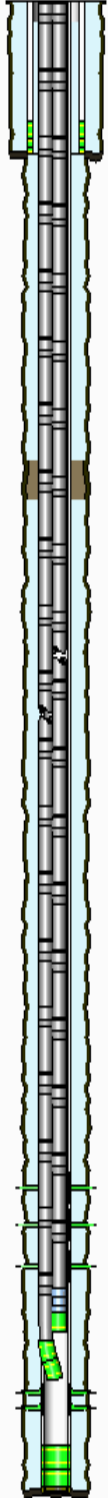


**KERR-MCGEE OIL AND GAS ONSHORE LP**  
**PIONEER 31-12**  
**SW NE 11 2N 65W 2,192' FNL 2,169' FEL**  
**WELD,COLORADO**  
**05/22/2013**

AREA: S5      ROUTE: S56    Spud: 02/11/2009    WINS No.: 07004    AFE/WO#: 88336584    API#: 0512329647

GL: 4854    KB: 4874    MTD: 7760    TVD: 7247    LOG MD: 7707    PBMD: 7725    PBTVD: 7211

Directions: **WCR 22 & WCR 49; W 1.0; N 0.3; NW 0.5 INTO**



<u>HOLE SECTIONS</u>		<u>Size</u>	<u>Top</u>	<u>Btm</u>	<u>TD Date</u>				
SURFACE		12.25	20	811	02/11/2009				
PRODUCTION		7.88	811	7760	02/14/2009				
<u>TUBULARS</u>		<u>Tool Type</u>	<u>Joints</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Top D</u>	<u>Bottom D</u>
<b>SURFACE CASING</b>									
	Casing		17	8.63	24.00	J-55	STC	20	778
	Baffle		1	8.63				778	778
	Shoe Joint		1	8.63	24.00	J-55	STC	778	801
	Saw Tooth Shoe		1	8.63		J-55		801	802
<b>PRODUCTION CASING</b>									
	Casing		177	4.50	11.60	I-80	LTC	20	7725
	Latch Down Baffle		1	4.50				7725	7725
	Shoe Joint		1	4.50	11.60	I-80	LTC	7725	7745
	Casing Float Shoe		1	4.50				7745	7746
<b>PRODUCTION TUBING</b>									
	Tubing		238	2.37	4.70	J-55	External-Ups	20	7547
	XN Profile Nipple		1	2.38				7547	7549
	Notched Collar		1	2.38				7549	7549
<u>CEMENT JOBS</u>		<u>Stage</u>	<u>Sacks</u>	<u>Cement Jobs</u>		<u>Top D</u>	<u>Btm D</u>	<u>cbf</u>	
<b>SURFACE CASING</b>									
	PRIM CMT 1ST STAGE		500	LEAD	NEAT TYPEIII	20	811	No	
<b>PRODUCTION CASING</b>									
	PRIM CMT 1ST STAGE		475	LEAD	ECONOCEM	3000	6840	Yes	
	PRIM CMT 1ST STAGE		150	TAIL	FRACCEM	6840	7760	Yes	
<b>PRODUCTION CASING</b>									
	ONE INCH JOB		525	LEAD	FRESH WATER	150	2953	Yes	
<u>PERFORATIONS</u>									
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>Date</u>	<u>Reason</u>	<u>Comments</u>			
NIOBRARA	A	7286	7288	08/10/2009	PRODUCTION				
NIOBRARA	B	7339	7351	08/10/2009	PRODUCTION				
NIOBRARA	C	7430	7440	08/10/2009	PRODUCTION				
CODELL		7577	7592	08/07/2009	PRODUCTION				

Comments: