Form 3160-3	OCD-HOBB	RECE		FORM	APPROVED		
(August 2007) UNITED STA	ATES	JUL 07	2010		lo. 1004-0137 July 31, 2010)	
DEPARTMENT OF T		HOBBS	ocn	5 Lease Serial No. NM-86151			
BUREAU OF LAND			مسامی ایک	6. If Indian, Alloted	or Tribe N	Name -	
la. Type of work: DRILL R	EENTER	, <u>, , , , , , , , , , , , , , , , , , </u>		7 If Unit or CA Ag		me and 1	No.
lb. Type of Well: ✔ Oil Well Gas Well Other	Single	Zone 🗌 Multip	ole Zone	8. Lease Name and Blue Quail Federa		(30	·59
2. Name of Operator EnerVest Operating LLC	<147	31 99		9 API Well No. 30- 015- 025	- 395	818	;
3a. Address 1001 Fannin Street, Suite 800 Houston, Texas 77002	3b. Phone No. (in (713) 495-653			10. Field and Pool, or Sand Dunes, Bon	e Springs	25	38e
 Location of Well (Report location clearly and in accordance At surface 660' FSL, 1980 FWL, Unit Letter N At proposed prod. zone 	with any State requirements	.*)	,	11. Sec., T. R. M. or Section 7, T-23-S		vey or A	trea
14 Distance in miles and direction from nearest town or post offin 39 miles west and north of Jal, New Mexico	œ*		1 -	12. County or Parish Lea		13. Sta NM	te
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	posed*660'16. No. of acres in lease17. Spacinine. ft.12040 acres		17. Spacir 40 acres	ng Unit dedicated to this	well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	d location* 1,320' 19. Proposed Depth 20 BLM		20 BLM/ NMB00	I/BIA Bond No. on file 20503			
 Elevations (Show whether DF, KDB, RT, GL, etc.) 3548' GL 	22 Approximat 06/16/2010	e date work will sta	rt*	23. Estimated durati 2 weeks	on		
	24. Attachn						
The following, completed in accordance with the requirements of							
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Support of the superscript of the superscri	System Lands, the	Item 20 above). 5. Operator certific	cation	ons unless covered by a formation and/or plans			
25. Signature Bridget Helfrich Title Regulatory Technician	Name (Pr Bridget	rinted/Typed) Helfrich			Date 5-	-10,	10
Approved by (Signature) /s/ Don Peterson	Name (P	rinted/Typed)			Date JUL	2	201
Title FIELD MANAGER	Office		CARL	SBAD FIELD OFF			44-
Application approval does not warrant or certify that the application conduct operations thereon. Conditions of approval, if any, are attached.	int holds legal or equitab.	ie utle to those righ		OVAL FOR T			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make	e it a crime for any perso	on knowingly and in its jurisdiction.	willfully to r	nake to any department	or agency	of the U	Inited
States any false, fictitious or fraudulent statements or representat	ions as to any matter with				<u></u>		

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SEE ATTACHED FOR CONDITIONS OF APPROVAL



ENERVEST OPERATING, LLC

BLUE QUAIL FEDERAL #3

660' FSL & 1980' FWL SEC 7, T23S, R32E

LEA COUNTY, NM

1. The estimated tops of geologic markers are as follows:

Base of Salt	4400'	Cherry Canyon	5511'	Avalon Sand	8624'
Lamar Lime	4572'	Brushy Canyon	8235'	TD	8800'
Ramsey Sand	4608′	Bone Spring	8522′		

2. The estimated depths at which anticipated water, oil or gas bearing formations are expected to be encountered:

Water: 150 – 250'

Oil or Gas: 5600 – 8700'

- 3. PRESSURE CONTROL EQUIPMENT: BOPE will be installed on the 13 3/8" casing and rated for 3M. BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. See Exhibit B.
 - 3A. **AUXILIARY EQUIPMENT:** Kelly cock, pit level indicators, flow sensor equipment, and a sub with full opening valve to fit the drill pipe and drill collars will be available on the rig floor in the open position at all times for use when the Kelly is not in use.

4. **PROPOSED CASING AND CEMENTING PROGRAM:**

A. <u>Casing Program</u> : (All New)	
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<u>Hole Size</u>	Casing Size	<u>Wt/ft</u>	<u>Grade</u>	<u>Thread</u>	<u>Interval</u>	<u>Length</u>	Safety Factors
17 ½"	13 3/8"	48#	H-40	STC	0 – 600'	600'	2.02 (c) 2.46 (b) 9.63 (t)
12 ¼"	8 5/8"	32#	J-55	LTC	0 – 4500'	4500'	1.54 (c) 1.23 (b) 3.40 (t)
7 7/8"	5 ½"	17#	N-80	LTC	0 8800'	8800'	1.30 (c) 1.66 (b) 1.92 (t)

EXHIBIT 7

Cementing Program:

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<u>Surface Casing</u>: 355 sks Class "C" + 4% Gel + 2% CaCl₂ (wt. 13.5 ppg, Yield 1.75 cu ft/sk) & 185 sks Class "C" + 2% CaCl₂ (wt. 14.8 ppg, Yield 1.34 cu ft/sk) <u>Circulate to surface</u>.

Intermediate Casing: 620 sks of 50/50 Poz "C" + 13% Gel + 5% Salt (wt. 11.8 ppg, Yield 2.45 cu ft/sk) & 230 sks 50/50 Poz "C" + 2% Gel + 5% Salt (wt. 14.2 ppg, Yield 1.3 cu ft/sk) <u>Circulate to surface</u>.

<u>Production Casing</u>: 1st stage: 440 sks (15:61:11) Poz: Premium "C": CSE-2 + 3% Salt (wt. 13.2 ppg, Yield 1.61 cu ft/sk) DV Tool set at approx. 6000'. 2nd stage: 100 sks 50/50 Poz "C" + 10% Gel (wt. 11.8 ppg, Yield 2.45 cu ft/sk) & 235 sks 50/50 Poz "C" + 2% Gel (wt. 14.2 ppg, Yield 1.26 cu ft/sk) <u>Tie back to Intermediate Casing (500'</u>). Volumes to be adjusted to caliper volume + 10%

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	Туре	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-600	FW Gel	8.4 - 8.9	32-36	N/C
600-4500	Brine	10.0	28	N/C
4500-TD	Cut Brine	8.9 - 9.3	28	<15.0

Sufficient mud material to maintain mud properties, control lost circulation and contain a blow out will be available at the well site during drilling operations. Mud will be checked hourly by rig personnel.

6. **EVALUATION PROGRAM:**

_	Samples:	Every 10' from intermediate casing to TD
See,	Logging:	G/R from surface to TD; Dual Induction Spectra G/R, Litho Density from 4500' to TD
COX	Coring:	None anticipated
	DST's:	None anticipated

7. ABNORMAL CONDITIONS AND ANTICIPATED BHP:

From 0 – 600':	Anticipated Max. BHP: 250 psi
From 600 – 4500':	Anticipated Max. BHP: 750 psi
From 4500 – 8800' (TD):	Anticipated Max. BHP: 2620 psi

Anticipated Potential Hazards: None

Abnormal Pressures Anticipated: None

Lost circulation Zones Anticipated: None

H₂S Zones Anticipated: None – Based on offset wells drilled in Sec. 7 (Blue Quail Fed. #1, Blue Quail Fed. #2 & Sharbro Fed. #7). <u>REQUEST EXEMPTION FOR H₂S DRILLING STIPS.</u> See COP

Maximum Bottom Hole Temperature: 160° F

8. ANTICIPATED STARTING DATE:

Plans are to drill this well as soon as possible after receiving approval. It should take approximately 16 days to drill the well with completion taking another 10 days. This well lies in the CRMA prairie chicken area as defined by the 1966 NM GAP analysis study; NM State University. ENERVEST OPERATING, LLC REQUESTS AN EXEMPTION FROM THE MARCH 15 – JUNE 15 PRAIRIE CHICKEN STIPS FOR THE DRILLING, COMPLETION & WORKOVER PHASES OF THIS WELL. EnerVest contends that there are no prairie chickens in this area, as supported by the field survey prepared by Auburn University in 2000, attached to the Surface Use Plan of Operations..





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EXHIBIT 9