

30-039-31175

ENERVEST OPERATING, LLC

Jicarilla Apache 102 # 8M as Completed

TYPE Dakota/MV		RIG	DATE 21-Oct-2013	
FIELD		COUNTY Rio Arriba	ELEVATION 6960'	
GAS/OIL Gas/Oil		MUD	BHT/BHP 170 deg- 1800 psi	
LOCATION	SHL = 2425' FSL & 255' FWL Unit L, Sec 3, T26N, R4W		Lat: 36.51473, Long: 107.24654 (NAD 83)	
BHL = 2421' FSL & 243' FWL, Unit L, Sec 3, T26N, R4W		Lat: 36.51469, Long: 107.24668 (NAD 83)		
NOTES: Depths corrected to log depths				
			DEPTH TVD	
Surface Section				
12 1/4" Hole > 9-5/8", 36#, J-55, LT&C		523'	Cement to surface 225 sx Type III Cement	
Production Section				
8 3/4" Hole to 3882' > 2 3/8" 4.7# J-55 tubing set @ 7964', SN @ 7963'			RCVD OCT 25 '13 OIL CONS. DIV. DIST. 3	
			8.7- 9.0 PPG Bentonite Mud	
		3172'	<< Stage Collar Cementing Tool	
Ojo Alamo >		3214'	Stg 3: 378 sx (826 cu ft) Premium Lite FM @ 12.1 ppg + 50 sx (69 cu ft) Type III @ 14.6 ppg . Circulate 1 bbl cement to surface.	
Kirtland >		3380'	Stg 2: 361 sx (567 cu ft) Premium Lite FM @ 12.1 ppg + 50 sx (69 cu ft) Type III cement @ 14.6 ppg. Close DV, open Upper DV, circulate 1 bbl cement to surface.	
Fruitland Coal >		3528'		
Pictured Cliffs >		3702'		
Lewis Shale >		3798'		
Water Flow before cementing, depth??				
7 7/8" Hole 3882' to TD >				
Cliffhouse >		5372'	<< Stage Collar Cementing Tool	
Marker Jt 5476'- 5496'		5387'	<< External Casing Packer 8.7-9.0 PPG Bentonite Mud	
Menefee >		5415'		
		5522'	Stg 1: 30 bbl Seal Bond, 465 sx (1050 cu ft) Premium Lite HS FS @ 12.5 ppg. Bump Plug, Inflate ECP, open DV tool. Circ to surface 16 bbl cement to surface.	
Point Lookout >		5877'		
Mancos >		6012'	Severe Mud losses @ 5550-5600'	
Regulatory Mancos >>>		6377'		
Gallup >		7058'	Logs: Cased-hole GR / Neutron after casing CBL	
Greenhorn >		7804'		
Graneros Shale >		7862'	<< PBTD 8124' << FC 8140'	
Dakota >		7884'		
4-1/2", 11.6#, N-80 LT&C - Set @ 8183'		8190'		
AFE #	CO-1302-233	REGULATORY	Bart Trevino	(713) 495 5355
EV #	54012.006	ENGINEER	R Trueheart / L Diede	(713) 495 1561 / (505) 334 8867
API #	30-039-31175	GEOLOGIST	G Kowalczyk	(713) 495 6590

AV