

ENERVEST OPERATING, LLC

Jicarilla Contract 155 # 20M (As Drilled)

TYPE	Dakota/MV	RIG	TBD	DATE	1-Jun-2014
FIELD	Tapicito	COUNTY	Rio Arriba	ELEVATION	GL= 6492', KB=6505'
GAS/OIL	Gas/Oil	MUD	LSND	BHT/BHP	165 deg / 1609 psi
LOCATION	SHL; 1201' FSL & 762' FWL Unit M, Sec 29, T26N, R5W			SHL; -107.388833 W, 36.453944 N (NAD 27)	
	BHL; 1275' FSL & 671' FWL Unit M, Sec 29, T26N, R5W			BHL; -107.389847 W, 36.454628 N (NAD27)	

COMMENTS: OBJECTIVE FORMATION: Dakota and Mesa Verde

NOTES:

		DEPTH MD/TVD	
Surface Section			
Cemented to Surface			
Inclination @ 500'	12 1/4" Hole > 8-5/8", 24#, J-55, ST&C	525'	Cement to surface Water based bentonite mud Drilled Tri-Cone Bit
Production Section			
Cemented to Surface with 3 Stages			
7 7/8" Hole from 525' to TD >			< < < Start to drill directionally @ +/-600' 315 deg azimuth
	Ojo Alamo >	2,162'	
		2,232'	
	Kirtland >	2,417'	< < < Stage Collar Cementing Tool Log depth
	Fruitland Coal >	2,692'	
	Picture Cliffs >	2,824'	
	Lewis >	2,891'	
			< < < Resume vertical hole @ +/- 3600' MD Vertical Section = +/- 117 NW
	Chacra >	3706	
		4134	< < < Stage Collar Cementing Tool Log Depth
	Marker Jt 4479'-4494' MD >>>>>	4453	
	Cliffhouse >		
	Menefee >	4502	
	Point Lookout >	5015	
			Stg 1 Cement: 30 bbl Seal Bond, 1053 cu ft (524 sx) Prem Lite HS @ 12.5 ppg, 2.01 yld, 45 bbl cement back. Stg2 Cement: 10 bbl SAPP, 575 cu ft (270 sx) Prem Lite @ 12.1 ppg, 2.13 yld, 69 cu ft (50 sx) Type III tail @ 14.6 ppg, 1.39 yld. 37 bbls cement back.
	Mancos >	5215	Stg 3 Cement: 10 bbl SAPP, 654 cu ft (307 sx) Prem Lite @ 12.1 ppg, 2.13 yld, 70 cu ft (50 sx) Type III @ 14.6 ppg, 1.39 yld. 40 bbls cement back.
	Regulatory Mancos	5515	Logs: Cased Hole Pulsed Neutron (RMT) & CBL
	Gallup >	6181	
	Greenhorn >	6917	to surface casing
	Graneros Shale >	6973	
	Dakota >	6998'	
			FC = 7275'
4-1/2", 11.6#, N-80 LT&C - 7319' to Surface		7316' TVD 7320' MD	
AFE #	CO 1312 913	REGULATORY	J McMillan
EV #	57025.004	ENGINEER	R Trueheart / L Diede
API #	30-039-31215	GEOLOGIST	G Kowalczyk
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AV