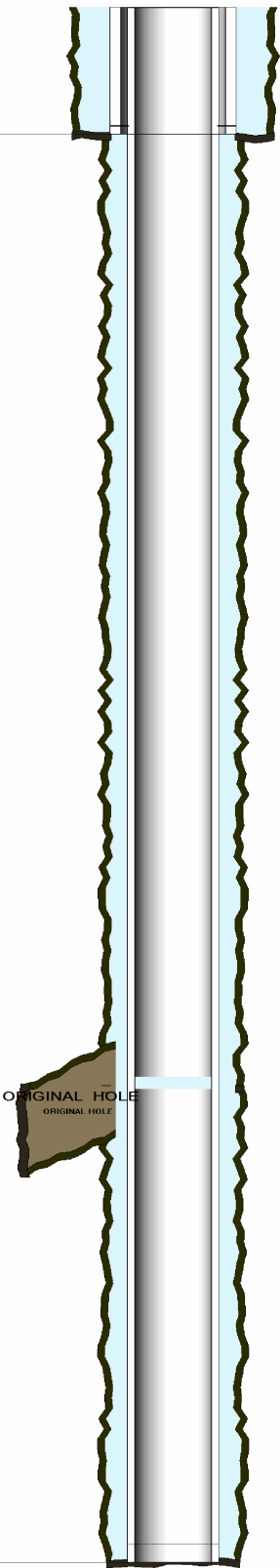


Well Name: HARRIS 38N-18HZ
Wellbore Name: HARRIS 38N-18HZX
WINS No: C4975
API No: 0512337639
State: COLORADO
County: WELD

Field Name: WATTENBERG
Lat: 40.205366
Long: -104.813753
Spud Date: 08/24/2013
TD Date:
Location Description: SE SE 19 3N 66W 880' FSL 861' FEL

TD:
TVD:
PBTD:
PB TVD:
Target Formation: NIOBRARA (HORZ)

ST#: 01
Working Interest: 100.00
Ground Elevation: 4,867.00
KB Height: 4883

Casing	Well Schematic 0/19/2013)	Equip. Description	Equip. Length	Cement Depths	Hole Depths	Hole Details	MD
SURFACE CASING, 9.625in, 635.2usft				16.0 (T O C)	16.0	13.500in	0.0
				16.0 (T O C)			18.0
							30.1
							192.0
							353.9
				636.0	646.0		515.8
							594.3
							594.8
							634.5
							635.0
							709.5
							871.4
							1033.3
							1195.2
							1357.0
							1518.9
							1680.8
							1842.7
							2004.6
							2166.5
							2328.4
							2490.2
							2652.1
							2814.0
						8.750in	2975.9
							3137.8
							3299.7
							3461.6
							3623.4
							3785.3
							3947.2
							4109.1
							4271.0
							4432.9
							4594.8
							4756.7
							4918.5
							5080.4
				5230.0 (T O C)	5290.0		5242.3
				5290.0			5404.2
							5566.1
							5728.0
							5889.9
							6051.7
							6213.6
							6375.5
						8.750in	6537.4
							6699.3
							6861.2
							7023.1
							7184.9
							7346.8
							7508.2
							7552.9
							7596.7
INTERMEDIATE CASING, 7.000in, 7,597.6usft				7597.0	7607.0		7607.0

Well Name:	HARRIS 38N-18HZ	Field Name:	WATTENBERG	TD:	ST#:	01
Wellbore Name:	HARRIS 38N-18HZX	Lat:	40.205366	TVD:	Working Interest:	100.00
WINS No:	C4975	Long:	-104.813753	PBTD:	Ground Elevation:	4,867.00
API No:	0512337639	Spud Date:	08/24/2013	PB TVD:	KB Height:	4883
State:	COLORADO	TD Date:		Target Formation: NIOBRARA (HORZ)		
County:	WELD	Location Description: SE SE 19 3N 66W 880' FSL 861' FEL				

HOLE SECTIONS					LOGGING DATA			
HOLE SECTIONS	Size	Top	Btm	TD Date	Date	Tool Description	MD Top	MD Base
INTERMEDIATE	8.750	5290						

CASING/TUBING/WELLBORE EQUIPMENT DATA														
TUBULARS	Tool Type	Joints	Size	Weight	Grade	Thread	Top D	Btm D	Burst	Collapse	Capacity	Length	ID	Drift ID
INTERMEDIATE CASING	Mandrel	1	7.000	26.00	XXX	LT&C	16	20				4.00	6.276	0.000
	Casing	172	7.000	26.00	P-110	LTC	20	7508				7,488.19	6.276	6.151
	Casing	1	7.000	26.00	P-110	LTC	7508	7510				1.40	6.276	6.151
	Casing	2	7.000	26.00	P-110	LTC	7510	7596				86.48	6.276	6.151
	Casing Float Shoe	1	7.000	26.00	P-110	LTC	7596	7598				1.51	6.276	6.151

CEMENT INFORMATION								
CEMENT JOBS	Stage	Cement Jobs	Sacks	Returns	Displ. Fluid	Top D	Btm D	cbl
SURFACE CASING								
	PRIM CMT 1ST STAGE	LEAD	FRESH WATER	475		16	4,780	No
	PRIM CMT 1ST STAGE	TAIL	FRESH WATER	375		4,780	7,597	No

FORMATION TOPS					PUMP EQUIPMENT	
Strat Unit	Formation	MD Top	MD Base	Comments	Type	Description
	B BENCH TARGET					
	FORT HAYS					
	PARKMAN					
	FOX HILLS					
	CARLILE					
	SHARON SPRINGS					
	SURFACE					
	NIOBRARA A					
	NIOBRARA C					
	B BENCH					
	NIOBRARA B					
	SUSSEX					
	CODELL SAND					
	SHANNON					

PERFORATIONS											
Date	Formation	Zone	Top	Btm	SPF	No. Holes	Diameter	Phasing	Reason	Status	Comments

Well Directions:	WCR 30 & HWY 85, E 3/10, N 1/10, E 300', N 100' into	Battery Directions:	
------------------	--	---------------------	--