

NOTES

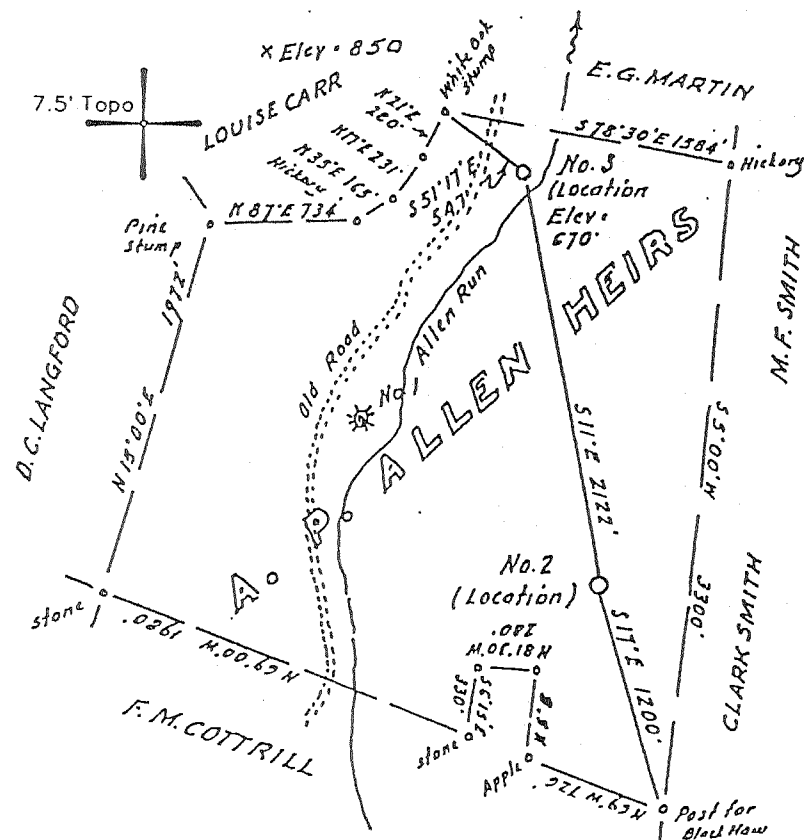
1 - The survey drawing shown hereon is from the original drilling permit plat dated 4/23/79 by M.S. Holt, Jr., P.S. Plat was re-drafted to show updated surface owner name and as-drilled Latitude and Longitude information.
 2 - Well Latitude and Longitude established by DGPS, (Sub-Meter Mapping Grade) 7/19/03.

LATITUDE 39° 27' 30"



LONGITUDE 81° 00' 00"

Latitude - 39° 26' 16.2"



LEGEND

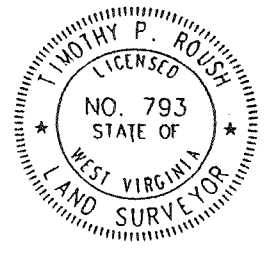
- Plotted from deed calls
- Surveyed Lines
- - - - - Roads
- * Existing Oil & Gas Wells
- o Well Locations

(H) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 111-03
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION WVDEP Records
(Original Survey)

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) [Signature]
 TIMOTHY P. ROUSH PS 793



WEST VIRGINIA
 Division of Environmental Protection
 Office of Oil and Gas
 1356 Mansford St.
 Charleston, West Virginia 25301



DATE July 21, 2003
 FARM A.P. Allen NO. 3
 API WELL NO. 47-073-00760F

WELL TYPE: OIL GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 670' WATERSHED Allen Run
 DISTRICT Union COUNTY Pleasants
 QUADRANGLE Ben's Run 7.5'

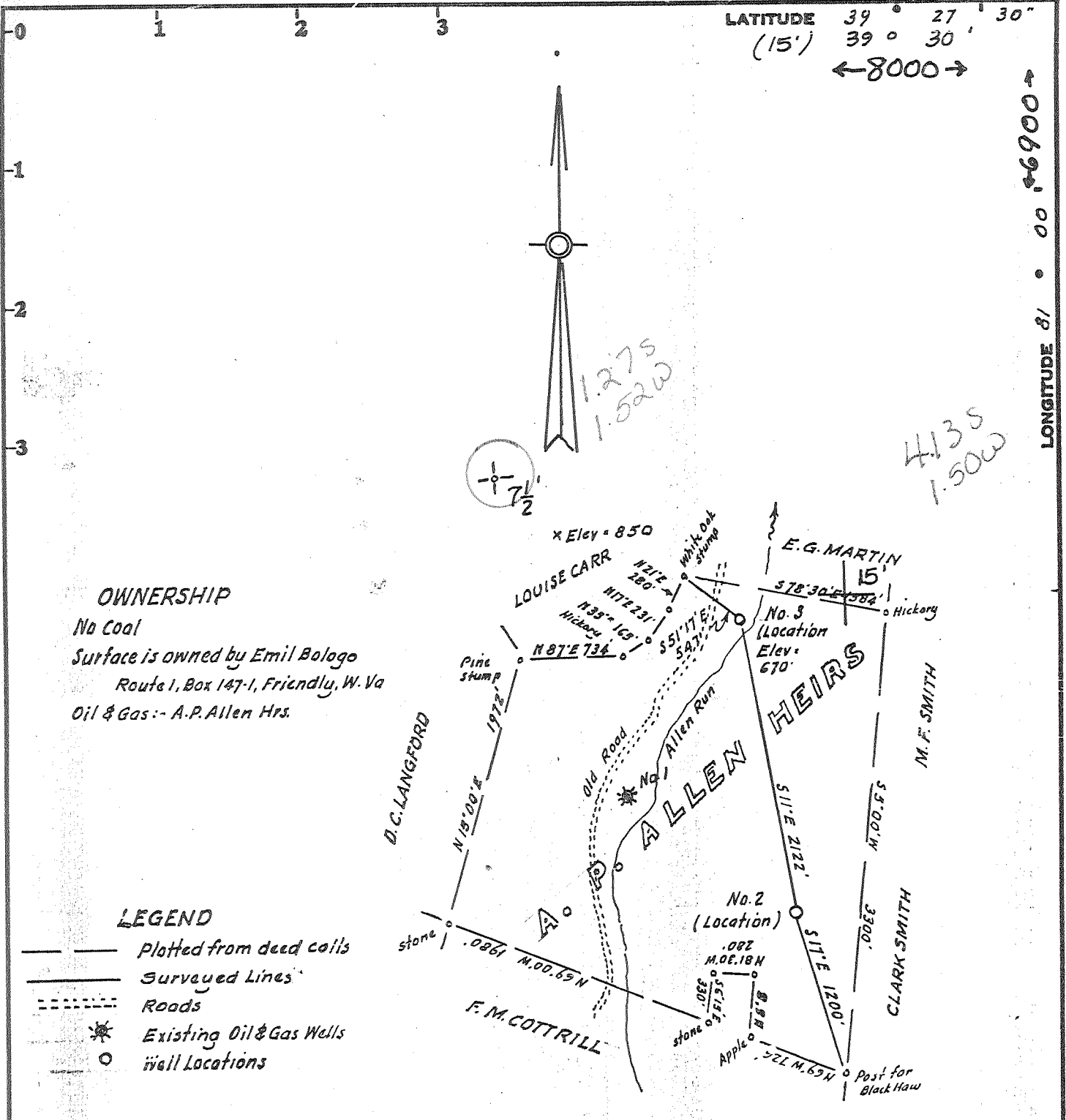
SURFACE OWNER Emil & Kathleen Bologa ACREAGE 122 Ac.
 OIL & GAS ROYALTY OWNER Emil & Kathleen Bologa et al. LEASE ACREAGE _____
 LEASE NO. _____

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 Big Injun ESTIMATED DEPTH 1,800'
 WELL OPERATOR Triad Resources, Inc. DESIGNATED AGENT Kimberly Arnold
 ADDRESS P.O. Box 430 ADDRESS P.O. Box 154
Reno, OH 45773 Waverly, WV 26184

PLC 0760 F

5/9/79 R



LATITUDE 39° 27' 30" (15') 39° 30' 30" ← 8000 →

LONGITUDE 81° 00' 00" 81° 00' 00"

OWNERSHIP

No Coal
 Surface is owned by Emil Baloga
 Route 1, Box 147-1, Friendly, W. Va
 Oil & Gas :- A.P. Allen Hrs.

LEGEND

- Plotted from deed coils
- Surveyed Lines
- - - Roads
- * Existing Oil & Gas Wells
- o Well Locations

Minimum Error of Closure 1 in 200'

Source of Elevation USGS elev. at the top of knob (shown = 850')

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

Signed: [Signature]
 Squares: N S E W

Map No. _____

Company - Energy Capital Development Co.
 P.O. Box 56 - Reno, Ohio 45773

Address - Surface: Emil Balogna 1014

Farm - A.P. Allen Heirs

Tract - _____ Acres 220 Lease No. _____

Well (Farm) No. Three Serial No. _____

Elevation (Spirit Level) 670

Quadrangle Bens Run 7 1/2' St. MARYS 15' N 63

County Pleasants District Union 5

Engineer [Signature]

Engineer's Registration No. 1227

File No. _____ Drawing No. _____

Date April 23, 1979 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. 47-073-0760-Frac.

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000' latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

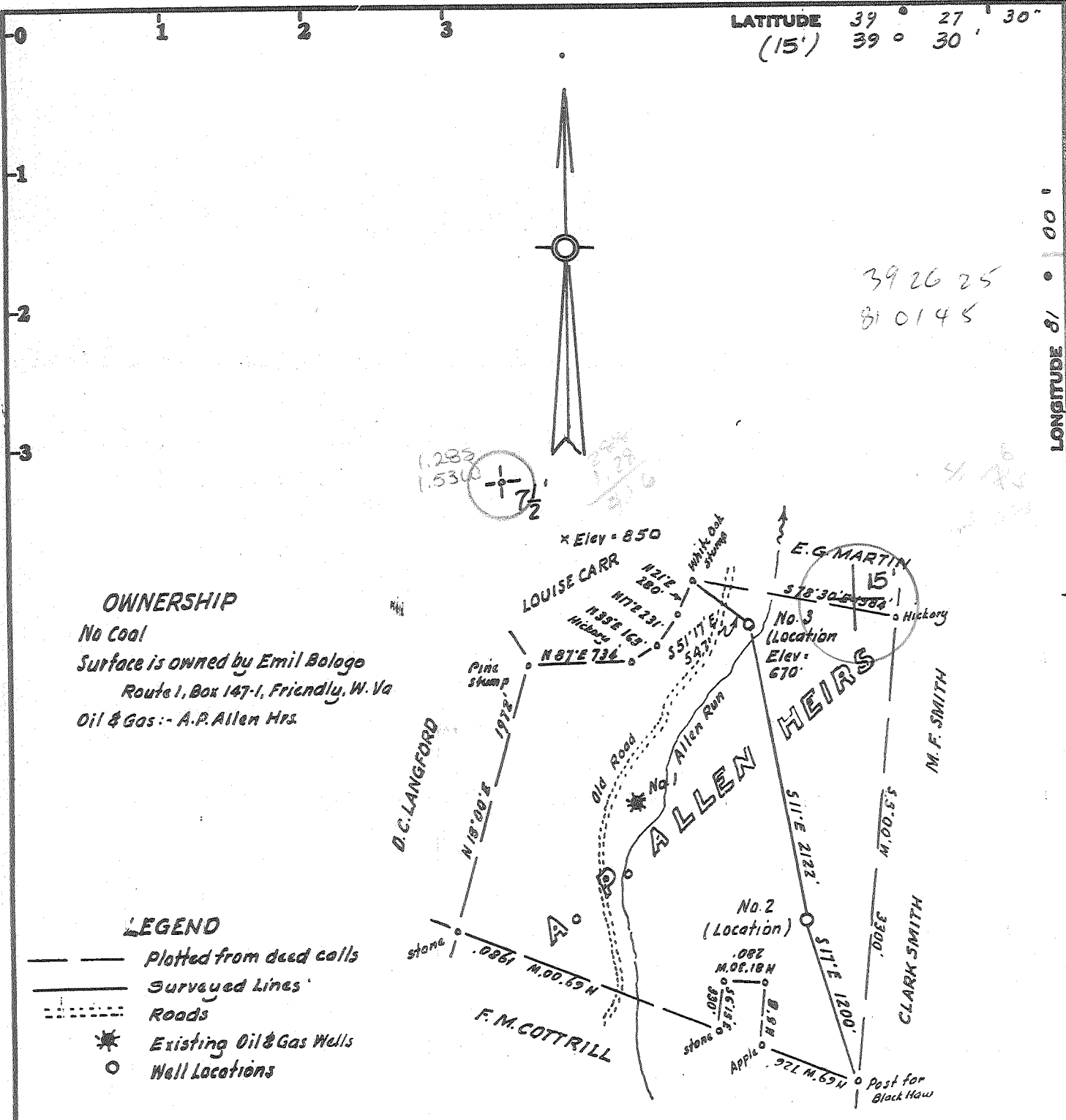
DEC 15 1980

OWWD 6-6 Shiloh-wick (86) 3200 Jordan

LATITUDE 39° 27' 30" (15') 39° 30'

LONGITUDE 81° 00'

39 26 25
81 01 45



OWNERSHIP
 No Coal
 Surface is owned by Emil Bolago
 Route 1, Box 147-1, Friendly, W. Va
 Oil & Gas :- A.P. Allen Hrs.

- LEGEND**
- Plotted from deed calls
 - Surveyed Lines
 - - - Roads
 - * Existing Oil & Gas Wells
 - o Well Locations

Minimum Error of Closure 1 in 200'
 Source of Elevation USGS elev. at the top of knob (shown) = 850'

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Map No.

Company LAUDERMAN OIL & GAS CO. DRILLING
 Address P.O. Box 266, Paden City, West Va.
 Farm A.P. Allen Heirs
 Tract _____ Acres 220 Lease No. _____
 Well (Farm) No. Three Serial No. _____
 Elevation (Spirit Level) 670 NE
 Quadrangle Bens Run 7 1/2' ST. MARYS 15'
 County Pleasants District Union
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date April 23, 1979 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. 47-073-0760

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

br 19

Well Operator's Report of Well Work

Farm name: A.P. ALLEN Operator Well No.: 3

LOCATION: Elevation: 670' Quadrangle: BENS RUN

District: UNION County: PLEASANTS
Latitude: 7,450 Feet South of 39 Deg. 27 Min. 30 Sec.
Longitude 8,350 Feet West of 81 Deg. 00 Min. 00 Sec.

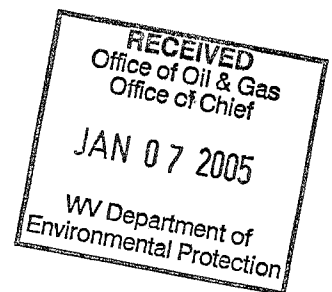
Company: TRIAD RESOURCES, INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. BOX 430</u> <u>RENO, OHIO 45773</u>				
Agent: <u>KIMBERLY ARNOLD</u>	<u>8 5/8"</u>	<u>271'</u>	<u>271'</u>	<u>C.T.S.</u>
Inspector: <u>LARRY PARRISH</u>				
Date Permit Issued: <u>3/29/04</u>	<u>4 1/2"</u>	<u>2735'</u>	<u>2735'</u>	<u>T.O.C @</u>
Date Well Work Commenced: <u>6/10/04</u>				<u>1148' (BOND LOG)</u>
Date Well Work Completed: <u>7/13/04</u>				
Verbal Plugging:	<u>2"</u>		<u>1650'</u>	
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Depth (feet): <u>1800'</u>				
Fresh Water Depth (ft.): <u>NA</u>				
Salt Water Depth (ft.): <u>NA</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>NA</u>				

OPEN FLOW DATA

Producing formation Big INJUN Pay zone depth (ft) 1578'-1603'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 15 MCF/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 325 psig (surface pressure) after 96 Hours

Second producing formation _____ Pay zone depth (ft) _____
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 pressure) after _____ Hours



NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Rocky Roberts
By: ROCKY ROBERTS
Date: 1/4/05

PLE 0760 F

PERFORATIONS :

BIG INJUN SAND	1578' - 1586'	32 SHOTS	0.39" HSC
	1588' - 1592'	16 SHOTS	0.39" HSC
	1597' - 1603'	24 SHOTS	0.39" HSC

BRIDGE PLUG WAS SET AT 1800'.

FRACTURE TREATMENT

2500 GALLONS 15% HCl
557 BARRELS TREATED FRESH WATER
25,000 POUNDS 20/40 SAND
307,000 SCF NITROGEN

BREAKDOWN PRESSURE:	1608 PSIG
AVG. TREATING PRESSURE:	2151 PSIG
AVG. RATE:	15 BPM
ISIP:	1550 PSIG
5-MIN SIP:	1472 PSIG



IV-35
(Rev 8-81)

Date 3-10-88
Operator's
Well No. # 3
Farm A.P. ALLEN
API No. 47-073-0760 F

RECEIVED
MAR 18 1988

State of West Virginia
Department of Mines
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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 X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 670' Watershed Allen Run of Middle Island Creek
District: Union County Pleasants Quadrangle Bens Run

COMPANY Energy Capital Development Corp.
ADDRESS 526 Dime Bank, Marietta, Ohio
DESIGNATED AGENT Dave Somerville
ADDRESS Rt 1 Box 104, Elizabeth, W.Va. 26143
SURFACE OWNER Emil Bologna
ADDRESS Friendly, W.Va.
MINERAL RIGHTS OWNER A.P. Allen Heirs
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther ADDRESS Middlebourne, W.Va.
PERMIT ISSUED Dec 8, 1986
DRILLING COMMENCED Dec. 14, 1986
DRILLING COMPLETED Dec. 15, 1986
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

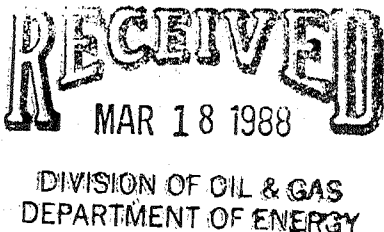
Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	271	271	
7			
5 1/2			
4 1/2			2735
3			
2	2705		2705
Liners used			

GEOLOGICAL TARGET FORMATION Weir Depth 2735 feet
Depth of completed well 2735 feet Rotary / Cable Tools
Water strata depth: Fresh 70-80 feet; Salt 1585 feet
Coal seam depths: None Is coal being mined in the area?

OPEN FLOW DATA
Producing formation Weir Pay zone depth 2489 - 2499 feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d
Final open flow (500) Mcf/d Final open flow (1) Bbl/d
Time of open flow between initial and final tests 48 hours
Static rock pressure 1860 psig (surface measurement) after 4 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

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Soil	—	—	0	20	
Shale	Red	Soft	20	55	
Gray	lime	"	55	65	
Slate	—	"	65	120	
Black	shale	"	120	180	
Gray	lime	"	180	250	
Sand	white	"	250	305	
Slate	—	"	305	375	
Gray	lime	"	375	425	
Red Rock	—	"	425	530	
Sandy Shale	—	"	530	600	
Slate	—	"	600	695	
lime	gray	"	695	780	
Rock	Red		780	855	
White	Sand		855	865	
Rock	Red		865	875	
	lime		875	895	
Rock	Red		895	905	
Sand			905	915	
Slate			915	925	
Rock	Red		925	935	

(Attach separate sheets as necessary)

Energy Capital Development Corp
Well Operator

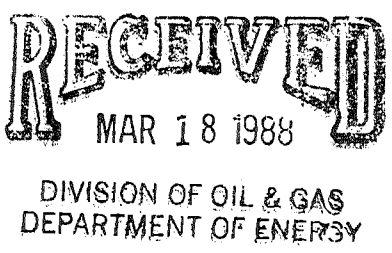
By: Debra Wilson

Date: 3-10-88

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."

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Slate	Red		935	945	
Rock	Red		945	955	
Slate	Black		955	965	
Rock	red				
Sand I	Salt		1000	1050	
Sand	white		1050	1160	
Shale	Black		1160	1200	
Sand II	Salt		1200	1260	
Slate	gray		1280	1280	
Shale	Black		1280	1305	
Sand			1305	1335	
Mason Sand			1335	1375	
Big lime			1375	1390	
Keener sand			1390	1415	
Big Tongue			1415	1460	
Slate White			1460	1500	
Shell			1500	1540	
Black Slate			1540	1600	
Brown Slate			1600	1630	
Shell			1630	1660	
Shell lime			1660	1680	
Shell gray			1680	1700	
Slate Black			1700	1750	
Shell lime			1750	1885	
Rock Red			1885	1875	
			1875	1895	
			1895	1920	

(Attach separate sheets as necessary) ^{over}

Energy Capital Development Corp.
Well Operator

By: Delra Wilson


Date: 3-10-88

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."

MAR 25 1988

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

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Shell	Gray		1920	1985	 MAR 18 1988 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY
Shell	Sand		1985	2008	
Sand			2065	2020	
Shell	gray		2020	2088	
Rock	Red		2088	2180	
Shell	Blue		2180	2300	
Shell	gray		2300	2370	
Sands			2318	2335	
Sand			2335	2345	
Shell	gray		2345	2390	
Shell	Dk. Brown		2390	2430	
Shell	gray		2430	2485	
Sand			2485	2495	
Sand	gordon		2495	2500	
Gray	shell		2500	2520	
lime	shell		2520	2690	
Dk. Brown	shell		2690	2700	
Sandy	Shell		2700	2735	

(Attach separate sheets as necessary)

Energy Capital Development Corp
Well Operator

By: Delra Wilson

Date: 3-10-88

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

RECEIVED

OCT 30 1979

Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Rotary Oil
Cable Gas
Recycling Comb.
Water Flood Storage
Disposal Open Pit (Kind)

Quadrangle 7-1
Permit No. 073-0760 (Corrected Permit Number)

Company <u>Lauderman Oil & Gas Drilling</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>311 South 4th Ave. Paden City, W.V.</u>				
Farm <u>A.P. Allen</u> Acres <u>220</u>	Size			
Location (waters) <u>Allen Run</u>	20-16			
Well No. <u>3</u> Elev. <u>670</u>	Cond.			
District <u>Union</u> County <u>Pleasants</u>	13-10"			
The surface of tract is owned in fee by <u>Elmo Bologna</u>	9 5/8			
Address _____	8 5/8			
Mineral rights are owned by <u>A.P. Allen heirs</u>	7			
Address _____	5 1/2			
Drilling Commenced <u>7-15-70</u>	4 1/2		2735	
Drilling Completed <u>7-23-70</u>	3			
Initial open flow <u>Show</u> cu. ft. <u>Show</u> bbls.	2			
Final production <u>1.3MMSCF</u> cu. ft. per day <u>10</u> bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				

Well treatment details: Attach copy of cementing record.
Well treated with Keil Frac- 18000 BBLs water 62,000 #Sand
20/40/ Mesh.

Coal was encountered at No Coal Feet _____ Inches _____
Fresh water 70 Feet 80 Salt Water 1585 Feet _____
Producing Sand Gordon Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	--	----	0	20		
Shale	Red	Soft	20	55		
Gray	Lime	Soft	55	65		
Slate	--	Soft	65	120		
Black	Shale	Soft	120	180		
Gray	Lime	Soft	180	250		
Sand	White	Soft	250	305		
Slate	--	Soft	305	375		
Gray	Lime	Soft	375	425		
Red Rock	----	Soft	425	530		
Sandy Shed	-	Soft	530	600		

(over)

* Indicates Electric Log tops in the remarks section.

MAR 10 1980

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Slate	---	Soft	600	695	Slate White	1540 1600
Lime	Gray	Soft	695	730	Shell	1600 1630
Rock	Red		730	855	Black Slate	1630 1660
White	Sand		855	865	Brown Slate	1660 1690
Rock	Red		865	875	Shell	1690 1700
	Lime		875	895	Shell Lime	1700 1750
					Shell Gray	1750 1835
Rock	Red		895	905	Slate Black	1845 1875
Sand			905	915	Shell Lime	1875 1895
Slate			915	925	Rock Red	1855 1920
Rock	Red		925	935	Shell Gray	1920 1935
Slate	Black		935	945	Shell Sand	1935 2008
Rock	Red		945	955	Sand	2065 2020
Slate	Blue		955	965	Shell Gray	2020 2088
Sand I	Salt		1000	1050	Rock Red	2075 2180
Sand	White		1050	1160	Shell Blue	2180 2300
					Shell Gray	2300 2318
Shale	Black		1160	1200	Sands	2315 2335
					sand	2335 2345
Sand II	Salt		1260	1260	Shell Gray	2395 2390
Slate	Gray		1280	1305	Shell Dk	2390 2430
					brown	
Slate	Black		1305	1335	Shell Gray	2430 2485
Shell			1335	1375	Sand	2485 2495
Sand			1375	1390	Sand Gordon	2495 2520
Maxon Sand			1390	1415	Gray shell	2500 2520
Big Line			1415	1460	Lime shell	2520 2690
Keenfr sand			1460	1500	Dk. Brown Shell	2690 2700
Big Injun Sand			1500	1540	Sandy Shell	2700 2735

Date 16-75-79 19

APPROVED Sheldon J. Morgan DISTRICT

By Carl
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

OCT 30 1979

Oil and Gas Division
WELL RECORD 17

OIL & GAS DIVISION
DEPT. OF MINES
Rotary _____ Oil _____
Cable _____ Gas
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ Open Pit
(Kind)

Quadrangle 7-1

Permit No. ~~70762~~ 760

Company Lauderman Oil & Gas Drilling
Address 311 South 4th Ave. Paden City, W.V.
Farm A.P. Allen Acres 220
Location (waters) Allen Run
Well No. 3 Elev. 670
District Union County Pleasants
The surface of tract is owned in fee by Elmo Bologna
Address _____
Mineral rights are owned by A.P. Allen Heirs
Address _____
Drilling Commenced 7-15-79
Drilling Completed 7-23-79
Initial open flow Show cu. ft. Show bbls.
Final production 1.3MM cu. ft. per day 10 bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2		2735	
3			
2		2705	
Liners Used			

Well treatment details:

Attach copy of cementing record.

Well treated with Keil Frac - 18000 BBLs water 62,000 #Sand
20/40/ Mesh

Coal was encountered at No Coal Feet _____ Inches _____
Fresh water 70 Feet 80 Salt Water 1585 Feet _____
Producing Sand Gordon Depth 2520

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Soil	--	----	0	20		
Shale	Red	Soft	20	55		
Gray	Lime	Soft	55	65		
Slate	--	Soft	65	120		
Black	Shale	Soft	120	180		
Gray	Lime	Soft	180	250		
Sand	White	Soft	250	305		
Slate	--	Soft	305	375		
Gray	Lime	Soft	375	425		
Reo Rock	---	Soft	425	530		
Sandy Shed	-	Soft	530	600		

(over)

* Indicates Electric Log tops in the remarks section.

NOV 14 1979

Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Slate	---	Soft	600	695	Slate White	1540 1600
Lime	Gray	Soft	695	780	Shell	1600 1630
Rock	Red		780	855	Black Slate	1630 1660
White	Sand		855	865	Brown Slate	1660 1680
Rock	Red		865	875	Shell	1680 1700
	Lime		875	895	Shell Lime	1700 1750
Rock	Red		895	905	Shell Gray	1750 1835
Sand			905	915	Slate Black	1845 1875
Slate			915	925	Shell Lime	1875 1905
Rock	Red		925	935	Rock Red	1855 1920
Slate	Black		935	945	Shell Gray	1920 1985
Rock	Red		945	955	Shell Sand	1985 2008
Slate	Blue		955	965	Sand	2065 2020
Sand I	Salt		1000	1050	Shell Gray	2020 2088
Sand	White		1050	1160	Rock Red	2075 2180
Shale	Black		1160	1200	Shell Blue	2180 2300
					Shell Gray	2300 2318
					Sands	2315 2335
					sand	2335 2345
Sand II	Salt		1260	1260	Shell Gray	2395 2390
Slate	Gray		1280	1305	Shell Dk	2390 2430
					brown	
Slate	Black		1305	1335	Shell Gray	2430 2485
Shell			1335	1375	Sand	2485 2495
Sand			1375	1390	Sand Gordon	2495 2520
Maxon Sand			1390	1415	Gray shell	2500 2520
Big Line			1415	1460	Lime shell	2520 2690
Keener sand			1460	1500	Dk. Brown Shell	2690 2700
Big Injun Sand			1500	1540	Sandy Shell	2700 2735

Date 10-25-79

APPROVED Shelley J. Morgan

By [Signature]
(Title)

Formation	Color	Hard or Soft	Top Feet /	Bottom Feet	Oil, Gas or Water	* Remarks
Slate	---	Soft	600	695	Slate White	1540 1500
Lime	Gray	Soft	695	780	Shell	1600 1630
Rock	Red		780	855	Black Slate	1630 1660
White	Sand		855	865	Brown Slate	1660 1680
Rock	Red		865	875	Shell	1680 1700
	Lime		875	895	Shell Lime	1700 1750
Rock	Red		895	905	Shell Gray	1750 1835
Sand			905	915	Slate Black	1845 1875
Slate			915	925	Shell Lime	1875 1895
Rock	Red		925	935	Rock Red	1855 1920
Slate	Black		935	945	Shell Gray	1920 1985
Rock	Red		945	955	Shell Sand	1985 2008
Slate	Blue		955	965	Sand	2065 2020
Sand I	Salt		1000	1050	Shell Gray	2020 2088
Sand	White		1050	1160	Rock Red	2075 2180
Shale	Black		1160	1200	Shell Blue	2180 2300
					Shell Gray	2300 2318
					Sands	2315 2335
					sand	2335 2345
Sand II	Salt		1260	1260	Shell Gray	2395 2390
Slate	Gray		1280	1305	Shell Dk	2390 2430
					brown	
Slate	Black		1305	1335	Shell Gray	2430 2485
Shell			1335	1375	Sand	2485 2495
Sand			1375	1390	Sand Gordon	2495 2520
Maxon Sand			1390	1415	Gray shell	2500 2520
Big Line			1415	1460	Lime shell	2520 2690
Keener sand			1460	1500	Dk. Brown Shell	2690 2700
Big Injun Sand			1500	1540	Sandy Shell	2700 2735

Date 10-25-79

APPROVED Shelly J. Morgan

By [Signature]
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Handwritten initials

MAY - 9 - 1979

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION
DEPT. OF MINES

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

DATE May 3, 1979

Surface Owner A.P. Allen Heirs
Address 101 37th St. Vienna, W. Va.
Mineral Owner A.P. Allen Heirs
Address 101 37th St. Vienna, W. Va.
Coal Owner No coal--Pleasants County
Address left out of coal
Coal Operator _____
Address _____

Company Lauderman Oil & Gas Drilling
Address P.O. Box 266, Paden City, W. Va.
Farm A.P. Allen Acres 220
Location (waters) Middle Island Creek
Well No. Three Elevation 778
District Union County Pleasants
Quadrangle Bens Run 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

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 1-23-80.

INSPECTOR Mr. Phillip Tracy
TO BE NO 173 Dodd St.
Middlebourne, WV 26149
ADDRESS Ph: 758-4573
PHONE _____

Signature of Phillip Tracy
Phillip Tracy
Leadry 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 February 6, 1925 by A.P. Allen & M.L. Allen made to P.H. Gaffney and recorded on the 6th day of February 1925 Pleasants County, Book 24 Page 263

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 4th 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, LAUDERMAN OIL & GAS DRILLING
(Sign Name) *Phillip Morgan*
WV Operator
Address 311 South 4th Avenue
Street
of Paden City
Well Operator City or Town
West Virginia 26159
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

47-073-0760 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 _____

Handwritten signature

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

PROPOSED WORK ORDER TO DRILL _____ DEEPEN _____ FRACTURE STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Johnson Drilling NAME Ernest Herbold
 ADDRESS Rt. 6 Smith Dr., Marietta, Ohio ADDRESS P.O. Box 266 Paden City, W.Va.
 TELEPHONE 614-373-0877 45750 TELEPHONE (304) 657-2701
 ESTIMATED DEPTH OF COMPLETED WELL: 3200 ROTARY ** CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION Gordon & Ohio Shales
 TYPE OF WELL: OIL _____ GAS _____ COMB. 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	900'	3 5/8	
8 - 5/8			
7			
5 1/2	4 1/2 Cemented thru payzone		
4 1/2			
3			Perf. Top
2			Perf. Bottom
1 1/2			Perf. Top
1			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60 FEET SALT WATER 1700 FEET
 APPROXIMATE COAL DEPTHS 420 (No coal in Pleasants County-left out)
 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 23 of the West Virginia Code.

 For Coal Company

 Official Title

RECEIVED
DEC 04 1986



1) Date: NOVEMBER 15, 1986
 2) Operator's Well No. A.P. ALLEN #3
 3) API Well No. 47 073 0760 -F
 State County Permit

STATE OF WEST VIRGINIA
 DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 670 Watershed: ALLEN RUN OF MIDDLE ISLAND CREEK
 District: UNION County: PLEASANTS Quadrangle: BEN'S RUN
- 6) WELL OPERATOR ENERGY CAPITAL DEVELOPMENT CODE: 15795 DESIGNATED AGENT DAVID SOMEVILLE
 Address P.O. BOX 56 Address RE. 1, BOX 104
RENO, OHIO 45773 ELIZABETH, WV 26143
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name ROBERT LOWTHER
 Address GENERAL DELIVERY
MIDDLEBOURNE, WV 26149
- 9) DRILLING CONTRACTOR: Name _____ Address _____
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, WEIR 387
 12) Estimated depth of completed well, 2735 feet
 13) Approximate strata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No
- 15) CASING AND TUBING PROGRAM

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		Kinds	
Conductor									Kinds	
Fresh water									Kinds	
Coal									Sizes	
Intermediate									Kinds	
Production									Depths set	
Tubing									Depths set	
Liners									Perforations:	
									Top	Bottom

See Existing Well Record
Log must be run to determine cement tops
No perforations above cement tops

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-073-0760-F Date December 8 19 86

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires December 8, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>AKB</u>	Agent: <input checked="" type="checkbox"/> <u>WV</u>	Plat: <u>KS</u>	Casing: <u>AKB</u>	Fee: <u>345-157</u>	WPCP: <u>NO PIT</u>	S&S: <u>187</u>	Other: _____
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NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.