

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:

ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) Union Drilling Company, Inc.
P. O. Drawer 1740
Buckhannon, West Virginia 26201

GEOLOGICAL TARGET FORMATION, E1k

Estimated depth of completed well 5100 feet Rotary XXX / Cable tools /

Approximate water strata depths: Fresh, 277 feet; salt, feet.

Approximate coal seam depths: 448-452 Is coal being mined in the area? Yes / No /

CASING AND TUBING PROGRAM 510-513; 726-730

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP or SACKS (Cubic Feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drilling	Left in well		
Conductor	16"				X	20'	20'	cement to surface	Kinds
Fresh Water	8-5/8"								Sizes
Coal	8-5/8"		20#	X		1200'	1200'	cement to surface	
Intermediate									Depths set
Production	4-1/2"		J-55 10.50#	X		5100'	5100'	cement to 300' above producing horizon or as required by Rule 15.01	
Tubing									Perforations:
Liners									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the form prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9 "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued with fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements by the West Virginia Code and the governing regulations.

Date: 19

BY:

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
 ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
 ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
 APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
 IF OPERATIONS HAVE NOT COMMENCED BY 11-11-82.
 BY [Signature]

10/20/2023

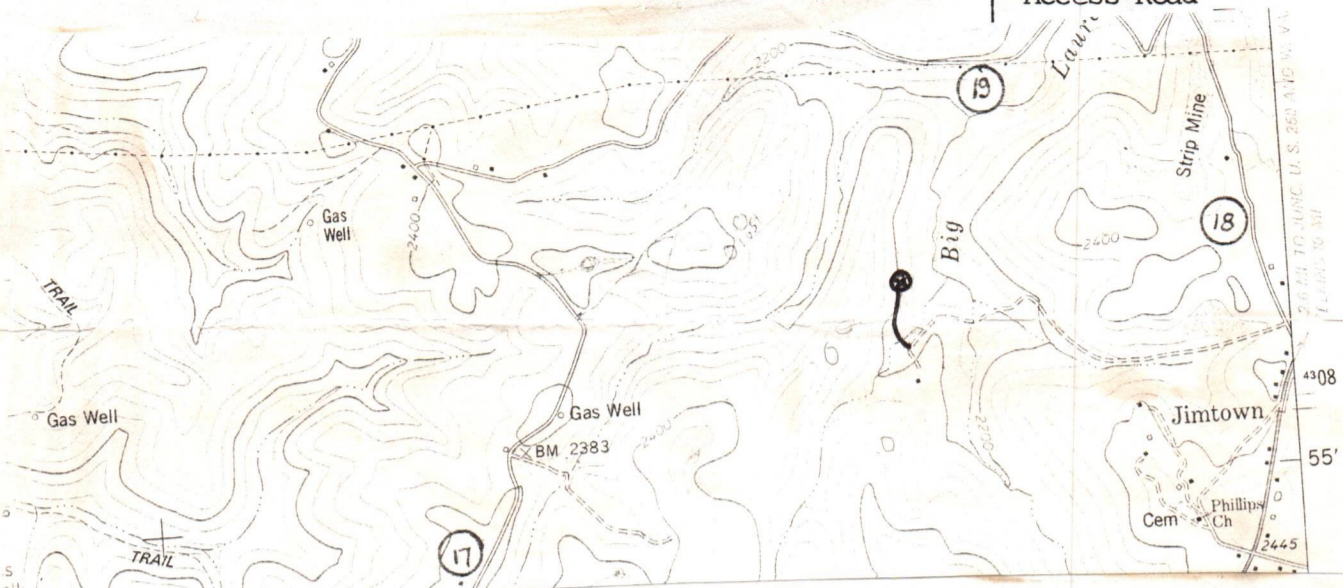
MINING BOARD

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Ellamore 7.5'

LEGEND

Well Site ○

Access Road



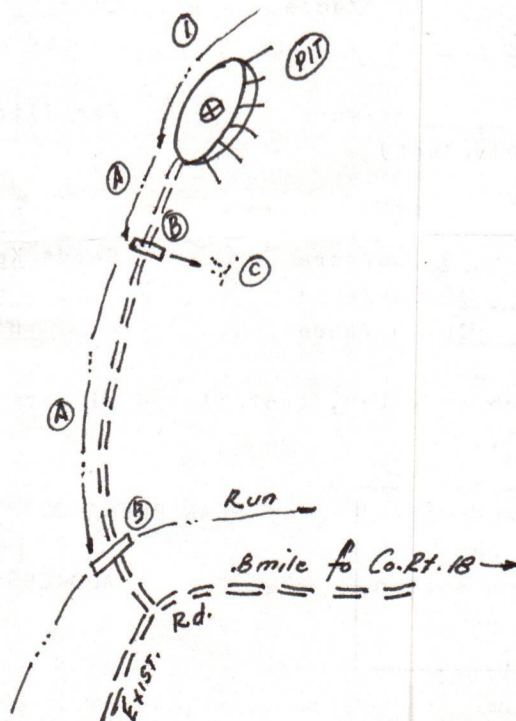
Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

Property boundary	▲ —▲ —▲ —▲ —▲	Diversion	//////
Road	====	Spring	○ →
Existing fence	— x — x —	Wet Spot	♂
Planned fence	— / — / —	Building	■
Stream	~ ~ ~ ~	Drain pipe	— ○ —> ○ —>
Open ditch	— · · · —>	Waterway	← — — — —

COMMENTS:

Slope of access road 9% -- Cuts to be on a 2:1 slope or less. Access road subject to change by company of landowner. All ditches and culverts will be maintained after construction is completed.



10/20/2023



Date February 19, 1982
 Well No. A-1066
 API No. 47 - 083 - 0627
 State County Permit

State of West Virginia
 Department of Mines
 Oil and Gas Division

Form IV-9
 [Rev 8-81]



CONSTRUCTION AND RECLAMATION PLAN

Company Name Allegheny Land & Mineral Co.
 Address P. O. Box 1740
Clarksburg, West Virginia
 Telephone 623-6671
 Landowner Charles A. Madden, Jr.

Designated Agent J. Ronald Cullen
 Address P. O. Box 1740
Clarksburg, West Virginia
 Telephone 623-6671
 Soil Cons. District Tygarts Valley

Revegetation to be carried out by Halls Reclamation, Inc. (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections
 and additions become a part of this plan. 2-26-82 J. Ronald Cullen
 (Date) (SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch (A)
 Spacing Earthen
 Page Ref. Manual 1-10

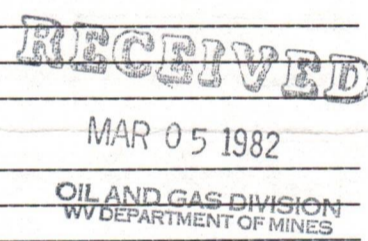
Structure Drainage Ditch (1)
 Material Earthen
 Page Ref. Manual 1-10

Structure Culverts (B)
 Spacing 12" Min. I.D. (Where needed)
 Page Ref. Manual 1-8

Structure _____ (2)
 Material _____
 Page Ref. Manual _____

Structure Rip-Rap (C)
 Spacing Rock
 Page Ref. Manual N/A

Structure _____ (3)
 Material _____
 Page Ref. Manual _____



All structures should be inspected regularly and repaired if necessary. All commercial timber 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

TREATMENT AREA II

Lime 3 Tons/acre
 or correct to pH 6.5

Lime 3 Tons/acre
 or correct to pH 6.5

Fertilizer 600 lbs/acre
 (10-20-20 or equivalent)

Fertilizer 600 lbs/acre
 (10-20-20 or equivalent)

Mulch Straw 2 Tons/acre
 Seed* Kentucky 31 40 lbs/acre
Domestic Ryegrass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

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 Seed* Kentucky 31 40 lbs/acre
Domestic Ryegrass 10 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

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

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY J. Ronald Cullen 10/20/2023

ADDRESS P. O. Drawer 1740

Clarksburg, West Virginia 26301-1740

PHONE NO. 623-6671



Date September 8, 1982
 Operator's _____
 Well No. A-1066
 Farm Madden
 API No. 47 -083 - 0627

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES

OIL and GAS DIVISION

WELL OPERATOR'S REPORT
 OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: OIL ___ / GAS X ___ / LIQUID INJECTION ___ / WASTE DISPOSAL ___ /
 (If "Gas", Production ___ / Underground Storage ___ / Deep ___ / Shallow XX /)

LOCATION: Elevation: 2186' Watershed Big Laurel Run
 District: Roaring Creek County: Randolph Quadrangle: Ellamore 7.5'

COMPANY Allegheny Land and Mineral Co.
200 West Main Street

ADDRESS Clarksburg, West Virginia 26301

DESIGNATED AGENT Allegheny Land & Mineral
200 West Main Street

ADDRESS Clarksburg, West Virginia 26301

SURFACE OWNER Charles A. Madden, Jr.

ADDRESS Star Rt Box 52, Coalton, W.Va.

MINERAL RIGHTS OWNER same as above

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Stewart ADDRESS P.O. Box 345, Jane Lew, W.V.

PERMIT ISSUED March 11, 1982

DRILLING COMMENCED July 21, 1982

DRILLING COMPLETED July 28, 1982

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

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. Ft.
20-16			
11 3/4"	15'	15'	
9 5/8"			
8 5/8"	804.41'	804.41'	to surface
7"			
5 1/2"			
4 1/2"	4937'	4937'	w/300 sks. 3200'
3			
2			
Liners used	RECEIVED SEP - 9 1982 OIL AND GAS DIVISION WV DEPARTMENT OF MINES		

GEOLOGICAL TARGET FORMAION Elk DEPTH 5100 FEET

Depth of completed well 5124 feet Rotary xxx / Cable Tools _____
 Water Strata depth: Fresh 143 & 410 feet Salt _____ feet
 Coal seam depth: 630-633 Is coal being mined in this area? _____

OPEN FLOW DATA

Producing formation Elk, Alexander & Benson Pay zone depth _____ feet
 Gas: Initial open flow 53 Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 1237 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests 2, hours

Static rock pressure 1500 psig (surface measurement after 72 hours shut-in
 (If applicable due to multiple completion--)

Second producing formaiton _____ Pay zone dpeth 10/20/2023 feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d 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)

RAN - 0627

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

Well was fractured August 9, 1982
 Perforations: 3634 - 3642 16 holes
 3936 - 3942 16 holes
 4803 - 4808 7 holes
 4812 - 4819 9 holes

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand	0	57	1" water @ 143'
Sand & Shale	57	630	1 1/2" water @ 410'
Coal	630	633	Gas check @ 1426' no show
Sand & Shale	633	1117	Gas check @ 1634' 79MCF
L. Lime	1117	1136	Gas check @ 1813' 79MCF
Shale	1136	1181	Gas check @ 1990' 49MCF
B. Lime	1181	1326	Gas check @ 2289' 61MCF
Injun	1326	1353	Gas check @ 2688' 63MCF
Sand	1353	1445	Gas check @ 2747' 64MCF
Shale	1445	1590	Gas check @ 3529' 61MCF
Sand	1590	1598	Gas check @ 4220' 47MCF
Shale	1598	1640	Gas check @ 4726' 47MCF
Sand & Shale	1640	1926	Gas check @ 4849' 51MCF
4th Sand	1926	1942	Gas check @ 4969' 53MCF
Red Rock & Shale	1942	2094	Gas check @ 5092' 53MCF
5th Sand	2094	2121	Gas check @ 5124' 53MCF
Sand & Shale & Red Rock	2121	2202	
Speechly	2202	2237	
Shale	2237	2690	
Balltown	2690	2700	
Shale	2700	3493	
Riley	3493	3541	
Shale	3541	3622	
Benson	3622	3647	
Shale	3647	4796	
1st Elk	4796	4828	
Shale	4828	4875	
2nd Elk	4875	4945	
Shale	4945	5028	
3rd Elk	5028	5068	
Shale	5068	5124 T.D.	

(Attach separate sheets as necessary)

Allegheny Land and Mineral Company
 Well Operator

By: A. J. Sabat
 Vice President Oil & Gas Operations

Date: 9/8/82

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."

10/20/2023



RECEIVED

FEB 19 1985

OIL & GAS DIVISION
DEPT. OF MINES

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

DATE September 21, 1982

Mr. Robert Stewart
P. O. Box 345
Jane Lew, WV 26378

PERMIT NO.: 47-083-0627
COMPANY Allegheny Land and Mineral Co.
FARM: Madden
WELL NO.: A-1066
DISTRICT: Roaring Creek
COUNTY Randolph

Dear Sir:

Please make a FINAL INSPECTION within thirty (30) days of the well described above, or submit a STATUS REPORT - saying why this well can not be released at this time.

Very truly yours,

Jarah Shurt
Can be released
Phillip Tracy
2-11-85

10/20/2023



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

February 21, 1985

Barton B. Lay Jr.
Director

Theodore M. Streit
Administrator

Alamco
P. O. Drawer 1740
Clarksburg, WV 26301

In Re: PERMIT NO: 47-083-0627

FARM Charles A. Madden, Jr.

WELL NO: A-1066

DISTRICT: Roaring Creek

COUNTY: Randolph

ISSUED: 2-11-82

Gentlemen;

The FINAL INSPECTION REPORT for the above captined well has been received in this office. Only the column checked below applies:

The well designated by the above permit number has been released under your Blanket Bond.

Please return the enclosed cancelled single bond which covered the well designated by the above permit number to the surety company who executed said bond in your behalf, in order that they may give you credit on their records.

~~XXXXX~~ Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above captined well will remain under bond coverage for life of the well.

Very truly yours,

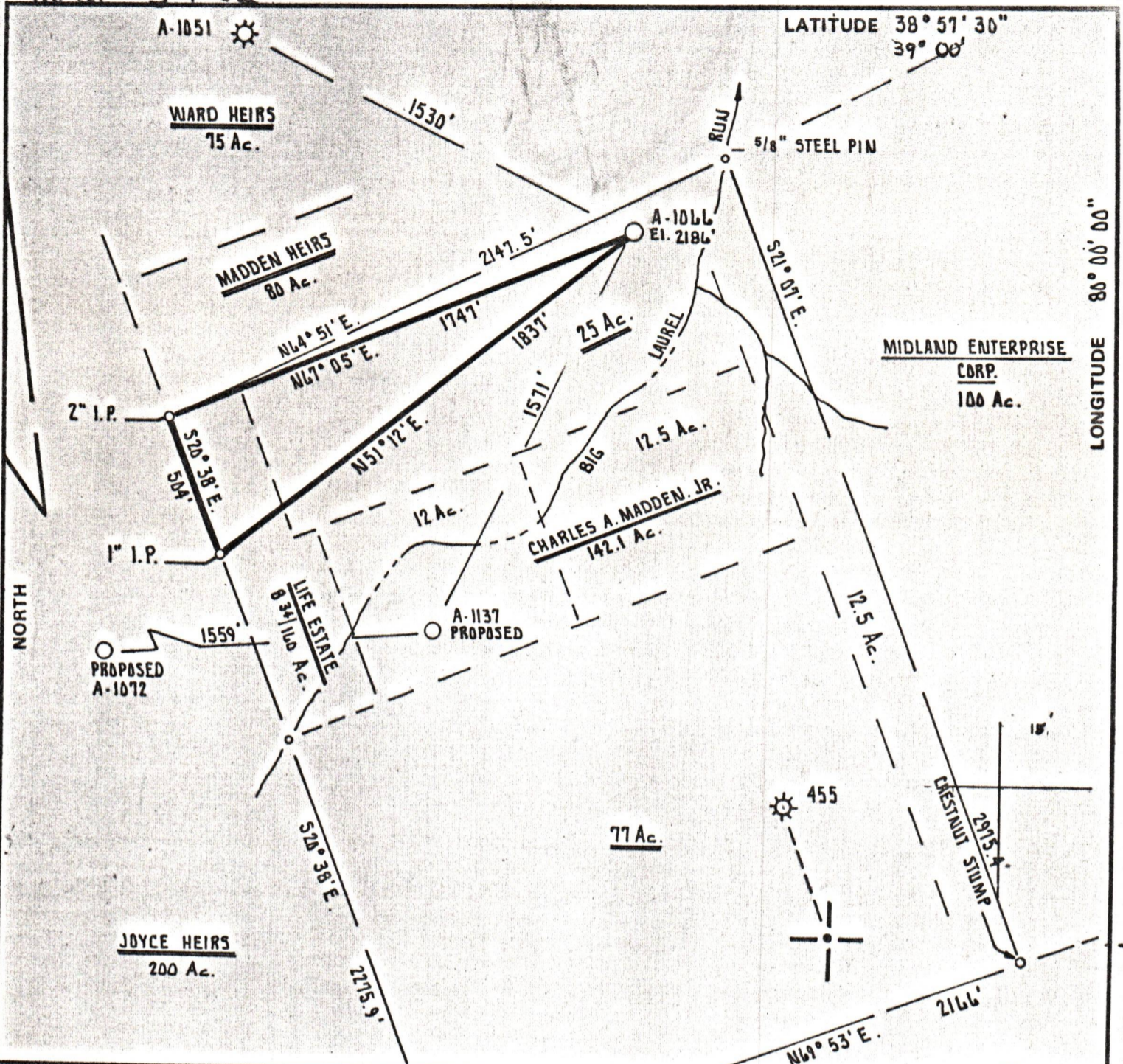
Theodore M. Streit, Administrator
Office of Oil & Gas--Dept. Mines

TMS/ nw

10/20/2023

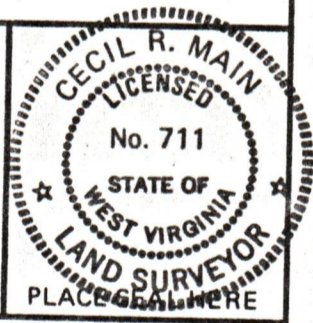
M. J. 3-1-82

4,000'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
 (17) and (17) ELEVATION 2472'

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) Cecil R. Main
 R.P.E. _____ L.L.S. 711



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



DATE FEBRUARY 16th, 19 82
 OPERATOR'S WELL NO. A-1066
 API WELL NO. 47 - 083 - 0627
 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 2186' WATER SHED BIG LAUREL RUN
 DISTRICT ROARING CREEK COUNTY RANDOLPH
 QUADRANGLE ELLAMORE 7.5'

SURFACE OWNER CHARLES A. MADDEN, JR. ACREAGE 142 Ac.
 OIL & GAS ROYALTY OWNER CHARLES A. MADDEN, JR. LEASE ACREAGE 142 Ac.

10/20/2023

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 ELK ESTIMATED DEPTH 5100'
 WELL OPERATOR ALLEGHENY LAND and MINERAL CO. DESIGNATED AGENT ALLEGHENY LAND and MINERAL CO.
 ADDRESS P.O. BOX 1740 ADDRESS P.O. BOX 1740
 CLARKSBURG, WEST VIRGINIA 26302-1740 CLARKSBURG, WEST VIRGINIA 26302-1740