

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 # 10259
LOCATION WCR 51434
FOREMAN Grant Lowe

TREATMENT REPORT

DATE 8-2-11	WELL NAME LDS D17-18	SECTION 17	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign #126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:30 AM		TIME LEFT LOCATION 10:45 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 702	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 650.66	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 696		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION 600P			<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 500psi, Circulate 40 bbls H₂O/KCL with dye x's 16oz, in 2nd 10 bbls. Mix and pump cement @ 15.2 density @ 1.27 yield, until dye is seen, bump tab only, not to exceed 40% excess, with out consulting Co man, Drop plug displace 41.4 bbls bump plug @ 150psi over lift press, wait 5 min. Release press, Wash up, Rig down, H₂O tested good, Arrived on location with 600 sts, 32oz dye 13 gts KCL**

JOB SUMMARY
DESCRIPTION OF JOB EVENTS. **Safety meeting @ 8:00 AM, Circ @ 8:29 AM, Cement @ 8:35 AM to 9:00 AM, Drop plug @ 9:02 AM, bump plug @ 9:03 AM, displace @ 9:03 AM, bump plug @ 9:10 AM**

10 bbls @ 250 psi @ 9:04 AM @ 7.0 bbls/min	10% Excess - bottom
20 bbls @ 340 psi @ 9:06 AM @ 7.0 bbls/min	15% Excess - Top
30 bbls @ 420 psi @ 9:07 AM @ 7.0 bbls/min	25% Excess - total
40 bbls @ 300 psi @ 9:08 AM @ 1.0 bbl/min	286 Sacks
41.4 bbls @ 300 psi @ 9:10 AM	61.8 bbls slurry
Top job 5 bbls slurry	3 bbls to pit

Float collar held.

Left location with 31 1/4 sts, 16oz dye, 9 gts KCL

GR L O AUTHORIZATION TO PROCEED
CO-MAN TITLE
8-2-11 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.