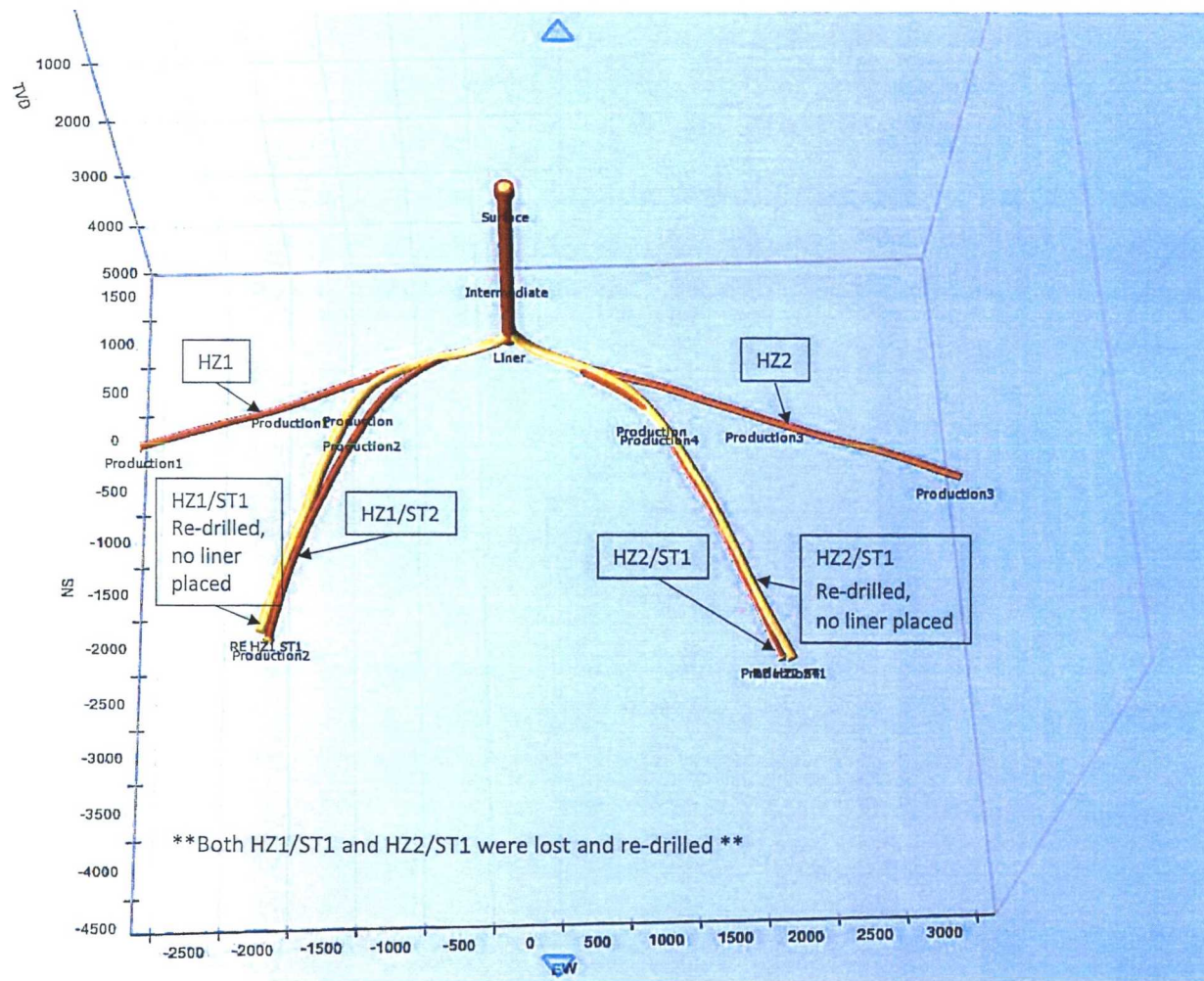


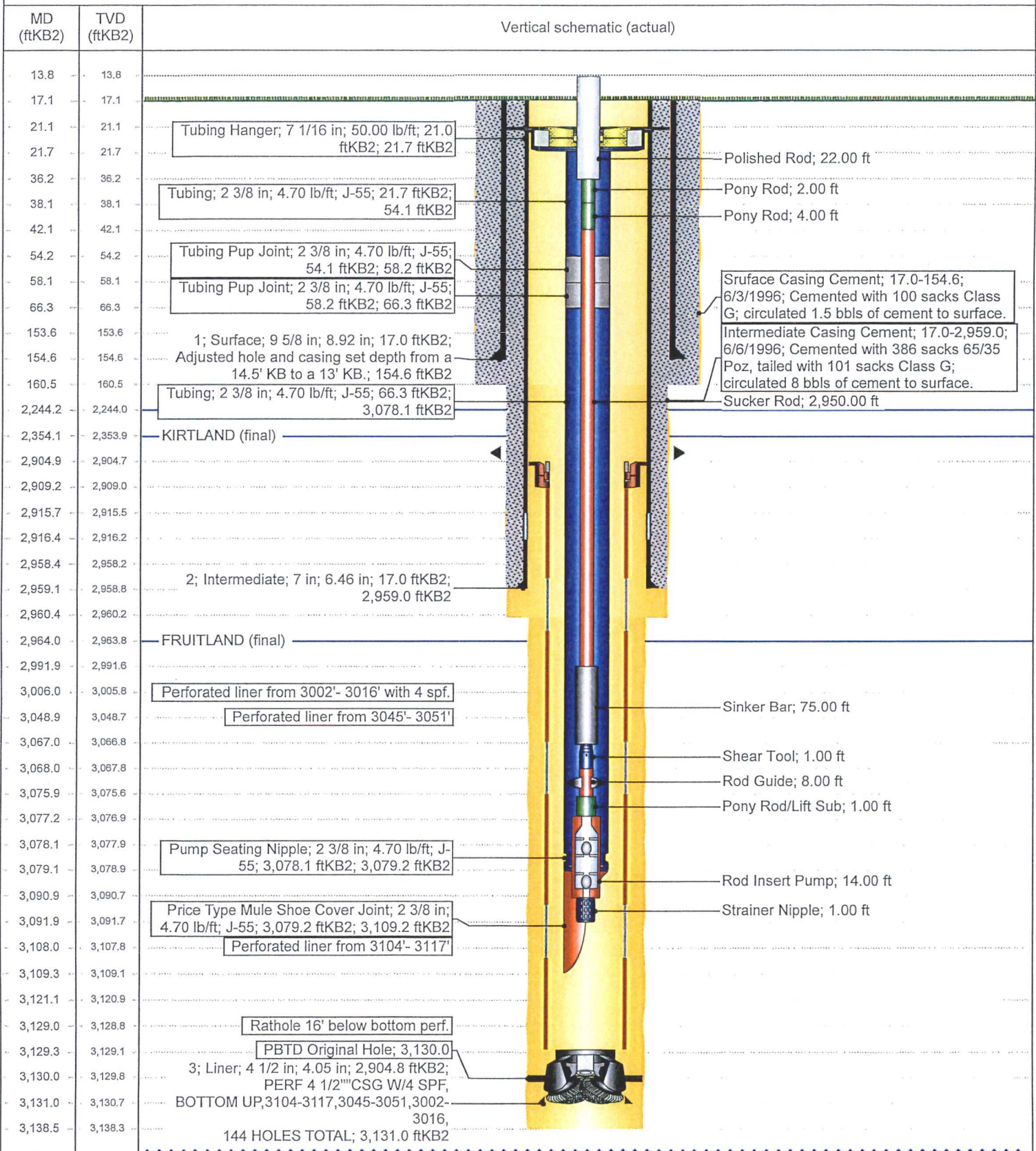
Allison Unit 145H
API: 30-045-29363



Well Name: **ALLISON UNIT #145**

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

VERTICAL, Original Hole, 8/10/2018 1:42:38 PM

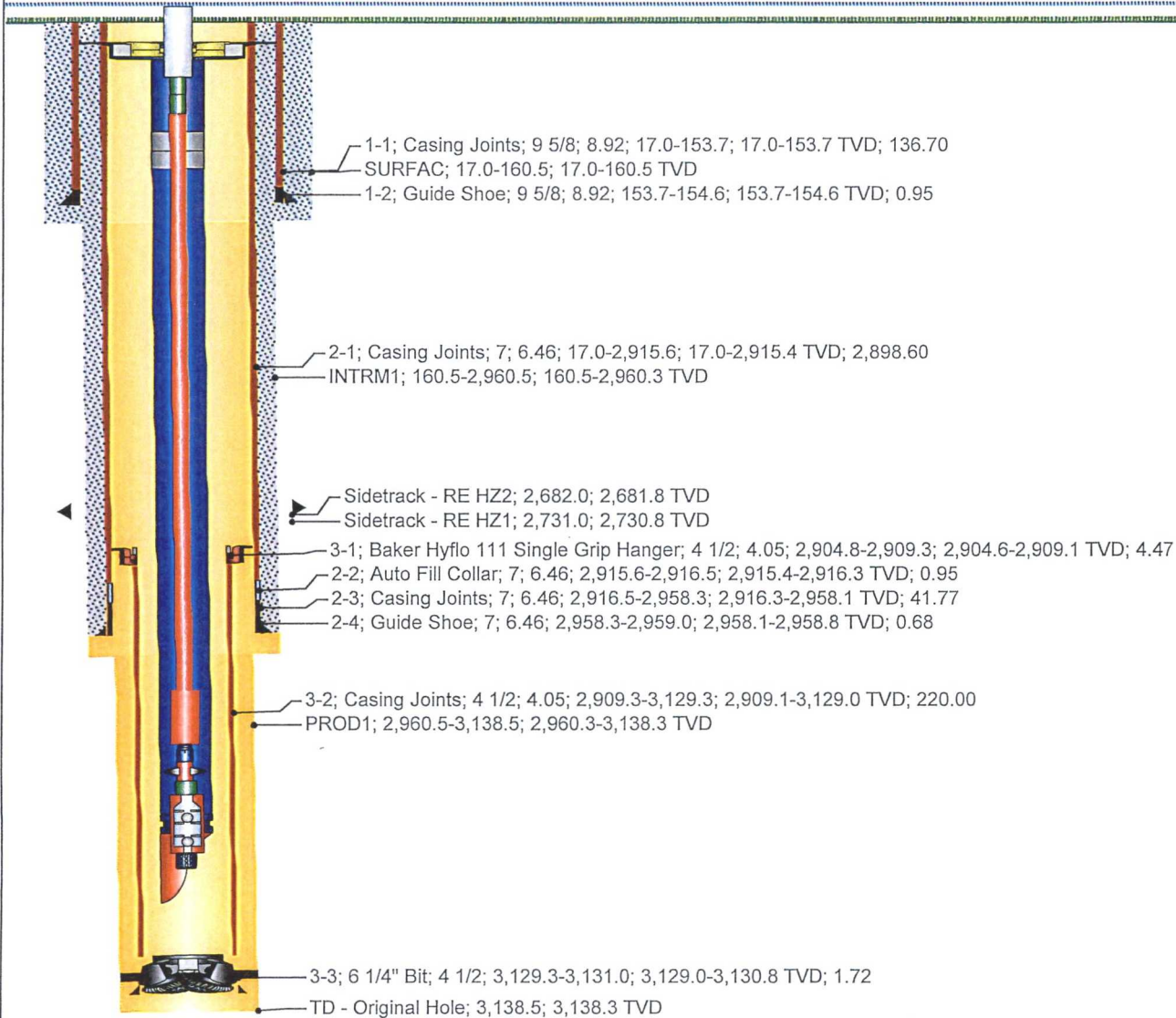


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, Original Hole, 8/10/2018 1:42:38 PM

Directional schematic (actual)





Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

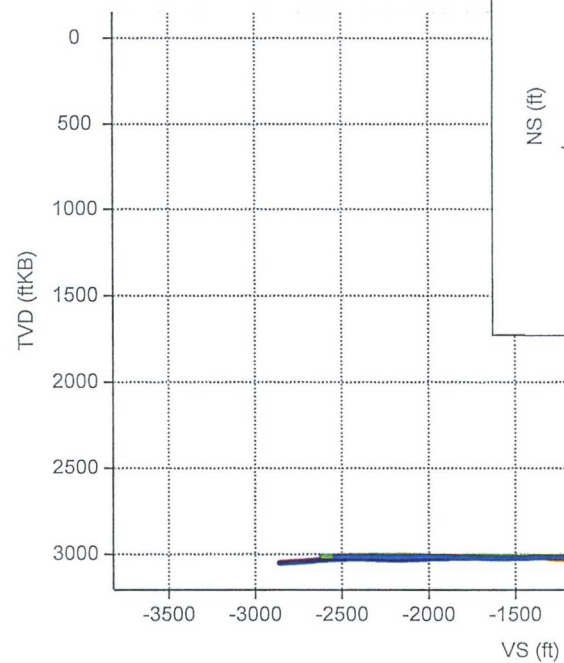
API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, Original Hole, 8/10/2018 1:51:51 PM

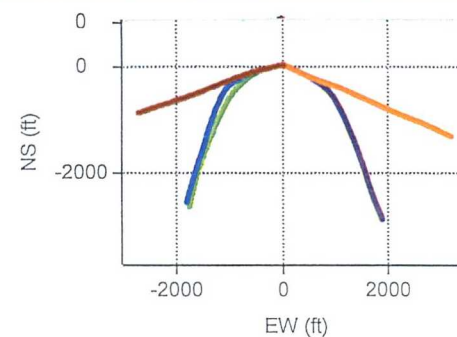
Directional Schematic (actual)



Vertical Section



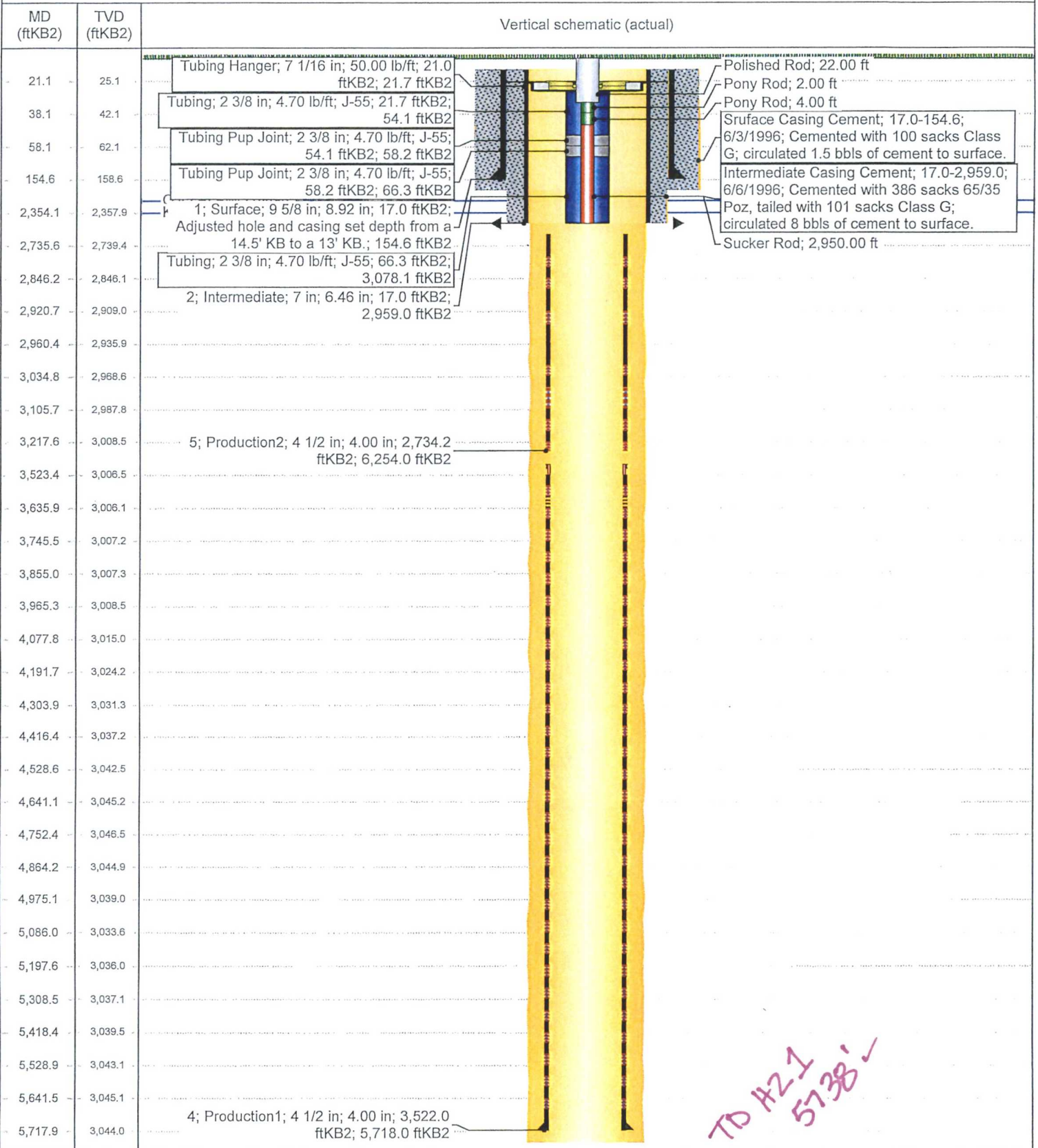
Plan



Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

VERTICAL, RE HZ1, 8/10/2018 1:42:38 PM

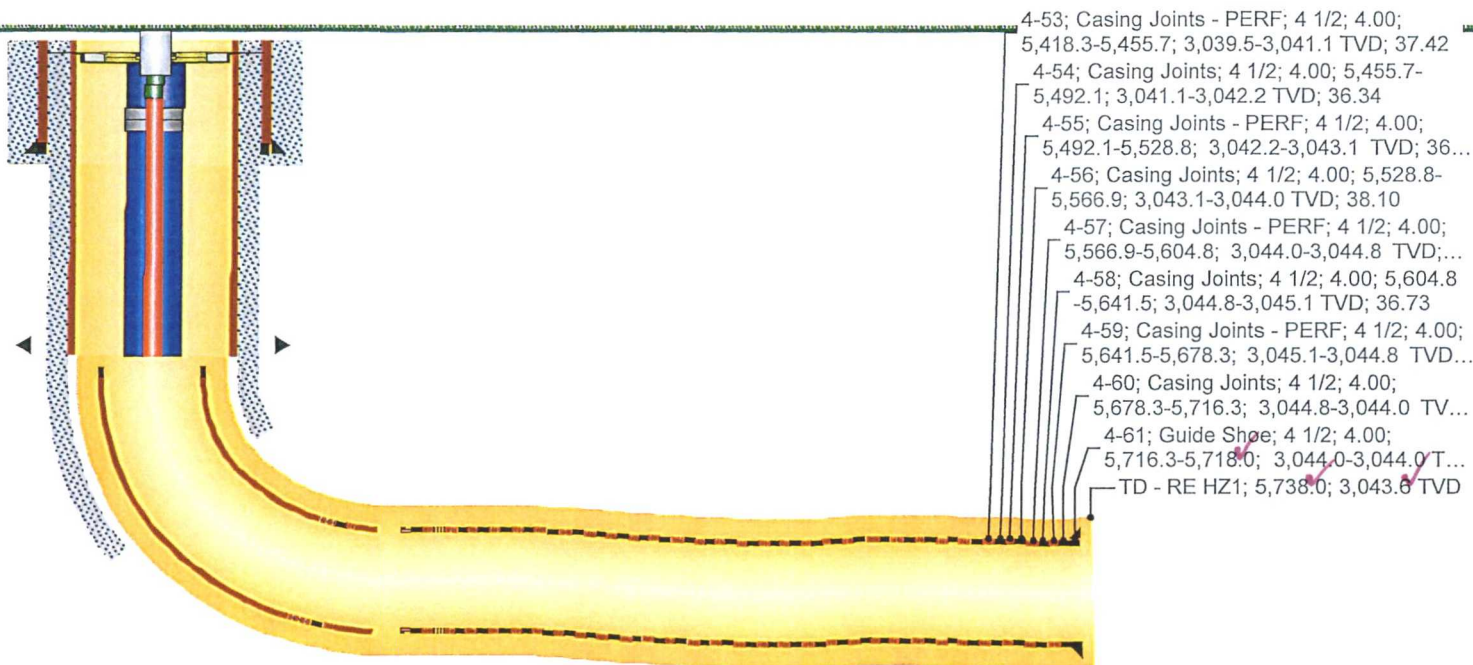


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ1, 8/10/2018 1:42:38 PM

Directional schematic (actual)



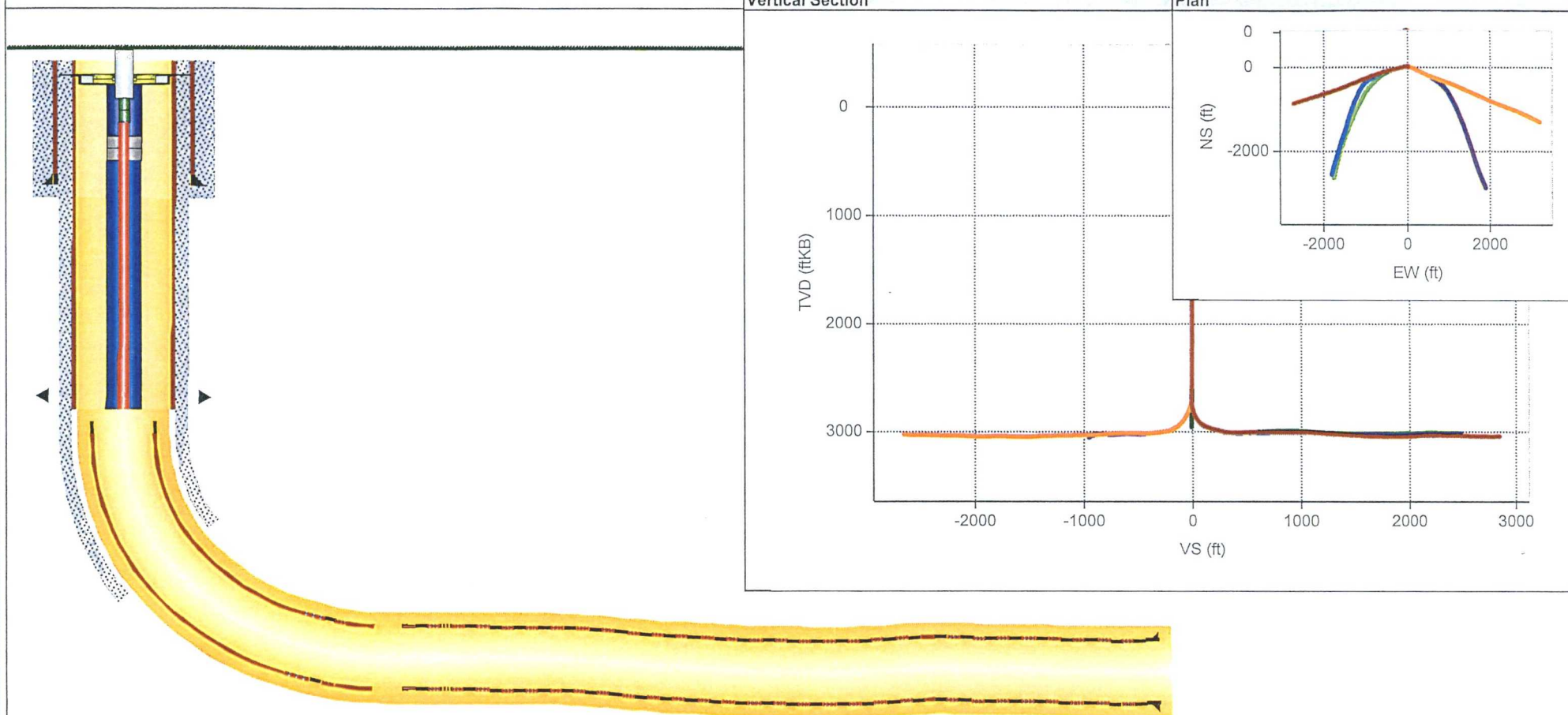
Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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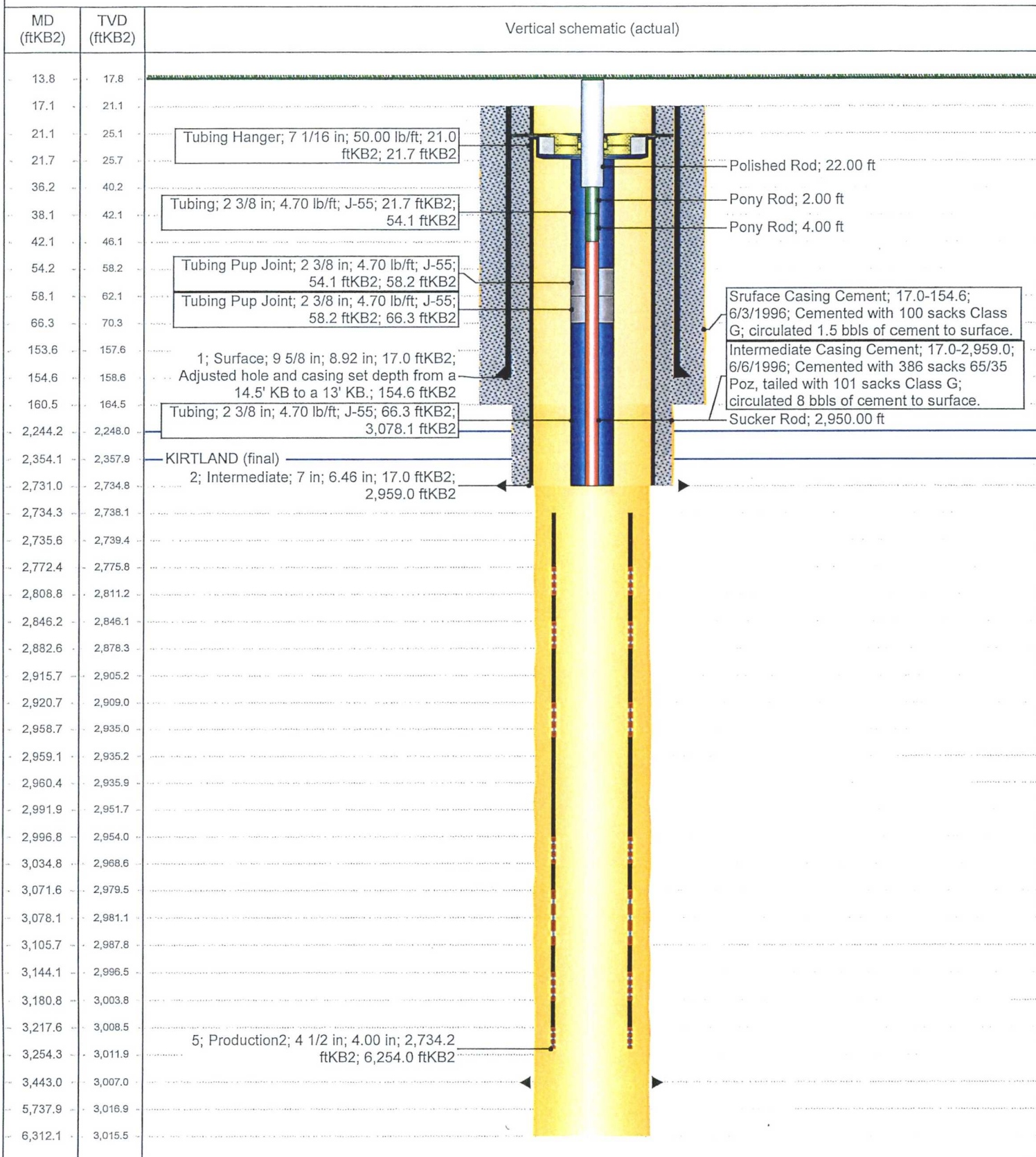
VERTICAL, RE HZ1, 8/10/2018 1:51:52 PM

Directional Schematic (actual)



Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL) #3046	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

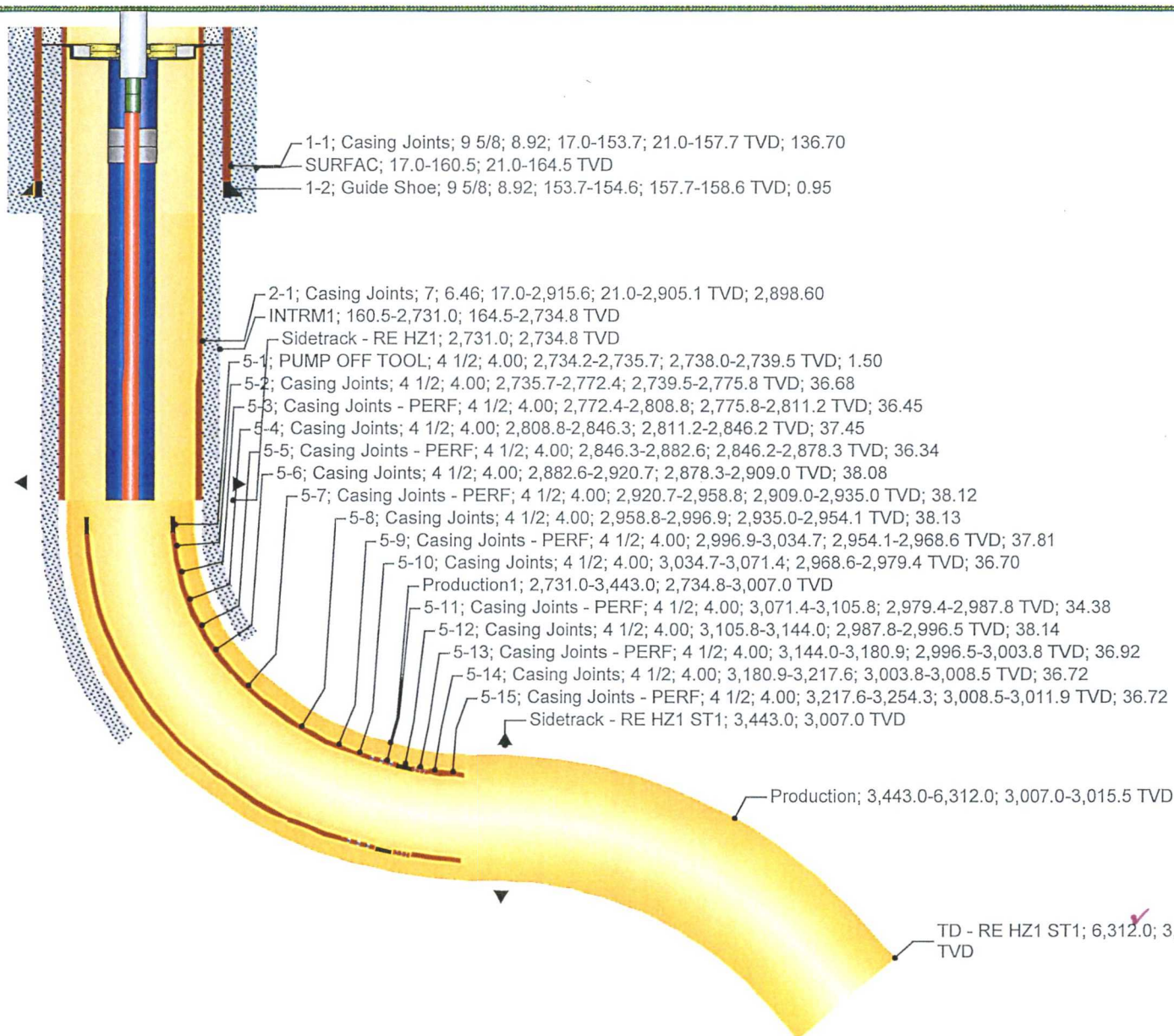
VERTICAL, RE HZ1 ST1, 8/10/2018 1:42:38 PM


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ1 ST1, 8/10/2018 1:42:38 PM

Directional schematic (actual)



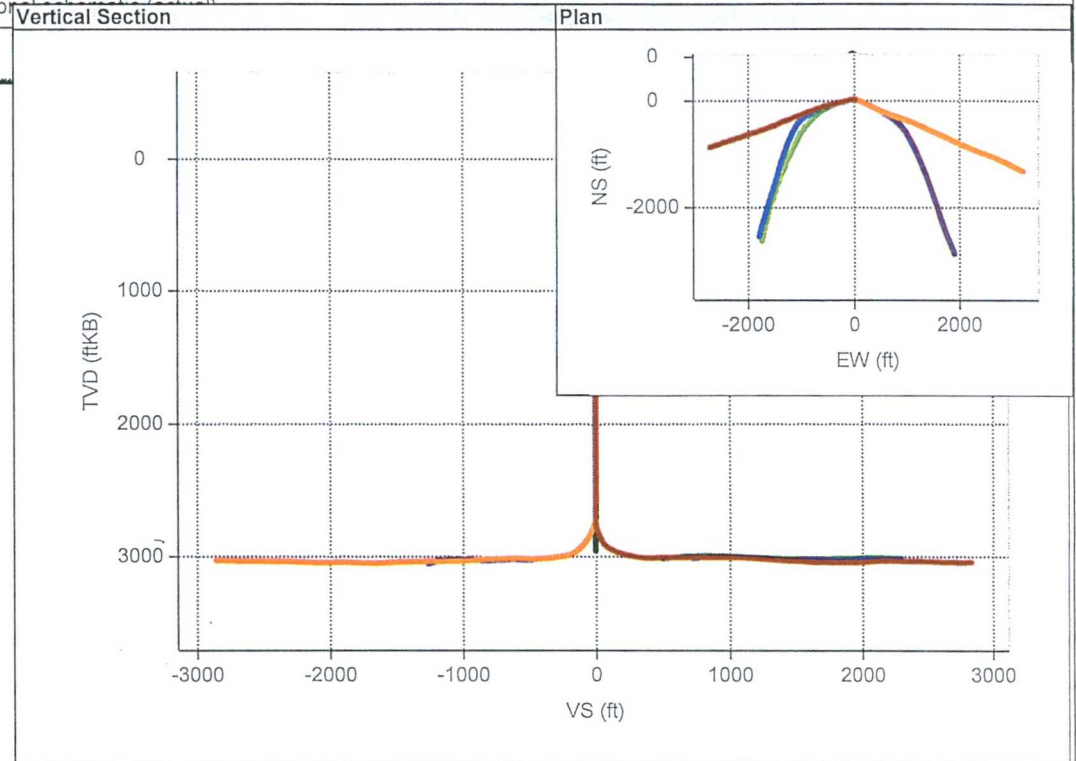
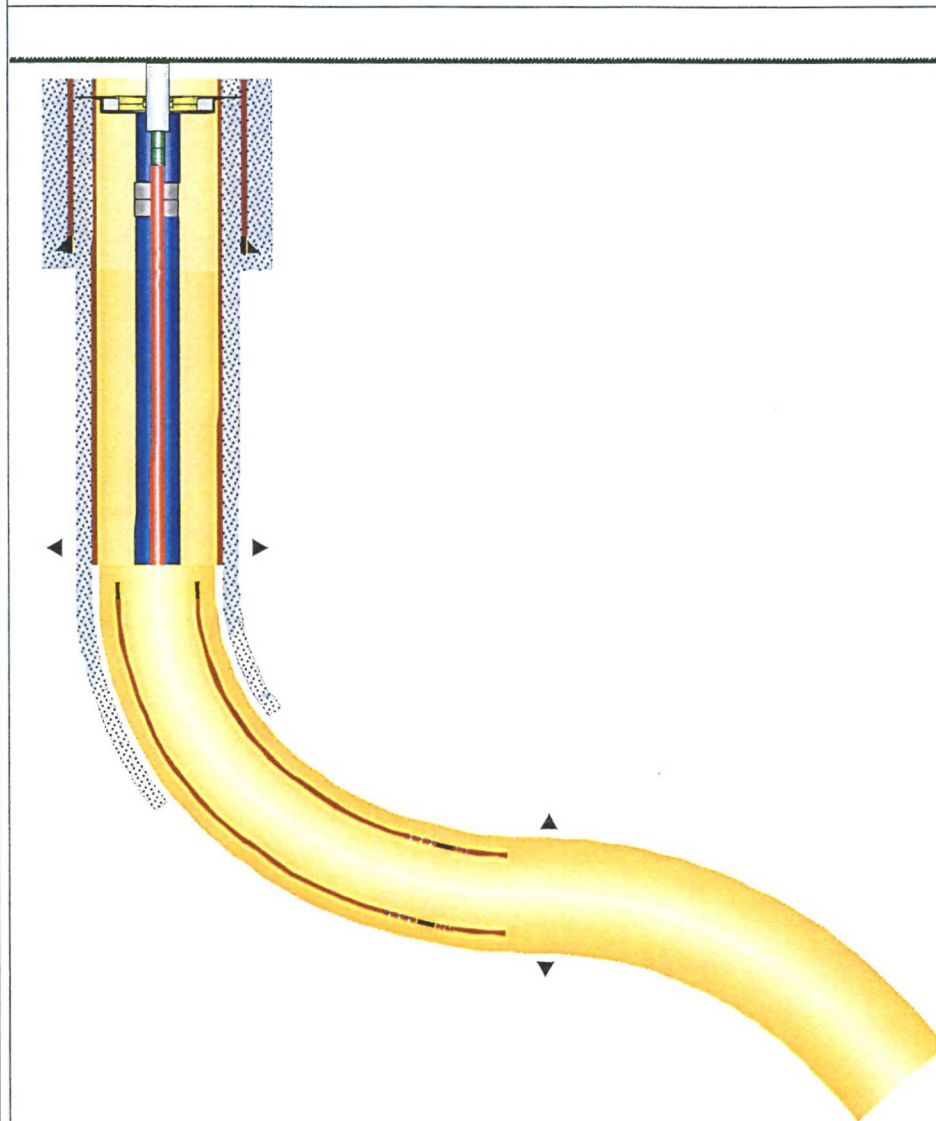
Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, RE HZ1 ST1, 8/10/2018 1:51:53 PM

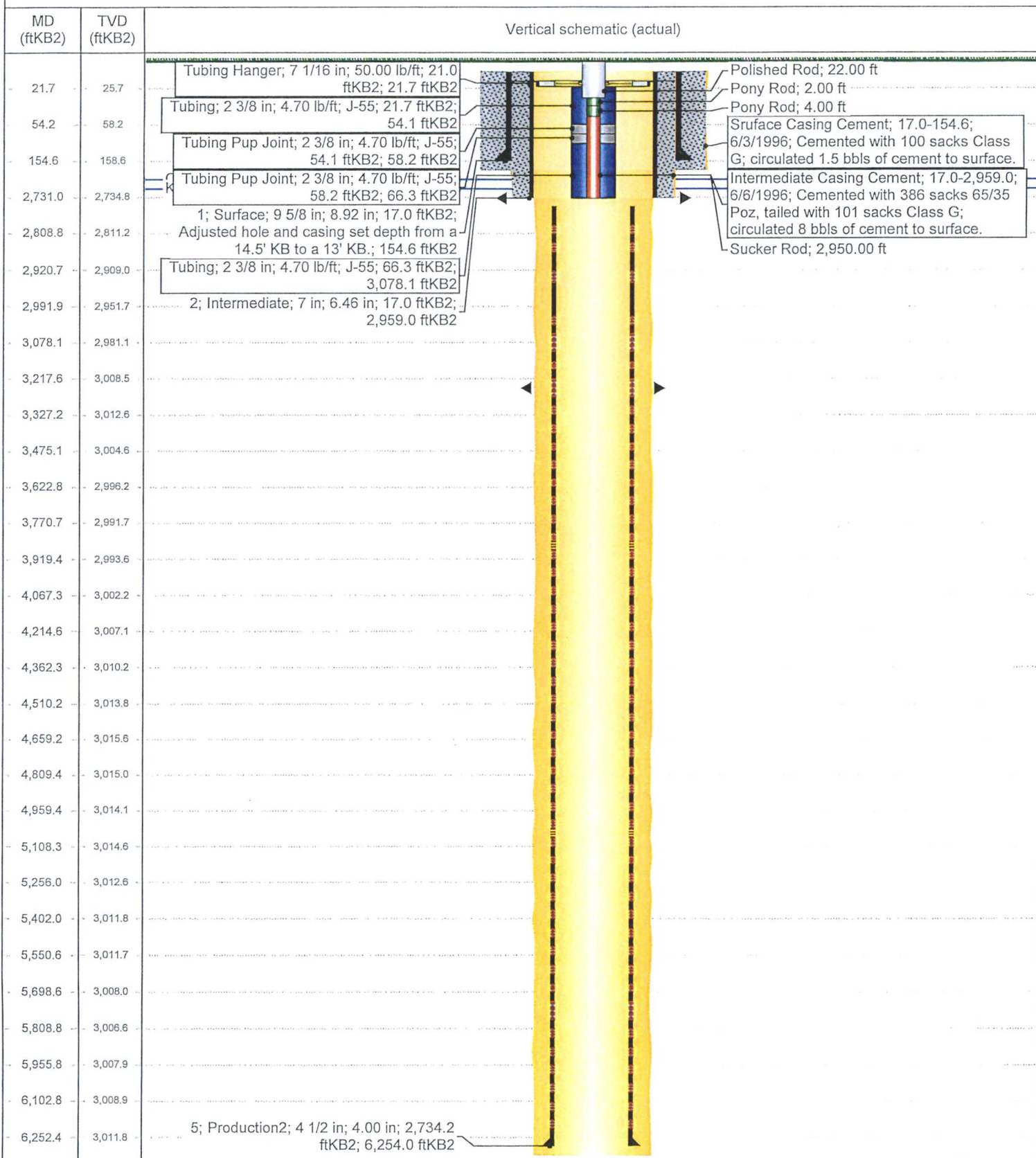
Directional Schematic / Survey Plot



Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

VERTICAL, RE HZ1 ST2, 8/10/2018 1:42:38 PM

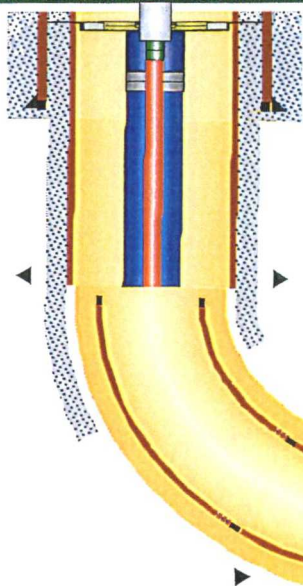


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ1 ST2, 8/10/2018 1:42:38 PM

Directional schematic (actual)



5-89; Casing Joints - PERF; 4 1/2; 4.00;
5,955.8-5,992.6; 3,007.9-3,007.8 TVD;...
5-90; Casing Joints; 4 1/2; 4.00; 5,992.6
-6,029.4; 3,007.8-3,007.9 TVD; 36.76
5-91; Casing Joints - PERF; 4 1/2;
4.00; 6,029.4-6,066.1; 3,007.9-3,008....
5-92; Casing Joints; 4 1/2; 4.00;
6,066.1-6,102.7; 3,008.4-3,008.9 TV...
5-93; Casing Joints - PERF; 4 1/2;
4.00; 6,102.7-6,139.5; 3,008.9-3,0...
5-94; Casing Joints; 4 1/2; 4.00;
6,139.5-6,177.6; 3,009.7-3,010.4...
5-95; Casing Joints - PERF; 4 1/2;
4.00; 6,177.6-6,215.8; 3,010.4-3,...
5-96; Casing Joints; 4 1/2; 4.00;
6,215.8-6,252.5; 3,011.2-3,011....
5-97; Float Shoe; 4 1/2; 4.00;
6,252.5-6,254.0; 3,011.6-3,011....
TD - RE HZ1 ST2; 6,274.0;
3,012.1 TVD

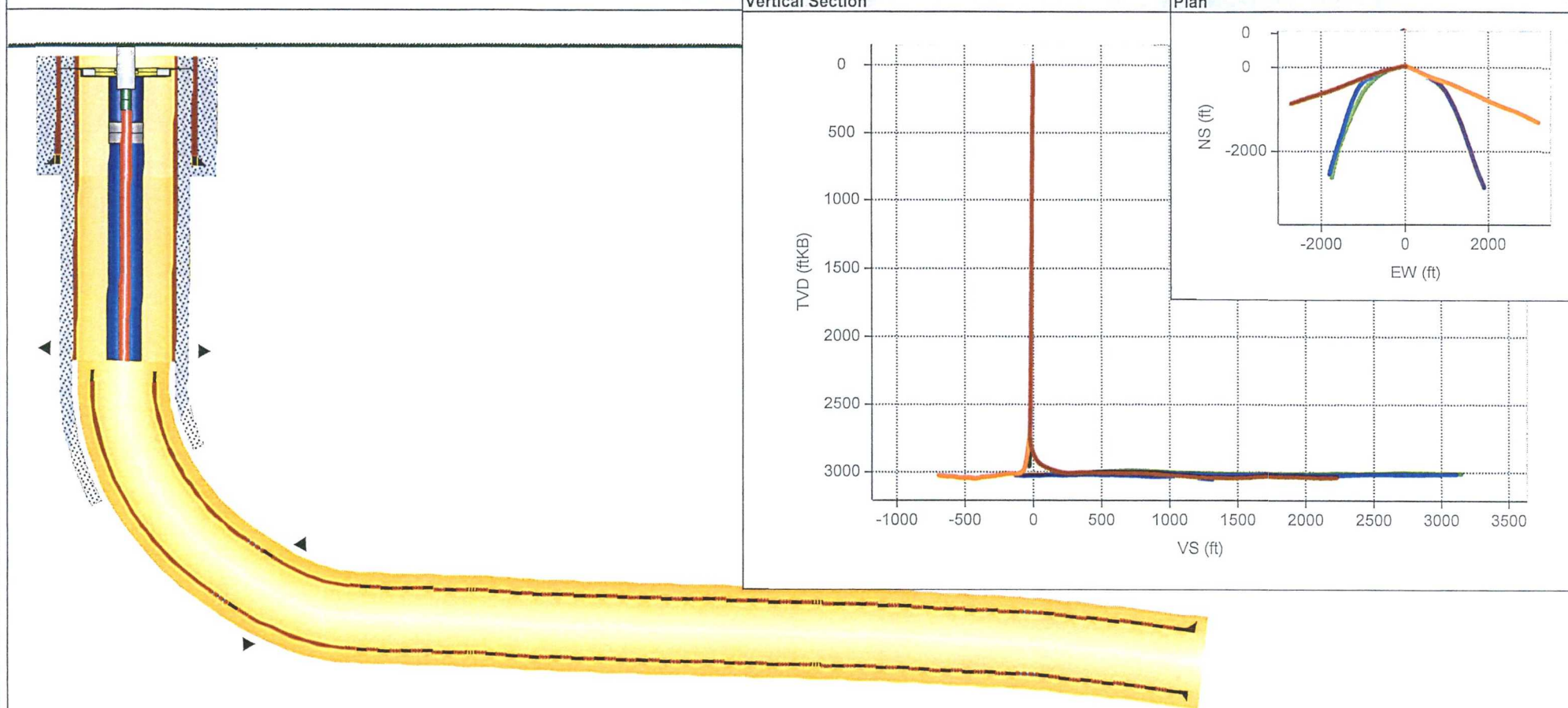
Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, RE HZ1 ST2, 8/10/2018 1:51:54 PM

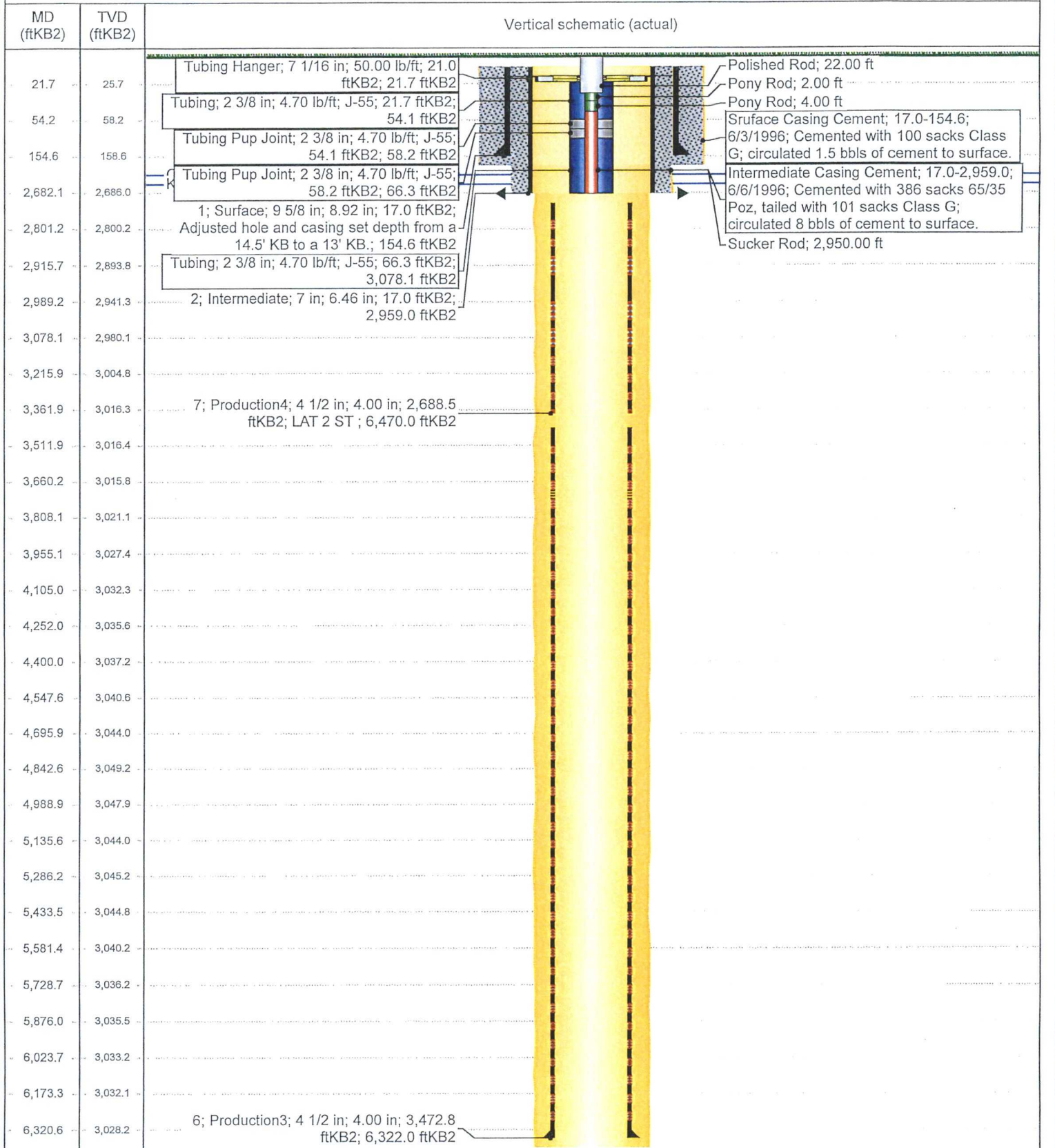
Directional Schematic (Actual)



Well Name: **ALLISON UNIT #145**

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

VERTICAL, RE HZ2, 8/10/2018 1:42:38 PM

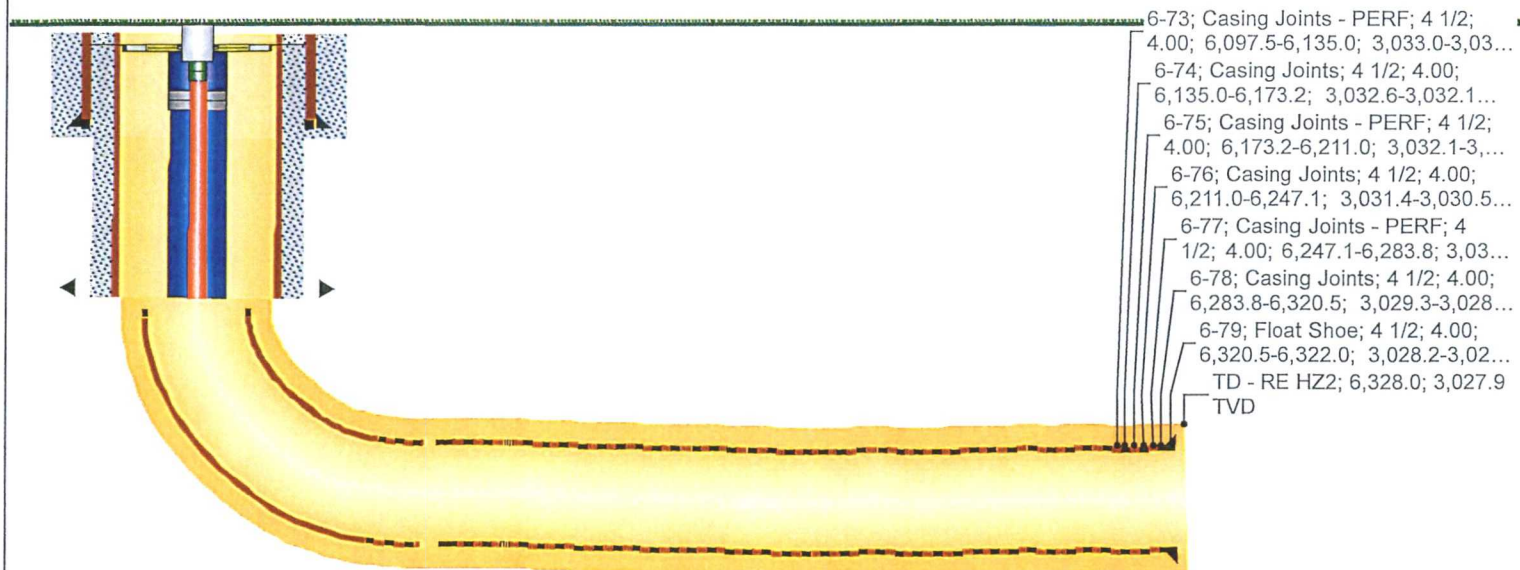


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ2, 8/10/2018 1:42:38 PM

Directional schematic (actual)





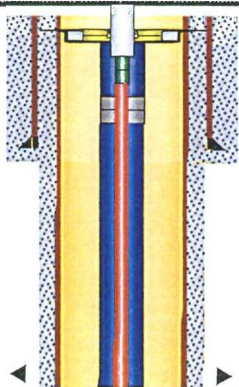
Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

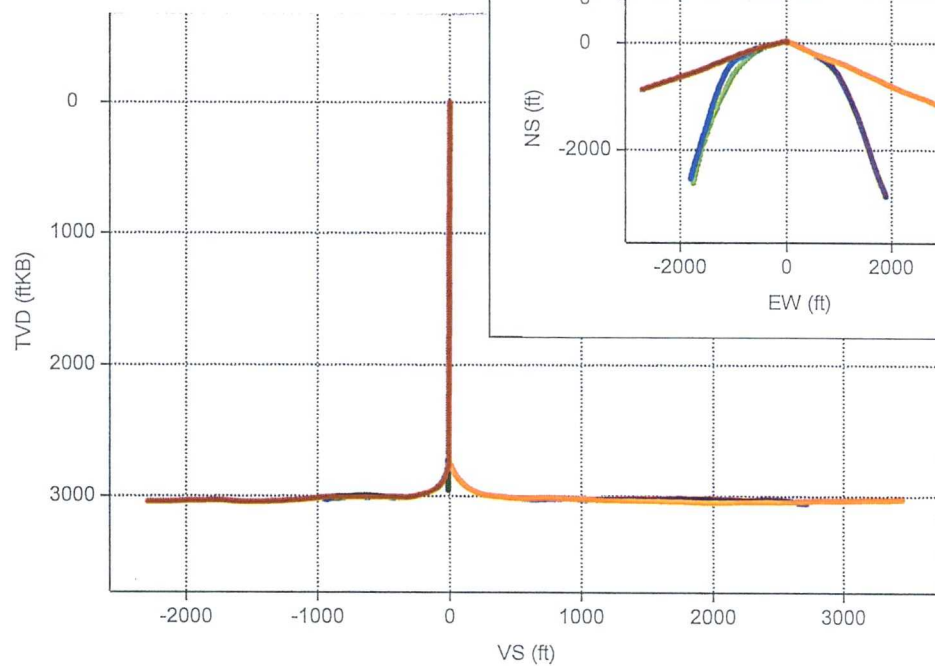
API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, RE HZ2, 8/10/2018 1:51:55 PM

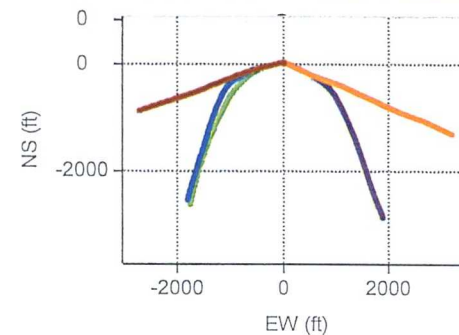
Directional Schematic (Actual)



Vertical Section



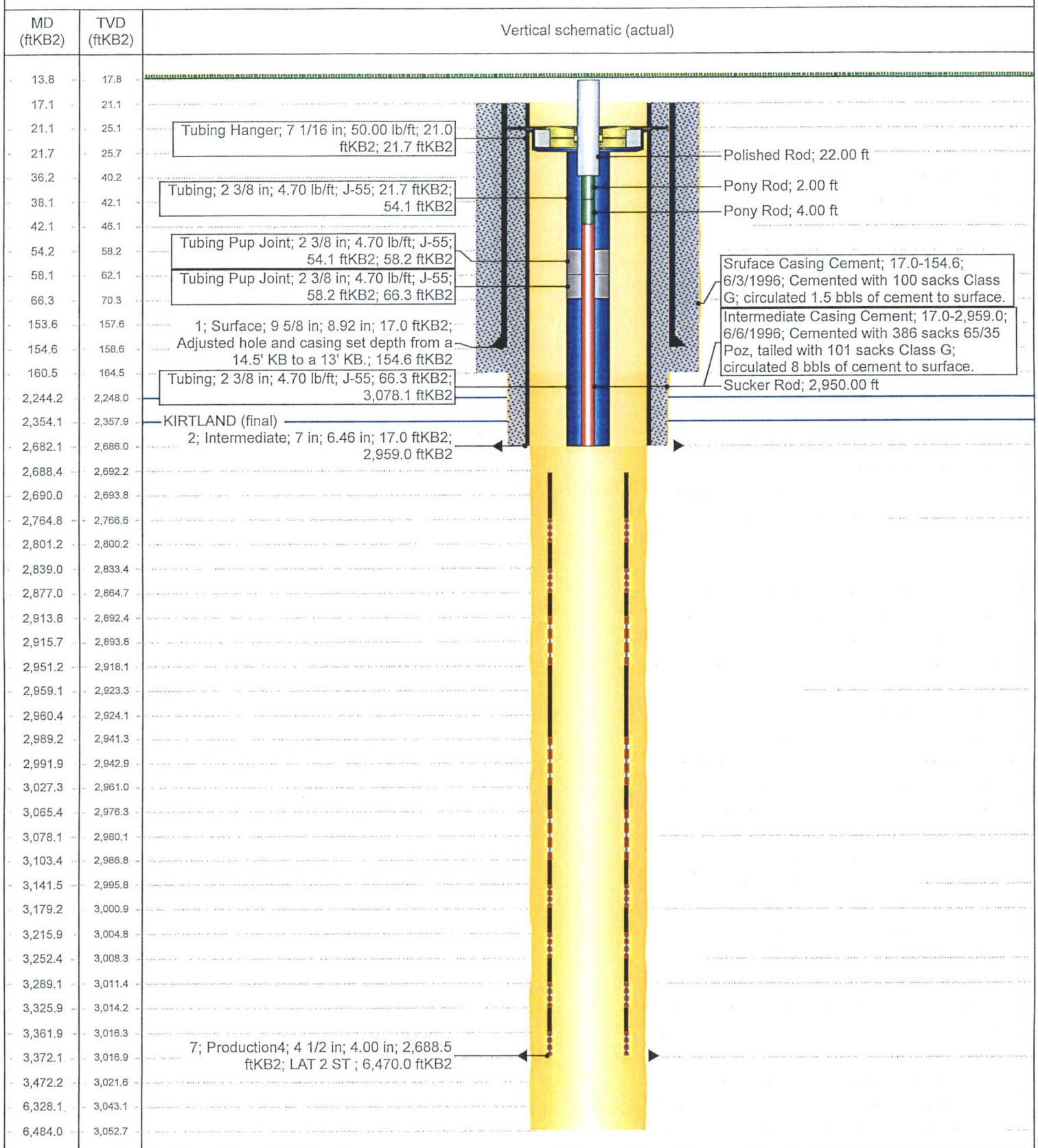
Plan



Well Name: **ALLISON UNIT #145**

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	#3046	License No.	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		

VERTICAL, RE HZ2 ST1, 8/10/2018 1:42:38 PM

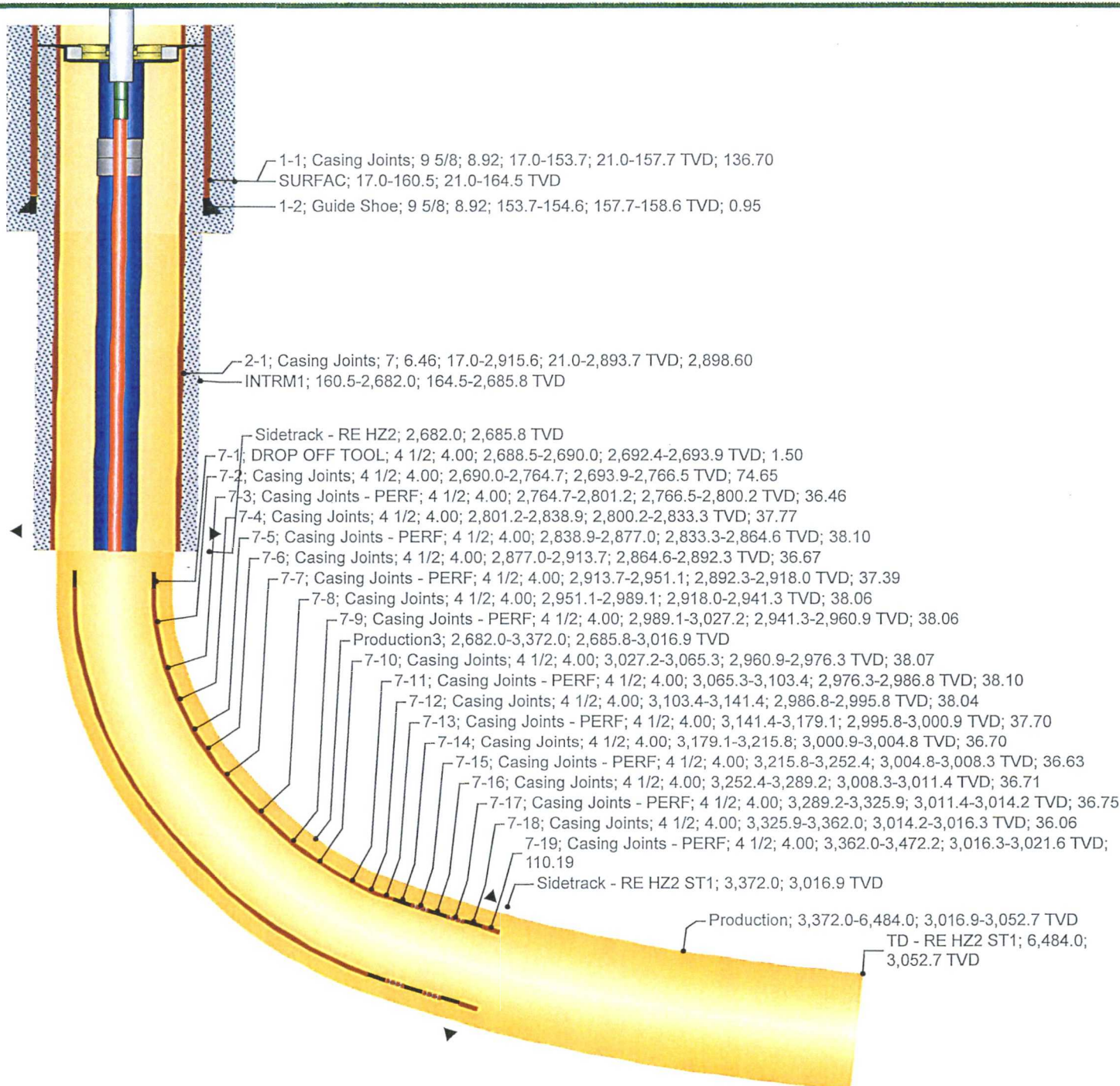


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ2 ST1, 8/10/2018 1:42:38 PM

Directional schematic (actual)





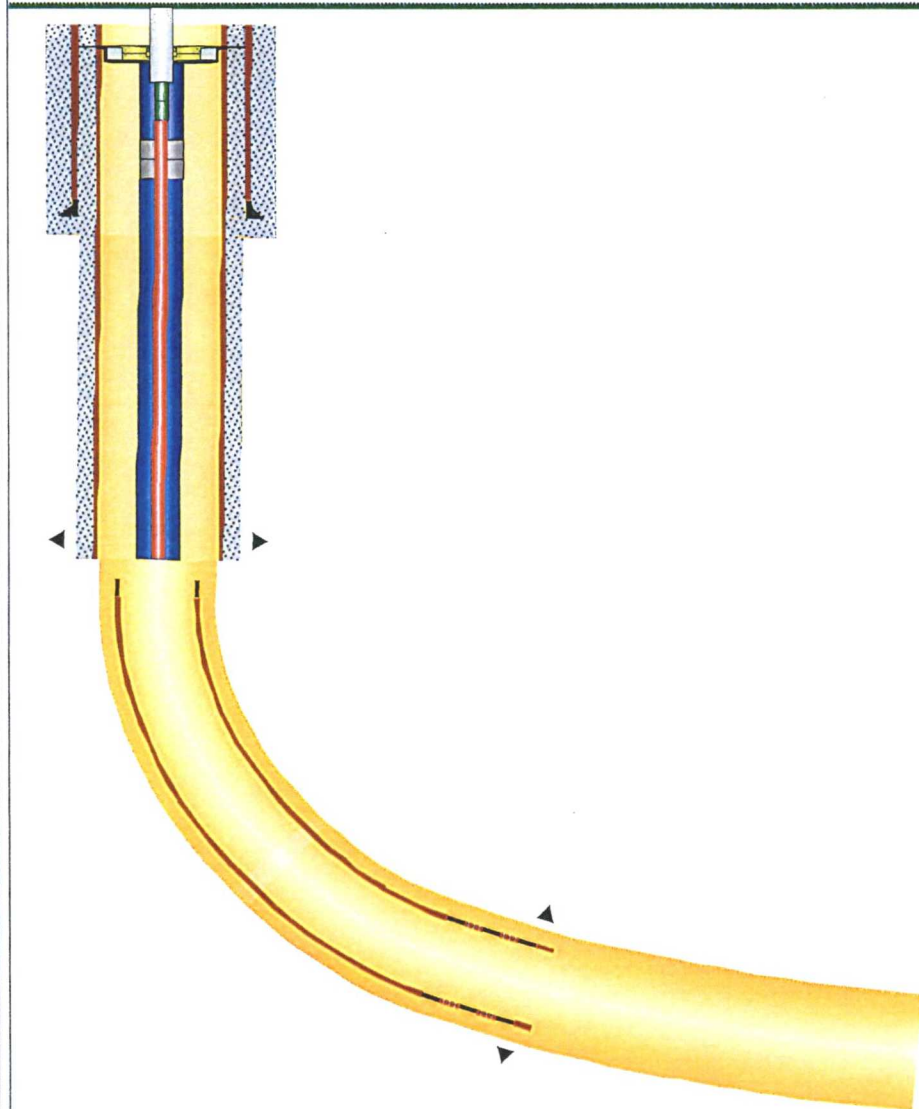
Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

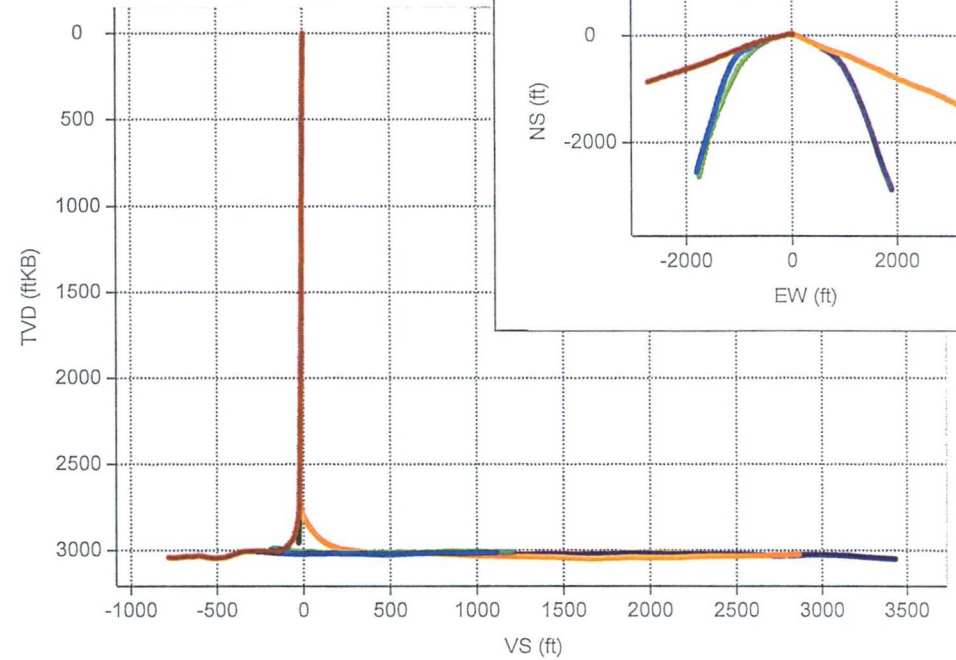
API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, RE HZ2 ST1, 8/10/2018 1:51:56 PM

Directional Schematic (Actual)



Vertical Section

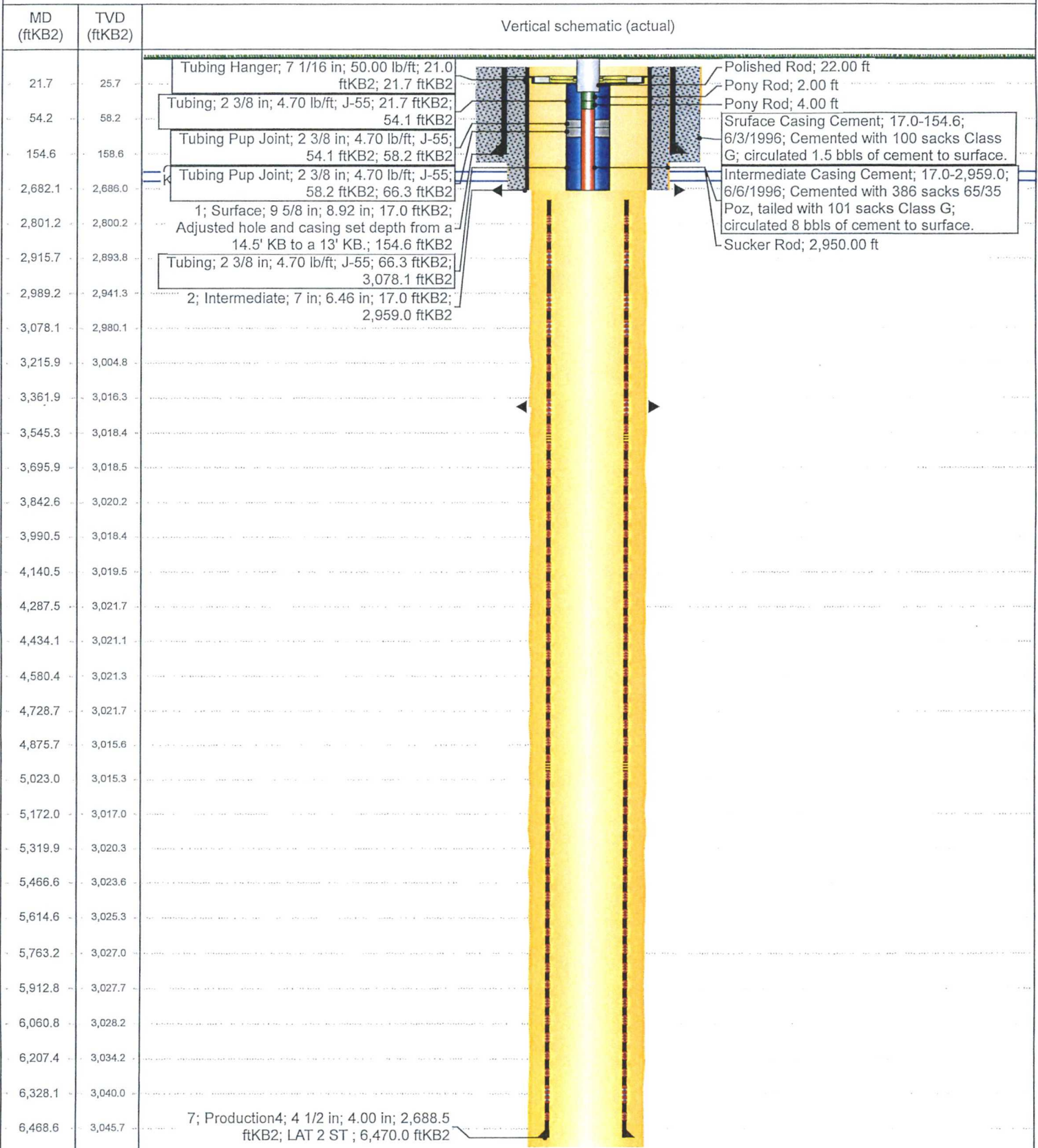


Plan

Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	Field Name BSN (FTLD COAL)	License No. #3046	State/Province NEW MEXICO	Well Configuration Type VERTICAL
Ground Elevation (ft) 6,519.00	Original KB/RT Elevation (ft) 6,532.00	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)	

VERTICAL, RE HZ2 ST2, 8/10/2018 1:42:38 PM

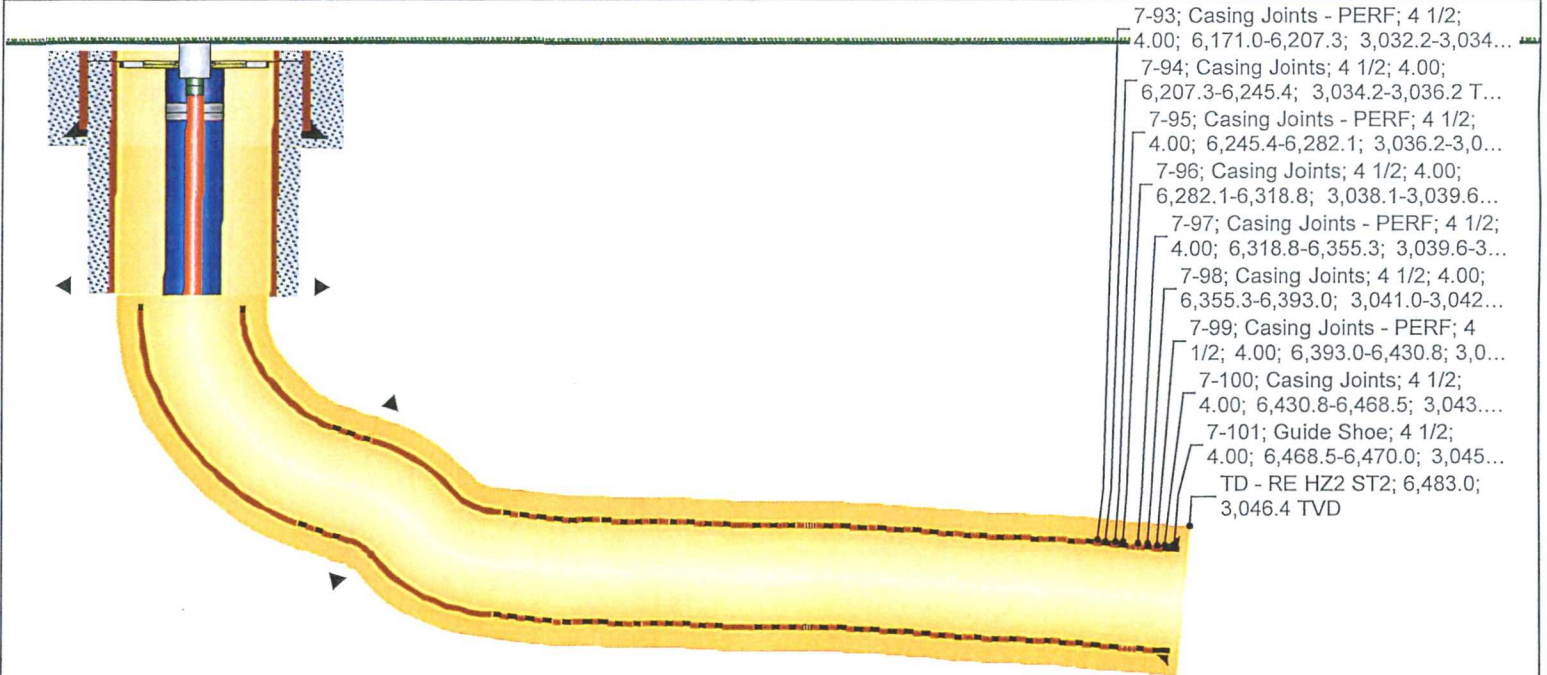


Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	State/Province NEW MEXICO	District NORTH	Area AREA 4	Route 410
Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)	Original Spud Date 6/2/1996 16:00	Rig Release Date 9/7/2005 16:00

VERTICAL, RE HZ2 ST2, 8/10/2018 1:42:38 PM

Directional schematic (actual)



Directional Schematic and Survey Plot

Well Name: ALLISON UNIT #145

API / UWI 3004529363	Surface Legal Location 007-032N-006W-M	License No.	Well Configuration Type VERTICAL	Ground Elevation (ft) 6,519.00	Casing Flange Elevation (ft)	KB-Ground Distance (ft) 13.00	KB-Casing Flange Distance (ft)
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VERTICAL, RE HZ2 ST2, 8/10/2018 1:51:57 PM

Directional Schematic (continued)

