

1)	Date: XXX	k Sep.	t. I	, 1983
2)	Operator's Well No	**	843	ORNEY 2(B)
3)	API Well No.	47	013	3645
		State	County	Permit

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL T	YPE: A	Oil	D d	as)	V	DNS (IE ANY) I	AND CONDITIES	OFFICATIONS A	PERMIT MO
5) LOCATION	ON: FI	evation.	1083.	96'	٨	/ Underground	Laurel Shoal	/ Deep	_/ Shallow <u>X</u> /)
	Di	strict:	Lee			County: Ca	Thomn	Quadrangle	7.5' Arnoldsburg
6) WELL O	PERATOR	Ster1	ing Dr	illi	ng &	Prod. Co., I	nc .DESIGNATED	AGENT Harry	L. Berger, Jr.
Addre	ss	360 M	ladison	Ave	. Fif	th Floor	Address	710 Vi	rginia St., E.
			ork, N		ork	10017		Charle	ston, W.V. 25300
8) OIL & G	_		BE NOTI	FIED			9) DRILLING CO		
	Deo M						NameUNK	CNOWN AT THIS	TIME
Addres		. 1 Bo					Address	AND CONTRACT MARK	Charles Aven Chilly Bottle (Children, Children,
10) PROPOS			e, W.V	11					
10) PROPOS	ED WELL	WORK:	Drill	THE RESERVE AND ADDRESS OF THE PARTY OF THE	_/ Drill	Park to the property of the park to the pa		/ Stimulate	ment had Jan [the later
			Plug of	ff old	formation	n/ Perfor	ate new formation_	11/	
11) GEOLOG	ICAI TAR	GET FOR	MATION	nysical	OWN CI	n well (specify)		SEP	2 8 1983
	ated depth							0 12.1	2 0 1303
								6	
	oximate coa						al heing mined in the	reet. Oil &	GAS DIVISION
15) CASING							ar oeing mined in the	area? Yes PT.	OF MINES
CASING OR TUBING TYPE	1	SPEC	IFICATIONS	3	- 1	FOOTAGE II	NTERVALS 1	CEMENT FILL-UP	PACKERS
TOBING TIPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	PACKERS
Conductor								(Cubic reet)	Kinds
Fresh water	9 5/8	LS	33#	X		350'	350-	To Surface	0 11
Coal								TO Surrace	Sizes
Intermediate	7"	J-55	20#	X		22901	72901	100 sks	
Production Tubing	4 122	ERW	10.5#	X			5400	250 sks	Depths set
Liners						EUND HAD B	ORBO		
				247					Perforations:
	An . The				7.08	BR 290.09TH INDA	dates of circlin	is to second to	Top Bottom
	Date				A1				
							elala e		
				Salarsi	te en servi				
					(OFFICE USE O	NLY		Application received.
					1	DRILLING PER	RMIT		
ermit number_	47	-013-3	645						Well work started
			16		100			D .	r 19 19 83
his permit cover	ring the wel	l operator	and well	locatio	n shown	below is evidence of	permission granted	to drill in accordance	e with the pertinent legal re-
o. 8) Prior to t	to the con	ion of ros	ontained he	erein ai	nd on the	reverse hereof. Not	ification must be give	en to the District Oil	e with the pertinent legal re- and Gas Inspector, (Refer to
strict oil and ga	s inspector	24 hours	before acti	ual per	mitted wo	ork has commenced.	In addition, the well	operator or his contr	and Gas Inspector, (Refer to actor shall notify the proper
ne permitted wo	rk is as des	cribed in t	he Notice	and Ar	pplication	. nlat and reclamate	on plan subject to	1.0.	d conditions specified on the
						, p-a-, and recialitat	on plan, subject to a	iny modifications and	conditions specified on the
ermit expires	00	ctober	19, 19	985		unless well w	ork is commenced pr	ior to that date and pr	rosecuted with due diligence.
								1	
Bond:	Agent:	PI	at:	Casing	1 1	Fee			OTHER INSPECT FOR
DB	OK	SAS	13	1	1	550		11	Resyon
Transfer to		1	46	/		33	1	11,	1
				-			1-1	11	
OTE: Keep on							/	trator, Office of Oil	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Reason:

Reason: _

SE APEWEILNO





JATE OF WEST PIRCINIA OFFICE USE ONLY PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK 8) OH & OAS INSPECTOR TO BE NOTHIED II) GEOLOGIC VETARUETIORMATION, LEG OFFICE USE ONLY This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections. Date(s) Date Follow-up inspection(s) Application received DRIKLING PERMIT Well work started Completion of the drilling This permit covering the well appearson and well togetion shown below; evidence of permission granted to drill in accordance with the permits of quite ments, subject to the conditions contained because and on the reverse hereof statut colling to the lightest to the conditions of tends of the subject of the permits of the subject of the permits of the subject of the permits of th The permitted work is as described in the Notice and Application, place and reclamation plan, subject to any modifications an Reclamation completed OTHER INSPECTIONS

See the reverse shie of the APPLICANT'S COPY for instructions to the well operator.

Permit expires

Agent:

·Plat:

Casing

Bond:

DRILLING CONTRACTOR:



1)	Date:	September	1	19 83

State

2) Operator's 843

unless drilling is commenced prior to that date and prosecuted with due diligence.

Well No. _ 3) API Well No.

013 3645 County Permit

STATE OF WEST VIRGINIA OF MINES, OIL AND GAS DIVISION

UNKNOWN	51
UNKNOWN	DEPARTMENT
AT THIS TIME	

OIL AND GAS WELL PERMIT APP	LICATION
-----------------------------	----------

4) WELLTYPE: A OII "Car", Production X Underground storage Deep Shallow Y watershed: Laurel Shoal Run Cuntry Laurel Shoal Run (Cartino) Elevation: LIOSA, 95	Section Desprice	*X
B (II 'Cas' , Production X Underground ionage Deep Shallow Y Underground ionage Laurel Shoal Run District Lee County	Second color	wX
watershed. Laurel Shoal Rou District. LBB District. District. DesignAreDackent Mew York, New York 10017 7) OIL & CAS DISTRICT. DISTRICT. DISTRICT. DESIGNATED Acaderss 310 Virginia St., E. Charleston, W.V. 2537 8) OIL & CAS DISTRICT. DIS	District: Lee District: Lee County: Calhoun Quadrangle: 7.5' Arn Outlet Operator Sterling Drilling Prod. Co., Inc. 11) DESIGNATED AGENT Address 360 Madison Ave. Fifth Floor New York, New York 10017 70 OIL & GAS ROYALTY OWNER Address General Delivery Acreage 122 8) SURFACE OWNER Charles A. Newhart Address P. O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address Address Rt. 1 Box 5 Sandridge, W.V. 25274 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Plug off old formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5 +00 Specific Acreage 19, 8 Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feet; salt, feet. 19) Approximate coal seam feeths: Fresh, feeth filling feeth feeth filling feeth feeth filling feeth feeth filling feeth filling feeth filling feeth filling feeth filling feet	* _ X
Dillerie: Lee County Galhoun Quadrangie: 7,3 Annoldsbur Address 360 Madison Ave. Fifth Floor New York, New York 10017 OIL & CAS 360 Madison Ave. Fifth Floor New York, New York 10017 OIL & CAS 360 Madison Ave. Fifth Floor New York, New York 10017 OIL & CAS 360 Madison Ave. Fifth Floor New York, New York 10017 OIL & CAS 360 Madison Ave. Fifth Floor Address Charleston, W.V. 2530 OIL & CAS 361 Morph Address General Delivery Address P. O. Box 351 Milliamstown, W.V. 26187 Address Rt. L. Box 5 Dell & Gashell N.C. September 12, 64 Gashell N.C. September 12, 65 Milliamstown, W.V. 25274 IS PROPOSED WORK: Drill X Drill desper Redrill Fracture or stimulate Private Address Rt. L. Box 5 Dell & Gashell N.C. September 12, 64 Milliamstown, W.V. 25274 IS Approximate ware strate depth of completed well, 64 Milliamstown Shall Frest salt, feet, 19 Approximate ware strate depth of completed well, 64 Milliamstown, W. September 12, 64 Milliamstown, W. September 12, 65 Milliamstown, W. September 13, 65 Milliamstown, W. September 14, 64 Milliamstown, W. September 14, 64 Milliamstown, W. September 15, 65 Milliamstown,	District: Lee County: Calhoun Quadrangle: 7.5 Arn County: Calhoun Quadrangle: 7.5 Arn Rew York, New York 10017 7) OIL & GAS ROYALTY OWNER General Delivery Address ROYALTY OWNER General Delivery Address Grantsville, W.V. 26147 Acreage 122 8) SURFACCE OWNER Charles A. Newhart Address P. O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address Royalty Maddress Address Address Address It Coal Lessee With Declaration on Rei Oil & Gasino Wissian Completed well, Septiment of Coll & Gasino Wissian Completed well, Septiment of Coll & Gasino Wissian Completed well, Septiment of Completed well, Septiment of Completed well, Septiment of Completed well, Septiment of Conductors and Con	
6) WELLOPERATOR Stepling Drilling & Prod. Co., Address 360 Madison Ave. Fifth Floor Address 360 Madison Ave. Fifth Floor Address Charleston, W.V. 2530 New York, New York 10017 7) OIL & CAS ROYALTY OWNER BOB Morgan, et al Address General Delivery Grantsville, W.V. 26147 Address P.O. Box 351 Address Rt. L Box 5. Sandridge, M.V. 25274 19) FROPOSED WORK: Drill & Drill deeper Properties of Madison Propertie	6) WELL OPERATOR Step 11 Ining Drilling & Prod. Co., Inc. 11) DESIGNATED AGENT Harry L. Berge Address New York, New York 10017 7) OIL & GAS ROYALTY OWNER Address General Delivery Grantsville, W.V. 26147 Acreage 122 8) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address Williams town, W.V. 26187 Address R. 1. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Plug General Gen	oldsbur
Address JOU FORL SUPPLY New York, New York 10017 Olt & CAS New York, New York 10017 Olt & CAS New York 10017 Olt & CAS ROYALTY OWNER BOD MOrgan, et al General Delivery Grantsville, W.V. 2537 Address General Delivery Grantsville, W.V. 25147 Address General Delivery Grantsville, W.V. 25147 Address General Delivery Grantsville, W.V. 25147 Address P. O. Box 351 Williamstown, W.V. 26187 Address P. O. Box 361 Williamstown, W.V. 26187 Address P. O. Box 361 Williamstown, W.V. 26187 Address Williamstown, W.V. 26187 Address P. O. Box 361 Williamstown, W.V. 26187 Address Williamst	Address New York, New York	r. Jr.
New York, New York 10017 Charleston, W.V. 2537	New York, New York 10017 New York New York 10017 Charleston, W.	t., E.
ROYALTY OWNER General Delivery Address General Delivery Grantsville, M.V. 26147 Actress 122 S) SURFACE OWNER P. O. BOX 351 Actress 121 Actress 121 S) SURFACE OWNER P. O. BOX 351 Actress 121 Actress 121 Actress P. O. BOX 351 Actress 121 Actress P. O. BOX 351 Actress 121 Actress P. O. BOX 351 Actress P. O. BOX	ROYALTY OWNER Address General Delivery Grantsville, W.V. 26147 Acreage 122 13) COAL OPERATOR UNOPERATED Address P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Plug off old formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5400 Sep 2 by Sep 2	
Address General Delivery Grantsv1Tle, M.V. 26147 Actrage 122 5) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 Actrage 121.67 Actrage 121.67 Actrage 121.67 Address P.O. Box 351 Actrage 121.67 Name Del Mace Address III Sox 5 Sandridge, M.V. 25274 10) OIL & GAS INSPECTOR TO BE NOTIFIED OIL & GAS-MINISON Name Den Mace Address Rt. I Box 5 Sandridge, M.V. 25274 11) PROPOSED WORK: Drill A. Drill deeper Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE Free Standard depth of completed well, 5 + 0.0 Feet Standard depth of completed well, 5 + 0.0 Feet Standard depth of completed well, 5 + 0.0 Feet Standard depth of completed well is approximate even trata depth of completed well. See Standard depth of completed well. See Standard depth of completed well is coal being mined in the area? Yes. No X CASINO AND TUBING PROGRAM CASINO OR STUDIOL TYPE Size Origin New Used For drilling Left in well (Specify) This warr I 9 5/8 LS 33# X 350 350 TO Surface Size Origin New Used For drilling Left in well (Specify From Standard	Address General Delivery Grantsville, W.V. 26147 Acreage 122 13) COAL OWNER(S) WITH DECLARATION ON Name P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 Name PELD SALE (IF MADE) TO: Address Address Address Acreage 121.67 Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED Work: Drill X Drill deeper Plug off old formation Perforate new formation. Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5 4 00 18) Approximate water strata depths: Fresh, feet: 19) Approximate coal seam depths: 19) Approximate water strata depths: Fresh, feet: 19) Approximate coal seam depths: 19) Approximate water strata depths: Fresh, feet: 19) Approximate coal seam depths: Fresh, feet: 19) Approximate of the feet: 19) Approximate of the feet: 20) Associated from the feet: 21) Approximate of the feet: 22) Acting the feet: 23) Acting the f	
Actreage 122 8) SURFACE OWNER Charles A. Newhart Actreage 121.67 Actreage 121.67 PITITIANSTOWN, W.V. 26187 Actreage 121.67 Actreage 122.64 Actreage 123.64 Actreage 124.67 Actreage 125.64 Actreage 126.65 Actreage 127.65 Actreage 128.64 Actreage 129.64 Actreage 120.06 Actreage 120.06 Actreage 120.06 Actreage 121.67 Actreage 121.67 Actreage 121.67 Actreage 122.64 Actreage 123.64 Actreage 124.67 Actreage 125.67 Actreage 126.67 Actreage 126.67 Actreage 127.67 Actreage 128.67 Actreage 129.67 Actreage 120.68 Actreage 120.68 Actreage 120.68 Actreage 121.67 Actreage 121.67 Actreage 122.68 Actreage 123.68 Actreage 124.67 Actreage 125.68 Actreage 126.68 Actreage 126.68 Actreage 126.68 Actreage 127.68 Actreage 128.68 Actreage 128.68 Actreage 128.68 Actreage 129.68 Actreage 120.68 Actre	Grantsville, W.V. 26147 Acreage 122 8) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5400 Feet 18) Approximate vater strata depths: Fresh, feet: salt, feet. 19) Approximate vater strata depths: Fresh, feet: salt, feet. 19) Approximate vater strata depths: Fresh, feet: salt, feet. 19) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR SPECIFICATIONS Weight New Used For drilling Left in well (Specify) Intermediate 7' J-55 20# X 2290' Z290' 100 SkS Production 4 1/2 ERW 10.5# X 5400' 250 SkS Der hs set Libers Check and provide one of the following:	
8) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 WITH Tamstown, W.V. 26187 Acreage 121.67 Name 121.67 Name SEP 2 849693 10) OIL & GAS INSPECTOR TO BE NOTIFIED OIL & GABRANISON ON RECORD OIL & GABR	Acreage 122 8) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address 10) OIL & GAS INSPECTOR TO BE NOTIFIED OIL & GASHIVISION Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X / Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5 + 00 feet; salt, feet. 19) Approximate vater strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O size oal being mined in the area? Yes No- 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade perft, New Used For drilling Left in well Coal Sizes Production Frem water 9 5/8 LS 33# X 350 350 To Surface Sizes Lintermediate 7" J-55 20# X 2290 Z290 100 SkS Production 4 1/2 ERW 10.5# X 5400 250 SkS Det hi set Tubing Linters 21) EXTRACTION RIGHTS Check and provide one of the following:	
SURFACE OWNER Charles A. Newhart Address P.O. BOX 351 (International Procession Processi	8) SURFACE OWNER Charles A. Newhart Address P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 9) FIELD SALE (IF MADE) TO: Address 14) COAL LESSEE WITH DECLARATION ON REI OIL & GAS INSPECTOR TO BE NOTIFIED Name Den Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM COnductor Size Grade Weight Conductor Pred Wing Row Used For drilling Left in well (Cubic feet) Intermediate 7" J-55 20# X 2290' 2290' 100 SkS Touling Tubing Type Size Size Grade Program Size Size Size Size Size Size Size Size	
Address P. O. Box 351 Will iams town, W. V. 26187 Acreage 121.67 Name BELD SALE (IF ADD) TO: Address 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Den Mace Address Rt. L Box 5 Sandridge, W. V. 25274 15) PROPOSED WORK: Drill X Drill deeper Plug off old formation Other physical change in well (specify). 16) GEOLOGICAL TARGET FORMATION. REDOWN SHALE 17) Estimated depth of completed well, 5 400 18) Approximate water strate depth: Fresh, Jeet; sall, feet. 19) Approximate coal seam depths: 0	Address P.O. Box 351 Williamstown, W.V. 26187 Acreage 121.67 Name 121.67 Name Den Mace Oil & Gasmo Vision Name Den Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well. 5400 [feet] 18) Approximate water strata depths: O Is coal being mined in the area? Yes No 20) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS FOOTAGE INTERVALS (Cambert Fill-Up OR SACKS (Cablic feet) Conductor TUBING TYPE Size Grade per ft. New Used For drilling Left in well (Cablic feet) Conductor Freib water 9 5/8 LS 33# X 350 350 TO Surface Coal Coal Coal Coal Coal Coal Coal Coal	RECORD:
Williamstown, W.V. 26187 Name Address 121.67 Name Address 121.67 Name Address Rt. 1 Box 5 Sandridge. W.V. 25274 Sandridg	Williamstown, W.V. 26187 Acreage 121.67 Name 121.67 Name SEP 2 Address 14) COAL LESSEE WITH DECLARATION ON REGISTER Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Other physical change in well (specify). 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, S+00 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate water strata depths: Presh, feet; salt, feet. 19) Approximate water strata depth feet. 19) Approximate water strata depths: Presh, feet; salt, feet. 19) Approximate water strata depths: Presh, feet; salt, feet. 19) Approximate water strata depths: Presh, feet; salt, feet. 19) Approximate water strata depths: Presh, feet; salt, feet. 1	
9) FIELD SALE (IF MADE) TO: Address Address 10) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation. Preforate new formation. Proforate new formation. Preforate new formation. Preforation. Pr	9) FIELD SALE (IF MADE) TO: Address 14) COAL LESSEE WITH DECLARATION ON REI 16) OIL & GAS INSPECTOR TO BE NOTIFIED Name Den Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation. Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5+00 feet 18) Approximate water strata depths: Fresh, feet; salt, feet; salt, feet; 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Per ft. New Used For drilling Left in well Conductor Coal Coal Intermediate 7" J-55 20# X ZZ90' ZZ90' TO SUrface Intermediate 7" J-55 20# X ZZ90' ZZ90' TO Sks Der hs set Libers Pretovation 4 1/2 ERW 10.5# X ZZ90' ZZ90' Z50 Sks Der hs set Libers Perforations: Top 21) EXTRACTION RIGHTS Check and provide one of the following:	
SEP 2 8 448/058 14) COAL LESSEE WITH DECLARATION ON RECORD: Oil & GASINSPECTOR TO BE NOTIFIED Name Den Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation. Profunction Perforate new formation. Profunction Perforate new formation. Profunction Perforate new formation. Profunction Perforate new formation. Perforate new formation in the owner. Perforate new formation in the new formation new formation in the new formation new formation formation formation formation formation formation formation for on formation for on formation for on formation for perforate new formation for perf	9) FIELD SALE (IF MADE) TO: Address 14) COAL LESSEE WITH DECLARATION ON RECORD Address 14) COAL LESSEE WITH DECLARATION ON RECORD ADDRESS AND ADDRES	
14) COAL LESSEE WITH DECLARATION ON RECORD: Oil & GASINSPECTOR TO BE NOTIFIED Name Deo Mace Address Rt. 1 Box 5 Sandridge, M.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation. Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5+00 feet 18) Approximate water strate adepths: Fresh, feet; salt, feet; 19) Approximate water strate adepths: Fresh, Jest; salt, feet; 19) Approximate water strate adepths: Fresh, Jest; salt, feet; 19) Approximate coal seam depths: 10) Is coal being mined in the area? Yes. No X CASING OR TUBING PROGRAM CASING OR TUBING PROGRAM Casing Or Size Orasie Perfit, New Used For drilling Left in well Chair feet Candedwice Trill John Strate Production Left in well Candedwice Trill John Strate Production Left in well Candedwice Trill John Strate Trill John Strat	14) COAL LESSEE WITH DECLARATION ON REGISTRATION ON REGISTRATI	
10 OIL & GAS INSPECTOR TO BE NOTIFIED	Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation. Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No 20) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CONDUCTOR SPECIFICATIONS TUBING TYPE Size Grade Per ft. New Used For drilling Left in well Countries (Cubic feet) Coal Linemediate 7'I J-55 20# X 2290' 2290' 100 sks Production 4 1/2 ERW 10.5# X 5400' 250 sks Der hs set Liners Perforations: Top TOP 21) EXTRACTION RIGHTS Check and provide one of the following:	
10 OIL & GAS INSPECTOR TO BE NOTIFIED	Name Deo Mace Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation. Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No 20) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CONDUCTOR SPECIFICATIONS TUBING TYPE Size Grade Per ft. New Used For drilling Left in well Countries (Cubic feet) Coal Linemediate 7'I J-55 20# X 2290' 2290' 100 sks Production 4 1/2 ERW 10.5# X 5400' 250 sks Der hs set Liners Perforations: Top TOP 21) EXTRACTION RIGHTS Check and provide one of the following:	COPD:
Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate. Plug off old formation Perforate new formation Other physical change in well (specify). Other physical change in well (specify). 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5 + 00 feet; salt, feet. 18) Approximate vater streat adepths: Fresh, feet; salt, feet. 19) Approximate vater streat adepths: Fresh, feet; salt, feet. 19) Approximate vater streat adepths: Fresh, feet; salt, feet. 19) Approximate vater streat adepths: Fresh, feet; salt, feet. 19) Approximate vater streat adepths: Fresh, feet; salt, feet. 10) CASING AND TUBING PROGRAM CASING OR SECTIFICATIONS FOOTAGE INTERVALS CHART FILLUP OR SACKS (Cubic feet) Conductor Size Grade Per ft. New Used For drilling Left in well Chart Filluling Research Conductor Coal Tubing Type Size Grade Per ft. New Used For drilling Left in well Chart Filluling Research Chart Filluling Research Research Research Park Size Conductor Coal Tubing Type Size Create Per ft. New Used For drilling Left in well Research	Address Rt. 1 Box 5 Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Perforate new formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: 0 Is coal being mined in the area? Yes No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Perft, New Used For drilling Left in well OR SACKS (Cubic feet) Conductor Fresh water 9 5/8 LS 33# X 350′ 350′ TO Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Det his set Liners PROGRADIL TRACTION RIGHTS Check and provide one of the following:	LOKD.
Sandridge, W.V. 25274 15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate. Proposed Work: Drill X Drill deeper Perforate new formation Other physical change in well (specify). 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5+00 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O ls coal being mined in the area? Yes No X 20) CASING AND TUBING PROGRAM CASING OR SPECIFICATIONS TUBING TYPE Size Grade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TUBING TYPE Size Of rade Fiet. New Used Foot defiling Left in well CASACKES CONDUCTOR TO SUPPLIANCE OF THE ACCUSACY TO	Sandridge, W.V. 25274 Sandridge, W.V. 25274	
15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation. Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, S+PO feet 18) Approximate water strata depths: Fresh, Jeet; salt, feet. 19) Approximate coal seam depths: Fresh, Jeet; salt, feet, 19) Approximate owater strata depths Proposition of Jeet Strate Coal Strate	15) PROPOSED WORK: Drill X Drill deeper Redrill Fracture or stimulate Plug off old formation Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet, 19) Approximate coal seam depths: O Is coal being mined in the area? Yes / No_ CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR TUBING TYPE Size Grade per ft. New Used For drilling Left in well (Cubic feet) Conductor Size Grade per ft. New Used For drilling Left in well (Cubic feet) Coal Intermediate 7" J-55 20# X 2290' 2290' 100 5ks Production 4 1/2 ERW 10.5# X 2290' 250 5ks Det hs set Tubing Liners Perforations: Top 221) EXTRACTION RIGHTS Check and provide one of the following:	
Pring of 10d formation	Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Weight per ft. New Used For drilling Left in well (Cubic feet) Conductor Fresh water 9 5/8 LS 33# X 350 350 TO Surface Coal Intermediate 7" J-55 20# X ZZ90' ZZ90' 100 Sks Production 4 1/2 ERW 10.5# X ZZ90' ZZ90' 250 Sks Der hs set Tubing Liners Perforations: Top Check and provide one of the following:	
Pring of 10d formation	Other physical change in well (specify) 16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: O Is coal being mined in the area? Yes No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Weight per ft. New Used For drilling Left in well (Cubic feet) Conductor Fresh water 9 5/8 LS 33# X 350 350 TO Surface Coal Intermediate 7" J-55 20# X ZZ90' ZZ90' 100 Sks Production 4 1/2 ERW 10.5# X ZZ90' ZZ90' 250 Sks Der hs set Tubing Liners Perforations: Top Check and provide one of the following:	
16) GEOLOGICAL TARGET FORMATION. BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; sailt, feet. 19) Approximate water strata depths: Fresh, feet; sailt, feet. 20) CASING AND TUBING PROGRAM CASING OR TUBING PROGRAM CASING OR SPECIFICATIONS TUBING TYPE Size Grade Per II. New Used For drilling Left in well Conductor Conductor 95/8 LS 33# X 350 350 TO Surface Kinds Frenh water 95/8 LS 33# X 2290 2290 100 sks Frenh water 95/8 LS 33# X 2290 2290 100 sks Frenh water 95/8 LS 10.5# X 2290 250 sks Der ha set 10.5# Sizes Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. XX The requirement of Code 22-41-(c) (1) through (4). (See reverse side for specifics.) 22) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract (if the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. 20) Required Copies (See reverse side.) 30) Required Copies (See reverse side.) 31) A Signed:	16) GEOLOGICAL TARGET FORMATION, BROWN SHALE 17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: 0 Is coal being mined in the area? Yes / No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Per ft. New Used For drilling Left in well (Cubic feet) Conductor Fresh water 9 5/8 LS 33# X 350′ 350′ To Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 SkS Production 4 1/2 ERW 10.5# X 5400′ 250 SkS Der hs set Liners Perforations: Top CEMENT FILLUP OR SACKS (Cubic feet) Kinds Sizes Tubing Liners Perforations: Top CEMENT FILLUP OR SACKS (Cubic feet) Kinds Fresh water 9 5/8 LS 33# X 350′ 350′ To Surface Sizes Production 4 1/2 ERW 10.5# X 2290′ 2290′ 100 SkS Perforations: Top Check and provide one of the following:	
17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh,feet; sailt,feet. 19) Approximate coal seam depths:	17) Estimated depth of completed well, 5400 feet 18) Approximate water strata depths: Fresh, feet; salt, feet. 19) Approximate coal seam depths: 0 Is coal being mined in the area? Yes / No_ 20) CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Per ft. New Used For drilling Left in well (Cubic feet) Conductor Kinds Fresh water 9 5/8 LS 33# X 350' 350' To Surface Coal Intermediate 7" J-55 20# X 2290' 2290' 100 sks Production 4 1/2 ERW 10.5# X 5400' 250 sks Der hs set Tubing Liners Perforations: Top EXTRACTION RIGHTS Check and provide one of the following:	
18) Approximate water strata depths: Fresh,	18) Approximate water strata depths: Fresh,	
19) Approximate coal seam depths:	19) Approximate coal seam depths: O Is coal being mined in the area? Yes / No_ CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade Per ft. New Used For drilling Left in well Common C	
CASING AND TUBING PROGRAM CASING OR CASING OR SPECIFICATIONS Weight For drilling Conductor Freib water 9 5/8 LS 33# X 350' TO Surface Size Conductor Freib water 9 5/8 LS 33# X 350' TO Surface Size Intermediate 7" J-55 20# X Z290' 2290' 100 sks Perforations: Tubing Liners Liners Liners Perforations: Production	CASING AND TUBING PROGRAM CASING OR TUBING TYPE Size Grade per ft. New Used For drilling Left in well (Cubic feet) Fresh water 9 5/8 LS 33# X 350′ 350′ TO Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Liners Liners CASING AND TUBING PROGRAM FOOTAGE INTERVALS FOOTAGE INTERVALS FOOTAGE INTERVALS FOOTAGE INTERVALS CEMENT FILL-UP OR SACKS (Cubic feet) Kinds To Surface Sizes To Surface Sizes To Surface Sizes Top Perforations: Top	
CASING OR TUBING TYPE Size Grade Grade Fresh weeps Grade Fresh water Obs SACKS Could Could Could Could Could Could Could Could For drilling Fresh water Obs SACKS Could C	CASING OR TUBING TYPE Size Grade Grade Grade Fresh water Production Intermediate Tubing Liners CASING OR TUBING TYPE Size Grade Size SPECIFICATIONS Weight Perfs. New Used For drilling Left in well Conductor Sizes Footage Intervals Footage Intervals For drilling Left in well Conductor Sizes To Surface Sizes Sizes Top Perforations: Top Casing OR A 1/2 ERW 10.5# X Sizes Perforations: Top Check and provide one of the following:	X
TUBING TYPE Size Grade per ft. New Used For drilling Left in well Clubes (Feet) OR SACKS (Clubes (Feet) Kinds	TUBING TYPE Size Grade per ft. New Used For drilling Left in well CCubic feet) Conductor Fresh water 9 5/8 LS 33# X 350′ TO Surface Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Liners LEXTRACTION RIGHTS Check and provide one of the following:	
Conductor Fresh water 9 5/8 LS 33# X 350 TO Surface Sizes Sizes Intermediate 7" J-55 20# X Z290 Z290 100 SkS Production 4 1/2 ERW 10.5# X 5400 250 SkS Der ha set Perforations: Top Bottom Perforations: Top Bottom Conductor Conductor Top Conductor Top Bottom Conductor Conductor Top Conductor Top Bottom Conductor Top Bottom Conductor Top Conductor Top Conductor Top Bottom Top Bottom Top Bottom Top Bottom Top Bottom Top Requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract for the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abor named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Decayment Mines as Charlesylon, West Virginia. Notary: Arthory Mest Virginia. Notary: May 10, 1989 Coffice USE ONLY DRILLING PERMIT 19	Size Grade per ft. New Used For drilling Left in well OR SACKS (Cubic feet) Conductor Fresh water 9 5/8 LS 33# X 350′ To Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Tubing Liners EXTRACTION RIGHTS Check and provide one of the following:	ERS
Coal Intermediate 7" J-55 20# X 2290' 2790' 100 sks Production 4 1/2 ERW 10.5# X 2290' 250 sks Det has set Tubing Liners Liners	Conductor Fresh water 9 5/8 LS 33# X 350′ 350′ To Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Tubing Liners Perforations: Top Top	
Coal Intermediate 7" J-55 20# X 2290' 2290' 100 sks Production 4 1/2 ERW 10.5# X 2290' 250 sks Det hi set Tubing Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts by which I hold the right to extract oil or gas so extract of the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston, West Virginia. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston, West Virginia. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston, West Virginia. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston, West Virginia. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston, West Virginia. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about mines ay Charleston. Produced of the mailing or delivery of this Permit Application to the Department Mines ay Charleston. Notary: Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivery of this Permit Application to the Department Mines ay Charleston. Notary: Designated Agent 12/08/2023	Fresh water 9 5/8 LS 33# X 350′ To Surface Coal Intermediate 7" J-55 20# X 2290′ 2290′ 100 sks Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Tubing Liners Perforations: Top	
Description Sizes Sizes	Intermediate 7" J-55 20# X ZZ90' ZZ90' 100 sks Production 4 1/2 ERW 10.5# X 5400' 250 sks Der hs set Tubing Liners Perforations: Top	
Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Tubing Liners Perforations: Top Bottom Top Bottom Top Royaltry PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract of the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. 4 Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abon named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: **Designated** **Desig	Production 4 1/2 ERW 10.5# X 5400′ 250 sks Der hs set Tubing Liners Perforations: Top EXTRACTION RIGHTS Check and provide one of the following:	
Tubing Liners Det has set	Tubing Liners Perforations: Top 21) EXTRACTION RIGHTS Check and provide one of the following:	
Extraction rights Designated Designate	Liners Perforations: Top 21) EXTRACTION RIGHTS Check and provide one of the following:	
Perforations: Top Bottom	Perforations: Top 21) EXTRACTION RIGHTS Check and provide one of the following:	
EXTRACTION RIGHTS Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract produced or marketed? Yes No No nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. All Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about marmed coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT 19	21) EXTRACTION RIGHTS Check and provide one of the following:	
Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract of the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: Application Notary: Signed: Signed: Application Notary: Application Notary: Application Notary: Application Notary: Application Notary: OFFICE USE ONLY OFF	Check and provide one of the following:	Bottom
Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract of the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: Application Notary: Signed: Signed: Application Notary: Application Notary: Application Notary: Application Notary: Application Notary: OFFICE USE ONLY OFF	Check and provide one of the following:	
Check and provide one of the following: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract of the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary:	Check and provide one of the following:	
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas. The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifies.) ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract produced or marketed? Yes \(\) No \(\) \(\	Included is the lease or lease or other	
ROYALTY PROVISIONS Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract produced or marketed? Yes No (X) If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. A) Required Copies (See reverse side.) (A) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Notary: Notary: Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT 19	is the lease of leases of other continuing contract or contracts by which I hold the sight to	
Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extract produced or marketed? Yes No X If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Notary: Notary:	(a) (b) (in order (4). (See reverse side for specifics)	
produced or marketed? Yes No No Nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT 19	22) ROTALTT PROVISIONS	
produced or marketed? Yes No No Nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT 19	similar provision for compensation to the course of the city	royalty or a
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines ar Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT DRILLING PERMIT	produced or marketed? Yes No X	so extracte
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT DRILLING PERMIT	If the answer above is No, nothing additional is needed. If the answer is Ves you may use A feed and the same of t	
Mines at Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 Signed: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT Designated Agent 1989 OFFICE USE ONLY DRILLING PERMIT	opies (occ reverse side.)	
Mines at Charleston, West Virginia. Notary: My Commission Expires May 10, 1989 Signed: My Commission Expires May 10, 1989 OFFICE USE ONLY DRILLING PERMIT Designated Agent 1989 OFFICE USE ONLY DRILLING PERMIT	4) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by bear	
Notary: May 10, 1989 Signed: Harry & Dight of Signed: Designated Agent 12/08/2023 OFFICE USE ONLY Permit number	Mines at Charleston, West Viscisia	to the above
My Commission Expires May 10, 1989 OFFICE USE ONLY Permit number	11 11 941 (1/9/1/2-1-	Z
OFFICE USE ONLY DRILLING PERMIT 19	Signed: Hurry X. Wight	9
Permit number	My Commission Expires 142/08/2	023
Permit number	OFFICE LISE ONLY	
To the following state of the following state	DDILLING DEDICATE	
Date	ermit number	19
airements subject to the conditions contained herein and on the reverse hereaf	his permit covering the well operator and all the second s	
	France Coloring the well operator and well location shows below.	

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
 - 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - 15) Work that will be attempted—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 permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
 - 16) Anticipated formation for which well will be completed
 - 17) Self explanatory
 - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
 - 19) All coal seam depths
 - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
 - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1)A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4)A brief description of the royalty provisions of each such lease or contract.
 - 22) Code 22-4-11(d) and 22-4-11(e).

19

Date:

- 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.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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. 12/08/2023

WAIVER

The undersigned coal operator	owner	/ lessee	of the coal under this well location has ex-
			ea of the well location, the well location has been
			sed to be done at this location, provided, the well
operator has complied with all applica	ble requirements o	of the West Virginia	a Code and the governing regulations.

By

FORM IV-2(B) COAL OWNER'S COPY



1)	Date:	K Sant.	1	_, 19
2)	Operator's Well No.	EX S	42	
3)	API Well No.	47	.013	3645
,		State	County	Permit

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

APPLICATION FOR A WELL WORK PERMIT

4) WELL TYP	E: A O	il	/ Ga	s X					
		f "Gas", F	Production	201	X		orage Shoal	_/ Deep	_/ Shallow/)
5) LOCATION		vation:	1003.	FD.		_ Watershed: County:		THE RESIDENCE OF THE PARTY OF T	7.5' Arnoldsburg
		trict:	Lee	1334.	- 0 D			AGENT Harry	
6) WELL OPE	ERATOR_	CONTRACTOR PROPERTY.	dison				Address		roinia St. F.
Address		New Yo	A 40 A 10 10 10 1	aw Y		0017	Address		ston, W.V. 25300
					JIK L		9) DRILLING CO		**************************************
8) OIL & GAS	Deo Ma		BE NOTIF	IED				NOUN AT THIS	TIME
Name	25.3.	1 Box	, 5				Address	WHII AT THE	
Address	-	dridae	Contract Con	25	27 A		ridaress		
			Drill			dooper	/ Pedrill	/ Stimulate	,
10) PROPOSE	D WELL	WORK:			_/ Drill		ite new formation_		
						well (specify)	tte new rormation_		
11) GEOLOGI	CAL TAR	GET FOR							
11) GEOLOGI 12) Estima	ted denth	of complete	ed well.	5	400	feet			
13) Appro								feet.	
14) Appro							l being mined in the	area? Yes	/ No/
15) CASING A									
CASING OR			IFICATIONS		11	FOOTAGE IN	NTERVALS]	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	Size	Grade	per in		- Sec		TO BUILDING		Kinds
Fresh water	9 5/8	15	33#	Y		350'	350	To Surface	124 Kat 1 20
Coal	2 4/0	La Co	WWB.			Activities and the same			Sizes
Intermediate	711	1.55	20#	У		2290'	72900	100 sks	
Production	4 192	FRW	10.54	y			54000	250 sks	Depths set
Tubing		Sec. 9. 3.5-7	4444						
Liners									Perforations:
									Top Bottom
	are requir	ed to make optication The follow who has r	l operator e by Code by the Dep wing waive ecorded a	§22-4-3 partment	owner(s), a must be fint.	nd coal lessee are hiled with the Depart eted by the coal op r Code §22-4-20, if	ment of Mines within	ny objection they wish in fifteen (15) days after the october of coal less sued within fifteen (1	er the receipt are 19 83
						WAIVER			
examined this pr	oposed we	Hocation. on to the w	If a mine work propo	map exosed to	kists which be done at	covers the area of	he well location, the	well location has been	bal under this well location has n added to the mine map. The all applicable requirements of
	1		4	8				7	1
Date:			, 1	9		В	у	1 1	A
						I	S		

IV-9 (Rev 8-81)



DATE	9.6.83
DATE	1. 6.00

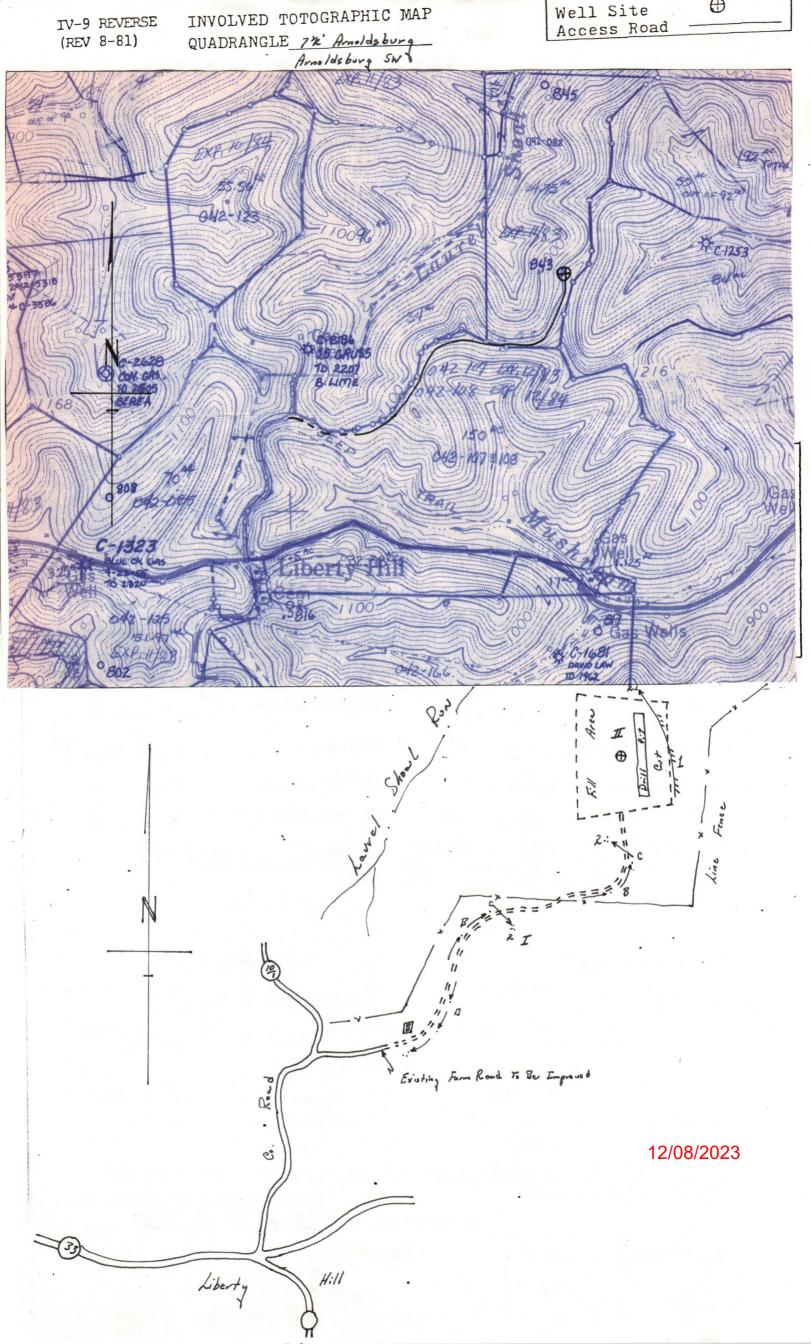
WELL NO. Morgan # 843
API NO. 47 - 013 - 3645

State of Mest Birginia

Beparlment of Mines Gil und Gas Bivision

CONSTRUCTION AND RECLAMATION PLAN

CO:PANY NAME Sterling Drilling & Prod. (Co WELL OPERATOR Sterling Drilling & Pr
Address 360 Madison Ave NY, NY 100	017 Address c/o H.L.Berger - Chars., WY
Telephone (212) 949-9100	Telephane (304) 342-0121
LANDOWNER Charles A. Newhart	SOIL CONS. DISTRICT Little Romande SED
Revegetation to be carried out by Sterli	ng Drilling & Prod. CoH.L. Bergerent)
This plan has been reviewed by 1, ++/;	e Kanawha son. All corrections
and additions become a part of this plan:	9-9-83
	(Date)
Jan	(SCD Agent)
ACCESS ROAD	LOCATION
Structure (A)	Structure Diversion Ditch (1)
Spacing .	Material Earthen -
Page Ref. Manual	Page Ref. Manual 2-12
Page Rei. Fianual	2-12
Structure Drainage Ditches SE(B) 8	1983Structure Rip-Rap (2)
Spacing Roadside	DIVISION Rock
OIL & GAS	F Mpage Ref. Manual 2-9
Page Ref. Manual 2.R DEPT. D	rage her. Pandal 2-1
Structure Cross Ditches (C)	Structure (3)
Spacing 150's and 3. 50's ande.	Material
Spacing 150' spacing for 3.50 ande	Page Ref. Manual
Page Ref. Manual 2-4	
All structures should be inspected regula commercial timber is to be cut and stacked	rly and repaired if necessary. All and all brush and small timber to be
cut and removed from the site before dirt w	
REVEGETA	MOIN
Treatment Area I	Treatment Area II
ine 2 Tons/acre	Lime 2 Tons/acre
or correct to pH 6.5	or correct to pH 6.5 Fertilizer 600 lbs/acre
ertilizer 600 lbs/acre (10-20-20 or equivalent)	Fertilizer 600 lbs/acre (10-20-20 or equivalent)
olch Hay 2 Tons/acre	Mulch Hay 2 Tons/acre
eed* 40 lbs/acre	Seed* 2.31 40 lbs/acre
Ladino Clover 4 lbs/acre	Ladina Claver 4 lbs/acre
lbs/acre	12/08/2023
*Inoculate all legumes such as vetch, trefoi	l and clovers with the proper bacterium.
oculate with 3% recommended amount.	Moore's Well Services, Inc.
PLAN PL	REPARED BY Victor of Compbell
NOTES: Please request landowners'	ADDRESS Route 1 Box 30
cooperation to protect new seedling for one growing season.	Duck, WV 25063
Attach separate sheets as	PHONE NO. (304) 364-5780
necessary for comments.	ווטוו וויי ()טין לייין



1) Date: September 1 ,19 83

2) Operator's

843 Well No. 3) API Well No. 47

013 3645 State County Permit

STATE OF WEST VIRGINIA DEPARIMENT OF MINES, OFFICE OF OIL & GAS

NOTICE OF APPLICATION FOR A WELL WORK PERMIT

4) SU	RFACE OWN	ER(S) OF RECOR	TO BE SERVED	5(i)	COAL	OPERATOR	LINODEDATED	
(i)		Charles A.	Newhart		Addre		- UNOPERATED	
	Address	P.O. Box 3	51	F / / / /				
(ii)	Name -	Williamsto	wn, W.V. 26187	2(11)	Name		WITH DECLARATION	ON RECORD
''	Address					ress_UN	IKNOWN	
(iii)		EP 9	The second secon		Name	est p lanta		Agran of Physics (1)
	Address		t is compared a		Add	ress	also the ball of the terms	
-	#17 E	Aproduct.		5(iii)	~~~			
			28 10	2(111)	Name	LESSEE W.	ITH DECLARATION ON	RECORD:
					-	ress		
								and the second second

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

(1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;

(2) The plat (surveyor's map) showing the well location on Form IV-6; and

(3) The Construction and Reclamation Plan on Form IV-9)unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by Harry L. Berger, this 1 day of 19 83 Sept. My commission expires May 10, 1989. Notary Public, Kanawha State of West Virginia

OPERATOR Sterling Drilling & Prod. Co.,	Inc.
By Harry Q. Alace &	
ItsDesignated Agent	
Address 710/Virginia St., F. Charleston, W.V. 25301	
Telephone 3/2 0121	

6) EXTRACTION RIGHTS

Check and provide one of the following:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.

(X) The requirement of Code 22-4-1-(c)(1) through (4). (See reverse side for specifics.)

7) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or leases or other contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

INSTRUCTIONS TO APPLICANT

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
 - 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
 - 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
 - 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
 - 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-lk and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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-lk(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-3a from the commer of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-lm, 22-4-2, 22-4-2a, and 22-4-2b.

INFORMATION SUPPLIED UNDER CODE § 22-4-11(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that—

- the tract of kind is the same tract described in the Application to which this Notice
 applies, partly or wholly depicted in the accompanying plat, and described in the
 Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Rovalty	Book Page
Owen Morgan C.R. Newhart Quinton Morgan	Sterling Drilling and Production Co., Inc.	1/8	083/639
Bob Morgan			
Robert Stephens			
Imogene Campbell	C63	500000	COMPAND.
Dolly Morgan		112 (6/2)	W/ 12 1111
Lenova Davis			. 4 6 111
Arthur Morgan		1	10
		Acres by last tol	675 MM

SEP 2.8 1983

SURFACE OWNER'S COPY



1)	Date:	Sept	. 1	_, 19_83
2)	Operator's Well No	88	843	
3)	API Well No.	47	013	3645
		State	County	Permit

Surface Owner

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION APPLICATION FOR A WELL WORK PERMIT

4) WELL TY	PE: A	Oil	/ Ga	as							
	В (If "Gas",	Production	n		/ Under	ground	SECTION AND ADDRESS OF THE PARTY OF THE PART	/ Deep	_/ Shallow <u></u>	/)
5) LOCATIO		evation: _	1083.3	70		Waters		Laurel Shoal	Run	7 Ct Ammalda	huma
		strict:	LUU Des	1111	vo 2 C	rod County		l houn	Quadrangle:	.5' Arnolds . Berger J	burg
6) WELL OP		360 Ms	dienn	Buc	54.64	th Floor		7) DESIGNATED	MOLINI	roinia St	E .
Address		New Ye	sub Ne	ny Yn	me 3	0017		Address	Charles	TO PERSON STREET	E255
8) OIL & GA	C INCREC		DE NOTI	CIED				9) DRILLING CO		DUNIE WAYA A	3388
8) OIL & GA	Deo Ma		BE NOTH	TED				NameUNK	NOUN AT THIS	TIME	
Address	5.5	1 801	(5)					Address	-777	100 (11)	
Address	COUNTY OF THE REAL	dridae		252	74			Address Se	3/80/00/21/11	2 1919	The second second
10) PROPOSE	D WELL	WORK.	Drill_	(/ Dril	l deeper_		/ Redrill	Stimulate	1101	
io) TROTOSE	D WELL	WORK.						ate new formation	,		
						in well (speci		are new rormanon	OCD 9 8 198	3	
11) GEOLOGI	CAL TAR	GET FOR			5 35 2 PAS	IALE	-,,	0-	SEL DO		
12) Estima				5	400		feet		-11	ISION	
13) Appro						feet;	salt		Olifeel GAS DIV	MINES	
14) Appro					0		Is co	al being mined in the	area? Yes DF	VIII No X	,
15) CASING A								D	area? Yes OF		
CASING OR		SPEC	CIFICATIONS	1		го		NTERVALS	CEMENT FILL-UP	PACKERS	
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drill	ing	Left in well	OR SACKS (Cubic feet)	an harman att sam	
Conductor										Kinds	
Fresh water	9 5/8	LS	33#	X		350	>	350	To Surface	A STATE OF THE STA	
Coal										Sizes	Marine S.
Intermediate	7"	J-55	20#	X		223	101	22900	100 sks		
Production	4 122	ERW	10.5#	X				54000	250 sks	Depths set	
Tubing			The same of								
Liners										Perforations:	No. of the last
										Top E	Bottom
				9							
	the filing on a facsi	of the App mile of the 7-013-3	lication if this surface of the surf	the surf owner's VOI	ace owner copy of LUNTAL	er(s) of record the Applicat RY STATEM where on the r	d sign(s) tion. IENT Of the reverse s	the following "Volume of the following of the following "Volume of the following of	be issued in less than interpretation of Notice is the interpretation of the interpretation of the interpretation is the interpretation of the interpretation in the interpretation is the interpretation of the interpretation in the interpretation is the interpretation of the interpretation in the interpretation is the interpretation of the interpretation in the interpretation is the interpretation of the interpretation in the interpretat	Objection" 19 ermit, and that I hav	
									k on my surface land no objection to a perm		
(For execution b	y corporat	ion, partn	ership, etc.	985			(For	execution by natura	al persons)		
NAME:							Le	harles	RMen	hart por 9.	-19-83
Ву								/ (S	lignature)	Date.	- 05
	1.						less	edena ? ne	what	Date: 9_	19-83
Its				Da	ate		4	45 Hid	ignature) bland t	Ave	
								5/11/4-7	T	10/110	
							N	Illiam	slown.	VVLVAI	100
										12/08/20	123

INSTRUCTIONS TO SURFACE OWNERS AND EXPLANATION OF METHODS AND TIME LIMITS TO COMMENT ON OIL AND GAS WELL WORK PERMIT

The well operator named in the Notice and this Application and the attached materials is applying for a permit from the State to do oil or gas well drilling or other well work. You are being served with these materials because surface owners have the right to file comments before the permit is issued. (NOTE: If the surface tract is owned by more than three persons, in multiple heirship for example, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22, Article 4 of the W. Va. Code. Permits are valid for 24 months.

If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator named in the materials and the Administrator of the Office of Oil and Gas in the West Virginia Department of Mines immediately.

NOTE: You are not required to file any comment at all.

Where to file comments and obtain additional information:

Administrator of the Office of Oil and Gas West Virginia Department of Mines 1615 Washington Street East Charleston, West Virginia 25311 (304) 348-2057

Who may file comments? If you wish to file comments, you must be an owner of record of (1) an interest in the surface tract on which the well already is or is about to be located, or (2) an interest in any other surface tract under the same oil or gas lease which will be utilized for roads or other land disturbances.

Time limits for comments. The law requires these materials to be delivered on or before the date the operator files his Application. You have FIFTEEN (15) DAYS after the filing date to file your comments as provided in Methods for Filing Comments below. You may call the Administrator's office at the above telephone number to be sure of the date. However, if you have been contacted by the well operator, and if you have signed a "voluntary statement of no objection" to any of the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number, and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Methods for filing comments. Comments must be filed in person or received in the mail at the Administrator's office by the time stated above. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling.

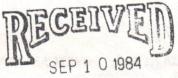
The Administrator for Oil and Gas has the power to deny or condition a well work permit based on your comments on the following grounds:

- "(1) The proposed well work will constitute a hazard to the safety of persons; or
- "(2) The plan for soil erosion and sediment control is not adequate or effective; or
- "(3) Damage would occur to publicly owned lands or resources; or
- "(4) The proposed well work fails to protect fresh water sources or supplies."

If you want a copy of the permit as it is finally issued, or a copy of the order denying the permit, you should request a copy from the Administrator.

List of Water Testing Laboratories. The Administrator maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Administrator's office or an Oil and Gas Inspector to obtain a copy of the list.

IV-35 (Rev 8-81)





OIL & GAS DIVISION

DEPT. of MINES State of Mest Hirginia

Bepartment of Mines Gil und Gas Bivision

Date	Augus	t 8, 1	984	
Opera Well		843		
Farm	Morga	n		
API N	0. 47	- 013	_	3645

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1083.96 Watershed	Laurel Sh	oal Run		
District: Lee County Calh	oun	Quadrangle	Arnolds	burg 7½'
COMPANY Sterling Drilling & Production Co., Inc.	14. [
ADDRESS 710 Virginia St., E., Charleston, WV 25301	Casing	Used in	Left	Cement
DESIGNATED AGENT Harry L. Berger, Jr. 25301	Tubing	Drilling		fill up Cu. ft.
ADDRESS 710 Virginia St., E., Charleston, WV	Size		44. 101.47 14	100
SURFACE OWNER Charles A. Newhart 25301	20-16 Cond.			
ADDRESS P.O.Box 351, Williamstown, WV 26187	13-10"			
MINERAL RIGHTS OWNER Bob Morgan, et al.	9 5/8	370	370	125 sks.
ADDRESS General Delivery, Grantsville, WV 26147	8 5/8	0,0	370	
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace	7	2314	2314	175 sks.
ADDRESS Rt.1 Box 5, Sandridge, WV	5 1/2			and the
PERMIT ISSUED October 19, 1983	4 1/2	125,000	5388'	270 sks.
DRILLING COMMENCED April 16, 1984	3			
DRILLING COMPLETED April 22,1984	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			21.2
	-	_		
		Dep		
Depth of completed well 5422' feet I				
Water strata depth: Fresh 71 feet; Coal seam depths: None				
Coal seam depths: None	Is coal	being min	ed in the	area? No
OPEN FLOW DATA				
Producing formation Devonian Shale				The state of the s
Gas: Initial open flow show Mcf/d				
Final open flow 231 Mcf/d	Fi	nal open f	low sho	w Bbl/d
Time of open flow between initi				
Static rock pressure 800 psig(surface	measure	ment) after	r 48 hou	rs shut ir
(If applicable due to multiple completion-)			
Second producing formation		y zone dept		feet
Gas: Initial open flow Mcf/d				Bb1/c
Final open flow Mcf/d			-	Bbl/d
Time of open flow between initi	al and f	inal tests	ho	nirs

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

1st Stage: 22 holes 4825'-5277'
2nd Stage: 25 holes 4230'-4681'
3rd Stage: 25 holes 3450'-4074'

Treatment

1st Stage: 750 gals. 15% HCl; 1,584 MSCF N_2 2nd Stage: 750 gals. 15% HCl; 1,536 MSCF N_2 3rd Stage: 750 gals. 15% HCl; 1,584 MSCF N_2

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Soil Siltstone and Shale Sandstone Shale Sandstone Shale break Sandstone Shale Salt Sand Shale Maxon Shale Little Lime Blue Monday Pencil Cave Big Lime Big Injun Siltstone and Shale Sunbury Shale Siltstone and Shale Siltstone Shale Siltstone Shale Siltstone Shale Total Depth	0 10 997 1092 1148 1330 1340 1386 1691 1860 1898 1929 1940 1966 1973 1986 2100 2146 2468 2488 2936 4838 4864 5020 5077	10 997 1092 1148 1330 1340 1386 1691 1860 1898 1929 1940 1966 1973 1986 2100 2146 2468 2488 2936 4838 4864 5020 5077 5422 5422.	Fresh water @ 71' Salt water @ 1165' Salt water @ 1750' Gas Shows 3450'-4074' 4230'-4681' 4825'-5277'

(Attach separate sheets as necessary)

Sterling	Drilling And Pro	oduction Co.,	Inc.
Well	Operator	/	12/08/2023
By:	Harry 2	Derger	S
Date:	8-30-84	/	

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 wal, encountered in the drilling of a well."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES OIL AND GAS WELLS DIVISION



INSPECTOR'S WELL REPORT

	OIL	&	GAS	DIVISION
D	EP	Τ.	OF	MINE

Permit No. <u>13-3645</u>		KEPOK	I	DEPT. OF MIN
Company Sterling	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address	Size			
Farm Morgan	16			Kind of Packer
Well No. 843	13			
District Lee County Cal	81/4	a Ta Angellan II a part la		Size of
Drilling commenced 4-17-54	65%			Depth set
Drilling completedTotal depth	5 3/16			
Date shotDepth of shot	3			Perf. top
initial open flow/10ths Water inInch	Liners Used			Perf. top
Open flow after tubing /10ths Merc. in Inch				Perf. bottom
ock pressure lbs, hrs.	CASING CEMEN			No. FTDate
bbls., 1st 24 hrs.	COAL WAS ENC	COUNTERED A	Т	FEETINCHES
resh waterfeetfeet				FEETINCHES
alt waterfeetfeet	FEET_	INCHE		FEETINCHES
rillers' Names Charlie Moore 2	7			
marks:				
376' 93/8" casing, 125	5K5 Cement	. Halib	utters.	4-17-84
Filled from top -	no cere	ulatin	,	

DATE

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

DEPT. OF MINE			ADDRESS	- 176 S-44		
FARM		DISTRICT		TINTY		
Filling Material Used				JUNI1		
Liner Loc	eation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND T	UBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
				100	Walley Sweet Switzer Co.	
				X1 X		A 1 1 2 1 1 1
						Fe-75.2.2.1
						ind mega tal
			100			
	neterior annually to the terminal					10.232 00.001
rillers' Names						
emarks:						
						- 1

I hereby certify I visited the above well on this date.

DISTRICT OFFICE PRINTER



APR 1 5 1986

CL AND GAS

DEPA

RGY

State of West Virginia Department of Mines

Oil and Gas Bivision Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE PERC 10-19-83

	September 24	, 1984
COMPAN	Y Sterling Drilling & Prod. Co.	PERMIT NO013-3645
	Virginia Street, East	FARM & WELL NO _ Charles A. Newhart #843
Chari	eston, West Virginia 25301	DIST. & COUNTY Lee/Calhoun
RULE	DESCRIPTION	IN COMPLIANCE YES NO
23.06 25.04 25.03 16.01 15.03 15.02 15.01 15.04 15.05 23.02 25.01 23.04 23.05 23.07 16.01 16.02 7.05	Notification Prior to Starting Work Prepared before Drilling to Prevent High-Pressure Drilling Required Permits at Wellsite Adequate Fresh Water Casing Adequate Coal Casing Adequate Production Casing Adequate Cement Strenght Cement Type Maintained Access Roads Necessary Equipment to Prevent Waste Reclaimed Drilling Pits No Surface or Underground Pollution Requirements for Production & Gatheri Well Records on Site Well Records Filed Identification Markings	Waste
Your well	INSPECTED THE ABOVE CAPTIONED WELL AND I	DATE 4-12-86
MS/nw		DATE

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

1.0 API well number:	L CIVUI	ER THE NATURA	AL GAS POLIC	Y ACT (NGPA)	
(If not assigned, leave blank. 14 digits.				The state of the s	
2.0 Type of determination being sought:	-	-	47 - 013 -	3645	
(Use the codes found on the front	1				
of this form.)	1		107		
3.0 Depth of the deepest completion			Section of NGPA	Category Code	
location: (Only needed if sections 103			The second secon	30.7 0000	
or 107 in 2.0 above.)			5/	422	
				+ZZ feet	
4.0 Name, address and code number of	i				
applicant: (35 letters per line	1	Sterling Drilli	ng and Produc	ction Co. Inc.	
msximum. If code number not		me	CANADA PROPERTY AND A STATE OF THE STATE OF		0180
available, leave blank.)	1 7	10 Virginia St.	Fast Arcade	Ruilding	Selle
Court of the Court		vet	Last, mead	Darraing	
		narleston, WV 2	5301		
	Gr	THE RESERVE THE PARTY OF THE PA	.5501		
5.0 Location of this well: [Complete (a)		Y		State Zio	Code
or (b).]		I as Diet !			The same of the sa
(a) For onshore wells	-	Lee District			
(35 letters maximum for field	1 Fie	Id Name			The state of the s
name.)	Warehall	Calhoun ·			
(b) For OCS wells:	Cou	inty		State V.V	
				11.4	-
	-				
	Aras	Name		Block N	
	1			DIGCK IN	umber
	1	D	ate of Lause:		
	1	1.1	1 1 1 1 1		
(c) Name and identification number	1	Mo.	Day Yr.		_
of this well too to number	1		- Tr.	OCS Lease Number	
of this well: (35 letters and digits	Mo	organ 843			
meximum.)					
(d) If code 4 or 5 in 2.0 above, name	T				
of the reservoir: (35 letters	1				
maximum.)					
(a) Name and code number of the					
purchaser: (35 letters and digits					
meximum. If code number not		Undedicated			
available, leave blank.)	Name	ondedicated			
(b) Date of the contract:	1	The state of the s		The same of the sa	D
A SECTION OF THE SECT					Buver Co
				111	
(c) Estimated total annual production			Mo. Day		
from the well:					
1			6	Million Cub	
The Company of the Co	-			willion Cub	C rest
				(c) All Other	
i de la companya de l		(a) Bass Price	(b) Tax	Prices (Indicate	(d) Total of
Contract price:				(+) or (-).]	(b) and (c)
(As of filing date Complete				1-1-1-1	
decimal places.)	S/MMBTU	5 8 3 4			
Maximum lawful rate:					
As of filing and	1				
decimal places.)	MMBTU				
	100		-		
erson responsible for this application:		,			
Acres 11 5	Harn	لا L. Berger, الم	r.		
Agency Use Only	Naryle / 1 4			Designated Agent	
SEP 1 0 1984		Herry L. Derger & Title			
· ·	Signature	1. 18	194 4		
Received by FERC	,		/		08/2023 —
	Date Anni	ate Application is Completed		304-342-0121	
-171 18-871	THE ADDI	Campieted		Phone Number	
				Wolfe Maluber	

0

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved - OMB No. 1902-0038 (Expires 12/31/84)

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA) (Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Jse the codes in the table below for type of determination in item 2.

Section of Category Description

Come	Description
(b)	(e)
1	New OCS lease
2	New onshore well (2.5 mile test)
3	New onshore well (1000 feet deeper test)
4	illaw onshore reservoir
5	New reservoir on old OCS lease
-	New onsnore production well
0	Deep (more than 15,000.feet) high-cost gas
1	Gas produced from geopressured brine
2	Gas produced from coal seams
3	Gas produced from Devonian shale
5	Production ennancement gas
5	New tight formation gas
7	Recompletion tight formation gas
ŋ	Stripper well
1	Stripper well - sessonally affected
2	Stripger well - enhanced recovery
3	Stripper well — temporary pressure buildup
4	Stripper weil — protest procedure
	(b) 1 2 3 4 5 - 0 1 2 3 5 6 7 0 1

ter the appropriate information regarding other Purchasers/Contracts.

Contract Date (Mo, Da, Yr) (a)	Purcheser (b)	Buyer Cods
		9 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Ve-:		

Date Received

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

SEP 27 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: August 22 ,19 84	AGENCY USE ONLY
Applicant's Name: Sterling Drilling & Production Co.,	Inc. WELL DETERMINATION FILE NUMBER
Address: 710 Virginia Street, E. Arcade Bldg	
Charleston, WV 25301	840910 - 107 -013 - 3645
Gas Purchaser Contract No.	Use Above File Number on all Communications Relating to This Well
Date of Contract (Month, day and year)	neracing to firs well
	Designated Agent: Harry L. Berger, Jr.
Address: (Street or P.O. Box)	Address: Sterling Drilling & Prod. Co., In 710 Virginia St., E. Arcade Bldg Charleston, WV 25301
(City) (State) (Zip Code) FERC Seller Code 018084	FERC Buyer Code
NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING BE ADDRESSED:	
Name: Harry L. Berger, Jr. (Print) Signature: Sterling Drilling & Prød. Co. Address: 710 Virginia St., E., Arcade (Street or P.O. Box) Charleston, WV	Agent (Title)
Telephone: (City) (State) (304) 342-0121 (Area Code) (Phone Nu	(Zip Code)
(Certificate of Proof of Service to Purchas	
NGPA Catagory Appl NGPA SECTION/SUBSECTION	ied For
102 New Natural Gas 102-2 2.5 Mile Test 102-3 1000 Foot Deeper Test 102-4 New Onshore Reservoir 103 New Onshore Production Well 103 New Onshore Production Well	108 Stripper Well Natural Gas 108- Stripper Well 108-1 Seasonally Affected 108-2 Enhanced Recovery 108-3 Temporary Pressure Buildup
107 High Cost Natural Gas 107-0 Deep (more than 15,000 feet) 107-1 Geopressured Brine	AGENCY USE ONLY
107-2 Coal Seams 107-3 Devonian Shale 107-5 Production enhancement 107-6 New Tight Formation 107-7 Recompletion Tight Formation	APPROVED 007 -32608/2023
RECEIVED	32498/2023
SEP 1 0 1984	
OIL & GAS DIV. DEPT. OF MINES	*.

Determination hata

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

	,
Operator:	Aca
Type Determination being sought	Agent;
API Well No.: 47-013-3645	10/ (Devonian Shale)
West Virginia Office of Out	Well Name: Moryan #843
References: SJA File No.	Gas · County: Calhoun
Vol Page Line	
Base Line) and that	been marked with the (a) Shale Base presenting 0.7 x (Shale Base Line), Gamma Ray units less than 0.7 x (Shale log is included with this analysis.
tay elevation indices	S:
A. Shale Base Line	(API Units)
1. GR Value at 2. Remarks:	Base Line = 180 * API Units
B. Gamma Ray Log Val	lue at 0.7 x Value at Base Line
2. Calculation:	0.7 (GR Value at Base Line)
Intervals with GR index less	than 0.7 x (Value at Base Line):
	Thickness Feet of less than* f Interval 0.7 (Shale Base Line) Feet Feet
	2928 92
Total Devonial Interval	2928
Total Less Than 0.7 (Shale Base)	0 -
7. Less Than 0.7 (Shale Base It	$\frac{92}{12/08/2023}$
	•

*Marked on log included with analysis.

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

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval

7.

STATE OF WEST VIRGINIA

Date August 22, 1984

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. Morgan 843

API Well No.

47 - 013 - 3645 State County Permit

WELL CLASSIFICATION FORM HIGH COST GAS WELL - DEVONIAN SHALE NGPA Section 107

<i>2.</i>	PROTONATED ACTIVE Manny I Porgon In
	DESIGNATED AGENT Harry L. Berger, Jr.
	ADDRESS Arcade Building; 710 Virginia St.,
	Charleston, WV 25301
Stopling Duilling and Duoduct	LOCATION Elevation 1083.96'
WELL OPERATOR Sterling Drilling and Product	, Inc.
	Inc. Dist. Lee County Calhoun Quad. 72 Arnol
Charleston, WV 25301	Gas Purchase Contract No
.GAS PURCHASER	Meter Chart Code
ADDRESS	
	Date of Contract
* * * *	* * * *
Date surface drilling began: April 16,	1984
Indicate the bottom hole pressure of the w	well and explain how this was calculated.
Bottom Hole Pressure. PSIA Pf = Pwe XI	LGS
•	
$t = 60 + (0.0075 \times 542) + 459.67 = 5$	$x = \frac{1}{53.34} \times \frac{560}{} = .00003$
	1 x 1690 x 1.09 = 893 P
the state of the description of the state of	•
AFF	FIDAVIT
described in subparagraph (3)(i) or (3)(ii report described in subparagraph (3)(ii)(For potentially disqualifying non-shale for percent of the gross Devonian age interval	ge of the producing interval which is not y index of less than 0.7 if a Gamma Ray log (i)(A) has been filed, or as indicated by the B); I have demonstrated that the percentage otage is equal to or less than five (5) and I have no knowledge of any informatinconsistent with a conclusion that the we
STATE OF WEST VIRGINIA	
COUNTY OF Ranawha, TO-WIT:	
I, Chank Brooks, a Notary	y Public in and for the state and county
aforesaid, do certify that Harry L. Berge	er, Jr. whose name is signed to
the writing above, bearing date the 29 acknowledged the same before me, in my cou	day of Arrest, 1984, has
Given under my hand and official seal this	8 29 day of August . 1984.
Given under my hand and official seal this My term of office expires on the 27 day	y of <u>October</u> , 1991
(NOTARIAL SEAL)	Notary Public

