

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9027
LOCATION Hwy 66 + 19
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-6-10	HORSE IRON P 21-27D	21	3N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>5:15 pm.</u>	TIME LEFT LOCATION <u>1:00 am.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>566</u>	TUBING DEPTH	SHOTS/FT			
<u>PBTD 524.51</u>	TUBING WEIGHT	OPEN HOLE			
CASING SIZE <u>8 5/8</u>	TUBING CONDITION				
CASING DEPTH <u>564.02</u>		TREATMENT VIA			
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH				
CASING CONDITION <u>Good</u>					

PRESSURE SUMMARY				TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM	psi			<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	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Circ 30 bbls H₂O with KCL + Dye x 10 in 2nd 10 bbls. Mix + pump tell Dye is seen then pump tub only, at 15.2 lbs. 127 yield, Drop plug, Displace 33.4 bbls H₂O, Bump plug at NO MORE THEN 150 PSI over Lift PSI, Wait 5 min. then bleed off PSI, Wash up, Rig down, H₂O TESTED OK, WE HAVE 600 SACKS CEMENT, 26 oz. Dye, 23 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:43 pm, Circ 11:08 pm, CEMENT 11:14 pm
Drop plug 11:40 pm, Displace 11:44 pm

10 bbls 340 Psi 11:49 pm 7.0 bbls/m
20 bbls 440 Psi 11:50 pm 7.0 bbls/m
30 bbls 360 Psi 11:52 pm 4.5 bbls/m
33.4 bbls 240 Psi 11:55 pm .8 bbls/m

Bump Plug 360 Psi at 11:55 pm PSI Held for 5 min
USED 40 % Exces = 260 SACKS CEMENT, 58.8 bbls SLURRY
Left with 340 SACKS CEMENT, 16 oz. Dye, 20 qts KCL
7 bbls SLURRY TO THE PIT

[Signature]

AUTHORIZATION TO PROCEED

TITLE

6-6-10

DATE