



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

RECEIVED

OCT 16 1980

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE SEPTEMBER 24, 1980
Company BERG PETROLEUM INC.
Address P.O. BOX 782, CAMBRIDGE, OHIO 4372
Farm W. C. Hammett Acres 4 Lots
Location (waters) OHIO RIVER
Well No. W.C. Hammett # 1 Elevation 639'
District Washington County Pleasants
Quadrangle Raven Rock

Surface Owner WILLIAM C. HAMMETT ETAL
Address ST. MARYS, WEST VIRGINIA 26170
Mineral Owner WILLIAM C. HAMMETT ETAL.
Address ST. MARYS, WEST VIRGINIA 26170
Coal Owner No coal in Pleasants Co.
Address _____
Coal Operator NONE
Address _____

PERMIT MUST BE POSTED AT THE WELL SITE

provisions being in accordance with Chapter 22,
the W. Va. Code, the location is hereby approved
drilling. This permit shall expire if
operations have not commenced by 6-23-81.
[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Philip L. Tracy
ADDRESS Middlebourne W.VA. 26149
PHONE 758-4573

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 September 10 1980 by William C. Hammett etal. made to BERG Petroleum Inc, and recorded on the Not Yet day of Recorded 19, in _____ County, Book _____ Page _____
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

Very truly yours,
(Sign Name) E. D. Adams
Well Operator E.D. Adams, Treas
P. O. BOX 858
Street
Cambridge, OHIO 43725
City or Town
Ohio
State

*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.

47-073-1003 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 XXXXX DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Adams Well Service NAME J. Ellen Adams
 ADDRESS P.O. BOX 858, Cambridge, OH 43725 ADDRESS P.O. BOX 131 Glenville, W.VA.
 TELEPHONE 614-432-7923 TELEPHONE 304-462-5475 26351
 ESTIMATED DEPTH OF COMPLETED WELL: 4000 ROTARY XXXXX CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Upper Devonian
 TYPE OF WELL: OIL XXX GAS XXX COMB. XXX STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8 <u>350'</u>		XXX	70 Sacks
7			
5 1/2		XXX	100 Sacks
4 1/2 <u>4000'</u>			Perf. Top
3			Perf. Bottom
2			Perf. Top
Liners			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50' FEET _____ SALT WATER N/A 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

#248

Form IV-9
(01-80)

Date SEPTEMBER 24 80
Well No. W. Hammett # 1
API No. 47 - 073 - 1003
State OHIO

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name BERG Petroleum Inc. Designated Agent J. Ellen Adams
Address P.O. BOX 782, Cambridge, OH 43725 Address P.O. BOX 131 Glenville, W.VA. 26351
Telephone 614-439-5858 Telephone 304-462-5475
Landowner William C. Hammett et al. Soil Cons. District _____
Revegetation to be carried out by BERG Petroleum Inc. (Agent)
This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan. 10/17/80 Ronald R. Mason
(Date) (SCD agent)

Access Road
Structure Ditch relief culvert
Spacing N/A
Page Ref. Manual 1;7
Structure Make road (B)
Spacing Aprox. 12' wide (stone)
Page Ref. Manual B:7
Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Location
Structure Diversion ditch (1)
Material soil
Page Ref. Manual 1:11
Structure _____
Material _____
Page Ref. Manual _____
Structure _____ (3)
Material _____
Page Ref. Manual _____

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OIL & GAS DIVISION
DEPT. OF MINES

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.

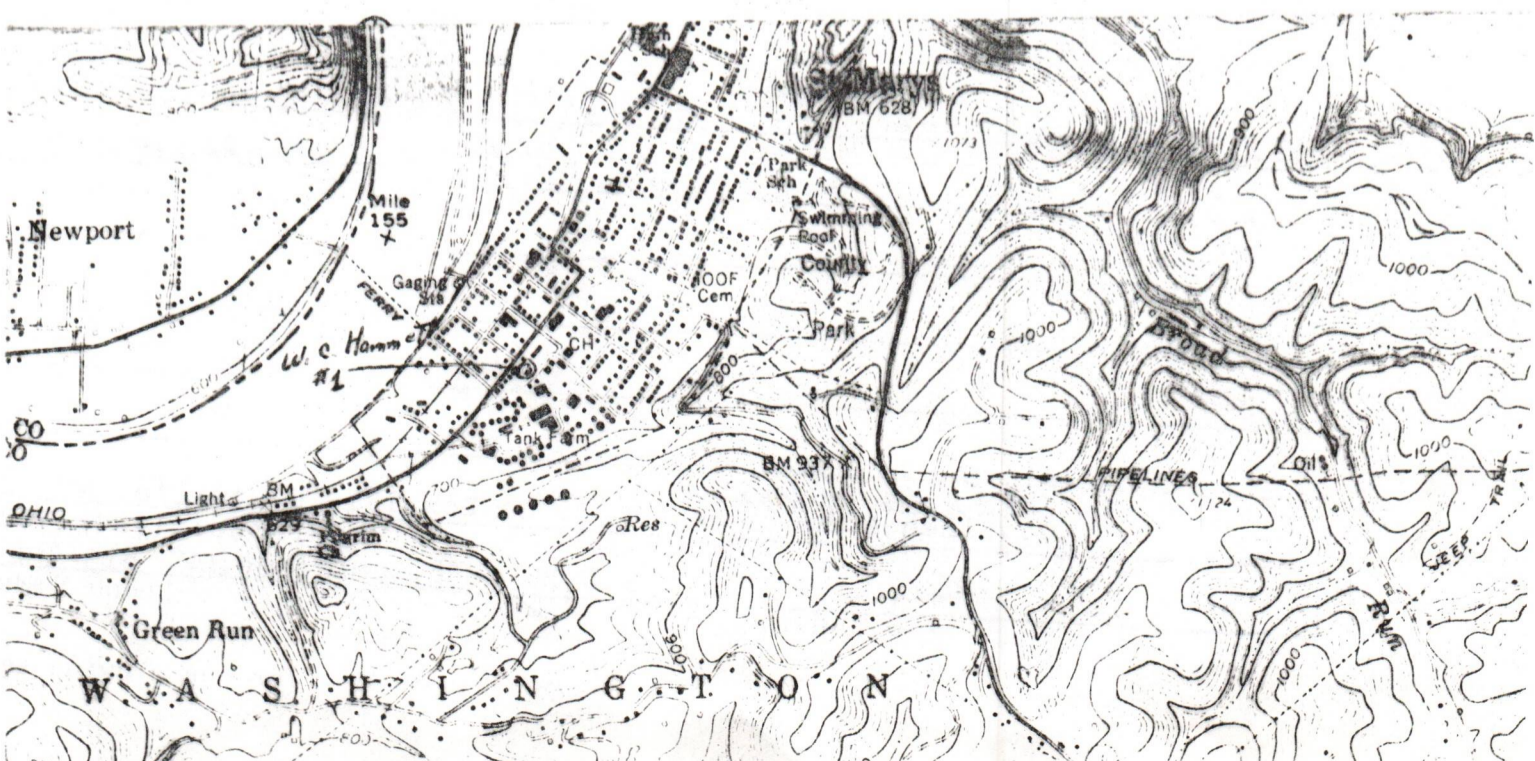
Revegetation

Treatment Area I
Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 500# lbs/acre
(10-20-20 or equivalent)
Mulch (hay or straw) 2 Tons/Acre
Seed* Ky#31 40# Fescue lbs/acre
lbs/acre
lbs/acre

Treatment Area II
Lime N/A Tons/Acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/Acre
Seed* _____ lbs/acre
lbs/acre
lbs/acre

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

Attach or photocopy section of involved Topographic map. Quadrangle Raven Rock

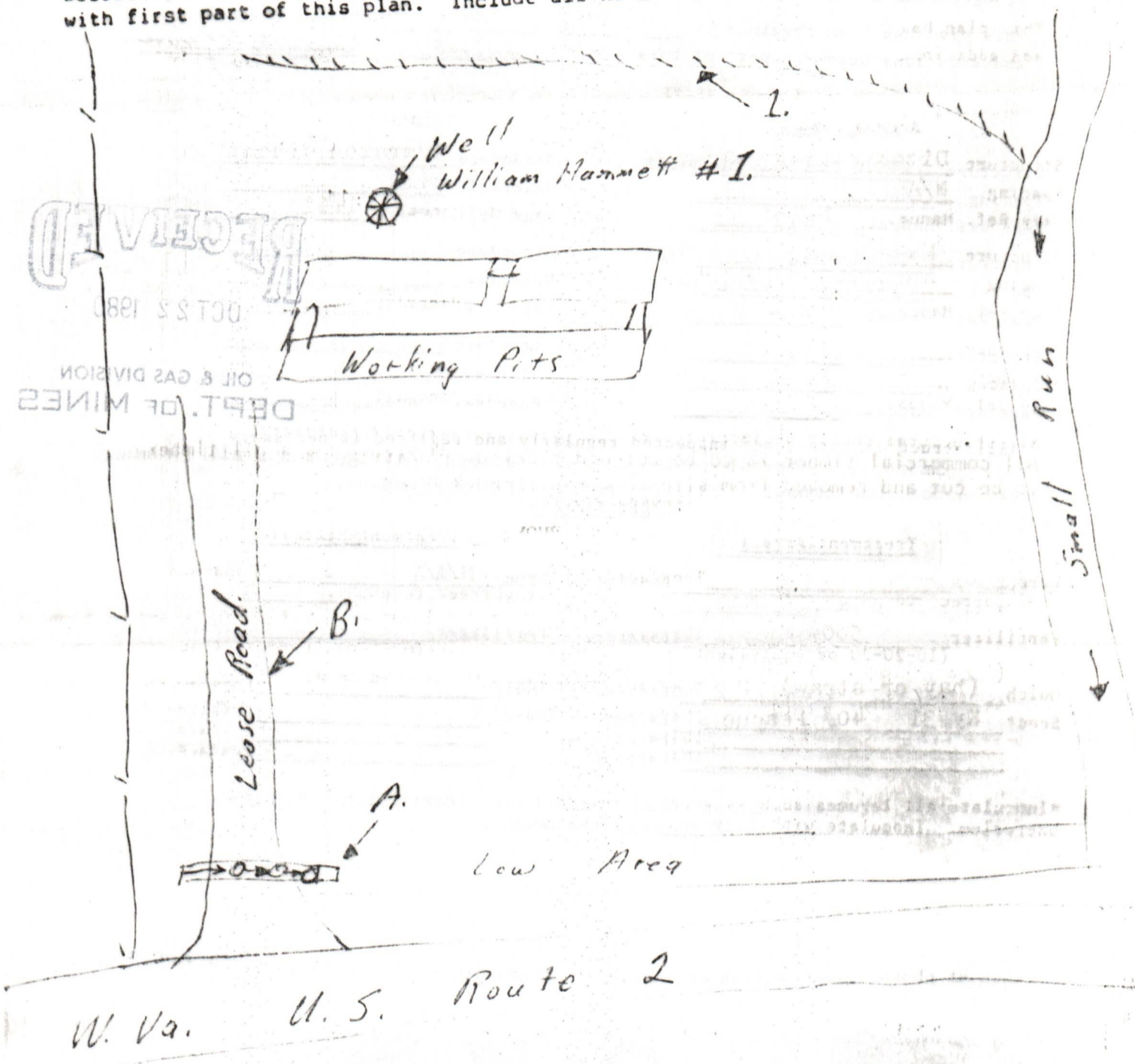


Well Site Plan

- Legend:
- Property Boundry
 - 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.



Location Is Almost Level.
 Will Build Lease Road With Limestone

J. Ellen Adams
 J. Ellen Adams, Agent P. O. Box 131, Glenville, WV 26355
 Phone: (304) 462-54

E. W. Adams
 E. D. Adams. P.O. BOX 858, Cambridge, OH 613-432-79
 Address Phone Number

to protect new seeding for one growing season

CEMENTING SERVICE REPORT

Inv. # 370



TREATMENT NUMBER **370** DATE **2-20-81**
 STAGE **Permi. t # 1003**

WELL NAME AND NO. **W. Hammett #1** LOCATION-POOL-FIELD **Buen Rock**
 FORMATION **SURFACE** REPRESENTATIVE **Don Kamper**
 COUNTY **Pleasant's** STATE **WV**

RIG NAME **Adams #2**
 WELL DATA
 HOLE SIZE **11"** CASING OR LINER A B C D
 DEPTH **350** SIZE-WEIGHT **5 3/8** **20 #**
 ROT CABLE TOP
 BHST BOTTOM
 BHLT GRADE & THREAD **8 Rd Reg**
 BHCT CAPACITY **26**

NAME _____ AND _____ ADDRESS _____
 ZIP CODE _____

MUD: TYPE _____ WT. _____ VISC. _____
 SHOE FLOAT TYPE DEPTH STAGE TOOL TYPE DEPTH
 TBG D.P. HEAD & PLUGS SQUEEZE JOB
 SIZE DOUBLE TOOL TYPE
 WEIGHT SINGLE DEPTH
 GRADE SWAGE TAIL PIPE: IN. FT.
 THREAD KNOCKOFF PERF INTERVAL FT.
 NEW USED TOP R W TO
 DEPTH BOT R W TO
 CAPACITY OTHER TO

PRESSURE LIMIT **500** PSI BUMP PLUG TO _____ PSI MIN
 ROTATE RPM RECIPROCATE FT CENTRALIZERS NO.

JOB SCHEDULED FOR: TIME **1600** DATE **2-20** ARRIVED ON LOCATION: TIME **1500** DATE **2-20** LEFT LOCATION: TIME _____ DATE **2-20-81**

TIME	PRESSURE		VOLUME PUMPED	INJECT. RATE	SERVICE LOG DETAIL
	TBG. OR D.P.	CASING			
1500					Arrive Loc Spot & Hook up units
1720					Pump to Break Circulation.
1730		50	30	-3	Circulation EST Begin Cmt @ 1516
1741		50	31	0-3	Cmt mixed & pumped, shut down fill displ tank.
1743				4	Begin Displ.
1752	100		24	0-4	Displ in shut down, close valve on Swage & Bleed Line. Rig down
1900					Job Complete

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			WT.	WT.	VOL.	WT.
1.	150	1.15	Class R	40%	31	15.6
2.						
3.						

BREAKDOWN FLUID WT. _____ SACKS MIXED **150** PUMPED **ALL**
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO
 PRESSURE MAX: **100** MIN: **0**
 BREAKDOWN PSI FINAL PSI CEMENT CIRCULATED TO SURF. YES NO
 WASHED THRU YES NO TO _____ FT. MEASURED DISPLACEMENT WIRELINE CEMENT LEFT IN PIPE: _____ FT.
 TYPE OF WELL OIL STORAGE BRINE/WATER WILDCAT CUSTOMER REPRESENTATIVE **Jeff Lamp**
 GAS INJECTION WILDCAT AS PLANNED UNAVOIDABLE DOES CUSTOMER CONSIDER SERVICE:
 SATISFACTORY UNSATISFACTORY UNKNOWN

HALLIBURTON SERVICES JOB SUMMARY

FORM 2012 R-2

HALLIBURTON
DIVISION
LOCATION

WILSON, VA
WESTON, VA

BILLED ON
TICKET NO. 793893

WELL DATA

FIELD ST MARYS SEC. _____ TWP. _____ RNG. _____ COUNTY PLASANTS STATE VA

FORMATION NAME	THICKNESS	FROM	TO	TYPE	DATE	CASING	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
INITIAL PROD: OIL				BPD. WATER		BPD. GAS		MCFD				
PRESENT PROD: OIL				BPD. WATER		BPD. GAS		MCFD				
COMPLETION DATE		MUD TYPE		MUD WT.								SHOTS/FT.
PACKER TYPE		SET AT										
BOTTOM HOLE TEMP.		PRESSURE										
MISC. DATA		TOTAL DEPTH	<u>1180</u>									

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE	<u>1</u>	<u>HAWCO</u>
GUIDE SHOE	<u>8</u>	<u>HAWCO</u>
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<u>1/4</u>	<u>HAWCO</u>
HEAD	<u>1/4</u>	<u>HAWCO</u>
PACKER		
OTHER	<u>1/2" BASKET</u>	<u>HAWCO</u>

JOB DATA

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>3/11/11</u>	<u>3/11/11</u>	<u>3/11/11</u>	<u>3/11/11</u>
TIME <u>0700</u>	TIME <u>1000</u>	TIME <u>1430</u>	TIME <u>1538</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. Hicks</u>	<u>CEMENT SK</u>	<u>WESTON</u>
<u>Dyer</u>	<u>61C</u>	<u>11</u>
<u>WARD</u>	<u>4775</u>	<u>11</u>
<u>LOWE</u>	<u>TD</u>	<u>11</u>
<u>HURSH</u>	<u>3265</u>	<u>11</u>
	<u>TD</u>	<u>11</u>
	<u>3562</u>	<u>11</u>
	<u>TD</u>	<u>11</u>
	<u>3606</u>	<u>11</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-^oAPI _____

DISPL. FLUID _____ DENSITY _____ LB/GAL-^oAPI _____

PROP. TYPE _____ SIZE _____ LB. _____

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. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT 1 1/2" CASING

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

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>815</u>	<u>50/50</u>	<u>A</u>	<u>HAWCO</u>	<u>B</u>	<u>10% SALT / Floc etc</u>	<u>129</u>	<u>14.3</u>

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

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

ORDERED _____ AVAILABLE _____ USED _____

TREATING _____ DISPL. _____ OVERALL _____

HYDRAULIC HORSEPOWER _____

AVERAGE RATES IN BPM _____

CEMENT LEFT IN PIPE _____

FEET _____ REASON _____

SUMMARY

PRESLUSH: BBL-GAL. _____ TYPE _____

LOAD & SKDN: BBL-GAL. 60

TREATMENT: BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. 187

TOTAL VOLUME: BBL-GAL. 313

REMARKS

See Job Log

CUSTOMER

CUSTOMER: BORG POLYMER
LEASE: WILSON, VA
WELL NO.: 1
JOB TYPE: CEMENT 1 1/2" CASING



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-2 A Division of Halliburton Company DUNCAN, OKLAHOMA 73533

ATTACH TO INVOICE & TICKET NO. 993493

DISTRICT WESTERN DATE 3/1/81

TO HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: BORG PATRICKSON (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE W.C. HOMMATT SEC. _____ TWP. _____ RANGE _____
FIELD ST. MARYS COUNTY PLEASANT STATE WV OWNED BY BORG PATRICKSON

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.		
FORMATION THICKNESS	FROM	TO	CASING	<u>N</u>	<u>10.5"</u>	<u>1 1/2</u>	<u>KB</u>	<u>4165</u>	<u>3000</u>
PACKER: TYPE	SET AT	LINER	TUBING						
TOTAL DEPTH <u>4140 FT</u>	MUD WEIGHT	OPEN HOLE	PERFORATIONS						SHOTS/FT.
BORE HOLE <u>7 7/8"</u>	INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF	PERFORATIONS	PERFORATIONS						
	PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF	PERFORATIONS	PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
CEMENT 11 1/2" 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 owned (or 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 lossing 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, or an 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, 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 occurs at any time after delivery 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 any 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 it.
 - (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 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 AGENT

SIGNED _____ CUSTOMER

DATE 3/1/81

TIME 12:30 A.M. P.M.

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

CUSTOMER



IV-35
(Rev 8-81)

Date 9-10-84
Operator's
Well No. #1
Farm W.C. Hammett
API No. 47-073-1003

State of West Virginia
Department of Mines
Oil and Gas Division

RECEIVED
SEP 24 1984

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: 639' Watershed Ohio River
District: Washington 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 William C. Hammett et al
ADDRESS St. Marys, WV 26170
MINERAL RIGHTS OWNER William C. Hammett
ADDRESS St. Marys, WV 26170
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
ADDRESS Middlebourne, WV
PERMIT ISSUED 10-23-80
DRILLING COMMENCED 2-20-81
DRILLING COMPLETED 2-28-81

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

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	63'		
9 5/8			
8 5/8	366'		195 cu ft
7			
5 1/2			
4 1/2	4167'		1059 cu ft
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Depth 4000 feet
Depth of completed well 4181 feet Rotary / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: Is coal being mined in the area?

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

(Continue on reverse side)

PLEAS 1003

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

As of this date, has not been frac'd

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	657	
Cow Run			657	703	
Shale			703	717	
Second Cow Run			717	782	
Shale			782	882	
First Salt Sand			882	934	
Shale			934	973	
Second Salt Sand			973	1058	
Shale			1058	1109	
Third Salt Sand			1109	1208	
Shale			1208	1249	
Maxon			1249	1295	
Shale			1295	1341	
Big Injun			1341	1401	
Shale			1401	1433	
Squaw			1433	1479	
Shale			1479	1700	
Wells Stray			1700	1706	
Shale			1706	1828	
Berea			1828	1845	
Shale			1845	1943	
Fifty Foot			1943	1960	
Shale			1960	2076	
Thirty Foot			2076	2121	
Shale			2121	2222	
Gordon Stray			2222	2235	
Shale			2235	2254	
Gordon			2254	2340	
Shale			2340	3082	
Tiona			3082	3103	
Shale			3103	3219	
Speechley			3219	3222	
Shale			3222	3329	
Balltown			3329	3337	
Shale			3337	3680	
Bradford			3680	3792	
Shale			3792	4017	
Riley			4017	4109	numerous shale breaks
Shale			4109	4164	

(Attach separate sheets as necessary)

X BERG PETROLEUM, INC.

Well Operator

By: Brodley Adams, President

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 coal, encountered in the drilling of a well."



RECEIVED

NOV 7 - 1984

OIL & GAS DIVISION
DEPT. OF MINES

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

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
October 22, 1984

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

PERMIT NO 073-1003
FARM & WELL NO W. C. Hammett #1
DIST. & COUNTY Washington/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. Lawther

DATE Nov 1, 1984

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

January 9, 1985

DATE



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division
NOTICE OF VIOLATION

RECEIVED

AUG 26 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit Number 73-1003

Farm Hammill Acres _____

Company Berg Petroleum Inc.

Location of Well (Waters) Ohio River

Address P.O. Box 782
Street

Company Well No. 1

Cambridge
City

District _____

Ohio 43722
State

County Plum

Responsible Agent J. Allen Adams

Address Shenandoah

The above described well is being posted this 18 day of Aug, 1981. A copy of this violation notice has this day been posted at the well site and either delivered personally or sent by Registered Mail, (return receipt requested) to the above address in accordance with the provisions of Chapter 22, Article 4, Section 1g of the Official Code of West Virginia for the following violation.

Chapter 22, Article 4, Section 12b

Administrative Regulation Rule No. 2 _____

Detailed description of violation:

Location needs reclamation work.

You are hereby granted until Sept 5, 1981 to totally abate the above described violation.

Failure to comply with this order will prompt action by the Oil and Gas Division under Chapter 22, Article 4, Section 17, Offenses, Penalties, or Chapter 22, Article 4, Section 18, Injunctive Relief of the West Virginia Code.

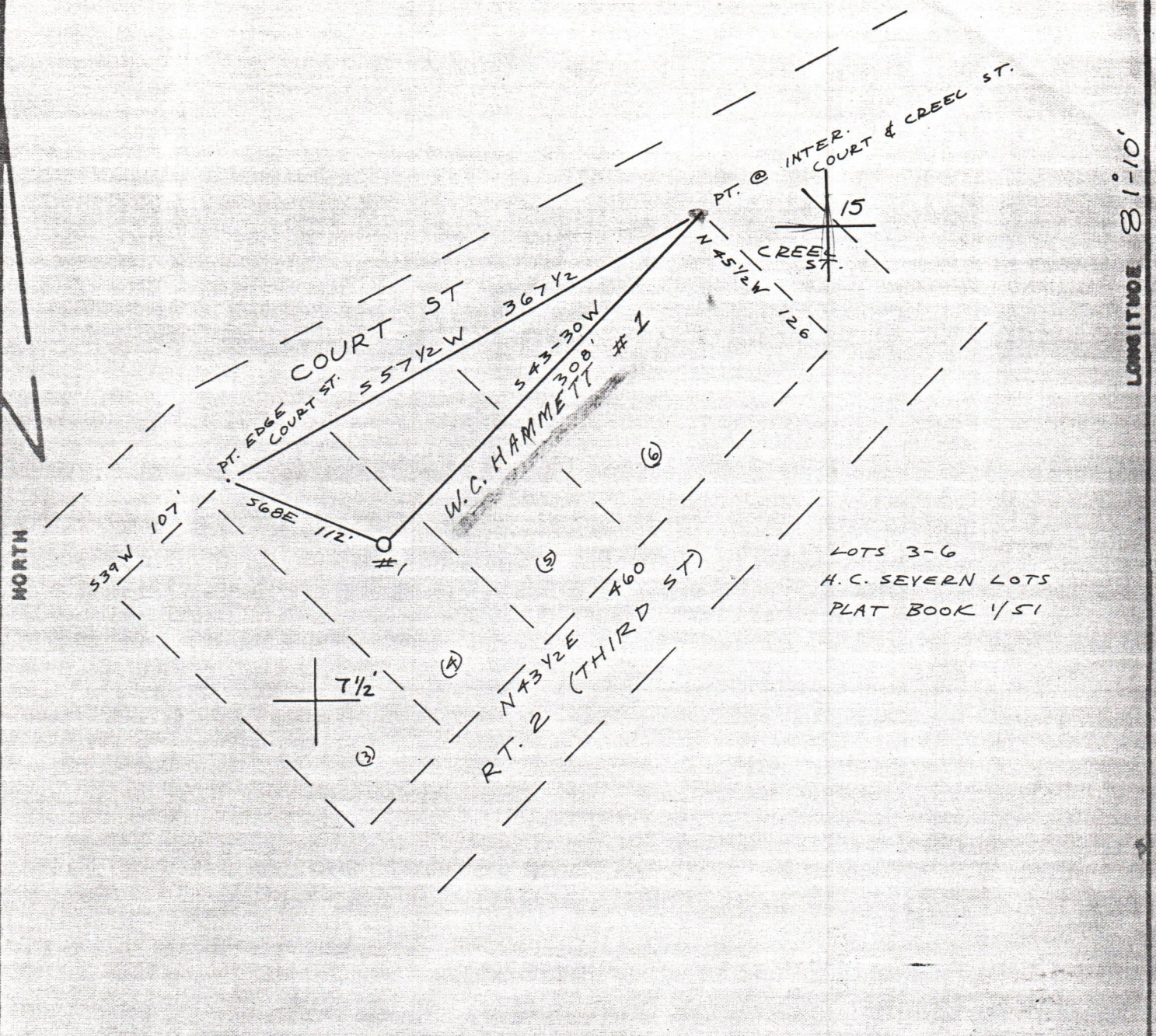
Signed Phillip L. Gray 512
Oil and Gas Inspector

Date Aug 18, 81

D 10-20-80

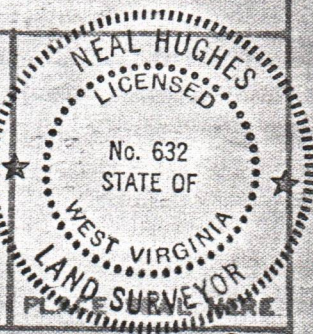
LATITUDE 39° 25'

LONGITUDE 81° 10'



FILE NO. BERG
 DRAWING NO. 1
 SCALE 1" = 100'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION BM 629

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) Neal Hughes
 R.P.E. _____ L.L.S. 632



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



DATE Sept 18, 19 80
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-073-1003
 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 639' WATER SHED OHIO RIVER
 DISTRICT WASHINGTON COUNTY PLEASANTS
 QUADRANGLE RAVEN ROCK 7 1/2' ST MARY'S 15'
 SURFACE OWNER R H CAMPBELL ACREAGE 4 LOTS
 OIL & GAS ROYALTY OWNER W.G. HAMMETT LEASE ACREAGE 4 LOTS
 LEASE NO. _____
 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 UPPER DEVONIA ESTIMATED DEPTH 4000'
 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