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Form 3160-3 (August 2007)

JUL 07 2010

FORM APPROVED OMB No 1004-0137 Expires July 31, 2010

UNITED STATES DEPARTMENT OF THE INTERIOR HOBBSOCD

5. Lease Serial No. NM-62223

BUREAU OF LAND M.	ANACEMENT	A R ADMIN EAST SHOW AND AND AND		74111 02220		
APPLICATION FOR PERMIT T	6. If Indian, Allotee or Tribe Name					
la. Type of work:	NTER			7 If Unit or CA Agreeme	nt, Name and No).
lb. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Other	✓ Sin	gle Zone Multip	le Zone	8. Lease Name and Well Sharbro Federal #9	No. (30)	59
Name of Operator EnerVest Operating LLC	·<14	3199		9. API Well No. 30-045-035-3	9819	
3a. Address 1001 Fannin Street, Suite 800 Houston, Texas 77002	3b. Phone No. (713) 495-6	(include area code) 53 7		10 Field and Pool, or Expl Sand Dunes, Bone Sp		
Location of Well (Report location clearly and in accordance with At surface 1980' FSL, 2080 FWL, Unit Letter K At proposed prod. zone	h carty State requireme	ents.*)	,	11. Sec., T. R. M. or Blk.a Section 7, T-23-S, R-3	•	a
14. Distance in miles and direction from nearest town or post office. 39 miles west and north of Jal, New Mexico	•			12 County or Parish Lea	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16 No. of a	40 acres				
18. Distance from proposed location* 1,320' to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed 8,800'		NMB000			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3532' GL	22. Approxis 06/16/201	nate date work will sta	ırt* 	23. Estimated duration 2 weeks		
	24. Attac					
The following, completed in accordance with the requirements of O	nshore Oil and Gas					
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sysupo must be filed with the appropriate Forest Service Office 	stem Lands, the	Item 20 above). 5. Operator certifi	cation	ormation and/or plans as ma		
25 Signature Brilat Helfrich	l.	(Printed/Typed) et Helfrich		Da	ste 5-10-10	2
Title // Regulatory Technician					1111 2	2010
Approved by (Signature) /s/ Don Peterson	Name	(Printed/Typed)		D	ale Z	ZUIU
Title FIELD MANAGER	Office	C		D FIELD OFFICE		
Application approval does not warrant or certify that the applican	t holds legal or equ	itable title to those rig	hts in the su	bject lease which would enti	tle the applicant	to
conduct operations thereon. Conditions of approval, if any, are attached.				PPROVAL FOR		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representation	it a crime for any pons as to any matter	person knowingly and within its jurisdiction.	willfully to	make to any department or	agency of the Ur	nited

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

ACHED FOR JUNDITIONS OF APPROVAL

EXHIBIT 1

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State of New Mexico

JUL 07 2010

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 86240 Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION Submit 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

WELL LOCATION AND ACREAGE DEDICATION PLAT

□ AMENDED REPORT

1220 S. ST. FRANCIS DR., SANTA FE, NO. API Number 30-025-399	Pool Code	Sand Dines,	Bone Springs		
Property Code 305951	Proj	Property Name SHARBRO FEDERAL			
OGRID No. 143 \ 9 9		rator Name OPERATING, LLC	Elevation 3532'		

Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
VL of lot No	7	23-S	32-E		1980	SOUTH	2080	WEST	LEA	

Bottom Hole Location If Different From Surface

				DOCCOM	IIOIO .					
UL or lot No.	Section	Townshi	p	Range	Lot Ide	n Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill	Con	solidation (Code	Order No.				
40	1									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OR A NON-STANDARD OWN HAS BE	
LOT 1		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this
45.96 AC		or has a right to drift him we have at the location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
	GEODETIC COORDINATES NAD 27 NME Y=479606.5 N X=690790.1 E	Signature Date Janes C. Hunnicutt Printed Name
45.98 AC	LAT.=32.317043° N LONG.=103.715742° W	 SURVEYOR CERTIFICATION
LOT 3	3523.8'3531.6'	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
45.98 AC	3530.5' 3537.0	FEBRUARYN16520102
LOT 4	0861	Professional: Surveyor ANN A LONG 25/10
46.00 AC		Certificate No. GARY EIDSON 12641

ENERVEST OPERATING, LLC

RECEIVED

SHARBRO FEDERAL #9

JUL 07 2010

1980' FSL & 2080' FWL SEC 7, T23S, R32E

HOBBSOCD

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)

<u>Hole Size</u>	Casing Size	Wt/ft	<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

B. Cementing Program:

Surface Casing: 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) Circulate to surface.

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) Circulate to surface.

Production Casing: 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) Tie back to Intermediate Casing (500'). Volumes to be adjusted to caliper volume + 10%

5. MUD PROGRAM AND AUXILIARY EQUIPMENT:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
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

Logging: G/R from surface to TD; Dual Induction Spectra G/R, Litho Density from 4500' to TD

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.

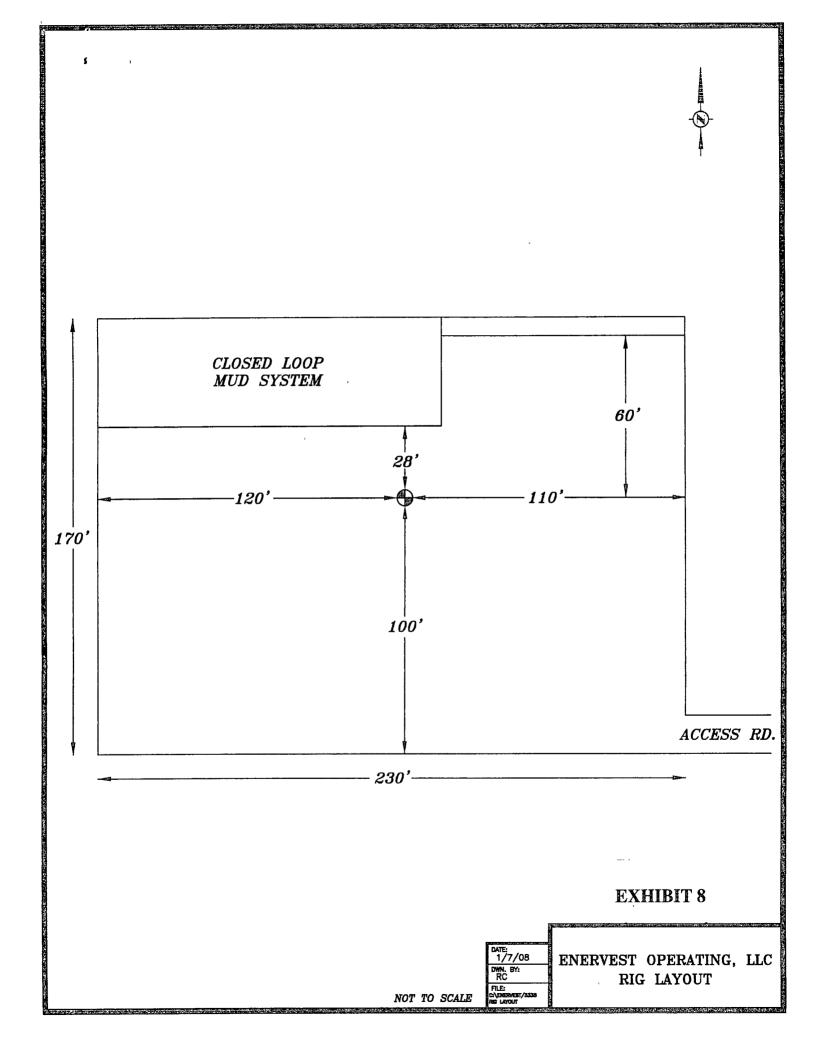
#2 & Sharbro Fed. #7). REQUEST EXEMPTION FOR H₂S DRILLING STIPS. — See COT

Maximum Bottom Hole Temperature: 160° F

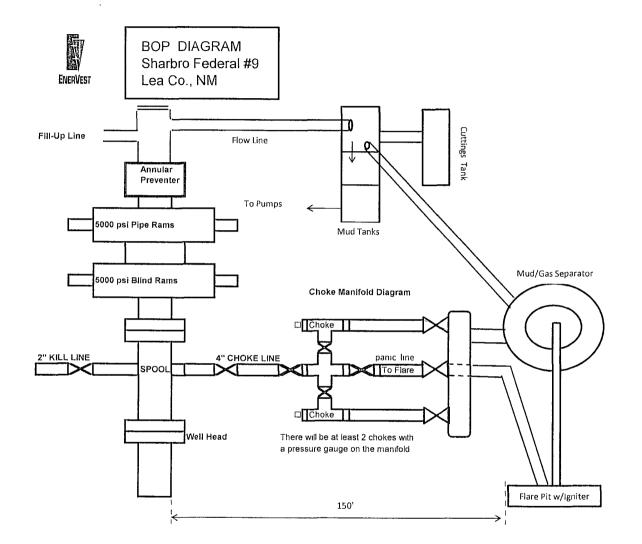
8. ANTICIPATED STARTING DATE:

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.

ENERVEST Sharbro Federal #9 WELL 2/2/2010 DATE TBD RIG TYPE VERTICAL ELEVATION GL 3532' COUNTY LEA SAND DUNES FIELD CEMENT TBD MUD GAS/OIL OIL SBHT NA LOCATION 1980' FSL & 2080' FWL OF SEC. 7, T23S, R32 (UL = K) COMMENTS OBJECTIVE FORMATIONS: BONE SPRING SAND, AVALON SAND NOTE: **VERTICAL** OPEN HOLE CEMENT WELLHEAD REMARKS SURVEYS WOB/GPM FORMATION TOPS MUD-WEIGHT LOGS **DEPTH** BIT HOLE SIZES LOGGER 8 4-8.9 None 17.5" 300' & 600' 10/50/900gpm insert 600' 13-3/8" 48# H-40 STC Casing Every 1000' 10/25/700 10 ppg PDC 12.25" or less Bring Motor None (C.H. GR) 4,000 (TOC) Base of Salt 4,400 8-5/8" 32# J-5\$ STC Casing 4,600 5,511 Cherry Canyon Every 1000' 10/25/500 or less PDC Motor 8.9-9.3 6,000 7-7/8" DV Tool @ 6,000' 0 8,235 Brushy Canyon Dual Induction, Spectra GR Litho Density Neutron 8,522 Bone \$pring 8,624 Avalon Sand 5-1/2" 17# J-55 LTC &asing 8,800 OFFICE HOME TBD REGULATORY AFE# TBD SAFETY, HEALTH & ENVIRONMENTAL EV# GEOLOGIST TBD API#



BOP MANIFOLD SYSTEM for Potential H2S Environment



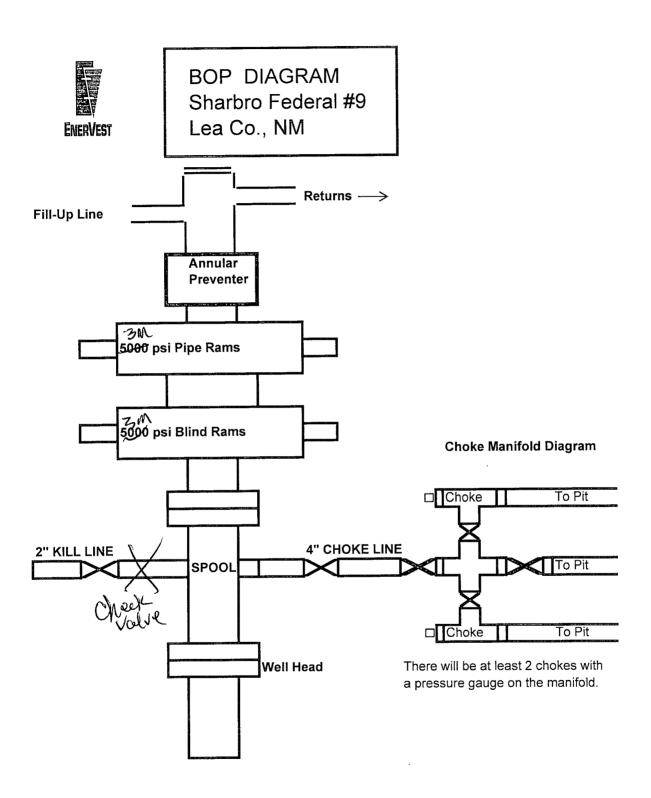


EXHIBIT 9