



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

APR 10 1981

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE April 6, 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, OH 43725

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

Farm State Farm Acres 694

Coal Owner - No Coal in Pleasants County-

Location (waters) Ohio River

Address

Well No. State Farm #25-81 Elevation 1138

Coal Operator

District Union County Pleasants

Address

Quadrangle Raven Rock

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 12-23-81.
[Signature]
Deputy Director - Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Phillip Tracy
ADDRESS Middlebourne, WV 26149
PHONE (304) 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 October 27 1980 by Donald M. Robinson made to BERG Petroleum, Inc. and recorded on the 14 day of November 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

Very truly yours, BERG Petroleum, Inc.
(Sign Name) *[Signature]*, President
Well Operator
Address of Well Operator
P. O. Box 782
Street
Cambridge
City or Town
Ohio, 43725
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.

BLANKET BOND

"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 _____

47-073- 1184 PERMIT NUMBER

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 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) 462-5475
 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 PUT UP 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 8 April 19 81
 Well No. STATE FARM # 25-81
 API No. 47 - 073 - 1184
 State County Permit

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, Ohio Address P.O. Box 131, Glenville, W. Va.
 Telephone 614-432-5533 Telephone 304-462-5475
 Landowner STATE FARMING COMM. Soil Cons. District

Revegetation to be carried out by BERG (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan. 4/9/81 (Date) (SCD Agent)

Access Road	Location
Structure <u>DITCH RELIEF Culvert(A)</u>	Structure <u>PERT</u> (1)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u>1:8</u>	Page Ref. Manual <u> </u>
Structure <u>REP RAP or Brush (B)</u>	Structure <u> </u> (2)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u>N/A.</u>	Page Ref. Manual <u> </u>
Structure <u> </u> (C)	Structure <u> </u> (3)
Spacing <u> </u>	Material <u> </u>
Page Ref. Manual <u> </u>	Page Ref. Manual <u> </u>

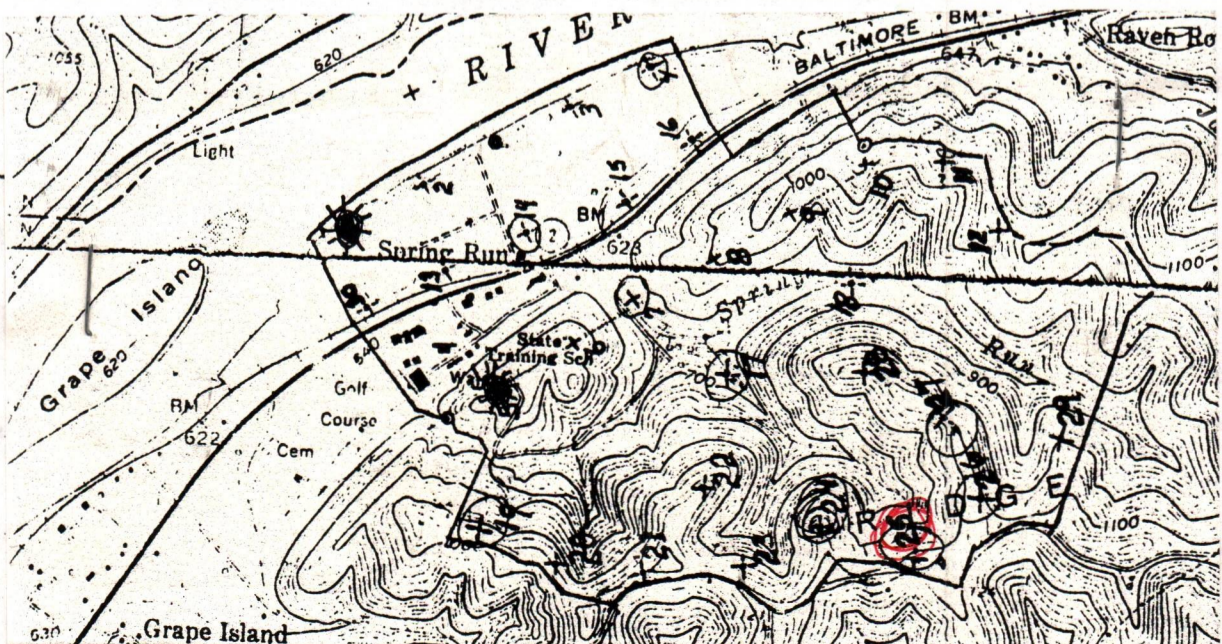
All structures should be inspected regularly and repaired if necessary.

Revegetation



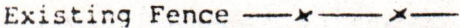



Treatment Area I	Treatment Area II
Lime <u> </u> Tons/acre or correct to pH <u>6.5</u>	Lime <u> </u> Tons/Acre or correct to pH <u>6.5</u>
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay or Straw</u> 2 Tons/Acre	Mulch <u>Hay or Straw</u> 2 Tons/Acre
Seed* <u>KY 31 FESCUE</u> 35 lbs/acre	Seed* <u>KY 31 FESCUE</u> 35 lbs/acre
<u>RED TOP</u> 5 lbs/acre	<u>RED TOP</u> 5 lbs/acre
<u> </u> lbs/acre	<u> </u> lbs/acre






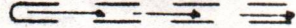
*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

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

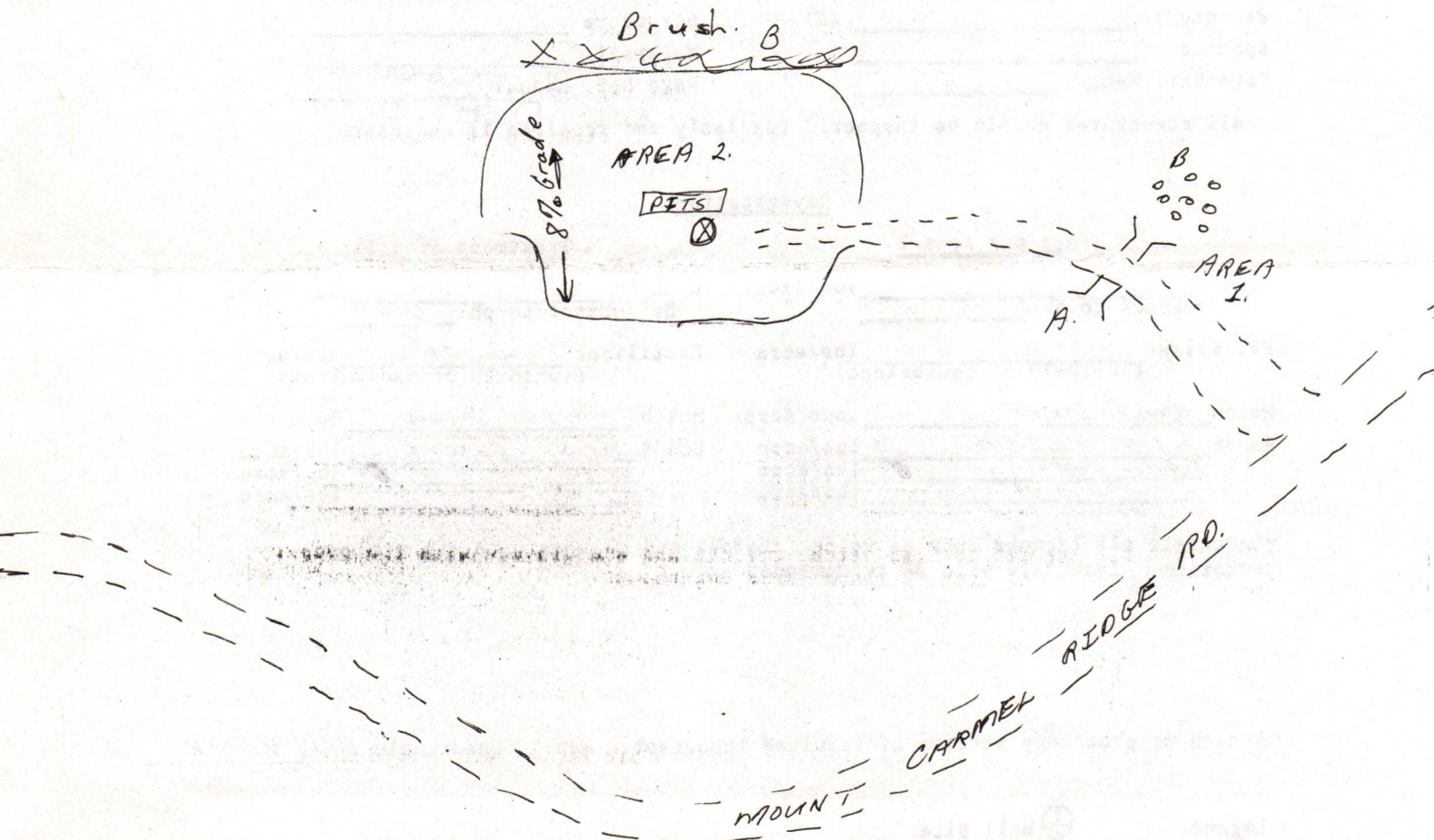


Well Site Plan

Legend: Property 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.



Comments: LOCATION JUST OFF TOP OF HILL WITH SMALL
GRADE. Possible Culvert Needed In Lease Road. Mostly
Brush On Location.

Signature: Ralph D. Smith P.O. Box 782, Cambridge Oh. 614-432-5533
 Agent Address Phone Number

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



WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-2

A Division of Halliburton Company DUNCAN, OKLAHOMA 73533

ATTACH TO INVOICE & TICKET NO. 105256

DISTRICT WESTERN W.V.

DATE 5-26-81

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

WELL NO. 25-21 LEASE STATE FARM SEC. TWP. RANGE

FIELD STMARYS COUNTY DECATUR STATE W.V. OWNED BY RORR PETRO

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

Table with columns: FORMATION NAME, TYPE, THICKNESS, FROM, TO, PACKER TYPE, SET AT, TOTAL DEPTH, MUD WEIGHT, BORE HOLE, INITIAL PROD, PRESENT PROD, PERFORATIONS, NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I., SHOTS/FT.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

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

COMPACT 4 1/2 CASTING 100 BAR GAL 39; COMPACT, DESCRIBED W/1170

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 owner...

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 5-26-81

TIME 2:00 AM P.M.



IV-35
(Rev 8-81)

Date 9-10-84
Operator's
Well No. 25-81
Farm State Farm
API No. 47 - 073 - 1184

RECEIVED

SEP 24 1984

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OIL & GAS DIVISION
DEPT. OF MINES

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

LOCATION: Elevation: 1138' Watershed Spring Run 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 26149

PERMIT ISSUED 4-23-81

DRILLING COMMENCED 5-19-81

DRILLING COMPLETED 5-23-81

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"	43'	43'	
9 5/8			
8 5/8	385'	385'	169 cu ft
7			
5 1/2			
4 1/2	4056'	4056'	552 cu ft
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5500 feet

Depth of completed well 4100 feet Rotary / Cable Tools _____

Water strata depth: Fresh 50 feet; Salt - feet

Coal seam depths: - Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3400 feet

Gas: Initial open flow 550 Mcf/d Oil: Initial open flow 2 Bbl/d

Final open flow 550 Mcf/d Final open flow 2 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 780 psig (surface measurement) after 12 hours shut in

(If applicable due to multiple completion--)

Second producing formation _____ Pay zone depth _____ feet

PLEASANTS 1184

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

First stage- 3600'-4024' with 30 perfs
Second stage- 3080'-3328' with 30 perfs

RECEIVED
DEPT. OF MINES

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 and shale			surface	1500	
Shale			1500	1700	
Maxon			1700	1746	
Shale			1746	1770	
Big Lime			1770	1816	
Keener			1816	1852	
Shale			1852	1866	
Big Injun			1866	1944	
Shale			1944	1970	
Squaw			1970	2033	
Shale			2033	2376	
Berea			2376	2379	
Shale			2379	2489	
Fifty Foot			2489	2516	
Shale			2516	2652	
Thirty Foot			2652	2710	
Shale			2710	2772	
Gordon Stray			2772	2781	
Shale			2781	2802	
Gordon			2802	2909	numerous shale breaks
Shale			2909	3810	
Balltown			3810	3846	
Shale			3846	4098	

(Attach separate sheets as necessary)

X BERG PETROLEUM, INC.
Well Operator

By: Bradley Adams, President

Date: September 17, 1984

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
STATUS INSPECTION REQUEST
INSPECTOR'S COMPLIANCE REPORT

RECEIVED
OCT 30 1984
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 073-1184 County. Pleasants
Company. BERG Petroleum Inc. Farm. State Farm
Inspector. Robert Lowther Well No. 25-81
Date. August 30, 1984 Issued. 4-23-81

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 Strength	_____	_____
23.02	Maintained Access Roads	✓	_____
25.01	Necessary Equipment to prevent Waste	✓	_____
23.03	Reclaimed Drilling Site	✓	_____
23.04	Reclaimed Drilling Pits	✓	_____
23.05	No Surface or Underground Pollution	✓	_____
7.03	Identification Markings	✓	_____

COMMENTS: _____
 _____ *This well was drilled* _____

I have inspected the above well and (Have/Have Not) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas-Department of Mines of the State of West Virginia.

SIGNED: R. A. Lowther
DATE: Oct 25, 1984



RECEIVED

OCT 30 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

PERMIT NO 073-1184

P. O. Box 782

FARM & WELL NO State Farm #25-81

Cambridge, Ohio 43725

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 Strength		
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. H. Lowther

DATE Oct 25, 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. H. v. B.

Administrator-Oil & Gas Division

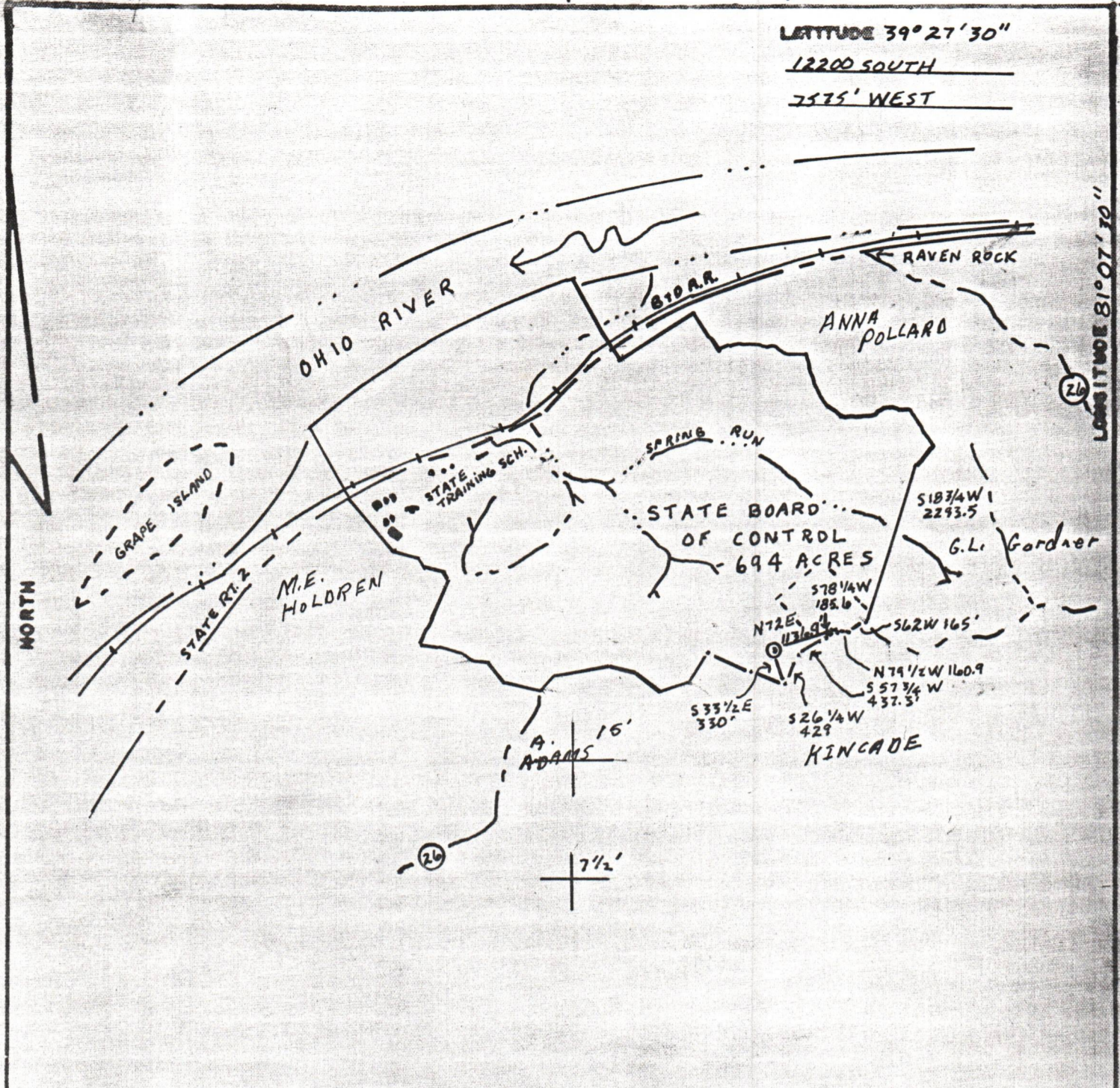
January 9, 1985

DATE

6/14/20

7575'

LATITUDE 39° 27' 30"
12200 SOUTH
7575' WEST



LONGITUDE 81° 07' 30"

FILE NO. SF 25
 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, 19 81
 OPERATOR'S WELL NO. SF 25-81
 API WELL NO. 47-073-1184
 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 1138 WATER SHED SPRING RUN OF OHIO RIVER
 DISTRICT UNION COUNTY PLEASANTS
 QUADRANGLE RAVEN ROCK
 SURFACE OWNER STATE BOARD OF CONTROL ACREAGE 694
 OIL & GAS ROYALTY OWNER STATE FARMING COMM LEASE ACREAGE 694
 LEASE NO. S.E.# 25-81
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG 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