

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9786
LOCATION WCR 48430
FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-27-11	Dechant State H 36-11	36	3N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Emsign #121</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:45pm</u>	TIME LEFT LOCATION <u>5:20pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
<u>12 1/4</u>					
TOTAL DEPTH <u>828</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 778.27</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>821.70</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE

CASING WEIGHT <u>24/lbs</u>	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP	
MINIMUM	psi			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up. Safety meeting per Co. man. Press test 500 psi. Circulate 50 bbls H₂O/KCL. Dye x's 16 oz 2nd 10 bbls, mix and pump cement @ 15.2/lbs @ 1.27 yield til dye is seen, then pump tub only. Drop plug, displace 49.5 bbls, bump plug @ 150 psi above lift press, wait 5 min, bleed off press, Rig down. H₂O tested good. Arrived with 650 sks, 260 oz dye, 15 qts KCL

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting @ 3:30pm. Circulate @ 3:59pm. Cement @ 4:06pm to 4:22pm. Displace Drop plug @ 4:24pm. Displace @ 4:25pm
10 bbls - 250 psi @ 7.0 bbls/min
20 bbls - 300 psi @ 7.0 bbls/min
30 bbls - 400 psi @ 7.0 bbls/min
40 bbls - 500 psi @ 6.0 bbls/min
49.5 bbls - 300 psi @ 1.0 bbls/min
Bump plug @ 450 psi @ 4:39pm. Float collar held
Used 279 sks, 63.1 bbls slurry, 3 1/2% excess
left location with - 371 sks, 100 oz dye, 10 qts KCL

4 bbls - pit

AUTHORIZATION TO PROCEED

TITLE

DATE