

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11293

LOCATION Wells Ranch

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-11-12	Wells Ranch AC18-62-14N	18	6N	62W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H&P Rig 315
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 4:20 am.	TIME LEFT LOCATION 1:30 pm.

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 643	TUBING DEPTH	SHOTS/FT			
PBTD 590.62	TUBING WEIGHT	OPEN HOLE			
CASING SIZE 9 5/8	TUBING CONDITION				

CASING DEPTH 598.47	CONDUCTOR PIPE 16" 100'	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3616	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			<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

Casing Depth with L5633-33

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 Safety meeting, Rig up, Psi check to 1000 Psi, Mud Flush with 50 bbls H₂O with KCL + Dyex 16 in 2nd 10 bbls, Mix pump a man of 30% Excess = 356 SKS, 80.52 bbls Slurry at 15.2 lbs/27 yield or tell Company man sees good Dye, Drop plug, Displace 45.6 bbls H₂O, Bump plug at 150 Psi over Lift P, Wait 5 min then bleed off Psi, Casing Psi Test 1000 Psi for 15 min then bleed off Psi, Wash up, Rig down, We have 600 SKS, 32 oz Dye, 152 lbs KCL, Annular Vol. 13 3/4 Hole 9 5/8 Casing = 5258, Conductor Pipe 16" Hole 9 5/8 Casing = Cut/Lin Ft. 8909, 9 5/8 3616 Casing bbls/Lin Ft. 0.773

JOB SUMMARY DESCRIPTION OF JOB EVENTS Safety meeting 10:55 am, Mud flush 11:07 am, Cement 11:35 am to 11:55 am

Drop Plug 12:04 pm, Displace 12:05 pm
10 bbls 150 Psi 12:07 pm 4.0 bbls/min
20 bbls 220 Psi 12:11 pm 4.0 bbls/min
30 bbls 220 Psi 12:14 pm 3.0 bbls/min
40 bbls 230 Psi 12:19 pm 2.0 bbls/min
45.6 bbls 220 Psi 12:23 pm 1.0 bbls/min
Bump Plug 410 Psi at 12:23 pm
Casing Psi Test 1000 Psi at 12:25 pm to 1030 Psi at 12:40 pm
USED 40% Excess with 200 lbs Cel Floke 376 SKS, 85 bbls Slurry

DAVE NIELSEN

20 bbls Slurry To The P.T

[Signature]

WSS

12-11-12

AUTHORIZATION TO PROCEED

TITLE

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.