



**DAILY DRILLING REPORT**  
**NIOBARRA DEVELOPMENT WELL**

WELL NAME <b>1-17 Schultz</b>	24 HR PROG <b>80</b>	FMD <b>405</b>	IWD <b>—</b>	REPT # <b>2</b>	DATE <b>3-19-01</b>
SUPERVISOR <b>Walt Smith</b>	RIG NAME & # <b>Stewart 51</b>	FIELD NAME <b>Cherry Cr</b>	AUTH ID <b>1600</b>	DAILY TANG \$	CUM TANG \$
CURRENT STATUS <b>Drilling 6 1/4 hole</b>	24 HR FORECAST <b>Drill to TD, Log, Run Csg &amp; cmt</b>			DAILY INT \$	CUM INTANG \$
LITHOLOGY <b>Sand, Shale</b>	LAST CASING <b>7 IN @ 318 FT</b>	NEXT CASING <b>4 1/2 IN @ 1373 FT</b>	DAILY TOTAL \$	CUM COST \$	CUM COST \$

MUD DATA		ADDITIVES		QTY		BIT RUN DATA				TURF DATA		
DENS (PPG)	<b>8.2</b>		<b>Gel</b>	<b>5</b>	BIT #	<b>1</b>	<b>2</b>	BIT #	<b>1</b>	<b>2</b>	STROKE	<b>10</b>
VIS (sec/qt)	<b>38</b>		<b>KCL</b>	<b>75</b>	SIZE (in)	<b>9 1/8</b>	<b>6 1/4</b>	DEPTH IN	<b>5</b>	<b>325</b>	LINER	<b>5</b>
WL-API	<b>8.8</b>		<b>Starch</b>	<b>30</b>	MFR	<b>—</b>	<b>Moab</b>	DEPTH OUT	<b>325</b>		SPM	<b>72</b>
pH	<b>~</b>		<b>Dispac</b>	<b>2</b>	TYPE	<b>—</b>	<b>Prog</b>	WOB (lb)	<b>415</b>	<b>515</b>	OUTPUT (KPM)	<b>195</b>
			<b>King out</b>	<b>1</b>	SERIAL #	<b>—</b>	<b>—</b>	RPM (min)	<b>60</b>	<b>100</b>	PRESS (psi)	<b>225</b>
			<b>Polymor</b>	<b>4</b>	REIS 1/23	<b>18</b>	<b>18 1/2</b>					

FROM	TO	HOURS	OPERATIONS SUMMARY
1415	1415	7 1/4	Drill 55 - 325' RT Blue Shale @ 175
1415	1500	3/4	Circulation @ 325'
1500	1630	1 1/2	TOO H
1630	2100	4 1/2	RAN 10 JTS (313.50') used 7" 17" H-40 Bad STC casing open-ended w/1 Centralizer landed @ 318' KB. Pumped 7 Bbl fresh water pre flush, 90 5x regular w/3% cc premixed @ 1.5-3 PPG, Displaced w/130 Bbl mud, Circ 3 Bbl cmt to surface cement in place @ 21:00.
2100	2500	8	WOC
0500	0700	2	Drilling 325-405
			Rig MOB-Demob 1000
			Rig surf hole 9600
			Rig 6 1/4 hole 1040
			Dig Pits -- 200
			Rd & Loc 200
			handle Csg 150
			Kevin 100
			PCI 565
			Water 150 / 13005

24 HR SUMMARY <b>Drill Surf, Run &amp; Cmt Surf Csg, WOC, Drill</b>	PAGE 1 of 1
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**NIOBARRA DEVELOPMENT WELL**

WELL NAME <b>1-17 Schultz</b>	24 HR PROG <b>980</b>	TMO <b>1385</b>	IVU <b>—</b>	REPT # <b>3</b>	DATE <b>3-20-01</b>
SUPERVISOR <b>Walt Smith</b>	RIG NAME & # <b>Stewart 51</b>	FIELD NAME <b>Sherry Cr</b>	AUTH ID <b>1600</b>	DAILY TANG <b>—</b>	CUM TANG <b>—</b>
CURRENT STATUS <b>Run 4 1/2 Casing</b>				DAILY INT <b>—</b>	CUM INTANG <b>—</b>
24 HR FORECAST <b>Circ log, Cement, 1 rod csg, Release rig</b>				DAILY TOTAL <b>24256</b>	CUM COST <b>37261</b>
LITHOLOGY <b>—</b>	LAST CASING <b>IN @ 318 FT</b>	NEXT CASING <b>4 1/2 IN @ 1373 FT</b>	AFE # <b>—</b>		

MUD DATA		ADDITIVES		QTY		BIT RUN DATA				SUM DATA	
DENS (PPG)	8.7	Starch	7	BIT #	2	BIT #	2	STROKE	10		
VIS (sec/cf)	45	Ring out	2	SIZE (in)	6 1/4	DEPTH IN	325	LINER	5		
WL-API	6.8	KCL	17	MFR	Moab	DEPTH OUT	1385	SPM	72		
pH		Dispac	1	TYPE	Drag	WOB (lb)	10,15	OUTPUT (GPM)	195		
				SERIAL #	—	RPM	90,105	PRESS (PSI)	275		
				TEST 1/2/3	—						

FROM	TO	HOURS	OPERATIONS SUMMARY
0700	2215	15 1/4	Drilling 405 - 1385' KB
2215	2300	3/4	Circulate @ 1385
2300	2330	1/2	Short trip 1385-985
2330	2415	3/4	Circulate @ 1385
2415	0230	2 1/4	Log down drill string
0230	0415	1 3/4	Ran E-log; DL 1377-318, CNL-FDC 1367-700', Log TD 1385'. Beecher Island 1232-1269, Ave Res 4 1/2-4 3/4 min 4, max 6, Ave X0 1232-1259 21%, 1259-1269 30%
0415	0700	2 3/4	Ran 4 1/2 Prod Csg Ran 55 float shoe 1.42' on 34 Jts (1367.44') new 4 1/2 10 <sup>5</sup> J-55, 8rd 5TC casing. Total 1368.86' set @ 1373' KB Schlumberger 4000 Rig 12740 handle Csg- 200 float equip 775 24256 Well head 575 Casing 5301 Kevin 100 PCI 565 / 11514

24 HR SUMMARY  
 Drilled to TD, lay down, log, run Prod csg

**DAILY DRILLING REPORT**  
**NIOBARA DEVELOPMENT WELL**

WELL NAME <b>1-177 Schultz</b>		24 HR PROG <b>-0-</b>	TMD <b>1385</b>	TVD <b>—</b>	REPT # <b>4</b>	DATE <b>2-21-01</b>
SUPERVISOR <b>Walt Smith</b>		RIG NAME & # <b>Stewart 51</b>	FIELD NAME <b>Cherry Cr</b>	AUTH TO <b>1600</b>	DAILY TANG \$ <b>—</b>	CUM TANG \$ <b>—</b>
CURRENT STATUS <b>WOC 4 1/2 Prod Csg</b>					DAILY INT \$ <b>—</b>	CUM INTANG \$ <b>—</b>
24 HR FORECAST <b>WOC</b>					DAILY TOTAL \$ <b>1143</b>	CUM COST \$ <b>38404</b>
LITHOLOGY		LAST CASING <b>4 1/2 IN @ 1373 FT</b>	NEXT CASING <b>— IN @ — FT</b>		AFT # <b>—</b>	AUTH COST \$ <b>—</b>
MUD DATA		ADDITIVES	QTY	BIT RUN DATA		PUMP DATA
DENS (lb/gal)				BIT #		STROKE
VIS (sec/qt)				SIZE (in)	DEPTH IN	LINER
WL- API				MFR	DEPTH OUT	SPM
pH				TYPE	WOB (lb/ft)	OUTPUT (gpm)
				SERIAL #	RPM	PRESS (psi)
				TEST 1/2/3		
FROM	TO	HOURS	OPERATION SUMMARY			
0700	0800	1	Run 4 1/2 Csg			
0800	0830	1/2	Circulate Csg @ 1373			
0830	0900	1/2	Cement 4 1/2 Csg as follows: Pump 10 Bbl fresh water pre flush 100 5x regular cement premixed @ 153 PPG, Wash out lines, Displace Latch down plug w/ 21.2 Bbl fresh Water. Float held			
0900	0930	1/2	Hang Csg in slips w/ 12000 <sup>lb</sup> and flange up wellhead			
0930	—	—	Released Rig @ 09:30			
			Cement 368 Rig DW 1hr 275 1143			

24 HR SUMMARY  
**Run prod Csg, Cement Csg, flange up wellhead, release rig**