

**SURFACE CASING CHECK**

Well Name  Haley Pad

X New Drill  Refiling  Deepen  Re-Enter  Recomplete and Operate  Plug and Abandon  Casing Repair  Disposal

SB5 Base of Fox Hills  N/A

Cheyenne Basin Map Base of Fox Hills \_\_\_\_\_

Fox Hills Protection Area 5% Rule  347

Deepest Water Well w/in  1  Mile(s)  200

Operator-Proposed Surface Casing Depth  500

Actual Surface Casing Depth \_\_\_\_\_

Change Permit Surface Casing Depth from  500  to  800

OK on  this well's or X offset well's induction log at  790

Report Date: 11/18/2015

[Bedrock Aquifer Evaluation Determination Tool](#)

[Denver Basin Aquifer - Specific Location Determination Tool](#)

Applicant: Cub Creek Energy  
Haley Pad

Receipt No:

Evaluated By:

Location: NW 1/4 of SW 1/4 of Sec. 20, T.3N, R.68W. ( 1996 SSL, 690 WSL)

Basin Designation: Location is within the UNKNOWN Designated Ground Water Basin.

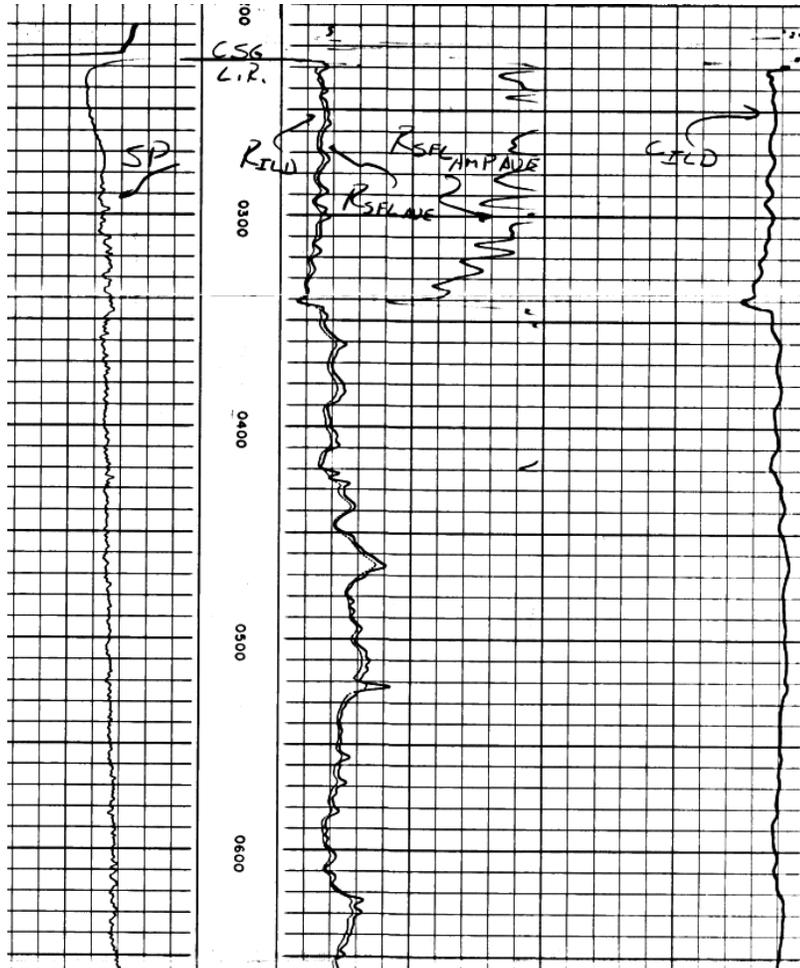
Ground Surface Elevation: 5078 Feet      Number of Acres: 160

Warning! The depth intervals estimated in this area may vary from actual conditions due to lack of data and/or structural complexity.

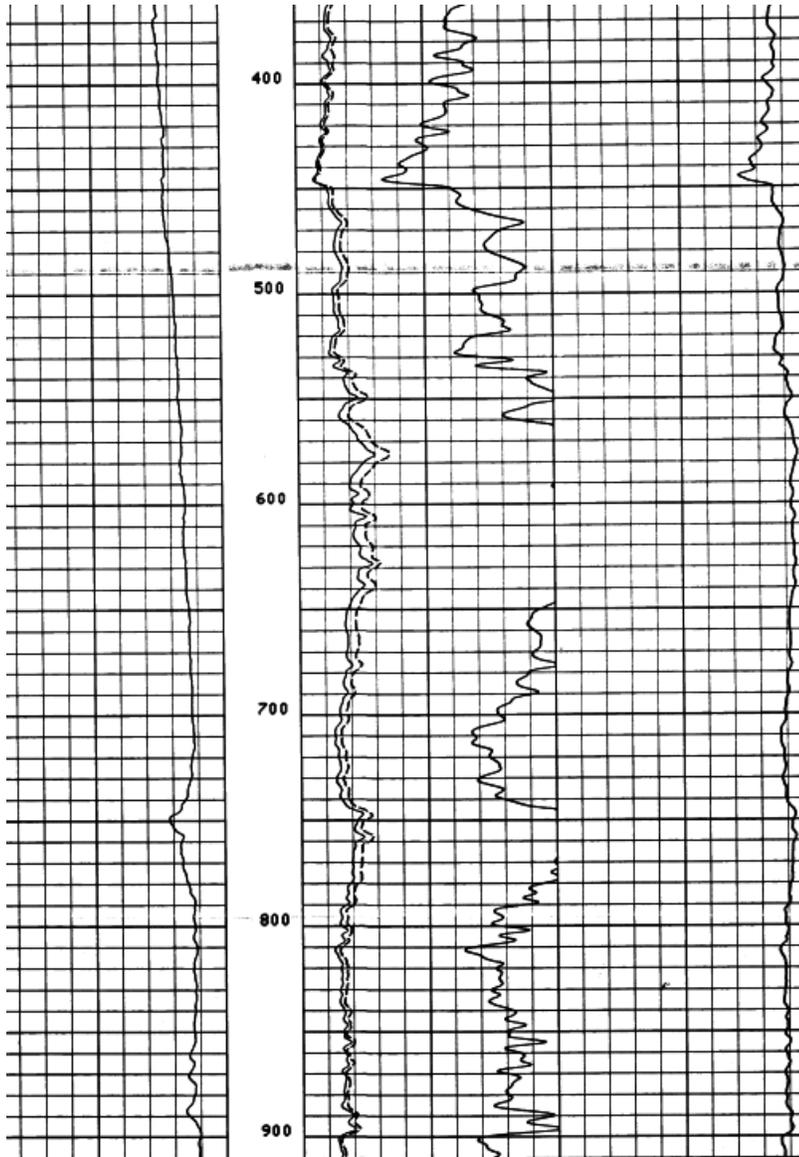
Aquifer	Elevation (ft)		Net Sand	DEPTH (ft)		ANNUAL APRPROP. (A-F)	STATUS
	Bot	Top		Bot	Top		
Upper Dawson	--	--	--	--	--	--	--
Lower Dawson	--	--	--	--	--	--	--
Denver	--	--	--	--	--	--	--
Upper Arapahoe	--	--	--	--	--	--	--
Lower Arapahoe	--	--	--	--	--	--	--
Laramie-Fox Hills	--	--	--	--	--	--	--

NOTE: 'E' indicates a location is at an aquifer boundary and the values may be more approximate.

Offset well HALEY #1 (123-10140) NWSW 20 3N 68W 6 PM



Offset well Runyan 1 (123-10614) SESE 17 3N68W, ~1 miles north east



Water wells within 1 mile of surface location:

Water Wells Selected From Map					
Filter Results by Depth		Greater than	Filter		
WELL DESCRIPTION	LOCATION	WELL INFORMATION			
		Depth	Top Perf	Bottom Perf	Aquifer
<a href="#">Receipt=9064562_Permit=0047610--</a> STROH RICHARD D	NENE 19 3 N-68W	0	0	0	GW
<a href="#">Receipt=9064617_Permit=0049062--</a> BOHRER KERMIT	NWNE 19 3 N-68W	0	0	0	GW
<a href="#">Receipt=9065074_Permit=0066127--</a> HALTER MARY	NWNE 19 3 N-68W	200	20	200	GW
<a href="#">Receipt=0015296_Permit=0015880-F-</a> KOLLAR ERNEST P.	NWNE 19 3 N-68W	0	0	0	GW
<a href="#">Receipt=0305530_Permit=0000085-G-</a> BENEDICT PHILLIP CHARLES	SWNE 19 3 N-68W	200	0	0	GW
<a href="#">Receipt=9065693_Permit=0082549--</a> CASH ROBERT J.	NESW 19 3 N-68W	100	0	0	GW