Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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APR 12 2011
Bureau of Land Management
Farmington Field Office

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No. JIC102	
6. If Indian, Allottee or Tribe Name JICARILLA APACHE	
7. If Unit or CA/Agreement, Name and/or No.	
1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	8. Well Name and No. JICARILLA APACHE 102 11M
2. Name of Operator ENER VEST OPERATING LLC Contact: JANET M. BIENSKI E-Mail: jbienski@enervest.net	9. API Well No. 30-039-29912-00-X1
3a. Address 1001 FANNIN STREET SUITE 800 HOUSTON, TX 77002-6708 3b. Phone No. (include area code) Ph: 713-495-1571 Fx: 713-982-1501	10. Field and Pool, or Exploratory BASIN DAKOTA BLANCO MESAVERDE
4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)* Sec 10 T26N R4W NWSW 1668FSL 468FWL 36.295350 N Lat, 107.144630 W Lon	11. County or Parish, and State RIO ARRIBA COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original A PD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EnerVest Operating, L.L.C. respectfully requests the following changes to the original APD. (Attached please find Drlg. Prog Replacement pgs 3 and 4, which reflect the changes as listed below.)

1) 400' of 9-5/8" surf csg (orig btm was 250').
2) Surf csg test press of 600 psi.
3) Run 4-1/2" long string in lieu of 4-1/2" prod liner.
4) New Proposed TD = 8,000' (was 7,500' on APD & 8,000' on Drlg Prog). T/Morrison = 8,390' (avoid wet Burro Canyon).

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #105987 verified by the BLM Well Information System
For ENER VEST OPERATING LLC, sent to the Rio Puerco
Committed to AFMSS for processing by TROY SALYERS on 04/12/2011 (11TS0031SE)

Name *(Printed/Typed)* JANET M. BIENSKI — Title REGULATORY ASSISTANT

Signature (Electronic Submission) — Date 04/06/2011

RECEIVED
APR 2011
OIL CONS. DIV. DIST. 3

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By TROY SALYERS — Title PETROLEUM ENGINEER — Date 04/12/2011

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Rio Puerco

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOCD

4. CASING AND CEMENTING DESIGN:

Casing Program:

Hole Size	Depth	Casing Size
12¼"	400'	9 5/8"
8¾"	3967 +/- Lewis seat	7"
6¼"	8000'	4½"

Csg Size	Casing Type	Top (MD)	Bottom (MD)	Wt (lb./ ft)	Grade	Thread	Condition
9-5/8"	Surface	0'	400'	36.0	J55/K55	STC	New
7"	Intermediate	0'	3967' +/-	23.0	N80	LTC	New
4½"	Prod. Csg.	0'	8000'	11.6	N80	LTC	New

Casing Data				Collapse	Burst	Min. Tensile
OD	Wt/Ft	Grade	Thread	(psi)	(psi)	(Lbs.)
9-5/8"	36.0 lbs.	J55	STC	2,020	3,520	394,000
7"	23.0 lbs.	N80	LTC	3,830	6,340	442,000
4½"	11.6 lbs.	N0	LTC	6,350	7,780	223,000

MINIMUM CASING DESIGN FACTORS:

COLLAPSE:	1.125
BURST:	1.00
TENSION:	1.80

Area Fracture Gradient Range:	0.7 - 0.8 psi/foot
Maximum anticipated reservoir pressure:	2,500 psi
Maximum anticipated mud weight:	9.0 ppg
Maximum surface treating pressure:	3,500 – 3,750 psi

Float Equipment:

Surface Casing: Guide shoe on bottom and 3 centralizers on the bottom 3 joints.

Intermediate Casing: Float shoe on bottom joint and a float collar one joint up from float shoe. One centralizer 10 ft. above float shoe and nine centralizers spaced every joint above the float collar. Stage tool above the Kirtland formation. One centralizer below stage tool and one centralizer above stage tool.

Production Casing: 4 ½" cement nosed guide shoe and a float collar on top of bottom joint with centralizers over potential hydrocarbon bearing zones.

Cementing Program:

9-5/8" Surface casing: 400'
240 sx HES Prem cement with 2% $CaCl_2$ + 0.125 ppsx Poly-E-Flake. 100% excess to circulate cement to surface. WOC 12 hrs.

Slurry weight: 15.8 ppg
Slurry yield: 1.17 ft^3/sack

Volume basis:		
	42' of 9-5/8" shoe joint	18.3 cf
	250' of 12-1/4" x 9-5/8" annulus	125.3 cf
	100% excess (annulus)	125.3 cf
	Total	268.9 cf

209.6 cu ft

Note:
1. Design top of cement is the surface.

7" Intermediate Casing: 3967'
1st Stage: 118 sacks of Type III cement: 3967' – 3237' (730')
Slurry weight: 14.5 ppg Annular Vol = 109.8 cf + 54.9 cf (50% Access)
Slurry yield: 1.4 ft^3/sack = 164.7 cf

2nd Stage: (Stage tool at 3237' +/-): 377 sacks of Premium Lite FM

Slurry weight: 12.4 ppg Volume = 724.0 cf
Slurry yield: 1.92 ft^3/sack