

KERR-MCGEE OIL AND GAS ONSHORE LP
HSR-W.C.L. 4-1
NW NW 1 3N 67W -- --
LAT: 40.25950 LONG: -104.84640
WELD,COLORADO
11/01/2013

AREA: N2 ROUTE: N21 Spud: 02/04/1995 WINS No.: 75515 AFE/WO#: 88301280 API#: 0512318854
GL: 4773 KB: 4783 MTD: 7416 TVD: 7416 LOG MD: 7408 PBMD: 7360 PBTVD: 7360
Directions: CR 38 AND CR 25, W 9/10, S 1/10, E INTO.

<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	16	8.63	23	J-55			10	712
PRODUCTION CASING									
	Casing	182	3.50	7.7	KS-70/80			10	7360
		1	3.50					7360	7362
	Casing	1	3.50	7.7	KS-70/80			7362	7399
	Casing Guide Shoe	1	3.50					7399	7400
PRODUCTION TUBING									
	Tubing	220	2.06	3.25	J-55			7	7230
	Seating Nipple	1	2.06					7230	7231
	Notched Collar	1	2.06					7231	7232

<u>CEMENT TYPE</u>	<u>Stage</u>	<u>Sacks</u>	<u>Cement Type</u>	<u>Top D</u>	<u>Btm D</u>	<u>cbj</u>	<u>est</u>	<u>Comments</u>
SURFACE CASING CEMENT								
	STAGE 1	501	NEAT	10	717	No	Yes	RETURNS
PRODUCTION CASING CEMENT								
	STAGE 1	200	85/15 POZ MIX	6518	7416	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		7035	7038	1	3	02/17/1995	PRODUCTION		Yes
CODELL		7260	7270	4	40	03/04/2000	PRODUCTION		Yes
CODELL		7261	7266	2	10	02/17/1995	PRODUCTION		Yes

Comments:

Proposed Completion Procedure

1. Level location for base beam equipped rig.
2. Call Foreman or Field Coordinator before rig up to catch plunger, isolate production equipment, and ask if replacement parts/equipment are requested. Operations need to hook up the Bradenhead pressure a bleed off the pressure before the rig gets on location.
3. Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
4. Spot a minimum of 10 jts of 2-1/16", 3.25#, J-55, EUE tbg for replacement and 160 jts 1-1/4", 2-33#/ft, J-55, 10rd IJ for annular cement job.
5. MIRU WO rig. Kill well, as necessary, with freshwater and biocide. ND wellhead. NU BOP.
6. MIRU slickline. Fish plunger if necessary and tag for PBTd. RDMO slickline.
7. PUH with tubing string to break any possible sand bridges, unseat landing joint and lay down. Do not exceed a tensile stress of 39,000 lbs.
8. MIRU "EMI". TOOH with 2-1/16" tubing. EMI tubing while TOOH. Lay down joints with wall loss or penetrations >35%. Replace joints as necessary. **Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS.
9. TIH with 2-1/16" tbg and 3.5" RBP and packer (3.5" csg 7.7#, KS-70/80). Set RBP @ +/-6655', (collars are at 6627+' and 6668'). Pressure test the RBP and casing to 2000 psi. spot 2 sx of sand on top of RBP and trip out of the hole with Packer.
10. ND BOP's. ND wellhead. Un-Jand 3 1/2" casing string, NU double entry flange.
11. PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 3-1/2" casing and open hole to 4602' (base of Sussex is 4402' and the top of Sussex is 4288'). Circulate with freshwater and biocide to clean up annulus while TIH.
12. Rig up cement trucks and pump 375 Bbl of drilling mud and then pump of 20 Bbls Sodium Metasilicate and then 250 sx 15.8 ppg neat Class G cement with 1/4 #/sx cello-flake. Retard the cement for 125 degree Fahrenheit for 6 hour pump time.
13. TOH with 40 joints to +3360' and reverse circulate 2 times the tubing volume drilling mud or until the cement cleans up.
14. Rig down cementing company.

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15. Trip out of the hole with tubing and shut in overnight.
16. Rig up wireline truck and run a CCL-GR-CBL-VDL from 4700' to 3000' or the top of cement. If cement isn't above 4088 then get with the Engineer on further cement work.
17. Trip in the hole with 1-1/4" 2.3 #/ft J-55 10rd IJ so the end of tubing is at 1000'.
18. Rig up cementing company and circulate with drilling mud.
19. Pump annular cement job balance plug consisting of 100 sx 15.8 PPG neat Class G cement with 1/4 #/sx cello-flake (attempt to cement from 1000 to 800 feet)
20. Trip out of the hole with 18 joints of tubing. Reverse circulate the tubing clean with drilling mud. Trip out of the hole laying down the remainder of the tubing.
21. Land 3-1/2" casing. ND double entry flange and crossover. NU wellhead. SDFN to WOC.
22. Shut the well in overnight.
23. MIRU wireline services.
24. PU and RIH with CCL-GR-CBL-VDL. Run from 1000' to surface, to verify cement coverage. Notify the Engineer of the top of cement. RDMO wireline.
25. Trip in the hole with 1-1/4" 2.3#/ft J-55 tubing. Trip out of the hole with the 1-1/4" tubing laying down the tubing. Make sure the tread protectors are put back on the tubing.
26. PU and TIH with 2-3/8" tbg and retrieving head. Circulate sand off RBP at @ +/-6655'. TOOH with RBP and standing back tubing.
27. Bail if sand tagged higher than 7270'.
28. TIH 2-1/16" NC, 2-1/16" SN, and 2-1/16" 3.25# J-55 tubing. Land tubing at +/- 7230' or 1 joint above the top Codell perforation (7260-7266).
29. Broach tubing to seating nipple. ND BOPs. NU wellhead. RDMO WO Rig.
30. Clean location and swab well back to production, if necessary. Notify Foreman/Field Coordinator of finished work and turn well over to production team.

Proposed Perforation Intervals

Top	Btm	Zone	Comments

Engineer: DANIEL NOTARY: 303-913-2592

Foreman: STACY LOUCKS: 970-685-1326

Lead Pumper: JERRELL MANNING: 970-301-1542

Authorized By: ROGER NORTHCUTT: 970-685-0587