

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-095-02087 County Tyler District Ellsworth  
Quad Paden City Pad Name Stewart / Winland Pad Field/Pool Name Middlebourne  
Farm name Stewart; James L. & Martha Well Number Stewart / Winland # 1303 MH  
Operator (as registered with the OOG) Triad Hunter, LLC  
Address 777 Post Oak Blvd. Suite 910 City Houston State Texas Zip 77056

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4373301.5 Easting 505130.4  
Landing Point of Curve Northing 4373700.1 Easting 505674.3  
Bottom Hole Northing 4375352 Easting 505047.1

Elevation (ft) 906' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
Synthetic Base Mud; HT Light Mineral Oil, Synvert TWA & LWA - thinner and wetting agents, Synvert L-1  
primary emulsifier, and Cimbar - weighting and filler material

Date permit issued 3/26/2013 Date drilling commenced 2/25/2014 Date drilling ceased 3/20/2014  
Date completion activities began 7/29/2014 Date completion activities ceased 8/27/2014  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft surface - 250' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft @ 1,000' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,100' - 1,400' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:  
SK 6/25/15  
WS 7/01/15

API 47-095 - 02087 Farm name Stewart; James L. & Martha Well number Stewart / Winland # 1303 MH

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24"	20"	100'	New	J-55 94 lb.	none	yes
Surface	17 1/2"	13 3/8"	490'	New	H-40 48 lb.	none	yes - Trace cement returns
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,840'	New	J-55 36 lb.	5 - 1 every 12 jts.	yes - circ. 4 bbls.
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	13,045'	New	P-110 20 lb.	none	yes - circ. 80 bbls.
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Socks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	122	15.6	1.18	144	surface	Days
Surface	Class A (Halccem)	370	15.6	1.22	451	surface	8 - 12
Coal							
Intermediate 1	Varicem & Halccem	380 / 430	13.1 & 15.6	1.75 & 1.19	1,177	surface	12
Intermediate 2							
Intermediate 3							
Production	Varicem / Fraccem	1040 / 900	13.6 / 15.2	1.51 / 2.42	3748	surface	Days
Tubing							

Drillers TD (ft) TMD = 13,045' TVD = 6,149' Loggers TD (ft) \*\* No Open Hole Logs \*\*  
 Deepest formation penetrated Marcellus Shale Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) @ 3,350'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_  
20" (2)  
13 3/8" (2) - 2nd and 9th joints  
9 5/8" (7) - 1 every 10th joint  
5 1/2" (74) - 63 spiral centralizers from Toe to KOP ( every 3rd j. ), and 11 bow centralizers from KOP to 250' ( every 10th j. )

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS DE: 1/1/2014

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

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**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	SPREAD	SHEET		

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (DPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		SEE	SPREAD	SHEET				

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API # 47-095-02087

Farm name Stewart; James L. & Martha

Well number Stewart / Winland # 1303 MH

PRODUCING FORMATION(S)	DEPTHS			
		TVD		MD
Marcellus Shale	6,149'		13,045'	

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Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE: Surface 3,000 psi Bottom Hole 5,534 psi DURATION OF TEST 360 hrs

OPEN FLOW Gas 10,300 mcfpd Oil 240 bpd NGL          bpd Water 600 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		** No Open Hole Logs **
					Pilot Hole: Stewart / Winland # 1303 UH ( P # 47-095-02128 )
Stewart / Winland # 1303 MH					
Tully	6,116'	6,121'	7,013'	7,032'	Limestone
Marcellus	6,121'	Not Drilled	7,032'	13,045'	Organic Shale ( Show Gas )

Please insert additional pages as applicable.

Drilling Contractor Alpha Hunter Drilling

Address 28407 St. Rt. 7 City Marietta State Oh. Zip 45750

Logging Company Wildcat Wireline, LLC

Address 8583 Georgetown Road, Unit A City Cambridge State Oh. Zip 43725

Cementing Company Halliburton Energy Services

Address 4999 East Point Drive City Zanesville State Oh. Zip 43702

Stimulating Company Producers Service Corporation

Address 109 S. Graham Street City Zanesville State Oh. Zip 43701

Please insert additional pages as applicable.

Completed by Ben Smeltzer

Telephone (740) 760-0570

Signature Ben Smeltzer Title Geologist

Date 12/5/2014

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Registry

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Stewart Winland      1303      ( # 47-095-02087 )      Tyler County, WV      Civil Township: Ellsworth

**CHEMICAL SUMMARY**

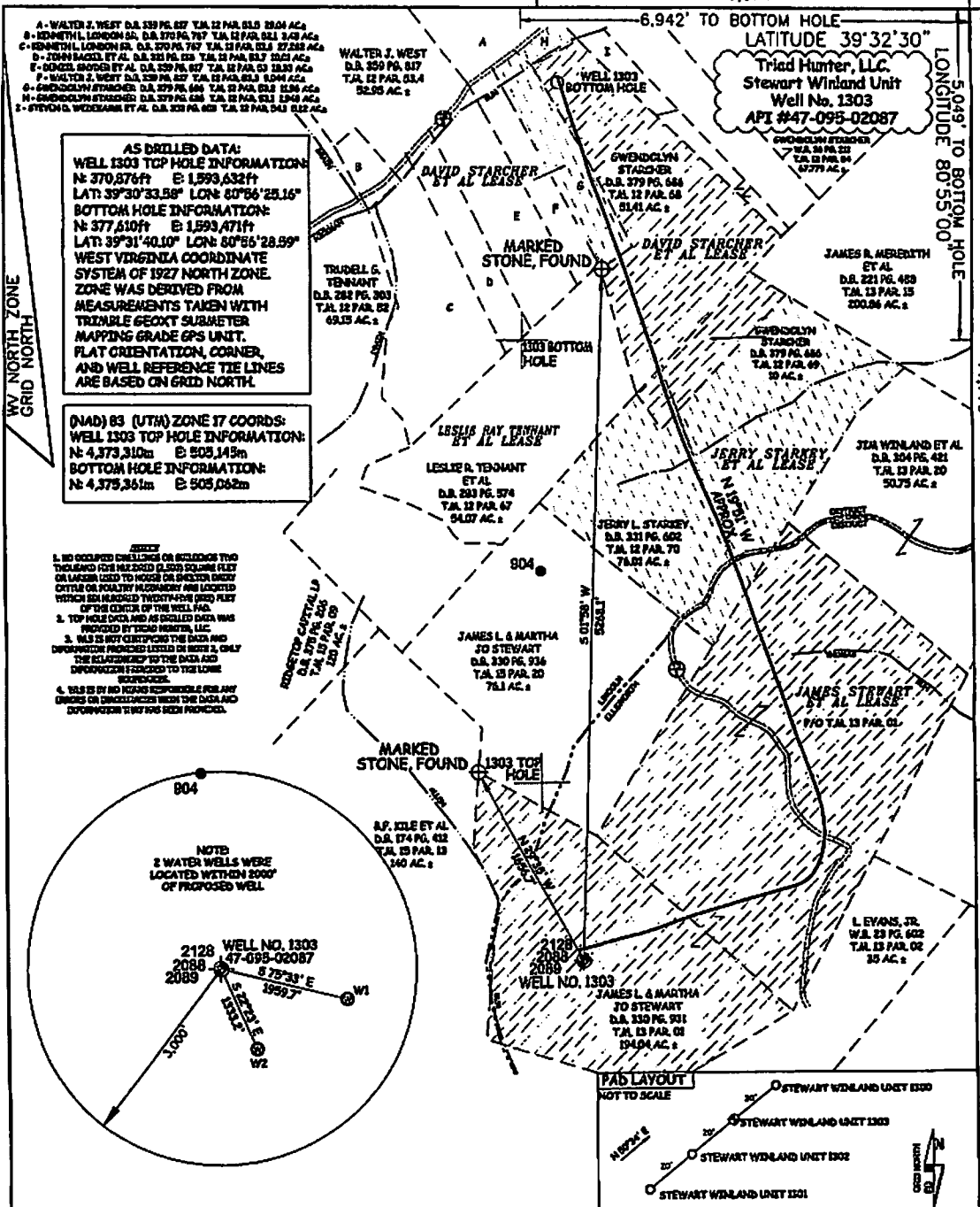
STAGE #	SURFACTANT (gals.)	BIOCIDE (gals.)	SCALE INHIBITOR (gals.)	FRICTION REDUCER (gal.)	LINEAR GEL (gal.)	SP BREAKER (gal.)	7.5%/15% FE ACID (gal.)
1	365	120	50	370	450	2	0 / 3000
2	360	110	40	450	421	2	0 / 3000
3	315	95	40	390	385	2	0 / 3000
4	110	40	15	140	55	0.125	0 / 3000
5	350	115	40	515	301	2	0 / 3000
6	291	119	52	425	429	0.5	0 / 3000
7	385	120	40	380	780	0.75	0 / 2000
8	355	125	40	340	629	0.75	3000 / 0
9	350	140	50	450	786	0.75	3000 / 0
10	360	120	40	390	64	0.5	3000 / 0
11	400	130	50	375	266	0.5	3000 / 0
12	340	130	40	390	334	0.5	3000 / 0
13	345	135	40	310	486	0.5	3000 / 0
14	335	145	40	335	526	0.5	3000 / 0
15	358	130	45	328	595	0.75	3000 / 0
16	282	115	30	400	350	0.5	3000 / 0
17	335	140	40	335	481	0.5	3000 / 0
18	330	130	40	330	398	0.5	3000 / 0
19	410	140	45	340	620	0.5	3000 / 0
20	363	140	45	390	593	0.75	3000 / 0
21	355	140	35	350	492	1	3000 / 0
22	350	130	35	335	486	0.5	3000 / 0
23	335	133	38	325	537	0.5	3000 / 0
24	365	148	48	405	626	0.625	3000 / 0
25	366	150	50	368	595	1	3000 / 0
26	340	135	45	370	572	0.5	3000 / 0
27	360	120	38	340	524	0.5	3000 / 0
28	363	145	44	380	630	0.5	3000 / 0
29	353	139	38	400	597	0.625	3000 / 0
<b>TOTALS:</b>							
29 Stages	9,986 Gals	3,679 Gals	1,193 Gals	10,656 Gals	14,008 Gals	23 Gals	85,000 Gals

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LATITUDE 39°32'30"

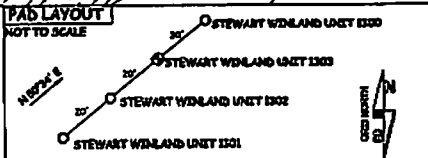
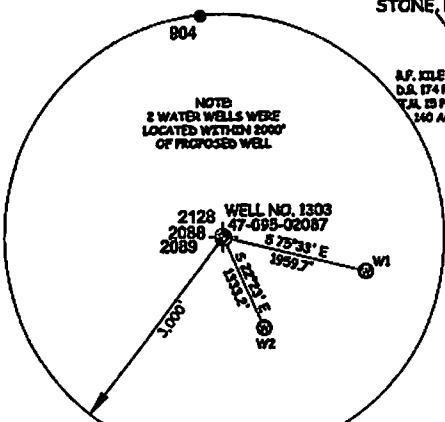
6.674'



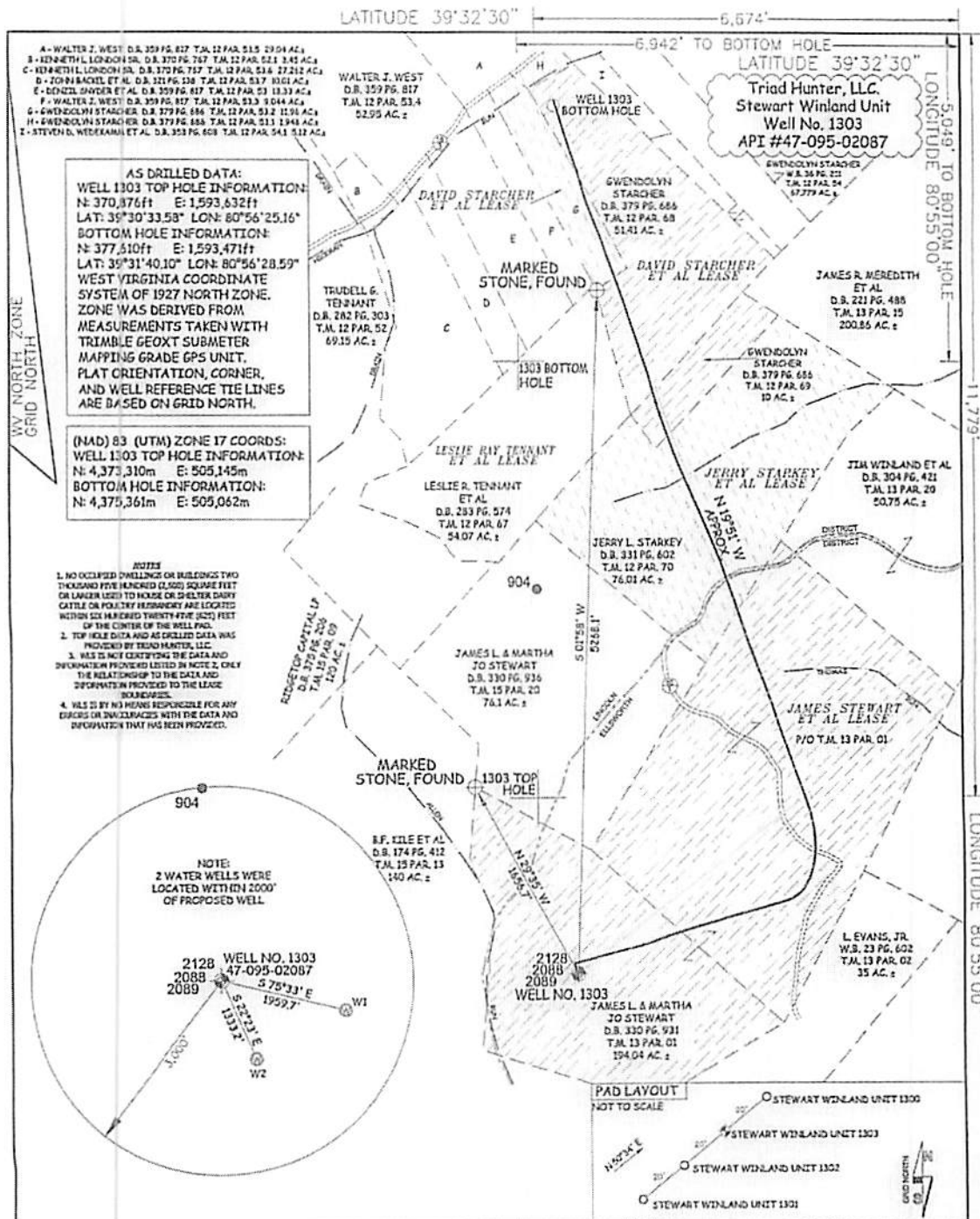
**AS DRILLED DATA:**  
**WELL 1303 TOP HOLE INFORMATION:**  
 N: 370,674ft E: 1,593,632ft  
 LAT: 39°30'33.56" LON: 80°56'25.16"  
**BOTTOM HOLE INFORMATION:**  
 N: 377,610ft E: 1,593,471ft  
 LAT: 39°31'40.10" LON: 80°56'28.59"  
**WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. FLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.**

**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 1303 TOP HOLE INFORMATION:**  
 N: 4,373,310m E: 503,143m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,375,351m E: 503,062m

- NO OCCUPIED BUILDINGS OR STRUCTURES THO THOUSANDS OF HECTARES (2500 SQUARE FEET) OR LARGER USED TO HOUSE OR HOLD OTHER OUTCROP OR PLANTING MATERIALS AND LOCATED WITHIN 500 METERS TWENTY-FIVE (25) FEET OF THE CENTER OF THE WELL PAD.
- TOP HOLE DATA AND AS DRILLED DATA WAS PROVIDED BY TRIAD HUNTER, LLC.
- WELL IS NOT CERTIFIED THE DATA AND INFORMATION PROVIDED LISTED IN HERE IS ONLY THE RELIABILITY OF THE DATA AND INFORMATION PROVIDED TO THE LONE SURVEYOR.
- THIS IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



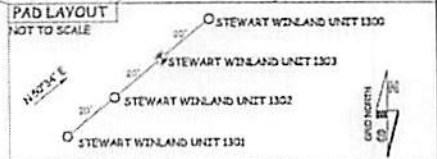
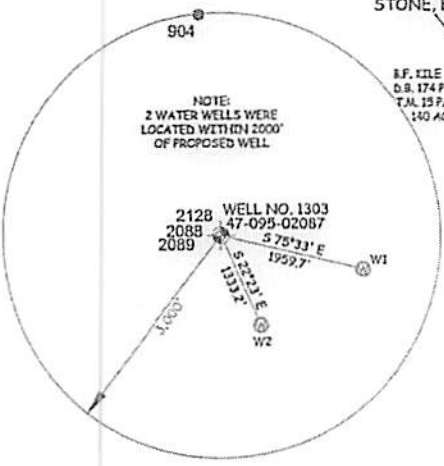
JOB # 12-086WT	WELL SURFACE OWNER ADDRESS	LEGEND
DRAWING # STEWART1303AD	W1 L. Evans, Jr. 946 Allen Run Road, Summersville, WV 26079	--- Surface Owner Boundary Lines +/-
SCALE 1" = 1000'	W2 Hardy H. Omer, Et Al 923 Allen Run Road, Summersville, WV 26079	- - - Interior Surface Tracts +/-
MINIMUM DEGREE OF ACCURACY SUBMETER	STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS	- x - x - Existing Fences
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS	WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415	⊕ Found monument, as noted
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	DATE 02/17/15	95-02087
WELL TYPE: OIL GAS <input checked="" type="checkbox"/> LIQUID INJECTION WASTE DISPOSAL	OPERATOR'S WELL # STEWART WINDLAND UNIT 1303	API WELL # RECEIVED
(IF "GAS") PRODUCTION <input checked="" type="checkbox"/> STORAGE DEEP SHALLOW <input checked="" type="checkbox"/>	LOCATION: ELEVATION 388' WATERSHED CUTLET MIDDLE ISLAND CREEK	47 OFFICE OF OIL AND GAS
QUADRANGLE PADEN CITY 7.5 DISTRICT ELSWORTH COUNTY TYLER	SURFACE OWNER JAMES L. & MARTHA JO STEWART ACREAGE 194.04 ACRES	STATE COUNTY PERMIT
OIL & GAS ROYALTY OWNER JAMES STEWART ET AL; JERRY STARKEY ET AL; DAVID STARCKER ET AL; DAVID STARCKER ET AL	LEASE ACREAGE 189 ACRES	Office of Oil and Gas
PROPOSED WORK: DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE STIMULATION	PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL WORKS <input type="checkbox"/>	Office of Oil and Gas
(SPECIFY) <input checked="" type="checkbox"/> AS DRILLED	CLEAN OUT & REPLUG	Office of Oil and Gas
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,149' TVD 13,045' MD		Office of Oil and Gas
WELL OPERATOR TRIAD HUNTER, LLC DESIGNATED AGENT KIMBERLY ARNOLD	ADDRESS 777 POST OAK BLVD., SUITE 910 ADDRESS P.O. BOX 154	Office of Oil and Gas
FORM WW-6 HOUSTON, TX 77058		Office of Oil and Gas



**AS DRILLED DATA:**  
**WELL 1303 TOP HOLE INFORMATION:**  
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 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT, PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

**(NAD) 83 (UTM) ZONE 17 COORDS:**  
**WELL 1303 TOP HOLE INFORMATION:**  
 N: 4,373,310m E: 505,145m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,375,361m E: 505,062m

- NOTES**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2500) SQUARE FEET OR LARGER USED TO HOUSE OR SHEPHERD DAIRY CATTLE OR POLYTRUCK FARMING ARE LOCATED WITHIN SIX HUNDRED THIRTY-FIVE (635) FEET OF THE CENTER OF THE WELL PAD.
  2. TOP HOLE DATA AND AS DRILLED DATA WAS PROVIDED BY TRIAD HUNTER, LLC.
  3. THIS IS NOT CERTIFYING THE DATA AND INFORMATION PROVIDED LISTED IN NOTE 2, ONLY THE RELATIONSHIP TO THE DATA AND INFORMATION PROVIDED TO THE LEASE ROYALTY.
  4. THIS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.



JOB # 12-096WT	WELL SURFACE OWNER	ADDRESS	<b>LEGEND</b>
DRAWING # STEWART1303AD	W1 L. Evans, Jr.	945 Allen Run Road Sistersville, WV 26175	--- Surface Owner Boundary Lines +/-
SCALE 1" = 1000'	W2 Earnley H. Owens, Et Al	953 Allen Run Road Sistersville, WV 26175	- - - Interior Surface Tracts +/-
MINIMUM DEGREE OF ACCURACY SUBMETER		STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS	- x - x - Existing Fence
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS			⊕ Found monument, as noted
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS	WILLOW LAND SURVEYING PLLC 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415		DATE 02/17/15
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL	OPERATOR'S WELL # STEWART WIDLAND UNIT #1303		API WELL # 47 - 095 - 02087
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X	ACREAGE 194.04 ACRES +/-		STATE COUNTY PERMIT
LOCATION: ELEVATION 995' WATERSHED OUTLET MIDDLE ISLAND CREEK	LEASE ACREAGE 194 ACRES +/-		COUNTY NAME PERMIT
QUADRANGLE PADEN CITY 7.5'	61.41 ACRES +/-		
SURFACE OWNER JAMES L. & MARTHA JO STEWART	PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE		
OIL & GAS ROYALTY OWNER JAMES STEWART ET AL; JERRY STARKEY ET AL;	PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL		
DAVID STARCHER ET AL; DAVID STARCHER ET AL	(SPECIFY) (x) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG		
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE	TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,149' TVD 13,045' MD		
WELL OPERATOR TRIAD HUNTER, LLC.	DESIGNATED AGENT KIMBERLY ARNOLD		
ADDRESS 777 POST OAK BLVD., SUITE 910 HOUSTON, TX 77056	ADDRESS P.O. BOX 154 WAVERLY, WV 26184		