

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10164
LOCATION WCR 70453
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-24-11	Howard USXA 09-120	9	6N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Saxon Rig 143</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:00 AM</u>	TIME LEFT LOCATION <u>7:45 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>750</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 710.78</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>745.73</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		<input checked="" 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	
			<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 Rig up, Safety meeting, Per Company Man, Circ 40 bbls H₂O with KCL + Dye x 10 in 2nd 5 bbls, Mix + pump till dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Do not go over 10% Excess without Talking to Company Man, Drop plug, Displace 45.2 bbls H₂O, Bump plug at 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down, H₂O Tested good, WE HAVE 650 SK, 32 oz Dye, 9 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 6:00 am, Circ 6:17 am, Cement 6:25 am, to 6:42 am
Drop Plug 6:43 am, Displace 6:44 am
10 bbls 310 Psi 6:47 am 6.0 bbls/m
20 bbls 300 Psi 6:49 am 6.0 bbls/m
30 bbls 400 Psi 6:51 am 6.0 bbls/m
40 bbls 410 Psi 6:53 am 5.0 bbls/m
45.2 bbls 350 Psi 6:56 am 1.0 bbls/m
Bump Plug 530 Psi at 6:56 am Float Collar Held
USED 0% Excess = 244 SKs, 55.18 bbls SLURRY
Left with 406 SKs, 22 oz Dye, 5 Qts KCL

7 bbls Slurry To The P.T

[Signature]
AUTHORIZATION TO PROCEED

CO MAN
TITLE

6-24-11
DATE