

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10274
 LOCATION WCR 44 & 55
 FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-23-11	Stackley C15-79HN	15	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>HAP 322</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>12:45pm</u>	TIME LEFT LOCATION <u>7:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>763</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 711.72</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>757</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 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 <u>H₂O/KEL</u>	

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 to 1000 psi, Circulate 60 bbls with dye & 16 oz in 2nd 10 bbls. Mix and pump cement 15.2 density @ 1.27 yield until dye is seen, pump tub only, not to exceed 30% excess without consulting Co man. Drop plug displace 55 bbls, bump plug 500 psi over lift press, wait 5 min, release press, Wash up rig down, H₂O of std good. Arrived on location with 700 sks, 32 oz dye, 15 gts KEL

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety meeting @ 5:00pm, Circulate @ 5:41pm, Cement @ 5:51pm to 6:09pm. Drop plug @ 6:11pm, displace @ 6:12pm

<u>10 bbls @ 220 psi @ 6:14pm @ 7.0 bbls/min</u>	<u>6% Excess</u>
<u>20 bbls @ 280 psi @ 6:15pm @ 7.0 bbls/min</u>	<u>336 sacks</u>
<u>30 bbls @ 350 psi @ 6:17pm @ 7.0 bbls/min</u>	<u>76 bbls slurry</u>
<u>40 bbls @ 420 psi @ 6:19pm @ 7.0 bbls/min</u>	<u>3 bbls to pit</u>
<u>50 bbls @ 400 psi @ 6:20pm @ 5.0 bbls/min</u>	
<u>55 bbls @ 350 psi @ 6:21pm @ 1.0 bbl/min</u>	
<u>Bump plug @ 550 psi @ 6:22pm</u>	
<u>Floot collar held.</u>	
<u>Left location with 364 sks, 16 oz dye, 9 gts KEL</u>	

[Signature]
 AUTHORIZATION TO PROCEED

WSS
 TITLE

8-23-11
 DATE