

KERR-MCGEE ROCKY MOUNTAIN CORP
KLEIN 1
SW NW 8 4N 67W -- --
LAT: 40.32920 LONG: -104.92150
WELD,COLORADO
02/22/2012

AREA: N2 ROUTE: N25 Spud: 11/13/1984 WINS No.: 76759 AFE/WO#: 2069692 API#: 0512312114
GL: 4832 KB: 4844 MTD: 7250 TVD: 7250 LOG MD: PBMD: 7140 PBTVD: 7140
Directions: WCR 15 & HWY 60, S 3/8 MILE, E INTO LOCATION, 100 YDS E OF TK BATT

<u>TUBULARS</u>	<u>Tool Type</u>	<u>Joints</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>	<u>Top D</u>	<u>Bottom D</u>
SURFACE CASING									
	Casing	8	8.63	24.00				12	334
PRODUCTION CASING									
	Casing	35	4.50	11.6	N-80			5780	7178
	Casing	1	4.50	11.6	N-80			7178	7219
		1	4.50					7219	7220
	Casing Guide Shoe	1	4.50					7220	7221
PRODUCTION CASING PATCH									
	Casing	134	4.50	11.60	N-80			12	5779
	Casing	1	4.50		N-80			5779	5780
PRODUCTION TUBING									
	Tubing	227	2.38	4.7	J-55	8RD EUE		12	7005
	Seating Nipple	1	2.38					7005	7006
	Notched Collar	1	2.38					7006	7007

<u>CEMENT TYPE</u>	<u>Stage</u>	<u>Sacks</u>	<u>Cement Type</u>	<u>Top D</u>	<u>Btm D</u>	<u>cbl</u>	<u>est</u>	<u>Comments</u>
SURFACE CASING CEMENT								
	STAGE 1	215	REGULAR	12	334	No	Yes	circ cmt to pit
PRODUCTION CASING CEMENT								
	STAGE 1	250	G	5970	7220	Yes	No	

<u>PERFORATIONS</u>									
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>	<u>Reason</u>	<u>Comments</u>	<u>Producing</u>
NIOBRARA		6717	6728	2	22	01/23/1985	PRODUCTION		Yes
NIOBRARA		6818	6837	2	38	01/23/1985	PRODUCTION		Yes
NIOBRARA		6907	6928	2	42	01/23/1985	PRODUCTION		Yes
CODELL		7055	7072	2	34	01/23/1985	PRODUCTION		Yes
CODELL		7058	7068	3	30	03/27/2002	PRODUCTION		Yes

Comments:

Proposed Completion Procedure

1. Call foreman and/or lead operator before rig up to isolate any production equipment.
2. **NOTE:** Notify state representative 24 hours before MIRU.
3. Install anchors on location if needed and level the location for beam if ground on location is uneven.
4. MIRU WO rig. Kill well as necessary with fresh water.
5. ND wellhead. NU BOP. Unseat and lay down landing joint.
6. Drop standing valve and hydrotest tubing to 6,100 psi. If tubing fails pressure test, lay down tubing and pick up work string to plug the well.
7. PUH with 2-3/8" tubing to break any possible sand bridges. Do not exceed safety tensile load of 57,384 lbs. TOOH with 2-3/8" tubing
8. MIRU Vaughn Energy Services (VES) to run a gyro survey. RIH to approx. 6,660' KB (50' above top NB perms). RDMO VES. (charge VES gyro survey to separate AFE# 2062513.PDE)
9. MIRU wireline. TIH with 5K CIBP and set at 6,650' KB.
10. MIRU Halliburton. Spot 2 SX of cement on top of CIBP. Displace w/ 26 bbls water. Estimated top of cement plug at 6,624' KB.
11. PUH and re-land tubing at 3,700' KB. Reverse circulate w/ 29 bbls water or until returns are clean.
12. RDMO Halliburton. TOOH with tubing and stand back. Allow cement to set a minimum of 4 hours.
13. PU and TIH with 2-3/8" tubing open ended. Tag top of cement and record depth in OpenWells. TOOH with 2-3/8" tubing and stand all back.

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14. RIH with spear inside 4-1/2" casing. Use spear to pull up on and un-land 4-1/2" casing from slips.
15. Pick up on 4-1/2" casing to try and disengage casing patch located at 5,780' KB. If casing patch disengages, TOOH with 4-1/2" casing. If casing patch won't disengage then MIRU PSI and cut the 4-1/2" casing at 5,850' KB and pull casing. If unable to pull casing contact engineer to make plugging modifications.
16. PU 2-3/8" tbg and TIH open-ended. Land tbg 100' below 4-1/2" casing stub.
17. MIRU Halliburton cementers.
18. Spot 40 SX Class G cmt w/2% CaCl 100' below casing stub. Displace to top of cement estimated to be 100' above casing stub. PUH ~500' w/tbg and reverse circulate w/42 bbls water or until returns are clean. TOOH w/ 2-3/8" tbg and stand all back.
19. RDMO Halliburton and allow cement to set a minimum of 4 hours.
20. PU and TIH w/ 2-3/8" tbg open ended. Tag top of cement and record depth in OpenWells. PUH w/tbg and re-land @ 440' KB.
21. MIRU Halliburton cementers.
22. Spot 133 SX Class G cement w/2% CaCl @ 440' KB (Estimated top of cement plug at 17' KB). TOOH and LD 2-3/8" tbg.
23. RDMO Halliburton.
24. ND BOPs.
25. Cut surface casing off 5' below surface and weld plate on top w/marker.
26. Notify engineer when plugging operations are completed.

Proposed Perforation Intervals

Top	Btm	Zone	Comments

Engineer: CASEY DECKER

Foreman: STEVE WEAST

Lead Pumper: DOUG SITZMAN

Authorized By: Tom Price



KERR-MCGEE ROCKY MOUNTAIN CORP

Evans Office 4000 Burlington Avenue
Evans, CO 80620

Date: 1/25/2012

Authorization

PERMANENT

P&A

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Approved: _____ Date: _____ Area Engineer
Approved: _____ Date: _____ Engineering Supervisor