







OIL & GAS DIVISION DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

Charleston, W. Va.	September 9, 1980
	DATE
Surface Owner AMAX Coal Company, a Div. of	AMAX Inc. AMAX Petroleum Corporation
Address 105 S. Meridian, Indianapolis, In	
Mineral Owner AMAX Coal Company, a Div. of (Same)	AMAX Fing. B. Hamilton Tract Acres 198
Address	Location (waters) Laurel Creek of Middle For
	of AMAXwIngo B. Hamilton #5 2 Elevation 2470
Address (Same)	District Roaring Creek County County
	of AMAX, Inc. Ellamore, W. VA., 7.5 Minute
Address (Same) ERMIT MUST BE POSTED AT THE WELL SITE	
ovisions being in accordance vil at	
W. Va. Code, the location is hereby approved	
drilling . This permit shall expire if	INSPECTOR TO BE NOTIFIED Robert Stewart
ons have not commenced by 5-30-81	TO BE NOTIFIED Robert Stewart
Q() () () ()	ADDRESS P. O. Box 345, Jane Lew, W. VA. 26
uty Director - Oil & Gas Division	PHONE884-7782
GENTLEMEN:	
The undersigned well operator is entitled to drill upor	the above named farm or tract of land for oil and gas, having
title thereto, (or as the case may be) under grant or lea	ase dated April 3, 19 80 by AMAX Coal proporation and recorded on the day of May
1980, in Randolph County, Book	330 Page 424
	REDRILLFRACTURE OR STIMULAT
OIL AND GAS WELL ORIGINALLY DRIL	LED REPORT HINE 5 1000
The enclosed plat was prepared by a registered engine	er or licensed land surveyor and all coal owners and/or operate
The enclosed plat was prepared by a registered engine have been notified as of the above date. The above named coal owners and/or operator are here	er or licensed land surveyor and all coal owners and/or operate
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The enclosed plat was prepared by a registered enginemate been notified as of the above date. The above named coal owners and/or operator are here to make by Section 3 of the Code, must be received by, or Copies of this notice and the enclosed plat were mailed or coal owners at their above shown respective address arme day with the mailing or delivery of this copy to the PLEASE SUBMIT COPIES OF ALL SEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA GEOLOGICAL AND CONOMIC SURVEY O. BOX 879 Well O	er or licensed land surveyor and all coal owners and/or operate by notified that any objection they wish to make, or are required filed with the Department of Mines within ten (10) days. * by registered mail, or delivered to the above named coal operated day before, or on the Department of Mines at Charleston, West Virginia. Very truly yours, (Sign Name) AMAX Petroleum Corporation Well Operator 1300 West Belt dress of Houston
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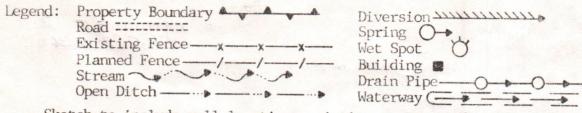
"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12 and will carry out the specified requirements."

Signed by

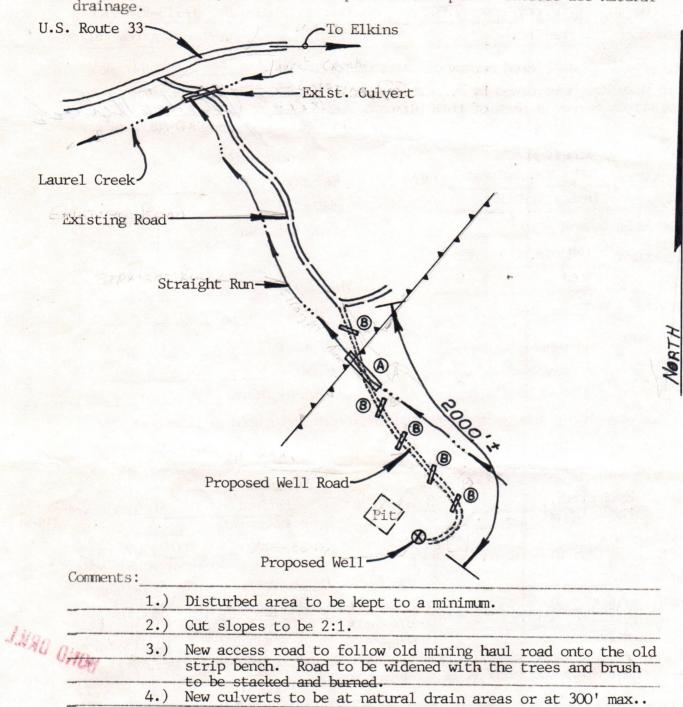
THIS IS AN ESTIMATE ONLY ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

DRILLING CONTRACTOR:	1 O manufacture and the same an	DEEPEN FRACTURE STIMULATE				
Ray Resources	(If Known)		RESPONSIBLE AGENT:			
NAME Ray Resources			NAME Bob Schmalhausen			
ADDRESS 630 Commerce		ADDRESS 1300 West Belt, Houston, TX 7704				
TELEPHONE 304/344-8	393		978-7700			
ESTIMATED DEPTH OF COM	IPLETED WELL: 5,100'	ROTARY	CABLE TOOLS			
PROPOSED GEOLOGICAL FO	RMATION:					
TYPE OF WELL: OI	LGAS X	COMB. *STORA	GE DISPOSAL			
TENTATIVE CASING PROGR		LING WATER F	LOOD OTHER			
CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFE UP OR SACKS - CUBIC FT.			
20 - 16.	The state of the s	,				
13 - 10	Conductor	<u>+</u> 50'	Cmt to Surface			
9 - 5/8						
8 - 5/8	Surface	<u>+ 1200'</u>	Cmt to Surface			
7						
5 1/2	Production	5100'	Cmt to Cover all			
4 ½	FIOGUCCION		potential completion zon			
2		is onexe lipda fin t	Perf. Bottom			
Liners			Perf Top 12.1 gaves			
		NAME AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY OF	Perf. Bottom			
TO DRILL: SUBMIT FIVE (5) COPORT PLAT. TO DRILL DEEPER OR RELEVANCE (5) COPORT WELLS DRILLED PRICEMENT ALSO BE SUBMITED PRICEME	IES OF OG - 1, \$100.00 PER DRILL: IES OF OG - 1, SHOWING OR DR TO 1929, A PERMANENT ITTED.	AMIT FEE, PERFORMANCE	AND PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD			
BOND, PERMANENT P OIL AND/OR GAS WEI ING ORIGINAL PERMI	L ORIGINALLY DRILLED BE LAT AND ORIGINAL WELL IN LORIGINALLY DRILLED ON TOUR NUMBER, AND PERFORMANT (90) days note.	RECORD. N AND/OR AFTER JUNE 5, NCE BOND.	(5) COPIES OG - 1, PERFORMANCE 1929, FIVE COPIES OG - 1, SHOW- case. Inspector to be notified twenty-			

Orficial Title



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



Please request landowners cooperation to protect new seeding for one planting season.

Ditches to be cut on uphill side of road where necessary.



PETROLEUM CORPORATION

1300 WEST BELT

P. O. BOX 42806

HOUSTON, TEXAS 77042

TELEPHONE (713) 978-7700

TELEX 79-1435

FENTON EASTERLING Vice President Production

April 30, 1981

State of West Virginia
Department of Mines
Oil & Gas Division
Charleston, West Virginia 25305

MAY - 4 1981

Gentlemen:

OIL & GAS DIVISION
DEPT. OF MINES

We respectfully request permission to change the names of the following wells located in Randolph County:

Permit No. Propo	sed Lease & Well No.
47-083-0356	Parks No. 1
47-083-0357	Parks No. 2
	Parks No. 3
47-083-0359	Towers No. 1
47-083-0360	Towers No. 2
47-083-0361	Blackburn No. 1
47-083-0362	Blackburn No. 2
47-083-0452	Crowl No. 1
47-083-0453	Crowl No. 2
47-083-0454	Crowl No. 3
47-083-0455	Greer No. 1
47-083-0456	Greer No. 2
	47-083-0356 47-083-0357 47-083-0358 47-083-0359 47-083-0360 47-083-0361

If additional information is required, please advise.

Regards,

I. Fenton Easterling

HFE:mlm

Formation Color Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water . * Remarks
			SELECTION OF THE SELECT
Big Lime Big Injun Sand & Shale Pocono Sand & Shale 4th Sand Sand & Shale 5th Sand Sand & Shale Speechly Sand & Shale Balltown Sand & Shale Balltown Sand & Shale Biley Sand & Shale Benson Sand & Shale Benson Sand & Shale Sand & Shale Little Sand & Shale Haverty Sand & Shale Haverty Sand & Shale	1,299' 1,373' 1,421' 1,492' 1,510' 1,894' 1,928' 2,121' 2,149' 2,280' 2,300' 2,363' 2,371' 3,640' 3,695' 3,793' 3,821' 4,005' 4,028' 4,234' 4,259' 4,958' 5,010' 5,061' 5,083' 5,188' 5,200'	1,372' 1,420' 1,491' 1,509' 1,893' 1,927' 2,120' 2,148' 2,279' 2,362' 2,370' 3,639' 3,639' 3,694' 3,792' 3,820' 4,004' 4,233' 4,258' 4,957' 5,009' 5,060' 5,082' 5,187' 5,199' 5,350'	PO BAD THA HO C THE SECRETARY W
Total Depth		5,350'	
			The et age of the second
	-		
	The second secon	the second secon	

Date August 26 , 19 81

APPROVED AMAX PETROLEUM CORP. Owner

By Reggie Johnson

OG-10 (Revised)

RECEIVED

Date: August 26, 1981
Operator's
Well No. Towers #2

API Well No. 47- 083-0360

AUG 3 1 1988tate of West Virginia
Department of Mines
OIL AND GAS DIVISION and Gas Division
WELL RECORD

Well Type: Oil (If ''C	Cas", Produ	\underline{X} Liquid I ction X / U	nject: Inderg	ion/ Waste round storage	/ Deep	_/ Shallow_X_/
						k River
						Ellamore, W.Va
Well Operator						
Address	1300 West	Belt		Address	Charleston	National Plaza
		Texas 77042				W. Va. 25301
Permitted Work:	Drill X /	Covert	Dri	11 deeper	Redrill	1
remitted work	Fracture or	stimulate	/ P	lug off old form	nation /	
	Preferate n	ew formation		Other physical	change in wel	ll (specify)
	Treforace in	cw ronnecton_		Company Proj		
	0.42	0.400		Oil & Gas	Inspector for	This Work:
Permit Issued on	9/3	0/80				rt
						5 26379
						Va. 26378
Geological Targe	t Formation:	E	.k	Depth	5,100'	feet
Depth of c	ompleted wel	1, 5,350'	fe	et Rotary_	X / Cable	rools/
Water stra	ta depth: Fr	esh 20	f	eet; Salt;	fee	et.
Coal seam	depths:			Is coal l	being mined in	n the area?
Work was c	ommenced	3/18/81		, and comple	eted 4	76/81
Casing and Tubin	g Program					C Fill H-
0	Speci	fications		Footage		Cement Fill-Up
Tubing Type Siz	e Grade	ber It wew	Used	For drilling		III DA. DCa.
Conductor 1	5"	X		22'		lsx. CaCl ₂
Fresh Water 11 ³	/4"	X		44'	44'	1 sx. CaCl ₂
Coal						
Intermediate 8-5		23#/ft. X		1,180'	1,180'	Cmt. to surf.
Production 4½	"	10.5#/ft X		5,307'	5,307'	Cmt. to 2000'
Tubing $ z^{-3} $	/8"	4.6#/ft X			5,066'	
Liners						
U-11 Market d	lotaile:					
Well Treatment d	a 5.062'-	67' & Haver	-y @	4,985-5,002'&4	4,961'-81' w	7/1SPF. Frac'd w/
250 gal 159	HC1 & 90 b	bls. gel & :	10,00	0# 80/100 sd.	@ 34 BPM &	2,500#. Followed
/215 bblc of	el & 40.00	0# 20/40 sd.	. @ 3	8 BPM & 2,300	. Periorate	ed belison e
2 7031-906' W	/TSPF Fra	c'd w/500 ga	als.	15% HCl & 90 k	obls. gel &	10,000# 80/100
18 BPM & 3,30	0#. Follow	ved w/235 bb	ls. g	el & 30,000# :	20/40 @ 32 E	3PM & 3,200#.
Danfarated Di	100 0 3 64	12'-79' w/1S	PF. F	rac'd w/500 ga	al: 15% HCl	& 90 bbls. gel
10 000# 80/10	0 @ 41 BPN	1 & 1,900#.	Follo	wed w/315.bbl	s. gel & 40	,000# 20/40 @ 42
BPM & 1,500#.	0 6 41 511		5/2	Oil. Tritial	U. open flow	3/22/2024 Bbl/d
BPM & 1,500#. Cas: Initial of	pen flow,	M	:I/d	Ull: Initial	open rrow,_	Bb1/d
Final open	n flow,	942 M	D/1:	Final) often 72	hours shut in.
Static Rock Pre	ssure,	1,675 psig	3 (sur	lace measurement	L) alter_/2	Tiodis Silde IIII
					(Well los	on reverse side)

DEPARTMENT OF MINES



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION

DEPT. OF MINES

Permit No. 083-0360

An A V	PerRoleum		CASING AND	DRILLING	Left in Well	PACKER	15
ddress Ho.V.			Size				
arm B: HA			16			Kind of Packs	
Vell No #5	#2		13			Siz. of	
	Reek County RANDOI	PH	814				
rilling commenced			6%				
	Total depth		5 3 16				7
	Depth of shot		2			Perf hottom	-
	/10ths Water in		Liners Used			_ Perform	
pen flow after tubing_	/10ths Mcrc. in	Inch					
ohe		u Ft.	CASING CEME	NTED	SIZE	No FT	Date
lock pressure	lbs	_hrs.	NAME OF SER	VICE COMP	ANY		
Dil	••		COAL WAS EN	COUNTERE	D AT	_FEET	INCHES
Fresh water	feet	_feet	FEET	INC	HES	_FEET	INCHES
Salt water	feet	feet	FEET	INC	HES	_FEET	INCHES
	AY RESOUR	100	c PiG	14			
Drillers' Names	A Leson					1	
Remarks							
110.0	R'6.	5	PUD				

3-16-81

Robert Stewart

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

sysult No.	io THEO			Well	No	
MPANY	nachdalla (del conscional del la superior de la seguina		ADDRESS	All and a second a	La L	30
		DISTRICT			The state of the s	all the second
RM		DISTRICAL			The state of the s	-10
ling Material Used						
I ac	cation	Amount	Packer	Location		
			DRIDGES	CASIN	G AND TUBIN	G
PLUGE USED A	NO DEPTH PLACED					
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION LUCATION	RECOVERED	SIZE	LOST
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DATE						
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STATE OF WEST VIRGINIA

DEPARTMENT OF MINES



JAN1 0 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

Permit No. V35 - 036 U	The design of the contract of		Oil or	Gas Well
Company AMAX Pet	CASING AND TUBING	USED IN DRILLING	LEFT IN	PACKERS
Address HOUSTON TX	Size			and the same of th
Farm B. HAMilTON	16			Kind of Packer
Well No # 5	13		Village Service	
District KOAKING CREEK County KANDE	10 81/4	3		Size of
Drilling commenced 3-16-81	6%		And the second	Depth set
Drilling completedTotal depth	5 3/16			
Date shotDepth of shot	3			Perf. top
Initial open flow/10ths Water in				Perf. top
Open flow after tubing/10ths Merc. in	Inch		**************************************	Perf. bottom
/olume		TED	SIZE	No. FTDate
cock pressurelbs	1			No. FTDate
ilbbls., 1st	24 hrs. COAL WAS ENC	OUNTERED A	Т	FEETINCHES
resh waterfeet				FEETINCHES
alt waterfeet				EETINCHES
rillers' Names				
Marks: OKI TO Reley	5-0			

1-5-83

Robert Stella WELL INSPECTOR

211

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No				We	Il No	
COMPANY			ADDRESS	Section 2019 and the Alberta Age		
FARM		DISTRICT.		COUNTY		
Filling Material Used						
iner Loc	ation	Amount	Packer	Location		
PLUGS USED A	ND DEPTH PLACED		BRIDGES	CASIN	G AND TU	BING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST
					7	
						CA.
			K COLUMN TO THE REAL PROPERTY.			
					1 10 10 1	
				+		
	N Maria					
			A ye tay a seed to ball points.			
Section 1						
rillers' Names	:			7	,	
emarks:						
				•		

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

DATE



State of West Virginia Department of Mines Gil and Gas Division Charleston 25305

WALTER N. MILLER DIRECTOR THEODORE M. STREIT ADMINISTRATOR

February 1, 1983

Amax Petroleum Corp. P. O. Box 42806 Houston, Texas 77042

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

PERMIT NUMBER	FARM AND WELL NUMBER	DISTRICT
RAN-0358	B. Hamilton, Parks #3	Roaring Creek
RAN-0359	B. Hamilton, Towers #1	Roaring Creek
RAN-0360	B. Hamilton, Towers #2	Roaring Creek

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours.

Theodore M. Streit, Administrator Office of Oil & Gas-Dept. Mines

FERC-121

1.0 API well number: 4 (If not available, leave blank,	14 diaire)		47-083-0360		
			47 003 0300		•
2.0 Type of determination being (Use the codes found on the of this form.)		103 Section of N	(CPA	Category Code	
		Section of N	IGFA	Or Or	77 : 1001
3.0 Depth of the deepest comple location: (Only needed if se or 107 in 2.0 above.)	NECTORIZED TO THE PERSON OF TH		5068	feet	(20)
4.0 Name, address and code num applicant: (35 letters per lin maximum. If code number i available, leave blank.)	not AM	O. Box 42806		DEFT.	© 000446 :
		ouston		X 77042 Zip Code	
5.0 Location of this well: [Comor (b).] (a) For onshore wells (35 letters maximum for name.)	Ro Field	paring Creek Name		WV State	
(b) For OCS wells:	i				
	Area	Name		Block Number	
		Date of Le Mo. Day		OCS Lease Number	
(c) Name and identification of this well: (35 letters a maximum.)		wers No. 2			
(d) If code 4 or 5 in 2.0 abo of the reservoir: (35 lett maximum.)					
6.0 (a) Name and code number of purchaser: (35 letters an maximum. If code number available, leave blank.)	nd digits	*			Buyer Code
(b) Date of the contract:		*	Mo. Day	Yr.	
(c) Estimated annual produc	etion:		180	MMcf.	
		(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete decimal places.)	to 3	*	*	_·_*_	_·-*_
8.0 Maximum lawful rate: (As of filing date. Complete decimal places.)	to 3	2.514			
9.0 Person responsible for this ap	plication:	rman B. Gove		Vice Pre	sident
Agency Use Only	Name			Title	DIAGIIC .
Date Received by Juris. Agency			4		
OCT 1 3 1981	Signa				
Date Received by FERC		tober 2, 1981 Application is Complete		713/978-7700 Phone Number	_

* No contract has been finalized or sales made as of the date of this application.

FT7900806/2-2

1AN 1 4	
PARTICIPANTS: JAN 141982	BUYER-SELLER COI
WELL OPERATOR: AMAN Tetroleum Corp	000446
FIRST PURCHASER: Columbia Gas Trans	Corp
OTHER:	
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER	5-0375 = 1500 +
91 10 12 102 202 102 10	
Uso Above File Number on all Communications Qualifies	Thussey
Relating to Determination of this Well	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MIS	SSING
ITEM NO.	
1. FERC -121 Items not completed - Line No.	7.8 all 8.0 bed
2. IV-1 Agent W.M Woodroe	
3. IV-2 Well Permit	
4. IV-6 Well Plat	
5. IV-35 Well Record Drilling	Deepening
6. IV-36 Gas-Oil Test: Gas Only Was Oil Prod	luced? Ratio
7. IV-39 Annual Production years	
8. IV-40 90 day Production Days off	line:
9. IV-48 Application for certification. Complete?	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete	? Affidavit Signed
18-28. Other: SurveyLogs Geologica	1 Charts
Structure Map1: 4000 Map	
(5) Date commenced: 3-18-81 Date completed 4-6	-81 Deepened -
(5) Production Depth: 5062-67 4985-5002	
(5) Production Formation: 4th Elk Haventy	Panson Ril
(5) Final Open Flow: 942 mcf	Triser.
(5) After Frac. R. P. 1675 # 72 has	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(0)	PSIG from Daily Rep
(5) Oil Production: From Completion Report	
0-17. Does lease inventory indicate enhanced recovery being do	
0-17. Is affidavit signed?Notarized	
oes official well record with the Department confirm the submit	
dditional information Does computer program com	
as Determination Objected to By Whom?	

Het

FORM IV-54WC [12-78]	Date October 2 1981
Towers No. 2	T VIRGINIA Operator's
NGPA Sec. 103 DEPARTMENT OF MINES, OI	L AND GAS DIVISION Well No
norm see. 103	API Well No. 47 - 083 - 0360 State County Permit
WELL CLASSIF	ICATION FORM
NEW ONSHORE PR	ODUCTION WELL
NGPA Secti	on 103
	DESIGNATED AGENT W. M. Woodroe
	ADDRESS Charleston National Plaza
	Charleston, W. Va. 25301
WELL OPERATOR AMAX Petroleum Corporation	LOCATION: Elevation 2470'
ADDRESS P. O. Box 42806	Watershed Laurel Creek of Middle Fork River
Houston, Texas 77042	Roaring Dist. Creek County Randolph Quad Ellamore 7.5
GAS PURCHASER *	Gas Purchase *
ADDRESS*	Contract No.
*	Meter Chart Code Date of Contract *
* No contract has been final in a '	
* No contract has been finalized or sales	made as of the date of this application.
* * * * * * * *	* * * * * * * *
Date surface drilling was begun: March 18	, 1981
Indicate the bottom hole pressure of the well a	nd explain how this was calculated:
BHP = 1881	PSI = Shut-in wellhead pressure in PSIA
BHP = PSI + $\frac{(0.01878)}{(PSI)}$ (G) (L)	G = Gas gravity (assuming 0.65)
$BHP = PSI + \frac{1}{10000000000000000000000000000000000$	L = Average length of flow string (feet) TSI = Average shut-in well temperature
PST - 1600	(degrees Rankine)
PSI = 1690 G = .65	PHM + 530
I. = 5066	= TSI
TCT - 540	Dum - domese D -bl
within a proration unit, in existence at the timeservoir from which gas is or will be produced in commercial quantities or on which surface drawas capable of producing gas in commercial quantities or on the best of my information, knowledge and believe	ing been first sworn according to law state that ermination is sought was begun on or after February 19. deral well spacing requirements and the well is not me surface drilling began, which was applicable to the and which applied to any other well producing gas illing began on or after February 19, 1977, and which tities. I state, further, that I have concluded, to f, that the well for which this determination is sought against the same of any information and the state of the same
	71- 8 8
	Morman B. Sove
	1
TEXAS STATE OF WEST VIRGINIA	
HARRIC	
COUNTY OF HARRIS, TO WIT:	
I, <u>Gloria Kessler</u> , a Notar	y Public in and for the state and county aforesaid,
do certify that Norman B. Gove , whose name	is signed to the writing above, bearing date
the 2 day of October 10 81 has a	I1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
Given under my hand and official se	al this 6th day of October 198/
My term of office expires on the	al this 6th day of October, 1981. Standard of 1984.

[NOTARIAL SEAL]

Storia & Kesslan