

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8664
LOCATION Or 49:32
FOREMAN J. R. Doherty
m Spinning
LR Nelson

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8/24/11	Dechmitt D18-30D				WELD	

CHARGE TO	NOBLE ENERGY	OWNER	
MAILING ADDRESS		OPERATOR	NOBLE
CITY		CONTRACTOR	ENS 128
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION		TIME LEFT LOCATION	

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL
TOTAL DEPTH	797	TUBING DEPTH	SHOTS/FT	INSTRUCTED
		TUBING WEIGHT	OPEN HOLE	
CASING SIZE	8 5/8	TUBING CONDITION	STRING	
CASING DEPTH	787	TREATMENT VIA	TUBING	
CASING WEIGHT	24#	PACKER DEPTH	TYPE OF TREATMENT	TREATMENT RATE
CASING CONDITION	Good	FROM COLLAR-742	<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
			<input type="checkbox"/> MISC PUMP	
			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNULUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB Misc, Safety meeting, PSI test lines, Circ 40 Bbls H₂O & KCL with Dye in
200 10 Bbls, m/p cement, yield 1.27 Density 15.2 until stopped by Co. Man in MAX - 5
excess. Drop plug & Displace 47.2 Bbls to Bump plug @ 150 psi over lift pressure
Wash-up, Rig down. H₂O test good

ARRIVE Location with 450 SKS Cement
JOB SUMMARY
DESCRIPTION OF JOB EVENTS Mixed & pumped 285 SKS 10% excess 64.5 Bbls Slurry
pumped 9 Bbls Slurry to pit

8:51 Circ 40 Bbls KCL/H₂O
9:00 m/p cement
9:35 Drop plug
Disp. 10 Bbls 4 Bbls 80 psi
20 Bbls 3.5 180 psi
30 Bbls 3.5 250 psi
40 Bbls 3.2 310
47.2 - Bump plug @ 580 psi
Depart Location with 165 SKS Cement

(Paul W. Orr) Consultant 8/24/11
AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.