

**KERR-MCGEE OIL AND GAS ONSHORE LP**  
**WARREN FARMS INC B 1**  
**NE NE 22 2N 66W -- --**  
**LAT: 40.12920      LONG: -104.75680**  
**WELD,COLORADO**

05/30/2013

AREA: S4      ROUTE: S42      Spud: 01/16/1971      WINS No.: 73681      AFE/WO#: 88375039      API#: 0512307239

GL: 5075    KB: 5085    MTD: 0    TVD: 0    LOG MD: 8130    PBMD: 8095    PBTVD: 8095

Directions:    WCR 20 & WCR 31, E 8/10, S 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>
<b>SURFACE CASING</b>									
	Casing	5	8.63	23.00	H-40			10	214
<b>PRODUCTION CASING</b>									
	Casing	3	4.50	11.60	K-55	STC		10	104
	Casing	30	4.50	10.50	K-55			104	1021
	Cement Stage Too	1	4.50					1021	1023
	Casing	199	4.50	10.50	K-55			1023	7273
	Casing	26	4.50	11.60	K-55	STC		7273	8095
	Casing Float Collar	1	4.50					8095	8097
	Casing	1	4.50	11.60	K-55	STC		8097	8128
	Casing Guide Shoe	1	4.50					8128	8129
<b>SAND PLUG</b>									
	Sand Screen	1	4.50					7800	8095
<b>PRODUCTION TUBING</b>									
	Tubing	243	2.38	4.70	J-55	8RO EUE		7504	7504

<u>CEMENT TYPE</u>	<u>Stage</u>	<u>Sacks</u>	<u>Cement Type</u>		<u>Top D</u>	<u>Btm D</u>	<u>chl</u>	<u>est</u>	<u>Comments</u>
<b>SURFACE CASING CEMENT</b>									
	PRIM CMT 1ST STAGE	200	LEAD	REGULAR	10	220	No	Yes	
<b>PRODUCTION CASING CEMENT</b>									
	PRIM CMT 2ND STAGE	225	LEAD	50/50 POZ-MIX	591	1021	Yes	No	
	PRIM CMT 1ST STAGE	200	LEAD	50/50 POZ-MIX	7294	8130	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>
CODELL		7530	7536	4	24	05/31/1995	PRODUCTION		Yes
CODELL		7530	7540	3	30	05/24/2010	PRODUCTION		Yes
CODELL		7536	7546	4	40	05/31/1995	PRODUCTION		Yes
J SAND		7993	8000	2	14	02/02/1971	PRODUCTION		Yes
J SAND		8010	8014	2	8	02/02/1971	PRODUCTION		Yes
J SAND		8020	8030	2	20	02/02/1971	PRODUCTION		Yes

**Comments:**      Well needs 5,000 psi rated wellhead, Remedial Cement above NB,  
 Pressure test to 1,000 psi, and RBP's installed  
 Associated well: APC GOBBLER 1-22HZ pad  
 Gyro ran: 8/20/2011  
 TOC: 7,320'; NB top: 7,242'  
 Shortest Distance: 415'  
 NPV: \$306M; No known casing or bradenhead issues, possible cement from 1021' to 591'  
 Extended Shut-in

**Proposed Completion Procedure**

1. Well has a GYRO: 8/20/2011
2. Call Foreman or Field Coordinator before rig up to isolate production equipment. Catch and remove plunger. Enter plunger into PLUNGER DATABASE. Call 24 hours prior to the rig moving onto location so that any automation equipment can be removed prior to the rig showing up. Install fence if needed. NOTE: Report surface casing pressure to engineer. If surface casing is not accessible at ground level, re-pipe so valve is at ground level.
3. Level location for base beam rig.
4. MIRU slickline service company. RIH to retrieve production equipment. RIH and tag for fill; last tagged depth was 7,788' (top of sand plug) on 6/4/2010. Note tagged depth in OpenWells. RDMO slickline service company.
5. Place cement services on "will call" when rig moves on location to rig up.

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6. MIRU Workover (WO) Rig. Control well with biocide treated water. Nipple Down (ND) Wellhead (WH) and Nipple Up (NU) Blow Out Preventer Equipment (BOPE). Unseat landing joint and lay down (LD).
7. MIRU EMI services. EMI 2-3/8" TBG on TOOH and tally while standing back. Lay down joints with wall loss or penetrations > 35%. Replace bad joints as necessary. Note joint number and depth of bad tubing and create Production Equipment Failure Report in OpenWells. RDMO EMI services.
8. MIRU E-Line service Company
9. PU and RIH with Gauge ring and junk basket combo for (4-1/2", 10.5/11.6#, K-55) CSG. Run Gauge ring to 7,400', POOH.
10. RIH w/ 10,000 psi rated from above and below CIBP (4-1/2", 10.5/11.6#, K-55) and set CIBP at 7,360' (Tie into Schlumberger Cement Bond Log w/ VDL-GR-CCL dated 31-May-1995). Pressure test CIBP and casing to 1,000 psi for 15 min. Note pass/fail in OpenWells.
11. PU & RIH with 3-1/8" guns and shoot squeeze holes at 7,310', then 6,840' (Tie into Schlumberger Cement Bond Log w/ VDL-GR-CCL dated 31-May-1995), using 3 SPF, 0.38" EHD, 33.65" penetration, 1' net, 6 total shots, 3 per perf depth. POOH with perf guns.
12. PU & RIH with CCL & CICR and set at 7,280'. RDMO E-Line service company. NOTE: CICR can be set on 2-3/8" TBG if desired.
13. MIRU Cementing Services. PU & RIH with CICR stinger on 2-3/8" TBG and sting into CICR at 7,280'.
14. Establish injection rate with water, keeping casing valve open for circulation. Once injection rate has been established, mix and pump 125 sks cement as follows: 36 bbl of cement (50/50 POZ "G" w/ 20% silica flour, 3% gel, 0.1% sodim metasilicate and 0.4% FL-52, Mixed at 13.5 ppf and 1.71 (yield) cuft/sk), displace with 28 bbl (leave approximately 1 bbl cement in tbg to be dumped on CICR while stinging out). Volumes calculated using 470' between 9" hole and 4-1/2" casing + 30% excess, with perfs @ 7,310', 6,840' and CICR @ 7,280'
15. Sting out of CICR and dump remaining cement on CICR.
16. TOOH to have EOT at 5,840' (1,000' above top perf holes). Reverse circulate down csg an up tbg using biocide treated water, 2x tubing capacity and have clean returns (approximately 45 bbl if EOT is at 5,840').
17. WOC minimum 36 hours; TOOH with tbg, standing back.
18. ND BOP, ND existing tbg head off of 4-1/2" csg and install new WHI 5,000 psi flanged tubing head complete w/ 5,000 psi rated casing valves. Install 7-1/16", 5,000 psi tubing head adaptor w new 5,000 psi master valve w/ 2-3/8" 8rd threaded connection. (DO NOT PRESSURE TEST TBG HEAD UNTIL AFTER CBL IS RUN)
19. ND tubing head adaptor and master valve, NU BOP
20. PU & TIH with 3-7/8" bit (rock, blade, etc.) and 2-3/8" TBG. Drill out CICR and cement to below perf holes at 7,310'. NOTE: IF CEMENT IS ABOVE PERF HOLES AT 6,840', TEST SEPERATLEY FROM PERF HOLES AT 7,310'.
21. Pressure test perf holes to 500 psi for 15 min.
22. MIRU E-Line service company.
23. PU and RIH w/ CCL-CBL-VDL tools and log from CIBP at 7,360' to surface. NOTE: TOC MUST BE ABOVE 6,842' (400' ABOVE TOP OF NIOBRARA FORMATION AT 7,242'). Possible cement from 591'-1021' needs to be logged. IF INSUFFICIENT CEMENT OR CEMENT IS NOT FOUND BETWEEN 591'-1021', CONTACT EVANS FOR NEW PROCEDURE.
24. POOH, RDMO E-Line service company.
25. Drill out CIBP at 7,360' and push to bottom if necessary, (TOP OF SAND PLUG IS AT ~7,800' DO NOT REMOVE THIS PLUG).
26. TOOH w/ 2-3/8" tbg and 3-7/8" bit, stand back tbg, LD bit
27. MIRU wireline service company.
28. PU and RIH with 10,000 psi rated from above and below (4-1/2", 10.5/11.6#, K-55) and set RBP @ 6,900' (Use CCL-CBL-VDL log from step 20 to correlate). Dump 2 sks sand on top of RBP.
29. Pressure test the RBP to 500psi for 15 minutes
30. PU and RIH with 10,000 psi rated from above and below (4-1/2", 10.5/11.6#, K-55) and set RBP @ 6,850' (Use CCL-CBL-VDL log from step 20 to correlate). Dump 2 sks sand on top of RBP.
31. POOH, RDMO wireline service company.
32. Pressure test the RBP to 500psi for 15 minutes
33. PU retrieving head on 2-3/8" TBG and TIH to 6,800' for kill string,
34. ND BOP, NU WH, make sure all valves on TBG head are rated to 5,000 psi (2 csg valves, and master valve).
35. RDMO WO Rig
36. Secure WH. Make sure safety prep sign is hung on WH.
37. END OF SAFETY PREP PROCEDURE, STEPS BELOW ARE FOR UNPREPPING WELL AFTER ALL COMPLETION ACTIVITIES ARE COMPLETE WITHIN 2000' AND NOTIFICATION IS SENT TO UN-PREP THE WELL.
38. Prep location for base beam equipped workover rig.
39. MIRU workover rig. Check well for pressure. Blow down pressure as needed.
40. ND WH, NU BOP.

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41. If kill string w/ retrieving head is not landed in well, PU retrieving head on 2-3/8" TBG.
42. TIH and circulate sand off of RBP, latch onto and release RBP @ 6,850'. TOOH and SB TBG, LD RBP and retrieving head.
43. PU RBP retrieving head and TIH on 2-3/8" TBG. Circulate sand off of RBP, latch onto and release RBP @ 6,900'. TOOH and SB TBG, LD RBP and retrieving head.
44. PU 2-3/8" NC, 2-3/8" XN profile, 2-3/8" TBG and TIH. Circulate well clean to top of sand plug across J-Sand @ ~7800' (DO NOT REMOVE THE SAND PLUG FROM ACROSS THE J-SAND)
45. PUH to land TBG at +/- 7,498', which is approximately 1 joint above the top CODELL perf.
46. ND BOP. NU producing wellhead.
47. RU rig lubricator. Broach TBG to SN. RD lubricator.
48. RDMO workover rig.
49. Turn well over to production team.

Proposed Perforation Intervals

Top	Btm	Zone	Comments

Engineer: LAURA WELLMAN

Foreman: LARRY GRUNEWALD: 970-590-6243

Lead Pumper: JESSE SPRADLIN: 970-301-1538

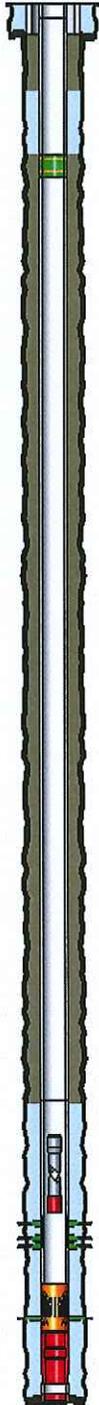
Authorized By: CORY EIKENBERG: 970-590-6234

KERR-MCGEE OIL AND GAS ONSHORE LP  
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HOLE SECTIONS		Size	Top	Btm	TD Date				
SURFACE		12.25	10	220	01/15/1971				
PRODUCTION		7.88	220	8130	01/17/1971				
TUBULARS		Tool Type	Joints	Size	Weight	Grade	Thread	Top D	Bottom D
SURFACE CASING		Casing	5	8.63	23.00	H-40		10	214
PRODUCTION CASING		Casing	3	4.50	11.60	K-55	STC	10	104
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SAND PLUG		Sand Screen	1	4.50				7800	8095
PRODUCTION TUBING		Tubing	243	2.38	4.70	J-55	8RD EUE	7504	7504
CEMENT JOBS		Stage	Sacks	Cement Jobs		Top D	Btm D	cbl	
SURFACE CASING		PRIM CMT 1ST STAGE	200	LEAD	REGULAR	10	220	No	
PRODUCTION CASING		PRIM CMT 2ND STAGI	225	LEAD	50/50 POZ-MIX	591	1021	Yes	
		PRIM CMT 1ST STAGE	200	LEAD	50/50 POZ-MIX	7294	8130	Yes	
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		CODELL		7530	7540	05/24/2010	PRODUCTION		
		CODELL		7536	7546	05/31/1995	PRODUCTION		
		J SAND		7993	8000	02/02/1971	PRODUCTION		
		J SAND		8010	8014	02/02/1971	PRODUCTION		
		J SAND		8020	8030	02/02/1971	PRODUCTION		

Comments: