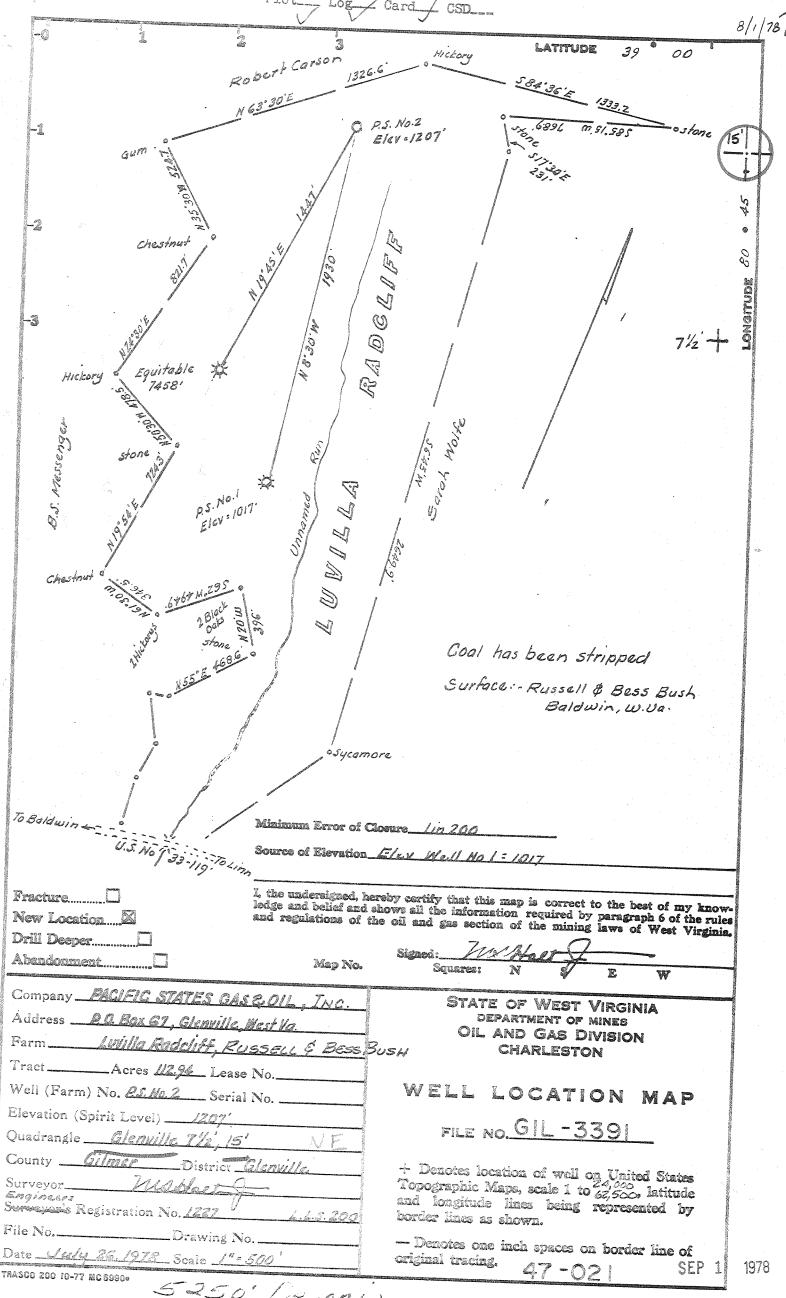
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Drill Deep	gionies	<b>~</b> 9	36 37-	Signed: Md Sex J
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Elevation	(Spirit Level	)		FILE NO. GIL - 3391 - REV- DE
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TRASCO 200 8-78 MC 8298. Glenville North (182)

Deep Well

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Fracture	ledge and belief an	hereby certify that this map is correct to dahows all the information required by pe	ragraph 6 of the rules
New Location	and regulations of	the oil and gas section of the mining la	we of West Virginia.
Drill Deeper	0.4	Signed:	
AbandonmentL	Map No	. Squares: N S	E W
Company Pacific State	s Gas and Oil INC	STATE OF WEST VI	
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Tract Acres <u>//294</u> ]			. 100° x 2. 200° 143. 1888 2008000
Well (Farm) No. <u>PS 2</u>		WELL LOCATIO	N MAP
Elevation (Spirit Level)	<u> </u>	FILE NOGIL-339	(Revised) .
Quadrangle Glenuille 7/2,	15' NE	a o uma anno 1 7 de/ commence de la	
County Gilmee Dist	rict <u>Glenulle</u>	+ Denotes location of well on	United States
Engineer Ms. Sout		Topographic Maps, scale 1 to 2 and longitude lines being a	2,500, latitude
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Date <u>Sept 4:1978</u> Scale	1"=500'	original tracing. 47-0	)2
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Deep Wellis 1:10 5 hore 6-6 Genville North (182)



250' Desonian

1978

April 4, 1979 XXX

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

1st Stage - 20,000 lbs. 80/100 sand, 20,000 lbs. 20/40 sand, 750 gals 15% HCL, 16 gals Cla-Sta, 16 gals. Pen 5, 275 lbs. WG-12, Avg. PSI 1000

2nd Stage - 120,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand, 500 gals. 15% HCL, 18 gals. Cla-Sta, 18 gals. Pen 5, 425 lbs. WG-12, Avg. PSI 1700

Perfs: 1st Stage - 12-0.49" holes 6550-6620

12-0.49" holes 4890-5332 -2nd Stage - 8-0.39" holes 4653-4655

ELL LOG

FORMATION	Color	llard or Soft	8	Bottom	Including indication of all fresh
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ttle Lime	NAME OF THE PARTY	CONTRACTOR	1670	1734	-E log top @ 1700'
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(Attach separate sheets to complete as necessary)

Well Operator Energy Corporation	
(11)	
By John Mork 6/MON	
Tr.s President	

Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

Signed by .



#### DEPARTMENT OF MINES



# Oil and Gas Division

# OIL AND GAS WELL PERMIT APPLICATION DIVISION MINES

TO THE DEPARTMENT OF MINES, Charleston, W. Va.	DATE July 28, 1978
0.4.0 D. 11. 1.D. D. 1	
Surface Owner Russell and Bess Bush Address Baldwin, WV	Company Pacific States Gas & Oil, Inc.  Address P.O.Box 67, Glenville, WV 26351
	Turilla Daialiff
Mineral Owner Luvilla Radcliff	Farm Luvilla Radcliff Acres 112.94
Address Gilmer County	
Coal Owner Eastman Associated Coal	Dievation
Address Pittsburgh, PA	VOULLY.
Coal Operator None	Quadrangle_Glenville
THIS PERMIT MUST BE POSTED AT THE WELL SITE	
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved	SPECTOR
for <u>drilling</u> . This permit shall expire if TO	BE NOTIFIED Paul Goodnight
operations have not commenced by 12-16-78 ADI	
Dobata fords	ORESSSmithville, WV 26178  ONE 477-3660
GENTLEMEN:	
·	
The undersigned well operator is entitled to drill upon the a	bove named farm or tract of land for oil and gas, having fee
title thereto, (or as the case may be) under grant or lease dat  Radcliff made to I. M. Basaw	ed August 18, 1905 by Luvilla
Radcliff made to J. M. Basaw  19_12 inGilmer County, Book73	and recorded on the day of January
NEW WELLDRILL DEEPER	REDRILLFRACTURE OR STIMULATE
OIL AND GAS WELL ORIGINALLY DRILLED I	BEFORE JUNE 5, 1969.
The enclosed plat was prepared by a registered engineer or have been notified as of the above date.	licensed land surveyor and all coal owners and/or operators
The above named coal owners and/or operator are hereby no to make by Section 3 of the Code, must be received by, or filed	tified that any objection they wish to make, or are required with the Department of Mines within ten (10) days. *
Copies of this notice and the enclosed plat were mailed by re or coal owners at their above shown respective addresssame day with the mailing or delivery of this copy to the Depar	Oday before as as Alice
PLEASE SUBMIT COPIES OF ALL	ry truly yours,
	gn Name) Well Operator
WEST VIRGINIA GEOLOGICAL AND	Post Office Box 67
ECONOMIC SURVEY Address P. O. BOX 879 of	Street
MORGANTOWN, WEST VIRGINIA 26505 Well Operato AC-304 - 292-6331	City or Town
	West Virginia 26351
	State
*SECTION 3 If no objections are filed or found by the Depa notice and plat by the department of mines, to said proposed location, the the filing of such plat, that no objections have been made by the coal operat and the well operator authorized to proceed.	rtment of mines, within said period of ten days from the receipt of department shall forthwith issue to the well operator a permit reciting tors or found thereto by the department and that the same is approved
BLAMTET BOND	GIL-3391 PERMIT NUMBER
"I have read and understand the reclamation requirements as set forth Chapter 22, Atticle 4, Section 12 h and will carry out the specified requirement	117 OT
Signed by Signed by	

# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

20 - 16  13 - 10  9 - 5/8  8 - 5/8  400  400  Surface  7  5 ½  4 ½  5250  5250  Perf. Top  Perf. Bottom  Perf. Top	PROPOSED WORK ORDER TO	O XX DRILL		
ADDRESS BOCKNAMON, BY 26201  ADDRESS BOCKNAMON, BY 26201  TELEPHONE 672-2161  ESTIMATED DEPTH OF COMPLETED WELL 5250.ft.  FROPOSED GEOLOGICAL FORMATION, Deventan Shale  TYPE OF WELL.  OIL GAS XX COMB. STORAGE DISPOSAL  RECYCLING WAFER FLOOD OTHER.  TENTATIVE CASING PROGRAM:  CASING AND TURING USED FOR LIST N WELL OR SAYES - CUBELIT.  20.16  13.10  9.518  9.529  9.518  9.559  9.559  9.559  9.579  9.58  9.579  9.58  9.599  9.590  9.59			RESPONSIBLE AGENT	
TELEPHONE 462-6118  RESTIMATED DEPTH OF COMPLETED WELL: 5250_ft_L  ROTARY_XX CABLE TOOLS_ FROPORED GEOLOGICAL FORMATION. DEVONIAN Shale  TYPE OF WRIL: OIL GAS XX COMB. STORAGE DISPOSAL  RECYCLING WATER FLOOD OTHER  TENTATIVE CASING PROGRAM:  CASING AND TUBING USED FOR LIST IN CHARITHELU OR SACKS. CUBIC FT.  20.16  21.10  2				
RESTINATED DEPTH OF COMPLETED WELL: \$250.ft. ROTARY XX CABLE TOOLS  PROPOSED GEOLOGICAL FORMATION. Devocing Shale  TYPE OF WELL: OIL GAS XX COMB. STORAGE DISPOSAL RECYCLING WATER FLOOD OTHER  RECYCLING WATER FLOOD OTHER  TENTATIVE CASING PROGRAM:  CASING AND TUBING USED FOR LIST IN CHMINT FILLULY  20-16  13-10  9-58  8-58  400  400  SUFFace  7  405  5250  250 8ks  3  Peri Top  For Bedium  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET  LICENSMAPE COAL DEPTHS UNKNOWN  IS COAL BEING MINED IN THE AREA? NO BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OF PLAT.  TO DRILL:  SUBMIT FIVE (6) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OWNELLS DEFINED TO 1222, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOID.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (6) COPIES OG - 1, PERFORMANCE BOND ON AND PERMANENT PLAT AND ORIGINAL WELL RECOID.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, PERFORMANCE BOND. REQUIRED FROM TO 1022, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOID.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, PERFORMANCE BOND. REquired forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be based within lan days of receivers.  ALIVER: 1 the underagned, Agent for				
PROPOSED GEOLOGICAL FORMATION: Devotion Shale  TYPE OF WELL:  GIL GAS XX. COMB. STORAGE DISPOSAL  RECYCLING WATER FLOOD OTHER  TENTATIVE CASING PROGRAM:  CASING AND TURING USED FOR LIFT IN CHMINT HILL UP  20-16 DRILLING WILL OR SACKS - CHRIC FT.  21-10 OR SACKS - CHRIC FT.  22-16 DRILLING WILL OR SACKS - CHRIC FT.  23-15 OR SACKS - CHRIC FT.  24-16 DRILLING WILL OR SACKS - CHRIC FT.  25-17 DRILLING DRILLING WILL OR SACKS - CHRIC FT.  25-18 A00 A00 SUFFACE  25-19 A00 A00 SUFFACE  25-19 Perf. Inc.  25-19 Perf. In	The state of the s			· · · · · · · · · · · · · · · · · · ·
TYPE OF WELL:  OIL GAS XX COMB STORAGE DISPOSAL— RECYCLING WATER FLOOD OTHER  TENTATIVE CASING PROGRAM:  CASING AND TURNG USED FOR LIFT IN CLIMIT FILL UP OR SACKY - CURK PT.  20.16  31.10  9.5/8  8.5/8  4.00  4.00  5ufface  7  4.4  5250  5250  5250  5250  5250  5250  5250  5250  526 BR  APPROXIMATE FRESH WATER DEPTHS 100 FRET SALT WATER FEET DEPT Too Port Betton  APPROXIMATE FRESH WATER DEPTHS 100 FRET SALT WATER FEET  APPROXIMATE COAL DEPTHS INTROMEME SOUND AND FERMANENT COIL  SCOAL BEING MINED IN THE AREAY NO BY WHOM?  TO DRILL  SUBMIT FIVE (5) COPIES OF OG - 1. SHOWING ORIGINAL FERMIT NUMBER AND PERFORMANCE BOND. OF PLAT.  FO DRILL DESPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG - 1. SHOWING ORIGINAL FERMIT NUMBER AND PERFORMANCE BOND. OF WELLS ENLIGHED PRIOR TO 1923, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOIL  NUEST ALSO BE SUBMITTED.  OIL ANDOR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (6) COPIES OG - 1, PERFORMANCE BOND. IN ORIGINAL FROM INC.  OIL ANDOR GAS WELL ORIGINALLY DRILLED ON ANDOR APTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOW ING ORIGINAL FROM INGO ORIGINAL FROM INGO ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bund release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receiver.  ALIVER: 1 the undersigned, Agent for				CABLE TOOLS
TENTATIVE CASING PROGRAM:  CASING AND TUBING SIZE  DRILLING  USED FOR  LEFT IN  CAMINT FHI UP  OR SACKS CURIC IT.  20 - 16  13 - 10  9 - 5/8  8 - 5/8  4 00  4 00  Surface  2 - 2  5 /6  4 30  5 250  5 250  8 - 5/8  4 00  4 00  Surface  2 - 2  5 /6  4 30  5 250  5 250  8 - 5/8  4 00  APPROXIMATE FRESH WATER DEPTHS  LIRROWN  SUMMATE FRESH WATER DEPTHS  LIRROWN  SUMMATE FIVE (8) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COI  OF PLAT.  TO DRILL  SUBMIT FIVE (8) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COI  OF PLAT.  TO BRILL  SUBMIT FIVE (8) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COI  OF RACTURE STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1928, FIVE (6) COPIES OG - 1, PERFORMANCE BOND.  OIL AND/OR GAS WELL ORIGINALLY DRILLED DROND, PERMIN FOR JUNE 5, 1929, FIVE COPIES OG - 1, SHOW ING ORIGINAL PERMIT MUMBER AND PERFORMANCE BOND. CO  OF RACTURE STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED DROND AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, PERFORMANCE BOND.  The following walver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  The following walver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  The following walver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  AVER: I the undersigned, Agent for				
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CASING AND TUBING  NULL DRILLING  SUPPLICE  SUPPLICE  PORT AND PORT BOTTOM  PORT BOTTOM  AUTHORITHMENT  AUTHORITHMENT  DRILLING  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE COAL DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE (5) COPIES OF OG - 1, SIOUND OPERMIT FEE, PERPORMANCE BOND AND PERMANENT CO. OF PLAT.  FO DRILL SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OF PLAT.  FO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF 0G - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OF MUST ALSO BE SUBMITTED.  TO PRACTURE - STIMULATE:  OUL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERPORMANCE BOND ON DEPEMBANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERPORMANCE BOND ON DEPEMBANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT HOUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) bours in advance.  The (ollowing waiver must be completed by the coal operator if the permit is to be issued within ten days of receiver.  AVER THE TOTTOM OF THE PLAT AND PERFORMANCE BOND.  The (ollowing waiver must be completed by the coal operator if the permit is to be issued within ten days of receiver.  AVER THE TOTTOM OF THE PLAT AND PERFORMANCE BOND.  The (ollowing waiver must	•	RECYCLI	NG WATER FLO	OODOTHER
CASING AND TUBING  NULL DRILLING  SUPPLICE  SUPPLICE  PORT AND PORT BOTTOM  PORT BOTTOM  AUTHORITHMENT  AUTHORITHMENT  DRILLING  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE COAL DEPTHS 100 FEET SALT WATER FEET PART BOTTOM  APPROXIMATE (5) COPIES OF OG - 1, SIOUND OPERMIT FEE, PERPORMANCE BOND AND PERMANENT CO. OF PLAT.  FO DRILL SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OF PLAT.  FO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF 0G - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND OF MUST ALSO BE SUBMITTED.  TO PRACTURE - STIMULATE:  OUL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERPORMANCE BOND ON DEPEMBANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERPORMANCE BOND ON DEPEMBANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT HOUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) bours in advance.  The (ollowing waiver must be completed by the coal operator if the permit is to be issued within ten days of receiver.  AVER THE TOTTOM OF THE PLAT AND PERFORMANCE BOND.  The (ollowing waiver must be completed by the coal operator if the permit is to be issued within ten days of receiver.  AVER THE TOTTOM OF THE PLAT AND PERFORMANCE BOND.  The (ollowing waiver must	TENTATIVE CASING PROGRA	M:		
SIZE DRILLING WILL OR SAKKS -CHBIG FIT. 10 OR SAKES -C				
20 - 16  13 - 10  3 - 5/8  8 - 5/8  8 - 5/8  4 - 400  4 - 400  5 - 5/8  8 - 5/8  8 - 5/8  4 - 5/8  8 - 5/8  4 - 5/8  5 - 5/8  4 - 5/8  5 - 5/8  4 - 5/8  5 - 5/8  4 - 5/8  5 - 5/8  5 - 6/8  5 - 7  2 - 7  2 - 7  2 - 8/8  4 - 6/8  4 - 6/8  5 - 7  2 - 8/8  4 - 6/8  5 - 7  2 - 8/8  4 - 6/8  5 - 7  2 - 8/8  4 - 6/8  5 - 7  2 - 8/8  4 - 6/8  5 - 7  2 - 8/8  4 - 6/8  5 - 7  5 - 8/8  5 - 7  5 - 8/8  5 - 7  5 - 8/8  5 - 7  5 - 8/8  5 - 7  5 - 8/8  5 - 7  5 - 8/8  5 - 7  6 - 8/8  6 - 8/	- 1	USED FOR	LEFT IN	CEMENT 1-11-1 UP
13-10 9-5/8 5-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-5/8 49-6/		DRILLING	WELL	OR SACKS - CUBIC FT.
9 5/8 5 5/8 4 90 400 5urface 7 7 5 16 4 19 5250 5250 250 aks 3 PUT TOP 2 Per Louton Perf. Solton				
5 19 25 0 5250 5250 250 sks  3				
5 19 25 0 5250 5250 250 sks  3		4.00	7.00	· a · · ·
4 15 5250 5250 5250 250 sks  3 Perf. Top Perf. Bottom  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET  APPROXIMATE COAL DEPTHS Unknown  IS COAL BEING MINED IN THE AREA? NO BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG · 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COLOR OF PLAT.  TO DRILL SUBMIT FIVE (5) COPIES OF OG · 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. COMBUST ALSO BE SUBMITTED.  TO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG · 1, PERFORMANCE BOND. PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG · 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  AVER: I the undersigned, Agent for Coal Company, Owner or Operator of the coal und this lease have examined and place on our mine maps this proposed well location.  We the Coal Company have no objections to said well being drilled at this location code.		400	400	Surface
Perf. Top.  Perf. Bottom  Perf. Bottom  APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET  APPROXIMATE COAL DEPTHS Unknown  IS COAL BEING MINED IN THE AREA? No BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COLOR OF PLAT.  FO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (6) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. OF WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD. OF FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, FERFORMANCE BOND. PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  AIVER: I the undersigned, Agent for	5 1/2			
Perf. Ton Perf. Bottom Perf. Bott	4 ½	5250	5250	250 sks
Liners  Perf. Bottom Perf. Bott	3			
APPROXIMATE FRESH WATER DEPTHS 100 FEET SALT WATER FEET APPROXIMATE COAL DEPTHS UNknown  IS COAL BEING MINED IN THE AREA? NO BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG · 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT CO. OF PLAT.  TO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG · 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. OR WELLS DRILLED PRIOR TO 1929, A FERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOID MUST ALSO BE SUBMITTED.  TO FRACTURE: STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG · 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG · 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receiverent.  AIVER: I the undersigned, Agent for	2			Perf. Bottom
APPROXIMATE FRESH WATER DEPTHS UNKNOWN  IS COAL BEING MINED IN THE AREA? NO BY WHOM?  TO DRILL:  SUBMIT FIVE (8) COPIES OF OG · 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT CO. OF PLAT.  TO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG · 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. OF WELLS BRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.  TO FRACTURE · STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG · 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG · 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receivered.  AIVER: I the undersigned, Agent for	Liners	*		Perf. Top
INKNOWN  IS COAL BEING MINED IN THE AREA?  NO  BY WHOM?  TO DRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COLOR PLAT.  TO DRILL DEEPER OR REDRILL:  SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. OF WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECOLOR MUST ALSO BE SUBMITTED.  TO FRACTURE - STIMULATE:  OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twent four (24) hours in advance.  The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receiverent.  AIVER: I the undersigned, Agent for			prim (pri)	Perf. Bottom
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Code.  For Coal Company	Wo the	a unu place on our mine map	s this proposed well locatio	n.
	providing operator has co	Coal Company ha	ve no objections to said wel tions in Articles 4, 5, and 7,	l being drilled at this location, Chapter 22 of the West Virginia
				The second secon
Official Title		en e	For	Coal Company
				Official Title





NOV 1 4 1978

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### DEPARTMENT OF MINES

## Oil and Gas Division

### OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,			3000	
Charleston, W. Va.	DATI	November 8, 1978		
Surface Owner Russell Bush	Come	racific beates oas a off, fine.		
Address Baldwin, WV	-			
Mineral Owner Luvilla Radcliff			Acres 112.94	
•		ion (waters) Stewarts		
Address Gilmer Co., WV				
Coal Owner Eastman Assoicated Coal			Elevation	
Address Pittsburgh, PA			County Gilmer	
Coal Operator None	Quad	rangle <u>Glenville</u>		
Address	Administration of the Control of the			
S PERMIT MUST BE POSTED AT THE WELL SITE				
provisions being in accordance with Chapter 22,				
the W. Va. Code, the location is hereby approved	INSPECT	OR		
deepening . This permit shall expire if		OTIFIED Paul Goods	night	
erations have not commenced by 3-15-79	ADDRESS	Smithville, WV 2	6178	
Total & Gas Division	PHONE	477–3660		
Deputy Director - Oil & Gas Division				
GENTLEMEN:				
The undersigned well operator is entitled to drill upon	on the above n	amed farm or tract of lan	d for oil and gas, having fe	
title thereto, (or as the case may be) under grant or le			_	
Radcliff made to J.M. Basaw		nd recorded on the $\frac{1}{2}$	5th day of Jan.	
19 <u>12</u> , in <u>Gilmer</u> County, Book <u>73</u>			•	
NEW WELL X DRILL DEEPER	-		ACTURE OR STIMULATE	
OIL AND GAS WELL ORIGINALLY DRI	ILLED BEFOR	E JUNE 5, 1969.		
The enclosed plat was prepared by a registered engin	neer or license	d land surveyor and all c	oal owners and/or operators	
have been notified as of the above date.		a land barroyor are all o	om omicio micio opomeore	
The above named coal owners and/or operator are he				
to make by Section 3 of the Code, must be received by	, or filed with	the Department of Mines	within ten (10) days. *	
Copies of this notice and the enclosed plat were maile				
or coal owners at their above shown respective address same day with the mailing or delivery of this copy to the				
same day with the maning of denvery of this copy to the	ne Department	or mines at Onarieston, w	cec Angima.	
DI TACE CUMULE CODIEC OF ALL	Very tru		200	
PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Na	me) Fom E	els	
Gloring and Dindon's 101	. 0	Well Opera	ntor	
WEST VIRGINIA GEOLOGICAL AND		Post Office Box	N/	
HOOROLLE BURNEL	Address	Street		
P. O. BOX 879 Well	of l Operator	Glenville		
MORGANIUWN, WEST VIRGINIA 20000				
AC-304 - 292-6331		City or Tow	n	
And the second s			1	
		West Virginia		
and the second s			1	
*SECTION 3 If no objections are filed or found-by notice and plat by the department of mines, to said proposed loc the filing of such plat, that no objections have been made by the	cation, the depart	West Virginia State  of mines, within said period ment shall forthwith issue to t	of ten days from the receipt he well operator a permit reciting	
notice and plat by the department of mines, to said proposed loc	cation, the depart	West Virginia State  of mines, within said period ment shall forthwith issue to t	of ten days from the receipt of the well operator a permit reciting	
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# THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO	X DRILL	DEEPEN	FRACTURE-STIMULATE	
DRILLING CONTRACTOR: (If	Known)	RESPONSIBLE AGEN		
NAME S.W. Jack Drilling		NAME John Mork		
ADDRESS Buckhannon, WV		ADDRESS P.O. B	ox N, Glenville, WV	
TELEPHONE472-2161		TELEPHONE 462-8118		
ESTIMATED DEPTH OF COMPL	ETED WELL: 6800 ft.	ROTARY X	_ CABLE TOOLS	
PROPOSED GEOLOGICAL FORM	MATION: <u>Devonian Shal</u>			
TYPE OF WELL: OIL_	GAS X C	OMB STORAG	GE DISPOSAL	
, ·			LOODOTHER	
		· · · · · · · · · · · · · · · · · · ·		
TENTATIVE CASING PROGRAM	1:			
CASING AND TUBING				
SIZE	USED FOR DRILLING	LEFT IN WELL	OR SACKS - CUBIC FT.	
20 - 16				
13 - 10		to the second se		
9 - 5/8				
8 - 5/8	400	400	Surface	
7				
5 ½				
4 ½	6800	6800	400 sks	
2			Pert. Top	
Liners			Perf. Bottom	
		No. 22 A. F.	Perf. Top  Perf. Bottom	
APPROXIMATE FRESH WATER	DEPTHS 100 FEET	CAIT WATER	n en	
APPROXIMATE COAL DEPTHS _	Unknown		FEET	
IS COAL BRING MINED IN THE	ADEA9 No	•	•	
IS COAL BEING MINED IN THE	AREA: NO	BY WHOM? _		
TO DRILL:				
SUBMIT FIVE (5) COPIES (	OF OG - 1, \$100.00 PERMIT	FEE, PERFORMANCE	BOND AND PERMANENT COPY	
OF PLAT.				
TO DRILL DEEPER OR REDRILI	L:			
SUBMIT FIVE (5) COPIES O	F OG - 1, SHOWING ORIGIN	NAL PERMIT NUMBER A	ND PERFORMANCE BOND. ON	
WELLED PRIOR TO	O 1929, A PERMANENT CO.	PY OF THE PLAT AND	THE ORIGINAL WELL RECORD	
MUST ALSO BE SUBMITTEI	D			
TO FRACTURE - STIMULATE:				
OIL AND/OR GAS WELL OR	IGINALLY DRILLED BEFOR	E JUNE 5, 1929 FIVE (5)	COPIES OG - 1, PERFORMANCE	
BOND, PERMANENT PLAT	AND ORIGINAL WELL RECO	ORD.	COLLES CO. 1, FERFORMANCE	
OIL AND/OR GAS WELL OR	IGINALLY DRILLED ON ANI	D/OR AFTER JUNE 5, 19	29, FIVE COPIES OG - 1, SHOW-	
ING ORIGINAL PERMIT NUM	IBER, AND PERFORMANCE I	BOND.	, 111 2 00 120 00 1, 5110 11	
Required forms must be filed	within ninety (90) days of co	moletion for hand release	Inspector to be notified twenty-	
four (24) hours in advance.	,		inspector to be notified twenty-	
		,		
•				
The following waiver must be	completed by the coal opera	itor if the permit is to be	issued within ten days of receipt	
VAIVER: I the undersigned, Agent	for	Coal Company, Owne	r or Operator of the coal under	
this lease have examined	l and place on our mine map	s this proposed well local	tion.	
We the	Coal Company ha	ve no objections to said w	vell being drilled at this location,	
providing operator has co	mplied with all rules and regula	ations in Articles 4, 5, and	7, Chapter 22 of the West Virginia	
Code.				
		Manifestation of the second of	or Coal Com	
•		1.	or Coal Company	

Official Title