



Regulatory Current Wellbore Schematic

UNIVERSITY 20-46 WNK W 2H

Field: MIDLAND BASIN

County: WINKLER

State: TEXAS

Elevation: GL 2,767.0 KB 2,792.0 KB Height: 25.0

Location: SEC 46, BLK 20, UNIVERSITY LANDS, 200 FNL & 500 FWL

Spud Date: 9/11/2011

Rig Release Date: 11/1/2011

Initial Compl. Date:

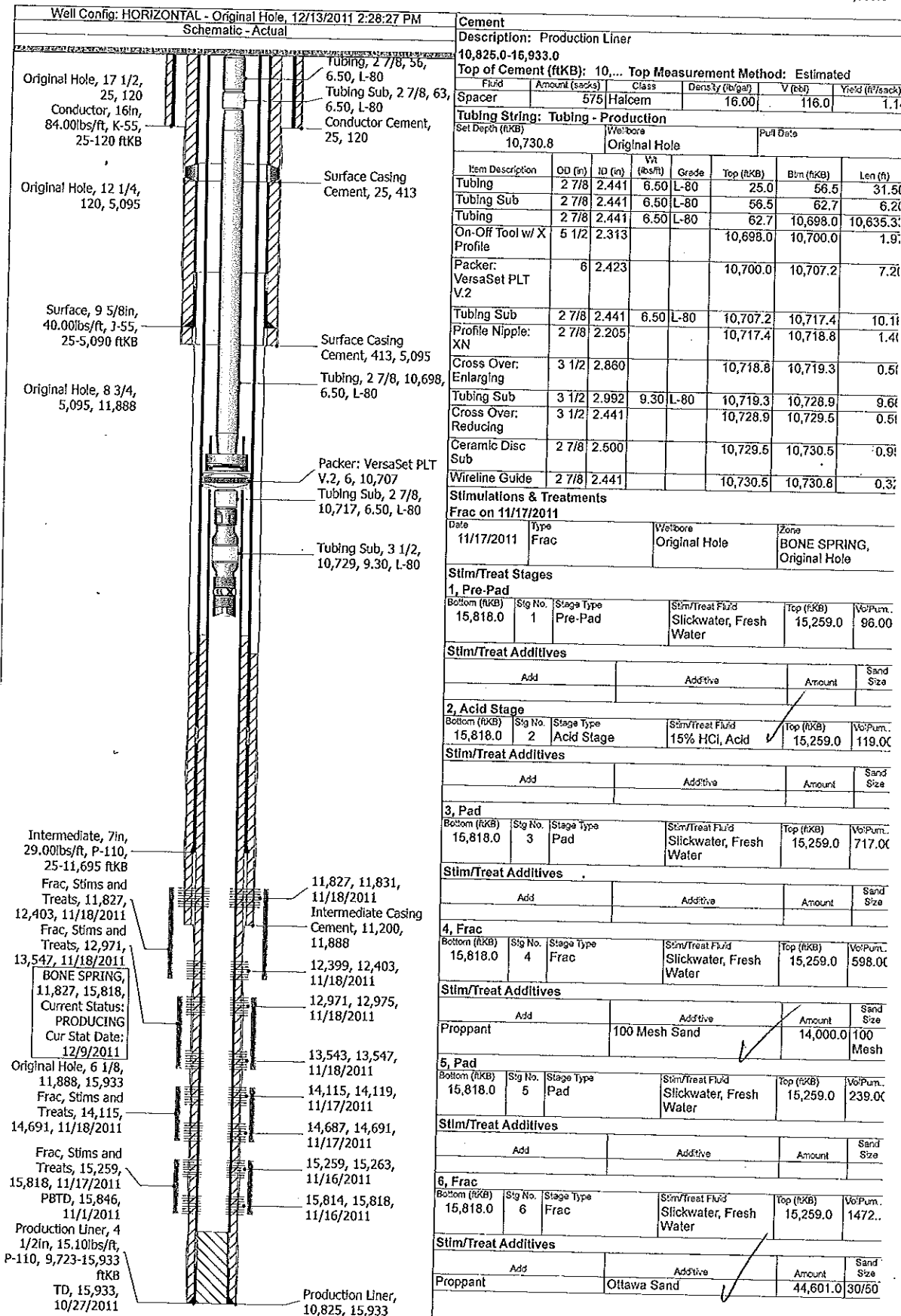
API #: 4249533378

CHK Property #: 639222

1st Sales Date:

PBDT: Original Hole - 15846.0

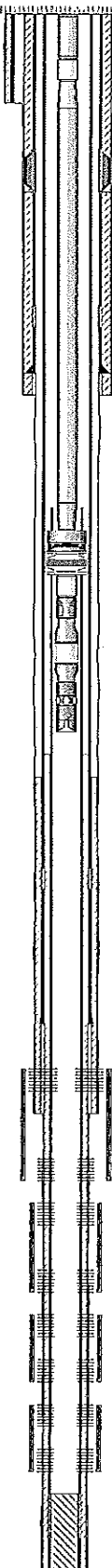
TD: 15,933.0



CURRENT WELLBORE SCHEMATIC

WELL: UNIVERSITY 20-46 WNK W 2H
FIELD: MIDLAND BASIN
COUNTY / STATE: WINKLER / TEXAS
LOCATION: SEC 46, BLK 20, UNIVERSITY LANDS, 200 FNL & 500 FWL
ELEVATION: 2,767.0 GL 2,792.0 RKB

PN: 639222 Chesapeake
API: 4249533378
SPUD DATE: 9/11/2011
RIG RELEASE: 11/1/2011
FIRST SALES:

Well Config: HORIZONTAL - Original Hole, 1/1			Wellheads										
ftKB (MD)		Schematic - Actual		Type		Comment							
25	<div>16in, 84.00lbs/ft, K-55, 25-120 ftKB</div>		Conductor Casing; Set @ 120.0 ftKB ; Original Hole										
34			Set Tension (Kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
56			Item Description		OD (in)	ID (in)	Drift (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)
63			Casing Joints		16	15.010		84.00	K-55		25.0	120.0	95.00
120			Surface Casing; Set @ 5,090.0 ftKB ; Original Hole										
235			Set Tension (Kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
410			Item Description		OD (in)	ID (in)	Drift (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)
411			Cut Off		9 5/8	8.830		40.00	J-55	LT&C	25.0	34.5	9.52
413			Casing Joints		9 5/8	8.830		40.00	J-55	LT&C	34.5	410.5	375.99
2,903			DV Tool		9 5/8	8.830		40.00	J-55	LT&C	410.5	413.1	2.64
4,161	Casing Joints		9 5/8	8.830		40.00	J-55	LT&C	413.1	5,002.4	4,589.24		
4,730	Float Collar		9 5/8	8.830		40.00	J-55	LT&C	5,002.4	5,003.6	1.23		
4,795	Casing Joints		9 5/8	8.830		40.00	J-55	LT&C	5,003.6	5,088.4	84.80		
5,002	Float Shoe		9 5/8	8.830		40.00	J-55	LT&C	5,088.4	5,090.0	1.62		
5,004	Intermediate Casing; Set @ 11,695.0 ftKB ; Original Hole												
5,088	Set Tension (Kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)						
5,090	Item Description		OD (in)	ID (in)	Drift (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)		
5,095	Casing Joints		7	6.184		29.00	P-110	LT&C	25.0	11,609.3	11,584.33		
5,130	Float Collar		7	6.184		29.00	P-110	LT&C	11,609.3	11,610.6	1.25		
5,170	Casing Joints		7	6.184		29.00	P-110	LT&C	11,610.6	11,693.5	82.92		
8,573	Float Shoe		7	6.184		29.00	P-110	LT&C	11,693.5	11,695.0	1.50		
8,762	Production Liner Casing; Set @ 15,933.0 ftKB ; Original Hole												
9,723	Set Tension (Kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)						
10,698	Item Description		OD (in)	ID (in)	Drift (in)	Wt (lbs/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)		
10,700	Casing Joints		4 1/2	3.830		15.10	P-110	8-RD	9,723.1	15,845.4	6,122.32		
10,707	Float Collar		4 1/2	3.830		15.10	P-110	8-RD	15,845.4	15,846.8	1.34		
10,718	Casing Joints		4 1/2	3.830		15.10	P-110	8-RD	15,846.8	15,931.5	84.74		
10,719	Float Shoe		4 1/2	3.830		15.10	P-110	8-RD	15,931.5	15,933.0	1.50		
10,719	Description: Conductor Cement												
10,729	25.0-120.0												
10,730	Top of Cement (ftKB): 25.0 Top Measurement Method:												
10,731	Fluid		Pump Start	Amount (sacks)	Class	Density (lb/gal)	V (bbl)	Yield (ft/sack)					
10,825	Description: Surface Casing Cement												
11,200	25.0-413.0												
11,353	Top of Cement (ftKB): 25.0 Top Measurement Method: Returns to Surface												
11,372	Fluid		Pump Start	Amount (sacks)	Class	Density (lb/gal)	V (bbl)	Yield (ft/sack)					
11,553	Lead		9/17/2011	290	Neat	14.80	68.7	1.33					
11,609	413.0-5,095.0												
11,611	Top of Cement (ftKB): 413.0 Top Measurement Method:												
11,615	Fluid		Pump Start	Amount (sacks)	Class	Density (lb/gal)	V (bbl)	Yield (ft/sack)					
11,623	Lead		9/17/2011	885	Extendacem	11.90	383.0	2.43					
11,640	Tail			565	Halcem	14.80	134.0	1.33					
11,671	Description: Intermediate Casing Cement												
11,694	11,200.0-11,888.0												
11,695	Top of Cement (ftKB): 11,200.0 Top Measurement Method: Volume Calculations												
11,768	Fluid		Pump Start	Amount (sacks)	Class	Density (lb/gal)	V (bbl)	Yield (ft/sack)					
11,827	Lead		10/4/2011	530	Halcem	11.80	505.0	2.51					
11,831	Description: Production Liner												
11,888	10,825.0-15,933.0												
11,938	Top of Cement (ftKB): 10,825.0 Top Measurement Method: Estimated												
12,399	Fluid		Pump Start	Amount (sacks)	Class	Density (lb/gal)	V (bbl)	Yield (ft/sack)					
12,403	Spacer		10/30/2011	575	Halcem	16.00	116.0	1.14					
12,971	Tubing String: Tubing - Production												
12,975	Set Depth (ftKB)		Wellbore	Run Date	Pull Date	Cut Pull Date	Depth Cut Pull (ftKB)						
13,533	10,730.8		Original Hole	12/7/2011									
13,543	Item Description		OD (in)	ID (in)	Drift (in)	Wt (lbs/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts		
13,547	Tubing		2 7/8	2.441	2.347	6.50	L-80	25.0	56.5	31.50	1		
14,115	Tubing Sub		2 7/8	2.441	2.347	6.50	L-80	56.5	62.7	6.20	1		
14,119	Tubing		2 7/8	2.441	2.347	6.50	L-80	62.7	10,698.0	10,635.33	336		
14,687	On-Off Tool w/ X Profile		5 1/2	2.313				10,698.0	10,700.0	1.97	1		
14,691	Packer: VersaSet PLT V.2		6	2.423				10,700.0	10,707.2	7.20	1		
15,259	Tubing Sub		2 7/8	2.441	2.347	6.50	L-80	10,707.2	10,717.4	10.18	1		
15,263	Profile Nipple: XN		2 7/8	2.205				10,717.4	10,718.8	1.40	1		
15,814	Cross Over: Enlarging		3 1/2	2.860				10,718.8	10,719.3	0.50	1		
15,818	Tubing Sub		3 1/2	2.992	2.867	9.30	L-80	10,719.3	10,728.9	9.66	1		
15,845	Cross Over: Reducing		3 1/2	2.441				10,728.9	10,729.5	0.58	1		
15,846	Ceramic Disc Sub		2 7/8	2.500				10,729.5	10,730.5	0.95	1		
15,847	Wireline Guide		2 7/8	2.441				10,730.5	10,730.8	0.32	1		
15,931	Perforations												
15,933	Date		Zone	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Current Status						
	11/18/2011		BONE SPRING, Original Hole	11,827.0	11,831.0	5.0							
	11/18/2011		BONE SPRING, Original Hole	12,399.0	12,403.0	5.0							