

DAILY DRILLING REPORT
NIOBRARA DEVELOPMENT WELL

WELL NAME 7-20 Rainon	24 HR DRUG 324	TMD 329	TVD —	REPI # 1	DATE 3-21-01
SUPERVISOR Walt Smith	RIG NAME & # Stewart 51	FIELD NAME Cherry Cr	AUTH ID 1650	DAILY TANG \$	CUM TANG \$
CURRENT STATUS WOC Surface Casing				DAILY INT \$	CUM INTANG \$
24 HR FORECAST Drill to TD, Log Run & Cmt Prod Csg				DAILY TOTAL \$ 11985	CUM COST \$ 11985
LITHOLOGY Sand, Shale clay	LAST CASING IN @ 322 FT	NEXT CASING 4 1/2 IN @ 1460 FT		AFC #	AUTH COST \$

MUD DATA		ADDITIVES		QTY		BIT RUN DATA				TUM DATA	
DENS (lb/gal)	54	GEL	25	BIT #	1	BIT #	1	STROKE	10		
VIS (sec/gal)	97	Drizpac	1	SIZE (in)	9 7/8	DEPTH IN	5	LINER	5		
WL-API	NC	Polymer	1	MFR	—	DEPTH OUT	329	SPM	72		
pH	—	Soda Ash	1	TYPE	—	WOB (lb)	4,115	OUTPUT (bbl)	195		
				SERIAL #	—	RPM	60,100	PRESS (psi)	200		
				RETS 1/2/3	18,18,18						

FROM	TO	HOURS	OPERATIONS SUMMARY
1200	1615	4 1/4	MIRU Notify Herb Dyness, KCC, 3-15-01, 13:45
1615	2015	4	Drill Surface 5' - 329' KB Shale @
2015	2045	1/2	Circulate @ 329' KB
2045	2130	3/4	TOO H
2130	0230	5	RAN 9 Jts (316.78') used 7" 17 th 8nd 5TC open-ended casing w/ Centralizer landed @ 322' KB. Pumped 7 bbl fresh water preflush, 90 sx regular premixed w/ 3% CC @ 15 ³ PPG, displace w/ 12.9 bbl MVD. Circ 2 bbl Cement to surface, cement in place @ 03:30
0230	0700	4 1/2	WOC Rig mob-Demoh 1000 Rig Surt Hole 9720 Dig Pits 200 RA & Loc 200 Handle Csg 200 Fuel 100 PCI 565 <u>11985</u>

24 HR SUMMARY
MIRU, drill surface hole, Run & Cmt Surt Csg, WOC

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DAILY DRILLING REPORT
NIOBARRA DEVELOPMENT WELL

WELL NAME 1-20 Calnon	24 HR PROG 1136	TMD 1465	TVD —	REPI # 2	DATE 3-22-01
SUPERVISOR Walt Smith	RIG NAME & # Stewart 51	FIELD NAME Cherry Cr.	AUTH. ID. 1650	DAILY TANG \$	CUM TANG \$
CURRENT STATUS Laying down drill string				DAILY INT \$	CUM INTANG \$
24 HR FORECAST Run Cag & Cmt.				DAILY TOTAL \$ 15,833	CUM COST \$ 27,818
LITHOLOGY Sand, Shale, Chalk		LAST CASING IN @ 322 FT	NEXT CASING IN @ 412 IN @ 1460 FT	AFE # —	AUTH COST \$

MUD DATA		ADDITIVES		QTY		BIT RUN DATA				PUMP DATA	
DENS (ppg)	9.1	KCL	100	BIT #	2	BIT #	2	STROKE	10		
VIS (sec/qt)	52	Starch	25	SIZE (in)	6 1/4	DEPTH IN	329	LINER	5		
WL-API	4-8	Polymer	4	MFR	Moab	DEPTH OUT	1465	SPM	72		
PH	7	Drizpac	1	TYPE	Drag	WOB (min/max)	5.15	OUTPUT (min)	195		
				SERIAL #	—	RPM (min/max)	65/100	OUTPUT (max)	325		
				ACTS 1/2/3	—						

FROM	TO	HOURS	OPERATIONS SUMMARY
0700	1130	4 1/2	WOC
1130	0315	15 3/4	Drilling 329 - 1465 Drld 5' Cement
0315	0345	1/2	Circulate @ 1465
	0415	1/2	Short Trip 1465 - 1030
	0500	3/4	Circulate @ 1465
	0700	2	Lay down drill string
			Rig 14768
			Water 250
			Kevin 100
			PCI 565
			Haul Water 150
			<u>15833</u>

24 HR SUMMARY
WOC, Drill to TD, Circ, Short Trip, Circ
Lay down pipe

DAILY DRILLING REPORT
NIOBARRA DEVELOPMENT WELL

WELL NAME 1-20 Calmar		24 HR PROG -0-	TMD 1465	TVD —	REPT # 3	DATE 3-23-01
SUPERVISOR Walt Smith		RIG NAME & # Stewart 51	FIELD NAME Cherry Cr	AUTH ID 1650	DAILY TANG \$	CUM TANG \$
CURRENT STATUS WOC		24 HR FORECAST WOC			DAILY INT \$	CUM INTANG \$
LITHOLOGY —		LAST CASING 4 1/2 IN @ 1443'	NEXT CASING — IN @ —		DAILY TOTAL \$ 12911	CUM COST \$ 40,729
MUD DATA		ADDITIVES	QTY	BIT RUN DATA		PUMP DATA
DENS (PPG)		Ring out	2	BIT #		STROKE
VIS (sec/qt)		KCL	15	SIZE (in)	DEPTH IN	LINER
WL- API		Starch	6	MFR	DEPTH OUT	SPM
PH		Soda Ash	3	TYPE	WOB (lb/ft ²)	OUTPUT (GPM)
				SERIAL #	RPM	PRESS (PSI)
				TEST 1/2/3		
FROM	TO	HOURS	OPERATIONS SUMMARY			
0700	0730	1/2	Lay down drill string			
0900	11/2	1 1/2	Run E-Logs: DIC 1437 - 323, CNL-FOC 1430 - 650, Log TD 1445, Beacher Island 1299 - 1338, Ave Res 3 1/4, MIN 3, MAX 4, Ave x 0 1299 - 1328 12%, 1328 - 1338 18%			
0900	1530	6 1/2	Run & CMT's 4 1/2 Prod Csg Ran 55 float shoe 1.42' on 36ft (1448.50') new 4 1/2 10 ³ J-55 8rd 5TC casing. Total 1449.92' set @ 1443' KB Circ 1/2 hr. Pumped 10 bbl fresh water preflush, 100 5x regular premixed @ 15 ³ PPG. Wash out lines displaced latch down plug w/ 28.3 bbl fresh water. Plug down @ 15:30 Float held PSTD 1403' KB			
1530	1630	1	Hanging Csg w/ 12500 ³ Flange up well head - cut off casing - could not get casing to 1454' KB due to bridge			
1630	—	—	Released Rig @ 16:30			
24 HR SUMMARY Lay down pipe, Run E-Logs, Run & CMT Prod casing, hanging casing, Release Rig						

