

**Energen Resources Corp.**

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

**Drilling Report****Report No: 74****Report Date: 3/18/2014**

Well Name: University 16-17 #1H											
Surface Location: 440 FSEL, 467 FSWL / Bottom Hole Location: 200 FSEL, 467 FSWL - WARD, TX											
Report No:	74	Rpt T. Activity:	07 - Rig Service			AFE #:	PBE010314				
Operation Desc:	Wash & Ream @ 16,650'					AFE Total:	\$9,549,553				
Spud Date:	1/9/2014	API Code:	4247536593			AFE DHC:	\$3,792,878				
Days from Spud:	68	Rig Supervisor 1:	Benjamin Ducote	318-509-9166		Daily Costs:	\$69,459				
Field Name:	ANTOM (WOLFCA)	Rig Supervisor 2:	Brett Alcorn	918-721-9838		This AFE DHC to Date:	\$6,216,931				
Sec/Twn/Rng:	16 / 17 /	Tool Pusher:	James Walker	( ) -		This AFE CWC to Date:	\$6,216,931				
Start Depth(ft):	16989	Formation:	Wolfcamp			Total Project Costs:	\$6,216,931				
Ending Depth(ft):	16989	RKB to MSL:	2690	RKB to THF:	0	Total w/ Assoc AFEs:	\$6,216,931				
TVD:	11668	RKB to LMF:	0	RKB to CHF:	0	Daily Mud Costs:	\$5,094				
Rig Company:	Precision Drilling	24 Hr. Footage:	0	Develop To:	0	Cum Mud Costs:	\$729,499				
Rig Name:	Precision Drilling	Location Survey:	103.18076	// 31.57898 Section 16		Abstract:	A-U55				
24-Hour Summary/Remarks: TIH w/ Reamer Assembly. TIH & Ream Tight Spots from TOC to 16650'											
Next Day Operations: Finish Reaming to TD. Circulate Hi Vis Sweeps. POOH Laying Down DP. Run 4.5" Liner.											
4.5" Liner @ 16989											
Weather Summary: None.											
Weather											
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks						
6:00	W	10.00	Clear	41	None.						
Surveys											
Survey No.	Survey Date	Tie In	Meas. Depth	Inclination	Azimuth	Des Azi	TVD	Vert Sect	N/S(+/-)	E/W(+/-)	DLS
159	3/16/2014	<input type="checkbox"/>	16835	91.62	165.19	161.00	11673.38	5366.02	-5154.62	1511.89	0.41
160	3/16/2014	<input type="checkbox"/>	16916	92.13	165.92	161.00	11670.73	5446.72	-5233.02	1532.09	1.10
161	3/16/2014	<input type="checkbox"/>	16989	92.13	165.92	161.00	11668.02	5519.40	-5303.78	1549.83	0.00
Casing											
Type	Date Run	Casing Top	Set Depth	Size	Weight	Grade	Drift	Hole Size	TD	Shoe Test	
Surface	1/14/2014	25.00	4902.68	9.625	40.00	N-80	8.835	12.250	4905.00	10.58	
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1400	<input checked="" type="checkbox"/>	Circulate 117 bbl cement to surface				0	2468	Calculated
No.1 Spacer, 20, 0, Fresh Water Spacer, , 0, 0											
No.2 Lead, 0, 896, C 35/65 + 6% Bentonite+.2% C-20+.4% FL-15+.25% AF-41P+.25% cello-flake+5% salt, Class C, 2.11, 12.4											
No.3 Tail, 0, 384, C + .2% R-20+.4% FL-15+.25% AF-41P, Class C, 1.33, 14.8											
No.4 Displacement, 369, 0, Brine water, , 0, 0											
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	2200	<input checked="" type="checkbox"/>	Circulate 50bbl cement to surface				0	0	Circulated
No.1 Spacer, 20, 0, Fresh Water Spacer, , 0, 0											
No.2 Lead, 0, 1091, C + 4% Bentonite + .25% AF-41P, Class C, 1.72, 13.5											
No.3 Tail, 0, 363, C + .25% AF-41P, Class C, 1.33, 14.8											
No.4 Displacement, 187, 0, Brine Water, , 0, 0											
Intermediate	1/27/2014	25.00	10567.15	7.000	32.00	P-110	6.094	8.750	10572.00		
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1300	<input type="checkbox"/>	circ 50bbls cement back to sur. thr Dv tool				50	5292	Circulated
No.1 Lead, 0, 630, 35/6+6% Bentonite .5% FI-16+0.5% R-20+0.25% AF-41P+.02%CD-35+.25% Cello-flake+.5% salt, Class H, 2.01, 12.6											
No.2 Tail, 0, 130, 50/50+2%Bentonite+.4%R-20+.25%AF-41P+0.25#Cell-Flake+5%Salt, Class H, 1.3, 14.2											
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	1100	<input checked="" type="checkbox"/>	Cement was starting to come back when bump				1	0	Circulated
No.1 Lead, 0, 370, 35/65+6% Bentonite+.04%R-20+.25%AF-41P+0.25%AF-41P+.25#Cello Flake+0.2%CD-35+5%Salt, Class C, 2.1, 12.4											
No.2 Tail, 0, 210, 50/50+0.2%R-20+0.25%AF-41P+0.1%CD-35+2.0%Benonite+0.25#Cello Flake+5% Salt, Class C, 1.3, 14.2											
Pipe on Rack	2/19/2014	10363.00	17030.00	4.500	15.10	P-110		6.000	17034.00		
Pipe on Rack	2/22/2014	10359.32	16989.00	4.500	15.10	P-110		6.000	16989.00		
BOP Test and Inspection Dates											
Last BOP Test:	2/20/2014	Days Since BOP Tested:	26	Last Inspection:	3/8/2014						
Last BOP Drill Date:	3/16/2014	BOP Test Due:	3/12/2014								

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/18/2014	74	16989	07 - Rig Service	12.5	\$69,459	\$6,216,931	\$9,549,553



**Energen Resources Corp.**

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

**Report No: 74**

**Report Date: 3/18/2014**

<b>Well Name: University 16-17 #1H</b>															
<b>Mud Properties</b>															
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
16989	3:00	12.50	12.50	55	17	20	9/15/	3.7	9.0	1	2.00	21.0%	75.0%	4.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Lost	
4.0	9.00	0.10	0.05	4.50	38000	580	0	0.00	0.01	0	0	0.00	5/95		
Water Lost	LCM	ECD	FL Temp	Remarks											
0	0.0	13.1	0	Maintaining 1500ppm Bio-cide in the active system. EP-NAF Treatments - 1-2sx Graphite, 1-2 sx Black sack, 1-2 sx clear seal-5 Cumulative Losses: 1770bbl mud. Clear Fluid Percentage : 11% Beads 2 lb/bbl Raise Mud Weight to 12.4# to control gas.											
<b>Hours Summary ( Daily / Cumulative )</b>															
Drilling	0.00 / 616	Rotating	5.50 / 741	Trips	17.00 / 427	Circulating	0.00 / 103	Down	0.00 / 18	Other	1.50 / 487				
<b>Operations</b>															
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run
6:00	6.00	06	TIH w/ Reamer Assembly. PU 21jnts DP										16989	16989	19
12:00	1.00	09	Slip & Cut Drill Line										16989	16989	19
13:00	11.00	06	TIH Reaming Tight Spots										16989	16989	19
0:00	5.50	03	Wash & Ream Tight Hole F/ 14900' T/ 16650'.										16989	16989	19
5:30	0.50	07	Rig Service										16989	16989	19
Total:	24.00														
<b>Drilling Data</b>															
Hook Load:	195		Pick Up:	280		Slack Off:	165		Over Pull:	85					
ROP:	0.00		Pres on Bot:	4200		Press Off Bot:	3900		Kickoff Depth:	11190					
WOB:	12		Rotary RPM:	55		Motor RPM:	112		Torque:	10000					
BHA Hours:	0.00		Crew Status:	On		Remarks:	None.								

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/18/2014	74	16989	07 - Rig Service	12.5	\$69,459	\$6,216,931	\$9,549,553

**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 74****Report Date: 3/18/2014**

Well Name: University 16-17 #1H																		
Daily Bits																		
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq	
9	8	2/12/2014	6	Smith	XR30T	PY8828	10878	11005	127	127	3.00	6.00	21.2			0	0	
Date Out			Jets	18 / 18 / 18 / 0 / 0 / 0 / 0				TFA	0.75	Char (I/O/D/O/L/B/G/R)				/ / / / / / /				
Mud Motors																		
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM			
6	5	Pathfinder				8 3.8 Stage .279 r/g 2.12d				127	127	3	3.0	229	64			
Drilling Assembly																		
Component		Qty	Length	OD Avg	ID Avg	Tot Length		Remarks										
Bit - Insert - Tri-Cone		1	0.75	6.000	1.500	0.75		Smith XR30T SN:PY8828										
Motor		1	22.89	5.000	1.500	23.64		Pathfinder SN 4187										
Sub - Float		1	3.14	4.750	2.250	26.78		Pathfinder										
Sub - Orienting		1	3.87	4.750	2.250	30.65		Pathfinder										
Monel		1	30.04	4.750	2.250	60.69		Pathfinder										
Other		1	4.00	4.750	2.250	64.69		Pathfinder Flow Sleeve Sub										
Monel		1	30.18	4.750	2.250	94.87		Pathfinder										
Sub - XO		1	3.10	4.750	2.250	97.97		Thomas Tools										
HWD		21	641.61	4.880	2.375	739.58		Thomas Tools										
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq	
13	12	2/24/2014	6	Halliburton	MM64D	1228331	14175	14254	0	0	0.00	0.00	0.0			0	0	
Date Out			Jets	14 / 14 / 14 / 14 / 15 / 15 / 0 / 0				TFA	0.94	Char (I/O/D/O/L/B/G/R)				/ / / / / / /				
Mud Motors																		
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM			
10	4.75	NOV				7/8 3.8 Stage .56 RPG Str.				0	0	0	0.0	239	134			
Drilling Assembly																		
Component		Qty	Length	OD Avg	ID Avg	Tot Length		Remarks										
Bit - PDC - Fixed Cutter		1	0.75	6.000	1.250	0.75		Halliburton MM64D 12283316										
Other		1	14.61	5.875	3.640	15.36		SLB PD 475X5 CA 5-3/4" Stabilized										
Sub - Orienting		1	3.39	4.750	2.250	18.75		UBHO SLB 475AU05										
Other		1	7.20	4.940	2.750	25.95		CLPS SLB CC 4005										
Monel		1	30.04	4.750	2.250	55.99		MWD DR 18858										
Other		1	5.00	4.750	2.250	60.99		Flow Sleeve DR 20765										
Stab - IB		1	5.49	5.750	2.250	66.48		DR 19072										
Sub - Filter		1	3.04	4.750	2.250	69.52		DR 22499										
Sub - XO		1	2.03	4.690	1.500	71.55		PxP X-O DR 23700										
Motor		1	23.98	5.880	3.750	95.53		NOV 500-36-300										
Stab - IB		1	4.60	5.880	2.250	100.13		DR 14001										
Sub - XO		1	3.51	5.130	2.438	103.64		DR 10261										
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq	
18	14	3/13/2014	6	Halliburton	FX64D	1200348	15212	16989	1777	1777	80.50	80.50	22.1	7	55	126	10000	
Date Out		3/17/2014	Jets	14 / 14 / 14 / 14 / 16 / 16 / 0 / 0				TFA	1.00	Char (I/O/D/O/L/B/G/R)				1 / 2 / CT / NO / G / 0 / 1 / TD				
Mud Motors																		
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM			
13	4.75	Bico				7/8 3.8 stage .58 RPG Str.				0	0	2	2.0	215	125			
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq	
19	14	3/17/2014	6	Halliburton	FX64D	1200348	16989	16989	0	1777	5.50	86.00	20.7			0	0	
Date Out			Jets	14 / 14 / 14 / 14 / 16 / 16 / 0 / 0				TFA	1.00	Char (I/O/D/O/L/B/G/R)				/ / / / / / /				
Drilling Assembly																		
Component		Qty	Length	OD Avg	ID Avg	Tot Length		Remarks										
Bit - PDC - Fixed Cutter		1	0.75	6.000	1.250	0.75		Hall FX64D PDC										
Sub - Bit		1	2.73	4.750	2.875	3.48		Thomas TTN2192S										
Sub - XO		1	3.41	4.880	2.500	6.89		Thomas TT84175										
Mill - Watermelon		1	5.85	4.750	2.500	12.74		Smith RT Mill 84215J										
Drill pipe		1	31.31	4.000	3.340	44.05		Thomas 4" DP										
Mill - Watermelon		1	5.96	4.750	2.500	50.01		Smith RT Mill 84214J										
Mud Pumps																		
Pump No	Model	Liner Size	Stroke	Max PSI	Max SPM	SPM	GPM	Press.	Slow Pump Rates/Pres.									
1	FD-1600	5.5	12	4250	120	55	193	1800	20/	30/	40/							
2	FD-1600	5.5	12	4250	120				20/	30/	40/							
Drilling Breaks and Shows																		
BGRD Gas:		1750	Trip Gas:		3506	Surv Gas:			Conn Gas:			Peak Gas:		3506				
Shale %:		90.0	Sand %:		0.0	Others %:		10.0	Shale Den:		0.0	D'Exp:		0.0				
Depth:		0.0	Pore Press:		0.0	H2S:		0.0	Cir. Temp:		0.0							
Desc:		90% Shale, 10% Limestone																
Mud Added																		
Item	Qty	Units	Item	Qty	Units	Item	Qty	Units										
Diesel	1282	gal																

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/18/2014	74	16989	07 - Rig Service	12.5	\$69,459	\$6,216,931	\$9,549,553



# Energen Resources Corp.

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

Report No: 74  
Report Date: 3/18/2014

Well Name: University 16-17 #1H							
Inventory							
Item	Units	Beg Inv	Received	Used	Lost	Transfrd	End Inv
Barite (Bulk)	tons	45	0	0	0	0	45
Diesel	gal	7349	0	1282	0	0	6067
Personnel Data							
Company	Service	Qty.	Hours	Company	Service	Qty.	Hours
Mud Masters Group	MUD ENGINEER	2	24.00	New Prospect Company	CO MAN	2	24.00
Precision Drilling	Rig Crews	11	132.00	Schlumberger	Directional	5	60.00
Suttles	MUD LOGGERS	1	24.00				
<b>Totals</b>		<b>21.00</b>	<b>264.00</b>				
Health Safety and Environment							
Type	Date	Activity	Company Name	Personnel	Lost Time	First Aid	Med Visit
Drilling	3/18/2014		Precision Drilling	Rig Crew & TP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pre-tour Meeting: Slips, Trips, Falls Campaign							
Daily Cost Details							
IDC	Code	Vendor	Remarks	Daily Exp	Cum Exp		
IDC - COMPANY LABOR	20.950.010				\$1,387		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Drilling Superintendent	\$550	\$351,500		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Rig Site Supervision	\$3,300	\$351,500		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Project Engineer	\$900	\$351,500		
IDC - ROAD & SITE CON	20.950.030				\$144,276		
IDC - FIELD OFFICE	20.950.040	Pason Systems USA Co	EDR, PVT System	\$765	\$125,100		
IDC - RIGHT OF WAY &	20.950.060				\$35,000		
IDC - PERMITS SURVEY	20.950.080				\$15,000		
IDC - DRILL - BIT & STA	20.950.101				\$122,073		
IDC - DRILL - CEMENT &	20.950.102				\$42,251		
IDC - DRILL - CONTRAC	20.950.103	Precision Drill	Rig 594 and Crew	\$24,000	\$1,776,000		
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	2 Mud Engineer + Mud Cost	\$5,094	\$729,499		
IDC - DRILL - EQUIPMEN	20.950.105				\$27,056		
IDC - DRILL - FUEL POW	20.950.106				\$331,431		
IDC - DRILL - HAULING	20.950.107	San Jan Hot Shot	Haul Pathfinder Tools	\$555	\$57,903		
IDC - DRILL - FLUIDS	20.950.108				\$67,970		
IDC - DRILL - DIRECTIO	20.950.109	Schlumberger Directiona	2 MWD / 2 Directional	\$8,675	\$745,788		
IDC - DRILL - GAS/AIR U	20.950.110				\$12,330		
IDC - DRILL - MOBDEMO	20.950.111				\$181,962		
IDC - DRILL - FISHING/SI	20.950.112				\$30,619		
IDC - DRILL - DOWNHOL	20.950.113				\$94,298		
IDC - DRILL - SURFACE	20.950.114	Elite	Rotating Head	\$24,020	\$266,455		
IDC - LOGGING	20.950.150				\$130,376		
IDC - F&C - CEMENT & S	20.950.201				\$35,724		
IDC - F&C - SPECIAL SE	20.950.206				\$42,092		
<b>Total IDC:</b>				<b>\$67,859</b>	<b>\$5,546,014</b>		
TDC	Code	Vendor	Remarks	Daily Exp	Cum Exp		
TDC - DE - CONDUCTO	20.940.101				\$1,725		
TDC - DE - PRODUCTIO	20.940.104	Rousabout Inc	Install Centralizers	\$1,100	\$45,430		
TDC - DE - PRODUCTIO	20.940.104	Roustabout Inc	Install Centralizers	\$500	\$45,430		
TDC - DE - SURFACE CA	20.940.106				\$587,209		
TDC - SE - CASING/ WE	20.940.201				\$36,553		
<b>Total TDC:</b>				<b>\$1,600</b>	<b>\$670,917</b>		
<b>Total Cumulative Well Costs:</b>				<b>\$69,459</b>	<b>\$6,216,931</b>		

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/18/2014	74	16989	07 - Rig Service	12.5	\$69,459	\$6,216,931	\$9,549,553

**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 75****Report Date: 3/19/2014**

Well Name: University 16-17 #1H											
Surface Location: 440 FSEL, 467 FSWL / Bottom Hole Location: 200 FSEL, 467 FSWL - WARD, TX											
Report No:	75	Rpt T. Activity:	12 - Run Casing & Cement				AFE #:		PBE010314		
Operation Desc:	Running 4.5" casing				AFE Total:		\$9,549,553				
Spud Date:	1/9/2014	API Code:	4247536593				AFE DHC:		\$3,792,878		
Days from Spud:	69	Rig Supervisor 1:	Benjamin Ducote	318-509-9166		Daily Costs:		\$65,663			
Field Name:	ANTOM (WOLFCA)	Rig Supervisor 2:	Milton Ducote	318-264-5614		This AFE DHC to Date:		\$6,282,594			
Sec/Twn/Rng:	16 / 17 /	Tool Pusher:	James Walker	( ) -		This AFE CWC to Date:		\$6,282,594			
Start Depth(ft):	16989	Formation:	Wolfcamp				Total Project Costs:		\$6,282,594		
Ending Depth(ft):	16989	RKB to MSL:	2690	RKB to THF:	0	Total w/ Assoc AFEs:		\$6,282,594			
TVD:	11668	RKB to LMF:	0	RKB to CHF:	0	Daily Mud Costs:		\$9,259			
Rig Company:	Precision Drilling	24 Hr. Footage:	0	Develop To:	0	Cum Mud Costs:		\$738,758			
Rig Name:	Precision Drilling	Location Survey:	103.18076 // 31.57898 Section 16				Abstract:		A-U55		
24-Hour Summary/Remarks: W/R, L/D drill pipe and run 4.5" Csg.											
Next Day Operations: Finish running Csg and Cement.											
Weather											
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks						
6:00	N	3.00	Clear	55							
Surveys											
Survey No.	Survey Date	Tie In	Meas. Depth	Inclination	Azimuth	Des Azi	TVD	Vert Sect	N/S(+/-)	E/W(+/-)	DLS
159	3/16/2014	<input type="checkbox"/>	16835	91.62	165.19	161.00	11673.38	5366.02	-5154.62	1511.89	0.41
160	3/16/2014	<input type="checkbox"/>	16916	92.13	165.92	161.00	11670.73	5446.72	-5233.02	1532.09	1.10
161	3/16/2014	<input type="checkbox"/>	16989	92.13	165.92	161.00	11668.02	5519.40	-5303.78	1549.83	0.00
Casing											
Type	Date Run	Casing Top	Set Depth	Size	Weight	Grade	Drift	Hole Size	TD	Shoe Test	
Surface	1/14/2014	25.00	4902.68	9.625	40.00	N-80	8.835	12.250	4905.00	10.58	
Stage	Reciprocate <input type="checkbox"/>	Bump Plug <input checked="" type="checkbox"/>	Fluid Returns <input checked="" type="checkbox"/>				Cement Top				
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1400	<input checked="" type="checkbox"/>	Circulate 117 bbl cement to surface				0	2468	Calculated
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0										
No.2	Lead, 0, 896, C 35/65 + 6% Bentonite+.2% C-20+.4% FL-15+.25% AF-41P+.25% cello-flake+5% salt, Class C, 2.11, 12.4										
No.3	Tail, 0, 384, C + .2% R-20+.4% FL-15+.25% AF-41P, Class C, 1.33, 14.8										
No.4	Displacement, 369, 0, Brine water, , 0, 0										
Stage	Reciprocate <input type="checkbox"/>	Bump Plug <input checked="" type="checkbox"/>	Fluid Returns <input checked="" type="checkbox"/>				Cement Top				
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	2200	<input checked="" type="checkbox"/>	Circulate 50bbl cement to surface				0	0	Circulated
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0										
No.2	Lead, 0, 1091, C + 4% Bentonite + .25% AF-41P, Class C, 1.72, 13.5										
No.3	Tail, 0, 363, C + .25% AF-41P, Class C, 1.33, 14.8										
No.4	Displacement, 187, 0, Brine Water, , 0, 0										
Intermediate	1/27/2014	25.00	10567.15	7.000	32.00	P-110	6.094	8.750	10572.00		
Stage	Reciprocate <input type="checkbox"/>	Bump Plug <input checked="" type="checkbox"/>	Fluid Returns <input checked="" type="checkbox"/>				Cement Top				
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1300	<input type="checkbox"/>	circ 50bbls cement back to sur. thr Dv tool				50	5292	Circulated
No.1	Lead, 0, 630, 35/6+6% Bentonite .5% FI-16+0.5% R-20+0.25% AF-41P+.02%CD-35+.25% Cello-flake+.5% salt, Class H, 2.01, 12.6										
No.2	Tail, 0, 130, 50/50+2%Bentonite+.4%R-20+.25%AF-41P+0.25#Cell-Flake+5%Salt, Class H, 1.3, 14.2										
Stage	Reciprocate <input type="checkbox"/>	Bump Plug <input checked="" type="checkbox"/>	Fluid Returns <input checked="" type="checkbox"/>				Cement Top				
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	1100	<input checked="" type="checkbox"/>	Cement was starting to come back when bump				1	0	Circulated
No.1	Lead, 0, 370, 35/65+6% Bentonite+.04%R-20+.25%AF-41P+0.25%AF-41P+.25#Cello Flake+.0.2%CdD-35+5%Salt, Class C, 2.1, 12.4										
No.2	Tail, 0, 210, 50/50+0.2%R-20+0.25%AF-41P+0.1%CD-35+2.0%Benonite+0.25#Cello Flake+5% Salt, Class C, 1.3, 14.2										
Pipe on Rack	2/19/2014	10363.00	17030.00	4.500	15.10	P-110		6.000	17034.00		
Pipe on Rack	2/22/2014	10359.32	16989.00	4.500	15.10	P-110		6.000	16989.00		
BOP Test and Inspection Dates											
Last BOP Test:	2/20/2014	Days Since BOP Tested:	27				Last Inspection:	3/8/2014			
Last BOP Drill Date:	3/16/2014	BOP Test Due:	3/12/2014								

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/19/2014	75	16989	12 - Run Casing & Cement	12.55	\$65,663	\$6,282,594	\$9,549,553



**Energen Resources Corp.**

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

**Report No: 75**

**Report Date: 3/19/2014**

Well Name: University 16-17 #1H																
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
16989	3:00	12.55	12.50	54	19	17	9/14/	3.2	12.0	1	2.00	21.0%	75.0%	4.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Lost		
3.5	9.50	0.10	0.40	5.20	38000	580	0	0.00	0.01	0	0	0.00	5/95			
Water Lost	LCM	ECD	FL Temp					Remarks								
0	0.0	14.1	0					Maintaining 1500ppm Bio-cide in the active system. EP-NAF Treatments - 1-2sx Graphite, 1-2 sx Black sack, 1-2 sx clear seal-5 Cumulative Losses: 1770bbl mud. Clear Fluid Percentage : 11% Beads 2% Raise Mud Weight to 12.4# to control gas.								
Hours Summary ( Daily / Cumulative )																
Drilling	0.00 / 616	Rotating	0.00 / 741	Trips	6.00 / 433	Circulating	2.50 / 106	Down	0.00 / 18	Other	15.50 / 503					
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.50	W	Wash & Ream F/16633' T/16989'.										16989	16989	19	
9:30	2.50	05	Circ. 3 High vis sweeps around and pump slug.										16989	16989	19	
12:00	5.50	25	L/D 209 jnts. Of 4" drill pipe.										16989	16989	19	
17:30	0.50	07	Lubricate Rig.										16989	16989	19	
18:00	6.00	29	Dropped rabbit, Racked back 110 stands of drill pipe and strapped out of hole										16989	16989	19	
0:00	0.50	07	Lubricate Rig.										16989	16989	NIH	
0:30	5.50	12	Held PJSM. with casing crew, rig up and make up reaming shoe, float collar, landing collar and rupture disk valve run 4.5 csg. Checked and tested float equipment.										16989	16989	NIH	
Total:	24.00															
Drilling Data																
Hook Load:	195		Pick Up:	280		Slack Off:	165		Over Pull:	85						
ROP:	0.00		Pres on Bot:	4200		Press Off Bot:	3900		Kickoff Depth:	11190						
WOB:			Rotary RPM:			Motor RPM:			Torque:							
BHA Hours:	0.00		Crew Status:	On		Remarks:	None.									

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/19/2014	75	16989	12 - Run Casing & Cement	12.55	\$65,663	\$6,282,594	\$9,549,553



# Energen Resources Corp.

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

Report No: 75  
Report Date: 3/19/2014

Well Name: University 16-17 #1H																	
Daily Bits																	
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq
9	8	2/12/2014	6	Smith	XR30T	PY8828	10878	11005	127	127	3.00	6.00	21.2			0	0
Date Out				Jets	18 / 18 / 18 / 0 / 0 / 0 / 0			TFA	0.75	Char (I/O/D/O/L/B/G/R)			/ / / / / / /				
Mud Motors																	
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM		
6	5	Pathfinder				8 3.8 Stage .279 r/g 2.12d				127	127	3	3.0	229	64		
Drilling Assembly																	
Component		Qty	Length	OD Avg	ID Avg	Tot Length		Remarks									
Bit - Insert - Tri-Cone		1	0.75	6.000	1.500	0.75		Smith XR30T SN:PY8828									
Motor		1	22.89	5.000	1.500	23.64		Pathfinder SN 4187									
Sub - Float		1	3.14	4.750	2.250	26.78		Pathfinder									
Sub - Orienting		1	3.87	4.750	2.250	30.65		Pathfinder									
Monel		1	30.04	4.750	2.250	60.69		Pathfinder									
Other		1	4.00	4.750	2.250	64.69		Pathfinder Flow Sleeve Sub									
Monel		1	30.18	4.750	2.250	94.87		Pathfinder									
Sub - XO		1	3.10	4.750	2.250	97.97		Thomas Tools									
HWDP		21	641.61	4.880	2.375	739.58		Thomas Tools									
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq
13	12	2/24/2014	6	Halliburton	MM64D	1228331	14175	14254	0	0	0.00	0.00	0.0			0	0
Date Out				Jets	14 / 14 / 14 / 14 / 15 / 15 / 0 / 0			TFA	0.94	Char (I/O/D/O/L/B/G/R)			/ / / / / / /				
Mud Motors																	
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM		
10	4.75	NOV				7/8 3.8 Stage .56 RPG Str.				0	0	0	0.0	239	134		
Drilling Assembly																	
Component		Qty	Length	OD Avg	ID Avg	Tot Length		Remarks									
Bit - PDC - Fixed Cutter		1	0.75	6.000	1.250	0.75		Halliburton MM64D 12283316									
Other		1	14.61	5.875	3.640	15.36		SLB PD 475X5 CA 5-3/4" Stabilized									
Sub - Orienting		1	3.39	4.750	2.250	18.75		UBHO SLB 475AU05									
Other		1	7.20	4.940	2.750	25.95		CLPS SLB CC 4005									
Monel		1	30.04	4.750	2.250	55.99		MWD DR 18858									
Other		1	5.00	4.750	2.250	60.99		Flow Sleeve DR 20765									
Stab - IB		1	5.49	5.750	2.250	66.48		DR 19072									
Sub - Filter		1	3.04	4.750	2.250	69.52		DR 22499									
Sub - XO		1	2.03	4.690	1.500	71.55		PxP X-O DR 23700									
Motor		1	23.98	5.880	3.750	95.53		NOV 500-36-300									
Stab - IB		1	4.60	5.880	2.250	100.13		DR 14001									
Sub - XO		1	3.51	5.130	2.438	103.64		DR 10261									
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq
19	14	3/17/2014	6	Halliburton	FX64D	1200348	16989	16989	0	1777	5.50	86.00	20.7	8	120	0	9500
Date Out		3/18/2014		Jets	14 / 14 / 14 / 14 / 16 / 16 / 0 / 0			TFA	1.00	Char (I/O/D/O/L/B/G/R)			1 / 3 / BT / CT / H / 0 / 1 / TD				
Mud Pumps																	
Pump No	Model	Liner Size	Stroke	Max PSI	Max SPM	SPM	GPM	Press.	Slow Pump Rates/Pres.								
1	FD-1600	5.5	12	4250	120	55	193	1800	20/	30/	40/						
2	FD-1600	5.5	12	4250	120				20/	30/	40/						
Mud Added																	
Item	Qty	Units	Item	Qty	Units	Item	Qty	Units									
Diesel	1068	gal															
Inventory																	
Item	Units	Beg Inv	Received	Used	Lost	Transfrd	End Inv										
Barite (Bulk)	tons	40	0	7	0	0	33										
Diesel	gal	6067	0	1068	0	0	4999										
Personnel Data																	
Company	Service	Qty.	Hours	Company	Service	Qty.	Hours										
Mud Masters Group	MUD ENGINEER	2	24.00	New Prospect Company	CO MAN	2	24.00										
Precision Drilling	Rig Crews	11	132.00	Schlumberger	Directional	5	60.00										
Suttles	MUD LOGGERS	1	24.00														
Totals		21.00	264.00														
Health Safety and Environment																	
Type	Date	Activity	Company Name	Personnel	Lost Time	First Aid	Med Visit										
Drilling	3/18/2014		Precision	Crew													
L/D Drill Pipe																	

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/19/2014	75	16989	12 - Run Casing & Cement	12.55	\$65,663	\$6,282,594	\$9,549,553





**Energen Resources Corp.**

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

**Report No: 75**

**Report Date: 3/19/2014**

Well Name: University 16-17 #1H					
Daily Cost Details					
IDC	Code	Vendor	Remarks	Daily Exp	Cum Exp
IDC - COMPANY LABOR	20.950.010				\$1,387
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Drilling Superintendent	\$550	\$356,250
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Rig Site Supervision	\$3,300	\$356,250
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Project Engineer	\$900	\$356,250
IDC - ROAD & SITE CON	20.950.030				\$144,276
IDC - FIELD OFFICE	20.950.040	Pason Systems USA Co	EDR, PVT System	\$765	\$125,865
IDC - RIGHT OF WAY &	20.950.060				\$35,000
IDC - PERMITS SURVEY	20.950.080				\$15,000
IDC - DRILL - BIT & STA	20.950.101				\$122,073
IDC - DRILL - CEMENT &	20.950.102				\$42,251
IDC - DRILL - CONTRAC	20.950.103	Precision Drill	Rig 594 and Crew	\$24,000	\$1,800,000
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	2 Mud Engineer + Mud Cost	\$8,145	\$738,758
IDC - DRILL - MUD & CH	20.950.104	Corrosion, LTD.	Delivery charge, and chemical	\$1,114	\$738,758
IDC - DRILL - EQUIPMEN	20.950.105	Oil Patch, Water & Sewe	Pump out sewer	\$1,000	\$28,056
IDC - DRILL - FUEL POW	20.950.106				\$331,431
IDC - DRILL - HAULING	20.950.107	T Squared Services Inc.	Hauled Back TTS Vibrater w/sa	\$321	\$58,224
IDC - DRILL - FLUIDS	20.950.108				\$67,970
IDC - DRILL - DIRECTIO	20.950.109	Schlumberger Directiona	2 MWD / 2 Directional	\$8,675	\$754,463
IDC - DRILL - GAS/AIR U	20.950.110				\$12,330
IDC - DRILL - MOBDEMO	20.950.111				\$181,962
IDC - DRILL - FISHING/SI	20.950.112				\$30,619
IDC - DRILL - DOWNHOL	20.950.113	Thru Tubing	TTS	\$15,117	\$109,415
IDC - DRILL - SURFACE	20.950.114	Prime Time	5000gals of potable water	\$1,000	\$267,455
IDC - LOGGING	20.950.150				\$130,376
IDC - F&C - CEMENT & S	20.950.201				\$35,724
IDC - F&C - SPECIAL SE	20.950.206	Down Hole Inspection	Cleaned and inspect 156 jnts of	\$776	\$42,868
<b>Total IDC:</b>				<b>\$65,663</b>	<b>\$5,611,677</b>
TDC	Code	Vendor	Remarks	Daily Exp	Cum Exp
TDC - DE - CONDUCTO	20.940.101				\$1,725
TDC - DE - PRODUCTIO	20.940.104				\$45,430
TDC - DE - SURFACE CA	20.940.106				\$587,209
TDC - SE - CASING/ WE	20.940.201				\$36,553
<b>Total TDC:</b>					<b>\$670,917</b>
<b>Total Cumulative Well Costs:</b>				<b>\$65,663</b>	<b>\$6,282,594</b>

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/19/2014	75	16989	12 - Run Casing & Cement	12.55	\$65,663	\$6,282,594	\$9,549,553



**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 76****Report Date: 3/20/2014**

Well Name: University 16-17 #1H															
Surface Location: 440 FSEL, 467 FSWL / Bottom Hole Location: 200 FSEL, 467 FSWL - WARD, TX															
Report No:	76	Rpt T. Activity:	27 - Cementing production csg	AFE #:		PBE010314									
Operation Desc:	Cementing			AFE Total:		\$9,549,553									
Spud Date:	1/9/2014	API Code:	4247536593		AFE DHC:		\$3,792,878								
Days from Spud:	70	Rig Supervisor 1:	Benjamin Ducote	318-509-9166	Daily Costs:		\$65,020								
Field Name:	ANTOM (WOLFCA)	Rig Supervisor 2:	Milton Ducote	318-264-5614	This AFE DHC to Date:		\$6,330,264								
Sec/Twn/Rng:	16 / 17 /	Tool Pusher:	James Walker	( ) -	This AFE CWC to Date:		\$6,330,264								
Start Depth(ft):	16989	Formation:	Wolfcamp		Total Project Costs:		\$6,330,264								
Ending Depth(ft):	16989	RKB to MSL:	2690	RKB to THF:	0	Total w/ Assoc AFEs:		\$6,330,264							
TVD:	11668	RKB to LMF:	0	RKB to CHF:	0	Daily Mud Costs:		\$3,412							
Rig Company:	Precision Drilling	24 Hr. Footage:	0	Develop To:	0	Cum Mud Costs:		\$742,170							
Rig Name:	Precision Drilling	Location Survey:	103.18076	//	31.57898	Section 16	Abstract:		A-U55						
24-Hour Summary/Remarks: Ran 4.5" Liner to 16989' and Cement.															
Next Day Operations: Set packer and test. Displace hole with 2% KCL. Lay down drill pipe															
Weather Summary: None															
Weather															
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks										
6:00		0.00	Clear	44	None										
Surveys															
Survey No.	Survey Date	Tie In	Meas. Depth	Inclination	Azimuth	Des Azi	TVD	Vert Sect	N/S(+/-)	E/W(+/-)	DLS				
159	3/16/2014	<input type="checkbox"/>	16835	91.62	165.19	161.00	11673.38	5366.02	-5154.62	1511.89	0.41				
160	3/16/2014	<input type="checkbox"/>	16916	92.13	165.92	161.00	11670.73	5446.72	-5233.02	1532.09	1.10				
161	3/16/2014	<input type="checkbox"/>	16989	92.13	165.92	161.00	11668.02	5519.40	-5303.78	1549.83	0.00				
Casing															
Type	Date Run	Casing Top	Set Depth	Size	Weight	Grade	Drift	Hole Size	TD	Shoe Test					
Surface	1/14/2014	25.00	4902.68	9.625	40.00	N-80	8.835	12.250	4905.00	10.58					
Stage	Reciprocate	<input type="checkbox"/>	Bump Plug	<input checked="" type="checkbox"/>	Fluid Returns			<input checked="" type="checkbox"/>	Cement Top						
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined				
1	0	<input type="checkbox"/>	1400	<input checked="" type="checkbox"/>	Circulate 117 bbl cement to surface				0	2468	Calculated				
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0														
No.2	Lead, 0, 896, C 35/65 + 6% Bentonite+.2% C-20+.4% FL-15+.25% AF-41P+.25% cello-flake+5% salt, Class C, 2.11, 12.4														
No.3	Tail, 0, 384, C + .2% R-20+.4% FL-15+.25% AF-41P, Class C, 1.33, 14.8														
No.4	Displacement, 369, 0, Brine water, , 0, 0														
Stage	Reciprocate	<input type="checkbox"/>	Bump Plug	<input checked="" type="checkbox"/>	Fluid Returns			<input checked="" type="checkbox"/>	Cement Top						
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined				
2	0	<input type="checkbox"/>	2200	<input checked="" type="checkbox"/>	Circulate 50bbl cement to surface				0	0	Circulated				
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0														
No.2	Lead, 0, 1091, C + 4% Bentonite + .25% AF-41P, Class C, 1.72, 13.5														
No.3	Tail, 0, 363, C + .25% AF-41P, Class C, 1.33, 14.8														
No.4	Displacement, 187, 0, Brine Water, , 0, 0														
Intermediate	1/27/2014	25.00	10567.15	7.000	32.00	P-110	6.094	8.750	10572.00						
Stage	Reciprocate	<input type="checkbox"/>	Bump Plug	<input checked="" type="checkbox"/>	Fluid Returns			<input checked="" type="checkbox"/>	Cement Top						
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined				
1	0	<input type="checkbox"/>	1300	<input type="checkbox"/>	circ 50bbls cement back to sur. thr Dv tool				50	5292	Circulated				
No.1	Lead, 0, 630, 35/6+6% Bentonite .5% FI-16+0.5% R-20+0.25% AF-41P+.02%CD-35+.25% Cello-flake+.5%salt, Class H, 2.01, 12.6														
No.2	Tail, 0, 130, 50/50+2%Bentonite+.4%R-20+.25%AF-41P+0.25#Cell-Flake+5%Salt, Class H, 1.3, 14.2														
Stage	Reciprocate	<input type="checkbox"/>	Bump Plug	<input checked="" type="checkbox"/>	Fluid Returns			<input checked="" type="checkbox"/>	Cement Top						
	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined				
2	0	<input type="checkbox"/>	1100	<input checked="" type="checkbox"/>	Cement was starting to come back when bump				1	0	Circulated				
No.1	Lead, 0, 370, 35/65+6% Bentonite+.04%R-20+.25%AF-41P+0.25%AF-41P+.25#Cello Flake+0.2%CdD-35+5%Salt, Class C, 2.1, 12.4														
No.2	Tail, 0, 210, 50/50+0.2%R-20+0.25%AF-41P+0.1%CD-35+2.0%Benonite+0.25#Cello Flake+5% Salt, Class C, 1.3, 14.2														
Pipe on Rack	2/19/2014	10363.00	17030.00	4.500	15.10	P-110		6.000	17034.00						
Pipe on Rack	2/22/2014	10359.32	16989.00	4.500	15.10	P-110		6.000	16989.00						
BOP Test and Inspection Dates															
Last BOP Test:		2/20/2014		Days Since BOP Tested:		28		Last Inspection:		3/8/2014					
Last BOP Drill Date:		3/16/2014		BOP Test Due:		3/12/2014									
Mud Properties															
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
16989	3:00	12.45	12.30	58	22	18	7/8/	3.3	14.0	1	2.00	22.0%	75.0%	3.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Lost	
3.5	8.80	0.80	0.20	5.20	38000	600	0	0.00	0.16	0	0	0.00	4/96		
Water Lost	LCM	ECD	FL Temp	Remarks											
0	0.0	13.3	0	Maintaining 1500ppm Bio-cide in the active system. Cumulative Losses: 1770bbl mud. Clear Fluid Percentage : 11% Beads 2%											

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/20/2014	76	16989	27 - Cementing production csg	12.45	\$65,020	\$6,330,264	\$9,549,553

**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 76**  
**Report Date: 3/20/2014**

Well Name: University 16-17 #1H																	
Hours Summary ( Daily / Cumulative )																	
Drilling	0.00 / 616	Rotating	0.00 / 741	Trips	12.00 / 445	Circulating	1.50 / 107	Down	0.00 / 18	Other	10.50 / 513						
Operations																	
Start	Hrs	Code	Remarks								Start Depth	End Depth	Run				
6:00	0.50	07	Lubricate Rig								16989	16989	NIH				
6:30	4.00	12	Run 4.5" casing and rig down casing crew.								16989	16989	NIH				
10:30	12.00	06	TIH with drill pipe T/16989' Washed and reamed the last 1600".								16989	16989	NIH				
22:30	2.00	21	Pump ball down and set liner hanger pressured up to 2100 psi to set and sheard bolt at 3000 psi.								16989	16989	NIH				
0:30	1.50	05	Circ. B/U while held a safety meeting with cementers and start to rig up.								16989	16989	NIH				
2:00	0.50	27	Rig up cementers and test lines to 5000 psi								16989	16989	NIH				
2:30	3.50	27	Pump 20bbls Gel spacer, 138bbls of 14.4lbs. Cement, clean lines, drop plug, and displace 186 bbls of 2% KCL. Bump plug 1000 over, float held								16989	16989	NIH				
Total:	24.00																
Drilling Data																	
Hook Load:	195	Pick Up:	280	Slack Off:	165	Over Pull:	85										
ROP:	0.00	Pres on Bot:		Press Off Bot:		Kickoff Depth:	11190										
WOB:		Rotary RPM:		Motor RPM:		Torque:											
BHA Hours:	0.00	Crew Status:	On	Remarks:	None.												
Daily Bits																	
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq
9	8	2/12/2014	6	Smith	XR30T	PY8828	10878	11005	127	127	3.00	6.00	21.2			0	0
Date Out		Jets	18 / 18 / 18 / 0 / 0 / 0 / 0	TFA	0.75	Char (I/O/D/O/L/B/G/R)	/ / / / / / /										
Mud Motors																	
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM		
6	5	Pathfinder				8 3.8 Stage .279 r/g 2.12d				127	127	3	3.0	229	64		
Drilling Assembly																	
Component	Qty	Length	OD Avg	ID Avg	Tot Length	Remarks											
Bit - Insert - Tri-Cone	1	0.75	6.000	1.500	0.75	Smith XR30T SN:PY8828											
Motor	1	22.89	5.000	1.500	23.64	Pathfinder SN 4187											
Sub - Float	1	3.14	4.750	2.250	26.78	Pathfinder											
Sub - Orienting	1	3.87	4.750	2.250	30.65	Pathfinder											
Monel	1	30.04	4.750	2.250	60.69	Pathfinder											
Other	1	4.00	4.750	2.250	64.69	Pathfinder Flow Sleeve Sub											
Monel	1	30.18	4.750	2.250	94.87	Pathfinder											
Sub - XO	1	3.10	4.750	2.250	97.97	Thomas Tools											
HWDP	21	641.61	4.880	2.375	739.58	Thomas Tools											
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq
13	12	2/24/2014	6	Hallibur	MM64D	1228331	14175	14254	0	0	0.00	0.00	0.0			0	0
Date Out		Jets	14 / 14 / 14 / 14 / 15 / 15 / 0 / 0	TFA	0.94	Char (I/O/D/O/L/B/G/R)	/ / / / / / /										
Mud Motors																	
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM		
10	4.75	NOV				7/8 3.8 Stage .56 RPG Str.				0	0	0	0.0	239	134		
Drilling Assembly																	
Component	Qty	Length	OD Avg	ID Avg	Tot Length	Remarks											
Bit - PDC - Fixed Cutter	1	0.75	6.000	1.250	0.75	Halliburton MM64D 12283316											
Other	1	14.61	5.875	3.640	15.36	SLB PD 475X5 CA 5-3/4" Stabilized											
Sub - Orienting	1	3.39	4.750	2.250	18.75	UBHO SLB 475AU05											
Other	1	7.20	4.940	2.750	25.95	CLPS SLB CC 4005											
Monel	1	30.04	4.750	2.250	55.99	MWD DR 18858											
Other	1	5.00	4.750	2.250	60.99	Flow Sleeve DR 20765											
Stab - IB	1	5.49	5.750	2.250	66.48	DR 19072											
Sub - Filter	1	3.04	4.750	2.250	69.52	DR 22499											
Sub - XO	1	2.03	4.690	1.500	71.55	PxP X-O DR 23700											
Motor	1	23.98	5.880	3.750	95.53	NOV 500-36-300											
Stab - IB	1	4.60	5.880	2.250	100.13	DR 14001											
Sub - XO	1	3.51	5.130	2.438	103.64	DR 10261											
Mud Pumps																	
Pump No	Model	Liner Size	Stroke	Max PSI	Max SPM	SPM	GPM	Press.	Slow Pump Rates/Pres.								
1	FD-1600	5.5	12	4250	120	55	193	1800	20/	30/	40/						
2	FD-1600	5.5	12	4250	120				20/	30/	40/						
Mud Added																	
Item	Qty	Units	Item	Qty	Units	Item	Qty	Units									
Diesel	1194	gal															
Inventory																	
Item	Units	Beg Inv	Received	Used	Lost	Transfrd	End Inv										
Barite (Bulk)	tons	33	0	0	0	0	33										
Diesel	gal	4999	0	1194	0	0	3805										

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/20/2014	76	16989	27 - Cementing production csg	12.45	\$65,020	\$6,330,264	\$9,549,553



# Energen Resources Corp.

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

Report No: 76  
Report Date: 3/20/2014

Well Name: University 16-17 #1H							
Personnel Data							
Company	Service	Qty.	Hours	Company	Service	Qty.	Hours
Mud Masters Group	MUD ENGINEER	2	24.00	New Prospect Company	CO MAN	2	24.00
Precision Drilling	Rig Crews	11	132.00	Schlumberger	Directional	5	60.00
Suttles	MUD LOGGERS	1	24.00				
<b>Totals</b>		<b>21.00</b>	<b>264.00</b>				
Health Safety and Environment							
Type	Date	Activity	Company Name	Personnel	Lost Time	First Aid	Med Visit
Drilling	3/19/2014		Precision	Crew and 3rd party	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Running Liner							
Daily Cost Details							
IDC	Code	Vendor	Remarks	Daily Exp	Cum Exp		
IDC - COMPANY LABOR	20.950.010				\$1,387		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Drilling Superintendent	\$550	\$361,000		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Rig Site Supervision	\$3,300	\$361,000		
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Project Engineer	\$900	\$361,000		
IDC - ROAD & SITE CON	20.950.030				\$144,276		
IDC - FIELD OFFICE	20.950.040	Pason Systems USA Co	EDR, PVT System	\$765	\$126,630		
IDC - RIGHT OF WAY &	20.950.060				\$35,000		
IDC - PERMITS SURVEY	20.950.080				\$15,000		
IDC - DRILL - BIT & STA	20.950.101	Halliburton Drill Bits	6" FX64D sn12003485	\$4,138	\$126,211		
IDC - DRILL - CEMENT &	20.950.102				\$42,251		
IDC - DRILL - CONTRAC	20.950.103	Precision Drill	Rig 594 and Crew	\$24,000	\$1,824,000		
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	2 Mud Engineer + Mud Cost	\$3,412	\$742,170		
IDC - DRILL - EQUIPMEN	20.950.105	Cosi Energy, LLC	Run 7000' Casing	\$12,550	\$48,756		
IDC - DRILL - EQUIPMEN	20.950.105	Cosi Energy, LLC	Ran 7000' of casing Torque Tur	\$8,150	\$48,756		
IDC - DRILL - FUEL POW	20.950.106				\$331,431		
IDC - DRILL - HAULING	20.950.107				\$58,224		
IDC - DRILL - FLUIDS	20.950.108				\$67,970		
IDC - DRILL - DIRECTIO	20.950.109				\$737,113		
IDC - DRILL - GAS/AIR U	20.950.110				\$12,330		
IDC - DRILL - MOBDEMO	20.950.111				\$181,962		
IDC - DRILL - FISHING/SI	20.950.112				\$30,619		
IDC - DRILL - DOWNHOL	20.950.113				\$109,415		
IDC - DRILL - SURFACE	20.950.114				\$267,455		
IDC - LOGGING	20.950.150				\$130,376		
IDC - F&C - CEMENT & S	20.950.201				\$35,724		
IDC - F&C - SPECIAL SE	20.950.206	Cole Enterprises	Thread rep	\$7,255	\$50,123		
<b>Total IDC:</b>				<b>\$65,020</b>	<b>\$5,659,347</b>		
TDC	Code	Vendor	Remarks	Daily Exp	Cum Exp		
TDC - DE - CONDUCTO	20.940.101				\$1,725		
TDC - DE - PRODUCTIO	20.940.104				\$45,430		
TDC - DE - SURFACE CA	20.940.106				\$587,209		
TDC - SE - CASING/ WE	20.940.201				\$36,553		
<b>Total TDC:</b>					<b>\$670,917</b>		
<b>Total Cumulative Well Costs:</b>				<b>\$65,020</b>	<b>\$6,330,264</b>		

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/20/2014	76	16989	27 - Cementing production csg	12.45	\$65,020	\$6,330,264	\$9,549,553

**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 77****Report Date: 3/21/2014**

Well Name: University 16-17 #1H											
Surface Location: 440 FSEL, 467 FSWL / Bottom Hole Location: 200 FSEL, 467 FSWL - WARD, TX											
Report No:	77	Rpt T. Activity:	21 - Other			AFE #:	PBE010314				
Operation Desc:	Rigging Down 3rd party equipment					AFE Total:	\$9,549,553				
Spud Date:	1/9/2014	API Code:	4247536593			AFE DHC:	\$3,792,878				
Days from Spud:	71	Rig Supervisor 1:	Benjamin Ducote	318-509-9166		Daily Costs:	\$334,628				
Field Name:	ANTOM (WOLFCA)	Rig Supervisor 2:	Milton Ducote	318-264-5614		This AFE DHC to Date:	\$6,665,892				
Sec/Twn/Rng:	16 / 17 /	Tool Pusher:	James Walker	( ) -		This AFE CWC to Date:	\$6,665,892				
Start Depth(ft):	16989	Formation:				Total Project Costs:	\$6,665,892				
Ending Depth(ft):	16989	RKB to MSL:	2690	RKB to THF:	0	Total w/ Assoc AFEs:	\$6,665,892				
TVD:	0	RKB to LMF:	0	RKB to CHF:	0	Daily Mud Costs:	\$12,262				
Rig Company:	Precision Drilling	24 Hr. Footage:	0	Develop To:	0	Cum Mud Costs:	\$754,432				
Rig Name:	Precision Drilling	Location Survey:	103.18076	// 31.57898 Section 16		Abstract:	A-U55				
24-Hour Summary/Remarks: Contacted TRRC @ 08:00 Tested packer to 2000 psi (test good). L/D drill pipe and nipples down BOPS. Installed tubing head and test seal to 4000 psi.											
Next Day Operations: Clean tanks and rig down 3rd party equipment.											
Weather Summary: None											
Weather											
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks						
6:00	0	0.00	Clear	38	None						
Surveys											
Survey No.	Survey Date	Tie In	Meas. Depth	Inclination	Azimuth	Des Azi	TVD	Vert Sect	N/S(+/-)	E/W(+/-)	DLS
159	3/16/2014	<input type="checkbox"/>	16835	91.62	165.19	161.00	11673.38	5366.02	-5154.62	1511.89	0.41
160	3/16/2014	<input type="checkbox"/>	16916	92.13	165.92	161.00	11670.73	5446.72	-5233.02	1532.09	1.10
161	3/16/2014	<input type="checkbox"/>	16989	92.13	165.92	161.00	11668.02	5519.40	-5303.78	1549.83	0.00
Casing											
Type	Date Run	Casing Top	Set Depth	Size	Weight	Grade	Drift	Hole Size	TD	Shoe Test	
Surface	1/14/2014	25.00	4902.68	9.625	40.00	N-80	8.835	12.250	4905.00	10.58	
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1400	<input checked="" type="checkbox"/>	Circulate 117 bbl cement to surface				0	2468	Calculated
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0										
No.2	Lead, 0, 896, C 35/65 + 6% Bentonite+.2% C-20+.4% FL-15+.25% AF-41P+.25% cello-flake+5% salt, Class C, 2.11, 12.4										
No.3	Tail, 0, 384, C + .2% R-20+.4% FL-15+.25% AF-41P, Class C, 1.33, 14.8										
No.4	Displacement, 369, 0, Brine water, , 0, 0										
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	2200	<input checked="" type="checkbox"/>	Circulate 50bbl cement to surface				0	0	Circulated
No.1	Spacer, 20, 0, Fresh Water Spacer, , 0, 0										
No.2	Lead, 0, 1091, C + 4% Bentonite + .25% AF-41P, Class C, 1.72, 13.5										
No.3	Tail, 0, 363, C + .25% AF-41P, Class C, 1.33, 14.8										
No.4	Displacement, 187, 0, Brine Water, , 0, 0										
Intermediate	1/27/2014	25.00	10567.15	7.000	32.00	P-110	6.094	8.750	10572.00		
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1300	<input type="checkbox"/>	circ 50bbls cement back to sur. thr Dv tool				50	5292	Circulated
No.1	Lead, 0, 630, 35/6+6% Bentonite .5% FI-16+0.5% R-20+0.25% AF-41P+.02%CD-35+.25% Cello-flake+.5%salt, Class H, 2.01, 12.6										
No.2	Tail, 0, 130, 50/50+2%Bentonite+.4%R-20+.25%AF-41P+0.25#Cell-Flake+5%Salt, Class H, 1.3, 14.2										
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
2	0	<input type="checkbox"/>	1100	<input checked="" type="checkbox"/>	Cement was starting to come back when bump				1	0	Circulated
No.1	Lead, 0, 370, 35/65+6% Bentonite+.04%R-20+.25%AF-41P+.025%AF-41P+.25#Cello Flake+0.2%CD-35+5%Salt, Class C, 2.1, 12.4										
No.2	Tail, 0, 210, 50/50+0.2%R-20+0.25%AF-41P+0.1%CD-35+2.0%Benonite+0.25#Cello Flake+5% Salt, Class C, 1.3, 14.2										
Pipe on Rack	2/19/2014	10363.00	17030.00	4.500	15.10	P-110		6.000	17034.00		
Production	3/19/2014	10358.00	16989.24	4.500	15.10	P-110	3.826	6.000	16989.00		
Reciprocate <input type="checkbox"/> Bump Plug <input checked="" type="checkbox"/> Fluid Returns <input checked="" type="checkbox"/> Cement Top											
Stage	Distance	Rotate	Pressure	Hold	Description			Fill%	Circ.Vol	ft.	Determined
1	0	<input type="checkbox"/>	1000	<input checked="" type="checkbox"/>	Full returns entire job				0	10358	Calculated
No.1	Spacer, 20, 0, Gel spacer, , 0, 0										
No.2	Lead, 0, 610, Halad-344, 50lb, super cbl, Kol-Seal, Hr-800, Vera Cem, 1.27, 14.4										
No.3	Displacement, 20, 0, 20bbls Sugar water, , 0, 0										
No.4	Displacement, 198, 0, 2% KCL, , 0, 0										
BOP Test and Inspection Dates											
Last BOP Test:	2/20/2014	Days Since BOP Tested:	29	Last Inspection:	3/8/2014						
Last BOP Drill Date:	3/16/2014	BOP Test Due:	3/12/2014								

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/21/2014	77	16989	21 - Other		\$334,628	\$6,665,892	\$9,549,553

**Energen Resources Corp.**605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005**Drilling Report****Report No: 77**  
**Report Date: 3/21/2014**

Well Name: University 16-17 #1H																							
Mud Properties																							
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand								
//																							
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Lost									
Water Lost	LCM	ECD	FL Temp																				
Remarks																							
Transferred 1600bbls of Mud to frac tank																							
Hours Summary ( Daily / Cumulative )																							
Drilling	0.00 / 616	Rotating	0.00 / 741	Trips	0.00 / 445	Circulating	0.00 / 107	Down	0.00 / 18	Other	24.00 / 537												
Operations																							
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run								
6:00	1.00	TC	Test packer to 2000 psi, Test good.										16989	16989	NIH								
7:00	1.00	12	Rig down Cement tools										16989	16989	NIH								
8:00	10.00	25	L/D 4" Dp										16989	16989	NIH								
18:00	1.00	07	Lubricate Rig										16989	16989	NIH								
19:00	0.50	21	Flush through T/D, mixing pumps and choke.										16989	16989	NIH								
19:30	6.50	28	Pull 4" Rams out and install 5" Rams. Nipple Down flow line, hyd lines, hcr valve. Hook up BOP lift & lift stack										16989	16989	NIH								
2:00	2.00	28	Install Tubing head and night cap on well head and test to 4000 psi.										16989	16989	NIH								
4:00	2.00	21	Rig down 3rd party equipment and cleaning on rig.										16989	16989	NIH								
Total:	24.00																						
Drilling Data																							
Hook Load:	0		Pick Up:	0		Slack Off:	0		Over Pull:	0													
ROP:	0.00		Pres on Bot:			Press Off Bot:			Kickoff Depth:	11190													
WOB:			Rotary RPM:			Motor RPM:	0		Torque:														
BHA Hours:	0.00		Crew Status:	On		Remarks:	None.																
Daily Bits																							
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq						
9	8	2/12/2014	6	Smith	XR30T	PY8828	10878	11005	127	127	3.00	6.00	21.2			0	0						
Date Out			Jets	18 / 18 / 18 / 0 / 0 / 0 / 0 / 0														TFA	0.75	Char (I/O/D/O/L/B/G/R)	/ / / / / / / /		
Mud Motors																							
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM								
6	5	Pathfinder				8 3.8 Stage .279 r/g 2.12de				127	127	3	3.0	229	64								
Drilling Assembly																							
Component			Qty	Length	OD Avg	ID Avg	Tot Length	Remarks															
Bit - Insert - Tri-Cone			1	0.75	6.000	1.500	0.75	Smith XR30T SN:PY8828															
Motor			1	22.89	5.000	1.500	23.64	Pathfinder SN 4187															
Sub - Float			1	3.14	4.750	2.250	26.78	Pathfinder															
Sub - Orienting			1	3.87	4.750	2.250	30.65	Pathfinder															
Monel			1	30.04	4.750	2.250	60.69	Pathfinder															
Other			1	4.00	4.750	2.250	64.69	Pathfinder Flow Sleeve Sub															
Monel			1	30.18	4.750	2.250	94.87	Pathfinder															
Sub - XO			1	3.10	4.750	2.250	97.97	Thomas Tools															
HWDP			21	641.61	4.880	2.375	739.58	Thomas Tools															
BHA	Bit	Date In	Size	Manufac.	Type	Serial No.	In	Out	Ftg	Tot Ftg	Hrs	Tot Hrs	ROP	WOB	RPM	MRPM	Torq						
13	12	2/24/2014	6	Hallibur	MM64D	1228331	14175	14254	0	0	0.00	0.00	0.0			0	0						
Date Out			Jets	14 / 14 / 14 / 14 / 15 / 15 / 0 / 0														TFA	0.94	Char (I/O/D/O/L/B/G/R)	/ / / / / / / /		
Mud Motors																							
Motor	Size	Brand				Type				Ftg	Cum Ftg	Hrs	Cum Hrs	GPM	MRPM								
10	4.75	NOV				7/8 3.8 Stage .56 RPG Str.				0	0	0	0.0	239	134								
Drilling Assembly																							
Component			Qty	Length	OD Avg	ID Avg	Tot Length	Remarks															
Bit - PDC - Fixed Cutter			1	0.75	6.000	1.250	0.75	Halliburton MM64D 12283316															
Other			1	14.61	5.875	3.640	15.36	SLB PD 475X5 CA 5-3/4" Stabilized															
Sub - Orienting			1	3.39	4.750	2.250	18.75	UBHO SLB 475AU05															
Other			1	7.20	4.940	2.750	25.95	CLPS SLB CC 4005															
Monel			1	30.04	4.750	2.250	55.99	MWD DR 18858															
Other			1	5.00	4.750	2.250	60.99	Flow Sleeve DR 20765															
Stab - IB			1	5.49	5.750	2.250	66.48	DR 19072															
Sub - Filter			1	3.04	4.750	2.250	69.52	DR 22499															
Sub - XO			1	2.03	4.690	1.500	71.55	PxP X-O DR 23700															
Motor			1	23.98	5.880	3.750	95.53	NOV 500-36-300															
Stab - IB			1	4.60	5.880	2.250	100.13	DR 14001															
Sub - XO			1	3.51	5.130	2.438	103.64	DR 10261															
Mud Pumps																							
Pump No	Model	Liner Size	Stroke	Max PSI	Max SPM	SPM	GPM	Press.	Slow Pump Rates/Pres.														
1	FD-1600	6	12	4250	120				20/	30/	40/												
2	FD-1600	5.5	12	4250	120				20/	30/	40/												

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/21/2014	77	16989	21 - Other		\$334,628	\$6,665,892	\$9,549,553



# Energen Resources Corp.

605 Richard Arrington Blvd.  
Birmingham, AL 35205  
(800) 292-4005

## Drilling Report

Report No: 77  
Report Date: 3/21/2014

Well Name: University 16-17 #1H									
Mud Added									
Item	Qty	Units	Item	Qty	Units	Item	Qty	Units	
Diesel	648	gal							
Inventory									
Item	Units	Beg Inv	Received	Used	Lost	Transfrd	End Inv		
Barite (Bulk)	tons	33	0	0	0	0	33		
Diesel	gal	3805	0	648	0	0	3157		
Personnel Data									
Company	Service	Qty.	Hours	Company	Service	Qty.	Hours		
Mud Masters Group	MUD ENGINEER	2	24.00	New Prospect Company	CO MAN	2	24.00		
Precision Drilling	Rig Crews	11	132.00						
Totals		15.00	180.00						
Health Safety and Environment									
Type	Date	Activity	Company Name	Personnel	Lost Time	First Aid	Med Visit		
Drilling	3/20/2014		Precision	Crew	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
L/D DP, N/D Bops.									
Daily Cost Details									
IDC	Code	Vendor	Remarks	Daily Exp	Cum Exp				
IDC - COMPANY LABOR	20.950.010				\$1,387				
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Rig Site Supervision	\$3,300	\$365,750				
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Project Engineer	\$900	\$365,750				
IDC - COMPANY SUPER	20.950.020	New Prospect Company	Drilling Superintendent	\$550	\$365,750				
IDC - ROAD & SITE CON	20.950.030				\$144,276				
IDC - FIELD OFFICE	20.950.040	Pason Systems USA Co	EDR, PVT System	\$765	\$129,679				
IDC - FIELD OFFICE	20.950.040	NOV	Work Station 2/1/14-3/15/14	\$2,284	\$129,679				
IDC - RIGHT OF WAY &	20.950.060				\$35,000				
IDC - PERMITS SURVEY	20.950.080				\$15,000				
IDC - DRILL - BIT & STA	20.950.101				\$126,211				
IDC - DRILL - CEMENT &	20.950.102				\$42,251				
IDC - DRILL - CONTRAC	20.950.103	Precision Drill	Rig 594 and Crew	\$24,000	\$1,848,000				
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	Delivery charge	\$691	\$754,432				
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	Delivery charge	\$1,158	\$754,432				
IDC - DRILL - MUD & CH	20.950.104	Mud Master	Delivery charge	\$2,650	\$754,432				
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	Delivery charge	\$4,200	\$754,432				
IDC - DRILL - MUD & CH	20.950.104	Mud Masters	2 Mud Engineer + Mud Cost	\$3,564	\$754,432				
IDC - DRILL - EQUIPMEN	20.950.105				\$49,756				
IDC - DRILL - FUEL POW	20.950.106				\$331,431				
IDC - DRILL - HAULING	20.950.107				\$58,224				
IDC - DRILL - FLUIDS	20.950.108				\$67,970				
IDC - DRILL - DIRECTIO	20.950.109				\$737,113				
IDC - DRILL - GAS/AIR U	20.950.110				\$12,330				
IDC - DRILL - MOBDEMO	20.950.111				\$181,962				
IDC - DRILL - FISHING/SI	20.950.112				\$30,619				
IDC - DRILL - DOWNHOL	20.950.113				\$109,415				
IDC - DRILL - SURFACE	20.950.114				\$267,455				
IDC - LOGGING	20.950.150				\$130,376				
IDC - F&C - CEMENT & S	20.950.201				\$35,724				
IDC - F&C - SPECIAL SE	20.950.206	Monahans Nipple-Up	Nipple Down BOPS	\$3,300	\$53,423				
Total IDC:				\$47,361	\$5,707,708				
TDC	Code	Vendor	Remarks	Daily Exp	Cum Exp				
TDC - DE - CONDUCTO	20.940.101				\$1,725				
TDC - DE - PRODUCTIO	20.940.104	Halliburton	Cement Production liner	\$55,086	\$330,472				
TDC - DE - PRODUCTIO	20.940.104	Mike Jordan Company	6723' 4.5" TCPC 15.1# P-110 L	\$137,822	\$330,472				
TDC - DE - PRODUCTIO	20.940.104	Schlumberger	RDV Valve and hand	\$21,231	\$330,472				
TDC - DE - PRODUCTIO	20.940.104	Schlumberger	Liner hanger and hand	\$70,903	\$330,472				
TDC - DE - SURFACE CA	20.940.106				\$587,209				
TDC - SE - CASING/ WE	20.940.201	WEIR	Install tubing head	\$2,225	\$38,778				
Total TDC:				\$287,267	\$958,184				
Total Cumulative Well Costs:				\$334,628	\$6,665,892				

Date	Report No	Depth	Report Time Activity	MW	Daily Costs	Cum Costs	AFE
3/21/2014	77	16989	21 - Other		\$334,628	\$6,665,892	\$9,549,553





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date : 3/29/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: Continuing to prepare location for frac and MIRU Frac associated equipment for upcoming frac .SICP = 4,265 PSI. Surface Csg = 0 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 3/30/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: Continuing to prepare location for frac and MIRU Frac associated equipment for upcoming frac .SICP = 4,265 PSI. Surface Csg = 0 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date : 3/31/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: Continuing preparations for upcoming Frac scheduled for 4/06/14. Monitoring Wellhead Pressures. SICP = 4,259 psi, 9.625" = 0 psi, Surface Csg = 165 psi. 0800 hrs: Fesco on Location to Remove FESCO Spar Tech Precision Gauges. 0930 hrs: RU J-W Slickline Lubricator on top of frac stack. 0935 hrs: RU/SL and MU two (tandem) Electronic Pressure Gauges. 0945 hrs: SICP= 4,246 Opened well slowly and stayed in Lubricator 10 minutes. RIH to 500' SLM and stop there for 5 minutes. Continue RIH and stopped every 500' for 5 minutes to get a Gradient Reading. 1218 hrs: RIH to 11,840' SLM +/- 60 Degrees for a 10 Minute Reading. POOH 0100 hrs: OOH, stayed in Lubricator 10 minutes , Closed Well 1405 hrs: SL Supervisor download and check the Gauges. Gauge had 100% data stored, RD SL. 1420 hrs: RD/MO J-W SL 0600 hrs: Continuing to MI & RU Frac Associated Equipment .			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date :** 4/2/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: Continuing preparations for upcoming Frac scheduled for 4/06/14. Monitoring Wellhead Pressures. SICP = 4,259 psi, 9.625" = 0 psi, Surface Csg = 165 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date :** 4/3/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs: Continuing preparations for upcoming Frac scheduled for 4/06/14. Monitoring Wellhead Pressures. SICP = 4,179 psi, 9.625" = 0 psi, Surface Csg = 165 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/8/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	10.00	PERF/ Plug and Perforate Stage # 2 (CTU) 0600 hrs: Held safety meeting. SICP = 4,100 psi. PU 4 ½" DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Composite Bridge Plug. (10k/300) 2.75" OD Gun, EXP-3321-421-T, 21 gram charges, EHD = 0.43", TPP = 36. Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 0630 hrs: Started RIH with CTU with Plug and Perf assembly. RIH @ 75 ft/min @ 2,350 psi. 0905 hrs: Tagged RDV @16,909'. Pulled up to 16,898'. Set DRI CFP @ 16,898'. Continued perforating formation 16,667'-669', 16,730-'732', 16,793-'795',16,856'-858'. 48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight 63,000. 1300 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fire 0200 hrs-0530 hrs = Hammer NPT = 3.5 hrs. Waiting for release valve for set tool. 1300 hrs- 1400 hrs= Redzone NPT = 1 hr. Could not release lubricator.			
16:00	8.00	Frac/ Frac Stage # 2 1615 hrs: Pressure tested lines to 9,800 psi. Good test. 1625 hrs: Frac Stage # 2 (16,667' to 16,858'). 1626 hrs: SICP = 2,350 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 10 BPM with 8,448 PSI. Pumped gallons 5000 of 15% HCL Acid @ 10 BPM with 9,200 PSI. Formation broke down with 9,179 PSI. @ 15 BPM. With 50% acid In perfs, shut down for 30 minutes for ISIP. Pre-Frac ISIP = 6,960 PSI. Frac Gradient = 1.03 PSI/FT. 1800 hrs: Started pumping Frac per job design. 2100 hrs: Shut Down Pumps. Avg rate = 59.5 BPM. Avg pressure = 9,034 psi. Max rate = 73.2 BPM. Max pressure = 9,511 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,232 PSI. Frac gradient = .882 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.50 PPG. Total 100 Mesh = 69,774 lbs, Total 40/70 Premium White Proppant = 178,069 lbs. Avg. HHP = 13,180. Total load to recover = 451,712 bbls. NOTES: Stage pumped as per design.			
0:00	6.00	PERF/ Plug and Perforate Stage # 3 (CTU) 0005 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 5,280 psi. PU 4 ½" DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 0015 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,103'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +22'). Started pump down at 11,467'. Pumping 11 BPM with 5,781 PSI. Total PD fluid 264 bbls, Set DRI CFP @ 16,638'. Continued perforating formation 16,415-'417', 16,478-'480', 16,541-'543',16,604-'606' 48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,550 lbs. 0415 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired. 0600 hrs: Preparing to Frac stage 3.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	

Date : 4/9/2014



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/9/2014

Operations		
Start	Hrs	Category/Remarks
6:00	2.00	<p>Frac/ 0600 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>0640 hrs: Frac Stage # 3 (16,415' to 16,606'). Dropped 1.687" Frac Ball.</p> <p>0641 hrs: SICP = 4,691 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 5,890 PSI. Pumped 5,000 gallons 15 HCL Acid @ 20 BPM with 6,780 PSI. Formation broke down with 6,349 PSI. @ 15 BPM. With 50% acid In perms, shut down for 5 minutes for ISIP. Pre-Frac ISIP = 5,452 PSI. Frac Gradient = .901 PSI/FT.</p> <p>0713 hrs: Started pumping Frac per job design.</p> <p>0750 hrs: Shut Down Pumps. Avg rate = 69.1 BPM. Avg pressure = 8,872 psi. Max rate = 76.4 BPM. Max pressure = 9,495 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,380 PSI. Frac gradient = .895 psi/ft. Pumped 5,000 gallons 15 HCL. Sand concentrations ranged from .25 PPG to 1.5 PPG. Total 100 Mesh 70,001 lbs, Total 40/70 Premium White Proppant = 180,739 lbs. Avg. HHP = 15,022 Total load to recover = 10,208 bbls. NOTES: Stage pumped as per design.</p>
8:00	4.00	<p>PERF/ Plug and Perforate Stage # 4</p> <p>0755 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 9,500 PSI. Good test. SICP = 5,290 psi. PU 4 1/2" DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>0805 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,136'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +30'). Started pump down at 11,250'. Pumping 12 BPM with 5,714 PSI. Total PD fluid 361 bbls,</p> <p>Set DRI CFP @ 16,386'. Continued perforating formation 16,163'-165', 16,226'-228', 16,289'-291', 16,352- 354. ( 48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,750 lbs.</p> <p>1130 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
12:00	4.00	<p>Frac/ Frac Stage # 4</p> <p>1155 hrs: Pressure tested lines to 9,800 ps</p> <p>1210 hrs: Frac Stage # 4 16,163' to 16,354'). Dropped 1.687" Frac Ball.</p> <p>1215 hrs: SICP = 4,715 PSI. Opened well. Started Pumping 8,300 Gallons of Slick Water @ 20 BPM with 6,530 PSI. Pumped 5,000 gallons 15 HCL Acid @ 20 BPM with 5,420 PSI. Observed no pressure decrease when frac ball landed on plug. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,032 PSI. Frac Gradient = .865 PSI/FT.</p> <p>1300 hrs: Started pumping Frac per job design.</p> <p>1530 hrs: Shut Down Pumps. Avg rate = 64 BPM. Avg pressure = 8,163 psi. Max rate = 77.6 BPM. Max pressure = 9,646 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,113 PSI. Frac gradient = .872 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.5 PPG. Total 100 Mesh = 69,481 lbs, Total 40/70 Premium White Proppant = 178,999 lbs. Avg. HHP = 12,777. Total load to recover = 10,377 bbls. NOTES: Stage pumped as per design.</p>
16:00	3.50	<p>PERF/ Plug and Perforate Stage # 5</p> <p>1600 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 5,100 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1605 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,120'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 00'). Started pump down at 11,207'. Pumping 12 BPM with 5,263 PSI. Total PD fluid 353 bbls,</p> <p>Set DRI CFP @ 11,134'. Continued perforating formation 15,911'- 913', 15,974'-976', 16,037'-039', 16,100' - 102'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,624 lbs.</p> <p>1845 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
19:30	3.00	<p>Frac/ Frac Stage # 5</p> <p>1930 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>1935 hrs: Frac Stage # 5 (15,911' to 16,102'). Dropped 1.687" Frac Ball.</p> <p>1940 hrs: SICP = 4,700 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 8,150 PSI. Pumped 5,000 gallons 15% HCL Acid @ 17 BPM with 7,200 PSI. Formation broke down with 7,285 PSI. @ 17 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,007 PSI. Frac Gradient = .863 PSI/FT.</p> <p>2005 hrs: Started pumping Frac per job design.</p> <p>2222 hrs: Shut Down Pumps. Avg rate = 88.5 BPM. Avg pressure = 9,086 psi. Max rate = 89.9 BPM. Max pressure = 9,534 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,421 PSI. Frac gradient = .863 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.5 PPG. Total 100 Mesh = 70,081 lbs, Total 40/70 Premium White Proppant = 180,489 lbs. Avg. HHP = 19,710. Total load to recover = 10,256 bbls. NOTES: Stage pumped as per design.</p>





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

**Date :** 4/9/2014

22:30	3.00	PERF/ Plug and Perforate Stage # 6 2240 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 5,400 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 2245 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,100'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 4'). Started pump down at 11,200'. Pumping 12 BPM with 5,563 PSI. Total PD fluid 235 bbls, Set DRI CFP @ 15,882'. Continued perforating formation 15,659'-661', 15,722'-724', 15,785'-787', 15,848' – 850'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,545 lbs. 0115 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
1:30	4.50	Frac/ Frac Stage # 6 0130 hrs: Pressure tested lines to 9,800 psi. Good test. 0133 hrs: Frac Stage # 6 (15,659' to 15,850'). Dropped 1.687" Frac Ball. 0136 hrs: SICP = 4,800 PSI. Opened well. Started Pumping 17,000 Gallons of Slick Water @ 20 BPM with 6,276 PSI. Pumped 5,000 gallons 15 HCL Acid @ 20 BPM with 7,640 PSI. Formation broke down with 6,075 PSI. @ 15 BPM. With 50% acid In perfs, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,157 PSI. Frac Gradient = .87 PSI/FT. 0158 hrs: Started pumping Frac per job design. 0410 hrs: Shut Down Pumps. Avg rate = 86 BPM. Avg pressure = 9,041 psi. Max rate = 87.9 BPM. Max pressure = 9,486 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,389 PSI. Frac gradient = .895 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.54 PPG. Total 100 Mesh 70,094 lbs, Total 40/70 Premium White Proppant = 181,298 lbs. Avg. HHP = 19,967 Total load to recover = 9,900 bbls. NOTES: Stage pumped as per design. 0600 hrs: Prepare to Plug and Perforate Stage # 7.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	

**Date :**        **4/10/2014**



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/10/2014

Operations		
Start	Hrs	Category/Remarks
6:00	1.00	<p>PERF/ Plug and Perforate Stage # 7</p> <p>0600 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 9,500 PSI. Good test. SICP = 3,240 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>0610 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,123'. Correlated to CBL Short Jt @ 11,066'. (WL correction = + 8'). Started pump down at 11,294'. Pumping 12.2 BPM with 5,918 PSI. Total PD fluid 252 bbls, Set DRI CFP @ 15,630'. Continued perforating formation 15,407'- 409', 15,470'- 472', 15,533'- 535', 15,596'- 598'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,622 lbs.</p> <p>0645 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
7:00	3.50	<p>Frac/ Frac Stage # 7</p> <p>0700 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>0710 hrs: Frac Stage # 7 (15,407' to 15,598'). Dropped 1.687" Frac Ball.</p> <p>0710 hrs: SICP = 4,112 PSI. Opened well. Started Pumping 16,000 Gallons of Slick Water @ 20 BPM with 6,009 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 6,696 PSI. Formation broke down with 7,279 PSI. @ 15 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,406 PSI. Frac Gradient = .897 PSI/FT.</p> <p>0730 hrs: Started pumping Frac per job design.</p> <p>0930 hrs: Shut Down Pumps. Avg rate = 82.9 BPM. Avg pressure = 8,886 psi. Max rate = 86.5 BPM. Max pressure = 9,228 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,154 PSI. Frac gradient = .875 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.55 PPG. Total 100 Mesh 69,691 lbs, Total 40/70 Premium White Proppant = 181,564 lbs. Avg. HHP = 18,041 Total load to recover = 10,378 bbls. NOTES: Stage pumped as per design.</p>
10:30	3.00	<p>PERF/ Plug and Perforate Stage # 8</p> <p>1030 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 9,000 PSI. Good test. SICP = 4,456 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1050 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,091'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +4'). Started pump down at 11,200'. Pumping 12 BPM with 6,001 PSI. Total PD fluid 239 bbls, Set DRI CFP @ 15,378'. Continued perforating formation 15,155'-157', 15,218'-220', 15,281'-283', 15,344'-346'. 48 holes). Casing pressure unchan5ged. POOH with guns. Pick Up Weight = 1,453 lbs.</p> <p>1315 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
13:30	3.42	<p>Frac/ Frac Stage # 8</p> <p>1338 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>1339 hrs: Frac Stage # 8 (15,155' to 15,346'). Dropped 1.687" Frac Ball.</p> <p>1340 hrs: SICP = 4,670 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 8,500 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 8,420 PSI. Formation broke down with 7,350 PSI. @ 22 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,293 PSI. Frac Gradient = .887 PSI/FT.</p> <p>1408 hrs: Started pumping Frac per job design.</p> <p>1615 hrs: Shut Down Pumps. Avg rate = 83 BPM. Avg pressure = 8,587 psi. Max rate = 86 BPM. Max pressure = 9,216 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,614 PSI. Frac gradient = .915 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.50 PPG. Total 100 Mesh =70,279 lbs, Total 40/70 Premium White Proppant = 180,076 lbs. Avg. HHP = 17,451. Total load to recover = 10,221 bbls. NOTES: Stage pumped as per design.</p>
16:55	4.08	<p>PERF/ Plug and Perforate Stage # 9</p> <p>1655 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 5,000 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1700 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,100'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 4'). Started pump down at 11,200'. Pumping 12 BPM with 6,270 PSI. Total PD fluid 213 bbls, Set DRI CFP @ 15,126'. Continued perforating formation 14,903'-905', 14,966'-968', 15,029'-031', 15,092' - 094'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,500 lbs.</p> <p>1930 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

## Wellwork AFE Daily Report

Date : 4/10/2014

21:00	3.00	Frac/ Frac Stage # 9			
		2105 hrs: Pressure tested lines to 9,800 psi. Good test. 2115 hrs: Frac Stage # 9 (14,903' to 15,094'). Dropped 1.687" Frac Ball. 2120 hrs: SICP = 4,520 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 4,800 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 4,875 PSI. Formation broke down with 7,232 PSI. @ 13 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,878 PSI. Frac Gradient = .94 PSI/FT. 2140 hrs: Started pumping Frac per job design. 2345 hrs: Shut Down Pumps. Avg rate = 75 BPM. Avg pressure = 8,884 psi. Max rate = 88.5 BPM. Max pressure = 9,490 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,310 PSI. Frac gradient = .889 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.50 PPG. Total 100 Mesh =67,915 lbs, Total 40/70 Premium White Proppant = 253,486 lbs. Avg. HHP = 16,413. Total load to recover = 9,719 bbls. NOTES: Stage pumped as per design. 1 ½ hrs. NPT HES Working on pumps.			
0:00	2.50	PERF/ Plug and Perforate Stage # 10			
		0010 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 5,600 PSI. Good test. SICP = 4,700 psi. PU 4 ½" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 0015 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,113'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +2'). Started pump down at 11,290'. Pumping 12 BPM with 5,754 PSI. Total PD fluid 177 bbls, Set DRI CFP @ 14,874'. Continued perforating formation 14,651'-653', 14,714'-716', 14,777'-779', 14,840'- 842'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,498 lbs. 0215 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
2:30	3.50	Frac/ Frac Stage # 10			
		0225 hrs: Pressure tested lines to 9,800 psi. Good test. 0230 hrs: Frac Stage # 10 (14,651' to 14,842'). Dropped 1.687" Frac Ball. 0232 hrs: SICP = 4,567 PSI. Opened well. Started Pumping 8,379 Gallons of Slick Water @ 20 BPM with 7,248 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 7,270 PSI. Formation broke down with 8,065 PSI. @ 14.2 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,660 PSI. Frac Gradient = .919 PSI/FT. 0257 hrs: Started pumping Frac per job design. 0505 hrs: Shut Down Pumps. Avg rate = 76.6 BPM. Avg pressure = 8,658 psi. Max rate = 90.8 BPM. Max pressure = 9,548 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,173 PSI. Frac gradient = .877 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.61 PPG. Total 100 Mesh 72,431 lbs, Total 40/70 Premium White Proppant = 174,683 lbs. Avg. HHP = 16,245 Total load to recover = 9,778 bbls. NOTES: Stage pumped as per design. 0600 hrs: Prepare to Plug and Perforate Stage # 11.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	

**Date :**        **4/11/2014**



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/11/2014

Operations		
Start	Hrs	Category/Remarks
6:00	1.50	<p>PERF/ Plug and Perforate Stage # 11</p> <p>HES CUM NPT = 6.5 HOURS</p> <p>0600 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 9,800 PSI. Good test. SICP = 4,620 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>0605 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,080'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +3.9'). Started pump down at 11,260'. Pumping 12 BPM with 5,120 PSI. Total PD fluid 150 bbls,</p> <p>Set DRI CFP @ 14,622'. Continued perforating formation 14,399'-401', 14,462'-464', 14,525'-527', 14,588'- 590'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,500 lbs.</p> <p>0720 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
6:00	5.50	<p>Frac/ Frac Stage # 11</p> <p>0750 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>0800 hrs: Frac Stage # 11 (14,399' to 14,590'). Dropped 1.687" Frac Ball.</p> <p>0810 hrs: SICP = 4,485 PSI. Opened well. Started Pumping 7,449 Gallons of Slick Water @ 20 BPM with 6,476 PSI. Pumped 5,000 gallons 15 HCL Acid @ 20 BPM with 6,720 PSI. Formation broke down with 7,010 PSI. @ 15 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,254 PSI. Frac Gradient = .88 PSI/FT.</p> <p>0845 hrs: Started pumping Frac per job design.</p> <p>1105 hrs: Shut Down Pumps. Avg rate = 76 BPM. Avg pressure = 8,180 psi. Max rate = 81 BPM. Max pressure = 9,505 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,198 PSI. Frac gradient = .87 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.46 PPG. Total 100 Mesh =69,897 lbs, Total 40/70 Premium White Proppant = 180,283 lbs. Avg. HHP = 15,343. Total load to recover = 10,315 bbls. NOTES: Stage pumped as per design.</p>
11:30	2.58	<p>PERF/ Plug and Perforate Stage # 12</p> <p>1120 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 7,000 PSI. Good test. SICP = 5,105 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1205 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,080'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 12'). Started pump down at 11,200'. Pumping 12 BPM with 5,123 PSI. Total PD fluid 178 bbls,</p> <p>Set DRI CFP @ 14,370'. Continued perforating formation 14,147'-49', 14,210'-12', 14,273'-75', 14,336'-38' (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,456 lbs.</p> <p>1355 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
14:05	2.92	<p>Frac/ Frac Stage # 12</p> <p>1405 hrs: Pressure tested lines to 9,700 psi. Good test.</p> <p>1410 hrs: Frac Stage # 12 (14,147' to 14,338'). Dropped 1.687" Frac Ball.</p> <p>1420 hrs: SICP =4,487 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 6,835 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 6,978 PSI. Formation broke down with 6,940 PSI. @ 12 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,121 PSI. Frac Gradient = .87 PSI/FT.</p> <p>1445 hrs: Started pumping Frac per job design.</p> <p>1602 hrs: Shut Down Pumps. Avg rate = 79.03 BPM. Avg pressure = 8,510 psi. Max rate = 80.6 BPM. Max pressure = 9,020 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,186 PSI. Frac gradient = .878 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .24 PPG to 1.5 PPG. Total 100 Mesh 69,995 lbs, Total 40/70 Premium White Proppant = 176,307 lbs. Avg. HHP = 16,599 Total load to recover = 9863.43 bbls. NOTES: Stage pumped as per design.</p>
17:00	2.50	<p>PERF/ Plug and Perforate Stage # 13</p> <p>1700 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 8,000 PSI. Good test. SICP = 4,670 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1711 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,181'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +10'). Started pump down at 11,250'. Pumping 12 BPM with 5,902 PSI. Total PD fluid 164 bbls,</p> <p>Set DRI CFP @ 14,118'. Continued perforating formation 13,895'- 897', 13,958'-960', 14,021'-023', 14,084' -086'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,500 lbs.</p>



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

**Date :** 4/11/2014

19:30	3.50	Frac/ Frac Stage # 13 1940 hrs: Pressure tested lines to 9,800 psi. Good test. 1950 hrs: Frac Stage # 13 ( 13,895' to 14,086'). Dropped 1.687" Frac Ball. 1955 hrs: SICP = 4,643 PSI. Opened well. Started Pumping 1,110 Gallons of Slick Water @ 20 BPM with 7,484 PSI. Pumped 5000 gallons 15 HCL Acid @ 20 BPM with 7,458 PSI. Formation broke down with 7,325 PSI. @ 12.3 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,588 PSI. Frac Gradient = .91 PSI/FT. 2025 hrs: Started pumping Frac per job design. 2140 hrs: Shut Down Pumps. Avg rate = 81.92 BPM. Avg pressure = 8,618 psi. Max rate = 90.8 BPM. Max pressure = 9,551 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,171 PSI. Frac gradient = .877 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.63 PPG. Total 100 Mesh 70,271 lbs, Total 40/70 Premium White Proppant = 179,889 lbs. Avg. HHP = 17,300 Total load to recover = 9,773 bbls. NOTES: Stage pumped as per design.			
23:00	2.50	PERF/ Plug and Perforate Stage # 14 2250 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 8,000 PSI. Good test. SICP = 5,020 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 2310 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,114'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +8'). Started pump down at 11,205'. Pumping 12 BPM with 5,274 PSI. Total PD fluid 111 bbls, Set DRI CFP @ 13,866'. Continued perforating formation 13,643'-645', 13,706'-708', 13,769'-771', 13,832'- 834'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 13,615 lbs. 0105 hrs: OOHV Perforating Assembly. Plug Set. All Shots Fired.			
1:30	3.00	Frac/ Frac Stage # 14 0120 hrs: Pressure tested lines to 9,800 psi. Good test. 0125 hrs: Frac Stage # 14 13,643' to 13,834'). Dropped 1.687" Frac Ball. 0127 hrs: SICP = 4,658 PSI. Opened well. Started Pumping 4,663 Gallons of Slick Water @ 20 BPM with 7,137 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 6,922 PSI. Formation broke down with 7,525 PSI. @ 12 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,145 PSI. Frac Gradient = .87 PSI/FT. 0155 hrs: Started pumping Frac per job design. 0300 hrs: Water transfer pump went down. Finished 100 mesh stage. Over flushed well and shut down. Shut in well. SICP 4,737 psi. Waiting on water transfer to install another pump. 0400 hrs: Water transfer back on line. Open well @ 4,630 psi. Established rate. Continued frac. 0525 hrs: Shut Down Pumps. Avg rate = 82.6 BPM. Avg pressure = 8,711 psi. Max rate = 91.5 BPM. Max pressure = 9,304 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,234 PSI. Frac gradient = .82 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.50 PPG. Total 100 Mesh 74,284 lbs, Total 40/70 Premium White Proppant = 173,487 lbs. Avg. HHP = 17,623 Total load to recover = 9,711 bbls. NOTES: Stage pumped as per design. NPT = 1 hr. Blazer Water Transfer. 0600 hrs: Waiting on Water.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Clear	70	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/12/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PERF/ Plug and Perforate Stage # 15			
		0630 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 9,000 PSI. Good test. SICP = 5,240 psi. PU 4 ½" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes			
		0700 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,130'. Correlated to CBL Short Jt @ 11,066'. (WL correction = +8'). Started pump down at 11,200'. Pumping 12 BPM with 5,200 PSI. Total PD fluid 101 bbls, Set DRI CFP @ 13,614'. Continued perforating formation 13,391'-393', 13,454'-456', 13,517'-519',13,580'-582'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,500 lbs.			
		0805 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
		1000 hrs: SD till AM, Continue filling Frac pit.			
		0600 hrs, Continue filling pit with water			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	

Date : 4/13/2014



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/13/2014

Operations		
Start	Hrs	Category/Remarks
6:00	4.50	<p>Frac/ 0600 hrs: Continue filling Frac Pit</p> <p>0700 hrs: Pressure tested lines to 9,500 psi. Good test.</p> <p>0730 hrs: Frac Stage # 15 (13,391' to 13,582'). Dropped 1.687" Frac Ball.</p> <p>0740 hrs: SICP = 2,833 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 7,592 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 7,682 PSI. Formation broke down with 8,617 PSI. @ 12 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,600 PSI. Frac Gradient = .93 PSI/FT.</p> <p>0815 hrs: Started pumping Frac per job design.</p> <p>1035 hrs: Shut Down Pumps. Avg rate = 75 BPM. Avg pressure = 8,230 psi. Max rate = 90 BPM. Max pressure = 9,378 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,014 PSI. Frac gradient = .86 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.49 PPG. Total 100 Mesh =69,653 lbs, Total 40/70 Premium White Proppant = 184,474 lbs. Avg. HHP = 15,203. Total load to recover = 10,125 bbls. NOTES: Stage pumped as per design.</p>
10:30	3.00	<p>PERF/ Plug and Perforate Stage # 16</p> <p>1040 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 4,780 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1120 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,120'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 4'). Started pump down at 11,100'. Pumping 12 BPM with 5,216 PSI. Total PD fluid 106 bbls, Set DRI CFP @ 13,362'. Continued perforating formation 13,139'-41', 13,454'-56', 13,517'-19', 13,328'-30 (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,306 lbs.</p> <p>1335 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
13:30	3.50	<p>Frac/ Frac Stage # 16</p> <p>1330 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>1345 hrs: Frac Stage # 16 (13,139' to 13,330'). Dropped 1.687" Frac Ball.</p> <p>1348 hrs: SICP = 4,371 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 6,367 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 6,345 PSI. Formation broke down with 7,088 PSI. @ 12 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,373 PSI. Frac Gradient = .89 PSI/FT.</p> <p>1420 hrs: Started pumping Frac per job design.</p> <p>1640 hrs: Shut Down Pumps. Avg rate = 80 BPM. Avg pressure = 8,201 psi. Max rate = 85 BPM. Max pressure = 9,062 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,466 PSI. Frac gradient = .90 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.67 PPG. Total 100 Mesh =75,349 lbs, Total 40/70 Premium White Proppant = 248,445 lbs. Avg. HHP = 16,069. Total load to recover = 9,870 bbls. NOTES: Stage pumped as per design.</p>
17:00	2.50	<p>PERF/ Plug and Perforate Stage # 17</p> <p>1645 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 4,970 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes</p> <p>1659 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,195'. Correlated to CBL Short Jt @ 11,066'. (WL correction = - 8.5'). Started pump down at 11,250'. Pumping 12 BPM with 5,240 PSI. Total PD fluid 92 bbls, Set DRI CFP @ 13,110'. Continued perforating formation 12,887'-889', 12,950'-952', 13,013'-015', 13,076'-078'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,366 lbs.</p> <p>1900 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.</p>
19:30	3.00	<p>Frac/ Frac Stage # 17</p> <p>1930 hrs: Pressure tested lines to 9,800 psi. Good test.</p> <p>1935 hrs: Frac Stage # 17 12,887' to 13,078'). Dropped 1.687" Frac Ball.</p> <p>1937 hrs: SICP = 4,520 PSI. Opened well. Started Pumping 3,872 Gallons of Slick Water @ 20 BPM with 6,010 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 6,070 PSI. Formation broke down with 6,585 PSI. @ 15 BPM. With 50% acid In perms, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 2,969 PSI. Frac Gradient = .86 PSI/FT.</p> <p>2010 hrs: Started pumping Frac per job design.</p> <p>2146 hrs: Shut Down Pumps. Avg rate = 80.3 BPM. Avg pressure = 7,334 psi. Max rate = 89.3 BPM. Max pressure = 8,651 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,214 PSI. Frac gradient = .88 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.69 PPG. Total 100 Mesh 83,270 lbs, Total 40/70 Premium White Proppant = 169,495 lbs. Avg. HHP = 14,466 Total load to recover = 9,929 bbls. NOTES: Stage pumped as per design. Failed to maintain rate (90 BPM) due to HES HHP issues. 4 pumps failed.</p>



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

**Date : 4/13/2014**

22:30	2.00	PERF/ Plug and Perforate Stage # 18 2240 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 8,000 PSI. Good test. SICP = 4,620 psi. PU 4 1/2" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 2245 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,106'. Correlated to CBL Short Jt @ 11,066'. (WL correction = (+7')). Started pump down at 11,251'. Pumping 12 BPM with 5,310 PSI. Total PD fluid 63 bbls, Set DRI CFP @ 12,858'. Continued perforating formation 12,635'-637', 12,698'-700', 12,761'-763', 12,824'-826'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,261 lbs. 2400 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
0:30	5.50	Frac/ Frac Stage # 18 0030 hrs: Pressure tested lines to 9,800 psi. Good test. 0035 hrs: Frac Stage # 18 12,635' to 12,826'). Dropped 1.687" Frac Ball. 0044 hrs: SICP = 4,576 PSI. Opened well. Started Pumping 1,910 Gallons of Slick Water @ 20 BPM with 6,989 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 7,249 PSI. Formation broke down with 7,276 PSI. @ 12 BPM. With 50% acid In perfs, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,200 PSI. Frac Gradient = .88 PSI/FT. 0117 hrs: Started pumping Frac per job design. 0320 hrs: Shut Down Pumps. Avg rate = 88.8 BPM. Avg pressure = 8,247 psi. Max rate = 90.7 BPM. Max pressure = 8,616 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 4,833 PSI. Frac gradient = .84 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.51 PPG. Total 100 Mesh 72,298 lbs, Total 40/70 Premium White Proppant = 168,149 lbs. Avg. HHP = 17,946 Total load to recover = 9,885 bbls. NOTES: Stage pumped as per design. 0600 hrs: Prepare to RIH with Plug and Perf assembly.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/14/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	1.00	PERF/ Plug and Perforate Stage # 19			
		0600 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 8,000 PSI. Good test. SICP = 3,920 psi. PU 4 ½" 15.1# DRI Logistics ECPF- Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 0630 hrs: Prepair to RIH with Plug and Perf assembly. Started RIH with Plug and Perf assembly. Stopped @ 11,100'. Correlated to CBL Short Jt @ 11,066'. (WL correction =+9'). Started pump down at 11,218'. Pumping 12 BPM with 5,785 PSI. Total PD fluid 54 bbls, Set DRI CFP @ 12,606'. Continued perforating formation 12,383'-385', 12,446'-448', 12,509'-511',12,572'-574'. (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,220 lbs. 0645 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
7:00	3.00	Frac/ Frac Stage # 19			
		0700 hrs: Working on 3 pumps. 1.5 hrs NPT 0710 hrs: Pressure tested lines to 9,800 psi. Good test. 0715 hrs: Frac Stage # 19 12,383' to 12,574'). Dropped 1.687" Frac Ball. 0718 hrs: SICP = 4,421 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 7,113 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 7,118 PSI. Formation broke down with 7,454 PSI. @ 15 BPM. With 50% acid In perfs, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,570 PSI. Frac Gradient = .91 PSI/FT. 0745 hrs: Started pumping Frac per job design. 1005 hrs: Shut Down Pumps. Avg rate = 72 BPM. Avg pressure = 7,889 psi. Max rate = 83 BPM. Max pressure = 8,879 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,269 PSI. Frac gradient = .88 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.67 PPG. Total 100 Mesh =70,108 lbs, Total 40/70 Premium White Proppant = 181,250 lbs. Avg. HHP = 13,979. Total load to recover = 9,938 bbls. NOTES: Stage pumped as per design.			
10:00	2.50	PERF/ Plug and Perforate Stage # 20			
		1010 hrs: Held safety meeting. Tested flowback manifold and PWR lubricator to 6,000 PSI. Good test. SICP = 4,850 psi. PU 4 ½" 15.1# DRI Logistics ECPF-4400-002 Frac plug (3.44" OD, .75" ID) Flow through Composite (10k/300) 2.75" OD Gun, EXP2818421T, 18 gram RDX Titan charges, EHD = 0.41", TPP = 36 Each cluster to be 6 SPF, 4 - 4' guns with 2' clusters, 60 deg phasing, 12 shots per cluster, 48 holes 1025 hrs: Started RIH with Plug and Perf assembly. Stopped @ 11,150'. Correlated to CBL Short Jt @ 11,066'. (WL correction = 4'). Started pump down at 11,200'. Pumping 12 BPM with 5,120 PSI. Total PD fluid 51 bbls, Set DRI CFP @ 12,354'. Continued perforating formation 12,131'-33', 12,194'-96', 12,257'-59', 12,320'-22' (48 holes). Casing pressure unchanged. POOH with guns. Pick Up Weight = 1,320 lbs. 1230 hrs: OOHW Perforating Assembly. Plug Set. All Shots Fired.			
12:30	3.50	Frac/ Frac Stage # 20			
		1235 hrs: Pressure tested lines to 9,800 psi. Good test. 1240 hrs: Frac Stage # 20 (12,131' to 12,322'). Dropped 1.687" Frac Ball. 1245 hrs: SICP = 4,533 PSI. Opened well. Started Pumping 5,000 Gallons of Slick Water @ 20 BPM with 5,703 PSI. Pumped 5,000 gallons 15% HCL Acid @ 20 BPM with 5,819 PSI. Formation broke down with 5,410 PSI. @ 12 BPM. With 50% acid In perfs, shut down for 2 minutes for ISIP. Pre-Frac ISIP = 5,059 PSI. Frac Gradient = .87 PSI/FT. 1305 hrs: Started pumping Frac per job design. 1515 hrs: Shut Down Pumps. Avg rate = 77 BPM. Avg pressure = 7,623 psi. Max rate = 88 BPM. Max pressure = 9,807 psi. Annulus pressure maintained 0 psi. Post-Frac ISIP = 5,275 PSI. Frac gradient = .88 psi/ft. Pumped 5,000 gallons 15% HCL. Sand concentrations ranged from .25 PPG to 1.50 PPG. Total 100 Mesh =66,870 lbs, Total 40/70 Premium White Proppant = 181,842 lbs. Avg. HHP = 14,479. Total load to recover = 9,919 bbls. NOTES: Stage pumped as per design. HES CUM NPT = 8.00 HOURS			
16:00	7.00	RDMO RIG/ Begin RD HES Frac and Associated Equipment.			
		2235 hrs: Completed RD HES Frac Equipment and Support Equipment. 2240 hrs: Continue preparing location for CTU			
23:00	7.00	MIRU/ 2305 hrs: MIRU CUDD 2" Coil Tubing Unit. Drill-out BHA. A 3.625" x 1.20' JZ Tri-Coned Rock Bit. 2.88" X 13.55' Titian Motor,2.88" x 1.65' XRZ, 2.88" x 1.58' Dual Cir Sub,2.88" x 2.24' Hyd Disconnect, 2.88" x 4.55' HZ Impact jar,2.88" x 1.64' Coil Connector.			
		0205 hrs: Shut Down RU due to very High Winds . 0600 hrs: Waiting on Wind to lay down to Continue RU.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	40.00	Partly Cloudy	70	High Winds

**Date :**           **4/14/2014**



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

## Wellwork AFE Daily Report

Date : 4/15/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	<p>Clean Out/ 0600 hrs: Waiting on Wind to lay down to Continue RU.</p> <p>0830 hrs: Finished rigging up CTU Pressure Testing to 8,500 psi. Pressure test shell to 8,500, CT BOP test to 8,500 psi. Function tested BOP's on deck with dummy. No damage.</p> <p>0850 hrs: SICP = 4,740 PSI. Opened Frac Valves. RIH w/ 2" CT Circulating Treated Fresh Water @ .5 bpm in / .5 bpm out with 4,700 psi Tbg / 4,625 psi WH.</p> <p>1045 hrs: RIHT 11,200'. Increased pump rate to 2.5 bpm returning 2.5 bpm. Pump Pressure = 7,700 psi / Return Pressure = 4,700 psi. Continued RIH washing down.</p> <p>1108 hrs: Tag CFP # 20 @ 12,394' CTM (12,354' ELM). Begin drilling plug @ 2.5 bpm with 7,600 psi Tbg / 4,550 psi WH. Maintained 3.0 bpm Rtns during drill-out. Drilled out plug in 7 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1140 hrs: Tag CFP # 19 @ 12,612' CTM (12,606' ELM). Begin drilling plug @ 2.5 bpm with 8,100 psi Tbg / 4,450 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 15 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1206 hrs: Tag CFP # 18 @ 12,864' CTM (12,858' ELM). Begin drilling plug @ 2.5 bpm with 8,100 psi Tbg / 4,411 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 10 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1240 hrs: Tag CFP # 17 @ 13,103' CTM (13,110' ELM). Begin drilling plug @ 2.5 bpm with 7,900 psi Tbg / 4,100 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 6 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1325 hrs: Tag CFP # 16 at 13,366' (13,362' ELM). Made 3,285' short trip to 10,079'. PU WT 34 k/lbs. POOH pumping 2.5 bpm @ 7,600 psi Tbg / 3,900 psi WH. Travel @ 30 fpm. RIH Re-Tag CFP # 16 at 13,360' CTM (13,362' ELM). Begin drilling plug with 3 k/lbs down. Pumping 2.5 bpm at 7,900 psi Tbg / 3 bpm @ 3,900 psi WH Rtns. CFP # 16 drilled out in 14 mins. Continued RIH washing down pumping 2.5 bpm at 7,575' psi Tbg / 4,050 psi WH.</p> <p>1655 hrs: Tag CFP # 15 @ 13,618' CTM (13,614' ELM). Begin drilling plug @ 2.5 bpm with 7,500 psi Tbg / 3,800 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 17 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1735 hrs: Tag CFP # 14 @ 13,869' CTM (13,866' ELM). Begin drilling plug @ 2.5 bpm with 7,600 psi Tbg / 3,950 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 35 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1845 hrs: Tag CFP # 13 @ 14,120' CTM (14,118' ELM). Begin drilling plug @ 2.5 bpm with 7,350 psi Tbg / 3,850 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 20 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>1935 hrs: Tag CFP # 12 @ 14,373' CTM (14,370' ELM). Begin drilling plug @ 2.5 bpm with 7,435 psi Tbg / 3,950 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 37 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>2020 hrs: Tag CFP # 11 at 14,624' (14,622' ELM). Made 4,543' short trip to 10,079'. PU WT 36 k/lbs. POOH pumping 2.5 bpm @ 8,500 psi Tbg / 3,400 psi WH. Travel @ 35 fpm. RIH Re-Tag CFP # 11 at 14,622' CTM (14,622' ELM). Begin drilling plug with 4 k/lbs down. Pumping 2.5 bpm at 7,100 psi Tbg / 2.5 bpm @ 3,100 psi WH Rtns. CFP # 11 drilled out in 13 mins. Continued RIH washing down pumping 2.5 bpm at 7,300' psi Tbg / 3,400 psi WH.</p> <p>0133 hrs: Tag CFP # 10 @ 14,873' CTM (14,874' ELM). Begin drilling plug @ 2.5 bpm with 7,600 psi Tbg / 3,700 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 58 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>0243 hrs: Tag CFP # 9 @ 15,127' CTM (15,126' ELM). Begin drilling plug @ 2.5 bpm with 8,300 psi Tbg / 3,600 psi WH. Maintained 3 bpm Rtns during drill-out. Drilled out plug in 32 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.</p> <p>0359 hrs: Tag CFP # 8 at 15,375' (15,378' ELM). Made 5,300' short trip to 10,079'. PU WT 37 k/lbs. POOH pumping 2.5 bpm @ 7,950 psi Tbg / 3,850 psi WH. Travel @ 30 fpm.</p> <p>0600 hrs; Continue Drill Operations.</p>			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	NW	10.00	Partly Cloudy	50	



**Date :**        **4/15/2014**



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

Date : 4/16/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	Clean Out/ 0600 hrs: Continue Drill Opertions.			
		0738 hrs: RIH Re-Tag CFP # 7 at 15,367' CTM (15,378' ELM). Begin drilling plug with 5 k/lbs down. Pumping 2.5 bpm at 8,400 psi Tbg / 2.5 bpm @ 3,700 psi WH Rtns. CFP # 8 drilled out in 52 mins. Continued RIH washing down pumping 2.5 bpm at 8,100' psi Tbg / 3,750 psi WH.			
		0915 hrs: Tag CFP # 6 @ 15,633' CTM (15,630' ELM). Begin drilling plug @2.5 bpm with 7,800 psi Tbg / 3,850 psi WH. Maintained 2.5 bpm Rtns during drill-out. Drilled out plug in 55 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.			
		1111 hrs: Tag CFP # 5 @ 15,895' CTM (15,882' ELM). Begin drilling plug @ 2.5 bpm with 7,485 psi Tbg / 3,905 psi WH. Maintained 2.5 bpm Rtns during drill-out. Drilled out plug in 32 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.			
		1231 hrs: Tag CFP # 4 at 16,138' (16,134' ELM). Made 6,100' short trip to 10,069'. PU WT 38 k/lbs. POOH pumping 2.5 bpm @ 7,800 psi Tbg / 3,800 psi WH. Travel @ 30 fpm. RIH Re-Tag CFP # 4 at 16,121' CTM (16,134' ELM). Begin drilling plug with 10 k/lbs down. Pumping 2.5 bpm at 8,200 psi Tbg / 2.5 bpm @ 3,700 psi WH Rtns. CFP # 5 drilled out in 51 mins. Continued RIH washing down pumping 2.5 bpm at 8,400' psi Tbg / 3,750 psi WH			
		1820 hrs: Tag CFP # 3 @ 16,376' CTM (16,386' ELM). Begin drilling plug @ 2.5 bpm with 7,950 psi Tbg / 3,750 psi WH. Maintained 2.5 bpm Rtns during drill-out. Drilled out plug in 71 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.			
		2120 hrs: Tag CFP # 2 at 16,620' (16,638' ELM). Made 6,650' short trip to 10,050'. PU WT 39 k/lbs. POOH pumping 2.5 bpm @ 7,300 psi Tbg / 3,600 psi WH. Travel @ 30 fpm. RIH Re-Tag CFP # 2 at 16,616' CTM (16,386' ELM). Begin drilling plug with 10 k/lbs down. Pumping 2.5 bpm at 7,800 psi Tbg / 2.5 bpm @ 3,650 psi WH Rtns. CFP # 3 drilled out in 22 mins. Continued RIH washing down pumping 2.5 bpm at 7,850' psi Tbg / 3,600 psi WH.			
		0225 hrs: Tag CFP # 1 @ 16,898' CTM (16,898' ELM). Begin drilling plug @ 2.5 bpm with 7,850 psi Tbg / 3,700 psi WH. Maintained 2.5 bpm Rtns during drill-out. Drilled out plug in 84 mins. Dropped 10 bbl MM 115 visc. sweep. Continue RIH washing down.			
		0352 hrs: Tag RDV @ 16,922' CTM (16,938' PM), circulate 20 bbl 100 vis MM sweep, 10 bbl spacer, & a 20 bbl 100 vis MM sweep surface to surface plus 50 bbls.			
		0600hrs: Continue Drill Out Operations			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/17/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs: Continue Drill Out Operations			
		0605 hrs: POOH circulating 2.5 bpm @ 8,100 psi in / 2.5 bpm @ 3,750 psi out, 30 fpm. 1015 hrs: Out of well, LD drill out assembly, RDMO CTU and Equip. RD Hydraulic Frac Valves and accumulator. RD Flowback Plug Catcher and associated equipment. Test flowback equipment / tank connections. 1145 hrs: Closed Well SICP = 4,150 psi. 0600 hrs: SIW monitor well bore, wait to flowback for, Temp flowlines to be run to location 4-7 days..			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	68	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/18/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SIW wait ro run temporary line to flowback well, prepare to continue flowback operations 4-7 days			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

Date : 4/19/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3500 psi, SIW wait ro run temporary line to flowback well, prepare to continue flowback operations, 4-7 days			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/20/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3500 psi, SIW wait ro run temporary line to flowback well, prepare to continue flowback operations, 4-7 days			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/21/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3750 psi, SIW wait ro run temporary line to flowback well, prepare to continue flowback operations,			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/22/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3700psi, SIW wait ro run temporary line to flowback well, prepare to continue flowback operations,			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/23/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3700 psi, SIW wait ro run temporary line to flowback well, prepare to continue flowback operations,			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/24/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ SICP 3700 PSI, SIW continue to wait for temporary Poly line to flowback well, prepare to continue flowback operations,			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	75	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/25/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, SICP 3700 PSI, SIW continue to wait for temporary Poly line to flowback well, prepare to continue flowback operations, 1300 hrs start flowback Ops FCP 3700 psi on 8/64" choke.  0600 Hrs, For the last 17 Hrs, FCP 3800 psi, Recovered 353 Bbls of load water out of 195,652 Total bbls to be recoverd .18% of load Wtr recovered with 195,299 Bbls left to recover. Choke = 8/64" flow to tanks. (Last 24 hrs, 353 Bbls of Wtr, 0 Bbls of Oil, Total Gas = 0 MCF, Flared Gas = 0 MSCFD, Gas to sales = 0 MSCFD), At Present: BWPH = 24 Bbls, BOPH = 0 Bbls , MSCF gas= 0 flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 115,000 PPM SW, Ph 8 , CO2 .0%, H2S 0 ppm, APIG = NA), Recover load water,, Oil sold 0 loads, 0 bbls, oil stored on location= 0 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	75	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/26/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 41 Hrs, FCP 4000 psi, Recovered 1046 Bbls of load water out of 195,652 Total bbls to be recoverd .53% of load Wtr recovered with 194,606 Bbls left to recover. Choke = 12/64" flow to tanks settling pit, pumping water to disposal well. (Last 24 hrs, 692 Bbls of Wtr, 0 Bbls of Oil, Total Gas = 0 MCF, Flared Gas = 0 MSCFD, Gas to sales = 0 MSCFD), At Present: BWPH = 42 Bbls, BOPH = 0 Bbls , MSCF gas= 0 flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .0%, H2S 0 ppm, APIG = NA), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 0 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/27/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 65 Hrs, FCP 4050 psi, Recovered 2813 Bbls of load water out of 195,652 Total bbls to be recoverd .1.44% of load Wtr recovered with 192,839 Bbls left to recover. Choke = 16/64" flow to tanks settling pit, pumping water to disposal well. (Last 24 hrs, 1767 Bbls of Wtr, 0 Bbls of Oil, Total Gas = 0 MCF, Flared Gas = 0 MSCFD, Gas to sales = 0 MSCFD), At Present: BWPH = 105 Bbls, BOPH = 0 Bbls , MSCF gas= 0 flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .0%, H2S 0 ppm, APIG = NA, .1%), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 0 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/28/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 89 Hrs, FCP 4000 psi, Recovered 5208 Bbls of load water out of 195,652 Total bbls to be recoverd 2.66% of load Wtr recovered with 190,444 Bbls left to recover. Choke = 18/64" flow to tanks settling pit, pumping water to disposal well. (Last 24 hrs, 2395 Bbls of Wtr, 275 Bbls of Oil, Total Gas = 307 MCF, Flared Gas = 54 MSCFD, Gas to sales = 253 MSCFD), At Present: BWPH = 105 Bbls, BOPH = 16 Bbls , MSCF gas= 400 flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41, .3% sand), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 0 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/29/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 113 Hrs, FCP 3879 psi, Recovered 7887 Bbls of load water out of 195,652 Total bbls to be recoverd 4.03% of load Wtr recovered with 187,765 Bbls left to recover. Choke = 18/64" flow to tanks settling pit, pumping water to disposal well. (Last 24 hrs, 2679 Bbls of Wtr, 369 Bbls of Oil, Total Gas = 380 MCF, Flared Gas = 0 MSCFD, Gas to sales = 380 MSCFD), At Present: BWPH = 116 Bbls, BOPH = 18 Bbls , MSCF gas= 400 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41, .6% sand), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 500 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/30/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 137 Hrs, FCP 3875 psi, Recovered 10,378 Bbls of load water out of 195,652 Total bbls to be recoverd 5.3% of load Wtr recovered with 185,274 Bbls left to recover. Choke = 18/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2491 Bbls of Wtr, 391 Bbls of Oil, Total Gas = 399 MCF, Flared Gas = 0 MSCFD, Gas to sales = 399 MSCFD), At Present: BWPH = 101 Bbls, BOPH = 16 Bbls , MSCF gas= 432 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41, .3% sand), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 547 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/1/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, For the last 161 Hrs, FCP 3850 psi, Recovered 12,827 Bbls of load water out of 195,652 Total bbls to be recoverd 6.5% of load Wtr recovered with 182,825 Bbls left to recover. Choke = 18/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2449 Bbls of Wtr, 358 Bbls of Oil, Total Gas = 428 MCF, Flared Gas = 0 MSCFD, Gas to sales = 428 MSCFD), At Present: BWPH = 100 Bbls, BOPH = 15 Bbls , MSCF gas= 450 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.4, .3% sand), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 777 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/2/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 185 Hrs, FCP 3700 psi, Recovered 15,422 Bbls of load water out of 195,652 Total bbls to be recovered 7.88% of load Wtr recovered with 180,230 Bbls left to recover. Choke = 20/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2595 Bbls of Wtr, 415 Bbls of Oil, Total Gas = 697 MCF, Flared Gas = 0 MSCFD, Gas to sales = 599 MSCFD), At Present: BWPH = 119 Bbls, BOPH = 25 Bbls , MSCF gas= 929 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.4, .5% sand), Recover load water, Oil sold 0 loads, 0 bbls, oil stored on location= 1038 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/3/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 209 Hrs, FCP 3525 psi, Recovered 18,391 Bbls of load water out of 195,652 Total bbls to be recoverd 9.4% of load Wtr recovered with 177,261 Bbls left to recover. Choke = 26/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2969 Bbls of Wtr, 611 Bbls of Oil, Total Gas = 1124 MCF, Flared Gas = 379 MSCFD, Gas to sales = 745 MSCFD), At Present: BWPH = 119 Bbls, BOPH = 25 Bbls , MSCF gas= 1398 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.4, .3% sand), Recover load water, Oil sold 1 loads, 178 bbls, oil stored on location= 1414 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/4/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 233 Hrs, FCP 3225 psi, Recovered 21,631 Bbls of load water out of 195,652 Total bbls to be recoverd 11% of load Wtr recovered with 174,021 Bbls left to recover. Choke = 28/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3240 Bbls of Wtr, 691 Bbls of Oil, Total Gas = 1545 MCF, Flared Gas = 736 MSCFD, Gas to sales = 809 MSCFD), At Present: BWPH = 120 Bbls, BOPH = 20 Bbls , MSCF gas= 1606 Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM SW, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.2, .5% sand), Recover load water, Oil sold 1 loads, 170 bbls, oil stored on location= 3163 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/5/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 257 Hrs, FCP 2900 psi, Recovered 24,970 Bbls of load water out of 195,652 Total bbls to be recoverd 12.7% of load Wtr recovered with 170,682 Bbls left to recover. Choke = 30/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3339 Bbls of Wtr, 958 Bbls of Oil, Total Gas = 1449 MCF, Flared Gas = 644 MSCFD, Gas to sales = 805 MSCFD), At Present: BWPH = 140 Bbls, BOPH = 45 Bbls , MSCF gas= 1603 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.2, .3% sand), Recover load water, Oil sold 4 loads, 687 bbls, oil stored on location= 3201 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

Date : 5/6/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/7/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 305 Hrs, FCP 2475 psi, Recovered 32,429 Bbls of load water out of 195,652 Total bbls to be recoverd 16.5% of load Wtr recovered with 163,223 Bbls left to recover. Choke = 30/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3892 Bbls of Wtr, 1450 Bbls of Oil, Total Gas = 1528 MCF, Flared Gas = 705 MSCFD, Gas to sales = 823 MSCFD), At Present: BWPH = 161 Bbls, BOPH = 67 Bbls , MSCF gas= 1558 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.2, .4% sand), Recover load water, Oil sold 6 loads, 1116 bbls, oil stored on location= 2338 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Clear	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/9/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 353 Hrs, FCP 2100 psi, Recovered 39,968 Bbbls of load water out of 195,652 Total bbls to be recoverd 20.4% of load Wtr recovered with 155,684 Bbbls left to recover. Choke = 30/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3646 Bbbls of Wtr, 1250 Bbbls of Oil, Total Gas = 1124 MCF, Flared Gas = 179 MSCFD, Gas to sales = 945 MSCFD), At Present: BWPH = 152 Bbbls, BOPH = 52 Bbbls , MSCF gas= 1130 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.2, .3% sand), Recover load water, Oil sold 6 loads, 1050 bbls, oil stored on location= 3013 Bbbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Partly Cloudy	80	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/10/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 377 Hrs, FCP 1925 psi, Recovered 43,568 Bbbls of load water out of 195,652 Total bbls to be recoverd 22.2% of load Wtr recovered with 152,084 Bbbls left to recover. Choke = 30/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3600 Bbbls of Wtr, 1228 Bbbls of Oil, Total Gas = 1235 MCF, Flared Gas = 187 MSCFD, Gas to sales = 1048 MSCFD), At Present: BWPH = 151 Bbbls, BOPH = 49 Bbbls , MSCF gas= 1230 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.2, .3% sand), Recover load water, Oil sold 4 loads, 700 bbls, oil stored on location= 2360 Bbbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Partly Cloudy	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

Date : 5/11/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	2.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/12/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	Clean Out/ 0600 Hrs, for the last 425 Hrs, FCP 1675 Psi, Recovered 50,222 Bbbls of load water out of 195,652 Total bbls to be recoverd 25.6% of load Wtr recovered with 145,430 Bbbls left to recover. Choke = 30/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3272 Bbbls of Wtr, 925 Bbbls of Oil, Total Gas = 1121 MCF, Flared Gas = 37 MSCFD, Gas to sales = 1084 MSCFD), At Present: BWPH = 138 Bbbls, BOPH = 40 Bbbls , MSCF gas= 1053 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.6, .2% sand), Recover load water, Oil sold 4 Loads, 700 Bbbls, oil stored on location= 3779 Bbbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/13/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 449 Hrs, FCP 1550 Psi, Recovered 53,592 Bbls of load water out of 195,652 Total bbls to be recoverd 27.9% of load Wtr recovered with 142,060 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3370 Bbls of Wtr, 969 Bbls of Oil, Total Gas = 1200 MCF, Flared Gas = 383 MSCFD, Gas to sales = 817 MSCFD), At Present: BWPH = 138 Bbls, BOPH = 36 Bbls , MSCF gas= 1212 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.6, .2% sand), Recover load water, Oil sold 4 Loads, 700 Bbls, oil stored on location= 3278 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date :** 5/14/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 Hrs, for the last 473 Hrs, FCP 1425 Psi, Recovered 56,809 Bbls of load water out of 195,652 Total bbls to be recoverd 29% of load Wtr recovered with 138,843 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3217 Bbls of Wtr, 901 Bbls of Oil, Total Gas = 1066 MCF, Flared Gas = 29 MSCFD, Gas to sales = 1037 MSCFD), At Present: BWPH = 136 Bbls, BOPH = 35 Bbls , MSCF gas= 1012 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.6, .2% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 2937 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/15/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 497 Hrs, FCP 1325 Psi, Recovered 59,873 Bbls of load water out of 195,652 Total bbls to be recoverd 30.6% of load Wtr recovered with 135,779 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 3064 Bbls of Wtr, 815 Bbls of Oil, Total Gas = 1012 MCF, Flared Gas = 98 MSCFD, Gas to sales = 914 MSCFD), At Present: BWPH = 132 Bbls, BOPH = 32 Bbls , MSCF gas= 1045 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.6, .2% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 2181 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/16/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 521 Hrs, FCP 1225 Psi, Recovered 62,815 Bbbls of load water out of 195,652 Total bbls to be recoverd 32% of load Wtr recovered with 132,837 Bbbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2942 Bbbls of Wtr, 793 Bbbls of Oil, Total Gas = 906 MCF, Flared Gas = 22 MSCFD, Gas to sales = 884 MSCFD), At Present: BWPH = 121 Bbbls, BOPH = 34 Bbbls , MSCF gas= 953 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 39.7, .2% sand), Recover load water, Oil sold 13 Loads, 1050 Bbbls, oil stored on location= 2181 Bbbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/17/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 545 Hrs, FCP 1175 Psi, Recovered 65,614 Bbbs of load water out of 195,652 Total bbls to be recoverd 33.5% of load Wtr recovered with 130,038 Bbbs left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2799 Bbbs of Wtr, 743 Bbbs of Oil, Total Gas = 851 MCF, Flared Gas = 2 MSCFD, Gas to sales = 849 MSCFD), At Present: BWPH = 111 Bbbs, BOPH = 32 Bbbs , MSCF gas= 837 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.5, .1% sand), Recover load water, Oil sold 4 Loads, 700 Bbbs, oil stored on location= 1682 Bbbs.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	85	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/18/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 569 Hrs, FCP 1100 Psi, Recovered 68,400 Bbls of load water out of 195,652 Total bbls to be recoverd 34.9% of load Wtr recovered with 127,252 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2766 Bbls of Wtr, 749 Bbls of Oil, Total Gas = 939 MCF, Flared Gas = 0 MSCFD, Gas to sales = 939 MSCFD), At Present: BWPH = 123 Bbls, BOPH = 32 Bbls , MSCF gas= 882 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.5, .1% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 1477 Bbls.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/19/2014**

Operations						
Start	Hrs	Category/Remarks				
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 593 Hrs, FCP 1050 Psi, Recovered 71,130 Bbls of load water out of 195,652 Total bbls to be recoverd 36.3% of load Wtr recovered with 124,522 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, hauling and filtering water to disposal well. (Last 24 hrs, 2730 Bbls of Wtr, 739 Bbls of Oil, Total Gas = 965MCF, Flared Gas = 0 MSCFD, Gas to sales = 965 MSCFD), At Present: BWPH = 113 Bbls, BOPH = 30 Bbls , MSCF gas= 909 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 44.2, .1% sand), Recover load water, Oil sold 3 Loads, 525 Bbls, oil stored on location= 1734 Bbls. Disposal pump down hauling water.				
Total :						24.00
Weather						
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks	
12:00	W	4.00	Clear	85		



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date : 5/20/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 617 Hrs, FCP 1000 Psi, Recovered 73,748 Bbbls of load water out of 195,652 Total bbls to be recoverd 37.6% of load Wtr recovered with 121,904 Bbbls left to recover. Choke = 32/64" flow to tanks settling pit, hauling and filtering water to disposal well. (Last 24 hrs,2618 Bbbls of Wtr, 739 Bbbls of Oil, Total Gas = 929 MCF, Flared Gas = 0 MSCFD, Gas to sales = 929 MSCFD), At Present: BWPH = 109 Bbbls, BOPH = 33 Bbbls , MSCF gas= 833 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.5, .1% sand), Recover load water, Oil sold 5 Loads, 875 Bbbls, oil stored on location= 1547 Bbbls. Disposal pump down hauling water.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/21/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 641 Hrs, FCP 1000 Psi, Recovered 76,193 Bbbls of load water out of 195,652 Total bbls to be recoverd 38.9% of load Wtr recovered with 119,459 Bbbls left to recover. Choke = 32/64" flow to tanks settling pit, hauling and filtering water to disposal well. (Last 24 hrs,2445 Bbbls of Wtr, 726 Bbbls of Oil, Total Gas = 856 MCF, Flared Gas = 114 MSCFD, Gas to sales = 742 MSCFD), At Present: BWPH = 101 Bbbls, BOPH = 31 Bbbls , MSCF gas= 879 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.5, .1% sand), Recover load water, Oil sold 4 Loads, 700 Bbbls, oil stored on location= 1266 Bbbls. (Disposal pump down hauling water).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/22/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 665 Hrs, FCP 925 Psi, Recovered 78,613 Bbls of load water out of 195,652 Total bbls to be recoverd 40% of load Wtr recovered with 117,039 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, hauling and filtering water to disposal well. (Last 24 hrs,2420 Bbls of Wtr, 733 Bbls of Oil, Total Gas = 926 MCF, Flared Gas = 0 MSCFD, Gas to sales = 926 MSCFD), At Present: BWPH = 99 Bbls, BOPH = 30 Bbls , MSCF gas= 904 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 10 Loads, 1750 Bbls, oil stored on location= 1076 Bbls. (Disposal pump down hauling water).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/23/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 689Hrs, FCP 900 Psi, Recovered 80,884 Bbbs of load water out of 195,652 Total bbbs to be recoverd 41.3% of load Wtr recovered with 114,768 Bbbs left to recover. Choke = 32/64" flow to tanks settling pit, hauling and filtering water to disposal well. (Last 24 hrs, 2271 Bbbs of Wtr, 644 Bbbs of Oil, Total Gas = 936 MCF, Flared Gas = 0 MSCFD, Gas to sales = 936 MSCFD), At Present: BWPH = 92 Bbbs, BOPH = 22 Bbbs , MSCF gas= 913 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.1, 0% sand), Recover load water, Oil sold 10 Loads, 1750 Bbbs, oil stored on location= 669 Bbbs. (Disposal pump down hauling water).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/24/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 713 Hrs, FCP 875 Psi, Recovered 83,080 Bbls of load water out of 195,652 Total bbls to be recoverd 42.4% of load Wtr recovered with 112,572 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2196 Bbls of Wtr, 577 Bbls of Oil, Total Gas = 900 MCF, Flared Gas = 0 MSCFD, Gas to sales = 900 MSCFD), At Present: BWPH = 93 Bbls, BOPH = 25 Bbls , MSCF gas= 890 MSCFD, Flow to separator and tanks, pump and haul Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.1, 0% sand), Recover load water, Oil sold 0 Loads, 0 Bbls, oil stored on location= 1367 Bbls. (Pumping water to disposal well)).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	7.00	Rain Showers	75	Stormy winds



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/25/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 737 Hrs, FCP 825 Psi, Recovered 85,264 Bbls of load water out of 195,652 Total bbls to be recoverd 43.5% of load Wtr recovered with 110,388 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2184 Bbls of Wtr, 592 Bbls of Oil, Total Gas = 902 MCF, Flared Gas = 0 MSCFD, Gas to sales = 902 MSCFD), At Present: BWPH = 90 Bbls, BOPH = 22 Bbls , MSCF gas= 846 MSCFD, Flow to separator and tanks, pump Wtr to disposal well, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 5 Loads, 875 Bbls, oil stored on location= 1046 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	75	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/26/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 761 Hrs, FCP 800 Psi, Recovered 87,347 Bbls of load water out of 195,652 Total bbls to be recoverd 44.6% of load Wtr recovered with 108,305 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2083 Bbls of Wtr, 597 Bbls of Oil, Total Gas = 867 MCF, Flared Gas = 0 MSCFD, Gas to sales = 867 MSCFD), At Present: BWPH = 91Bbls, BOPH = 24 Bbls , MSCF gas= 864 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 1459 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	75	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/27/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 785 Hrs, FCP 800 Psi, Recovered 89,386 Bbls of load water out of 195,652 Total bbls to be recoverd 45.6% of load Wtr recovered with 106,276 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2029 Bbls of Wtr, 552 Bbls of Oil, Total Gas = 830 MCF, Flared Gas = 0 MSCFD, Gas to sales = 830 MSCFD), At Present: BWPH = 83 Bbls, BOPH = 26 Bbls , MSCF gas= 825 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.1, .1% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 879 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Thunderstorms	75	Stormy weather



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/28/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 809 Hrs, FCP 750 Psi, Recovered 91,404 Bbls of load water out of 195,652 Total bbls to be recoverd 46.7% of load Wtr recovered with 104,248 Bbls left to recover. Choke = 34/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2028 Bbls of Wtr, 522 Bbls of Oil, Total Gas = 842 MCF, Flared Gas = 0 MSCFD, Gas to sales = 842 MSCFD), At Present: BWPH = 87 Bbls, BOPH = 22 Bbls , MSCF gas= 821 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.1, .1% sand), Recover load water, Oil sold 0 Loads, 0 Bbls, oil stored on location= 1638 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/29/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 833 Hrs, FCP 700 Psi, Recovered 93,417 Bbls of load water out of 195,652 Total bbls to be recoverd 47.7% of load Wtr recovered with 102,235 Bbls left to recover. Choke = 34/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 2013 Bbls of Wtr, 529 Bbls of Oil, Total Gas = 855 MCF, Flared Gas = 0 MSCFD, Gas to sales = 855 MSCFD), At Present: BWPH = 84 Bbls, BOPH = 21 Bbls , MSCF gas= 851 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 6 Loads, 1050 Bbls, oil stored on location= 790 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 5/30/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 857 Hrs, FCP 700 Psi, Recovered 95,353 Bbls of load water out of 195,652 Total bbls to be recoverd 48.7% of load Wtr recovered with 100,299 Bbls left to recover. Choke = 34/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 1938 Bbls of Wtr, 513 Bbls of Oil, Total Gas = 836 MCF, Flared Gas = 0 MSCFD, Gas to sales = 836 MSCFD), At Present: BWPH = 78 Bbls, BOPH = 21 Bbls , MSCF gas= 825 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 0 Loads, 0 Bbls, oil stored on location= 1865 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

## Wellwork AFE Daily Report

**Date :** 5/31/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	RUN TBG/ 0600 hrs, for the last 881 Hrs, FCP 700 Psi, Recovered 95,549 Bbls of load water out of 195,652 Total bbls to be recovered 48.80% of load Wtr recovered with 100,103 Bbls left to recover. Choke = 34/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 196 Bbls of Wtr, 59 Bbls of Oil, Total Gas = 85 MCF, Flared Gas = 0 MSCFD, Gas to sales = 85 MSCFD), At Present: BWPH = 80 Bbls, BOPH = 20 Bbls , MSCF gas= 426 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, .1% sand), Recover load water, Oil sold 2 Loads, 350 Bbls, oil stored on location= 1765 Bbls. (Pumping water to disposal well).  0615 hrs: Shut in well. 0730 hrs: SICP = 1,275 psi. MI/RU Capitan Wireline to run Baker Hornet Packer Assembly, a 2.313" X 2.205" ID XN (NOGO) Nipple, and a Rupture Disc (Set @ 2,400 psi Burst). 0830 hrs: Master Valves Leaking , Called Cameron to send Grease unit. 1045 hrs: Greased Both Master Valves. 1545 hrs: WIHW 5.92" OD Gage Ring and Junk Basket to 10,300' ELM. POOH 1705 hrs: WIHW 5.91" OD Baker Hornet Production Packer Assembly and set Packer Assembly @ 10,265' ELM. POOH. 2000 hrs: Bled Casing Pressure to 0 psi. Held @ 0 psi. for 30 Minutes. Packer Holding. RD & MO Capitan Wireline. 2015 hrs: ND Frac Cross and Top Frac Valve. NU Frac Cross onto Bottom Frac Valve. 2200 hrs: NU Weatherford 5M Dual Pipe Rams dressed for 2.875" Tubing. Tied in Accumulator. Function Tested Pipe and Blind Rams. Good Test. SDFN. 0600 hrs: Continue Monitoring Well SICP = 0 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Partly Cloudy	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 6/1/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	RUN TBG/ 0600 hrs: SICP = 0 psi. Held Safety Meeting, Preparing to run Production Tubing. 0615 hrs: MI & RU Key Completion Rig. Offloaded, Racked, & Tallied 328 jts. of 2.875", EUE 8 Rnd, 6.5#, L-80 Production Tubing. 1000 hrs: PU Baker "J" Latch Assembly on 2.875", EUE 8 Rnd, 6.5#, L-80 Production and Began RIH installing GLV's loaded in Conventional Mandrels in string. 1315 hrs: Tubing flowing. Shut well in. Wait on kill truck. Tbg psi 33 lbs. 1445 hrs: MIRU Texas Energy pump truck. RU on tbg. Tbg psi 85 lbs.. Pump 20 bbls FW down tbg @ 2 bpm w/ 100 psi. Bleed off. Tbg .0 psi. 1530 hrs: Continue to RIH w/ production tbg. 1700 hrs: RIH to 8,238' PM ( 258 Jts )W/ 2.875", EUE 8 Rnd, 6.5#, L-80 Production Tubing in hole. 1730 hrs: Closed and Locked in BOP's. Installed TIW Valve, secured all surface lines SDFN. 0600 hrs: Continue Monitoring Well SICP = 0 psi.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	85	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 6/2/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	6.50	RUN TBG/ Ran production tubing to 10,273' latched packer, space out tubing NU wellhead and pump out plug at 3800 psi, continue flowback operations,			
12:30	17.50	FLOW BACK/ 0600 hrs, for the last 929 Hrs, FTP 1150 Psi, Recovered 96,189 Bbbls of load water out of 195,652 Total bbls to be recoverd 49% of load Wtr recovered with 99,463 Bbbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 640 Bbbls of Wtr,247 Bbbls of Oil, Total Gas = 390 MCF, Flared Gas = 0 MSCFD, Gas to sales = 390 MSCFD), At Present: BWPH = 47 Bbbls, BOPH = 27 Bbbls , MSCF gas= 390 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 41.8, 0% sand), Recover load water, Oil sold 2 Loads, 350 Bbbls, oil stored on location= 1286 Bbbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	80	





**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 6/3/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 953 Hrs, FTP 740 Psi, Recovered 98,005 Bbls of load water out of 195,652 Total bbls to be recoverd 50% of load Wtr recovered with 97,647 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 1816 Bbls of Wtr, 820 Bbls of Oil, Total Gas = 968 MCF, Flared Gas = 0 MSCFD, Gas to sales = 968 MSCFD), At Present: BWPH = 82 Bbls, BOPH = 31 Bbls , MSCF gas= 858 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.7, 0% sand), Recover load water, Oil sold 5 Loads, 876 Bbls, oil stored on location= 1411 Bbls. (Pumping water to disposal well).			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date : 6/4/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	FLOW BACK/ 0600 hrs, for the last 477 Hrs, FTP 670 Psi, Recovered 99,886 Bbls of load water out of 195,652 Total bbls to be recoverd 51% of load Wtr recovered with 95,766 Bbls left to recover. Choke = 32/64" flow to tanks settling pit, pumping and filtering water to disposal well. (Last 24 hrs, 1881 Bbls of Wtr, 439 Bbls of Oil, Total Gas = 753 MCF, Flared Gas = 0 MSCFD, Gas to sales = 753 MSCFD), At Present: BWPH = 77 Bbls, BOPH = 17 Bbls , MSCF gas= 709 MSCFD, Flow to separator and tanks, Recovering Frac load water ( last readings, Chlorides 27,000 PPM, Ph 8 , CO2 .5%, H2S 0 ppm, APIG = 40.7, 0% sand), Recover load water, Oil sold 3 Loads, 525 Bbls, oil stored on location= 1180 Bbls. (Pumping water to disposal well). Final Report, released to production.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Partly Cloudy	80	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date :** 4/4/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: Continuing to MI & RU Frac Associated Equipment . Frac scheduled 4-17-14			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

**Date :** 4/5/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: SICP 4200 psi, Continuing to MI & RU Frac Associated Equipment . Frac scheduled this morning 4-5-14			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	4.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

R E S O U R C E S

**Wellwork AFE Daily Report**

Date : 4/6/2014

Operations					
Start	Hrs	Category/Remarks			
6:00	24.00	PREP TO FRAC/ 0600 hrs: SICP 4200 psi, Continuing to MI & RU Frac Associated Equipment . Frac scheduled this morning 4-6-14			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	3.00	Clear	70	



**Energen Resources Corp.**

605 Richard Arrington Blvd.

Birmingham, AL 35205

(800) 292-4005

**R E S O U R C E S**

**Wellwork AFE Daily Report**

**Date : 4/7/2014**

Operations					
Start	Hrs	Category/Remarks			
6:00	5.00	MIRU/ 0600 hrs: Completed MIRU HES Frac Fleet. Held Safety Meeting.			
11:00	19.00	Frac/ Frac Stage # 1 1100 hrs: Pressure tested lines to 9,800 psi. Good test. RDV @ 16,937' Opened 03/27/14 with 9,122 PSI Pump Pressure. ISIP = 6,506 PSI. 1130 hrs: Set Pop off to 9,800 psi 1130 hrs: Still having Computer Problems. HES CUM NPT = 4.75 HOURS 1145 hrs: Frac Stage # 1 1147 hrs: SICP = 4,133 PSI. Opened well. Started Pumping 20,000 Gallons of Slick Water @ 4.5 BPM with 8,834 PSI. Pumped 5,000 gallons 15% HCL Acid @ 4.5 BPM with 9,469 PSI. Formation broke down with 9,469 PSI. @ 4.5 BPM. 1200 hrs: Pumps kicked out due to pressure. 1245 hrs: Started pumping acid down @ .5 BPM @ 8,700 psi. Increased rate to 1 bpm. Well pressured out and kicked out pumps @ 9,700 psi. 1330 hrs: Started pumping acid down @ .5 BPM @ 8,750 psi. 1430 hrs: Shut down. RDMO HES wireline and PWR. Waiting on Redzone CTU, TTS, and Hammer perforation guns. SICP = 6,435 psi. 1830 hrs: MIRU Redzone CTU. Waiting on Hammer Perforation guns to arrive. 0200 hrs: RU perforating assembly. Waiting on Hammer to bring setting tool component. 0600 hrs: Continue RU and RIHW perforating assembly.			
Total :	24.00				
Weather					
Time	Wind Dir	Wind Knots	Sky Conditions	Temp	Remarks
12:00	W	5.00	Clear	70	