

KERR-MCGEE OIL AND GAS ONSHORE LP

**HSR-IRWIN 4-1A
NW NW 1 3N 66W -- --
WELD,COLORADO
01/19/2015**

AREA: N1 ROUTE: N11 Spud: 09/01/1991 WINS No.: 76497 AFE/WO#: 88644646 API#: 0512315147

GL: 4865 KB: 4875 MTD: 7935 TVD: 7935 LOG MD: PBMD: 7903 PBTVD: 7903

Directions: WCR 35 & WCR 38, S 1/10, E INTO



<u>HOLE SECTIONS</u>	<u>Size</u>	<u>Top</u>	<u>Btm</u>	<u>TD Date</u>			
SURFACE	12.25	10	465	09/01/1991			
PRODUCTION	7.88	465	7466	09/05/1991			
DEEPENED	3.88	7466	7930	11/12/2001			

<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	10	8.63	24			10	454
PRODUCTION CASING	Casing	181	4.50	11.6	I-70	LTC	10	7455
		1	4.50				7455	7456
	Casing Guide Shoe	1	4.50				7456	7457
DEEPENED LINER	Liner Hanger	1			RMT		7382	7386
		17	2.88	6.5	N-80	8RD EUE	7386	7903
		1	2.88				7903	7904
		1	2.88	6.5	N-80	8RD EUE	7904	7933
	Casing Guide Shoe	1	2.88				7933	7934
PRODUCTION TUBING	Tubing	145	2.38	4.7	J-55		10	4523
	Packer	1	4.50				4523	4529
	Tubing	90	2.38	4.70	J-55	External-Ups	4529	7342
	XN Profile Nipple	1	2.38				7342	7343
	Notched Collar	1	2.38				7343	7344

<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	STAGE 1	320	NEAT	10	454	No
PRODUCTION CASING	STAGE 1	145	PREMIUM	6510	7456	Yes
DEEPENED LINER	STAGE 1	25	G	7382	7934	Yes
SURFACE CASING	PRIM CMT 1ST STAGE			4237	4700	No
SURFACE CASING	TOP OUT JOB			294	1500	No

<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		7025	7040	10/17/1991	PRODUCTION	
	NIOBRARA		7094	7106	10/17/1991	PRODUCTION	
	NIOBRARA		7175	7202	10/17/1991	PRODUCTION	
	CODELL		7316	7328	09/11/1991	PRODUCTION	
	CODELL		7320	7328	02/09/1999	PRODUCTION	
	CODELL		7329	7332	09/11/1991	PRODUCTION	
	J SAND		7790	7796	11/20/2001	PRODUCTION	
	J SAND		7815	7847	11/20/2001	PRODUCTION	

Comments: