KEEN MOUNTAIN-2-8

API No. 45-027-20269-00-03	VDMR Well Rep. No
Operator TEXAS INTERNATIONAL PE	DMQ File No. BU-155 (Repermitted to NRM Petrol ETROLEUM CORPORATION Co. 731)
	ONTAS COAL COMPANY ET AL)
Co. Well No. ISLAND CREEK #6	
County BUCHANAN	Quadrangle KEEN MOUNTAIN - 7-1/2'
Location (UTM) N 4,119,430; E	416,920 UTM Zone <u>17</u>
(Lat. and Long.)	
	Province APPALACHIAN PLATEAUS
Elev. (specify) <u>1895.' GR.</u> TD INITIAL FLOW - SHOW	5110' Form. at TD DEVONIAN SHALE Age DEVONIAN
Date compl. or abandoned AUGUST	2, 1977
Pocult GAS WELL	
Gas Shows	
Gas Pays 4933 to 4980'	
Main Production 3980' to 4933'	Prod. Form. BIG LIME, INJUN, WEIR,
	Age MISSESSEPPIAN
Treatment: BROKE DOWN BEREA WITH	650 PSI. FRACTURED WITH 704 BARRELS OF
JELLED WATER, 50,000 POUNDS OF	F 20/40 SAND. AVERAGE INJECTION RATE WAS
21 BARRELS PER MINUTE. AVERAGE	GE INFECTION PRESSURE WAS 1050 PSI.
Initial Production	
FINAL FLOW - 14,900 CU. FT.	
Oil shows	
Water FW at	at at
SW at	at at
	1060' to 1065'; 1242' to 1245'; 1310' to 1319
Plat X Plotted X	Completion Report X
	g
Samples Interval Sheet	The same of the sa
Sample Interval	The same of the sa
Remarks	
	s X Gamma X Neutron
	Other TEMPERATURE, CASING COLLAR,
	CALIPER, INDUCTION

Formation	Тор	Datum (Subsea)	Thickness	Tall (4)
Co. V. T.				
/ .				
			d Minas	
	1000 Fix 150		- Salesian Carlo	
	a state	3. 100%		
	-			
Remarks				
References				2-8-3401
References				
References			R 31, 1977	

(Note: UTM measurements in meters, all others in feet)

File BU-155

DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219

NCTICE OF INTENTION TO (DRILL)

OIL OR GAS WELL

feet to the inch, and showing information require and the 1966 Cumulative Supplement, must be sub	d by Section 45.1-114, Code of Virgin	ia, 1950, 1954
copies sent by registered mail to all persons defin		
TO: Division of Mines and Quarries	Charleston, West Virginia	
Drawer V	Place	
Big Stone Gap, Virginia 24219	May 16,	,19 77
	Date	
Gentlemen:		
The undersigned proposes to begin as soon as a pe	rmit therefor is obtained from the Divis	ion of Mines
and Quarries, to drill, redrill or deepen (strike o	ut two) a well for oil or gas on the Big	Vein
Farm, comprising 876.08	acres, in the Garden	District of
Buchanan County, Virginia, hav	ing the fee title thereto, or as the case	may be, under
grant or lease dated July 11, 1972	, made by Yukon Pocahontas Coal C	o., etal
to Island Creek Coal Company and recorded		,19 72
in the office of the County Clerk for said County		•
The proposed location of the well, as shown on th		850
(feet/) South of Latitud		and
about 5.550 (feet/	West of Longitude 81° 55	
A plat or map, in triplicate, on a scale not small cation of the well and other information, required and the 1966 Cumulative Supplement is attached will, redrill or deepen the aforementioned well he Section 45.1-114, above cited, as follows (list needlitional space is required): 1. Mr. Richard M. George, Manager, Georgia- 2. Mr. Richard Bolen, Chief Engineer, Jewel 3. Mr. Guy Richardson, Director of Engineer 4.	d in Section 45.1-114, Code of Virginia hereto. Copies of the plat and notice of lave been sent to all interested persons ames and mail address of each. Use ba Pacific Corporation, Box 909, Augu 1 Coal & Coke Corp., Vansant, VA	a, 1950, 1954 of intention to as required by ck of sheet if sta, GA 30903
6.		
	Very truly yours,	
Signature of officer or certifying party:	Texas International Petroleum Drilling Company or C pe	
Name	Diffing Company of Cipe	GIO
TAMING	Street Address	
Title	Charleston, West Virginia	
	City or Town and Sta	te
	211/ 51 121111 2114 214	Total Control of the

Date Received

5-24-77 Well No.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES AND QUARRIES BIG STONE GAP, VIRGINIA 24219 PHONE 703-523-0335

APPLICATION FOR PERMIT TO (DRILL)

CIL OR GAS WELL

Section cited. To be submitted in duplicate, one	
The second secon	dollars and bond and surety therefor, as specified by
Division of Mines and Quarries.	a dopy to be referred to approach after deficit by
O: Division of Mines and Quarries	
Drawer V	Charleston, West Virginia
Big Stone Gap, Virginia 24212	Place
, , , , , , , , , , , , , , , , , , ,	
	May 16, 1977 Date
Gentlemen:	
	ermit to drill, redrill, or deepen (strike out two) a
4	m, comprising 876.08 acres, in the Garden
	, Virginia, having the fee title thereto, or as the
ose may be, under grant or least dated July	
	Creek Coal Company
The state of the s	
and recorded on the 31st day of Augus Clerk for the said County in Book 209 pag	The stage of the s
	ocation plat or map submitted to the Division of Mines
	Notice of Intention to Drill, Redrill or Deepen a Well
or Oil or Gas on the day of	19
	C6 of Texas International Petroleum Corp.
company, etc.) It is proposed to drill this well t	to a depth of about 5 000 feet.
	distant from the nearest property or lease line; about
430 feet distant from the nearest mini	
nd/or about 5500 feet distant from the nearest	
gas	well.
	.S. Postal Money Order, in the amount of twenty-five
	ering fee fro a Permit to Drill a Well for Cil or Gas,
	a, 1950, 1954 and the 1966 Cumulative Supplement.
	th the provisions of Chapter 9, Title 45, Code of Vir-
inia, 1950 and the 1966 Supplement, for this we	WARRY OF THE PROPERTY OF THE P
with of (give status of) Surety Band	No. 48 5 10574 BCA
correspondence regarding this well should be add	ressed to
	Very truly yours,
ignature of officer or certifying party:	
ignature of officer or certifying party:	Texas International Petroleum Corporation
ignature of officer or certifying party: Jun Worten Ry Con Charle Name	
ignature of officer or certifying party: Jun Blanton Ry CM Church Name Pun m. L.	Texas International Petroleum Corporation
ignature of officer or certifying party: Jun Donton Ry Con Charle Name Pur md. Title	Texas International Petroleum Corporation
ignature of officer or certifying party: Jun Donten Ry an Church Name Pun m.d. Title	Texas International Petroleum Corporation Drilling Company or Operator
Jun Worten Ry an Charle Name Title	Texas International Petroleum Corporation Drilling Company or Operator Street
Jun Donton Ry (2) Charles Name Pun m.d. Title	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston
ignature of officer or certifying party: Im Blanton Ry CM Church Name Pun M.L. Title	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town
Pun Mame Ry & M Charle Pun m.d. Title	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia
Space below this line is	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State
Space below this line is ACTION OF DIVISION	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES
Space below this line is ACTION OF DIVISION cceived on 5-24-,197	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7.
Space below this line is ACTION OF DIVISION Approved and Permit (no. 269) granted	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7.
ACTION OF DIVISION Coccived on 5-24- ,197	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7.
Space below this line is ACTION OF DIVISION Approved and Permit (no. 269) granted Denied	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7.
Space below this line is ACTION OF DIVISION Coceived on 5-24-,197 Approved and Permit (no. 269) granted Denied	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7. on 6-10 - ,1977
Space below this line is ACTION OF DIVISION Approved and Permit (no. 269) granted Denied	Texas International Petroleum Corporation Drilling Company or Operator Street Charleston City or Town West Virginia State for the use of the Board only. CF MINES AND QUARRIES 7. on 6-10 - ,1977

DM Form 7						
(To be filled in by Division of Mines)		MONWEALTH O	of Virginia OR AND INDUSTRY	Ď: :-	be filled in by ion of Mines)	
BUCHANAN		ISION OF			I.C 6	2
COUNTY CARDEN		G STONE GAP,		Permit No.	210	
District	OIL AND GAS	DEEPEN WELL COA	ED APLETION REPORT	Office No.	90 N S	
KEEN MOUNTAIN	OIL AND GAS	ABANDONI			at	
Bt - 155	be submitted to t	the Division of M completion of w	ectrical log, if made, must Mines within 30 days after ell, as required by Section			
Company Texas Internat			Address Suite 1	020-One Va	allev Squa	re
Corporation Farm Big Vein (Yukon			Charleston, Wetal 876.0	est Virgir 8	ia 25301	
County Buchanan Well No. (Company) Islan			District Garden Elevation (ground sur			
Location: (Give direction and d nates shown on location graphic map of area.)	istance in feet or t	tenths of a m	ile from two (2) locat	tion reference p	oints or map co	oordi-
	th	ofLa	titude 37 ⁰ 15			_ and
			ngitude 81 ⁰ 55			
Surface of tract is owned in fee sin Address Box 909, Augu	mple by Big Ve sta, Georgia	ein (Yuko a 30903	n Pocahontas C	oal Compar	ny, etal)	
Mineral rights are owned by B Address Box 909, Augu	<u>ig Vein (Yuk</u> sta, Georgia	kon Pocah a 30903	ontas_Coal_Com	pany, eta	L)	
Location made by Island Drilling commenced June Drilling completed July	20, 1977	D	Guy Richardso rilling contractor App ddress Jesse, We	alachian I	Orilling C	ompa
Well completed as well or	E.		duress			
Well abandoned at N/A	feet on	N/A	: R	eason N/A		
Well plugged on N/A Total depth 5107	1000 011 ==	, 19 A	Affidavit filed	N/A	, 19	9
Total depth 5107 Commenced producing on Shu	t-in waiting	feet. S on pipe	teel line measurement . line_connection	5110 on.		feet.
Oil Well Initial production, oil: 1st 24 hou	N/A		bbls · 2nd 24 hours	N/A		bbls
After shot on N/A				lbs.	N/A	
After shot onN/A				qts.	N/A	
1st 24 hours N/A	bbls.: 2nd 24	hoursN/A		qts.		_ bbls.
			lay after producing	N/A		days weeks
Gravity and grade of oil	N/A				N/A	
Oil pays at (1) N/A	_ feet toN/A	feet.	Oil shows at (1) $\frac{1}{2}$ $\frac{1}{2}$	V/A fee	t to N/A t to N/A	feet. feet.
(2) N/A (3) N/A	feet to N/A feet to N/A	feet. feet.	$(2) \frac{1}{N}$		t to N/A	feet. feet.
(4) N/A	feet to N/A	feet.	(4) $\stackrel{\Gamma}{=}$	V/A fee	t to N/A	feet.
Main production at N/A	feet to N/A		(5) 1	N/Afee	t to N/A	feet.
Gas Well Initial open flow, gas:			aged 2			
Volume 14,900				The		
After shot on				14		
After shot on				q.cs.		
1st 24 hours		cu ft., 2	2nd 24 hours			_ cu ft.

from	Rock pressur Settled produ	e: Initial	740	lbs.; after	hor	11'S	1b	s. days
See	Gas pays at	(1) <u>4933</u> (2) <u>(3)</u>	feet to4	980 feet. Gas sho	(2)		feet to feet to feet to feet to	feetfeetfeetfeetfeetfeetfeet
Size Used in Dellaring Left in Well Perforated Kind Size Set at	Coal: from	from from from down B	feet; (2)inches toinches to feet to feet to feet to gerea with d. Average = 1050 PS	feet; (3) feet inches, to feet with feet with feet with feet with feet with feet in feet with feet in feet with	fee inches; from 1065 (quantity (quantity (quantity with / 0) 100 100 100 100 100 100 100 100 100	t; (4) 	feet inches. F inches. F acid. acid. acid. s of ge r minut	thes to 154 rom: 1242 1245 rom: 1310 1319 11ed water
Casing Cemented: 11-3/4" inch. from Surface feet to Surface fe		CA	SING AND TUBING			Pac	KERS	
Casing Cemented: 11-3/4" inch. from Surface feet to 264' Date June 22, 1977	Size			Perforated	KIND	Size		Set at
Casing Cemented: \frac{11-3}{4\cdots} \frac{\text{inch. from}}{8-5/8\cdots} \frac{\text{Surface}}{\text{inch. from}} \frac{\text{Surface}}{4003\cdots} \frac{\text{feet to}}{5074\cdots} \frac{\text{Date}}{\text{June}} \frac{\text{22, 1977}}{\text{June 25, 1977}} \frac{\text{June 25, 1977}}{\text{June 25, 1977}} \frac{\text{cenarks:}}{\text{Chut down, depths, dates; fishing jobs, depths, dates; caving; other notes)}}{\text{June 29, 1977} - \text{fished for cones, recovered.}} \frac{\text{Yes}}{\text{(No)}} \frac{\text{Yes}}{\text{(No)}} \frac{\text{if sacks for same are furnished by urvey}}{\text{Use bin inch. from \text{3.57}} \text{2.574} \text{3.574} \text{3.574} \text{3.577} 3.	16" 11-3/4" 8-5/8"	34 . 264 . 1557 .	34' 264' 1557'	4969' - 4975'				
Casing Cemented: \frac{11-3/4"}{8-5/8" inch. from \frac{\text{Surface}}{\text{feet to}} \frac{264!}{1557!} Date \frac{\text{June 22, 1977}}{\text{June 25, 1977}} \frac{\text{June 25, 1977}}{\text{June 29, 1977} - \text{fished for cones, recovered.} \frac{\text{Virginia} \text{Geological Survey}}{\text{Virginia}} \frac{\text{Virginia} \text{Virginia}}{\te						Lī	NERS	
Casing Cemented: \frac{11-3/4"}{8-5/8"} inch. from \frac{\text{Surface}}{\text{feet to}} \frac{264'}{1557'} Date \frac{\text{June 22, 1977}}{\text{June 25, 1977}} \frac{\text{June 25, 1977}}{\text{June 25, 1977}} \frac{\text{June 29, 1977}}{\text{June 29, 1977}} \frac{\text{June 25, 1977}}{\text{June 29, 1977}} \frac{\text{June 29, recovered.}}{\text{Vision of the for cones, recovered.}} \frac{\text{Vision of the Virginia Geological Survey}}{\text{Vision of the for same are furnished by a member of the Virginia Geological Survey}} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey}} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey}} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey}} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}}, \text{ if sacks for same are furnished by a member of the Virginia Geological Survey} \frac{\text{Ves}}{\text{No}} \frac{\text{Ves}}{\text{No}} \frac{\text{Ves}}{\text{No}} \frac{\text{Ves}}{\text{No}					Size			PERFORATED
marks: (Shut down, depths, dates; fishing jobs, depths, dates; caving; other notes) une 29, 1977 - fished for cones, recovered. mples or cuttings will be available for examination by a member of the Virginia Geological Survey					(inch)	(ft.)	(ft.)	(ft. to ft.)
June 29, 1977 - fished for cones, recovered. amples or cuttings will be available for examination by a member of the Virginia Geological Survey						ate June ate July	25, 197	7
Vill be furnished the Virginia Geological Survey upon request	marks: (S June 29	hut down, depths , 1977 - fi	s, dates; fishing jo shed for c	obs, depths, dates; caving ones, recovered.				
Vill be furnished the Virginia Geological Survey upon request								
opy furnished herewith or will be submitted on or by Logging Company, 19	Vill be furni	shed the Virginia	Geological Surve	ey upon request				(No)
	opy furnishe	ed herewith	or will	be submitted on or by -1	ogging (Company		, 19
The operator requests that information given herein and log or logs be kept confidential for a period of ninety days as	-							

		TO	JL 1
Well	No.	IC	750

File	No	BU -	1	5	5

Permit No. 269

LOG

Furnished by	Date	
Compiled by	Date	

Sample No.	FORMATION	Color	HARD OR SOFT	Top (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
Electric Log	Fill Sand Coal		Soft	0 30 117	30 117 121		
Tops	Sand &			121	144		*
	Shale Coal			144 150	150 154		
	Sand & Shale Shale			154 607	607 635		
	Sand & Shale Shale			635 700	700 716		
	Sand & Shale Shale			716 771	771 785		
	Sand & Shale Shale Coal			785 910 1060 1065	910 1060 1065 1075		
	Shale Sand Shale Coal Shale			1075 1140 1242 1245 1310	1140 1242 1245 1310		
*	Coal Sand & Shale Shale Sand Shale	*		1319 1492 1580 1611	1492 1580		
Ravencliff 2400	Sand & Shale Ravencliff			1870 2404			
Avis Lime 2549 Upper Maxton 282	Sand & Shale			2550 2628			
Maxton 3172	Shale Maxton			2930 3110	1		
	Sand & Shale Shale Sand Shale			3153 3190 3200 3349	3200		
Lower Maxton 340 Little Lime 3520	Shale Maxton			3394 3490 3560	3560)	
Big Lime 3719	Sand & Shale Lime			3612 3643 4293	4293	3	
Weir 4522 Berea 4933	Injun Sand Sand & Shale			4324			

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THIS FORM MUST BE SIGNED BY AUTHORIZED PERSON:

Lace Leavilly

ON Form 7							
(To be filled in by Division of Mines)	Com DEPARTMEN	MONWEALTH OF		TDV		filled in l	
BUCHANAN		ISION OF		- Vania (1977) (1977)	Well No.	t.c	6
County						_ /	-
CARDEN District	Ві	G STONE GAP, V			Permit No	//	13/
KEEN MOUNTAIN	OIL AND GAS		PLETION RE	PORT	Office No Location Plat .		
84- 155 File			trical log, if made, ines within 30 days	must	Location Tiat 1		
	abandonment or 45-113, Code of	completion of wel Virginia, 1950.)	l, as required by S				
Company Texas Internat Corporation La NRI Farm Big Vein (Yukon	ional Petro	leum	Address Suit	e 1020	One Val	ley Sq	uare
Farm Big Vein (Yukon	Pocahontas (Coal Co.,e	Charlestor	6.08	Virginia	a. 2530	11
County Buchanan Well No. (Company) Islan	d Creek #6		District Gard	ien	18951		
well No. (Company)	d order " o		Elevation (grou	nd surface	(10)3		
IIIICS	th						a:
5,550 feet Wes	t	of _Lon	gitude 81°	55			
Surface of tract is owned in fee sin Address Box 909, Augu	mple by Big Ve	ein (Yukon a 30903	Pocahonta	s Coal	Company	, etal	.)
Mineral rights are owned by B	ig Vein (Yuk	con Pocaho	ntas_Coal	Compar	ny, etal)		
	STO LADOTOIS						
Address Dox Joy, Augu	Creek Coal (Company /	Guy Richar	dson			
Location made by Island	Creek Coal C	Company /	Guy Richar	dson Appala	achian Dr	illing	Com
Location made by Island Drilling commenced June Drilling completed July	Creek Coal C 20, 1977 3, 1977	Company / Dri Ad	lling contractor dress <u>Jesse</u>	Appala	achian Dr Virginia	illing	; Com
Location made by Island Drilling commenced June Drilling completed July Well completed as oil well on	Creek Coal C 20, 1977 3, 1977 August 2,	Company / Dri Ad 1977 N/A	lling contractor dress <u>Jesse</u>	Appala West	Virginia N/A		
Drilling commenced Drilling commenced Drilling completed Unly Well completed as oil well on	Creek Coal C 20, 1977 3, 1977 August 2,	Company / Dri Ad 1977 N/A	lling contractor dress <u>Jesse</u>	Appala West	Virginia N/A		., 19
Location made by Island Drilling commenced June Drilling completed July Well completed as well on Well abandoned at N/A Well plugged on N/A Total depth 5107	Creek Coal C 20, 1977 3, 1977 August 2,	Dri Ad 1977 N/A Aff feet. Ste	dress Jesse,	Appala West : Reason	N/A N/A 5110'		., 19
Location made by Island Drilling commenced June Drilling completed July Well completed as well on Well abandoned at N/A Well plugged on N/A Total depth 5107 Commenced producing on Shu	Creek Coal C 20, 1977 3, 1977 August 2, feet on	Dri Ad 1977 N/A feet. Ste	dress Jesse, dress fidavit filed ed line measuren	Appala West : Reason	Nirginia N/A N/A 5110'		, 19 fe
Cocation made by Island Drilling commenced June Drilling completed July Well completed as well on Well abandoned at Well plugged on N/A Total depth 5107 Commenced producing on Shu Oil Well Initial production, oil: 1st 24 hour	Creek Coal Coal Coal Coal Coal Coal Coal Coal	Company / Dri Ad 1977 N/A Aff feet. Ste g on pipe1	dress Jesse, fidavit filed el line measuren ine_connec _ bbls.; 2nd 24	Appala West -: Reason ment etion.	N/A N/A N/A N/A		., 19 fe
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		740						
	it (1) 4933	feet to49	980 feet.	Gas shows a	at (1) _		feet to	feet.
	(2)	feet to	feet.		(2) _		feet to	feet.
	(3)	feet to	feet.		(3) =		feet to	feet.
Main and	4933	feet to39	980 feet.		(4) =		feet to	teet.
Wain produ	uction	feet to	ieet.		(5) —		teet to	teet.
Fresh water Salt water	at (1) None Reat (1)	feet; (2)inches to	GPM; (2)	(3) feet,	, (feet	GPM; (3) _ ; (4)	feet, feet.	GPM.
Coal: from	feet	inches to	feet	inch	es; from	feet	inch	es to 154
		from 1060						om: 1242
Well acidiz	ed from	feet to	feet with_		(quantity) of	acid.	1245'
	from	feet to	feet with_		(quantity) of	acid! I	1319'
D 1	Broke down	Berea with	550 PST	Fraced w	quantity) of	acid.	led water
50.000	# 20/40 sat	nd. Average	injectio	n rate -	21 ba	rrels pe	r minute	Average
inject	ion pressure	feet to Berea with 6 nd. Average e - 1050 PS	. Instan	t shut-in	n pres	sure 950	PSI: fi	ve minutes
shut i	n pressure	- 800 PSI.						
						A sales and a sale		
		ASING AND TUBING	1				CKERS	*
Size	USED IN DRILLING	LEFT IN WELL	Perfora	TED	KIND	Size	S	ET AT
(inch)	(feet)	(feet)	(feet) to (feet)				
16"	34 •	34'	(25 sho)	+s)				
11-3/4		264 '	(23 3110					3
8-5/8		1557'						
4-1/2		5074						***************************************
						L	INERS	
					Size	Used in Drilling	LEFT IN WELL	PERFORATED
					(inch)	(ft.)	(ft.)	(ft. to ft.)
						(/		
Casing	Cemented: 11-3	/4" inch. from	Surface fee	t to 264 '	Da		22, 1977	
	8-5,	/4" inch. from inch. from inch. from inch. from inch.	Surface fee	t to 155/	Da		25, 1977 3, 1977	
Remarks: (June 2	Shut down, depth 9, 1977 - f	s, dates; fishing jo ished for co	bs, depths, date ones, reco	s; caving; oth vered.	ner notes)		100	
						***************************************		***************************************
Samples or	cuttings will be a	vailable for examin	nation by a men	nber of the Vi	rginia Ge	ological Surv	ey	(No)
Will be fur	nished the Virginia	a Geological Surve	y upon request		(Yes) (No)	, if sacks for	same are fur	nished by the
Survey			3	(Yes) (No)	(2.0)			
	1.10	not made		(110)				
Copy furnis	shed herewith	or will b	e submitted on	or by Logs	ging C	ompany		, 19
					t C1	4:-1 f	aniod of the	by days of
The operat	or requests that in	formation given he l by this report	erein and log or	(Yes)	t confiden	itiai for a p	eriod of nine	ly days after
completion	or mon covered	-,		(NO)				

	0			
*** **		TO	JL C	
Well	No.	16	#6	
a a CII	4.00	-	4	-

File No	BU -	155

Permit No	269
Permit No	20)

LOG

Furnished by	Date
Compiled by	Date

Sample No.	FORMATION	Color	HARD OR SOFT	Top (feet)	BOTTOM (feet)	THICKNESS (feet)	REMARKS OIL, GAS, WATER DEPTHS SHUT DOWN FISHING, ETC.
	Fill		Soft	0	30		
Electric Log	Sand			30	117		
Tops	Coal		2.3	117	121		
10ps	Sand &			121	144		
1	Shale			144	150		
	Coal			150	154		
	Sand &			130	134	7 4 5 1	
	Shale			154	607		
	Shale			607	635		
	Sand &						
	Shale			635	700		
	Shale			700	716		
	Sand &			7- /			
	Shale			716	771		
	Shale Sand &			771	785		
	Shale			785	910		
	Shale	41		910	1060		
	Coal			1060	1065	4	
	Shale			1065	1075		
	Sand			1075	1140		
	Shale			1140	1242		
	Coal			1242	1245		
	Shale			1245	1310		
1	Coal Sand &			1310	1319	7 -	
	Shale			1319	1492		
	Shale			1492	1580		
	Sand			1580	1611		
	Shale			1611	1870		
	Sand &						
Ravencliff 2400	Shale			1870	2404		
	Ravencliff			2404	2550		
	Sand & Shale			2550	2628		
Avis Lime 2549 Upper Maxton 2826	Sand			2628	2930		
Upper Maxton 2826	Sand &			2020	2,50		
	Shale			2930	3110		
Maxton 3172	Maxton			3110	3153		
	Sand &						
	Shale			3153	3190		
	Shale			3190	3200		
	Sand			3200	3349		
	Shale Sand &			3349	3394		
Lower Maxton 3408				3394	3490		
Little Lime 3520				3490	3560		
	Maxton			3560	3612		
	Sand &						
	Shale			3612	3643		
Big Lime 3719	Lime			3643	4293		
	Injun Sand			4293	4324		
leir 4522	Sand &		- managina	4224	F107	TD	
Berea 4933	Shale			4324	5107	T.D.	
	7						

