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Form 3160-5
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 26 2010

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELL'S**
Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.Bureau of Land Management
Farmington Field Office5. Lease Serial No
Jicarilla Contract 109
6. If Indian, Allottee or Tribe Name
Jicarilla Apache

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

EnerVest Operating, L.L.C.

3a. Address

1001 Fannin, Suite 800
Houston, TX 77002

3b. Phone No. (include area code)

713-495-6537

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 - Twp 26N - Rge 5W
1900' FSL and 2300' FEL (Unit J)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Jicarilla B #3M

9. API Well No.

30-039-29638

10. Field and Pool or Exploratory Area

Blanco Mesaverde/Basin Dakota

11. Country or Parish, State

Rio Arriba County, NM

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

TYPE OF SUBMISSION

TYPE OF ACTION

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

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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Please see the attached (4) pages, containing our proposed Dakota Completion and Repair Procedure.

Cancel P-A plans

RCVD APR 29 '10

OIL CONS. DIV.

DIST. 3

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

Bridget Helfrich

Title Regulatory Tech.

Signature

Bridget Helfrich

Date 04/22/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

APR 27 2010

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

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.

(Instructions on page 2)

NMOCD 5/4

WELL JICARILLA B #3M (Current)				ENERVEST			
TYPE "M Verde"-"Dakota"		RIG		DATE		4/1/2010	
FIELD		COUNTY		ELEVATION		6611'	
GAS/OIL Gas/Oil		MUD		CEMENT			
LOCATION				BHT/BHP		160 deg-2565 psi	
COMMENTS: OBJECTIVE FORMATION: "Dakota"							
NOTE: NOTIFY BLM @505-289-3748 AND BRYCE HAMMOND 505-759-1823 X-28 WITH JICCARILLA NATION OF MOVEIN AND CMT							
HOLE SECTIONS	SURVEYS	WOB/GPM BIT	FORMATION TOPS HOLE SIZES	DEPTH TVD	MUD WEIGHT	OPEN HOLE LOGS	CEMENT WELLHEAD REMARKS
Surface Section				280	Cement to surface		
Inclination @ 250' 12 1/4" Hole > 9-5/8", 36#, J-55, ST&C					8 4 - 8.6 PPG NATIVE 50-60 Vis.		
Intermediate Section							
Inclination every 500' 8-3/4" Borehole >							
Ojo Alamo @ 2275' >							
Fruitland Coal @ 2916' >							
Picture Cliffs @ 3130' >							
Lewis Shale @ 3209' >							
7", 23#, N-80, LT&C @ 3500' >							
Cemented to Surface >					Stage Collar Cementing Tool @ 2600'		
Chacra--4051' >					BP at 3100'		
4837'		Mesa Verde--4837' >			Liner top at 3243'		
"Mesa Verde"		Menefee--4924' >					
5522'		Point Lookout--5356' >					
7360'		Dakota--7360' >			Squeeze Perfs @ 7180 to 7181'		
"Dakota"		PBTD: 7511' >			Dakota Proposed Production Perfs 7360' to 7374'		
7548'		4-1/2", 11.6#, N-80, LT&C			7381' to 7398'		
					7448' to 7460'		
					7485' to 7509'		
					7535' to 7544'		
					Plug #1		
				TD: 7579'			
					Squeeze Perfs @ 7357' to 7358'		
					Top of Cement by CBL 7260'		
					Squeeze Perfs @ 7553' to 7554'		
					Retainer at 7522'		

OFFICE			
AFE #	REGULATORY	Ronnie Young	(713) 495-6530
EV #	ENGINEER	B R Suggs & Alex Zazzi	(713) 495-6543
API #	GEOLOGIST	Gary Kowalczyk	(713) 495-6590

"DAKOTA COMPLETION AND REPAIR PROCEDURE"

JICARILLA B # 3M

Objective: The primary objective of this procedure is to first frac and test the "Dakota" and then come up the hole and repair the cement job on the 4 1/2" casing in accordance with the BLM wishes and then put the well on production.

The "Dakota" has already been squeezed and repaired as our at present WBD indicates.

Note: All cement volumes use 100% excess outside the pipe. The wellbore fluid will be 8.4 ppg KCl water and it is sufficient to control all exposed formation pressures. All cement will be Premium Class "G" cement mixed at 15.8 ppg and a yield of 1.15 ft³/sx

- 1) Install and test rig anchors and prepare a small blow pit. Comply with all State, BLM, and Operator safety regulations. Move-in Triple-Double workover rig and conduct safety meeting. Record wellhead pressures, and NU a relief line and blow down well if possible. Kill well with KCL water as needed. ND wellhead and NU BOP's. Function test BOP's and test to 5000 psi
- 2) Tally and prepare 7510' of 2.375" tubing workstring and PU 6" cement mill with necessary 3 1/2" DC and TIH to 3000 psi and test 7" casing to 2000 psi. If test is OK then drill out the BP at 3100' and POOH and PU RTTS tool and TIH, Set in 4 1/2" at 3300'. Test 7" csg, DV tool, and liner top to 4333 psi for 30 min. If test is OK then proceed in the hole to 7200' and set packer. Test perfs at 7180' to 7181' to 2000 psi. If test is OK, then POOH with RTTS tool. If test is not OK then prepare a squeeze plan.
- 3) PU 6" cement mill and necessary drill collars, and TIH, Tag PBTD at 7511', Drill cement and retainer at 7522' and cement down to 7550', POOH and rig up wireline truck and set BP at 7549', Making sure that the lower zone is OK, lower perf is at 7544'.
- 4) RU and run Weatherford casing patch gauge and scraper to PBTD and circulate clean. POOH and run 20 ft Weatherford casing patch in hole and set from 7191' to 7171' across the perfs from 7180' to 7181' according to Weatherford instructions. Use Wireline G/R to ensure that the perfs are covered before setting patch.
- 5) POOH and PU RTTS Tool and TIH, to 7000'. Test entire casing string to 4333 psi for 30 min. If test is good then POOH, If test is not good then locate leak with RTTS and prepare repair plan.
- 6) Circ and condition with completion fluid and POOH, rig down, and move-out. Weatherford instructions.

NOTE: Details of this section will be determined and furnished by the Production Engineer

- 7) Move-in necessary Frac Tanks and Fill with Frac Fluid
- 8) Perf from (7360' to 7374')- (7381' to 7398')- (7448' to 7460')- (7485' to 7509')- (7535' to 7544')
- 9) Frac as Req'd, Unload, Flowback, Test well
- 10) Set Composite BP at 7150', Dump 50' of sand on top of BP, Perforate (4 holes) 6390' to 6388' and 6280' to 6282' (4 holes) and set retainer at 6350'.
- 11) Move-in and rig-up triple double. Load hole with fluid and nipple down tree and install BOP's Test BOP's to 3500 psi. PU retainer sting-in tool on the 2 3/8" workstring and TIH. Circ and Clean Use gelled sweep to clean hole.
- 12) TIH and sting into Retainer, and establish circulation thru the perfs, Unsting and pull pipeup above perfs, and wash back to retainer top. Repeat this until you are able to sting in and sting out of the retainer with no drag. Sting back in retainer and circulate 25 sx of cement (to be determined) Unsting and pull 9 stands of pipe and reverse out, Leave +/- 5 sxs on top of the retainer. POOH

NOTE: This squeeze corresponds to Plug # 2 on the original BLM recommendation

"DAKOTA COMPLETION AND REPAIR PROCEDURE"

JICARILLA B # 3M

- 13) RU Perf Truck and perf 4 holes 4884' to 4882' and 4 holes 4780' to 4782' and set Composite Retainer at 4850'
- 14) Repeat step 12
NOTE: This squeeze corresponds to Plug # 3 on the original BLM recommendation
- 15) RU perf truck and perf 4 holes 4122' to 4120' and 4 holes 4000' to 4002' and set Composite retainer at 4100'
- 16) Repeat Step 12
NOTE: This squeeze corresponds to Plug # 4 on the original BLM recommendation
- 17) PU 6" mill and necessary 3 1/2" DC and TIH to retainer at 6350' and drill out each squeeze and retainer. After passing each set of perms, test to 1000 psi. Clean out to PBTD of 7150'. Rig up wireline and run GR/CBL from plugback TD to liner top.
- 18) Drill out BP and POOH for completion setting
- 19) Run Prod tubing and Packer and rigdown

WELL JICARILLA B #3M (Proposed)						ENERVEST					
TYPE "M Verde"- "Dakota"		RIG				DATE		4/1/2010			
FIELD		COUNTY Rio Arriba County, New Mexico				ELEVATION		6611'			
GAS/OIL Gas/Oil		MUD				CEMENT					
LOCATION						BHT/BHP		160 deg-2565 psi			
COMMENTS. OBJECTIVE FORMATION: "Dakota"											
NOTE: NOTIFY BLM @505-289-3748 AND Bryce Hammond 505-759-1823 X-28 WITH Jicarilla Nation of Movein and CMT											
HOLE SECTIONS	SURVEYS	WOB/GPM BIT	FORMATION TOPS HOLE SIZES	DEPTH TVD	MUD WEIGHT	OPEN HOLE LOGS	CEMENT	WELLHEAD	REMARKS		
<u>Surface Section</u>									Cement to surface 8.4 - 8.6 PPG Native 50-60 Vis.		
Inclination @ 250'			12 1/4" Hole > 9-5/8", 36#, J-55, ST&C	280							
<u>Intermediate Section</u>											
Inclination every 500'			8-3/4" Borehole >								
			Ojo Alamo @ 2275' >								
			X	X					Stage Collar Cementing Tool @ 2600'		
			Fruitland Coal @ 2916' > Picture Cliffs @ 3130' > Lewis Shale @ 3209' > 7", 23#, N-80, LT&C @ 3500' > Cemented to Surface						Liner top packer tested OK		
			> Chacra--4051'						Squeeze Perfs @ 4002 to 4000' Retainer @ 4100'		
4837'			> Mesa Verde--4837'						Squeeze Perfs @ 4122'to4120' Plug #4 Squeeze Perfs @4782' to4780'		
"Mesa Verde"			> Menefee--4924' > >						Retainer at 4850' Squeeze Perfs@4884' to4882' Plug #3		
5522'			> Point Lookout--5356'						Squeeze Perfs @ 6280' to 6286' Retainer at 6350' Squeeze Perfs @6390' to 6388' Plug #2		
			Composite BP at 7150'						Squeeze Perfs @ 7180 to 7181' Dakota Proposed Production Perfs		
7360'			Dakota--7360'						Top of Cement by CBL 7260' 7360' to 7374' Squeeze Perfs @ 7357' to 7358' 7381' to 7398'		
"Dakota"			PBTD: 7550' >						Bridge Plug @ 7549' 7448' to 7460' PBTD-7550' 7485' to 7509'		
7548'			4-1/2", 11.6#, N-80, LT&C						Squeeze perfs @ 7553' to 7554' 7535' to 7544' Plug #1		
				TD: 7579'							
						OFFICE					
AFE #		REGULATORY		Ronnie Young	(713) 495-6530						
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