

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9033
LOCATION Hwy 66 + 17
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-22-10	SALAZAR P 20-32D	20	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>7:55 am</u>	TIME LEFT LOCATION <u>1:30 pm.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>906.2</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 84 1/2</u>	<u>831.24</u>	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>890.43</u>	<u>873.39</u>	TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>			<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 Rig up, Safety meeting, Per Company man, Circ 50 bbls with KCL + Dye x 16 in 2nd
10 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Drop plug, Displace
52.9 bbls. H₂O, Bump plug at NO MORE THEN 150 Psi OVER Lift Psi, Wait 5 min then bleed off Psi,
Washup, Rig down, H₂O Tested good, We have 650 SACKS CEMENT, 10 QTS KCL, 26 OZ. Dye.
TP loss Circ Pump 50% Excess AND Displace 10 bbls. Then do Top Job

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 11:17 am, Circ 11:37 am, CEMENT 11:47 am
Drop Plug 12:18 pm, Displace 12:19 pm
10 bbls 200 Psi 12:23 pm 7.0 bbls/m
20 bbls. 310 Psi 12:25 pm 7.0 bbls/m
30 bbls. 410 Psi 12:27 pm 7.0 bbls/m
40 bbls. 520 Psi 12:29 pm 7.0 bbls/m
50 bbls. 460 Psi 12:31 pm 4.5 bbls/m
52.9 bbls. 380 Psi 12:36 pm 1.8 bbls/m
Bump Plug 490 Psi, Psi Held for 5 min.
USED 10% Excess = 324 SACKS CEMENT, 73.28 bbls. SLURRY
Left with 326 SACKS CEMENT, 10 OZ. Dye, 5 QTS KCL
8 bbls Slurry To The Pit

Mike [Signature]
AUTHORIZATION TO PROCEED

TITLE

6-22-10

DATE