

Date: 5-27-81
Farm: Nagle # 1
Name: _____

OIL AND GAS WELL PERMIT APPLICATION

API No. 47-073-121
State County Per _____

WELL TYPE: Oil / Gas
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 645 Watershed: Middle Island Creek
District: UNION County: Pleasants Quadrangle: BENS RUN 74

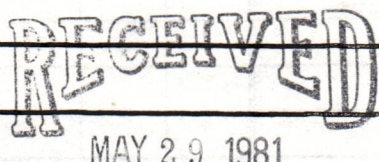
WELL OPERATOR Lauderman Oil & Gas Drilling DESIGNATED AGENT Phillip Morgan
Address PO Box 266 Address SAME
Paden City, WVA 26159

OIL & GAS
COALTY OWNER Danny Nagle
Address R.F.D. Bens Run
Starr Rt. WVA.

COAL OPERATOR N/A.
Address _____

ACREAGE 94
SURFACE OWNER Danny Nagle
Address SAME
ACREAGE 94

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name N/A
Address _____
Name OIL & GAS DIVISION
Address DEPT. OF MINES



FIELD SALE (IF MADE) TO:
Name N/A
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
Name Phillip Tracy Rt 23 Alma, WVA

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease / other contract ___ / dated 8/20, 1971, to the undersigned well operator from Donald R. Barnhart & Mildred Barnhart if said deed, lease or other contract has been recorded: recorded on 10/22, 1971, in the office of the Clerk of the County Commission of Pleasants County, West Virginia, in St Marys WVA Book 131, at page 517. A permit is requested as follows

PROPOSED WORK: Drill / Drill Deeper ___ / Redrill ___ / Fracture or stimulate / Plug off old formation ___ / Perforate new formation / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by Department. Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abovenamed coal operator, coal owner(s), and coal lessees on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO: **BLANKET BOND** Lauderman Oil & Gas Drilling
Office of Oil and Gas Phillip Morgan, Agent

Date 5-11-1981 #510
Well No. 1 Danny Nagle
API No. 47 - 073 - 1210
State County Permit

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS

Company Name Lauderman Oil Gas Designated Agent Philip Morgan
Address Box 266 Padon City W.Va Address Same
Telephone 304-337-2215 Telephone 304-337-2215
Landowner Danny Nagle Soil Cons. District UPPER OHIO
Revegetation to be carried out by Earnie Hebbel (Agent)
This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan. 5/15/81 (Date) Russell R. Plam (SCD Agent)

Access Road	Location
Structure _____ (A)	Structure _____ (1)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

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MAY 29 1981
OIL & GAS DIVISION
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary.

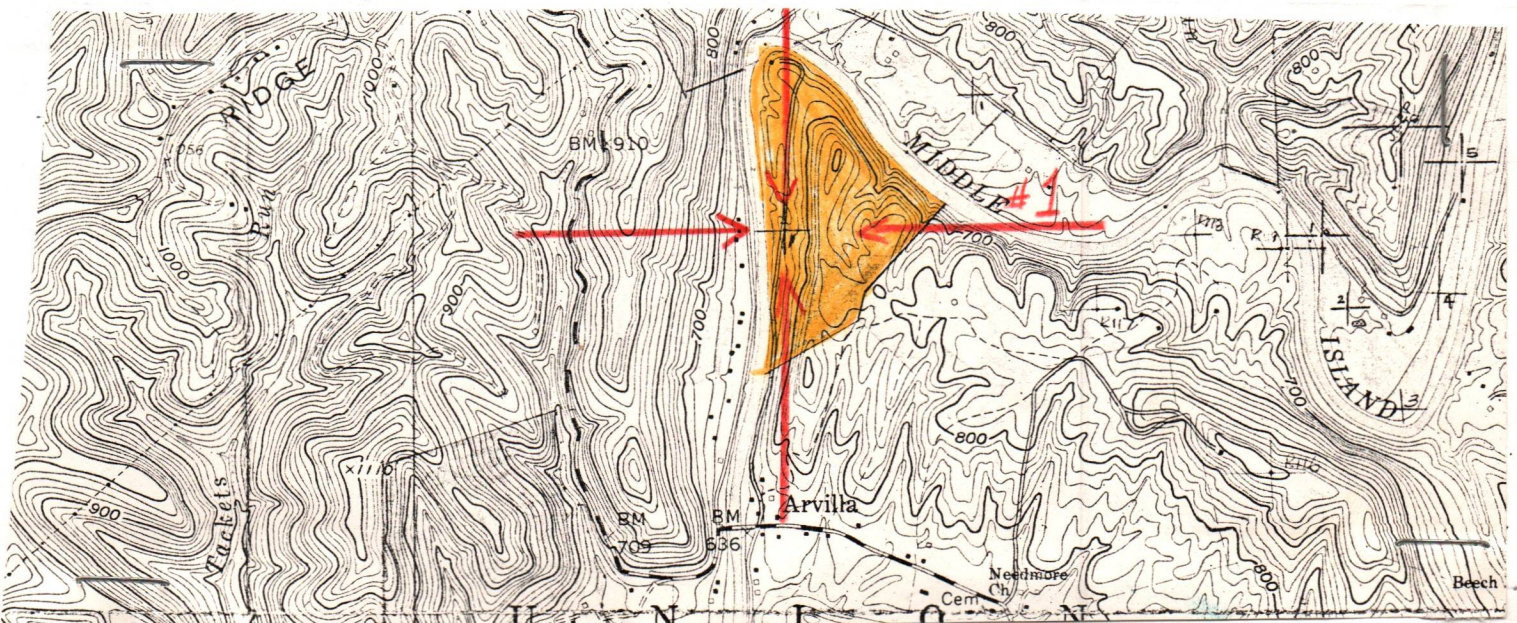
Revegetation

Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ 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</u> <u>2</u> Tons/Acre	Mulch <u>Hay</u> <u>2</u> Tons/Acre
Seed* <u>KY 31 FESCUE</u> <u>35</u> lbs/acre	Seed* <u>KY 31</u> <u>35</u> lbs/acre
<u>Red Top</u> <u>5</u> lbs/acre	<u>Red Top</u> <u>5</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 Bens Run.

Legend:  Well Site
 Access Road

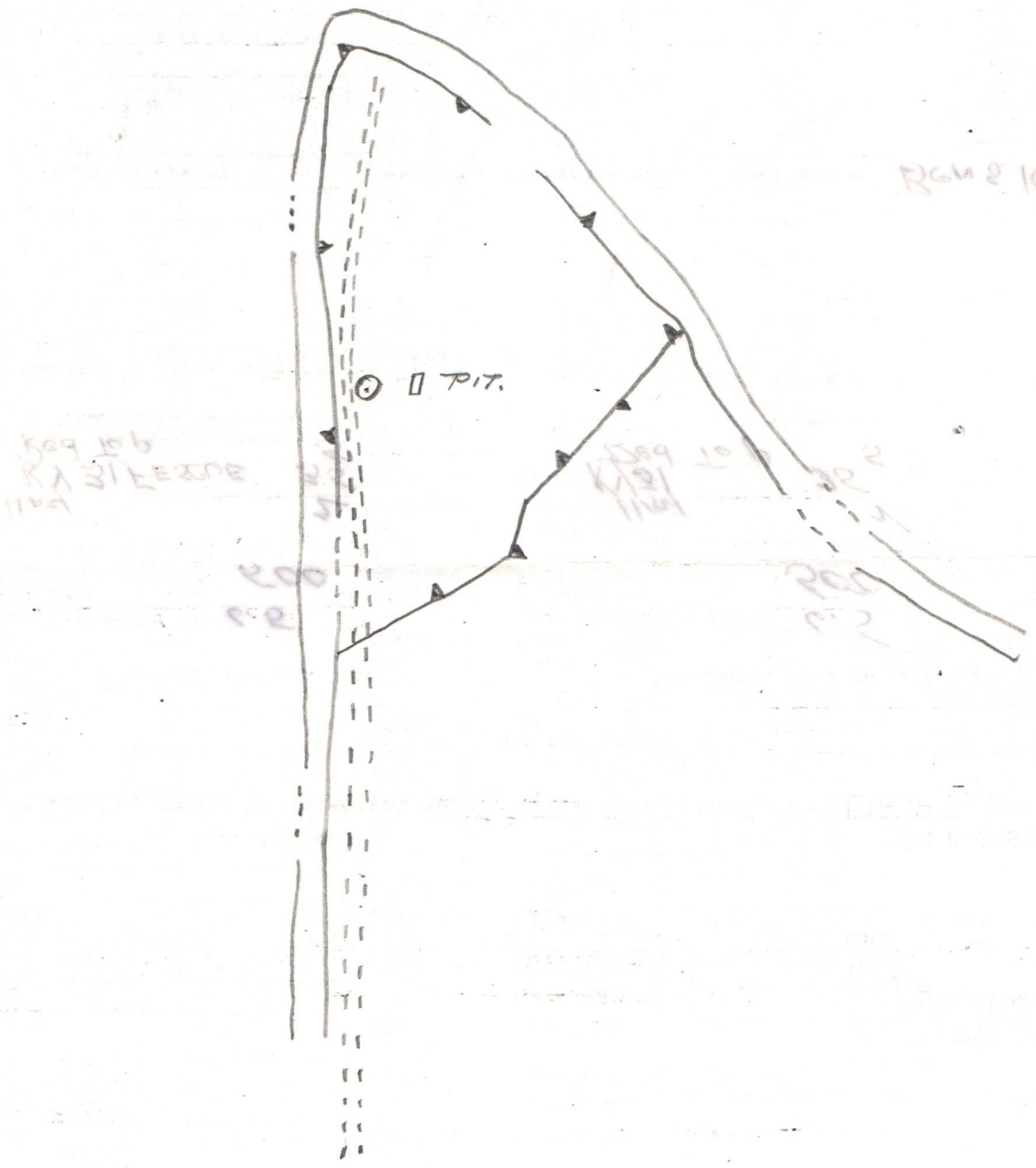


Well Site Plan

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: (1) No Access Road Needed
 (2) Location Located in Brush Area
 (3) Site Level - No Cut or Fill

Signature: Robert Morgan Agent Address: PO Box 766, Paducah, KY 26159 Phone Number: 304-337-2215

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

Handwritten notes:
 P. Donald
 R-11-
 81

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JUN 18 1984



OIL & GAS DIVISION
DEPT. OF MINES State of West Virginia
Department of Mines
Oil and Gas Division

Date
Operator's
Well No. Nagle # 1
Farm Danny Nagle
API No 47 - 073 - 1210

IV-35
(Rev 8-81)

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

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

LOCATION: Elevation: 645' Watershed Middle Island Creek
District: Union County Pleasants Quadrangle Bens Run

COMPANY BKK Prospecting, LTD
ADDRESS 45 North Road, Niles, Ohio 44446
DESIGNATED AGENT John Graham
ADDRESS 209 Second ST. St. Marys, WV 26170
SURFACE OWNER Danny Nagle
ADDRESS St. Marys, WV 26170
MINERAL RIGHTS OWNER Danny Nagle
ADDRESS St. Marys, WV 26170
OIL AND GAS INSPECTOR FOR THIS WORK
Phil Tracy ADDRESS Rt 3 Alma, WV 26320
PERMIT ISSUED 5/26/81
DRILLING COMMENCED 6/26/81
DRILLING COMPLETED 6/1/81

Table with 4 columns: Casing/Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16, 13-10, 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2, and Liners used.

GEOLOGICAL TARGET FORMATION Ohio Shale Depth 4758 feet
Depth of completed well 4758 feet Rotary X / Cable Tools
Water strata depth: Fresh 90,140 feet; Salt 1100 feet
Coal seam depths: 1000, 1110, 1395 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Benson Riley Pay zone depth 4355-4368 feet
Gas: Initial open flow 100,000 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow testing Mcf/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests testing hours
Static rock pressure 600 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

Pages 1210

(Continue on reverse side)

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

Perforated 3126-3811 21 shots

Fractured 60,000 # sand, 235 BBLs Water, 605,500 SCF Nitrogen foam

Perforated 4064-4373 22 shots

Fractured 60,000# Sand, 250 BBLs Water, 630,000 SCF Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fre and salt water, coal, oil and g
Sand & Shale	Gray	Hard	0	880	Freshwater
Shale	Gray	Med	880	920	
Sand	Gray	Hard	920	944	
Shale	Dark	Hard	944	1020	Coal Seam
Sand	Gray	Hard	1020	1045	
Shell	Dark	Med	1045	1199	Saltwater, Coal seam
Sand	Light	Soft	1199	1280	
Shale	Gray	Med	1280	1333	
Sand	lt Gray	Soft	1333	1366	Gas
Shale	Dk Gray	Med	1366	1418	Coal Seam
Sand	Gray	Hard	1418	1486	
Shale	Gray	Soft	1486	1519	
Sand	GRay	Med	1519	1655	Saltwater Big Injun
Shale	Gray	Med	1655	4758	Gas & Oil Gordon Devonian. Sha

(Attach separate sheets as necessary)

BKK Prospecting, LTD

Well Operator

By: John Hudson Designated Agent

Date: January 15, 1982

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
..., encountered in the drilling of a well."



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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
July 25, 1984

Lauderman Oil & Gas dba/
COMPANY BKK Prospecting, Ltd.

PERMIT NO 073-1210 (5-29-81)

45 North Road

FARM & WELL NO Danny Nagle #1

Niles, Ohio 44446

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. H. Lowther

DATE July 31, 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. B. B.
Administrator-Oil & Gas Division

September 27, 1984

DATE

7960'

LATITUDE 39°27'30"
39° 30'

81° 00'
LONGITUDE 81°02'30"
5230'

ELMER TICE
#1 0
100 Ac

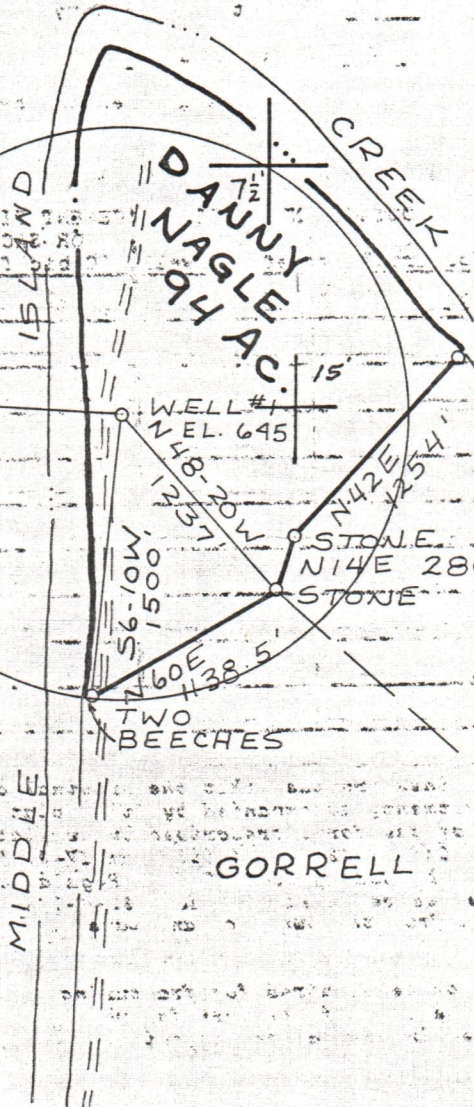
TICE
#1 0

MONROE
#1

MONROE
115 Ac

NORTH

MALINDA WILLIAMSON
100 Ac

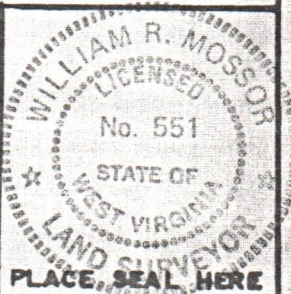


SUSAN COLVIN
32 Ac

GORRELL

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION Bm at Bridge 636'

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. Mossor*
 R.P.E. _____ L.L.S. 551



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-79)



DATE 27 May, 19 81
 OPERATOR'S WELL NO. 1
 API WELL NO. 47-073-1210
 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 645 WATER SHED Middle Island Creek
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Bens Run, W. Va. 7 1/2' Quad.
 SURFACE OWNER Danny Nagle ACREAGE 94
 OIL & GAS ROYALTY OWNER Danny Nagle LEASE ACREAGE 94
 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) _____
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Shale ESTIMATED DEPTH 4900'
 WELL OPERATOR Lauderman O+G DESIGNATED AGENT Phillip Morgan
 ADDRESS Box 266 ADDRESS Box 266
Paden City, W. Va. 26159 Paden City, W. Va. 26159