





CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	02-12-8178	DATE	5-26-96
STAGE	DS	DISTRICT	1115555, KS

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. Christopher 1-3	LOCATION (LEGAL) Sec 17-335-394	RIG NAME NORSEMAN #2
FIELD-POOL	FORMATION	WELL DATA: BIT SIZE 2 1/4, CSG/Liner Size 8 7/8, TOTAL DEPTH 625, WEIGHT 74, ROT CABLE, FOOTAGE 018.59, MUD TYPE, GRADE 1555, BHST, BHCT, THREAD 825, MUD DENSITY 4.3, LESS FOOTAGE SHOE JOINT(S), MUD VISC. 36.6, DISP. CAPACITY
COUNTY/PARISH Stevens	STATE KS	API. NO.
NAME Mobil Oil Corp		TOTAL
AND ORIGINAL		

ADDRESS	ZIP CODE	NOTE: Include Footage From Ground Level To Head In Disp. Capacity
SPECIAL INSTRUCTIONS	SHOE DEPTH	SHOE DEPTH
IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TOOL TYPE	TOOL DEPTH
LIFT PRESSURE 254 PSI CASING WEIGHT + SURFACE AREA (3.14 x R <sup>2</sup> )	TOOL GRADE	TOOL DEPTH
PRESSURE LIMIT PSI BUMP PLUG TO 490 PSI	TOOL THREAD	TOOL DEPTH
ROTATE RPM RECIPROCATATE FT No. of Centralizers	TOOL SWAGE	TOOL DEPTH
	TOOL KNOCKOFF	TOOL DEPTH
	TOOL TOP OR BOT	TOOL DEPTH
	TOOL BOT OR D.P.	TOOL DEPTH
	TOOL SQUEEZE JOB	TOOL DEPTH
	TOOL SIZE	TOOL DEPTH
	TOOL WEIGHT	TOOL DEPTH
	TOOL GRADE	TOOL DEPTH
	TOOL THREAD	TOOL DEPTH
	TOOL SWAGE	TOOL DEPTH
	TOOL KNOCKOFF	TOOL DEPTH
	TOOL TOP OR BOT	TOOL DEPTH
	TOOL BOT OR D.P.	TOOL DEPTH
	TOOL SQUEEZE JOB	TOOL DEPTH

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME DATE			ARRIVE ON LOCATION TIME DATE		LEFT LOCATION TIME DATE		SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	
0001 to 2400												
2248	40											PRE-JOB SAFETY MEETING - PSI Test lines
2250		0	25		5.8	H2O						START H2O ahead
2255		120	76		5.8	CMT	12.8					START LEAD CMT.
2301		100		40	5.8	CMT	12.8					PSI check
2308		100	33		5	CMT	14.6					START TRAIL CMT.
2314		30		28	4	CMT	14.6					PSI check
2315		0										SHUTDOWN, DROP TOP PLUG
2317		0	36.6		4	H2O						START DISPLACEMENT
2321		70		15	4.5	H2O						PSI check
2322		150		20	5.6							CMT TO SURFACE
2323		150		30	2.5							LOWER RATE
2325		140		35	2.4							PSI check
2326		490		37	2.4							BUMP TOP PLUG
2327												SHUT IN CMT MANIFOLD
												bleed psi at
												END JOB

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED			
			1	2	3	4	BBLs	DENSITY		
1.	225	1.89	50c	50paz	6% gel	3% rach	5% D44	4 1/2" 1029	73.7	12.8
2.										
3.	150	1.22	50c	50paz	2.5% rach				32.5	14.6
4.										
5.										
6.										

JUN 7 1996

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	490 PSI
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	36.6 Bbls
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			Daniel Russell		James Esquivel

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-8181	DATE 2-29-98
STAGE DS	DISTRICT Ulysses, Ks.

DS-496A - PRINTED IN U.S.A.

WELL NAME AND NO. Christopher 1-3	LOCATION (LEGAL) Sec 12-335-39W	RIG NAME: NORSEMAN #2
FIELD POOL Hugoton	FORMATION	WELL DATA: BIT SIZE 2 7/8 TOTAL DEPTH 2899
COUNTY/PARISH Stevens	STATE Ks.	CSG/Liner Size 5 1/2 WEIGHT 14
NAME Mobil Oil Corp	API NO.	FOOTAGE 2890 98
AND		MUD TYPE GRADE 15555
		THREAD 820
		MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 45
		MUD VISC. Disp. Capacity 694

ADDRESS	ZIP CODE	ORIGIN
SPECIAL INSTRUCTIONS		

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 1705 PSI	CASING WEIGHT - SURFACE AREA (3.14 x R <sup>2</sup> )
PRESSURE LIMIT PSI	BUMP PLUG TO 1700 PSI	ROTATE RPM RECIPROCAT FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0816	2900				0530	2-29-98	0530	2-29-98	1030	2-29-98	
0817	0	25			5.8	H2O					
0821	280	69			5.8	cmt	11.5				
0828	180	40			5.8	cmt	11.5				
0833	50	18			4	cmt	14.8				
0836	140	12			4	cmt	14.8				
0838	0										
0841	0	694			5.8	H2O					
0848	120	30			5.8	H2O					
0850	220	40			5.8						
0852	420	50			5.7						
0853	660	60			2.2						
0856	660	69			2.2						
0856	1480	69			2.2						
0857											
0900	1700										
0901											

REMARKS  
PRE-JOB SAFETY MEETING 2 PSI test lines  
start 420 ahead  
start lead cmt.  
psi check  
start tail cmt.  
psi check  
shut down wash pump lines drop top plug  
start displacement  
psi check  
" "  
" "  
lower rate  
psi check  
bump top plug  
bleed psi off float not holding  
bump top plug again  
bleed psi off check float + holding

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	140	2.75	class C + 3% D79 + 2% D46 + 4% D29				68.5	11.5
2.								
3.	75	1.37	class C + 2% D28 + 2% cack + 6% D60 + 4% D29				18.2	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	694 Bbls
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			Donnie Russell		James Esquivel