

ENERVEST OPERATING, LLC					
Jicarilla A # 3N (As Completed)					
TYPE	Dakota/MV			DATE	14-Jul-2013
FIELD	COUNTY			ELEVATION	6562'
GAS/OIL	Rio Arriba			BHT/BHP	161 deg- 1662 psi
LOCATION	SHL = 1164' FNL & 2548' FWL Unit C, Sec 19, T26N, R5W			Lat: 36.47655, Long: 107.40150 (NAD 83)	
	BHL = 1154' FNL & 2478' FWL Unit C, Sec 19, T26N, R5W				
COMMENTS: OBJECTIVE FORMATION: Dakota and Mesa Verde					
NOTES: Depths of formation and DVs set to log depths					
DEPTH TVD					
<b>Surface Section</b>					
12 1/4" Hole > 9-5/8", 36#, J-55, LT&C			523'	Cement to surface Water based bentonite mud Drilled w/ PDC Bit	
<b>Production Section</b>					
2 7/8" 6.5# J-55 tubing set @ 7422', FC @ 7420'				Drilled w/PDC, motor, 4-1/2" DP	
8 3/4" Hole to 3270' >				8.7- 9.0 PPG Bentonite Mud	
			2350'	< Stage Collar Cementing Tool	
Ojo Alamo >			2383'		
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'			4678'		
Initial TOC = 4830'					
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.			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.	
			5355'	MIRU, drill out upper DV tool, drop plug to assure lowwtr DV tool closed. Drill out lower DV tool.	
			5696'	Pressure test csg to 2280 psi	
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			6379'	Logs: Cased Hole Neutron, CBL	
			7115'		
L Dak; 6-13-13: 7330'-7446' 28 holes, BD HCl and balls, Frac w/ 209244 gal 2% KCl slickwater and 100000# 20/40 sand @ 60 bpm			7167'		
			7194'		
5-1/2", 17#, L-80 LT&C - from 7567' To Surface			7570'	< PBTD = 7502' WL measure < FC @ 7520'	
RCVD AUG 6 '13 OIL CONS. DIV. DIST. 3					
AFE #	CO 1212-685	REGULATORY	Bart Trevino	(713) 495 5355	
EV #	54012.025	ENGINEER	R Trueheart / L Diede	(713) 495 1561 / ( 505) 334 8867	
API #	30-039-31169	GEOLOGIST	G Kowalczyk	(713) 495 6590	

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