

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8761
LOCATION Washington St. + 164th AVE.
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-4-10	LARKridge MA 03-16D	3	1S	68W	Adams	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>12:30 AM.</u>	TIME LEFT LOCATION <u>7:15 AM.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1179.5</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1129.7</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1172.65</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>3216</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
			<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
			<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
			<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, Circ 70 bbls. H₂O with KCL + Dye x 16 in 2nd 10 bbls. Mix + pump 30% Excess = 499 Sacks cement, 112.86 bbls. Slurry at 15.2 lbs. 1.27 yield with 1 gal of Retarder for every 10 bbls of mix H₂O or tell Dye is seen then pump tub + 10 bbls of Slurry, Drop plug, Displace 68.8 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down, Water tested good, We have 700 sacks cement, 3202 Dye, 23 qts KCL, 10 gals. Retarder,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 4:01 am, Circ 4:37 am, Cement 4:50 am
Drop plug 5:16 am, Displace 5:18 am
10 bbls. 170 Psi 5:22 am 7.0 bbls/m USED 384 Sacks cement 0% Excess
20 bbls. 170 Psi 5:24 am 7.0 bbls/m 86.85 bbls Slurry
30 bbls. 190 Psi 5:25 am 7.0 bbls/m Top Job
40 bbls. 300 Psi 5:27 am 7.0 bbls/m USED 57 Sacks cement 12.89 bbls Slurry
50 bbls 420 Psi 5:29 am 7.0 bbls/m Total used 441 Sacks cement, 15% Excess
60 bbls. 460 Psi 5:30 am 6.0 bbls/m 99.74 bbls. Slurry
68.8 bbls. 200 Psi 5:35 am .8 bbls/m Company man stopped me at 0% Excess
Bump Plug 300 Psi at 5:35 am
Left with 259 Sacks cement, 1602 Dye 16 qts KCL, 4 gals. Retarder
2 bbls Slurry To The P.T

Charles C. [Signature]

LSS

2-4-10

AUTHORIZATION TO PROCEED

TITLE

DATE