Hilcorp Energy Comp	oany
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**Current Schematic** 

## Well Name: GRENIER A #4E

API/UWI 300452488	7	Surface Legal Location 026-030N-010W-F	Field Name BASIN DAKOTA (PR	ORATED GAS)	Route 0305	State/Provin		Well Configuration Type		
Ground Elevation (ft)		Original KB/RT Elevation (ft) KB-Ground Distance (ft)				Casing Flange Distance (ft) KB-Tubing Hang		er Distance (ft)		
6,132.00		6,144.00	12.0	10						
			Original Ho	le, 7/30/2019 2:3	32:07 PM					
	TVD	TVD Vertical schematic (actual)								
MD (ftKB)	(ftKB)			vertical schem						
12.1		Tubing Hanger; 7 1/16 i								
13.1		Tubing; 2 3/8 in; 4.70 lb/	ftKB; 13.00 ftKB ft: J-55: 13.00 ftKB:							
42.0			41.95 ftKB							
49.9		Tubing Pup Joint; 2 3/8	3 in; 4.70 lb/ft; J-55; 95 ftKB; 49.95 ftKB							
58.1		Tubing Pup Joint; 2 3/8	3 in; 4.70 lb/ft; J-55;			Curfooo	Casing Cama	at: 10.00.017.00;		
67.9		49. Tubing Pup Joint; 2 3/8	95 ftKB; 57.95 ftKB					nt; 12.00-217.00; with 136 sxs Class B		
204.7		57.	95 ftKB; 67.95 ftKB			cement.	Circulated 10	bbls to surface.		
206.4		1; Surface; 10 3/4 in; 1	0.19 in; 12.00 ftKB; 206.42 ftKB							
216.9			200.42 1110	\$1515	2012/2			ement; 310.00-		
310.0								ed with 285 sxs Class / 6% gel, 1/4#		
1,482.9 2,341.9						flocele/S	X. Tailed with	75 sxs Class B		
2,341.9		- PICTURED CLIFFS (fina				6/10/19.	2% CaCl2. TO	C at 310' as per CBL		
2,808.7			op of Liner @ 2809'							
2,827.8										
2,927.5										
2,969.2		Or later and later to 7.5	10 100 0 07 100 000			Stims ar	d Treats; 7/3/2	2019; FRAC EQUIP,		
2,970.1		2; Intermediate1; 7 5	ftKB; 2,970.00 ftKB					PUMP 70% Q 00,840# 40/70		
3,436.0		Tubing; 2 3/8 in; 4.70 lb/	ft; J-55; 67.95 ftKB;		<b>.</b>	-SAND F	ORMATION I	BROKE @ 1450, -		
3,692.9		-	7,122.77 ftKB		<b>.</b>			SI 4950, MAX BH		
4,319.9						ISIP VAC	CCUM , TOTA	L N2, 2313604 SCF		
4,482.9		— MENEFEE (final) ———				RD	3BL 1634, WE	ELL ON VACCUM , SI,		
4,613.8		PERF - MESAVERDE;						nent; 2,808.70- cemented with 710		
4,984.9 5,191.9			6/17/2019					s B cement. Circ 10		
5,393.0		— MANCOS (final) ———			×	bbls. All	good cement a	as per CBL 5/16/81.		
6,210.0		~BALLUP (final)								
6,761.2										
6,955.1		— GREENHORN (final) —			<b>.</b>					
7,002.0		Tubing Pup Joint; 2 3/8	3 in: 4.70 lb/ft: J-55:		×					
7,045.9	* <sup>0</sup>	7,122.77	ftKB; 7,124.71 ftKB							
7,122.7		PERF DAKOTA;	7,046.00-7,212.00; 5/19/1981					9/1981; Frac'd with # gelled 1 % KCI		
7,124.7		Tubing; 2 3/8 in; 4.70	lb/ft; J-55; 7,124.71			water &	53,000 # 20/40	) sand. (First attempt		
7,131.9		D Seating Nipple; 2 3/	ftKB; 7,156.31 ftKB	109K	100 N		was shut dov . Re-perf 3 ho	les and 2nd attempt		
7,156.2 7,157.5			7,157.41 ftKB				as successful)			
7,157.5		Mule Shoe/XCK; 2 3/	8 in; 7,157.41 ftKB; 7,158.27 ftKB							
7,211.9		L		200						
7,254.9			PBTD; 7,255.00			Producti	on Casing Cer	nent (plug); 7,263.00-		
7,263.1		Fill; 7,255.00-7,2	263.00; HARD FILL		www.in	7,303.00	; 3/20/1981; C	emented with 710		
7,264.1								s B cement. Circ 10 as per CBL 5/16/81.		
7,296.9										
7,297.9		3; Production1; 4 1/2 i	n; 4.00 in; 2,808.63 _ ftKB; 7,297.76 ftKB							
7,303.1				\$1 <mark>\$1</mark> 878888						
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