ne unde s exami on, the	rsigne med the well to be	who had withing d coal is proplocation done at	opera osed n has	tor_well been	a declaration (15) days of r WAIVER owner location. If added to the tion, provided	/ lesse a mine map e mine map. T , the well o	\$ 22-4-20, if a of: e/ of the xists which combe undersigned perator has compared to the combe and the combe an	coal under this well vers the area of the has no objection to aplied with all
Tr location has well location the work pro	e coal to be ne unde s exami on, the	rsigne med the well to be	who had withing d coal is proplocation done at	opera osed n has	tor_well been	a declaration (15) days of r WAIVER owner location. If added to the tion, provided	/ lesse a mine map e mine map. T , the well o	\$ 22-4-20, if a of: e/ of the xists which combe undersigned perator has compared to the combe and the combe an	coal under this well vers the area of the has no objection to
Tr location has well location the work pro applicable r	e coal to be ne unde s exami on, the	rsigne med the well to be	who had withing d coal is proplocation done at	opera osed n has	tor_well been	a declaration (15) days of r WAIVER owner location. If added to the tion, provided nia Code and t	/ lesse a mine map e mine map. T , the well o	\$ 22-4-20, if a of: e/ of the xists which combe undersigned perator has compared to the combe and the combe an	coal under this well vers the area of the has no objection to aplied with all

Form IV-9 (01-80)





January 15, 1981 Well No. State Permit

OIL & GAS DIVISION

OFFICE OF OIL AND GAS

Company Na	me <u>MERT Developmen</u>	t, Inc.	Designated	Agent	Jerry Poli	ng	
Address	Fairmont, W. Va		7		Fairmont,	W. Va.	26554
Telephone	366-9111	1 2	Telephone	9	366-9111		
Landowner	Hale Langford		Soil Cons. D		Little Kar	nawha So	CD
Revegetation	to be carried out byMERT	DEVELOPMENT	, INC.		Jerry Poli	ng	(Agent)
This plan	n has been reviewed byitions become a part of this plan	Little H	anawh	a Car	rett Neu	SCD. All c	
and add	tions become a part of this plan.	(Date)			(SCD A	gent)	
	Access Road			Location			
Structure	Open Ditch Side of Access Rd		Asterial Dir	n Ditch	(1)		
	nual /://	F	age Ref. Manual	Above A	ccess Rd /:	for 1:11	i.
Structure		_(B) S	tructure	•	(2)	and the same	The second second
Spacing		N	Material	174		yes the same	*
	nual		age Ref. Manual				al Seal S
Structure	ν.	_(C) S	tructure		(3)	15)[\V	15111
Spacing			Material		15/ 11 12 3	المعا ليعال	
Page Ref. Ma	nual	P	age Ref. Manual		21		
	All structur	res should be inspec	ted regularly and i	repaired if nec	essary.	N 2 9 19	81

Revegetation

Treatment Area I Tons/acre or correct to pH _ (10-20-20 or equivalent) Hay Mulch_ Tons/Acre Ky 31 Birdsfoot

DEPT, OF MINES Tons/Acre 6.5 or correct to pH ___ 600 lbs/acre (10-20-20 or equivalent) Нау Mulch Tons/acre 30 Ky 31 Birdsfoot Trefoil

Treatment Area II

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Commercial timber will be cut and stacked. All small trees and brush will be removed from site before any grading is begun.

Attach or photocopy section of involved Topographic map. Quadrangle ___

Pullman 7.5'

Legend:

Well Site

- Access Road



WELL SITE PLAN

Legend: Property Boundary

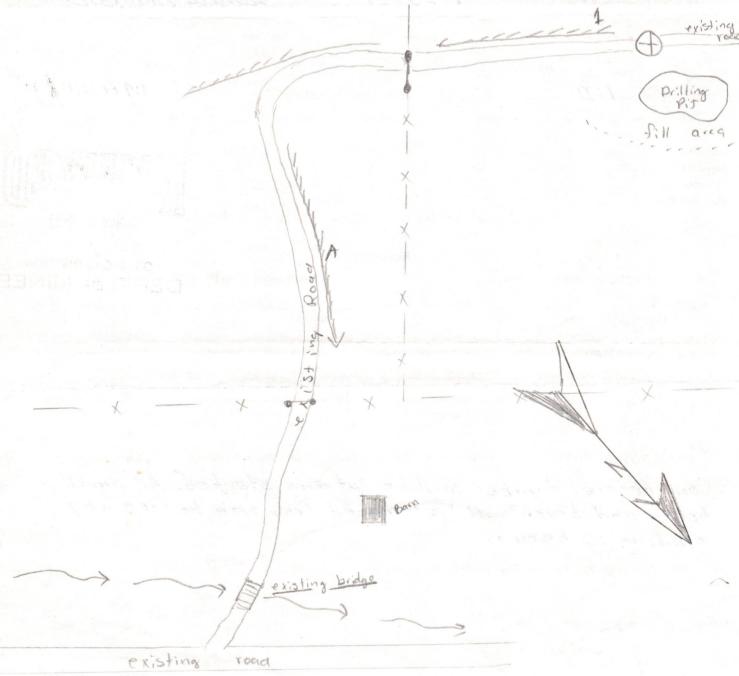
Road = = = =

Existing Fence ---x--x-
Planned Fence --/--/
Stream

Open Ditch -----

Diversion
Spring
Wet Spot
Building
Drain Pipe
Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.



Comments Access road will be an existing farm road area is pastured

and a fence will be erected around well site, after drilling is

completed. Site is on a natural bench on top of ridge- Slope

will be 0-2%.

05/03/2024

ORM IV-2		OFFICE OF OIL	& GAS - DEPARTMENT OF I	MINES Farm Name:	RENEWAL Langford
		OIL AND GAS	WELL PERMIT APPLICAT		State County Per
	(If "Gas",		/ Underground Storage	/ Deep	
OCATION:	Elevation:	1056	Watershed:		
	District:	Union	County: Ritchie	Quadrangle	Pullman 7.5'
ELL OPERA	TOR MERT Deve	lopment, Inc.	DESIGNATED AGENT	Jerry Poling	
Addre	Route 8 -	Box 336-AA	Address	Route 8 - Box	336-AA
	Fairmont,	West Virginia 2	6554	Fairmont, West	Virginia 26554
IL & GAS OYALTY OWN	NER Hale Lang	ford	COAL OPERATOR	*	
Address	Route 1	The Mark The Confidence	Address		
	Pullman,	West Virginia	Paccher to served y oppriore.		
Acreage	91	A being in or	COAL OWNER(S) WIT	H DECLARATION ON	RECORD:
URFACE OW	NER Hale Lang		Name		
Address	Route 1		Address	RI	CEIVED
_	Pullman,	West Virginia			SEP 2 8 1981
-	218			THE RESERVE OF THE PARTY OF THE	
IELD SALE	(IF MADE) TO	:	Address		DIL AND GAS DIVISION WY DEPARTMENT OF MINES
ame Cons	olidated Gas	Supply Corporation			2,000
Address C	larksburg			DECLARATION ON RE	ECORD:
	est Virginia		Name		
		BE NOTIFIED:	Address		
ame Paul	Goodnight				
The u	ndersigned We	11 Operator is e	ntitled to operate for	Oil or Gas Purpo	oses at the above
ocation u	nder a Deed	/ Lease	/ Other Contract X	/ Dated <u>11/10</u>	, 19 <u>80</u> , to the
ndersigned	d Well Operat	or from	Eastern Energy has been recorded:)		
			ffice of the Clerk of	the County Commis	ssion of Ritchie
ounty Wes	t Virginia.	in Lease Book	133 , at Page 233	. A Permit is	requested as follows
PROPOS			l Deeper/ Redril		
			tion/ Perfor		-
* * * * * * * * * * * * * * * * * * * *	Ot	her Physical Char	nge in Well (Specify)_		
		Planned as shown	on the work order on	the reverse side	hereof.
The al	ove named Co	al Operator, Coa	1 Owner(s), and Coal L	essee are hereby	notified that any
biection	they wish to	make or are requi	ired to make by Code	22-4-3 must be f:	iled with the
epartment	of Mines wit	hin fifteen (15)	days after the receip and the enclosed Plat	and Reclamation	Plan have been maile
v Register	red Mail or d	elivered by hand	to the above named Co.	al Operator, Coal	Owner(s), and
ollessees	on or before	the day of the t Charleston, West	mailing or delivery of	this Permit App	lication to the
	IT COPIES OF			T. D	
EOPHYSICAL	L LOGS DIRECT		MER	T Development, In Well Operat	
	OIL AND GAS	East			^ /
	West Virgin		By:	Jersy &	05/03/2024
7				()	OUGO AGIAT

BLANKET BOND

Top Bo								
:suoije					1			Liners
-rolra4		0715					1 1/2	SniduT
ing Form	Above Produc			X	2.01		7/1 7	Production
2et Depths	上 ,005℃	2210		X				Intermediate
	STO	0077	0011	A	33.0		073 0	
SƏZĪS						and an		7
								Fresh Water
Kinds	SID	06	06.	X			7/E II	Conductor
	OR SACKS (Cubic Feet)	llew ml je	I gnilling ro	F besu wel	4 1		əzis	TUBING TYPE CASING OR
UP PACK	CEWENT FILL-	TERVALS .	FOOTAGE IN		CATIONS	OCKAM	BING bE	CASING AND TU
ON /	sel Kreal Yes	T nI beniM g	Is Coal Bein	B 12	Depths:	I Seam	soo eta	Approxim
	.199;	11, - 1	Ilo feet; Sa	. Fresh,	ta Depths	6112 19	tell oto	
slo	ooT eldab _	Rotary X	199J O	11 225	pleted We	mod lo	ч ревұр О	7/U3/3U34 916mi1eA
					•	MOITAMA	RCET FO	сеогост СУ ГСУ
			sinigaiv					
				as Buckl		ONN II)	KACTOK	DEIFFING CONL
		- wata 65 AT	TTED ON FORM	S. W. Jac				
	OMPLETION	IV-35 HPON C	IMATE ONLY:	IS AN EST	SIHL			
							100	

Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code \$22-4-2. (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code \$22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code \$22-4-12a, and (v) if applicable, the consent required by Code \$22-4-8a from the owner of any water well or

dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a well where fracturing or stimulating is to be part of the work for which a pert of the form IV-2 filed in connection

a well where tracturing of stimulating is 20 or part of tiled in connection therewith.

Permit is Habught Mignaluss and the form IV-2 filed in connection therewith.

All provious being in accordance with Chapter 22.

Of the W. Va. Code the lacation is hereby approximately accordance is hereby approximately and the work of the wo

of the W. Va. Code, the location is hereby approved for drilling renewed. This permit shall expire if

Lift clor - Oil & Gas Division

The following waiver must be completed by the Coal Operator and by any Coal Owner or Coal Lessee who has recorded a Declaration under Code \$22-4-20, if the Permit is to be issued within fifteen (15) days of receipt thereof.

The undersigned Coal Operator / Owner / Lessee / of the coal under this well location has examined this proposed well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the Well Operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

By_

T

Date:

NOLE:



REVISED

Date October 15, 1984
Operator's

State of Mest Hirginia Well No. Langford # 5

Beparlment of Mines Gil and Gas Biviston Farm H. L. Langford

API No. 47 - 085 - 5056

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 1056' Watershed	White Oak	Creek		allow_X/
District: Union County			Pullman	7.5
Mert Development, Inc.				
DORESS Fairmont, W				
DESIGNATED AGENT Jerry Poling	Casing	Used in		Cement fill up
DDRESS Fairmont, WV	Tubing	Drilling	in Well	Cu. ft.
SURFACE OWNER H. L. Langford	Size 20-16			
Pullman, W	Cord. 11 3/4			
ENERAL RIGHTS OWNER (SAME)	XXXXXXXXX	17	17	CTS
DORESS	9 5/8			
OIL AND GAS INSPECTOR FOR THIS WORK Sam	8 5/8	1353	1353	CTS
Hersman ADDRESS Smithville, WV 26178	7			
PERMIT ISSUED	5 1/2			
PRILLING COMMENCED 10-19-81	4 1/2		3700'	2350' Fillup
RILING COMPLETED 10-25-81	3			
F APPLICABLE: PLUGGING OF DRY HOLE ON	2			
ONTINUOUS PROGRESSION FROM DRILLING OR	Liners			
EXCENTING. VERBAL PERMISSION OBTAINED	used			
EDLOGICAL TARGET FORMATION Alexander		Dept	h 5250	fec
Depth of completed well 5754' feet	Rotary.	XX / Cable	Tools	
Water strata depth: Presh Damp - 549 feet;	Salt	feet		
Coal seam depths: (None)	_ Is coal	being mine	ed in the	area?
PEN FLOW DATA				
Producing formation Weir - Speechley	Pay	zone dept	h 2316 - (3	3440
west in that open flow Mcf/d	Oil: Ini	tial open	F2444 3	3550)
Final open flow 47.13 Mcf/d	Fin	al open fi	Um.	DF1
The of open flow between ini	tial and fi	nal tests	h-	A
Static rock pressurepsig(surfa	ce measure	ent) after	barr	b.4 d
us applicable one to multiple completio	n)	. •	05/03	3/2024
Second producing formation_	Pav	zone dent	h	
Mct/d	Oil: Ini	tial men	flai	201 2
Final one fla.	Oil: Fin	al open fi	OH.	
Mcf/d			1 800	131 / 1
Final open flowMcf/d Time of open flow between ini Static rock pressurepsig(surface)	tial and fi	nal torte	١.	

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

Perforated Speechley (3453-3485) Foam Frac with 400 sks 20/40 Sand, 1000# KCL: 100# Citric Acid 32 Gal.PEN-5;13 Gal. 15-N Breakdown at 1850; INIS at 1100; Avg Rate 24 BRM Avg Press 2600 PSI 2 Pumps used Perforated Weir (2367-2419) Foam Frac with 400 sks 20/40 Sand; 1000# KCL 100# Citric Acid 32 gal PEN 5, 13 gal. 15-N Breakdown at 2900; INIS at 1900; Avg. Rate 28 BPM; Avg. Pressure 2800 PSI, 2 Pumps used.

WELL LOG

FORVAJION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	EDMARKS Including indication of all free and salt water, coal, oil and coals
Clay Gray Shale Red Rock Sand Red Rock/Shale White Sand Red Rock White Sand Red Rock Shale & Red Rock Shale & Red Rock Gray Shale Red Rock & Shale Shale White Sand Light Brown Sand W/Shale Shale White Shale Shale & Red Rock Sand Red Rock & Shale Limey Shale Shale & Red Rock Sand Shale Lime Shale Red Rock Gray Shale & Red Rock Sand Shale Lime Shale Red Rock Gray Shale & Red Rock Sand Shale Lime Shale Red Rock Gray Shale & Red Rock Sand Shale Lime Shale Red Rock Gray Shale & Red Rock Sand Shale Shale & Red Rock Sand Shale Big Lime Big In jun Squaw Weir Berea Sand/Shale Sth Sand Sand/Shale Rayard Sand/Shale Rayard Sand/Shale Rayard Sand/Shale Rayard Sand/Shale	0 15 60 70 75 90 100 105 145 150 160 180 200 225 450 530 575 610 660 695 780 850 1000 1085 1130 1235 1245 1520 1570 1790 1898 2134 2316 2444 2494 2740 2760 2862 2906	15 60 70 75 90 100 105 145 150 160 180 200 225 450 530 575 610 660 695 780 850 1000 1085 1130 1235 1130 1235 1245 1520 1570 1790 1898 2134 2316 2444 2494 2740 2760 2862 2906 2936	Hole Damp @ 540' Still Dusting

(Attach separate sheets as necessary)

Co	ontinental Reserves C	il Company		
Wel:	1 Operator	05/0	13/202	4
By:	Thomas P. Sanders /	Manager Oil	& Gas	Production
Date:	October 15, 1984			

here: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed prological recent of all fermations, including war!, encountered in the defilling of a well."

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

(ATTACHMENT) - 085-5056

WELL LOG

FORMATION COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and coals
Elizabeth Sand/Shale Speechley Sand/Shale Riley Sand/Shale TOTAL DEPTH		2936 2948 3440 3550 4304 4316	2948 3440 3550 4304 4316 5754 5754	

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 83-3056			Oil or	Gas Well	
Company MERT DEVELOPMENT	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PAC	CKERS
Address	Size				
Farm LANGFORD	16			Kind of Pa	icker
Well No.	13			Size of	
District UNION County Pitchia	81/4			5126 01	
Drilling commenced	65/8			Depth set	2
Drilling completedTotal depth	5 3/16				
Date shot Depth of shot	3				om
Initial open flow/10ths Water in Inch	Liners Used				
Open flow after tubing /10ths Merc. in Inch				Perf. botto	om
VolumeCu. Ft.	CASING CEME	NTED 8 3	SIZE 135	2 No. FT.	10-21-81 Day
Rock pressure lbs. hrs.	NAME OF SEF				
Dilbbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	АТ	FEET	INCHE
Fresh water <u>feet</u> <u>feet</u>					
Salt water <u>feet</u> <u>feet</u>					
Drillers' Names)				
Remarks:			REC	VIES	ED
			0	CT 27 19	81
			OIL	AND GAS D	VISION

10-21-81

De mare

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY				ADDRESS			
FARM	Committee of Committee or Committee of Committee or Commi		DISTRIC	T	COUNTY		
Filling Material Use	d						
ainer	Locat	ion	Amount	Packer	Location		
PLUGS I	JSED AND	DEPTH PLACED		BBIDGER	CARIN	G AND TU	BING
CEMENT-THICKNES	15	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
2		ar nature ration consequences are the operation gave the system operational galletines.	A STATE OF THE STA				
2							
7							
						A	
rillers' Names							No minima de la compansa de la comp
emarks:	-						
		W. 17					

05/03/2024

DEPARTMENT OF MINES



NOV - 9 1981



INSPECTOR'S WELL REPORT

Permit No. 85-9086			Oil or (KIN	Gas Well
Company Mert Development	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address	Size			Land September 1997
Farm Sangford	16			Kind of Packer
Well No	13			Size of
District Unien County Ditchie	81/4	our Service		Size of
Drilling commenced	65/8			Depth set
Drilling completedTotal depth	5 3/16			D. of the
Date shotDepth of shot	2		4	Perf. bottom
Initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing/10ths Merc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEMEN	NTED	_SIZE	No. FTDate
Rock pressure lbs. hrs.	NAME OF SER	VICE COMPA	NY	
bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	AT	FEETINCHES
Fresh waterfeetfeet	FEET_	INCH	ES	FEETINCHES
Salt water feet feet	FEET_	INCH	ES	FEETINCHES
Orillers' Names				(Print)
Remarks: T.D. 5750' PLUBGEO	BACK TO	3700	10	0-25-81
T.D. 70 6300	CEMEN!	= ALEX	ANDER	FORMATION
10-27-81 5200 TO 3700 10-27-81 4/2" CASING CEN	NENTED AT	3700'	0	05/03/2024 Lo Moce

DEPARTMENT OF MINES

OIL AND SAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

ermit Newscare and a second and		ENDER OF THE STATE		Wei	I No.	
OMPANY			ADDRESS			diam't
ARM		DISTRICT	CO	UNTY		
illing Material Used						
	ation	Amount	Packer	Location		
PLUGB USED A	ND DEPTH PLACED		BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
the state of the s				(C.)		Sanday 12
Company of the Compan				Commence of the American	and the second	
			1 108 h sec			
- Market States States			done to		ens, introduction	
					Eggs and a second of	
AND THE STATE OF T					April 12	64 4 (142 - 1 44 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144
	WAR CO.		er was			
illers' Names						
e de la desta de la composition della compositio						and a proper way
emarks:						

STATE OF WEST VIRGINIA

REPARTMENT OF MINES

OFFICE OF OIL AND GAS

CHARLESTON 25305

FIRAL INSPECTION REPORT

INSPECTORS COMPLIANCE REPORT



MERT DEVELOPMENT

ompana: CORTINENTAL RESERVES

arm: LANGFORD

4+ Well: 5

Permit No. 47- B5-5056OIL & GAS DIVISION
Counts:RITCHIE
DEPT. of MINES

Date

			Eller Hold E	
		In Comr	liance	
:le	- Description	Yes	ок	
	cation prior to starting work			
	d before drilling to prevent waste			
	ressure drilling			
	ed permits at wellsite			
	te Fresh Water Casins			
	te Coal Casing			
	te Production Casing			
	te Cement Strength			
,05 Cement				
	ined Access Roads			
	ary Equipment to Prevent Waste			
2 101 101 10 10 10 10 10 10 10 10 10 10 1	med Drilling Pits			
	face or Underground Pollution		** ** ** ** ** ** ** **	
	ements for Production & Gatherins Pircli	nes		
	ecords on Site		** ** ** ** ** ** ** **	
	ecords Filed			
∍05 Identi	fication Markings	<i>V</i>		
HAVE INSPE		END THAT IT BY SIGNED MALE DATE 5-22	Amdelular	Î.
th Charter	cord was received and reclamation requir 22; Article 4; Section 2; the above wel the life of the well.			ance
		Admin.	istrator	
		May	31, 1985	

FERC-121

MAY 2 4 1982.

1.0 API well number (If not available, leave blank, 14 digits i	47-085-50	DEPT UF MINE
2.0 Type of determination being sough: (Use the codes found on the front of this form.)	1 103 Section of NGPA	Category Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)		3485feet
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	MERT Development, Inc. Route 8 - Box 336-AA Fairmont, Cav	Seller Code W. Va. 26554 State Zip Code
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Union Field Name Ritchie County	- W. Va. State
(b) For OCS wells:	Date of Lease: Mo. Day Yr.	Block Number OCS Lease Number
(c) Name and identification number of this well: (35 letters and digits maximum.)	Hale Lang	ford #1
(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)		
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank,)	Consolidated Gas Supply	Corporation Buyer Code
(b) Date of the contract:	Mo.	Day Yr.
(c) Estimated annual production		35MMc1.
	(a) Base Price (b) Tax (S/MMBTU)	(c) All Other (d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)		
8.0 Maximum lawful rate (As of filing date. Complete to 3 decimal places.)		
9.0 Person responsible for this application Agency Use Only Durin Received by Juris Agency MAY 9.4 1982 Light Received by FERC	Date Application is Completed	Gerlog ist Title 366 GIII

FT/98/08/06/2/2

PARTICIPANTS: NELL OPERATOR: Mert Development, Inc.	BUYER-SELLER COU
other: Consolidated	004030
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 920524-103-085: 5656 Usa Above File Number on all Communications Relating to Determination of this Well	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
1. FERC -121 Items not completed - Line No. 7.0 + 8.0	011
2. IV-1 Agent Jerry Poling	77.12
3. IV-2 Well Permit	
4. IV-6 Well Plat	
5. IV-35 Well Record ✓ Drilling ✓ Deepening	_
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	
7. IV-39 Annual Productionyears	
8. IV-40 90 day Production Days off line:	-
9. IV-48 Application for certification. Complete? \(\square\$	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? ✓ Aff	
18-28. Other: Survey Logs Geological Charts	
Structure Map 1: 4000 Map Well Tab	ılations
(5) Date commenced: 10-19-81 Date completed 10-25-81 Deepend	ed
(5) Production Depth: 3453-85, 2367-3419	
(5) Production Formation: <u>Speechley</u> , Weir	
(5) Final Open Flow: NA	
(5) After Frac. R. P. NA	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(8) Line Pressure: PSI	G from Daily Rep.
(5) Oil Production: From Completion Report	
0-17. Does lease inventory indicate enhanced recovery being done NO	
O-17. Is affidavit signed? Notarized? Notarized?	5/03/2024
oes official well record with the Department confirm the submitted information	
dditional information Does computer program confirm?	
as Determination Objected to By Whom?	
7-5	

2-78].				February 76,
		DEPARTMENT OF HIN	ES, OIL AND CAS DIVISION	Operator's Well No. Hale Langfor
				API Well No. 47 - 085 - 50
		STATE APPLICATION	FOR WELL CLASSIFICATION	State County Ferr
				Previous File No. (If Applical
LL OPERATOR	MERT De	evelopment, Inc.	DESIGNATED ACTION	Jerry Poling
		ox 336-AA		8 - Box 336-AA
- 51/1		Vest Virginia 26554		ont, West Virginia 26554
Purchase C	ontract No		and Date	
er Chart Co	de		(Month, day and	year)
e of First	Purchaser	Consolidated Gas	Supply Corporation	
		P. O. Box 2450 (Street	or P. O. Box)	
			W. Va.	26301 (Zip Code)
C Seller Co	de		FERC Buyer Code	
E OF DETERM			100	
			121.) Section of NGPA on is the result of enhar	Category Code
Tecove	ery technol	logy.		iced
(3) Determ	aination of	f a seasonally affecte	Jerry Poling	Geologist
			Name (Print)	Title
			Signature	
			Route 8 Box 3	36-AA
			Fairmont, W.	
			204) 366-9111	te (Zip Code)
			Area Phone Num	ber
tificate of	Proof of	Service to Purchaser)	Code	
	1			
of the above	ve to be co	ompleted by the Operati	or/Applicant)	
	d by located	distant toney Pro		
haser, if kn	oun).	ictional Agency. Exe	cuted copy to be returned	to Operator/Applicant and
as meeting	the requir	rements of Section	production is the result	rification of the above described atural Gas Policy Act of 1976, c of-enhanced recovery technology (fected well under Section 108 of (%)
All in	nterested p	Cas Division in Charle		y of 19 at
This A	pplicarion	is assigned File No.	-	
led to cert	ification	as claimed under the he will be made at the	ed indicates the well Satural Gas Policy Act (N time appointed for a pub	is. [] is not GPA). A review of this evidence lic hearing or as soon thereafter
Unless a hearing determinati	will not be	s are timely filed or e held except on ex pa	a request for a hearing orte motion of the depart	is made within fifteen (15) ment and the matter will
			WEST VIRGINIA DEFARTME	NT OF MINES
			-	Th. 10
	MAY 2.4	1 1092		Director 05/03/202
recaived by	1777	± 1302	By	- 00/00/202
dictional A			Title	
				•

Sate _ February 26, ___. 1982___.

TORM IV-48UC

PORM	'IV-	54WC
[12-	78]	

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

Date	February	26. 191	32
Operator' Well No.	s Hale	Langford	#1
API Well No. 47 State	- 085 County	- 5056 Permit	

05/03/2024

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

NGPA Section 103

	DESIGNATED AGENT
	ADDRESS Route 8 - Box 336-AA
WELL OPERATOR MERT Development, Inc.	Fairmont, West Virginia 26554
ADDRESS Route 8 - Box 336-AA	Watershed White Oak Creek
Fairmont, West Virginia 26	5554 Dist. Union County Ritchie Quad. Pullma
CAS PURCHASER Consolidated Gas Suppl	Ly Corpas Purchase Contract No.
	Heter thart tode
Clarksburg, W. Va. 26301	Date of Contract
* * * * * * * *	* * * * * * * * * *
	10 1001
Date surface drilling was begun: Oct	ober 19, 1981
Indicate the bottom hole pressure of the	well and explain how this was calculated:
VCI C	266#
BHP = Pwe	
AT	FFIDAVIT
reservoir from which gas is or will be pro in commercial quantities or on which surfa was capable of producing gas in commercial the best of my information, knowledge and	, having been first sworn according to law state that is determination is sought was begun on or after February 19 or federal well spacing requirements and the well is not the time surface drilling began, which was applicable to the oduced and which applied to any other well producing gas acc drilling began on or after February 19, 1977, and which quantities. I state, further, that I have concluded, to belief, that the well for which this determination is sought I am not aware of any information not described in the is conclusion.
	C w
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	$\langle A \rangle / \rangle$
STATE OF WEST VIRGINIA.	
COUNTY OF MAY, DP , TO WIT:	
I. ROBERT R. TIPTON. a	Notary Public in and for the state and county aforesaid,
do certify that Jerry Poling, whos	e name is signed to the writing above, bearing date
the 24 day of FCb . 1982.	has acknowledged the same before me, in my county aforesaid.
Given under my hand and offic	tial seal this / day of mArch, 1982
My term of office expires on	the 5 day of 6 , 199/.
[NOTARIAL SEAL]	Rhut R. Tiplom NOTATY PUBLIC
	~

MAY 24 1982

1.0	APT -all number	!	47-	085-5056		
	(If not evailable, leave blank, 14 digits i	1				OIL & GAS DIVISION
2.0	Type of determination being sought (Use the codes found on the front of this form.)		107 Section of N	A CONTRACTOR OF THE PARTY OF TH	Category Code	PT. OF MIN
3.0	Depth of the deeperst completion location: (Only preded if sections 103 or 107 in 2.0 above.)			3485	feet #	
4.0	Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Route	8 - Box 336	Inc.		Seller Code
50	Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field in a me.):	Union Fold Nam Ritchi County			- W. Va State	-
	(b) For OCS wells.	1				
		Area Nam	ę .	en control de aguer des seus de l'été de la control de l'été de l'été de l'été de l'été de l'été de l'été de l	Block Numbe	7
		1 1	Date of Lea	se:		
	•		Mo. Day		OCS Lease Number	-
	(c) Name and identification number of this well: (35 letters and digits maximum.)		Hale	Langford	#5	_
	(d) If code 4 or 5 in 2.0 above, name of the reservoir (35 letters maximum.)				•	_
6.0	(a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Consoli	dated Gas 🐔	Supply Corpo	ration	Buyer Code
	(b) Date of the contract.		-	Mo. Day		
	(c) Estimated annual production		i.	35	MMcf.	,
			(a) Base Price (S/MMBTU)	(b) Tax -	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
	Contract price: (As of filing date: Complete to 3 decimal places.)					
	Maximum lawful rate (As of filing date. Complete to 3 decimal places.)					
9.0	Person responsible for this application	_	Join Polin		C)	. 1
D	Adency Use Only Received by Juris Agencs	iv.er-m	1017 1010	Ö	Title O	+21
1 have	Rounsed by FERC		80		34-9111	
		-		-	75 1111	

ARTICIPANTS: DATE: NOV 121982	BUYER-SELLER COD
WELL OPERATOR: Mert Development	- Problema
FIRST PURCHASER: Columbia Trans. Corp.	004030
OTHER: Consolidated	
W. Va. Department of Mines, Oil & Gas Division	
WELL DETERMINATION FILE NUMBER	
920524-107-085-5056 QUALIFIED	
Use Above File Number on all Communications	
Relating to Determination of this Well	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO.	
1. FERC -121 Items not completed - Line No. All 7.0+	8,0
2. IV-1 Agent Jerry Poling	
3. IV-2 Well Permit	,
4. IV-6 Well Plat	
5. IV-35 Well Record Drilling Deepening	ng
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	Ratio
7. IV-39 Annual Productionyears	
8. IV-40 90 day Production Days off line:	
9. IV-48 Application for certification. Complete?	
0-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? / Af	fidavit Signed
8-28. Other: Survey Logs Geological Charts	
Structure Map 1: 4000 Map Well Ta	bulations
(5) Date commenced: 10-19 -SI Date completed 10-25.81 Deepe	ned
(5) Production Depth: 3 4 5 3 = 85, 2367-2419	
(5) Production Formation: Speechley Weir	
(5) Final Open Flow: NA	
(5) After Frac. R. P. NA	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(8) Line Pressure:	SIC from Dadle D
(5) Oil Production: From Completion Report	Trom bally kepo
-17. Does lease inventory indicate enhanced recovery being done NO	
-17. Is affidavit signed? Notarized?	05/03/2024
es official well record with the Department confirm the submitted information	
ditional information Does computer program confirm?	7 63
s Determination Objected to By Whom?	
	75
	/3

Title

e received by isdictional Agency

E OF STATE OF LINE

DEPARTMENT OF MINES, OIL AND GAS DIVISION

Da:	une	2,	198	2	
Coer Well	No _		Hale	Langford	#5

AP1 Well - 085 - 5056

MELL TLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE

	MGPA Section	157
-		DESIGNATED AGENT Jerry B. Poling
		ADDRESS Rt. 8 Box 336-AA
		Fairmont, W.Va. 26554
	DR Mert Development, Inc.	LOCATION Elevation 10561
		Watershee White Oak Creek
	8 Box 336-AA rmont, W.Va. 26554	Dist. Union County Ritchie Guar Pullman
		Gas Purchase
	Consolidated Gas and Supply	Contract %o
-	O. Box 2450	Meter Chart Code Date of Contract
Clarks	burg, W.Va. 26301	Date of Contract
a v	* * *	
Date surface	e drilling began October 19, 1	
Indicate the	e bottom hole pressure of the well and	explain how this was calculated 266#
	BHP = Pwe XGLS	
*	-	
		•
	AFF IDA	VIT .
port describe snale footage any informat	ed in subparagraph (3)(ii)(B); I have demonstr	first sworm according to law, state that, I have calculated is not Devrnian shale as indicated by a Gamma Ray index of (i) or (3)(ii)(A) had been filed, or as indicated by the related that the percentage of potentially disqualifying nonthe gross Devonian age interval; and I have no knowledge of inconsistent with a conclusion that the well qualifies as a
STATE OF WE	ST VIRCINIA	
COUNTY OF	Maxica TO WIT	
COUNTY OF S		tary Public in and for the state and county aforesaid
do certify	11 11 11 05	acknowledged the same before me, in my county
the dia	v of flike U. 19 has	acknowledged the same before me, in
aforesaid		360. 0
	Given under my hand and official sea	al this do say of
	My term of office expires on the	day of the market
1		A Muhan
		actan suche
[NOTARIAL S	SEAL;	ained in Arma Alemant
	Minu	05/03/2024

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

a]

Opera	cor: Me	rt Development, Inc.	Agent	Jerry Poling
Type	Determina	tion being sough	ht - 107 (Devor	nian Shale)
		47-085-5056		Tame: Langford #5
West ' Refer	Virginia (ences: SJ	Office of Oil at JA File No.	nd Gas County	?:Ritchie
Vo	1 Pa	ge Line _		
Ι.	(0) intervale wir	b Compa Barrie	with the (a) Shale Bas .7 x (Shale Base Line), its less than 0.7 x (Sh uded with this analysis
II.	Camma Ray	elevation indi	ces:	7013
	A.	Shale Base Li	ne (API Units)	Scale 0 - 250
		 GR Value Remarks: 	at Ease Line =	* API Units
11.]		 GR Value = Calculation 		Value at Base Line its lue at Base Line) *) = 120 API Units (Value at Base Line):
	Inte	erval	Thickness	
Ē	rom**	To×**	of Interval Feet	Feet of less than* 0.7 (Shale Base Lin Feet
	2494	5754	3260	36
	Total De	evoniam Interval	3260	
tal L	ess Than (0.7 (Shale Base)	,	05/03/2024 36
Less 7	Than 0.7 ((Shale Base Line	e) = 36 x 10	
			3260	

*Marked on log included with analysis.

Top of Devonian Section Recorded on First Interval in this Column.

in this Column.

CALCULATION OF SHALE BASE LINE

Footage		API			
	Scale 0 - 250				-
2500 - 2600 2600 - 2700 2700 - 2800 2800 - 2900 2900 - 3000 3000 - 3100 3100 - 3200 3200 - 3300 3300 - 3400 3400 - 3500 3500 - 3600 3600 - 3700	Scale 0 - 250	162 160 160 162 160 160 162 162 162 145 170			
3700 - 3800 3800 - 3900 3900 - 4000 4000 - 4100 4100 - 4200 4200 - 4300 4300 - 4400 4400 - 4500 4500 - 4600 4600 - 4700 4700 - 4800		175 162 170 175 175 175 175 175 175 180 187			
4800 - 4900 4900 - 5000 5000 - 5100 5100 - 5200 5200 - 5300 5300 - 5400 5400 - 5500 5500 - 5600 5600 - 5700		187 175 175 180 150 175 180 187 187 5460 ÷	32 = 171	Shale Base	Line

