



Downhole Well Profile - with Schematic

Well Name: Berger A 02S

OIL CONS. DIV DIST. 3

JUN 16 2015

API/UWI 30045329850000	XTO Accounting ID 68314	Permit Number	State/Province New Mexico	County San Juan
Location T26N-R11W-S21	Spud Date 3/11/2006 00:00	Original KB Elevation (ft) 6,241.00	Ground/Corrected Ground Elevation (ft) 6,228.00	KB-Ground Distance (ft) 13.00

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
9.8	9.8	0.0	
21.0	21.0	0.1	
42.0	42.0	0.2	
242.5	242.4	0.9	
341.9	341.8	0.7	
516.1	516.0	0.6	
1,342.2	1,291.0	47.6	
1,382.2	1,315.5	52.8	
1,416.0	1,336.2	57.2	
1,417.3	1,337.0	57.4	
1,440.9	1,347.8	60.7	
1,491.5	1,369.4	68.0	
1,517.4	1,380.2	71.6	
1,529.9	1,383.4	72.5	
1,536.7	1,385.2	73.0	
1,581.7	1,396.7	76.4	
1,586.0	1,397.8	76.7	
1,741.8	1,425.2	83.2	
2,012.5	1,434.9	87.3	
2,287.1	1,437.2	90.1	
2,607.0	1,438.7	89.5	
2,881.2	1,440.3	90.2	
2,955.1	1,440.1	90.2	
3,022.0	1,440.2	89.5	

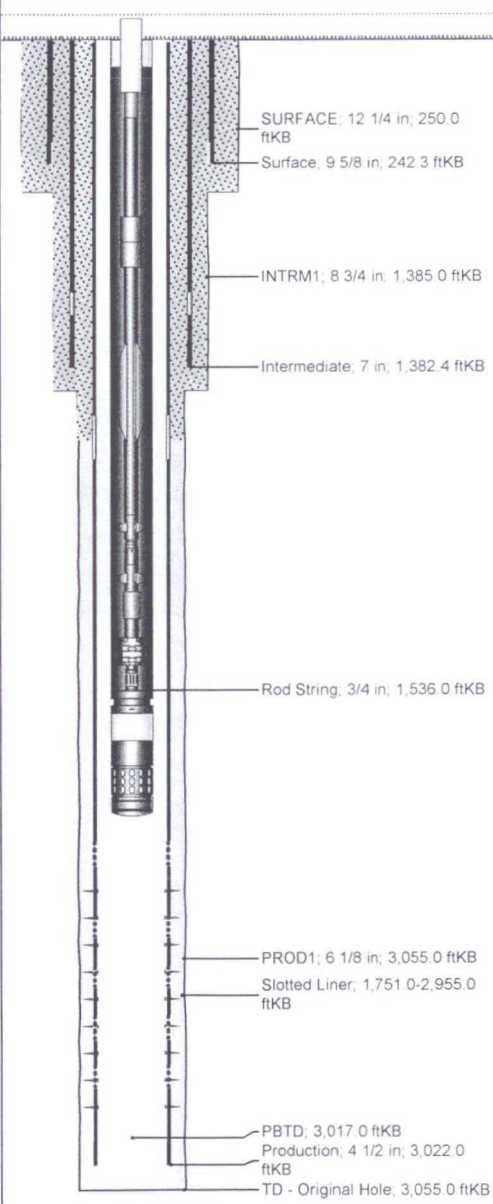
Wellbores							
Wellbore Name Original Hole		Parent Wellbore Original Hole		Wellbore API/UWI			
Start Depth (ftKB) 13.0		Profile Type		Kick Off Depth (ftKB)			
Section Des		Size (in)	Act Top (ftKB)	Act Btm (ftKB)			
SURFACE		12 1/4	13.0	250.0			
INTRM1		8 3/4	250.0	1,385.0			
PROD1		6 1/8	1,385.0	3,055.0			
Zones							
Zone Name		Top (ftKB)	Btm (ftKB)	Current Status			
Fruitland Coal		1,751.0	2,955.0				
Casing Strings							
Csg Des	Set Depth (ftKB)	OD (in)	Wt/Len (lb/ft)	Grade			
Surface	242.3	9 5/8	36.00	J-55			
Intermediate	1,382.4	7	20.00	J-55			
Production	3,022.0	4 1/2	11.60	J-55			
Cement							
Des		Type		String			
Surface Casing Cement		Casing		Surface, 242.3ftKB			
Intermediate Casing Cement		Casing		Intermediate, 1,382.4ftKB			
Production Casing Cement		Casing		Production, 3,022.0ftKB			
Tubing Strings							
Tubing Description Tubing - Production		Run Date 2/20/2013		Set Depth (ftKB) 1,586.0			
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Tubing Sub	2 3/8	4.70	J-55	1	8.10	13.0	21.1
Tubing	2 3/8	4.70	J-55	46	1,514.85	21.1	1,536.0
Seat Nipple	2 3/8			1	0.75	1,536.0	1,536.7
Tubing Sub	2 3/8	4.70	J-55	1	12.00	1,536.7	1,548.7
Tubing	2 3/8	4.70	J-55	1	32.90	1,548.7	1,581.6
Perforated Sub	2 3/8			1	4.10	1,581.6	1,585.7
Bull Plug	2 3/8			1	0.30	1,585.7	1,586.0
Rod Strings							
Rod Description Rod String		Run Date 2/20/2013		Set Depth (ftKB) 1,536.0			
Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Polished Rod	1 1/4			1	16.00	10.0	26.0
Rod Sub	3/4		D	3	16.00	26.0	42.0
Sucker Rod	3/4		D	12	300.00	42.0	342.0
4-Sinker Bars w/5 - 7/8 stbs	1 1/4		C	4	120.00	342.0	462.0
2-Sinker Bars w/1 - 7/8 stbs	1 1/4		C	2	54.00	462.0	516.0
Sucker Rod w/Molded Guides	3/4		D	37	925.00	516.0	1,441.0



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516.1	516.0	0.6	
1,342.2	1,291.0	47.6	
1,382.2	1,315.5	52.8	
1,416.0	1,336.2	57.2	
1,417.3	1,337.0	57.4	
1,440.9	1,347.8	60.7	SURFACE; 12 1/4 in; 250.0 ftKB Surface; 9 5/8 in; 242.3 ftKB INTRM1; 8 3/4 in; 1,385.0 ftKB Intermediate; 7 in; 1,382.4 ftKB Rod String; 3/4 in; 1,536.0 ftKB PROD1; 6 1/8 in; 3,055.0 ftKB Slotted Liner; 1,751.0-2,955.0 ftKB PBTD; 3,017.0 ftKB Production; 4 1/2 in; 3,022.0 ftKB TD - Original Hole; 3,055.0 ftKB
1,491.5	1,369.4	68.0	
1,517.4	1,380.2	71.6	
1,529.9	1,383.4	72.5	
1,536.7	1,385.2	73.0	
581.7	1,396.7	76.4	
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2,607.0	1,438.7	89.5	
2,881.2	1,440.3	90.2	
2,955.1	1,440.1	90.2	
3,022.0	1,440.2	89.5	

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)	Top (ftKB)	Btm (ftKB)
Sucker Rod w/Molded Guides	3/4		D	2	50.00	1,441.0	1,491.0
Shear Tool - 21K	3/4			1	0.50	1,491.0	1,491.5
Sucker Rod w/Guides	3/4		97	1	25.00	1,491.5	1,516.5
Lift Sub	1			1	1.00	1,516.5	1,517.5
Spiral Rod Guide	3/4			1	0.50	1,517.5	1,518.0
Rod Insert Pump	1 1/2			1	12.00	1,518.0	1,530.0
Gas Anchor	3/4			1	6.00	1,530.0	1,536.0

Other In Hole				
Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Perforations			
Date	Top (ftKB)	Btm (ftKB)	Zone
	1,751.0	2,955.0	Fruitland Coal, Original Hole

Stimulations & Treatments						
Frac #	Top Perf (ftKB)	Bottom Perf (ftKB)	AIR (bbl/min)	MIR (bbl/min)	TWP (bbl)	Total Proppant (lb)