

Oil and Gas Division

DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

	non	lell Recor	el in fil
TO THE DEPARTMENT OF MINES,		April 6, 1981	
Charleston, W. Va.	DATE		
Surface Owner WV Farming Commission	Company_ B	BERG Petroleum, Ir	nc.
c/o George Stickler, New Martinsville	, WV 26155 Address P.	0. Box 782, Cambr	idge, Ohio 43725
Mineral Owner WV Dept. of Mental Healt	h Farm Stat	e Farm	
c/o William Richards, St. Marys, WV 2	(170	ters) Ohio River	
Coal Owner -No Coal in Pleasants County		- "	Elevation 1101
Address	District Un		County Pleasan
Coal Operator		Raven Rock	
Address	quadrangle		
All provisions being in accordance with Chapter of the W. Va. Code, the location is hereby applied and provisions have not commenced by 12-23-81	INSPECTOR	Thillip Trac	ey .
operations have not commenced by 12-23-81	Dire if ADDRESS	Middlebourne	. WV 26149
Tred 18		150 /570	
Deputy Director - Oil & Gas Division	PHONE (304) 7	58-45/3	
GENTLEMEN:			
The undersigned well operator is entitled to drill	upon the shows named for		
title thereto, (or as the case may be) under grant			by Donald M.
Robinson made to BERG Petroleum			
1980 in Pleasants County, Book			day of
XXX NEW WELLDRILL DEE	PERREDRII	LLFRACTU	JRE OR STIMULATE
OIL AND GAS WELL ORIGINALLY	DRILLED BEFORE JUNE	E 5, 1969.	
The enclosed plat was prepared by a registered chave been notified as of the above date.	engineer or licensed land	surveyor and all coal o	wners and/or operators
The above named coal owners and/or operator ar to make by Section 3 of the Code, must be received	e hereby notified that any by, or filed with the De	objection they wish to partment of Mines with	o make, or are required in ten (10) days. *
Copies of this notice and the enclosed plat were	mailed by registered mail,	or delivered to the above	e named coal operators
or coal owners at their above shown respective add same day with the mailing or delivery of this copy t	o the Department of Mine	day West V	before, or on the
and any with the manning of delivery of this copy is	o die Deparament of Mine	es at Charleson, west	rgina.
PLEASE SUBMIT COPIES OF ALL	Very truly your	BERG Petroleu	m, Inc.
GEOPHYSICAL LOGS DIRECTLY TO:	(Sign Name)	rodlen Claur	, Presiden
ODOTHIDIONI BOOD DENDOLLE, 10.		Well Operator	
WEST VIRGINIA GEOLOGICAL AND		P. O. Box 782	
		I C C Don , C D	
ECONOMIC SURVEY	Address	Street	
P. O. BOX 879	of	Street	
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505			
P. O. BOX 879	of	Street Cambridge City or Town	
P. O. BOX 879 MORGANTOWN, WEST VIRGINIA 26505	of	Street Cambridge	

*SECTION 3.... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

43-073-	PERMIT	NUMBER
A VICTORIAL TOTAL CONTRACTOR OF THE PARTY OF		

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

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

PROPOSED WORK ORDER TO	XXX DRILL	DEEPEN FR	ACTURE-STIMULATE
DRILLING CONTRACTOR: (If		RESPONSIBLE AGENT:	
NAME Adams Well Service		NAME J. Ellen Ad	
ADDRESS P. O. Box 858, 0	Cambridge, OH 43725	ADDRESS P.O. Box 1	31, Glenville, WV 26351
TELEPHONE (614) 432-79	923	TELEPHONE (304) 4	62-5475
ESTIMATED DEPTH OF COMPI	LETED WELL: 5500'	ROTARY XXX	CABLE TOOLS
PROPOSED GEOLOGICAL FOR			
TYPE OF WELL: OIL_	GAS C	OMB. XXX STORAGE	DISPOSAL
	RECYCLIN	NG WATER FLOO	ODOTHER
	and the same of		
TENTATIVE CASING PROGRAM	M:		
CASING AND TUBING	USED FOR	LEFT IN	CEMENT FILL UP
SIZE	DRILLING	WFLI.	OR SACKS - CUBIC 1-1.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	350'	350'	To Surface
7			
5 ½			100 00 1
4 ½		5500'	400 Sacks
3			Perf. Top Perf. Bottom
Liners			Perf. Top
10 M 40 M 10 M 10 M 10 M 10 M 10 M 10 M		100 massag 60 - 18423	Perf. Bottom
OF PLAT. TO DRILL DEEPER OR REDRI SUBMIT FIVE (5) COPIES WELLS DRILLED PRIOR MUST ALSO BE SUBMITT TO FRACTURE - STIMULATE: OIL AND/OR GAS WELL O BOND PERMANENT PLATE OIL AND/OR GAS WELL O ING ORIGINAL PERMIT N	CLL: OF OG - 1, SHOWING ORIGINO 1929, A PERMANENT CONGINALLY DRILLED BEFORT AND ORIGINAL WELL RECORDINALLY DRILLED ON A CUMBER, AND PERFORMANCE LIES WITHIN THE PROBLEM OF LIES WITHIN	INAL PERMIT NUMBER AN OPY OF THE PLAT AND TO THE PLAT AND TO THE JUNE 5, 1929, FIVE (5) CORD. ND/OR AFTER JUNE 5, 1928, BOND.	DND AND PERMANENT COPY D PERFORMANCE BOND. ON THE ORIGINAL WELL RECORD COPIES OG. 1, PERFORMANCE 9, FIVE COPIES OG. 1, SHOW Inspector to be notified twenty
thereof. WAIVER: I the undersigned, A this lease have exam We the	gent for on our mine n	Coal Company, Owner naps this proposed well local have no objections to said w	issued within ten days of receip
		The state of the s	or Coal Company

Orficial Title

IV-35 (Rev 8-81)



State of Mest Nirginia

Department of Mines

Date 9	
Operato Well No	
Farm	State Farm
ADT No	17 073 - 1185

DECE

Static rock pressure

EGETVED Wil and Cas	Bivision	API No.	47-07	5 - 1185
SEP 2 1 100 WELL OPERATOR'	S REPORT			
OIL & GAR BUT DETILITING FRACTURING AND/OR STIME	LATING, O	R PHYSICAL	CHANGE	
PT. OF MINES				
WELL TYPE: Oil X / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Wast	e Disposal	/ o / Sha	llow_x/)
IOCATION: Elevation: 1101' Watershed Oh District: Union County Plea	ganta	Quadrangle	Raven	Rock
District: Union County 11ee	ABCII VB	Quadrangi		
(3)		disno		
COMPANY Berg Petroleum				elan
ADDRESS Box 782, Cambridge, OH 43725	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT J. Ellen Adams	Tubing	Drilling	in Well	
ADDRESSOx 131, Glenville, WV 26351	Size			eign
SUPERCE COMER State Board of control	20-16 Cond.			arcar -
c/o George Stickler ADDRESS New Martinsville, WV 26155	13-10"	C.		W.S.L.
MINERAL RIGHTS CANER State Farming Commissi	019 5/8			23.77
ADDRESS St. Marys, WV 26170	8 5/8	349'	3491	156 cu ft
OIL AND GAS INSPECTOR FOR THIS WORK Robert	7			elsa
Lowther ADDRESS Middlebourne, WV	5 1/2			8183
DEDMIN ISSUED 4-23-81	4 1/2	3969	3969	552 cu ft
DRILLING COMMENCED 5-13-81	3			
DRILLING COMPLETED 5-19-81	2			0.22
TE ADDITCABLE: PLUGGING OF DRY HOLE ON	108			id is a leaf to
CONTINUES PROCEESSION FROM DRILLING OR	Liners			
REWORKING. VERBAL PERMISSION OBTAINED				
ON	Shale	Der	oth 550	0 feet
Depth of completed well 4000 feet	Rotary	x / Cab	le Tools	
	Dail	/		
Water strata depth: Fresh Coal seam depths:	Is coa	l being mi	ned in th	ne area?
Coal seam depths:	_			
OPEN FLOW DATA	D	ou zone de	oth	feet
OPEN FLOW DATA Producing formation	P	ay zone ac	n flow	Bbl/d
C7	U			
MCI/Q		7		
s sime hot room in	itial and	final test	-5	110ars
Static rock pressurepsig(surf.	ace measur	ement) art	eri	ours since 11
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Mcf/d	011:	fillar open	110	
- flaw between it	ittlat alu	Thur wo		
Static rock pressurepsig(surfa	ace measur	ement) aft	er	nours snut in

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

TAKAMU TAKMATUMPA TAM

As of this date, this well has not been frac'd

WELL LOC

FORMATION COLOR HARD OR SOFT	TOP FEET	BOITOM FEET	REMARKS Including ir 'ication of all fre and salt water, cral, oil and g
Red rock, sand and shale Shale Maxon Shale Big Lime Reener Shale Big Injun Shale Squaw Shale Berea Shale Fifty Foot hale hirty Foot hale ordon Stray hale ordon hale alltown hale	surface 1500 1646 1686 1710 1756 1792 1798 1942 1952 1976 2320 2324 2404 2471 2551 2607 2716 2726 2746 2836 3750 3819	1500 1646 1686 1710 1756 1792 1798 1942 1952 1976 2320 2324 2404 2471 2551 2607 2716 2726 2746 2836 3750 3819 3950	Autorion transported to the second se
	Topologia de	40.0	

(Attach separate sheets as necessary)

BERG PETROLEUM, INC.

Well Operator

By: Brodley Edgus, Presiden

Date: September 17, 1984

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 that, encountered in the drilling of a well"

	-1 8	Inv	- 2		V		4	STAGE	MER	mi	t	# 112	55
WELL NAME A	-		LOCAT	ION-POOL-FIELD		RIG NAME P	1 Z	25Ter	n +	£7			,
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FORMATION				SENTATIVE		HOLE SIZE //"	10	CASING OR LINER	A		В	С	D
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WORK ORDER CONTRACT

ORM 1908 R-2 BUNCAN, OKLAHOMA	Company 73533	AND PRE	-TREATM	IENT D	ATA		ACH TO	No. 99	3233
ISTRICT LIVE Ton	1						DATE	19	0/
O: HALLIBURTON SERVICES THE SAME AS AN INDEPENI AND DELIVER AND SELL PR	DENT CONTRACTOR	THE SECOND SECON	06 1	21	CUSTON	(ER)	EMEN TO	DELIVER A	ND OPERATE
VELL NO. 55 12781	EASE STATE	FAR	79	SEC		TWP		RAN	IGE
IELD St MANUS	COUNTY 28/		TE LU			Make the state of	061	2 h	15114
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REATMENT INSTRUCTIONS: TRE		100			ILUS 🗌 HYD	RAULIC HO	RSEPOWE	ORDERED	
Cana	nt 7/	2 10	SIN ME						

CUSTOMER OR HIS AGENT STATES THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

As consideration, the above-named Customer agrees:

- (a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists.
- (b) Halliburton shall not be responsible for and Customer shall secure Halliburton against any liability for damage to property of Customer and of the well of (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurdange and surface damage arising from subsurface damage.
- (c) Customer shall be responsible for and secure Halliburton against any liability for reservoir loss or damage, or property damage resulting from subsurface pre-losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of Halliburton.
- (d) Customer shall be responsible for and secure Halliburton against any and all liability of whatsoever nature for damages as a result of subsurface trespass action in the nature thereof, arising from a service operation performed by Halliburton hereunder.
- Customer shall be responsible for and secure Halliburton against any liability for injury to or death of persons, other than employees of Halliburton, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of Halliburton.
- (f) Halliburton makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or service.
- (g) Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment tools or instruments are not recovered. Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which are lost in the well and if yeur loss of or damage to any of Halliburton's equipment, tools or instruments which are lost in the well and if yeur loss or instruments which are lost in the well and if yeur loss or instruments which are lost in the well and if yeur loss or instruments which are lost in the well and if yeur loss is due to the sole negligence of Halliburton. If the case of equipment, tools or instruments or instruments which are lost in the well and its replacement cost unless such loss or instruments which are lost in the well and its replacement cost unless such loss or instruments which are lost in the well and its replacement cost unless such loss or instruments which are lost in the well and its replacement cost unless such loss or instruments which are lost in the well and its replacement cost unless such loss or instruments which are lost in the well are lost in the wel
- (h) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will us their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for an damages arising from the use of such information except where due to Halliburton's gross negligence or willful misconduct in the preparation or furnishing of
- (i) Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- Upon Customer's default in the payment of Customer's account 60 days after date of invoice, such account will thereafter be subject to interest until paid. In the event it becomes necessary to employ an attorney to enforce collection of such account, Customer agrees to pay all collection costs and attorney fees in the amount of 20 per cent of the amount of the unpaid account.
- (k) Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGEN CUSTOMER

certify that the Fair Labor Standards Act of 1938, as amended, has been complied with he production of goods and/or with respect to services furnished under this contract.

HALLIBURTON SERVICES DIVISION LOCATION WELL DATA WEIGHT SIZE FROM TO CASING TUBING OPEN HOLE SHOTS/FT. PERFORATIONS PERFORATIONS JOB DATA CALLED OUT TOOLS AND ACCESSORIES TYPE AND SIZE FLOAT COLLAR PERSONNEL AND SERVICE UNITS FLOAT SHOE GUIDE SHOE UNIT NO. & TYPE LOCATION CENTRALIZERS MATERIALS DISPL. FLUID DEPARTMENT BLOCKING AGENT TYPE REPRESENTATIVE COPIES **CEMENT DATA** YIELD MIXED LBS./GAL CU.FT./SK PRESSURES IN PSI SUMMARY VOLUMES CIRCULATING SHUT-IN: INSTANT

CEMENT LEFT IN PIPE

HYDRAULIC HORSEPOWER

AVERAGE RATES IN BPM

ORDERED

TREATING

PEET

REMARKS

DEPARTMENT OF MINES



INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT: WH MINES

Notes the second contract and	CASING AND	USED IN DRILLING	Left in Well	PACKE	RS
Company Berg Petroleum Inc, Cambrigge OH.	Size				
AUGITES	16			Kind of Pack	cr
Well No. 27-81	13	71 - 117 - 127 - 1		Size of	- 4.36 - 9 W. A.C.
District County Pleasants	A STATE OF THE STA				
Drilling commenced	6%			_ Depth set	***************************************
Drilling completedTotal depth	5 3/16			Perf top	
Date shotDepth of shot	2			_ Perf bottom	
Instial open flow/10ths Water inInch	Liners Used				
Open flow after tubing/10ths Merc. inInch	1			Post bottom	
VolumeCu Ft.	1				
Rock pressurehrshrs.				burton	
Oilbbls., 1st 21 las.	COAL WAS E	Co Cement	used	_FEET	INCHES
Fresh waterfeetfeet	FEET	INC	HES	_FEET	INCHES
Salt water feet feet	FEET	INC	HES	_FEF.T	INCHES
Drillers' Names					
Difficis Manies					
Remarks:					

5-14-81

Permit No. 73-1185

DATE

Phil Grace 572
DISTRICT WELL INSPECTOR

STAIR OF VIRE

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

PLUGE VIED AND DEPTH PLACED BEIDGES CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION LUCATION RECOVERED SIZE LOST CONSTRUCTION LUCATION RECOVERED SIZE LOST CONSTRUCTION LUCATION RECOVERED SIZE RECO				ADDRESS			
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CEMENT-THICKNESS WOOD-SIZE LEAD CONSTRUCTION LUCATION RECOVERED SIZE LOST				REIDGES	CASING	S AND TH	BING
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rillers' Names	CONTRACTOR OF THE PROPERTY OF						
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hereby certify I viewed the . . . well on this date

DATE

DISTRICT WELL INSPECTOR





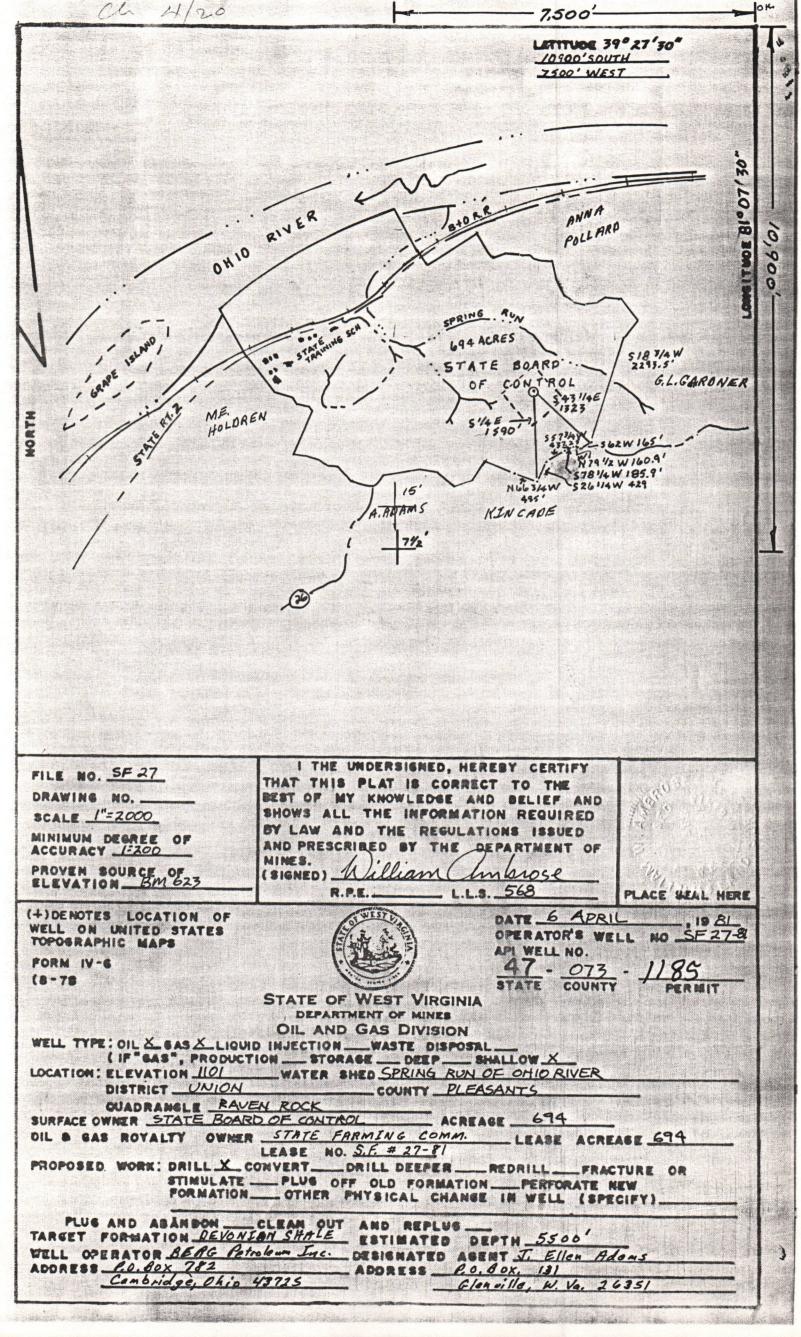
OIL & GAS DIVISION
DEPT. of MINES

State of West Birginia Department of Mines Gil and Gas Division

Charleston 25305

FINAL INSPECTION REPORT INSPECTORS COMPLIANCE REPORT October 22, 1984

COMPANY	Berg Petroleum	PERMIT NO _	07	3-1185
P. 0.	Box 782	FARM & WELL	NO	State Farm #27-81
Cambr	idge, Ohio 43725	DIST. & COU	YTV	Union/Pleasants
				COMPLIANCE
RULE	DESCRIPTION		YES	NO
23.06	Notification Prior to Starting Work			
25.04	Prepared before Drilling to Prevent Wa	ste		
25.03	High-Pressure Drilling			
16.01	Required Permits at Wellsite			
15.03	Adequate Fresh Water Casing			
15.02	Adequate Coal Casing			
15.01	Adequate Production Casing		L	_
15.04	Adequate Cement Strenght			
15.05	Cement Type			
23.02	Maintained Access Roads		1	
25.01	Necessary Equipment to Prevent Waste		1	
23.04	Reclaimed Drilling Pits		7	
23.05	No Surface or Underground Pollution		1	
23.07	Requirements for Production & Gathering	g Pipelines	1	
16.01	Well Records on Site		L	
16.02	Well Records Filed		1	
7.05	Identification Markings		Z	
I HAVE IN	NSPECTED THE ABOVE CAPTIONED WELL AND RE	COMMEND THAT	IT	BE RELEASED:
		SIGNED /	H	Lowthe
		DATE ho	<u>~</u>	1,1984
Your well	record was received and reclamation re	quirements a	ppro	ved. In accordance
with Char	ter 22, Article 4, Section 2, the above	well will r	emai	n under bond
coverage	for the life of the well.		-	1
		1-21		166
		Administrato	r-01	1 & Gas Division
		Janøøry	9,	1985
		DA	ATE	



Form 10-9 (01-60) Date 8 April 19 8/
Well No. STATE FARM 27-80
API No. 47 - 073 - 1/85
State County Permit

M. Cortinato simbolicate in the	State County Permit
OFFICE OF O	
BERG Petroleum Inc.	Designated Agent J. Ellen Adams
PD, Box 782, Cambridge, Phi	o Address P.O. Bov 131 Clenville W. Va.
a de	1616pnone 304-962-5975
Landman STATE FARMING COMM	Soil Cons. District
Revegetation to be carried out by BE	(Agent)
Empire Toba planshee has revelued by	ejer Ohio SCD. All corrections
and additions become a port of this plan	1. 4/9/81 Zennett & Moon
	(SCD Agent)
Access Roed	
	Location
Specing DETCH RELIEF CULVERTA)	Structure DIRT (1)
Page Ref. Managed 1:8	Page Ref. Manual DIE GELVIEI
Structure (B)	Structure Brush + Tree P: /e. (2) Material
Page Ref. Hanual	Page Ref. Manual APR 1 0 1981
Structure (C)	Structure Oil & GAS DIVIS ON
Page Ref. Manual	Page Ref. Manual DEPT. OF W. N. 25
All structures should be inspected regul.	The state of the s
The second of the second of the second second	arry and repaired it necessary.
Revegeta	tion
	CONTRACTOR OF THE CONTRACTOR O
Trestment Area I	Treatment Area II
or correct to ph 6.5	Lime Tons/Acre
4. And the state of the state o	
(10-20-20 or equivalent)	Fertilizer 500 lbs/acre (10-20-20 or equivalent)
Mulch Hay Or Straw 2 Tons/Acre	
Seed* KY 31 FESGUE 351bs/acre	Seed* KY31 FESCUE 35 lbs/acre
ALD Too 15 lbs/acre	REO TOP 5 lbs/acre lbs/acre
	and the second section of the
winoculate all legumes such as vetch, trefo bectarium. Inoculate with 3X recommended s	il and clovers with the proper
commence of the control of the contr	Pasonir Na s.a. tu. 9
2000년 1000년 전 1000년 1200년	

Attach or photocopy section of involved Topographic map. Quadrangle RAVEN ROCK.

Legend:

(Well Site



Diversion
Spring O
Wet Spot
Building
Drain Pipe
Waterway

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

MOUNT CARMEL RIDGE ROAD ROAD LIES ON RIOGE TOP. LOCATION ON FAIRLY LEVEL HILL TOP. LOCATION HAS BRUSH & EXIT Off RIDG ROAD WILL B. 614-432-5533

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