

LATITUDE(NAD'83) 39°20'00" TOP HOLE

10,426'

LATITUDE(NAD'83) 39°20'00" BOTTOM HOLE

3257'

NAD'83 GRID NORTH

LONGITUDE (NAD'83) 79°52'30" (BOTTOM HOLE)

LONGITUDE (NAD'83) 79°50'00" (TOP HOLE)

PRESTON COUNTY			
DESIGNATOR	TM-PAR	SURFACE OWNER	SURFACE ACREAGE
A	22-11	MARCHETTA HUFFMAN	47.50±
B	22-8	L. DARWIN & KAREN WOLFE	62.35±
C		STATE OF WV (D/O MORGANTOWN BEVERLY TURNPIRE & W.V. RT 92)	14.42±
D	22-7	DARWIN & KAREN WOLFE	1.05±
E	22-5	TERRY & BETTY HAMILTON	57.18±
F	22-4	DAVID A & CRISTINA L CLARKSON ROBERT F. CLARKSON (LIFE)	167.63±
G	15-15	TERRY & BETTY HAMILTON	40.20±
H	15-17	ROBERTA A. KNOTTS	98.00±
I	15-21	JOHN B & LORETTA J CLARKSON	71.50±
J	15-12	ROBERTA AUSTIN	80.10±
K	15-12.1	ROBERTA KNOTTS	3±
L	15-11	ROBERTA KNOTTS	9.97±
M	15-9	JOHN B & LORETTA J CLARKSON	172.00±

DARWIN 213 WELL TIES		
LINE	BEARING	DISTANCE
L1	N 89° 17' W	652.08
L2	S 82° 47' W	1766.09
L3	S 07° 52' W	703.93
L4	N 24° 08' W	636.61

DARWIN NORTH LAYOUT



LEGEND

- PROPOSED WELL: (Symbol)
- EXISTING WELL: (Symbol)
- PERMITTED WELL: (Symbol)
- COUNTY ROUTE: (Symbol)
- STATE ROUTE: (Symbol)
- LEASE LINE: (Symbol)
- SURFACE LINE: (Symbol)
- WELL LATERAL: (Symbol)
- OFFSET LINE: (Symbol)
- TIE LINE: (Symbol)
- CREEK: (Symbol)
- ROAD: (Symbol)
- FENCE LINE: (Symbol)

ARSENAL RESOURCES DARWIN 213

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT)	N. 289,956.95	E. 1,863,736.31
NAD'83 GEO.	LAT-(N) 39.295495	LONG-(W) 79.870172
NAD'83 UTM (M)	N. 4,350,177.23	E. 597,426.80

LANDING POINT

NAD'83 S.P.C.(FT)	N. 289,841.10	E. 1,863,381.30
NAD'83 GEO.	LAT-(N) 39.295173	LONG-(W) 79.871432
NAD'83 UTM (M)	N. 4,350,140.13	E. 597,318.61

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 299,312.90	E. 1,859,153.70
NAD'83 GEO.	LAT-(N) 39.321129	LONG-(W) 79.886514
NAD'83 UTM (M)	N. 4,353,004.64	E. 595,982.57

Notes on Survey

1. No water wells were found within 250' of proposed gas well. No agricultural buildings less than or equal to 2500 sq. ft. or dwellings were found within 625' of the center of proposed well pad.



REFERENCES



SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 17 Vannom Drive • Glenville, WV 26031 • (304) 862-5624
www.slsurveys.com



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE AUGUST 11, 20 17

REVISED _____, 20 _____

OPERATORS WELL NO. DARWIN 213

API WELL NO. 47 - 077 - 00638

STATE _____ COUNTY _____ PERMIT _____

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. C. Victor Moyers
849 _____

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8499P213.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION EXISTING: 1,440.4' / PROPOSED: 1,440.2' WATERSHED SANDY CREEK

DISTRICT RENO COUNTY PRESTON QUADRANGLE FELLOWSVILLE 7.5'

SURFACE OWNER MARCHETTA HUFFMAN ACREAGE 47.50±

ROYALTY OWNER MARCHETTA HUFFMAN ACREAGE 47.50± LEASE NO. 00001865

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION HUNTERSVILLE CHERT (PILOT)

ESTIMATED DEPTH 18,543' TMD / 7,692' TVD (LATERAL) 7805' TVD. PILOT

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL

ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 65 PROFESSIONAL PLACE

WEXFORD, PA 15090 BRIDGEPORT, WV 26330

**ARSENAL RESOURCES
DARWIN 213**



OWNERSHIP FOR SURFACE TRACTS AND ADJOINERS

Dist Name	Dist	Map	Parcel	SURFACE OWNER	Book	Page	Acreage
HARBOUR COUNTY							
COVE	3	3	1	LINDLEY MARY E	347	121	31.84
COVE	3	3	1.1	WV DEPT OF HIGHWAYS	374	158	0.06
COVE	3	3	2	MATLICK HARRIETT HRS C/O RAMONA SCARTON	WB 4	554	5.00
COVE	3	3	4	SIGLEY RALPH D & GLENDA J	315	8	103.00
COVE	3	4	36.1	BERRY JOSEPH B & CATHY W	421	132	2.96
COVE	3	4	36.2	PHILLIPS FOREST C & PEGGY S	360	37	3.40
COVE	3	4	36.3	PHILLIPS FOREST C & PEGGY	298	260	3.84
COVE	3	4	36.4	PHILLIPS FOREST C & PEGGY S (H)	298	30	0.24
COVE	3	4	36.5	PHILLIPS DONALD & PATRICIA	449	257	2.11
COVE	3	4	38	HAMILTON TERRY	203	292	18.10
PRESTON COUNTY							
RENO	4	9	12	CLARKSON JOHN B & LORETTA J	474	339	122.75
RENO	4	9	12.1	RIDDLE KENNETH & DEBRA	656	685	16.00
RENO	4	9	13	CLARKSON JOHN B & LORETTA J	362	428	5.00
RENO	4	9	14.2	CRAGE WILLIAM W & MILDRED	404	251	120.00
RENO	4	9	16	HUBBARDMAN FAMILY IRREVOCABLE TRUST	753	523	110.84
RENO	4	15	1	CLARKSON ROBERT F	592	234	82.70
RENO	4	15	2	CLARKSON JOHN B & LORETTA J	572	169	41.66
RENO	4	15	3	WAGNER WAYNE R & GLOMA	395	127	64.66
RENO	4	15	5	CLARKSON FAMILY IRREVOCABLE TRUST	W75	580	59.92
RENO	4	15	6	CLARKSON JOHN B & LORETTA J	W47	190	172.00
RENO	4	15	7	WAGNER WAYNE R & GLOMA F	571	211	42.34
RENO	4	15	7.1	SUMMERS THOMAS B & STACI S	746	239	2.053
RENO	4	15	8	CLIFFER GLENN W & CAROLYN S	759	118	145.59
RENO	4	15	9	HALL MARK A HEIRS	W55	558	5.00
RENO	4	15	9.1	RIVELY DAVID L CHOB-RIVELY ENSUG	625	1018	95.75
RENO	4	15	9.3	PHILLIPS RICHARD A & TAMMY L	583	699	1.15
RENO	4	15	9.4	HALL MARK A HEIRS	W55	558	13.14
RENO	4	15	9.5	HALL MARK A HEIRS	W55	558	3.46
RENO	4	15	10	DENNISON W H HRS, ET AL	F26	227	0.25
RENO	4	15	11	KNOTT'S ROBERTA A	744	32	9.87
RENO	4	15	12	AUSTIN ROBERTA	570	903	80.10
RENO	4	15	12.1	KNOTT'S ROBERTA A	744	32	3.00
RENO	4	15	14	RUNNER HARRISON HRS	F22	16	13.25
RENO	4	15	16	RIVELY DAVID L CHOB-RIVELY ENSUG	625	1018	47.75
RENO	4	15	17	KNOTT'S ROBERTA A	744	32	98.00
RENO	4	15	18	HAMILTON TERRY & BETTY	476	144	40.20
RENO	4	15	19	MYERS EDWARD C & DOROTHY J	530	580	1.50
RENO	4	15	20	CLARKSON JOHN B & LORETTA J	368	459	41.25
RENO	4	15	21	CLARKSON JOHN B & LORETTA J	395	770	71.50
RENO	4	15	22.1	CLARKSON JOHN B & LORETTA J	459	17	1.23
RENO	4	15	23	HAMILTON FAMILY TRUST	724	189	34.00
RENO	4	16	33	HAMILTON TERRY D & BETTY	355	543	32.24
RENO	4	22	1	RIVELY DAVID L CHOB-RIVELY ENSUG	625	1018	47
RENO	4	22	2	POLING FRED B & JUDITH A	702	647	90.19
RENO	4	22	2.1	POLING ROBERT L & HOLLIS R	705	548	2.00
RENO	4	22	3	HAMILTON TERRY & BETTY	416	566	25.00
RENO	4	22	4	CLARKSON DAVID A & CHRISTINA L CLARKSON ROBERT F-LIFE	772	808	167.635
RENO	4	22	5	HAMILTON TERRY D & BETTY	371	544	57.43
RENO	4	22	6	SCHOOLLEY LAWSON L	W38	237	51.04
RENO	4	22	7	WOLFE L DARWIN & KAREN	406	684	1.05
RENO	4	22	7.1	NEPTUNE ANDREW & EVAN NEPTUNE TERESA-LIFE	W74	919	0.75
RENO	4	22	8	WOLFE L DARWIN & KAREN	406	684	67.553
RENO	4	22	8.1	NEPTUNE ANDREW & EVAN NEPTUNE TERESA-LIFE	W74	919	2.00
RENO	4	22	8.2	WOLFE LORN A & SHANNON L S	730	172	5.257
RENO	4	22	9	BOLYARD STEVEN B & BECKY J	687	350	83.00
RENO	4	22	10	HUFFMAN MARGHERITA	424	617	130.25
RENO	4	22	11	HUFFMAN MARGHERITA	424	617	47.50
RENO	4	22	12	HAMILTON BRIAN M	660	465	3.765
RENO	4	22	13	HAMILTON FAMILY TRUST	724	189	24.75
RENO	4	23	1	HAMILTON TERRY D & BETTY	W68	644	95.066
RENO	4	23	1.2	HAMILTON KATH L & DEBORAH A	649	251	4.93
RENO	4	23	22	BOLYARD WILLARD H	W70	405	65.82
RENO	4	23	23	BOLYARD WILLARD H	W70	405	17.00
TAYLOR COUNTY							
PETTERMAN	6	24	22	RIDDLE KENNETH & DEBRA	282	90	15.85
KNOTTSVILLE	7	4	13	CLARKSON ROBERT F	242	260	59.223
KNOTTSVILLE	7	11	4.17	BOLYARD CARROLL L	279	344	23.15
KNOTTSVILLE	7	11	5.9	CHEIK ISMAIL	279	347	38.65

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STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 01/12/2018

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL
 ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 65 PROFESSIONAL PLACE
 WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT