

Well Name: OCOMA B31-15

Well Config: VERTICAL - ORIGINAL HOLE, 3/7/2012 1:25:25 PM

Well Header

API	Business Unit	Spud Date	Well Configuration Type
05-123-13395	WATTENBERG	3/7/1987	VERTICAL
Orig KB Elev (ft)	KB - GL / ...	Quarter Quarter	Sec/Abs
4,802.00	11	SWSE	31
		Twn/Sur...	Range
		5N	64W
			P & A Date

Comment
TIGHT SPOT @ 5000'; PUSH CIBP TO 7081' 10/12/2005; COMMINGLE AFTER NRF WAS MISSED - NO OFFICIAL IP DATE

Directions To Well
RD 50 & 51, W 3/10, N INTO.

Current PBTD (ftKB)

ORIGINAL HOLE - 7067.9

Bottom Hole Location

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

PBTDs

Date	Depth (ftKB)	Method	Comment
3/14/1987	7,071.0	CASED HOLE LOG	DEPTH LOGGER
10/12/2005	7,081.0	CASING TALLY	FILL

Wellbore Sections

Section	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
SURFACE	12 1/4	11.0	314.0
PRODUCTION	7 7/8	314.0	7,165.0

Zone Statuses

Zone	Status Date	Status	Job
NBRR	4/18/1987	PR	DRILLING/COMPLETION - ORIGI...
CODELL	4/18/1987	PR	DRILLING/COMPLETION - ORIGI...
CODELL	5/3/2005	PR	RE-FRAC, 4/18/2005 00:00
NBRR	5/3/2005	PR	RE-FRAC, 4/18/2005 00:00
CODELL	8/16/2005	SI	RE-FRAC, 8/15/2005 00:00
NBRR	9/3/2005	PR	RE-FRAC, 8/15/2005 00:00
CODELL	10/12/2005	PR	RE-FRAC, 8/15/2005 00:00
NBRR	10/12/2005	PR	RE-FRAC, 8/15/2005 00:00
CODELL	12/15/2011	PR	TRI-FRAC, 11/9/2011 06:00

Casing Strings

Casing Description	Run Date	String OD (in)	String Wt (lbs/ft)	String Grade	Top (ftKB)	Set Depth (ftKB)
Surface	3/7/1987	8 5/8	24.00		11.0	314.0
Production	3/11/1987	4 1/2	15.10		11.0	7,150.0

Cement

Description	Top (ftKB)	Btm (ftKB)
SURFACE CASING CEMENT	11.0	314.0
PRODUCTION CASING CEMENT	6,170.0	7,150.0

Tubing Components

Item Description	OD (in)	Wt (lbs/ft)	Grade	Jts	Len (ft)
Tubing Pup Joint	2 3/8	4.70	J-55	1	10.00
EUE 8rd Tubing	2 3/8	4.70	J-55	228	6,977.29
Notch Seat Nipple	2 3/8	4.70	N-80	1	1.20

Perforation Data

Zone	Bnch/Stg	Entered Shot Total	Top (ftKB)	Btm (ftKB)	Date
NBRR, ORIGINAL ...		108	6,736.0	6,754.0	8/17/2005
NBRR, ORIGINAL ...	A	3	6,740.0	6,752.0	3/14/1987
NBRR, ORIGINAL ...	B	5	6,835.0	6,855.0	3/14/1987
NBRR, ORIGINAL ...		108	6,840.0	6,858.0	8/17/2005
NBRR, ORIGINAL ...	C	2	6,906.0	6,927.0	3/14/1987
CODELL, ORIGINA...		64	7,024.0	7,040.0	4/19/2005
CODELL, ORIGINA...		5	7,027.0	7,037.0	3/14/1987

Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type
	3/17/1987	NIORARA-CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL

Comment
FRAC VIA LTD ENTRY

Total Add Amount	V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant 228000 lb; Proppant 100 MESH 12000 lb; Proppant Resin Coated Sand 10000 lb		83656	

Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)
	5,800.0	33.00	

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Stimulations & Treatments

Bnch/...	Date	Zone	Primary Job Type	
	5/2/2005	CODELL, ORIGINAL HOLE	RE-FRAC	
Comment				
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant Ottawa 246180 lb			130452	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)	
5,103.0	5,427.0	16.00	16.10	
Bnch/...	Date	Zone	Primary Job Type	
	9/2/2005	NBRR, ORIGINAL HOLE	RE-FRAC	
Comment				
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Proppant SB Excel 12000 lb; Proppant 238240 lb			167874	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)	
4,530.0	4,925.0	38.70	49.80	
Bnch/...	Date	Zone	Primary Job Type	
	11/9/2011	CODELL, ORIGINAL HOLE	TRI-FRAC	
Comment				
(CODELL TRIFRAC)PUMPED JOB PER DESIGN.				
ISIP 3061, 5 MIN 2097. AVERAGES: VISC 27.5, TEMP 70.69, PH 10.26. POST 5MIN 3152.				
Total Add Amount		V (pumped) (gal)	V (slurry) (gal)	V (gas) (mcf)
Ottawa 0		129026	140379	
Avg Treat Pressure (psi)	Max Treat Pressure (psi)	Avg Treat Rate (bbl/min)	Max Treat Rate (bbl/min)	
5,412.0	6,159.0	18.72	19.15	

Other In Hole

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

Logs

Date	Type	Top (ftKB)	Btm (ftKB)
3/11/1987	COMPENSATED NEUTRON	3,700.0	7,162.0
3/11/1987	INDUCTION	314.0	7,165.0
3/14/1987	CBL/VDL/GR	314.0	7,071.0
4/8/2011	GYRO	10.0	7,000.0

