

ENERVEST Jicarilla B #3R (As Completed)								
TYPE	Dakota/MV	RIG	TBD	DATE	23-Aug-2013			
FIELD	Tapacito	COUNTY	Rio Arriba	ELEVATION	6610' GL, 6624' KB			
GAS/OIL	Gas/Oil	MUD	LSND.	BHT/BHP	160 deg / 1696 psi			
LOCATION	SHL = 1930' FSL & 2300' FEL	BHL = 1921' FSL & 2013' FEL	Unit N, Sec.15, T26N, R5W	SHL = Lat: 36.48508, Long: 107.34531				
COMMENTS:	OBJECTIVE FORMATION: Dakota and Mesa Verde							
NOTES:	Depths have been adjusted to reflect log depths							
DEPTH TVD								
Surface Section	Cemented to Surface							
Inclination @ 500'	12 1/4" Hole >	9-5/8", 36#, J-55, LT&C	523'	Cement to surface w/ 225 sx Type III cement Water based bentonite mud Drilled Tri-Cone Bit				
Production Section	Cemented to Surface with 3 Stages							
8-3/4" Hole from 523' to 3426' MD >	< < < Start to drill directionally @ 615' @ 90 deg azimuth							
2 3/8" 4.7# J-55 tubing @ set @ 7572', SN @ 7571'	>>>>>>>	Drilled w/PDC, motor, 4-1/2" DP						
Ojo Alamo >>>	< < < Resume vertical hole @ +/- 2426' MD							
Fruitland Coal >>>	< < Stage Collar Cementing Tool							
Pictured Cliffs >>>	RCVD AUG 29 '13							
Lewis >>>	OIL CONS. DIV.							
7 7/8" hole from 3426' MD to TD >	DIST. 3							
Marker Jt: 4841'-4851' MD >>>>	< < Stage Collar Cementing Tool							
Cliffhouse >>>	Drilled w/PDC, motor, 4-1/2" DP							
Menefee >>>	8.7-9.0 PPG LSND Bentonite Mud							
Point Lookout >>>	Cement Stg 1: Pump 30 bbl Seal Bond + 539 sx (1050 cft) Prem Lt HS FM @ 12.5 ppg, circ 30 bbl cement to surf.							
Mancos (geological) >>>	Stg 2: Pump 265 sx (567 cft) Prem Lt @ 12.1 ppg + 50 sx (69 cft) Type III @ 14.6 ppg. Circ 30 bbl cement to surf.							
Mancos (Regulatory) >>>	Stg 3: Pump 378 sx (826 cft) Prem Lt @ 12.1 ppg + 50 sx (70 cft) Type III @ 14.6 ppg. Circ 30 bbl cement to surf.							
Gallup >>>	Logs: Cased-hole neutron, GR CBL							
Greenhorn >>>	< < PBTD= 7657' MD							
Graneros Shale >>>	< < FC = 7656'							
Dakota >>>								
4-1/2", 11.6, N-80 LT&C - 7700' MD To Surface								
TD=7710' MD								
7681' TVD								
U MV: Perfs: 4908-5280, 40 holes, Acid balloff, frac 70-50% N2 foam 12100#/ 20/40 + 30000#/ RC @ 46 bpm foam rate								
U MV: Perfs: 5360-5529, 42 holes, Acid balloff, frac 70-50% N2 foam 12100#/ 20/40 + 30000#/ RC @ 55 bpm foam rate								
U Dakota: Perfs: 7384-7419, 28 holes, Acid balloff, frac slickwater 106764 gal, 83592#/ 20/40 @ 61 bpm								
L. Dakota: Perfs: 7471-7608, 36 holes, Acid balloff, frac slickwater 200046 gal, 112880#/ 20/40 @ 77 bpm								
AFE # CO-1212-683	REGULATORY	B Trevino	713-495-5355					
EV # 54012.017	ENGINEER	R Trueheart / L Diede	713-495-1561 / 505-334-8867					
API # 30-039-31170	GEOLOGIST	G Kowalczyk	713-495-6590					

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