Submit To Appropriate District Office
Two Copies
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

HOBBS OCD

Oil Conservation Division
APR 26 2013
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-105
Revised August 1, 2011

1. WELL API NO.
30 025 40701

2. Type of Lease
X STATE ☐ FEE ☐ FED/INDIAN

3. State Oil & Gas Lease No. VB 1392 0003

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

4. Reason for filing:

X **COMPLETION REPORT** (Fill in boxes #1 through #31 for State and Fee wells only)

☐ **C-144 CLOSURE ATTACHMENT** (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)

5. Lease Name or Unit Agreement Name
Bobwhite 12

6. Well Number: 1H

7. Type of Completion:
X NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER

8. Name of Operator
Bluestem Energy Holdings, LLC

9. OGRID 286989

10. Address of Operator
421 West 3rd St., Suite 700, Ft. Worth, TX 76102

11. Pool name or Wildcat
Berry, Bone Spring; North

12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	12	21S	33E		275	North	1491	West	Lea
BH:	N	12	21S	33E		~~230~~ 4885	~~South~~ N	~~1984~~ 2076	West	Lea

13. Date Spudded	14. Date T.D. Reached	15. Date Rig Released	16. Date Completed (Ready to Produce)	17. Elevations (DF and RKB, RT, GR, etc.)
10/03/12	11/14/12	11/15/12	12/16/2012	3777 GL

18. Total Measured Depth of Well	19. Plug Back Measured Depth	20. Was Directional Survey Made?	21. Type Electric and Other Logs Run
15990'	15,966'	Yes	Combined/Borehole Sonic/mudlog

22. Producing Interval(s), of this completion - Top, Bottom, Name
Bone Spring: 11246-15916'

23. **CASING RECORD** (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5#	1771	17 ½	1575 sx	None
9 5/8	40#	5367	12 ¼	1500 sx	None
5 ½	17	15966	8 ¾	2225 sx	None

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)
11,246-15,916' 1008 holes – report attached

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11246-15916	45000 gals 7.5% acid; 3974868 gals frac fluid
	45000 CWT 30-50 mesh white sand

28. **PRODUCTION**

Date First Production	Production Method *(Flowing, gas lift, pumping - Size and type pump)*	Well Status *(Prod. or Shut-in)*
12/16/2012	*Flowing*	*Producing*

Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
2/10/13	24	34/64"		720	490	740	680

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - *(Corr.)*
0	480		720	490	740	43

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
Sales

30. Test Witnessed By

31. List Attachments
Logs, frac report, casing/cement report, frac fluid report

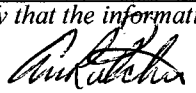
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.

33. If an on-site burial was used at the well, report the exact location of the on-site burial:

Latitude Longitude NAD 1927 1983

MAY 02 2013

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature  Printed Name Ann Ritchie Title Regulatory Date 04/18/2013

E-mail Address ann.wtor@gmail.com

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs_10470	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to..... No. 3, from.....to.....

No. 2, from.....to..... No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology		From	To	Thickness In Feet	Lithology

Bluestem Energy Company
Bob White 12-1H
Lea Co, NM
15 Stage Horizontal
December 4, 2012

Perf / Frac report

JOB DATA

Job Type: 15 Stage Horizontal
Tubing Size: na
Casing Size: 5 1/2" 17# P-110 BTC
Well/Production type: Oil / Gas / Water

Fluid Requirements:		**Fluid for Job**	**Bottoms, Etc.**	**Total Fluid Required**
Fluid 1:	7.5% HCL Acid	45,000 gallons	1,000 gallons	46,000 gallons
Fluid 2:	AmBorMax 1017 (17# X-Linked Gelled Water)	2,970,000 gallons		2,970,000 gallons
Fluid 3:	AmBorMax 1017 (17# X-Linked Gelled Wate w/ B-3L)	288,000 gallons		288,000 gallons
Fluid 4:	Fresh Water	671,868 gallons		671,868 gallons

Proppant Requirements:

Code:	
833050	30-50 mesh White Sand, Area 1 — 45,000 CWT

ZONE DATA

Zone	Zone Name	Perf Interval Top	Perf Interval Bottom	# of Perfs	Perf Dia.	Frac Gradient	Closure Pressure	Bottom Hole °F	Porosity (%)	Permeability (md)	Frac Height	Estimated Treating PSI	Maximum Allowable PSI
1	Bone Springs - Stage 1	15,729	15,916	66	0.42	0.8	7,468	160	na	na	na	7,000	8,500
2	Bone Springs - Stage 2	15,426	15,608	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
3	Bone Springs - Stage 3	15,126	15,308	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
4	Bone Springs - Stage 4	14,826	15,008	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
5	Bone Springs - Stage 5	14,526	14,708	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
6	Bone Springs - Stage 6	14,226	14,408	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
7	Bone Springs - Stage 7	13,926	14,108	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
8	Bone Springs - Stage 8	13,626	13,808	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
9	Bone Springs - Stage 9	13,326	13,508	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
10	Bone Springs - Stage 10	13,026	13,208	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
11	Bone Springs - Stage 11	12,726	12,908	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
12	Bone Springs - Stage 12	12,426	12,608	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
13	Bone Springs - Stage 13	11,126	12,308	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
14	Bone Springs - Stage 14	11,886	12,308	66	0.42	0.8	7,468	160	na	na	na	6,800	8,500
15	Bone Springs - Stage 15	11,246	11,441	84	0.42	0.8	7,468	160	na	na	na	6,800	8,500

Additional Information:

API 30-025-40701
Lat: 32°29'58.85"N
Long: 103°31'45.77"W
TD 15990
PBTD 15966
TVD 11669
KOP 10398

Verify pump down rate and pressure

BLUESTEM ENERGY

Cementing Report

Well Name: Bobwhite 12 1H
AFE: Bob White 12 1H AFE
Operator: Bluestem Energy
AFE#: 1021

Field: Berry
County/Parish/State: Lea/NM
Contractor:
Date: 11/15/2012

Well ID: Bobwhite 12 1H

Start Date/Time: 10/7/2012
Job Type: PRIMARY
Well Section: **String OD:** 13.375
String Type: j55
Cementing Co: Basic

	Volume - bbls	Pump Time	Rate - bbls/min	Pressure - psi
Conditioning Data:				
Cement Data:	443	75	7	490
Displacement Data:	261	60	7.5	1030
Calc. Displacement Vol:				

Calc Top of Cement: Surface **% Excess:** 100 **Avg. Hole Size:** 17.5

Slurry Information:

Type	Stage	Class	Density	Yield	Sacks	Volume	Additives
Lead	1	C	13.500	1.740	975.000	302.000	4%gel+2%cacl+1/4pps celloflake
Tail	1	C	14.800	1.320	600.000	141.000	1%cacl

Liner Top Test:
Shoe Test:
Job Success: True
CBL Bond Quality:
Actual Top of Cmt: Surface
Misc. Comments:

BLUESTEM ENERGY

Cementing Report

Well Name: Bobwhite 12 1H
AFE: Bob White 12 1H AFE
Operator: Bluestem Energy
AFE#: 1021

Field: Berry
County/Parish/State: Lea/NM
Contractor:
Date: 11/15/2012

Well ID: Bobwhite 12 1H

Start Date/Time: 10/13/2012
Job Type: PRIMARY
Well Section: Intermediate **String OD:** 9.625
String Type: k55
Cementing Co: Basic

	Volume - bbls	Pump Time	Rate - bbls/min	Pressure - psi
Conditioning Data:				
Cement Data:	512		7	690
Displacement Data:	410.5		8	1360
Calc. Displacement Vol:				

Calc Top of Cement: 75 **% Excess:** 100 **Avg. Hole Size:** 12.25

Slurry Information:

Type	Stage	Class	Density	Yield	Sacks	Volume	Additives
Lead	1	c	13.500	1.820	300.000	97.200	5%salt+6pps plexcrete ste+.25% C-45+.2%c-41p+.25pps celloflake
Tail	1	c	14.800	1.320	200.000	47.000	neat
Lead	2	c	12.500	2.250	800.000	320.500	5%salt+6pps plexcrete ste+.25% c-45+.2%c-41p+.25pps celloflake
Lead	2	c	14.800	1.330	200.000	47.300	1%cacl

Liner Top Test:
Shoe Test: 2500
Job Success: True
CBL Bond Quality:
Actual Top of Cmt: 75
Misc. Comments: Top of cement confirmed with temp survey

BLUESTEM ENERGY

Cementing Report

Well Name: Bobwhite 12 1H
AFE: Bob White 12 1H AFE
Operator: Bluestem Energy
AFE#: 1021

Field: Berry
County/Parish/State: Lea/NM
Contractor:
Date: 11/15/2012

Well ID: Bobwhite 12 1H

Start Date/Time: 11/13/2012
Job Type: PRIMARY
Well Section: Production **String OD:** 5.5
String Type: p110
Cementing Co: Basic

	Volume - bbls	Pump Time	Rate - bbls/min	Pressure - psi
Conditioning Data:				
Cement Data:	667		8	980
Displacement Data:	368		8	3100
Calc. Displacement Vol:				

Calc Top of Cement: 400 **% Excess:** **Avg. Hole Size:** 8.75

Slurry Information:

Type	Stage	Class	Density	Yield	Sacks	Volume	Additives
Lead	1	H	11.800	2.420	775.000	334.000	10%gel+5%salt+1/4pps celloflake+2/10%c-41p+6/10%c-20
Tail	1	H	13.800	1.290	1450.000	334.000	5%ste+6/10%c-47A+2/10%c-49+1/10%c-51+2/10%c-20

Liner Top Test:
Shoe Test:
Job Success: True
CBL Bond Quality:
Actual Top of Cmt:
Misc. Comments:

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	12/9/2012
State:	New Mexico
County:	Lea County
API Number:	3002540701
Operator Name:	Bluestem Energy
Well Name and Number:	Bob White 12-1H
Longitude:	-103.529381
Latitude:	32.499681
Long/Lat Projection:	NAD27
Production Type:	Oil
True Vertical Depth (TVD):	11669
Total Water Volume (gal)*:	3669876

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
WATER (CLEAN - A	Bluestem Ene	Carrier / Base Fluid	Water	7732-18-5	100.00%	85.69098%	
CIA-5	Universal	ACID CORROSION INHI	METHYL ALCOHOL	67-56-1	40.00000%	0.00185%	
			PROPARGYL ALCOHOL	107-19-7	8.00000%	0.00037%	
B-4	Universal	BREAKERS AND BREAI	Ammonium Persulfate	7727 - 54 - 0	98.00%	0.01373%	
B-5E	Universal	BREAKERS AND BREAI	Ammonium Persulfate	7727 - 54 - 0	60.00000%	0.00880%	
			Cured Acrylic Resin	Trade Secret	25.00000%	0.00367%	
			Silica, Crystalline - Quartz	14808 - 60 - 7	16.00000%	0.00235%	
CSA-7	Universal	CLAY STABILIZERS AN	CHOLINE CHLORIDE	67-48-1	62.00000%	0.12848%	
			WATER	7732-18-5	38.00000%	0.07875%	
CX-9	Universal	CROSSLINKERS AND D	Potassium Metaborate	13709-94-9	30.00000%	0.02400%	
			Potassium Hydroxide	1310-58-3	5.00000%	0.00400%	
			Ethylene Glycol	107-21-1	10.00000%	0.00800%	
			Water	7732-18-5	75.00000%	0.05999%	
WFR-3	Universal	FRICTION REDUCERS	Alcohol Ethoxylate Surfactants	Trade Secret	8.00000%	0.00052%	
			Cationic Polyacrylamide co polymer	Trade Secret	35.00000%	0.00229%	
			Hydrotreated Petroleum Distillate	64742-47-8	30.00000%	0.00196%	
			Sodium Chloride	7647-14-5	2.00000%	0.00013%	
			Water	7732-18-5	35.00000%	0.00229%	
WGA-1A SLR	Universal	GELLING AGENTS FOR	Petroleum Distillates	Trade Secret	60.00000%	0.18201%	
			Polysaccharide blend	Trade Secret	60.00000%	0.18201%	
I-2L	Universal	IRON CONTROL ADDIT	ACETIC ACID	64-19-7	82.00000%	0.00471%	
			Water	7732-18-5	20.00000%	0.00115%	
NE-601	Universal	NON-EMULSIFIER AND	Methanol	67-56-1	70.00000%	0.04730%	
			Polyoxyalkylene glycol butyl ether	9004-77-7	50.00000%	0.03379%	
			Diethanolamide	Trade Secret	70.00000%	0.04730%	
7 1/2% HCl Acid, Ar	Universal	HYDROCHLORIC ACID	Hydrogen Chloride	7647-01-0	37.00000%	0.41228%	
			Water	7732 - 18 - 5	74.00000%	0.82455%	

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
30-50 mesh White S	Universal	PROPPANT	Silica, Quartz, SiO2	14808 - 60- 7	100.00%	12.48041%	

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

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

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.