



PA Wellbore For State - Vertical

Well Name: TIMMERMAN 15-13

Original Hole [Land]		Well Header								
MD (ftK B)	Vertical schematic (actual)	Surface UWI 0512321607		Business Unit Rockies		Gov Auth Dist		Prod Tree Loc Land		
		Orig. KB to Gnd (ft) 12.00	Original Spud Date 10/14/2003	Abandon Date		Well Sub-Status TA (AT SURFACE)		High...		
		Comment LIMITED ENTRY ORIGINAL FRAC. NIOB REFRAC POST JOB RPT LISTS NIOB C PERF'D 7040-7060', BUT NOT LISTED ON TREATMENT RPT OR ST FORM 5A. ??? FIELD OPS NOTICE- FLOWLINES ABANDONED, RCVD 6/28/17. STATE SHOWS SHUT IN SINCE NOV 2016.								
		Geologic Horizons								
		Formation Name FOXHILLS-BASE PROD						Final Top MD (ftKB) 473.3		
		Formation Name UPPER PIERRE AQUIFER-TOP PROD						Final Top MD (ftKB) 630.6		
		Formation Name UPPER PIERRE AQUIFER-BASE PROD						Final Top MD (ftKB) 1,560.8		
		Formation Name A SAND-TOP PROD						Final Top MD (ftKB) 2,505.6		
		Formation Name A SAND-BASE PROD						Final Top MD (ftKB) 3,071.7		
		Formation Name SUSSEX-TOP PROD						Final Top MD (ftKB) 4,241.3		
		Formation Name SUSSEX-BASE PROD						Final Top MD (ftKB) 4,587.3		
		Formation Name SHANNON-TOP PROD						Final Top MD (ftKB) 5,037.4		
		Formation Name SHANNON-BASE PROD						Final Top MD (ftKB) 5,192.6		
		Formation Name INTRA SHARON SPGS MK						Final Top MD (ftKB) 6,839.9		
		Formation Name NIOBRARA-TOP PROD						Final Top MD (ftKB) 6,880.2		
		Formation Name NIO A CHALK						Final Top MD (ftKB) 6,880.6		
		Formation Name NIO A MARL						Final Top MD (ftKB) 6,898.6		
		Formation Name NIO B CHALK						Final Top MD (ftKB) 6,957.2		
		Formation Name NIO B MARL						Final Top MD (ftKB) 6,988.5		
		Formation Name NIO C CHALK						Final Top MD (ftKB) 7,038.9		
		Formation Name NIO C MARL						Final Top MD (ftKB) 7,068.2		
		Formation Name NIO D CHALK						Final Top MD (ftKB) 7,112.4		
		Formation Name NIO FT HAYS						Final Top MD (ftKB) 7,146.9		
		Formation Name CODELL						Final Top MD (ftKB) 7,170.0		
		Formation Name CARLILE						Final Top MD (ftKB) 7,188.4		
		Formation Name GREENHORN						Final Top MD (ftKB) 7,233.0		
		Surface Location (Congressional)								
		Qtr 3 SW	Qtr 4 SE	Section 13	Twnshp 4	Twnsh... N	Range 65	Rng E/... W	Latitude (°) 40.306372	Longitude (°) -104.60685
		Wellbore Sections								
		Section Des		Hole Size (in)		Top Depth (ftKB)		Btm Depth (ftKB)		
		SURFACE		12 1/4		12.0		640.0		
		PRODUCTION		7 7/8		640.0		7,353.0		
		Casing Strings								
		Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top Depth (MD) (ftKB)	Set Depth (MD) (ftKB)		
		Surface	10/15/2003	8 5/8	24.00	I-80	12	631		
		Production Casing	10/21/2003	4 1/2	11.60	I-80	12	7335		
		Cement								
		Des		Start Date		Top (ftKB)		Btm (ftKB)		
		SURFACE CASING CEMENT		10/15/2003		12.0		631.0		
		PRODUCTION CASING CEMENT		10/21/2003		1,938.0		5,240.0		
		PRODUCTION CASING CEMENT		10/21/2003		6,204.0		7,335.0		
		Stim/Frac Summary								
		Min Top Depth (ftKB) 6,882.0					Max Btm Depth (ftKB) 7,188.0			

12.1 Surface Casing Cement, Casing, 10/15/2003 00:00; 12-631; 2003-10-15

629.6

630.9

640.1

831.0

1,938.0

2,386.2

2,485.9

2,487.9

4,165.0

4,192.9

5,240.2

6,204.1

6,806.1

6,834.0

6,881.9

6,898.0

6,972.1

6,987.9

7,040.0

7,060.0

7,154.9

7,155.8

7,157.2

7,173.9

7,188.0

7,319.9

7,320.5

7,333.7

7,335.0

7,353.0

Production Casing Cement, Casing, 10/21/2003 00:00; 1938-5240; 2003-10-21; SPORADIC CEMENT 3100 TO 2310; MISSING CEMENT INFO FROM 3300 TO 3100

Production Casing Cement, Casing, 10/21/2003 00:00; 6204-7335; 2003-10-21; PUMPED 96 SXS SPACER 6,882.0-6,898.0ftKB on 3/14/2007 00:00

(Perforated); 6882-6898; 2007-03-14

6,882.0-6,898.0ftKB on 10/28/2003 00:00

(Perforated); 6882-6898; 2003-10-28

6,972.0-6,988.0ftKB on 3/14/2007 00:00

(Perforated); 6972-6988; 2007-03-14

6,972.0-6,988.0ftKB on 10/28/2003 00:00

(Perforated); 6972-6988; 2003-10-28

7,040.0-7,060.0ftKB on 3/14/2007 00:00

(Perforated); 7040-7060; 2007-03-14

7,174.0-7,188.0ftKB on 6/26/2006 00:00

(Perforated); 7174-7188; 2006-06-26

7,174.0-7,188.0ftKB on 10/28/2003 00:00

(Perforated); 7174-7188; 2003-10-28



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