

30-039-31210 ENERVEST OPERATING, LLC					
Jicarilla Contract 155 # 23E (As Completed)					
TYPE	Dakota/MV	RIG	TBD	DATE	25-Aug-2014
FIELD	Tapicito	COUNTY	Rio Arriba	ELEVATION	6508' GL; 6521' KB
GAS/OIL	Gas/Oil	MUD	LSND	BHT/BHP	155 deg- <1600 psi
LOCATION	SHL: 671' FSL & 671' FWL Unit M, Sec 32, T26N, R5W			SHL: Long: -107.388839, Lat: 36.43769, (NAD 27)	
	BHL: Same as SHL			BHL: same as SHL	
COMMENTS: OBJECTIVE FORMATION: Dakota and Mesa Verde					
NOTES:					

				DEPTH					
				TVD					

Surface Section

12 1/4" Hole >

8-5/8", 24#, J-55, ST&C

Production Section

7 7/8" Hole to TD >

Production Tubing: 2 3/8" 4.7# J-55 set @ 7083', SN @ 7081'

Ojo Alamo >

Kirtland >

Fruitland Coal >

Pictured Cliffs >

Lewis Shale >

Chacra

Marker Jt 4479'-4486' >>>>

Cliffhouse >

Menefee >

Point Lookout >

Mancos >

(Regulatory MancoS) >

Gallup >

Greenhorn >

Graneros Shale >

Dakota >

FC >>>>

4-1/2", 11.6#, N-80 LT&C - To Surface >>>>

TD >>>>

523'

2166'

2202'

2357'

2645'

2754'

2838'

3637'

4100'

4408'

4477'

4904'

5088'

5404'

6108'

6865'

6916'

6941'

7221'

7271'

7280'

Cement to surface with 297 sx (413 cu ft) Type III cement, circ to surface

Stage Collar Cementing Tool Log Depth

Stage Collar Cementing Tool Log Depth

<< << << TOC 4518' CBL Log

Cement: Stg1, 1053 cu ft, 524 sx Prem Lite HS @ 12.5 ppg, yld 2.01, 50bbl cement returns; Stg2, 575 cu ft, 270 sx Prem Lite @ 12.1 ppg, 2.13 yld + 70 cu ft, 50 sx Type III @ 14.6, 1.38 yld, 30 bbls cement returns; Stg3 654 cu ft, 307 sx Prem Lite @ 12.1, 2.01 yld, + 70 cu ft, 50 sx Type III @ 14.6, 1.38 yld, 15 bbl cement returns.

Logs: As Directed By Geologist
Cased-hole GR / Neutron after casing
GR/ CBL

Cement to surface in 3 stages.

AFE #	CO 1312 915	REGULATORY	J McMillan	(713) 970-1847
EV #	57025.003	ENGINEER	R Trueheart / L Diede	(713) 495 1561 / (505) 334 8867
API #	30-039-31216	GEOLOGIST	G Kowalczyk	(713) 495 6590