

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10631

LOCATION WCR 44+57

FOREMAN Mike Rosalez
LIR mark

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-30-11	Willmoth C-14-240	14	4	64	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Saxon 143
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	11:40 am	TIME LEFT LOCATION	2:00 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH	680	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD 627-01	655	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE	8 5/8	TUBING CONDITION		TUBING	

CASING DEPTH	672.5	673.41	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT	24105	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION	Good			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
				<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM

PRESSURE SUMMARY					
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 HP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Sattymetung, PSE TEST 500 PSE, Circulate 40 BBls H₂O / KCL mix
2nd 10 Dye mix Pump 288 SKS Cement (30% Excess) yield 1.27 at 15-2 PPS or until Comp
Stoppes us, Release Plug Displace 37 BBls H₂O Bump Plug 150 PSE over 1st wait 5min Release
PSE Washup Rig Down, No more then 30% Excess H₂O Test Good
Arrived with 575 SKS 10% KCL 100L Dye Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymetung 12:07 am Circulate 12:43 am Cement 12:51 am
Drop Plug 1:06 am Displace 1:07 am

Used 7 % Excess
Used 237 SKS Cement
53.666 bbls Slurry
10 BBls at 280 Psi 1:09 am 7.0666 bbls/m
20 BBls at 380 Psi 1:11 am 7.0666 bbls/m
30 BBls at 430 Psi 1:12 am 7.0666 bbls/m
35 BBls at 310 Psi 1:16 am 10.6666 bbls/m
417 Bump Plug 530 Psi at 1:16 am Float Collar Held

5 BBls Back

Left with 338 SKS Cement 6 gals KCL & Dye

[Signature]
AUTHORIZATION TO PROCEED

[Signature]
TITLE

11-30-11
DATE

Customer 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.