

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-298-8143
 E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 9641
 LOCATION Hwy 392 & 61
 FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-20-11	NCLP PCAA08-03D	8	6N	63w	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>5:20 pm</u>	TIME LEFT LOCATION <u>3:30 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>568</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTD-520,58</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>562.68</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	
			<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 Co Man, Press test 1000 lbs, circ run 30bbls H₂O with KCL with Dye x 10 in 2nd 10bbls, mix and pump til dye is seen, then pump tub only, @ 15, 2 with yield 1.27, drop plug displace 33.1bbls bump plug @ 500psi over lift press, hold for 5min, bleed off press, wash up rig down, H₂O tested good. We have 700SKs, 32oz dye, 14gts KCL

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety meeting, ~~at~~ 12:54 AM, Circ 2:07 AM, Cement 2:12 to 2:24 AM drop plug @ 2:26 AM, displace 2:27 AM, 10 bbls - 2:30 AM @ 180 psi @ 7.0 bbls/min, 20 bbls - 2:32 AM @ 390 psi @ 7.0 bbls/min, 30 bbls - 2:33 AM @ 380 psi @ 4.5 bbls/min, 33.1 bbls 2:37 AM @ 200 psi @ 1.0 bbls/min, Did not bump plug, Float collar held, used 204 sks, 46.74 bbls slurry, 10% excess left with 496 sks, 22oz dye, 11gts KCL

7 bbls to pit

[Signature]
 AUTHORIZATION TO PROCEED

TITLE

3-20-11
 DATE

Customers 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.