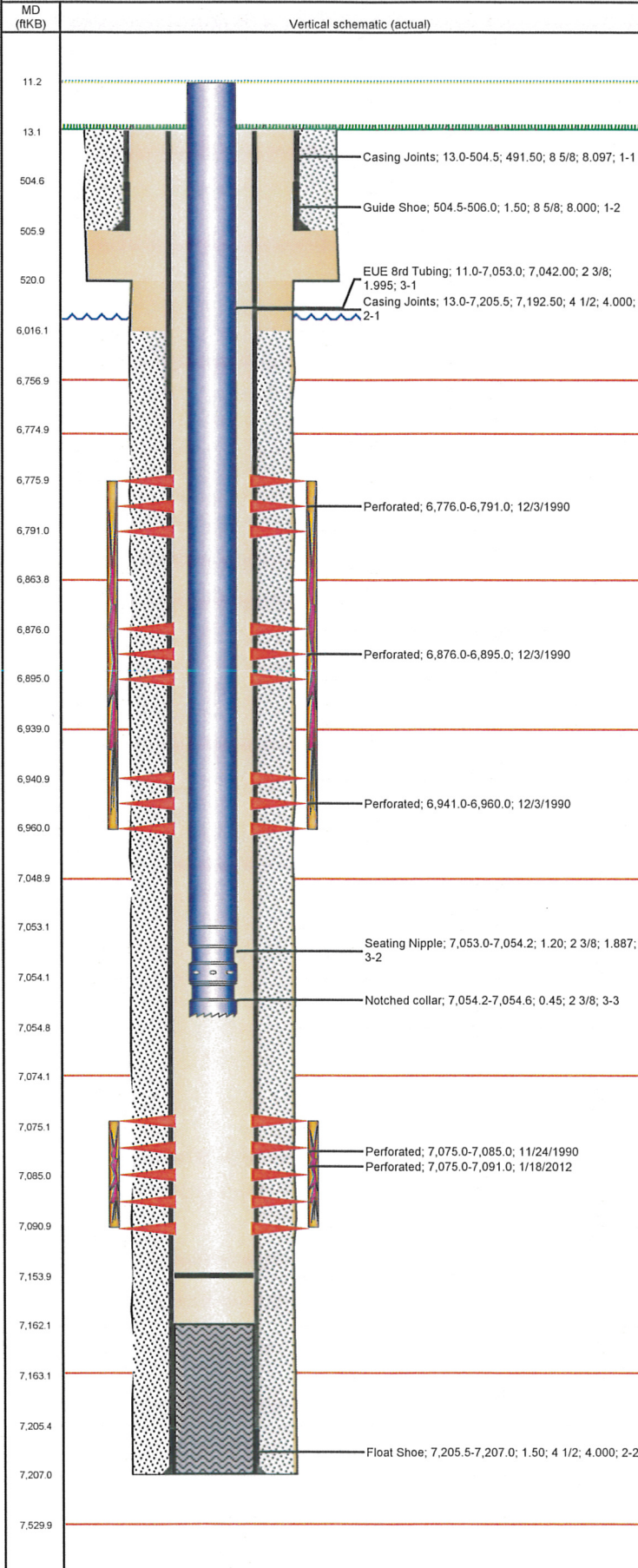


Well Name: FRED ARENS 06

VERTICAL - ORIGINAL HOLE, 6/25/2012 12:59:31 PM



Well Header

API 05-123-14812	Business Unit WATTENBERG	District 15	Well Config VERTICAL
Original KB Elevation (ft) 4,787.00	KB - GL / MSL (ftKB) 13.00	Spud Date 11/12/1990	P & A Date

Comment

frac baffle @ 7044, drld out 11/90

Directions To Well

46 & 47 E 5/10, N 4/10, W INTO

Current PBTD (ftKB)

ORIGINAL HOLE - 7,154.0

Surface Location (Congressional)

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Section	Township	Twnshp N...	Range	Rng E/W Dir
		NE	SW	12	4	N	65	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
11/16/1990	7,162.0	TAG	GUIDE SHOE
1/18/2012	7,154.3	TBG TALLY	FILL

Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	13.0	520.0
PRODUCTION	7 7/8	520.0	7,207.0

Zone Statuses

Zone Name	Status Date	Status	Job
NIOBRARA	12/10/1990	PR	DRILLING/COMPLETION - ORIGINAL, 11/12/1990 00:00
CODELL	12/10/1990	PR	DRILLING/COMPLETION - ORIGINAL, 11/12/1990 00:00
CODELL	2/10/2012	PR	RE-FRAC, 1/16/2012 06:00

Casing Strings

Csg Des	Run Date	OD (in)	Wt/Len (lb/ft)	Grade	Top (ftKB)	Set Depth (ftKB)
Surface	11/12/1990	8 5/8	24.00	J-55	13.0	506.0
Production	11/16/1990	4 1/2	11.60	M-75	13.0	7,207.0

Cement

Des	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	13.0	506.0
PRODUCTION CASING CEMENT	6,016.0	7,207.0

Tubing Components

Item Des	OD (in)	Wt (lb/ft)	Grade	Jts	Len (ft)
EUE 8rd Tubing	2 3/8	4.70	J-55	230	7,042.00
Seating Nipple	2 3/8	5.40	J-55	1	1.20
Notched collar	2 3/8		J-55	1	0.45

Perforation Data

Zone	Bnch/St g	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NIOBRARA, ORIGINAL HOLE	A	10	6,776.0	6,791.0	12/3/1990
NIOBRARA, ORIGINAL HOLE	B	10	6,876.0	6,895.0	12/3/1990
NIOBRARA, ORIGINAL HOLE	C	8	6,941.0	6,960.0	12/3/1990
CODELL, ORIGINAL HOLE		41	7,075.0	7,085.0	11/24/1990
CODELL, ORIGINAL HOLE		64	7,075.0	7,091.0	1/18/2012

Stimulations & Treatments

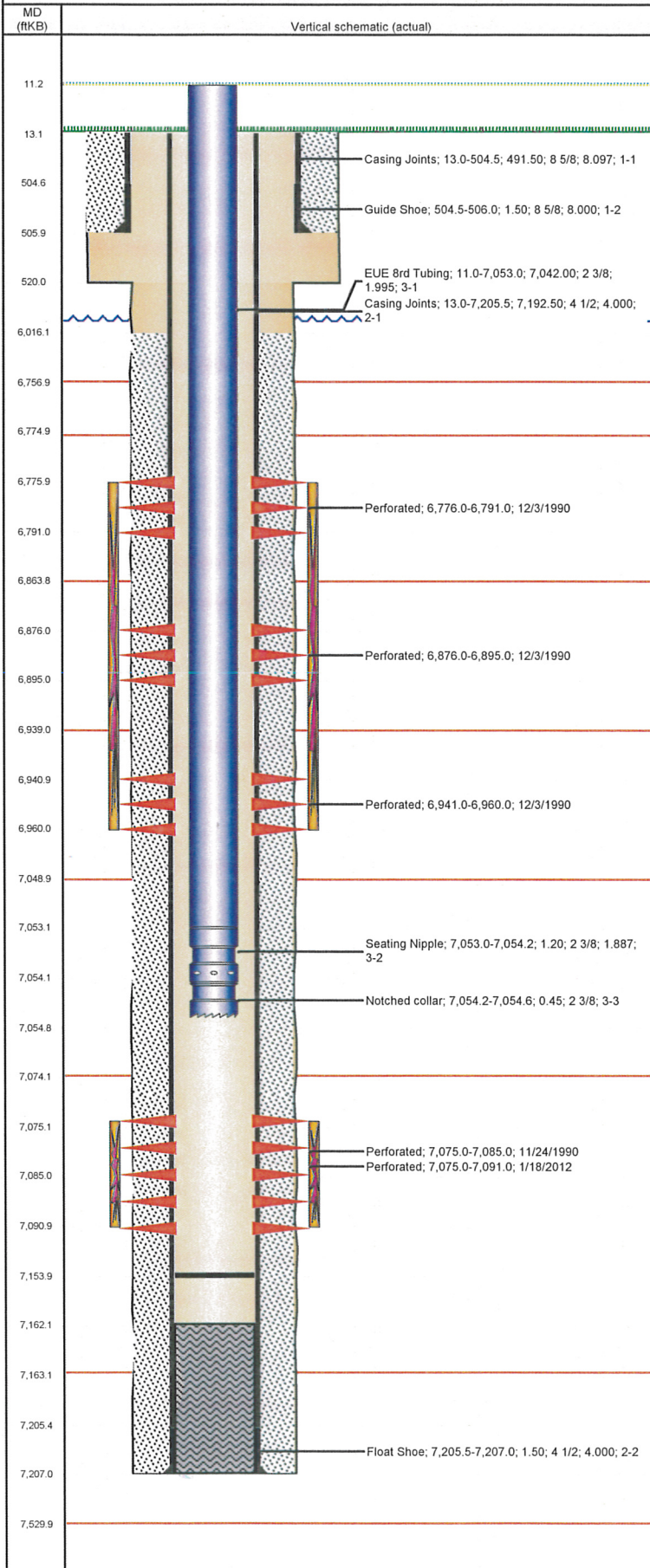
Bnch/Stg	Date	Zone	Primary Job Type
	11/26/1990	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

Comment

Total Add Amount Proppant 187000 lb; Proppant 100 MESH 10000 lb	Total Clean Volume...	Vol Slurry Tot (gal) 67998.00	Vol Gas Tot (MCF)
Avg Treat Pressure (psi) 5,000.0	Max Treat Pressure (psi) 5,650.0	Avg Treat Rate (bbl/min) 10.00	Max Treat Rate (bbl/min) 10.00

Well Name: FRED ARENS 06

VERTICAL - ORIGINAL HOLE, 6/25/2012 12:59:32 PM



Stimulations & Treatments

Bnch/Stg	Date	Zone	Primary Job Type
	12/5/1990	NIOBRARA, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

Comment

Total Add Amount Proppant 162000 lb; Proppant 100 MESH 9000 lb	Total Clean Volume...	Vol Slurry Tot (gal) 67158.00	Vol Gas Tot (MCF)
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Avg Treat Pressure (psi) 5,800.0	Max Treat Pressure (psi) 6,050.0	Avg Treat Rate (bbl/min) 12.00	Max Treat Rate (bbl/min) 12.00
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Bnch/Stg	Date	Zone	Primary Job Type
	1/24/2012	CODELL, ORIGINAL HOLE	RE-FRAC

Comment

(CODELL RF): BREAK - 2435 @ 2.0 BPM. ISIP - 1877, 5 MIN - 618. INCREASED RATE TO 22 BPM AND GEL TO A 26# BECAUSE OF LEAK-OFF. FLUID END BEGAN TO WASH OUT ON PUMP, TOOK PUMP OFFLINE AND RE-ESTABLISHED RATE WITH OTHER PUMPS. FINAL ISIP - 2978, 5 MIN - 2650. AVG VISC - 25.5, AVG PH - 10.24, AVG TEMP - 71.4. TREATMENT WENT WELL.

Total Add Amount Proppant Ottawa 247487.896 lb	Total Clean Volume...	Vol Slurry Tot (gal) 130625.46	Vol Gas Tot (MCF)
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Avg Treat Pressure (psi) 5,486.0	Max Treat Pressure (psi) 6,104.0	Avg Treat Rate (bbl/min) 22.30	Max Treat Rate (bbl/min) 22.90
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Other In Hole

Run Date	Des	OD (in)	Top (ftKB)	Btm (ftKB)

Logs

Date	Type	Top (ftKB)	Btm (ftKB)
11/16/1990	COMPENSATED DENSITY	3,700.0	7,203.0
11/16/1990	FORMATION TESTER	6,776.0	7,081.0
11/16/1990	INDUCTION	504.0	7,204.0
11/21/1990	CEMENT BOND	5,800.0	7,052.0
11/24/1990	CEMENT BOND	6,500.0	7,152.0