

Well Name: RICHARDSON 10-11

VERTICAL - ORIGINAL HOLE, 7/2/2012 1:40:17 PM

Well Header

API 05-123-17190	Business Unit WATTENBERG	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,660.00	KB - GL / MSL (ftKB) 11.00	Spud Date 7/24/1993	P & A Date

Comment

Directions To Well

WCR 46 & 55, NORTH 0.3, EAST 0.3, NORTH INTO.

Current PBTD (ftKB)

ORIGINAL HOLE - 6,930.0

Surface Location (Congressional)

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twnshp N...	Range	Rng E/W Dir
		NE	SW	10	4	N	64	W

Bottom Hole Location

North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
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Plug Back Total Depths

Date	Depth (ftKB)	Method	Com
7/28/1993	6,925.0	CASED HOLE LOG	DEPTH LOGGER ONCBL
7/28/1993	6,984.0	CASING TALLY	FLOAT COLLAR

Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	11.0	486.0
PRODUCTION	7 7/8	486.0	6,995.0

Zone Statuses

Zone Name	Status Date	Status	Job
CODELL	8/14/1993	PR	DRILLING/COMPLETION - ORIGINAL, 7/24/1993 00:00
CODELL	11/15/2003	PR	RE-FRAC, 11/10/2003 00:00
CODELL	3/2/2006	PR	RECOMPLETION, 1/11/2006 00:00
CODELL	3/15/2012	PR	TRI-FRAC, 1/25/2012 11:00
NIOBRARA	2/8/2006	PR	RECOMPLETION, 1/11/2006 00:00
NIOBRARA	3/2/2006	PR	RECOMPLETION, 1/11/2006 00:00

Casing Strings

Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)
Surface	7/25/1993	8 5/8	24.00	M-50	11.0	472.0
Production	7/28/1993	3 1/2	7.70	M-75	11.0	6,986.0

Cement

Des	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	11.0	472.0
PRODUCTION CASING CEMENT	6,043.0	6,986.0

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
Tubing	2 1/16	3.25	J-55	208	6,756.77
NOTCHED SEATING NIPPLE	2 1/16	0.00	X	1	1.10

Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	108	6,516.0	6,534.0	1/13/2006
NIOBRARA, ORIGINAL HOLE	B	108	6,598.0	6,616.0	1/13/2006
CODELL, ORIGINAL HOLE		20	6,788.0	6,798.0	8/3/1993
CODELL, ORIGINAL HOLE		48	6,788.0	6,800.0	11/12/2003

Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type
	8/5/1993	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

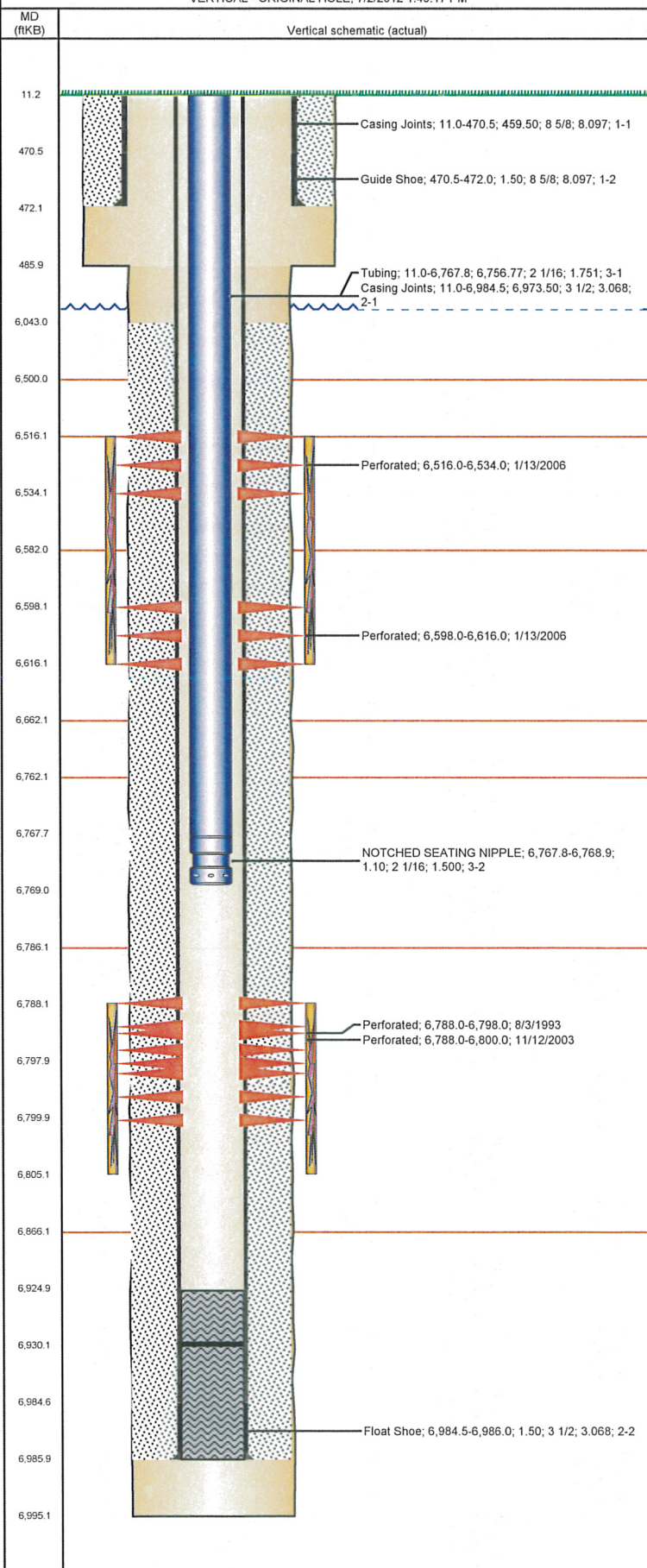
Comment

Total Add Amount	Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)
Proppant 190000 lb		59472.00	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
4,100.0	4,648.0	14.00	14.90

Float Shoe; 6,984.5-6,986.0; 1.50; 3 1/2; 3.068; 2-2
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Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type		
	11/14/2003	CODELL, ORIGINAL HOLE	RE-FRAC		
Comment					
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)	
Proppant Ottawa 250031 lb			131964.00		
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)		
3,970.0	4,512.0	14.20	14.40		
Bnch/Stg	Date	Zone	Primary Job Type		
	2/7/2006	NIOBRARA, ORIGINAL HOLE	RECOMPLETION		
Comment					
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)	
Proppant Ottawa 237960 lb; Proppant SB Excel 12000 lb			253806.01		
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)		
6,140.0	6,390.0	43.90	51.30		
Bnch/Stg	Date	Zone	Primary Job Type		
	2/8/2012	NIOBRARA, ORIGINAL HOLE	TRI-FRAC		
Comment					
(CODELL TRIFRAC) DURING END OF RAMP STG THE GS-1A WAS RUNNING ERRACA CAUSING THE PSI TO RUN ERRADIC. AT THE END OF JOB PSI CAME UP HARD SLOWED RATE DOWN TO ADJUST FOR PRESSURE AND GOT THE WELL FLUSHED.PACKED HELD THOUGHT OUT THE JOB COUNTINUELY PUMP DURING THE JOB TO KEEP ANNULAS LOADED. 5MIN SHUT IN PSI 3165					
Total Add Amount		Total Clean Volume...	Vol Slurry Tot (gal)	Vol Gas Tot (MCF)	
Proppant Ottawa 249047.3 lb		130546.92	141832.74		
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)		
7,430.0	7,813.0	15.60	16.10		
Other In Hole					
Run Date	Des		OD (in)	Top (ftKB)	Btm (ftKB)
Logs					
Date	Type		Top (ftKB)	Btm (ftKB)	
7/28/1993	COMPENSATED DENSITY		4,140.0	6,988.0	
7/28/1993	INDUCTION		474.0	6,988.0	
8/3/1993	CEMENT BOND		5,950.0	6,920.0	