



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 22 1981

Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 1, 1981

Surface Owner WV Farming Commission

Company BERG Petroleum, Inc.

c/o George Stickler, New Martinsville WV 26155

Address P. O. Box 782 Cambridge, Ohio 43725

Mineral Owner WV Dept. of Mental Health

Farm State Farm Acres 694

c/o William Richards, St. Marys, WV 26170

Location (waters) Ohio River

Coal Owner -None in Pleasants County

Well No. State Farm #29-81 Elevation 1020

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 6-27-82.

INSPECTOR TO BE NOTIFIED Phillip Tracy

ADDRESS Middlebourne, WV 26149

PHONE (304) 758-4573

John D. Rudette
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 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

Address of Well Operator

Very truly yours, BERG Petroleum, Inc.
(Sign Name) Bradley Olson President
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

47-073 -1343

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, Ohio 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: Elk & Benson

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 FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	350'	350'	To Surface
7			
5 1/2		5500'	550 sacks T
4 1/2			Perf. Top
3			Perf. Bottom
2			Perf. Top
Liners			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. OF 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 Oct. 1, 1981
Well No. SF 29 -81
API No. 47 - 073 - 1343
State County - Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name BERG PETROLEUM, INC. Designated Agent J. ELLEN ADAMS
Address Box 782, Cambridge, OH 43725 Address Box 131, Glenville, WVA 26351
Telephone (614) 432-5533 Telephone (304) 462-5775
Landowner STATE BOARD OF CONTROL Soil Cons. District UPPER OHIO

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. 10/15/81 Kenneth R. Pluon (SCD Agent)

Access Road	Location
Structure <u>DITCH RELIEF CULVERT (A)</u>	Structure <u>INTERCEPTOR CHANNEL (1)</u>
Spacing <u>-</u>	Material <u>SOIL</u>
Page Ref. Manual <u>1:8</u>	Page Ref. Manual <u>1:9</u>
Structure <u>DITCH RELIEF CROSS DRAIN</u>	Structure <u>RIP RAP (2)</u>
Spacing <u>-</u>	Material <u>ROCK/STN/BRUSH</u>
Page Ref. Manual <u>1:3</u>	Page Ref. Manual <u>N/A</u>
Structure <u>RIP RAP (C)</u>	Structure <u>(3)</u>
Spacing <u>-</u>	Material <u>-</u>
Page Ref. Manual <u>N/A</u>	Page Ref. Manual <u>-</u>

RECEIVED

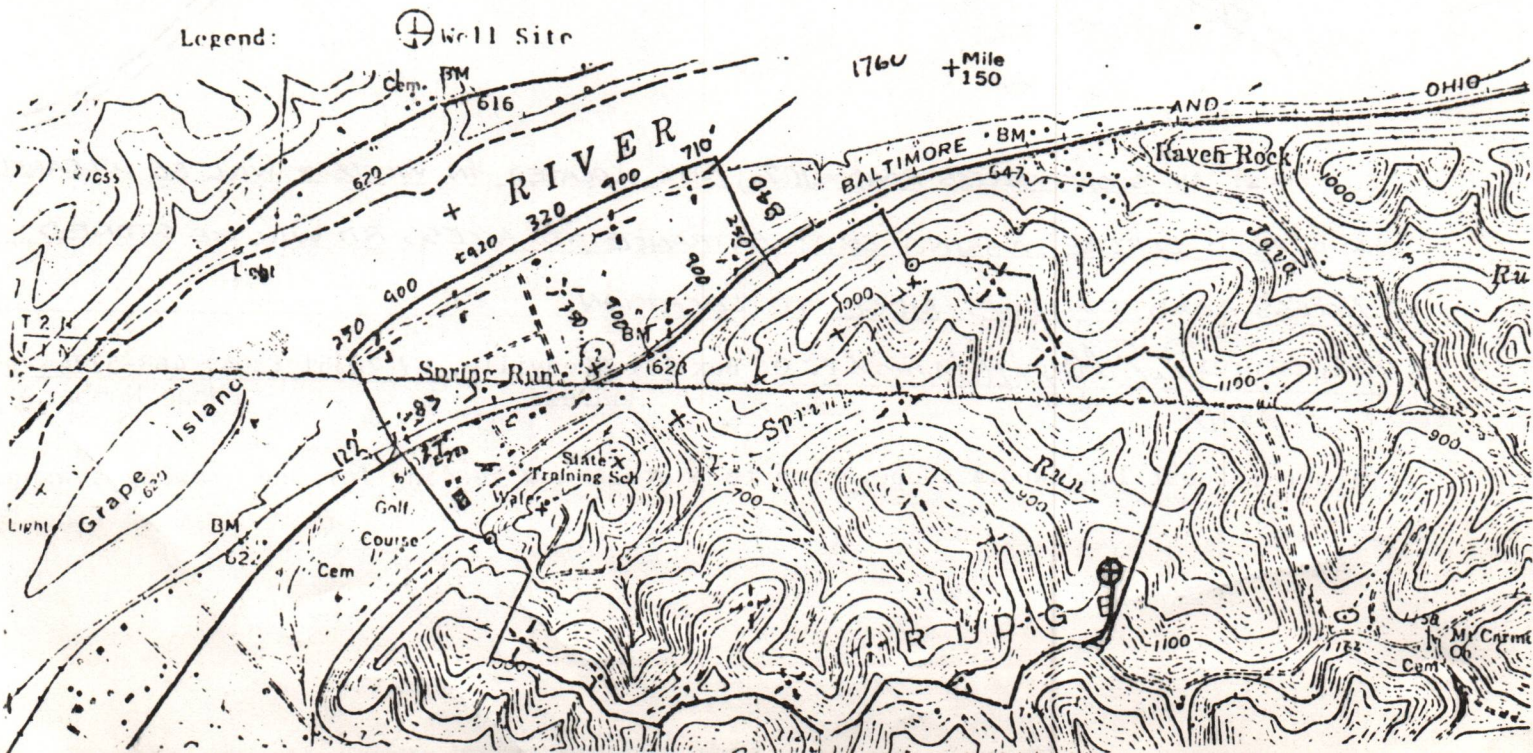
All structures should be inspected regularly and repaired if necessary. OCT 22 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

*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

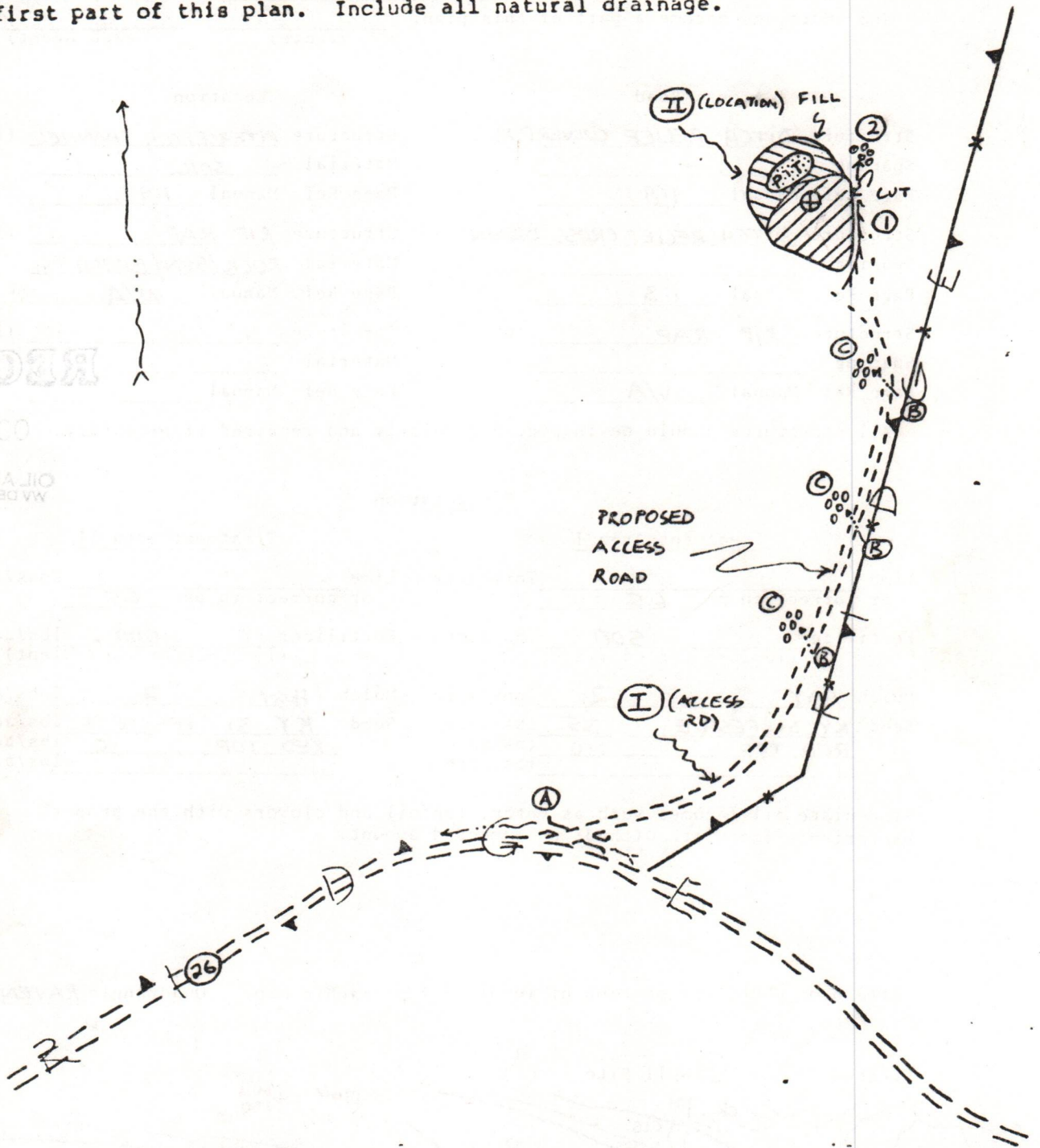


Well Site Plan

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.



Comments: AV. SLOPE ACCESS ROAD = 10% ; SITE LOCATED IN WOODS + WILL BE CLEARED
AND PILED BEFORE MAKING CUT ; ENTRANCE TO ACCESS RD. WILL BE STONED ;
ACCESS ROAD FOLLOWS RIDGE TO LOCATION

Signature J. Ellen Adams P. O. Box 131 Glenville, WV 26351 (304) 463-5774
 Agent Address Phone Number

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

NOWSCO

TREATMENT REPORT
CEMENTING

WELL SERVICE

DATE: 12/10/81

SERVICE ORDER NO.: 001086

Customer's Name BERG PETROLEUM INC.

Well Name STATE FARM # 29-81

Address BOX 782

LSD _____ SEC. _____ TWP. _____ RGE. _____ W _____

CAMBRIDGE, OHIO 43725

Contractor ADAMS # 9 Province WVa.

TYPE OF JOB Surface Intermediate Production Liner Abandonment
Multistage Plug Back Squeeze Pumping Other

WELL DATA

Hole: Size 10 5/8 INCH Total Depth 1241 FT. Mud Type _____ Viscosity _____ CP Density _____ LBS./GAL.

(Casing) or Liner: Size 8 5/8 IN. Lin. Density 23 LBS./FT. Grade CC5 Depth 1224 FT.

Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Drill Pipe or Tubing:

Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Size _____ IN. Lin. Density _____ LBS./FT. Grade _____ Depth _____ FT.

Perforations: From _____ FT. To _____ FT. Pump Out Lines: Yes No Cement Mud Other _____

From _____ FT. To _____ FT. Float Holding: Yes No Returns: Full Partial Nil

From _____ FT. To _____ FT. Type of Packer or Special Tool _____ Depth _____ FT.

Time arrived on location 6:00 P.M. 12/10/81 Time left location 12:00 P.M. 12/10/81

CEMENT DATA

Amount CU. FT. Cement Blend	Additives	Density LBS./GAL.	Yield, CU. FT./SK	Total Slurry Yield, CU. FT.
Fill 180 sks 50-50	2 % Gel	14.1	1.26	40.3 BBLS.
Tail-In 75 sks Type #1	3 % CACL2	15.6	1.18	15.7 BBLS.
Fill				
Tail-In				

CASING OR LINER DATA

PLUG BACK DATA

REMARKS - P.M.	Time		Rate bbls/min	Pressure, Psi		Volume pumped bbls.	Plug #	Top FT.	Btm. FT.	Cement CU. FT.	Displacement BBLS.	Time Plug Down
	Start	Finish		Max.	Min.							
WATER AHEAD	7:15	7:24	5	100	0	40						
IX GEL	7:24	7:34	5	300	300	50						
WATER BEHIND	7:34	7:36	5	300	300	10						
IX CEMENT	7:36	7:49	4.5	400	300	56						
ISP.	7:50	8:03	4.3	900	300	56 (77.9)						
UNABLE TO FINISH DISP. (NO CIRCULATION)												



Date 9-10-84
 Operator's Well No. 29-81
 Farm State Farm
 API No. 47-073-1343

State of West Virginia
 Department of Mines
 Oil and Gas Division

IV-35
 (Rev. 8-81)
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: 1020' 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 26149
 PERMIT ISSUED 10-27-81
 DRILLING COMMENCED 12-8-81
 DRILLING COMPLETED 12-15-81

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"	45		
9 5/8			
8 5/8	1241		214
7			
5 1/2			
4 1/2	4530		416
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Devonian Shale Depth 5500 feet
 Depth of completed well 4615 feet Rotary / Cable Tools___
 Water strata depth: Fresh 120 feet; Salt none feet
 Coal seam depths: none Is coal being mined in the area? no

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 1343

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

Not frac'd as of this date

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	1220	
Shale			1220	1556	
Third Salt Sand			1556	1582	
Shale			1582	1627	
Maxon			1627	1646	
Big Lime			1646	1724	
Keener			1724	1758	
Shale			1758	1762	
Big Injun			1762	1898	
Shale			1898	1903	
Squaw			1903	1945	
Shale			1945	2283	
Berea			2283	2286	
Shale			2286	2397	
Fifty Foot			2397	2486	numerous shale breaks
Shale			2486	2512	
Thirty Foot			2512	2580	
Shale			2580	2681	
Gordon Stray			2681	2688	
Shale			2688	2714	
Gordon			2714	2792	numerous shale breaks
Shale			2792	3500	
Tiona			3500	3525	
Shale			3525	3712	
Speechley			3712	3780	
Shale			3780	4582	

(Attach separate sheets as necessary)

X BERG PETROLEUM, INC.
 Well Operator
 By: Budley 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."

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. 073-1343 County. Pleasants
 Company. BERG Petroleum, Inc. Farm. State Farm
 Inspector. Robert Lowther Well No. 29-81
 Date. August 31, 1984 Issued. 10-27-81

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
P. O. Box 782
Cambridge, Ohio 43725

PERMIT NO 073-1343
FARM & WELL NO State Farm #29-81
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 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.L. v. B.
Administrator-Oil & Gas Division

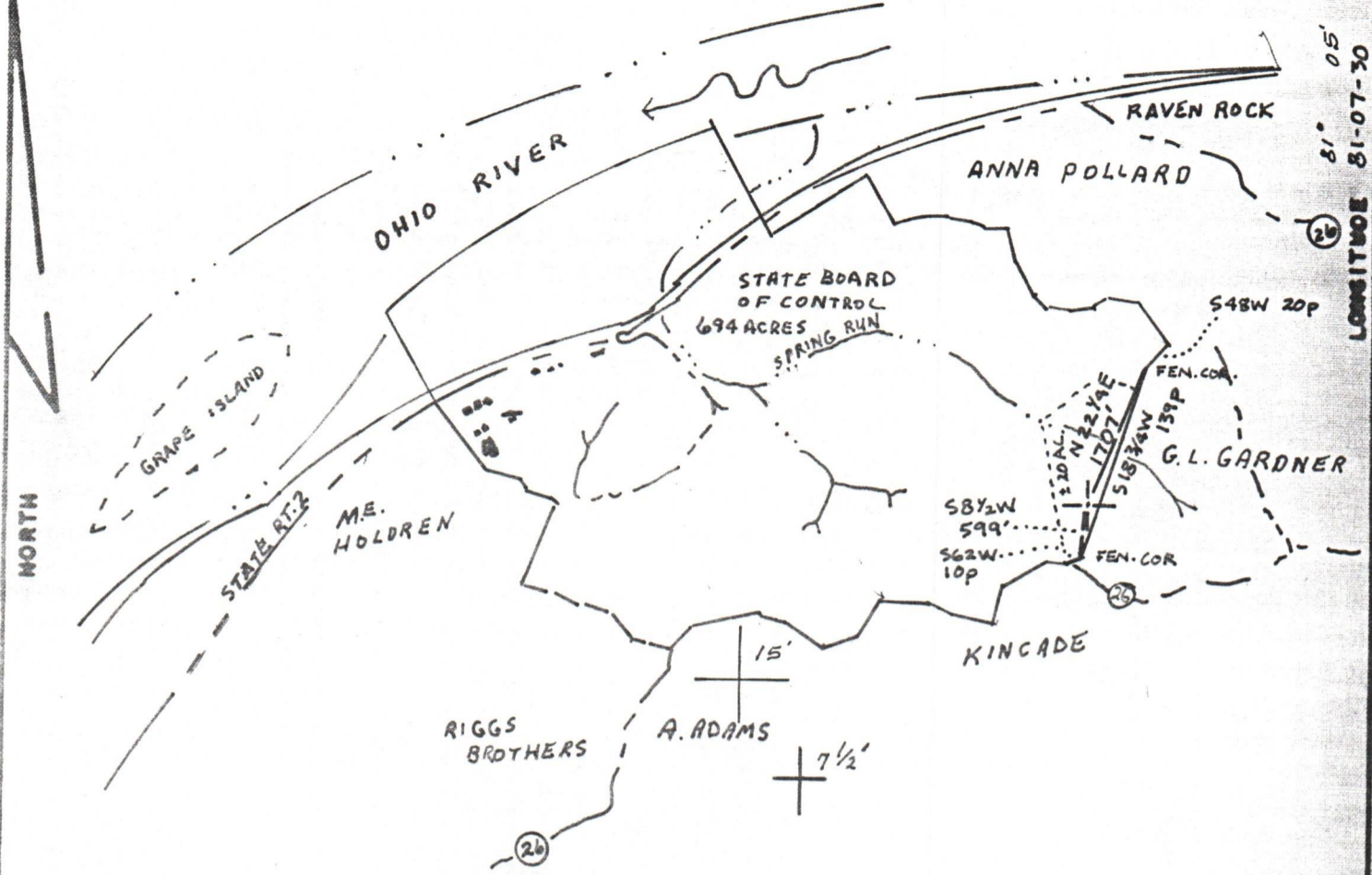
January 9, 1985

DATE

6420'

LATITUDE 39-27-30
39° 30'
11030 SOUTH
6420 WEST

LONGITUDE 81-07-30



FILE NO. SF 29
 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 18 MAY, 1981
 OPERATOR'S WELL NO. SF 29
 API WELL NO. 47-073-1343
 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 1020 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.F. # 29-81
 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 REPLUS _____
 TARGET FORMATION ELK & BENSON 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 Glendville, W. Va 26351