

KERR-MCGEE OIL AND GAS ONSHORE LP

WARDELL 11-20

SE SW 20 3N 65W 1,305' FSL 1,336' FWL

WELD,COLORADO

07/17/2014

AREA: E1

ROUTE: E15

Spud: 06/26/2008

WINS No.: 92955

AFE/WO#: 88478413

API#: 0512325888

GL: 4907

KB: 4923

MTD: 7519

TVD: 7397

LOG MD: 7564

PBMD: 7524

PBTVD: 7402

Directions: WCR 39 & WCR 32; SOUTH 3/4 MILE; EAST 1/4 MILE; NORTH INTO



<u>HOLE SECTIONS</u>	<u>Size</u>	<u>Top</u>	<u>Btm</u>	<u>TD Date</u>				
SURFACE	12.25	16	790	06/26/2008				
PRODUCTION	7.88	790	7565	06/29/2008				
<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>
SURFACE CASING								
	Casing	16	8.63	24.00	J-55	ST&C	17	730
	Baffle	1	8.10				730	730
	Casing	1	8.63	24.00	J-55	ST&C	730	774
	Casing Guide Shoe	1	9.00				774	775
PRODUCTION CASING								
	Casing	172	4.50	11.60	I-80	8RD LTC	16	7524
	Latch Down Baffle	1	4.00				7524	7524
	Casing	1	4.50	11.60	I-80	8RD LTC	7524	7552
	Casing Float Shoe	1	5.00				7552	7554
PRODUCTION TUBING								
	Tubing	238	2.38	4.70	J-55	External-Ups	0	7363
	Seating Nipple	1					7363	7364
	Notched Collar	1					7364	7364
PRODUCTION TUBING								
	Wellbore Equipment	238	238.00		J-55		16	7373
	Wellbore Equipment	1	2.38				7373	7374
	Wellbore Equipment	1	2.38		J-55		7374	7375
<u>CEMENT JOBS</u>	<u>Stage</u>	<u>Sacks</u>	<u>Cement Jobs</u>			<u>Top D</u>	<u>Btm D</u>	<u>cbl</u>
SURFACE CASING								
	PRIM CMT 1ST STAGE	322	LEAD	TYPE 3		16	778	No
PRODUCTION CASING								
	PRIM CMT 1ST STAGE	220	LEAD	PREMIUM LITE CEMENT		3440	4965	Yes
	PRIM CMT 1ST STAGE	130	MIDDLE	PREMIUM LITE		4965	6703	Yes
	PRIM CMT 1ST STAGE	175	TAIL	POZZOLAN W/ BENTONITE		6703	7556	Yes
PRODUCTION CASING								
	ONE INCH JOB	200	DISPLACE	FRESH WATER		630	1620	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	7120	7126	07/23/2008	PRODUCTION			
NIOBRARA	B	7152	7166	07/23/2008	PRODUCTION			
NIOBRARA	C	7252	7272	07/23/2008	PRODUCTION			
CODELL		7392	7408	07/22/2008	PRODUCTION			

Comments: