



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 18 1981

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE May 5, 1981

Surface Owner WV Farming Commission
c/o George Stickler, New Martinsville WV 26155
Address

Company BERG Petroleum, Inc.
Address P. O. Box 782 - Cambridge, Ohio 437

Mineral Owner WV Dept of Mental Health
c/o William Richards, St. Marys, WV 26170
Address

Farm State Farm Acres 694

Location (waters) Ohio River

Coal Owner No Coal in Pleasants County-

Well No. State Farm #30-81 Elevation 980'

Address

District Union County Pleasants

Coal Operator

Quadrangle Raven Rock

Address

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
for Drilling. This permit shall expire if
operations have not commenced by 1-21-82

INSPECTOR
TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, WV 26149

PHONE (304) 758-4573

John R. Buppatt
Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated October 27 1980 by Donald M. Robinson made to BERG Petroleum, Inc. and recorded on the 14 Novmeber 1980, in Pleasants County, Book 159 Page 216

XXX NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required 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 mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address day before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

P. O. BOX 782
 Street
CAMBRIDGE, OHIO 43725
 City or Town
Ohio, 43725
 State

Very truly yours, BERG PETROLEUM, INC.
(Sign Name) Bradley Glavin President
 Well Operator

*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

47-073 -1204

PERMIT NUMBER

"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 _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Adams Well Service, Inc. NAME J. Ellen Adams
 ADDRESS P.O. BOX 858, Cambridge, OH 43725 ADDRESS P.O. Box 131, Glenville, WV 26351
 TELEPHONE (614) 432-7923 TELEPHONE (304) 462-5774
 ESTIMATED DEPTH OF COMPLETED WELL: 5500' ROTARY XXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. XXX STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT CHUTE OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	350'	350'	To Surface
7			
5 1/2			
4 1/2		5500'	400 Sacks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET SALT WATER NA FEET
 APPROXIMATE COAL DEPTHS None
 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 REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED 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 twenty 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 receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under 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 providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

 For Coal Company
 Official Title

Date 6 APRIL '81 #506
Well No SF 30
API No 47 - 073 - 1204
State

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name BERG PETROLEUM Designated Agent J. Ellen Adams
Address P.O. Box 782, Cambridge, Ohio 43725 Address P.O. Box 131, Glenoille, W. Va.
Telephone 614-432-5533 Telephone 304-462-5774
Landowner STATE BOARD OF CONTROL Soil Cons. District UPPER OHIO
Revegetation to be carried out by BERG (Agent)
This plan has been received by Upper Ohio SCD. Ayl corrections
and additions become a part of this plan. 5/11/81 Reynolds P. Weaver
(Date) (SCD Agent)

Access Road
Structure DITCH RELIEF CROSS DRAIN(A)
Spacing _____
Page Ref. Manual 1:3
Structure RIP RAP (B)
Spacing _____
Page Ref. Manual N/A
Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Location
Structure INTERCEPTOR CHANNEL (1)
Material SOIL
Page Ref. Manual 1:9
Structure RIP RAP (2)
Material ROCK/STONE/BRUSH
Page Ref. Manual N/A
Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.
All commercial timber is to be cut and stacked. All brush and small timber
to be cut and removed from site before dirt work begins.

Revegetation

Treatment Area I
Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500 lbs/acre.
(10-20-20 or equivalent)
Mulch HAY 2 Tons/Acre
Seed* KY 31 FESCUE 35 lbs/acre
RED TOP 5 lbs/acre

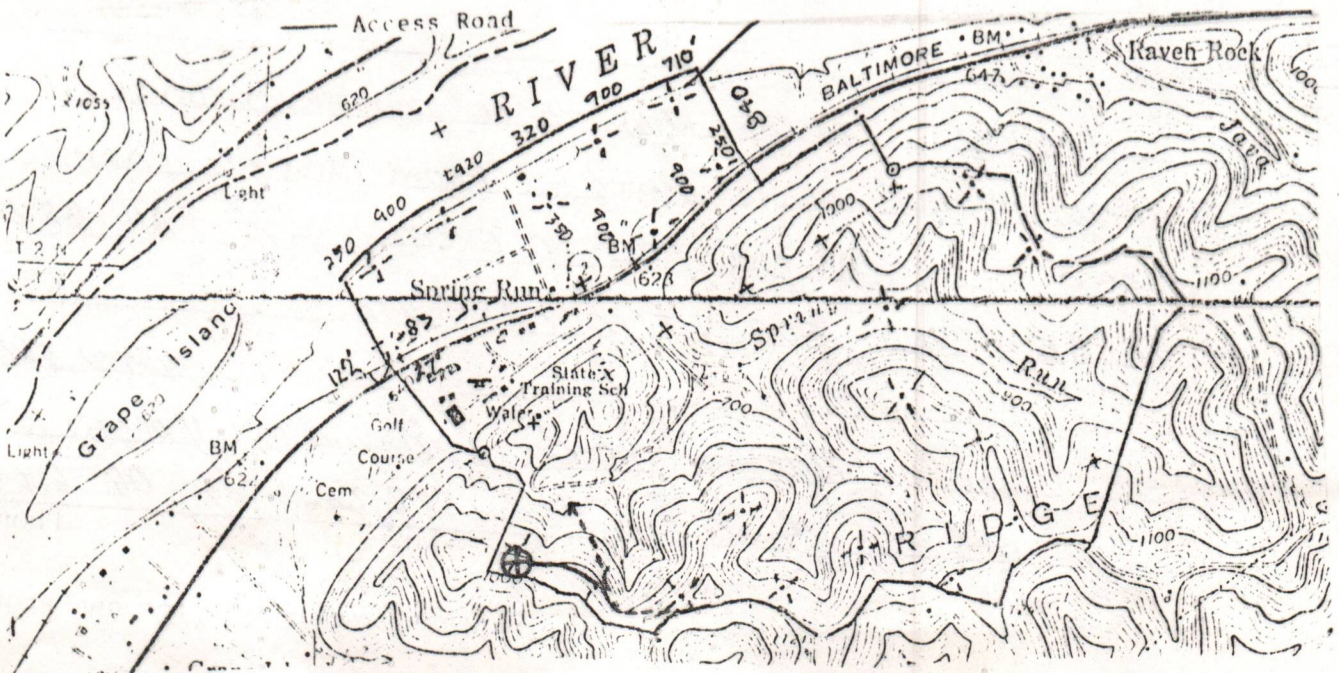
Treatment Area II
Lime _____ Tons/Acre
or correct to pH 6.5
Fertilizer 500 lbs/acre.
(10-20-20 or equivalent)
Mulch HAY 2 Tons/Acre
Seed* KY 31 FESCUE 35 lbs/acre
RED TOP 5 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper
bacterium. Inoculate with 3X recommended amount.

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Attach or photocopy section of involved Topographic map. RAVEN ROCK
OIL & GAS DIVISION
DEPT. OF MINES

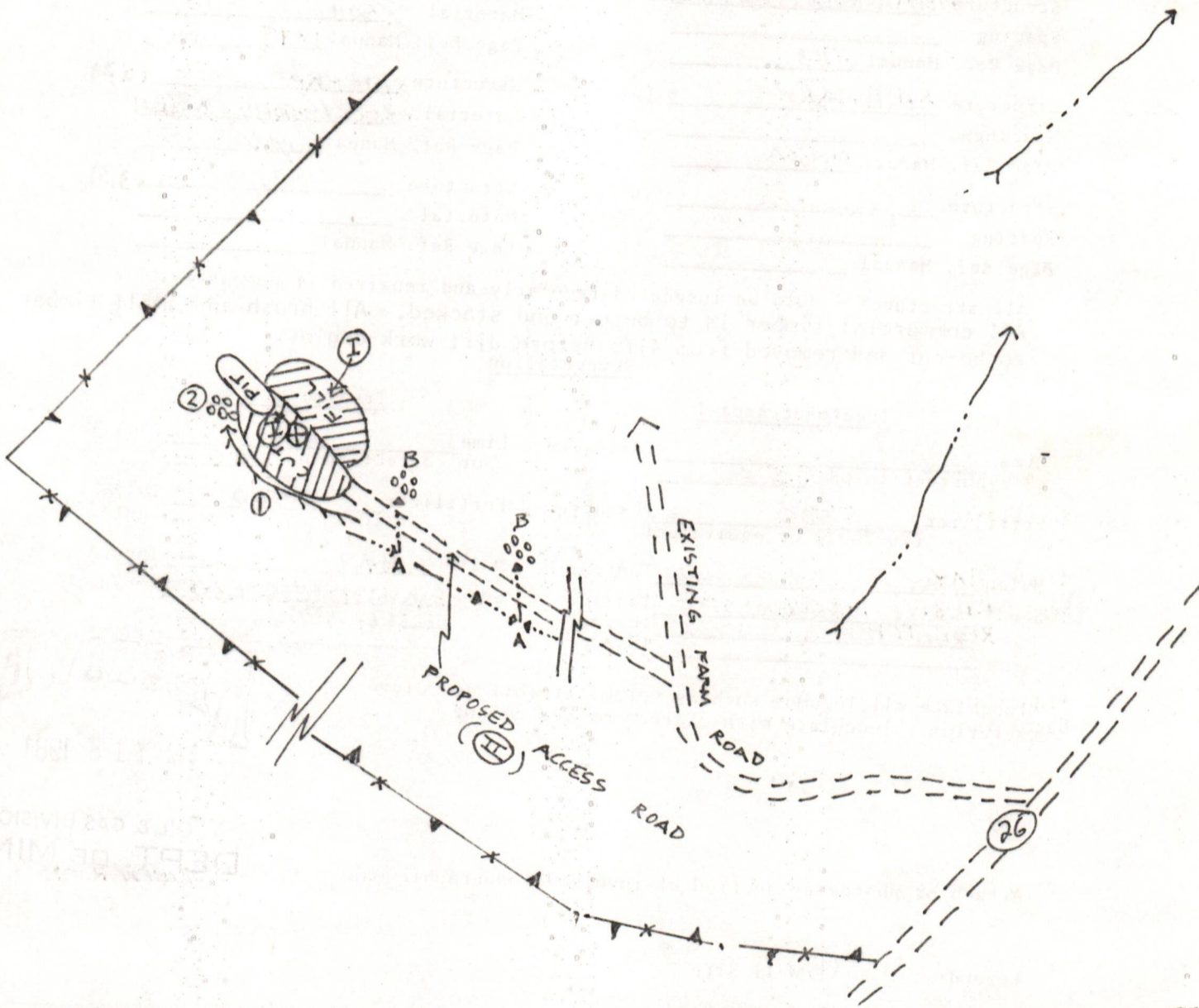
Legend: ⊕ Well Site



Well Site Plan

- Legend:
- Property Boundary
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch
 - Diversion
 - Spring
 - 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.



PROPOSED ACCESS ROAD TO BE CONSTRUCTED
 APPROXIMATELY ALONG CONTOUR FROM EXISTING FARM
 ROAD - PITCH NOWHERE TO EXCEED 6% ALL BRUSH
 TO BE PILED FOR STATE FARM USE.

(304) 462-5775

J. Ellen Adams P.O. Box 131, Glenville, WV 26351

Ralph J. Smith

P.O. Box 782, Cambridge, Oh. 614-432-552

Address Phone Number

to protect new seeding for one growing sea

IN THE CIRCUIT COURT OF PLEASANTS COUNTY, WEST VIRGINIA

STATE OF WEST VIRGINIA,
ex rel. THOMAS E. HUZZEY,
Administrator., Office of
Oil and Gas, Department of
Mines,

Plaintiff,

v.

CIVIL ACTION NO. 81-C-32

BERG PETROLEUM, INCORPORATED,
a corporation,

Defendant.

CONSENT DECREE

The State of West Virginia having filed its motion for a preliminary injunction herein on May 27, 1981, defendant having had an opportunity to review said motion and the plaintiff having obtained additional evidence it is agreed that the defendant, Berg Petroleum, Inc., made a diligent effort to abate the violations alleged in the plaintiff's complaint and is currently in compliance with all lawful orders of the Office of Oil and Gas, Department of Mines at the wells designated as permit No. 47-072-10064, 47-073-1063 and 47-073-1114. The defendant herein consents to the entry of the following decree without contest.

Wherefore, it is ordered, adjudged, and decreed as follows:

That the court has jurisdiction of the subject matter and of all persons and parties hereto and that the complaint


states that cause of action against the defendant pursuant to West Virginia Code Section 22-4-14.

1. The defendant will comply with all lawful orders issued by the Office of Oil and Gas, of the West Virginia Department of Mines.

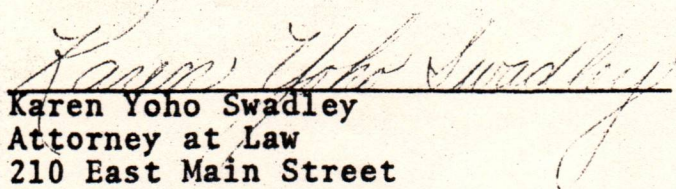
2. The defendant will comply with the provisions of Chapter 22, Article 4 of the Code of West Virginia, 1931 as amended.

3. The defendant will file a plan of operation and development for all future wells proposed on the State Farm Lease so that the administrator of the Office of Oil and Gas may determine whether such plan, including the gas oil production ratio from such proposed wells when such ratio becomes available, complies with the provisions of Code Section 22-4-14; with the understanding that additional information, when acquired may be submitted to the administrator of the Office of Oil and Gas when the defendant believes such information would help insure that the best interest of all parties would be served by the alteration of any such plan of operation previously approved by said Office of Oil and Gas.

The jurisdiction of this cause is retained by this court for the purpose of making such other and further orders as may become necessary.

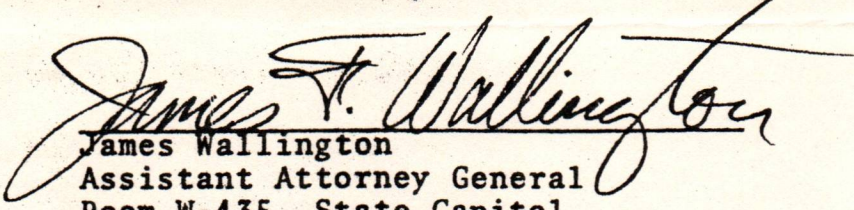

JUDGE OF THE CIRCUIT COURT
Pleasants County, West Virginia

Entry Consented to by its attorney.


Karen Yoho Swadley
Attorney at Law
210 East Main Street
Harrisville, West Virginia 26362

Counsel for defendant

Decree Reviewed by


James Wallington
Assistant Attorney General
Room W-435, State Capitol
Charleston, West Virginia 25305

Counsel for plaintiff



DUPLICATE
INVOICE

The Western Company of North America

P.O. BOX 94480 TULSA, OKLAHOMA 74194

TO BERG PETROLEUM INC
P.O. BOX 782
CAMBRIDGE, OHIO 43725

TERMS
NET CASH DUE ON OR
BEFORE 30 DAYS
AFTER DATE OF INVOICE

FEDERAL I.D. NO. C 75-0763484

INVOICE NO.
66371

PLEASE DISREGARD THIS INFORMATION
06951 22 45 47 2 20 9

DATE			OUR RECEIPT NO.	SERVICES FROM OUR STATION AT	OUR ENGINEER	SIGNED FOR YOU BY
MO	DAY	YR				
11	27	2	634297	MEADVILLE CM	NEHRING	SMITH
FOR SERVICING WELL NAME				COUNTY	STATE	YOUR ORDER NO.
STATE FARM 30-81				PLEASANT	W. VIRGINIA	

UNITS	CODE	DEPTH AND DESCRIPTION	UNIT PRICE	AMOUNT
25.0	K1004	MILEAGE CHARGE, PER UNIT, PER MILE	2.000	50.00
1.0	K2034	CEMENT PUMP TRUCK 3000-5000 FT	889.000	889.00
259.6	M1004	SERVICE CHARGE LAND JOBS PER CU FT	.890	231.04 *
287.5	M2304	DELIVERY CHARGE PER TON MILE	.660	189.75 *
6.0	P1104	CALCIUM CHLORIDE, PER SACK	23.000	138.00 *
137.5	P1714	CELLO-SEAL, PER LB	1.150	158.13 *
1260.0	P3094	WMW-1 FLUSH, PER GALLON	.400	504.00 *
250.0	P496A	PACESSETTER LITE MEADVILLE, PA	4.100	1,025.00 *
		SUB TOTAL		3,184.92

4 1/2" on State Farm #30

acct # 334

*01
322*

PAY THIS AMOUNT →

3,184.92

DISTRICT W. BOSTON

DATE 10-22-81

TO: HALLIBURTON SERVICES

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Bera Petroleum

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING (CUSTOMER)

WELL NO. 30 LEASE State Farm SEC. _____ TWP. _____ RANGE _____

FIELD Raven Rock COUNTY Pleasants STATE W.V. OWNED BY Bera Petroleum

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

PACKER: TYPE _____ SET AT _____

TOTAL DEPTH 1139' MUD WEIGHT _____

BORE HOLE 11" Hole

INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. AL P.S.I
CASING	<u>NEW</u>	<u>20</u>	<u>8 5/8</u>	<u>K.B.</u>	<u>1200</u>	<u>100</u>
LINER						
TUBING						
OPEN HOLE						SHOTS/
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

Cement 8 5/8" casing

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 or (if different from Customer), unless caused by the willful misconduct or gross negligence of Halliburton, this provision applying to but not limited to subsurface damage 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 pressure loss 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.
 - (e) 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 or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If less such damage is caused by the sole negligence of Halliburton, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repair. In addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments for marine operations, Customer shall deliver to Customer at the landing until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - (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 to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be responsible for 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 such information.
 - (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.
 - (j) 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 full. If 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 addition to 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 AGENT.

SIGNED [Signature] CUSTOMER

DATE 10-22-81

TIME 1830 A.M. (P.M.)

WELL DATA

FIELD Raven Rock SEC. _____ TWP. _____ RND. _____ COUNTY _____ STATE W.V.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA 11" Hole TOTAL DEPTH 1139'

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM ALLOWABLE
CASING	N	20	8 5/8	K.B.	1139	1000
LINER						
TUBING						
OPEN HOLE						
PERFORATIONS						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>8 5/8" Reg.</u>	<u>1 ea.</u>	<u>Hallen</u>
CENTRALIZERS	<u>1</u>	
BOTTOM PLUG		
TOP PLUG		
HEAD <u>8" Swage & Valve</u>	<u>1 ea.</u>	<u>Hallen</u>
PACKER	<u>1</u>	
OTHER <u>8 5/8" Casing Basket</u>	<u>1 ea.</u>	<u>Hallen</u>

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-22-81</u>	DATE <u>10-22-81</u>	DATE <u>10-22-81</u>	DATE <u>10-22-81</u>
TIME <u>1430</u>	TIME <u>1815</u>	TIME <u>2055</u>	TIME <u>2130</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Trinit</u>	<u>27643 P-1</u>	<u>Weston</u>
<u>J. Helmick</u>	<u>1503 75-C</u>	<u>Weston</u>
<u>Spross</u>	<u>4459 T.D.</u>	<u>Weston</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB Cement 8 5/8" casing

JOB DONE THRU: TUBING CASING ANNULUS TBC./ANN.

CUSTOMER REPRESENTATIVE E. N. Fisher

HALLIBURTON OPERATOR Joe Dindoff

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>1</u>	<u>310</u>	<u>Std.</u>	<u>A</u>	<u>Hallen</u>	<u>2</u>	<u>3/8 CaCl₂, 1/2" per sk. Floccle</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

CIRCULATING 200 DISPLACEMENT 600 SUMMARY

BREAKDOWN _____ MAXIMUM 600

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

REASON _____

VOLUMES

PRESLUSH: BBL-GAL. 50 1/2 10 GAL. 20 60 GAL. 675

LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 7

CEMENT SLURRY: BBL-GAL. 65.2

TOTAL VOLUME: BBL-GAL. _____

REMARKS
See Job Log



IV-35
(Rev. 8-78)

Date 9-10-84
Operator's _____
Well No. 30-81
Farm State Farm
API No. 47-073-1204

RECEIVED
SEP 24 1984

State of West Virginia
Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production / Underground Storage ___ / Deep ___ / Shallow)

LOCATION: Elevation: 980 Watershed Spring Run of Ohio River
District: Union County Pleasants Quadrangle Raven Rock

COMPANY Berg Petroleum
ADDRESS P.O. Box 782, Cambridge, OH 43725
DESIGNATED AGENT J. Ellen Adams
ADDRESS Box 131, Glenville, WV 26351
SURFACE OWNER State Board of Control
c/o George Stickler
ADDRESS New Martinsville, WV 26155
MINERAL RIGHTS OWNER State Farming Commission
c/o William Richards
ADDRESS St. Marys, WV 26170
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Middlebourne, WV
PERMIT ISSUED 5-21-81
DRILLING COMMENCED 10-21-81
DRILLING COMPLETED 10-27-81

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	41.8		
9 5/8			
8 5/8	1100	1100	403
7			
5 1/2			
4 1/2	4596	4596	259
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5500 feet
Depth of completed well 4632 feet Rotary / Cable Tools _____
Water strata depth: Fresh 50 feet; Salt none feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 3700 feet
Gas: Initial open flow 450 Mcf/d Oil: Initial open flow 100 Bbl/d
Final open flow 450 Mcf/d Final open flow 100 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 975 psig (surface measurement) after 12 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet

FILED
1207

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

First stage- 16 perfs from 3619-3796
Second stage- 4 perfs from 3580-3590

RECEIVED
DEPT. OF MINES
MONTANA

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Red rock, sand, shale			surface	1070	
first salt sand			1070	1125	
Shale			1125	1262	
Second salt sand			1262	1352	
Shale			1352	1538	
Third salt sand			1538	1576	
Shale			1576	1612	
Maxon			1612	1654	
Shale			1654	1662	
Big Injun			1662	1798	
Shale			1798	1810	
Squaw			1810	1841	
Shale			1841	2186	
Berea			2186	2190	
Shale			2190	2296	
Fifty Foot			2296	2326	
Shale			2326	2426	
Thirty Foot			2426	2476	
Shale			2476	2583	
Gordon Stray			2583	2592	
Shale			2592	2614	
Gordon			2614	2700	
Shale			2700	3950	

(Attach separate sheets as necessary)

X BERG PETROLEUM, INC.
Well Operator

By Bradley Claus, President
September 17, 1984

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

WELL OPERATOR'S REPORT
OF
INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Berg Petroleum
Address P.O. Box 782, Cambridge, OH

DESIGNATED AGENT J. Ellen Adams
Address Box 131, Glenville, WV

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5500 feet
Perforation Interval 3580-3796 feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 21.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE <u>11-3-81</u>	TIME <u>8AM</u>	END OF TEST-DATE <u>11-4-84</u>	TIME <u>8am</u>	DURATION OF TEST <u>24 hrs.</u>
TUBING PRESSURE	CASING PRESSURE <u>975</u>	SEPARATOR PRESSURE <u>150 lb</u>	SEPARATOR TEMPERATURE <u>65</u>	
OIL PRODUCTION DURING TEST <u>100</u> bbls.	GAS PRODUCTION DURING TEST <u>450</u> Mcf	WATER PRODUCTION DURING TEST & SALINITY - bbls. - ppm.		
OIL GRAVITY <u>56</u> °API	PRODUCING METHOD (Flowing, pumping, gas lift, etc.) <u>Flowing</u>			

GAS PRODUCTION		
MEASUREMENT METHOD FLANGE TAP <input type="checkbox"/> PIPE TAP <input type="checkbox"/> L-10 <input type="checkbox"/>		POSITIVE CHOKE CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN.
DIFFERENTIAL	STATIC	GAS GRAVITY (Air-1.0) MEASURED ESTIMATED
GAS GRAVITY (Air-1.0)	FLOWING TEMPERATURE	GAS TEMPERATURE _____ °F
24 HOUR COEFFICIENT	24 HOUR COEFFICIENT	
PRESSURE - _____ psia		

TEST RESULTS			
DAILY OIL <u>100</u> bbls.	DAILY WATER - bbls.	DAILY GAS <u>450</u> Mcf.	GAS-OIL RATIO <u>4500</u> SCF/STE

BERG Petroleum, Inc.
Well Operator

By: Bradley R Adams

Its: President

November 9, 1984



RECEIVED
JUN 18 1985

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

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 30, 1984

COMPANY Berg Petroleum
P. O. Box 782
Cambridge, Ohio 43725

PERMIT NO 073-1204 (5-21-81)
FARM & WELL NO State Farm #30-81
DIST. & COUNTY Union/Pleasants

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work		
25.04	Prepared before Drilling to Prevent Waste		
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	✓	
15.04	Adequate Cement Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site	✓	
16.02	Well Records Filed	✓	
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED R. A. Lowther
DATE June 13, 1985

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...
Administrator-Oil & Gas Division

June 25, 1985
DATE

SPECIAL REPORT

TO: Mr. Thomas E. Huzzey, Administrator, Office of Oil and Gas
RE: Explosion at Berg Petroleum, Inc's Well No. 47-073-1204 on
Colin Anderson Center Grounds
DATE: October 28, 1981

file here
Adams

Upon arrival at the scene at approximately 1:00 PM on October 27, 1981, a visual examination of the well site revealed that the location is near the crest of a hill with the "frac" pit located on the downhill side of the location. An Adams Well Service drilling rig was badly burned and had toppled over against the hillside from the well. The "doghouse" was completely destroyed and nearly all areas on the lower portion of the rig were twisted and badly charred. The pumping valves from a Halliburton Well Service truck were still attached to the rig. The Halliburton pumping truck sat near the well with the deisel engine compartment completely burned out. Apparently this truck had been pulled back away from the well by workers after the well had been extinguished to allow easier access to the wellhead. The skids had also apparently been moved back for the same reason. The "frac" pit was filled with water and drilling fluids, but did not seem to contain a significant amount of oil. The well by this time was under control and a swedge had been installed on the wellhead. It was still bubbling at a moderate rate however. Several articles of partially burned clothing and damaged hard hats lay about the location, as did blood-stained wrappings, apparently used in first aid efforts.

A conversation with Bud Adams of Berg Petroleum and Adams Well Service revealed that the accident occurred at around 4:30 AM on the 27th of October, 1981. His account was that the well had been completely drilled to a total depth of 4632 feet. His employees had been placing the 4½ inch casing in the well and at the time of the explosion the Halliburton engineer was circulating cement to set the 4½". Adams explained that the well had accumulated water and oil while inserting the casing and apparently when the cement was circulated water, oil and gas were brought to the surface and the gas ignited.

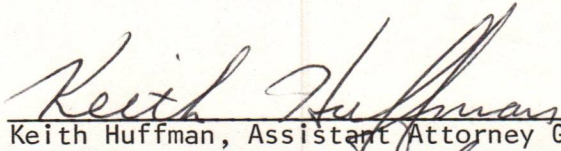
Although Mr. Adams was not present at the time of the explosion he gave an account that the Halliburton engineer, when circulating the cement, was told by others at the site to cut back the pressure, but instead ignored their instructions and opened up the pressure and that the explosion occurred at that time. Mr. Adams did not tell his source of such information.

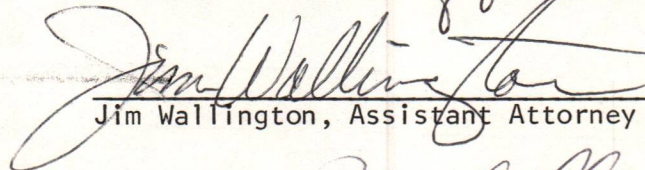
Mr. Adams said that two of his employees were injured: (1) Jim Morris who worked for Adams Well Service and (2) Bill Fisher who worked for Berg Petroleum. Subsequent newspaper reports identify these individuals as John Morris, 26 of Quaker City, Ohio and Eugene Fisher, 24 of Weston, W. Va.

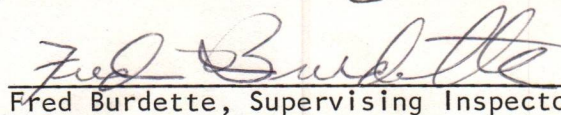
Conversations with a Halliburton Well Service employee revealed that three (3) employees of that company were injured: (1) Keith Marshall, (2) Bill Rayburn, and (3) an unknown man from Weston, W. Va. Subsequent newspaper accounts identify these individuals as Charles Marshall, 25 of Marietta, Ohio, William Rayburn, 32 of Marietta, Ohio and Thomas Miltonberger, 24 of Weston, W. Va. Apparently all but Mr. Miltonberger were seriously injured and were admitted to the West Penn Burn Center in Pittsburgh, Pa.

The investigating police officer at the incident was Trooper Lake of the St. Marys detachment of the W. Va. State Police. Apparently the Pleasants County Sheriffs Department also investigated the scene. Representatives of OSHA were notified by Jim Wallington upon our return to Charleston at approximately 4:20 PM on October 27, 1981.

Submitted by:


Keith Huffman, Assistant Attorney General


Jim Wallington, Assistant Attorney General


Fred Burdette, Supervising Inspector



STATE OF WEST VIRGINIA
OFFICE OF THE ATTORNEY GENERAL
CHARLESTON 25305

CHAUNCEY H. BROWNING, JR.
ATTORNEY GENERAL

November 20, 1981

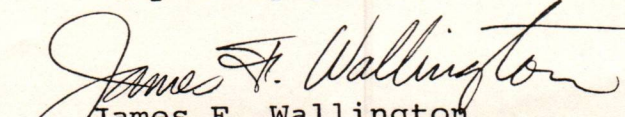
Mr. Stan Elliott
United States Department of Labor
Occupational Safety & Health
Administration
1726 Charleston National Plaza
Charleston, West Virginia 25301

Re: Well Explosion - October 27, 1981
BERG Petroleum, Inc.
A.P.I. Well No. 47-073-1204
Pleasants County, West Virginia

Dear Mr. Elliott:

I have enclosed a copy of a special report prepared for the West Virginia Office of Oil and Gas. As per our telephone conversation in late October, 1981, I am requesting a copy of any preliminary or final accident report prepared by the Occupational Safety & Health Administration regarding the explosion at the above-described well. Thank you.

Very truly yours,


James F. Wallington
Assistant Attorney General

JFW:pk

Enclosure

U.S. Department of Labor

Occupational Safety and Health Administration
U. S. DEPARTMENT OF LABOR-OSHA
550 EAGAN STREET ROOM 303
CHARLESTON, WEST VIRGINIA 25301
Reply to the Attention of:



November 30, 1981

Mr. James F. Wallington
Assistant Attorney General
State of West Virginia
Office of the Attorney General
Charleston, West Virginia 25305

RECEIVED

DEC 02 1981

ATTY. GEN. OFFICE

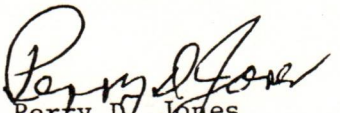
Re: Freedom of Information Request - Berg Petroleum, Inc.

Dear Mr. Wallington:

This will acknowledge receipt of your request for information concerning our investigation of the Berg Petroleum, Inc., Pleasants County, West Virginia.

At present we have not completed our investigation. If the investigation should result in the issuance of a citation to the employer, a copy will immediately be forwarded to your attention. Since we are prevented from releasing other information in an investigative file until all compliance activities are completed (i.e. litigation resolved, abatement achieved), we will provide the remainder of all releasable information at that time.

Very truly yours,


Perry D. Jones
Acting Area Director

RECEIVED
DEC 10 1981
U.S. DEPARTMENT OF LABOR
OSHA

RECEIVED

DEC 10 1981

W. VA. OIL & GAS
CONSERVATION COMMISSION

OFFICE OF THE ATTORNEY GENERAL

CHAUNCEY H. BROWNING, Jr.

MEMORANDUM

RECEIVED

DEC 10 1981

W. VA. OIL & GAS
CONSERVATION COMMISSION

TO: Thomas E. Huzzey, Administrator
Office of Oil and Gas

DATE: December 10, 1981

FROM: James F. Wallington *J.F.W.*
Assistant Attorney General

*Join -
File*

RE: B.E.R.G. Petroleum, Inc. Operations
Colin Anderson Center - State Farm Lease
St. Marys, Pleasants County, West Virginia

I have enclosed a Consent Order between the State of West Virginia and B.E.R.G. Petroleum which arose out of a civil action filed in the Circuit Court of Pleasants County, enjoining the flaring of gas from Well Nos. 47-072-1064, 47-073-1063 and 47-073-1114. As part of the consent order, B.E.R.G. Petroleum is required to file a plan of operation and development for all future wells on the State Farm Lease.

I have also enclosed recent correspondence between myself and officials of the Occupational Safety and Health Administration of the U.S. Department of Labor. This concerns the explosion at Well No. 47-073-1204.

Please contact me if you have any questions.

JFW:bss
Enc.

614/432-5533



Richmond & Company
INSURANCE ADJUSTERS & APPRAISERS
P. O. Box 1345 Union Trust Building
Parkersburg, W. Va. 26101

AC 304-422-4561 (24 hrs.)

December 14, 1981

West Virginia Department of Mines
Charleston, W.Va.

Attention : Mr. Fred Burdette
Supervisor

RECEIVED

DEC 17 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Dear Mr. Burdette:

We are the adjusters representing the Adams Well Service, Inc., who were drilling a well on the State Farm Thirty property at Colin-Anderson on 10-27-81 when an explosion occurred. We understand that you made a complete investigation and we are wondering whether this is a public record report or would it be possible we could secure a copy of your conclusion?

If there is any charge for this, please do not hesitate to include your statement and we will send our check by return mail. Thank you for your consideration.

Very truly yours,

H.E. Richmond

HER/ar

12-18-81

copy of report dated 10-28-81
sent in accordance with
JBB's instructions.

LP

Serving West Virginia and Ohio

FIRE

CASUALTY

AUTOMOBILE

INLAND MARINE



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

OOG-0888

July 16, 1984

Masters & Taylor, Attorneys at Law
416 Peoples Building
Charleston, WV 25301

Attn: Mr. Marvin W. Masters

Re: Request for pictures (API#47-073-1204)
Civil Action No. 83-C-163

Dear Mr. Masters:

Enclosed per your request of July 11, 1984, are copies of pictures you requested relative to the above captioned.

If we can be of further assistance please feel free to call on us.

Sincerely,

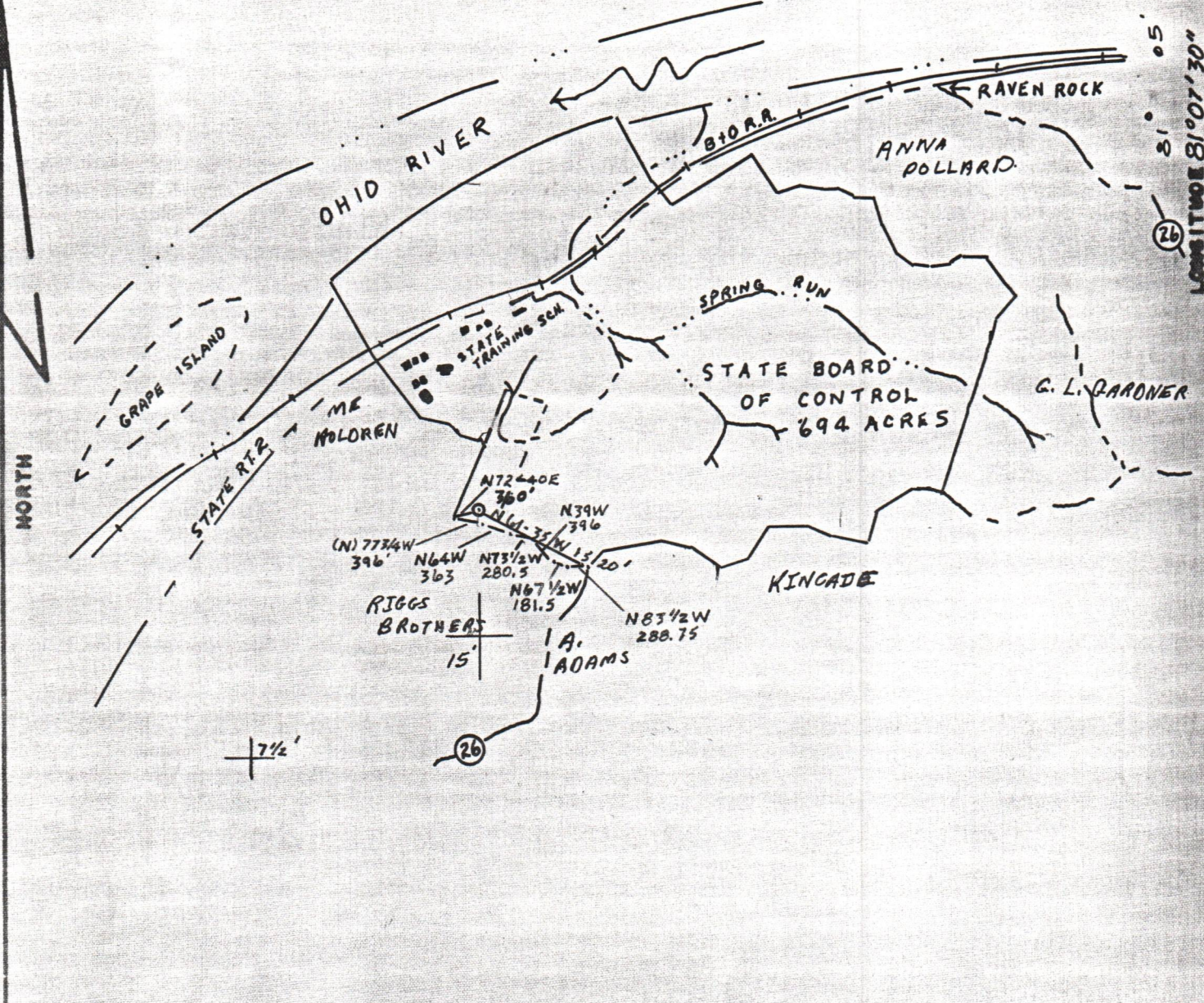
A handwritten signature in black ink, appearing to read "T. M. Streit".

Ted M. Streit, Administrator
Office of Oil and Gas

TMS/las
Encl. as stated

12,350'

LATITUDE 39° 27' 30" ^{39 30}
11900' SOUTH
12350' WEST



FILE NO. SF 30
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION BM-623

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) William Ambrose
 R.P.E. _____ L.L.S. 568

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE 6 APRIL, 1981
 OPERATOR'S WELL NO SF 30-81
 API WELL NO. 47-073-1204
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW)
 LOCATION: ELEVATION 980' WATER SHED SPRING RUN OF OHIO RIVER
 DISTRICT UNION COUNTY PLEAGANTS
 QUADRANGLE RAVEN ROCK
 SURFACE OWNER STATE BOARD OF CONTROL ACREAGE 694
 OIL & GAS ROYALTY OWNER STATE FARMING COMM. LEASE ACREAGE 694
 LEASE NO. S.F.#30-81
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUS AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5500'
 WELL OPERATOR BERG Petroleum Inc. DESIGNATED AGENT J. Ellen Adams
 ADDRESS P.O. BOX 782 ADDRESS P.O. BOX 131
Cambridge, Ohio 43725 Glenville, W. Va. 26351