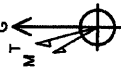


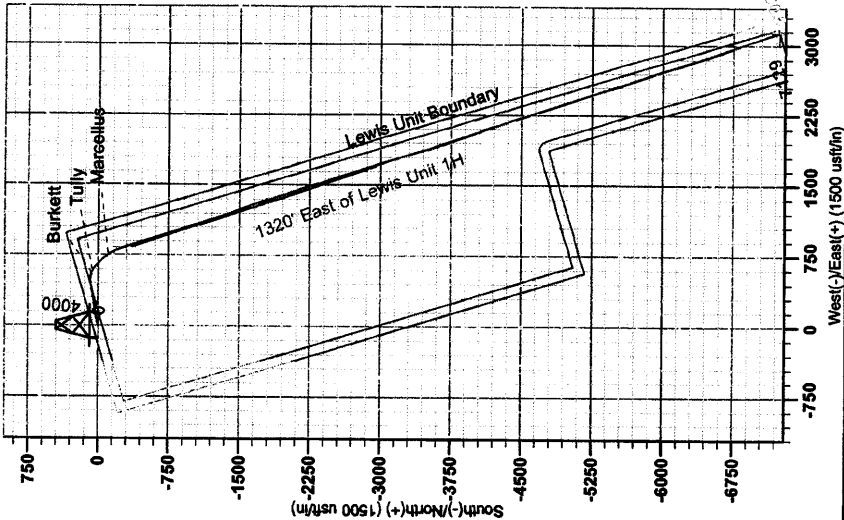
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To convert Magnetic North to Grid North
or convert True North to Grid, Subtract 0.34°
Magnetic North: -0.34°
Grid North: 0.00°
Magnetic Field
Strength: 52380.3eNT
Dip Angle: 66.85°
Date: 1/29/2013
Model: IGRF2010



WELL DETAILS: Lewis Unit 3H
Ground Level: 1368.0
Easting: 1790638.3338° 13° 24.748' N80° 28' 10.437" W
Longitude: 80° 28' 10.437" W
Skt

PROJECT DETAILS: Harrison County West Virginia
Geoid: System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 83 (NAD83 CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 17N (84 W to 78 W)
System Datum: Mean Sea Level

REFERENCE INFORMATION:
Coordinate System: UTM
Vertical (VD) Reference: Lewis Unit 3H (1500' x 2000' @ 1411.0usft Original Well Elev)
Horizontal (HD) Reference: Lewis Unit 3H (1500' x 2000' @ 1411.0usft Original Well Elev)
Calculation Method: Minimum Curvature

Gentle Lightfoot
9:36, July 18 2013
Scientific Drilling
421 South Eagle Lane
Oklahoma City, OK

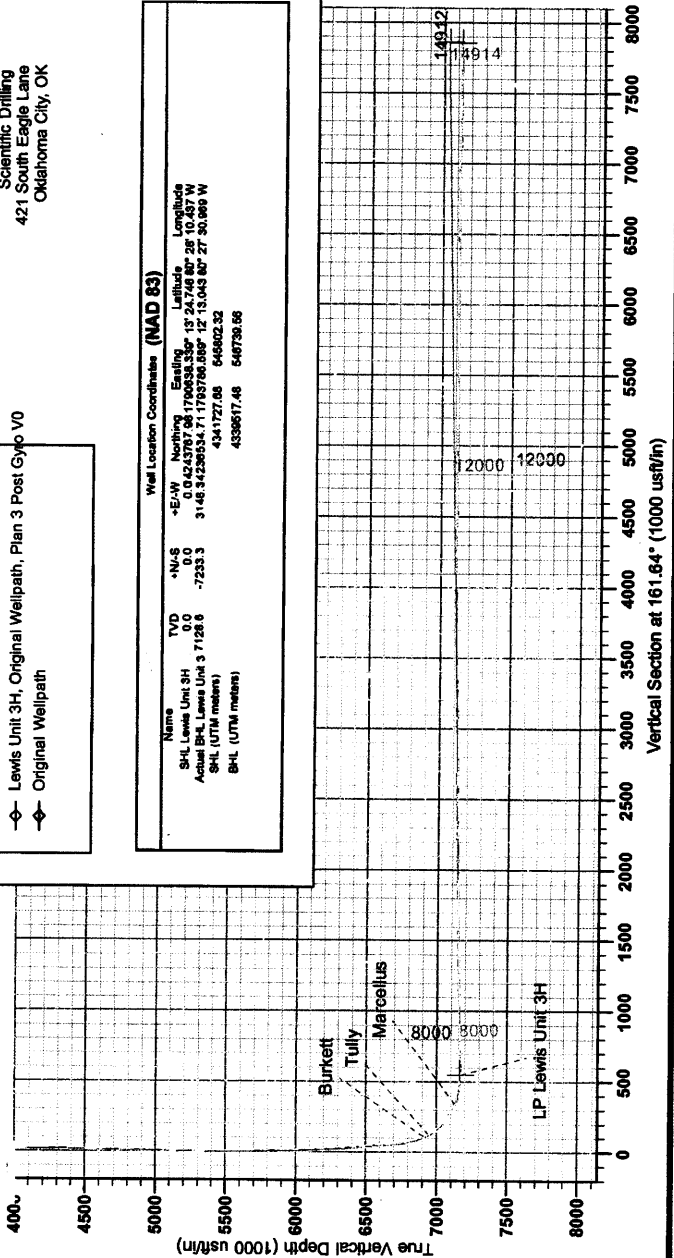


LEGEND
-o- Lewis Unit 3H, Original Wellpath, Plan 3 Post Gyro VO
-o- Original Wellpath

Well Location Coordinates (NAD 83)
Name: TVD +N/S +E/W Northing Easting Longitude
SHL Lewis Unit 3H 7128.0 -7233.3 3146.3422595817 1790638.3338 13° 24.748' N80° 28' 10.437" W
Actual BHL Lewis Unit 3 7128.0
SHL (UTM meters) 4341727.06 646602.32
BHL (UTM meters) 4339617.48 646739.56



Antero Resources
Lewis Unit 3H
Harrison County West Virginia
Northing: 14243767.98
Easting: 1790638.33
Original Wellpath

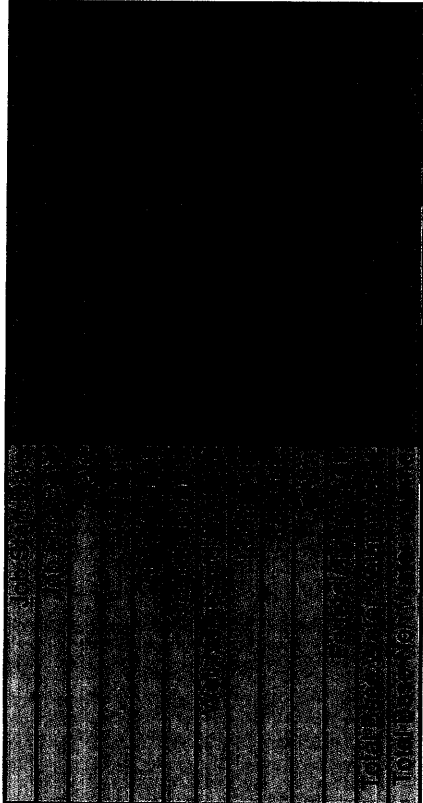


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Hydraulic Fracturing Fluid Product Component Information Disclosure



Hydraulic Fracturing Fluid Composition:

					(% by mass) ¹	(% by mass) ²
Water	ANTERO RESOURCES	Water				
			7732-18-5		100.00000	89.55439
WV Specific 40/70 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia				
			14808-60-7		99.90000	5.47682
			1344-28-1		1.10000	0.06031
			1309-37-1		0.10000	0.00548
			13463-67-7		0.10000	0.00548
WV Specific 20/40 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia				
			14808-60-7		99.90000	3.24332
			1344-28-1		1.10000	0.03571
			13463-67-7		0.10000	0.00325
			1309-37-1		0.10000	0.00325
WV Specific 100 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia				
			14808-60-7		99.90000	1.45420
			1344-28-1		1.10000	0.01601
			1309-37-1		0.10000	0.00146

Product Name	Service	Chemical Name	Chemical ID	Quantity	Concentration
WFR-3B	Nabors Completion and Production Services	Titanium Oxide	13463-67-7	0.10000	0.00146
		Hydrotreated light distillates, non-aromatic, BTEX free	84742-47-8	50.00000	0.03297
		Ethoxylated alcohols	88551-12-2	15.00000	0.00989
		Ethoxylated oleylamine	26635-93-8	5.00000	0.00330
LSG-100L	Nabors Completion and Production Services	Gelling Agents			
		Petroleum Distillates	84742-47-8	70.00000	0.03414
HCl Acid (12.5%-18.0%)	Nabors Completion and Production Services	Bulk Acid			
		Hydrogen Chloride	7647-01-0	18.00000	0.01987
OB-2	Nabors Completion and Production Services	Gel Breakers			
		Ammonium Persulfate	7727-54-0	100.00000	0.00768
		Silica, crystalline quartz	7631-86-9	10.00000	0.00077
KR-153SL	Nabors Completion and Production Services	Biocides			
		Polyethylene-Glycol	25322-88-3	50.00000	0.00425
		2,2-dibromo-3-nitropropanamide	10222-01-2	20.00000	0.00170
Super GREEN SOLV	Nabors Completion and Production Services	Paraffin & Scale Additives			
		BTEX Free Aliphatic Hydrocarbon	84742-96-7	100.00000	0.00488
EB-4L	Nabors Completion and Production Services	Gel Breakers			
		Breaker Component	Proprietary	100.00000	0.00038
		Demulsifier Base	Proprietary	100.00000	0.00038
		Cellulase enzyme	Proprietary	100.00000	0.00038
		Sugar	57-50-1	100.00000	0.00038
		Water	7732-18-5	100.00000	0.00038
		Ethylene Glycol	107-21-1	40.00000	0.00015
Acid Inhibitor 2 (AI-2)	Nabors Completion and Production Services	Acid Corrosion Inhibitors			
		Glycol Ethers	111-46-6	40.00000	0.00008
		Propargyl Alcohol	107-19-7	40.00000	0.00008
		Isopropyl Alcohol	67-63-0	40.00000	0.00008
		Ethoxylated Nonylphenol	38412-54-4	13.00000	0.00003
		Tar bases, quinoline derive, benzyl chloride-quaternized	72480-70-7	10.00000	0.00002

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

Other Ingredients	Nabors Completion and Production Services	Other Ingredients					
		Water	7732-18-5		87.50000	0.09661	
		Polyacrylamide	57-55-6		40.00000	0.02638	
		Water	7732-18-5		40.00000	0.02638	
		guar gum	9000-30-0		50.00000	0.02438	
		Propylene glycol	57-55-6		15.00000	0.00988	
		Water	7732-18-5		60.00000	0.00859	
		Proprietary	Proprietary		50.00000	0.00716	
		Water	7732-18-5		80.00000	0.00679	
		Proprietary	Proprietary		15.00000	0.00215	
		Proprietary	Proprietary		15.00000	0.00215	
		Proprietary	Proprietary		15.00000	0.00215	
		vinylidene chloride-methyl acrylate copolymer	25038-72-6		20.00000	0.00154	
		Crystalline Silica (in the form of quartz)	14808-60-7		2.00000	0.00098	
		Surfactant	88439-51-0		2.00000	0.00098	
		Microparticle	Proprietary		1.00000	0.00066	
		Water	7732-18-5		48.00000	0.00010	
		2-Butoxyethanol	111-76-2		13.00000	0.00003	
		Dioxane	123-91-1		1.00000	0.00000	
		Organophylic Clay	88953-58-2				

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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