

Well Name: Wilmerding 9-3

API/UWI 3004533440	Surface Legal Location	Field Name Basin(New Mexico)	License # 000000	State/Province New Mexico	Well Configuration Type Land
Original KB Elevation (ft) 5,813.00	KB-Tubing Head Distance (ft)	Spud Date 7/25/2007 00:00	Rig Release Date	PBTD (All) (ftKB) Original Hole - 2,196.0	Total Depth All (TVD) (ftKB)

MD (ftKB)	Vertical schematic (actual)	Zone (Contact Interval)
7.8	No.3-1; Des:Tubing Hanger; OD:6.34 in; ID:2.00 in; Top MD:14.0 ftKB; Btm MD:14.5 ftKB	
14.1		
14.4	No.3-1; Des:Polished Rod; OD:1 1/4 in; Depth MD:8.0-24.0 ftKB; Length:16.00 ft	
16.1		
24.0	No.3-2; Des:Sucker Rod; OD:3/4 in; Depth MD:24.0-28.0 ftKB; Length:4.00 ft	
27.9		
36.1	No.3-3; Des:Sucker Rod; OD:3/4 in; Depth MD:28.0-36.0 ftKB; Length:8.00 ft	
316.3		
317.3	Des:Surface Casing Cement; Depth MD:16.0 -380.0 ftKB; Date:7/28/2007	Des:Perforated; Depth MD:910.0 ftKB; Date:4/28/2009
328.9		Des:Perforated; Depth MD:1,782.0 ftKB; Date:8/29/2007
329.9	Des:Surface; OD:9 5/8 in; Wt.:38.00 lb/ft; Grade:J-55; Btm MD:360.0 ftKB	Des:Perf; Depth MD:1,780.0-1,787.0 ftKB; Date:12/15/2017
910.1		Des:Perforated; Depth MD:1,787.0 ftKB; Date:8/29/2007
960.0	Des:Cement; Depth MD:16.0-910.0 ftKB; Date:4/29/2009	Des:Perf; Depth MD:1,885.0-1,888.0 ftKB; Date:12/15/2017
1,640.1		Des:Perforated; Depth MD:1,893.0 ftKB; Date:8/28/2007
1,661.7	Des:Squeeze cement job; Depth MD:16.0-910.0 ftKB; Date:4/29/2009	Des:Perf; Depth MD:1,892.0-1,896.0 ftKB; Date:12/15/2017
1,770.9		Des:Perforated; Depth MD:1,907.0 ftKB; Date:8/28/2007
1,782.2	No.3-4; Des:Sucker Rod; OD:3/4 in; Depth MD:36.0-2,061.0 ftKB; Length:2,025.00 ft	Des:Perf; Depth MD:1,906.0-1,908.0 ftKB; Date:12/15/2017
1,787.1		Des:Perf; Depth MD:1,923.0-1,925.0 ftKB; Date:12/15/2017
1,884.8	Des:Production Casing Cement; Depth MD:980.0-2,245.0 ftKB; Date:7/29/2007	Des:Perforated; Depth MD:1,924.0 ftKB; Date:8/28/2007
1,886.2		Des:Perf; Depth MD:2,013.0-2,018.0 ftKB; Date:12/15/2017
1,892.1		Des:Perforated; Depth MD:2,016.0 ftKB; Date:8/28/2007
1,899.0		Des:Perforated; Depth MD:2,022.0 ftKB; Date:8/28/2007
1,899.0		Des:Perf; Depth MD:2,024.0-2,036.0 ftKB; Date:12/15/2017
1,905.8		Des:Perforated; Depth MD:2,034.0 ftKB; Date:8/28/2007
1,907.2		Des:Perforated; Depth MD:2,038.0 ftKB; Date:8/28/2007
1,908.1		
1,922.9	No.3-5; Des:Rod Centralizer; OD:1 1/4 in; Depth MD:2,061.0-2,065.0 ftKB; Length:4.00 ft	
1,923.9		
1,924.9	No.5-3; Des:Pump Seating Nipple; OD:2 3/8 in; ID:1.80 in; Top MD:2,065.5 ftKB; Btm MD:2,066.5 ftKB	
2,010.1		
2,016.1	No.3-6; Des:Rod Pump; OD:2 in; Depth MD:2,065.0-2,077.0 ftKB; Length:12.00 ft	
2,018.0		
2,022.0	No.5; Des:Tubing - Production; OD:2 3/8 in; ID:1.80 in; Top MD:14.0 ftKB; Btm MD:2,103.0 ftKB	
2,024.0		
2,024.9	Des:Bridge Plug (Permanent); OD:6.37 in; Top MD:2,186.0 ftKB; Btm MD:2,196.0 ftKB	
2,034.1		
2,036.1	Des:Plug Back Total Depth; Depth MD:2,196.0 ftKB; Date:7/31/2007	
2,048.9		
2,061.0	Des:Production Casing Cement (plug); Depth MD:2,196.0-2,245.0 ftKB; Date:7/29/2007	
2,065.0		
2,065.8		
2,069.6		
2,069.6		
2,070.5		
2,077.1		
2,094.5		
2,102.4		
2,103.0		
2,186.0		
2,186.9		
2,189.9		
2,202.0		
2,243.8	Des:Production Casing; OD:7 in; Wt.:23.00 lb/ft; Grade:N-80; Btm MD:2,245.0 ftKB	
2,246.1		

OIL CONS. DIV DIST. 3

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Casing Strings						
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Top (ft)(B)	Set Depth (ft)(B)
Surface	9 5/8	36.00	J-55	EXT-UPSET	16.0	360.0
Production Casing	7	23.00	N-80	LT&C	16.0	2,245.0

Cement

Description	Comment
Surface Casing Cement	190 sx, circ cmt to surface
Description	Comment
Production Casing Cement	440 sx, did not circ cmt to surface, TOC @ 980' (CBL)
Description	Comment
Cement Squeeze	sqz holes @ 910', circ cmt to surface

Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)
4/28/2009	910.0	910.0	4.0
12/15/2017	1,780.0	1,787.0	3.0
8/29/2007	1,782.0	1,782.0	3.0
8/29/2007	1,787.0	1,787.0	3.0
12/15/2017	1,885.0	1,888.0	3.0
8/28/2007	1,886.0	1,886.0	3.0
12/15/2017	1,892.0	1,896.0	3.0
8/28/2007	1,893.0	1,893.0	3.0
12/15/2017	1,906.0	1,908.0	3.0
8/28/2007	1,907.0	1,907.0	3.0
12/15/2017	1,923.0	1,925.0	3.0
8/28/2007	1,924.0	1,924.0	3.0
12/15/2017	2,013.0	2,018.0	3.0
8/28/2007	2,016.0	2,016.0	3.0
8/28/2007	2,022.0	2,022.0	3.0
12/15/2017	2,024.0	2,036.0	3.0
8/28/2007	2,025.0	2,025.0	3.0
8/28/2007	2,034.0	2,034.0	3.0
8/28/2007	2,038.0	2,038.0	3.0

Tubing Strings

Tubing Description		Run Date	String Length (ft)		Set Depth (ftKB)		
Tubing - Production		1/11/2018	2,089.00		2,103.0		
Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	Grade	Wt (lb/ft)
1	Tubing Hanger	6.33	0.50	14.0	14.5		
64	Tubing	2 3/8	2,051.0	14.5	2,065.5	J-55	4.70
1	Pump Seating Nipple	2 3/8	1.00	2,065.5	2,066.5		
1	Tubing	2 3/8	4.00	2,066.5	2,070.5	J-55	4.70
1	Wirewrap Screen	2 3/8	24.00	2,070.5	2,094.5		
1	Tubing	2 3/8	8.00	2,094.5	2,102.5	J-55	4.70
1	Bull Plug	2 3/8	0.50	2,102.5	2,103.0		

Rod Strings

Rod Description Rod		Run Date 1/11/2018	String Length (ft) 2,069.00		Set Depth (ftKB) 2,077.0	
Jts	Item Des	OD (in)	Len (ft)	Top (ftKB)	Btm (ftKB)	
1	Polished Rod	1 1/4	16.00	8.0	24.0	
1	Sucker Rod	3/4	4.00	24.0	28.0	
1	Sucker Rod	3/4	8.00	28.0	36.0	
81	Sucker Rod	3/4	2,025.00	36.0	2,061.0	
1	Rod Centralizer	1 1/4	4.00	2,061.0	2,065.0	
1	Rod Pump	2	12.00	2,065.0	2,077.0	