



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1:500
 PROVEN SOURCE OF ELEVATION ROAD INT. 1022'

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 R. Mossel
 R.P.E. _____ L.L.S. 551

PLACE SEAL HERE

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



DATE 6 JUNE, 19 80
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-073-0885
 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 1026' WATER SHED Rock Run of Mekim Creek
 DISTRICT LAFAYETTE COUNTY PLEASANTS 82C
 QUADRANGLE BENS RUN, W.VA. 7 1/2' QUAD. ST MARYS 25'
 SURFACE OWNER JEROME M. REA ACREAGE 20
 OIL & GAS ROYALTY OWNER JEROME M. REA LEASE ACREAGE 20
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION cow run ESTIMATED DEPTH 1026'
 WELL OPERATOR ANDERSON PETRO DESIGNATED AGENT ALLEN M. ANDERSON
 ADDRESS RT. 1 Box 195 FLEMING, OH. 45729 ADDRESS RT. 1 FLEMING, OH. 45729

BOB LOWTHER

WR-35



RECEIVED
MAY 21 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

Date 4-30-87
Operator's
Well No. 4
Farm REA
API No. 47-073-1885

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: 1026 Watershed MCKIMCREEK
District: LAFAYETTE County PLEASANTS Quadrangle BENS RUN

COMPANY ALLAN ANDERSON

ADDRESS Rt 1 Box 195 Flemingo 45729

DESIGNATED AGENT HARRY L SILER JR.

ADDRESS R# 3 ST. MARYS WVA

SURFACE OWNER JERRY REA

ADDRESS _____

MINERAL RIGHTS OWNER saml

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Philip

Tracy ADDRESS Middlebourne W. Va

PERMIT ISSUED _____

DRILLING COMMENCED 7-10-80

DRILLING COMPLETED 7-31-80

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"			
9 5/8			
8 5/8	250	250	70SKS
7			
5 1/2	1015	1015	
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Cow Run Sand Depth 1025-1060 feet

Depth of completed well 1070 feet Rotary / Cable Tools

Water strata depth: Fresh 0 feet; Salt 0 feet

Coal seam depths: 0 Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Cow Run Sand Pay zone depth 1024-1044 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 1 1/2 Bbl/d

Final open flow _____ Mcf/d Final open flow 1 1/2 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

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(Continue on reverse side)

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

well shot in cow run sand with 20 qts
Nitro Glycerin

WELL LOG

FORMATION		COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
FROM	TO	MATERIAL				Including indication of all fresh and salt water, coal, oil and gas
						REMARKS
0	7	RED CLAY				
7	60	YELLOW SHALE				
60	90	YELLOW SANDSTONE				
90	105	GRAY SHALE				
105	120	RED SHALE				
120	125	GRAY SHALE				
125	175	RED SHALE				
175	186	GRAY SHALE				
186	215	RED SHALE				
215	235	GRAY SHALE				
235	255	RED SHALE			250 FT 8 5/8	
255	275	GRAY SHALE				
275	285	RED SHALE				
285	295	RED SANDY SHALE				
295	325	RED SHALE				
325	345	GRAY SHALE & LIME				
345	371	RED SHALE				
371	377	GRAY SANDSTONE				
377	415	RED SHALE				
415	425	GRAY SANDY SHALE				

RECEIVED
MAY 21 1987

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Well Operator

By: Harry L. Siple

Date: _____

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."

FROM	TO	MATERIAL	REMARKS
425	440	RED SHALE	073 885
440	448	GRAY SHALE	
448	463	SANDSTONE	
463	493	GRAY SHALE	
493	500	LIMESTONE	
500	585	RED SHALE	
585	603	GRAY SHALE	
603	647	RED SHALE	
647	744	GRAY SHALE	
744	757	SANDSTONE	
757	795	GRAY SHALE	
795	826	LIMESTONE	
826	911	REDSHALE	
911	920	GRAY SHALE	
920	936	RED SHALE	
936	950	SANDSTONE	
950	1001	GRAY SHALE	
1001	1008	REDSHALE	
1008	1015	GRAY SHALE	

over

JUN 1 1987



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

Surface Owner Jerome M. Rea
Address Rt. #1, Belmont, W. Va. 26134
Mineral Owner Jerome M. Rea
Address Rt. #1, Belmont, W. Va. 26134
Coal Owner Jerome M. Rea
Address Rt. #1, Belmont, W. Va. 26134
Coal Operator none
Address _____

DATE June 10, 1980
Company Allen M. Anderson
Address Rt. #1, Box 195, Fleming, Ohio
Farm Jerome M. Rea Acres 20 45729
Location (waters) Rock Run of McKin Creek
Well No. Rea #4 Elevation 1026 ft.
District Lafayette County Pleasants
Quadrangle Ben's Run, W. Va.

drilling

3-2-81

INSPECTOR
TO BE NOTIFIED Phillip Lee 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 April 4 1979 by Jerome M. Rea made to Allen M. Anderson and recorded on the 6th day of April 1979, in Pleasants County, Book 151 Page 541
XX 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,
(Sign Name) Allen M. Anderson
Well Operator

Address of Well Operator Rt. #1, Box 195
Street Fleming
City or Town Ohio
State 45729

*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.

47-073-0885

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 Allen M. Anderson

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

PROPOSED WORK ORDER TO XX DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT
 NAME Sieler & Sons Drillers NAME Lee Sieler
 ADDRESS Belmont, W. Va. ADDRESS Rt. # 3, St. Marys, W. Va. 26180
 TELEPHONE 665-2359 TELEPHONE 1-804-665-2359
 ESTIMATED DEPTH OF COMPLETED WELL: 1050 Ft. ROTARY CABLE TOOLS XX
 PROPOSED GEOLOGICAL FORMATION: Cow Run Sand
 TYPE OF WELL: OIL GAS COMB. X STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5 8			
8 - 5 8			
7		250 ft.	Cement to surface
5 1/2	1000ft.		200 SACKS
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 150 FEET SALT WATER FEET
 APPROXIMATE COAL DEPTHS
 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 hereof.

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 1, 2 and 7, Chapter 22 of the West Virginia Code.

 Coal Company
 Official Title