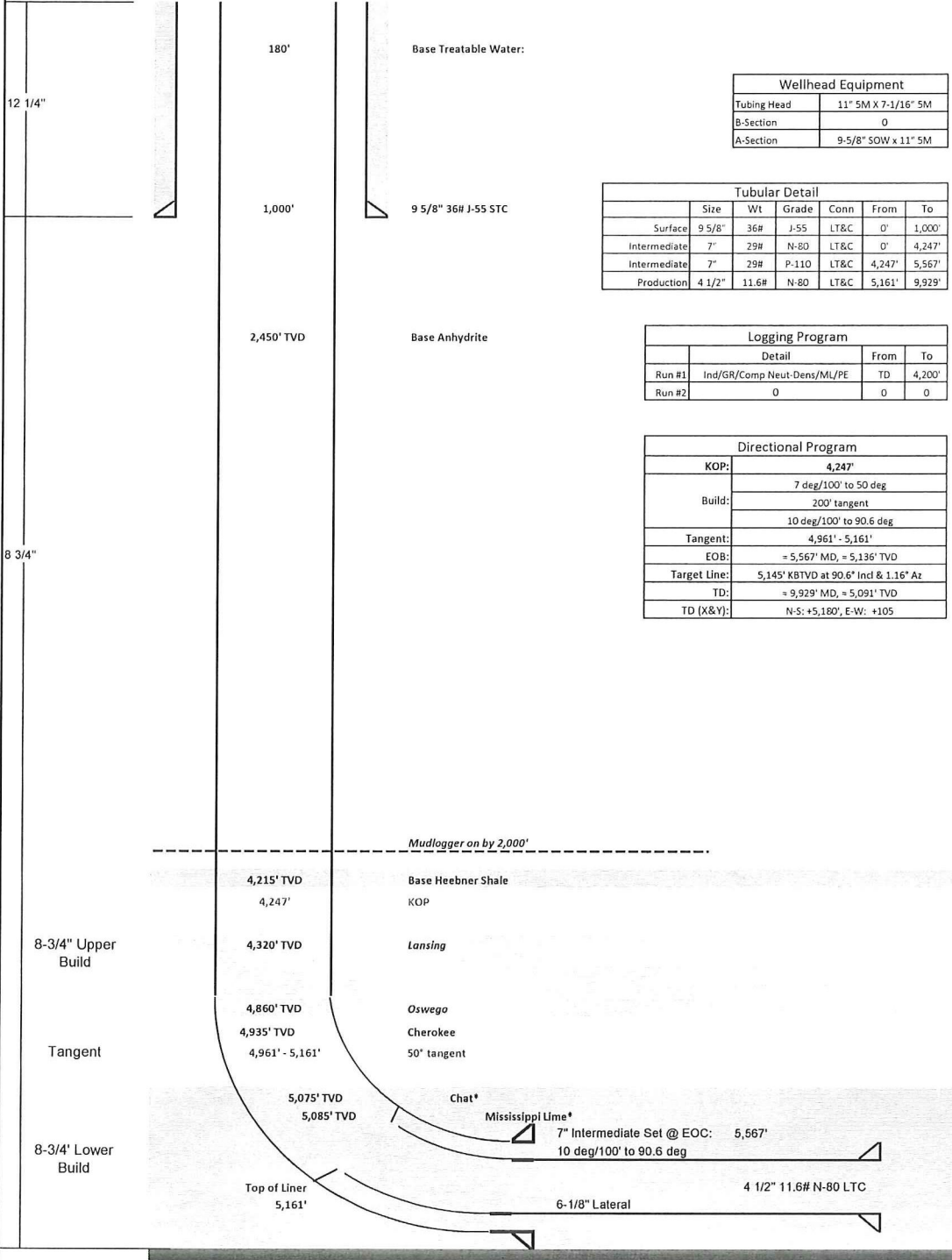


Well: Ellis 1-19H
 Field: Kansas – Six Moons
 County: Comanche County, Kansas
 Type: Upper Miss Lime Horizontal
 Surface: 200' FNL & 660' FWL of 30-T31S-R19W
 PBHL: 330' FNL & 660' FWL of 19-T31S-R19W
 GL: 2,053' KB: 2,071'

Engineer: Marc Harvey
 Manager: Roger Wilson
 Geology: Kanhthy Gentry
 Production: Chad Hunt
 Land: Shaun Lambert
 AFE #: DC11450



Wellhead Equipment	
Tubing Head	11" 5M x 7-1/16" 5M
B-Section	0
A-Section	9-5/8" SOW x 11" 5M

Tubular Detail						
	Size	Wt	Grade	Conn	From	To
Surface	9 5/8"	36#	J-55	LT&C	0'	1,000'
Intermediate	7"	29#	N-80	LT&C	0'	4,247'
Intermediate	7"	29#	P-110	LT&C	4,247'	5,567'
Production	4 1/2"	11.6#	N-80	LT&C	5,161'	9,929'

Logging Program			
	Detail	From	To
Run #1	Ind/GR/Comp Neut-Dens/ML/PE	TD	4,200'
Run #2	0	0	0

Directional Program	
KOP:	4,247'
Build:	7 deg/100' to 50 deg
	200' tangent
	10 deg/100' to 90.6 deg
Tangent:	4,961' - 5,161'
EOB:	= 5,567' MD, = 5,136' TVD
Target Line:	5,145' KBTVD at 90.6° Incl & 1.16° Az
TD:	= 9,929' MD, = 5,091' TVD
TD (X&Y):	N-S: +5,180', E-W: +105'

Total Measured Depth: 9,929' MD
 True Vertical Depth: 5,091' TVD

Prepared By	Date	Cementing	Logging Company	Mud Loggers	Mud Company	Directional
Marc Harvey	10/28/2011	O-Tex	Weatherford	Horizon Mud Logging	Chaparral Drilg Fluids	Wolverine Directional
		Greg Kirby		Russ Wollard	Jeff Taylor	Jeff Shoop
		(580) 475-2541		(405) 612-2042	(405) 637-6260	(405) 320-0406
		Liner Hanger	Soil Farming Company		HWDP	
		TIW	NA		Smith/Thomas Tool	
		Chuck Boyd (405) 226-7672				