

ENERVEST OPERATING, LLC					
Jicarilla A # 3N (As Completed)					
TYPE	Dakota/MV		DATE	8-Jun-2013	
FIELD	COUNTY		ELEVATION	6562'	
GAS/OIL	Rio Arriba		BHT/BHP	161 deg- 1662 psi	
LOCATION	1164' FNL & 2548' FWL Unit C, Sec 19, T26N, R5W		Lat: 36.47655, Long: 107.40150 (NAD 83)		
COMMENTS: OBJECTIVE FORMATION: Dakota and Mesa Verde					
NOTES: Depths of formation and DVs set to log depths					
			DEPTH TVD		
Surface Section					
12 1/4" Hole > 9-5/8", 36#, J-55, LT&C			523'		Cement to surface Water based bentonite mud Drilled w/ PDC Bit
Production Section					
8 3/4" Hole to 3270' > 2 7/8" 6.5# J-55 tubing set @ 7422', FC @ 7420' >>>>>>					Drilled w/PDC , motor, 4-1/2" DP 8.7- 9.0 PPG Bentonite Mud
Ojo Alamo >			2383'		RCVD JUL 11 '13 OIL CONS. DIV. DIST. 3
			2350'	< Stage Collar Cementing Tool	
Kirtland >			2614'		
Fruitland Coal >			2800'		
Picture Cliffs >			2978'		
Lewis Shale >			3103'		
7 7/8" Hole 3270' to TD >					
Menefee; 6-14-13: 4990'-5114' 32 holes, BD HCl and balls, foam frac w/ 51534 gal 2% KCl gel water and 1273100 scf N2 and 111841# 20/40 sand and 19069# 20/40 resin-coated sand @ 51 bpm foam rate			4298'	<	Stage Collar Cementing Tool
Point Lookout; 6-14-13: 5202'-5356' 44 holes, BD HCl and balls, foam frac w/ 62202 gal 2% KCl gel water and 1615300 scf N2 and 156159# 20/40 sand + 41161# resin-coated 20/40 sand @ 54 bpm foam rate			4636'		Drilled w/PDC , motor, 4-1/2" DP 8.7-9.0 PPG Bentonite Mud
Marker Jt 4742' to 4764' Initial TOC = 4830'					
Menefee >			4678'		
Point Lookout >			5196'		Pumped Stg 1 cement, job, lost circ, could not circulate thru lower stage tool. Opened upper stage tool, circulated and closed upper stage tool.
Mancos >			5355'		MIRU, drill out upper DV tool, drop plug to assure lower DV tool closed. Drill out lower DV tool.
Gallup >			6379'		Pressure test csg to 2280 psi
Greenhorn >			7115'		Logs: Cased Hole Neutron, CBL
Graneros Shale >			7167'		
Dakota >			7194'		
5-1/2", 17#, L-80 LT&C - from 7567' To Surface			7570'	<	PBTD = 7502' WL measure < FC @ 7520'
Squeeze 6-20-13 from 4680' with 500 sx prem lite @ 12.1 ppg, yld 2.12 and 200 sx Type III @ 14.6, yld 1.37. Circ cement to surface.					
U Dak; 6-13-13; 7196'-7230', 30 holes, BD HCl and balls, frac w/ 121758 gal 2% KCl slickwater and 82000# 20/40 sand @ 60 bpm					
L Dak; 6-13-13; 7330'- 7446' 29 holes, BD HCl and balls, Frac w/ 209244 gal 2% KCl slickwater and 100000# 20/40 sand @ 60 bpm					

* Amend to include correct TOPS -
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