| | 000 | HOBBS | | | | | |
|--|--|---|--------------------|----------------------|--|--------------|--|
| Form 3160-5 (August 2007) DE | UNITED STATES PARTMENT OF THE INTERIOR | HOBBS O | | (| FORM APPROVED DMB No. 1004-0137 Expires: July 31, 2010 | | |
| BUF | EAU OF LAND MANAGEMEN | r JUN 09 | 2011 5. | Lease Serial No. | 032592A LC-063965- | 5 | |
| | NOTICES AND REPORTS ON V | NELLS | | If Indian, Allottee | | · | |
| Do not use this abandoned well. | form for proposals to drill or t Use Form 3160-3 (APD) for su | o re-enter an Ich propositio | FED | | | | |
| 1. Type of Well | | 7. If Unit of CA/Agreement, Name and/or No. Cooper Jal Unit- NM 70926X | | | | | |
| Oil Well Gas V | Well Dther | | 8. | Well Name and No |). Cooper Jal Unit #141 | 7 | |
| 2. Name of Operator | Resaca Operating Company | | 9. | API Well No. | 30-025-11292 | | |
| 3a. Address | | o. (include area code) | 10 |). Field and Pool or | | / | |
| 2509 Maurice Road, Odessa, TX 79763 | (432) 580-85 | 500 | | Jalm | at; Tansill-Yates-7Rivers | r | |
| 4. Location of Well <i>(Footage, Sec., T.,</i> Unit D, 330' FNL, 330' FWL, Sec. 30, T-24S, R | | | ∈ 11 | . Country or Parish | , State Lea County, NM | | |
| 12. CHE0 | CK THE APPROPRIATE BOX(ES) TO INI | DICATE NATURE OF N | NOTICE, | REPORT OR OTH | IER DATA | | |
| TYPE OF SUBMISSION | | TYPE OF | F ACTIO | N | | | |
| Notice of Intent | Acidize Dee | | | on (Start/Resume) | Water Shut-Off | | |
| V Nonce of Intern | | ture Treat | Reclama | | Well Integrity | | |
| Subsequent Report | | Construction | Recomp | lete | Other Clean Out 8 | add | |
| Final Abandonment Notice | | and Abandon | Tempora Water D | arily Abandon | perforations | | |
| ······ | peration: Clearly state all pertinent details, i | | - | · | | | |
| 2.) Clean out to CIBP @ 3370'. 3.) Perforate Yates f/ 3064'-3200' (2 4.) RU Service Company & prep to 5.) Foam Sand Frac Perfs f/ 2980'-3 MMCF Nitrogen, diverting w/ 130 Ba 6.) RD Service Company. Install adj pressure depletes. | ound Steel Pit; NU BOP; POOH w/ rods JHPF, 43', 86 holes) and 7 Rivers f/ 32 fracture stimulate well down 4 ½" work s 334' w/ approximately 105,000#'s 16/30 all Sealers. ustable choke manifold w/ pressure gau lay down packer; clean out frac sand do ods. | 06'-3334' (2 JHPF, 46 tring.) Brady Brown Sand & ge. Flow back well & d | 105,000 |)#'s 16/30 resin co | | | |
| | | SEE ATTA | CHE | ED FOR | | | |
| | | CONDITIC | DNS (| OF APPR | OVAL. | | |
| | | | | | - T = 0.0007 | | |
| 14. I hereby certify that the foregoing is tr | ue and correct Name (Printed/Typed) | | | | · | <u> </u> | |
| | | | | | | | |
| Melanie | Reyes | Title Engineer Assis | stant | ····· | | <u></u> | |
| Signature | V_ | Date 04/06/2011 | | | DOVED | | |
| | | <u> </u> | | | PPROVED | | |
| | THIS SPACE FOR FEDE | RALORSIATE | | EUSE | | | |
| Approved by | | Title | \langle | | JUN 2 2011 Date | | |
| that the applicant holds legal or equitable ti entitle the applicant to conduct operations t | ····· | ould Office L | | PE | VESLEY W. INGRAM | R | |
| fictitious or fraudulent statements or repres | J.S.C. Section 1212, make it a crime for any per- sentations as to any matter within its jurisdiction | erson knowingly and willf n | ully to ma | ike to any departmen | t or agency of the United State | s any false, | |
| (Instructions on page 2) | | Territorio de las manentes en | | | | <u> </u> | |
| | | | | | 5 | | |
| | | | | | | | |

| | | | | | | 1. | | 4.4.4 |
|---|--|---|---|--|--|---|---|--|
| CURRENT COMPLETION SCHEMATIC | | Λ -4 | Cooper Jal Unit | | | | VELL NO | 141 |
| | LOCATION: | Active | 330 FWL, Sec 30, T - 245 | Oil R - 37F: Lee County | New Mavi | | PI# | 30-025-112 |
| | SPUD DATE: | 330 FNL 8 | TD | 3535 | KB · | 3,292' | DF | |
| | INT. COMP. DAT | E: 09/09 | /55 PBTD | 3335 | GL | 3,279 | | |
| | | ELECTRIC LOGS: | | GEOLOGICAL DAT | A | CORES D | ST'S or MU | DLOGS [.] |
| Surface Csg | | LLCOTRIO LOGO. | | | | 001120,2 | | <u> </u> |
| Hole Size: 11 in | | ce - 3535' (9-6-55 Lan | | | | | | |
| Csg. Size: 8 5/8 in Set @: 1140 ft | | vey (9-1-55 Halliburtor 00 - 3425' (10-5-93 Ha | | | | | | |
| Sxs Cmt: 700 | GIV-COL NOIT 200 | 00-3420 (10-3-33 112 | | BON BEARING ZONE | DEPTH T | OPS: | | |
| Circ: Yes | | | | | | | | |
| TOC @: surf | Ya | ites @ 2977' | 7-Rivers @ 3210' | Queen @ 3560' | | | | |
| TOC by: circ | | | | | | | | |
| | | | | | | | | |
| | | | | CASING PROFILE | | | | |
| | | | @ 1140' Cmt'd w/700 : | | | | | |
| | | | @ 3410' Cmt'd w/400 | sxs - TOC @ 2240' | from sur | face by Temp. S | urvey. | |
| | LINER No | one | CUP | | ON DAT | | | |
| | CSG. PERFS: | | | RENT PERFORATION | | OPEN HOLE | | 3410 - 3535' |
| | 4-Oct-93 Pe | erf'd Yates (Jalmat |) f/ 2980 - 91', 2994 - 9 | 9', 3004 - 11', 3016 | - 38', 304 | | | w CIBP®@ 33 |
| | 30 | 90'-3100', 3112 - 3 | 6', 3141 - 46' w/ 2 spf (| 202 holes total - 0.5 | i6 dia.,.1: | 20 deg phasing) | | |
| | TUBING DETA | <u>VIL</u> 7/28/200 |)9 | ROD DETAIL | | 10/30/2010 | | |
| | Length (ft) | Detail | | Length (ft) | | Detail | | |
| | 2830 | | #, J-55, 8rd EUE tbg. | 20 | 1 | 26' x 1/1/4" po | hish rod w/ | 7/8" pin |
| | 3 | | 7/8" TAC | 0 | 1 | 1 1/4" x 1 1/2" | | |
| | 298 | | #, J-55, 8rd EUE tbg. | 2 | 1 | 2' - 1" Pony R | | |
| | 31 | | 1/2" Blast Joint | 975 | 39 | 1" D steel rod | | |
| | 4 | 1 2 7/8" pe | rf Sub | 1450 | 58 | 7/8" D steel ro | ods | |
| | 1 | 1 2 7/8" SN | | 500 | 20 | 1 1/2" sinker t | bars | |
| | 31 | 1 31/2"Mu | id Anchor | 20 | 1 | 2 1/2" x 1 1/2" | X 20' RHI | 3C pump |
| | 3198 | | | 0 | 1 | 1 1/4" x 8' gas | anchor | |
| | | | | 2967 | | | | |
| | @ 2240' | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | By TS WELL HISTORY SI | UMMARY | | | | | | |
| | 9-Sep-55 IC: | : 3410 - 3535' (7 R) | /RS/Queen OH). Acd: | d with 500 gals mu | d acid. F | rac'd with 4,000 | oals lease | oil with 10.000 |
| | | | d, & 133.5 Mcfgpd (flo | - | | | • | |
| | 18-Aug-71 CC | ONVERTED WELL | TO INJECTION: C/O t | o TD @ 3535. Ran 2 | 2 3/8" CL | tubing & PKR. S | Set PKR @ | 3370. Initiate |
| | | | g. Return to injection. | | | | | |
| | | eplaced 1 joint tubin | g. Return to injection. | | | | | |
| | | | | E0/ with 20/ mutual | a chuant i | | | |
| | 6-Feb-93 C/0 | O fill 3416 - 3535'. A | | 5% with 3% mutual of CIBP_PBTD @ 3 | | | | |
| | 6-Feb-93 C/0 4-Oct-93 Se | O fill 3416 - 3535'. A t CIBP @ 3370'. Di | ump 35' cement on top perfs with 41,000 glas 3 | of CIBP. PBTD @ 3 | 335'. Pe | rf'd Yates (Jaim | at) f/ 2980 | -3146' (10 in |
| | 6-Feb-93 C/0 4-Oct-93 Se spi | O fill 3416 - 3535'. A t CIBP @ 3370'. Di f, 202 holes). Frac p | ump 35' cement on top | of CIBP. PBTD @ 3 0# X-L gel carrying | 3335'. Pe 183,600 | rf'd Yates (Jaim #'s 12/20 sand a | nat) f/ 2980 nd 40,580# | -3146' (10 in 's resin coate |
| Yates | 6-Feb-93 C/(4-Oct-93 Se spi s@ 2977' put | O fill 3416 - 3535'. A the CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bop | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I | 3335'. Pe 183,600 n=1066 | rf'd Yates (Jaim #'s 12/20 sand a | nat) f/ 2980 nd 40,580# | -3146' (10 in 's resin coate |
| | 6-Feb-93 C/(4-Oct-93 Se spi s@ 2977' 17-Feb-95 Re | O fill 3416 - 3535', A t CIBP @ 3370' , Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC uplaced 1 bad jt tbg. | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISI PP. After WO: 46 bop Returned well to prod | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. | 3335'. Pe 183,600 n=1066 | rf'd Yates (Jaim #'s 12/20 sand a | nat) f/ 2980 nd 40,580# | -3146' (10 in 's resin coate |
| Yate: | 6-Feb-93 C/(4-Oct-93 Se sp s@ 2977 put 2-91' 9-Oct-95 Ch | O fill 3416 - 3535', A t CIBP @ 3370' , Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. nange out pmp. Ref | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISI P. After WO: 46 bop Returned well to productio urned well to productio | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. | 3335'. Pe 183,600 n=1066 Ncfgpd. | rf'd Yates (Jalm ∜s 12/20 sand a psig. Cleaned ou | nat) f/ 2980 nd 40,580# t. sand f/ 3 | -3146' (10 in 's resin coate 180'-3335'. In |
| 2980 | 6-Feb-93 C/(4-Oct-93 Se s@ 2977' -91' 9-Oct-95 Ch 7-Oct-97 Ra | O fill 3416 - 3535'. A tt CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. lange out pmp. Rel in tubing inspection. | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopt Returned well to prod urned well to productio Replaced 22 joints of | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. tubing. Ran new ga | 3335'. Pe 183,600 n=1066 Ncfgpd. | rf'd Yates (Jalm ∜s 12/20 sand a psig. Cleaned ou | nat) f/ 2980 nd 40,580# t. sand f/ 3 | -3146' (10 in 's resin coate 180'-3335'. In |
| | 6-Feb-93 C/(4-Oct-93 Se s@ 2977 -91 9-Oct-95 Re 7-91 9-Oct-95 Re 7-Oct-97 Ra -99 14-Oct-99 Re | O fill 3416 - 3535'. A the CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. ange out pmp. Ref in tubing inspection. placed 1 bad joint t | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISI P. After WO: 46 bop Returned well to productio urned well to productio | of CIBP. PBTD @ 3 0# X-L gel carrying 2+1380 psig, P15mi I, 422 bwpd, & 16 f uction. n. tubing. Ran new ga p production. | 3335'. Pe 183,600 n=1066 Ncfgpd. | rf'd Yates (Jalm ∜s 12/20 sand a psig. Cleaned ou | nat) f/ 2980 nd 40,580# t. sand f/ 3 | -3146' (10 in 's resin coate 180'-3335'. In |
| 2980 | 6-Feb-93 C/(4-Oct-93 Se sp 2977 put 17-Feb-95 Re -91' 9-Oct-95 Ch 7-Oct-97 Ra 14-Oct-99 Re 27-Mar-00 Ch 27-Mar-00 Ch | O fill 3416 - 3535', A t CIBP @ 3370', Di f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. ange out pmp. Ref in tubing inspection. placed 1 bad joint t ange out pmp. Ref DOH with rods and p | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISI PP. After WO: 46 bop Returned well to productio Replaced 22 joints of ubing. Returned well to urned well to productio pump. Tagged at 3282' | of CIBP. PBTD @ 3 0# X-L gel carrying 2+1380 psig, P15mi I, 422 bwpd, & 16 f uction. n. tubing. Ran new ga production. n. | 3335'. Pe 183,600 n=1066 Mcfgpd. Is anchoi | rfd Yates (Jahr #s 12/20 sand a psig. Cleaned ou and pump on rc | nat) f/ 2980 nd 40,580# t sand f/ 3 ods. Placed | -3146' (10 in ''s resin coate 180'-3335'. In 1 well on prod |
| 2980 = 2994 = 2994 | 6-Feb-93 C/(4-Oct-93 Se sp sa s@ 2977' -91' 17-Feb-95 Re 9-Oct-95 Ch 7-Oct-97 Ra 14-Oct-99 Re 27-Mar-00 Ch 27-Feb-04 PO SN | O fill 3416 - 3535', A t CIBP @ 3370', Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. lange out pmp. Ref n tubing inspection. placed 1 bad joint t ange out pmp. Ref DOH with rods and f I.RIH with pump and | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII P. After WO: 46 bopd Returned well to productio Replaced 22 joints of ubing. Returned well to urned well to productio oump. Tagged at 3282' d rods. PWOP. | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. ubling. Ran new ga production. n. POOH with tubing. | 3335'. Pe 183,600 n=1066 Icfgpd. Is anchor Hydrote | rfd Yates (Jaim ≇s 12/20 sand a osig. Cleaned ou and pump on rc st tubing to 7000 | nat) f/ 2980 nd 40,580# t. sand f/ 3 ods. Placed psig - four | -3146' (10 in "s resin coate 180'-3335'. In I well on prod d hole 3 joint |
| | 6-Feb-93 C/(4-Oct-93 Se sp sa s@ 2977 put 17-Feb-95 Re 9-Oct-95 Ch 7-Oct-97 Ra 2-99 14-Oct-99 Re 27-Mar-00 Ch -11' 27-Feb-04 PC SN -38' 17-Aug-06 PO | O fill 3416 - 3535'. A t CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jit tbg, ange out pmp. Rel n tubing inspection placed 1 bad joint t ange out pmp. Rel OCH with rods and p J.RIH with pump ano OCH w/ rods, pump | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopt Returned well to productio Replaced 22 joints of ubing. Returned well to urined well to productio pump. Tagged at 3282' d rods. PWOP. and tubing - found hole | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. tubing. Ran new ga production. n. POOH with tubing. | 3335'. Pe 183,600 n=1066 Mcfgpd. Is anchol Hydrote: Laid dov | rfd Yates (Jaim #s 12/20 sand a osig. Cleaned ou and pump on ro st tubing to 7000 vn 5 joints due to | at) f/ 2980 nd 40,580# t sand f/ 3 ods. Placed psig - four p pitting. Hy | -3146' (10 in 's resin coate 180-3335'. In I well on prod Id hole 3 joint: drotest tubing |
| 2990' = 2994 = 2994 = 3004' = 3004' | 6-Feb-93 C/(4-Oct-93 Se sp s@ 2977 -911 9-Oct-95 Ch 7-Oct-97 Ra -991 14-Oct-99 Re 27-Mar-00 Ch 27-Feb-04 PO SN -38' 17-Aug-06 PO psi | O fill 3416 - 3535'. A t CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad it tbg lange out pmp. Ret placed 1 bad joint t lange out pmp. Ret OOH with rods and p I.RIH with pump and OOH w/ rods, pump g in hole - burst 92r | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopd Returned well to productio Replaced 22 joints of ubing. Returned well to productio pump. Tagged at 3282' d rods. PWOP. and tubing - found hole ind joint. Replaced 52 - | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. tubing. Ran new ga production. n. POOH with tubing. on joint above SN. 7/8" and 6 - 1" rod b | 3335'. Pe 183,600 n=1066 Mcfgpd. Is anchor Hydrote: Laid dov ioxes. Lo | rfd Yates (Jaim #s 12/20 sand a psig. Cleaned ou and pump on ro st tubing to 7000 vn 5 joints due to ad and test pum | at) f/ 2980 nd 40,580# t sand f/ 3 ods. Placed psig - four pitting. Hy p to 500 ps | -3146' (10 in 's resin coate 180-3335'. In d well on prod d hole 3 joint drotest tubing ig. PWOP. |
| 2980 22994 3004 3016 3042 | 6-Feb-93 C// 4-Oct-93 Se spl sa s@ 2977 17-Feb-95 Re 9-Oct-95 Ch 7-Oct-97 Ra 14-Oct-99 Re 27-Mar-00 Ch 27-Mar-00 Ch SN -38' 17-Aug-06 PO poi s19-UI-07 PO 20-Oct-08 PO | O fill 3416 - 3535'. A tr CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg. lange out pmp. Ref DOH with rods and p L.RIH with pump and DOH wi rods, pump ig in hole - burst 92. | ump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopt Returned well to productio Replaced 22 joints of ubing. Returned well to urined well to productio pump. Tagged at 3282' d rods. PWOP. and tubing - found hole | of CIBP. PBTD @ 3 0# X-L gel carrying 2+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. tubing. Ran new ga production. n. POOH with tubing. con joint above SN. 7/8" and 6 - 1" rod b to 7000# in hole - fi | 3335'. Pe 183,600 n=1066 Mcfgpd. Is anchol Hydrote: Laid dow oxes. Lo ound hol | rfd Yates (Jahr #s 12/20 sand a psig. Cleaned ou and pump on ro st tubing to 7000 vn 5 joints due to ad and test pum e on 96th joint. F | at) f/ 2980 nd 40,580# t sand f/ 3 ods. Placed psig - four p pitting. Hy p to 500 ps RH w/ tbg, | -3146' (10 in "s resin coate 180-3335'. In d well on prod d hole 3 joint: drotest tubing ig. PWOP. oump & rods. |
| 2990' = 2994 = 2994 = 3004' = 3004' | 6-Feb-93 C// 4-Oct-93 Se spl sa (@ 2977' -91' -91' -91' -91' -91' -91' -91' -91 | O fill 3416 - 3535'. A t CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC uplaced 1 bad jt tbg. ange out pmp. Ref n tubing inspection. uplaced 1 bad joint t ange out pmp. Ref DOH with rods and p LRIH with pump and DOH wir rods, pump g in hole - burst 92r DOH wir rods, pump DOH with rods and s | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopd Returned well to productio Replaced 22 joints of ubing. Returned well to urned well to productio oump. Tagged at 3282' d rods. PWOP. and tubing - found hole id joint. Replaced 52 - & tbg. Hydrotest tubing & tbg (laid 3 jts w/sever tuck pump in tubing. H | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. production. n. POOH with tubing. on joint above SN. 7/8" and 6 - 1" rod b to 7000# in hole - fe e pitting). Hydrotest ydrotest tubing to 70 | 3335'. Pe 183,600 n=1066 Vicfgpd. Is anchor Hydrote: Laid dow Joxes. Lo Joxes. Lo Joxes. Lo Joxes. Rill | rfd Yates (Jaim #s 12/20 sand a osig. Cleaned ou and pump on rc st tubing to 7000 vn 5 joints due to ad and test pum e on 96th joint. F 00# in hole - bun H with pump and | hat) f/ 2980 nd 40,580# t. sand f/ 3 pods. Placed psig - four pitting. Hy p to 500 ps RIH w/ tbg, rst 2 jts. RII rods. | -3146' (10 in 's resin coate 180'-3335'. In d well on prod d hole 3 joint: drotest tubing sig. PWOP. pump & rods. H witbg. PWC |
| 2980 = 2994 = 3004 = 3042 = 3042 = 3058 | 6-Feb-93 C// 4-Oct-93 Se spi 3 @ 2977 - 9-Oct-95 Re 9-Oct-95 Ch 7-Oct-97 Ra 27-Mar-00 Ch -11' 27-Feb-04 PC 53' 17-Aug-06 PC psi -52' 19-Jul-07 PC 20-Oct-08 PC 20-Oct-08 PC 24-Nov-08 PC 24-Nov-08 PC 27-Jul-09 PC | O fill 3416 - 3535'. A t CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad jt tbg, ange out pmp. Ref n tubing inspection. placed 1 bad joint t ange out pmp. Ref DOH with rods and p J.RIH with pump an DOH with rods, pump g in hole - burst 92r DOH with rods, pump OOH w/rods, pump OOH w/rods, pump OOH w/rods, pump OOH w/rods, pump OOH w/rods, pump | Jump 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopt Returned well to productio Replaced 22 joints of ubing. Returned well to urned well to productio pump. Tagged at 3282' d rods. PWOP. and tubing - found hole id joint. Replaced 52 - & tog. Hydrotest tubing & tbg (laid 3 jts w/sever tuck pump in tubing. H & tbg. RIH w/Tag Bar - | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. production. n. POOH with tubing. POOH with tubing. 7/8" and 6 - 1" rod b to 7000# in hole - f e pitting). Hydrotest ydrotest tubing to 7' tagged at 3,220'. F | 3335'. Pe 183,600 n=1066 Vicfgpd. Is anchor Hydrote: Laid dow ioxes. Lo oound hol tog to 70 000#. Ril RIH w/Pre | rfd Yates (Jaim #s 12/20 sand a osig. Cleaned ou and pump on ro st tubing to 7000 vn 5 joints due to ad and test pum e on 96th joint. F 000# in hole - bui with pump and sssure Tool, ran | at) f/ 2980 nd 40,580# t. sand f/ 3 ods. Placed psig - four pitting. Hy p to 500 ps tIH w/ tbg, rst 2 jts. RII rods. pressure (| -3146' (10 in 's resin coate 180'-3335'. In d well on prod d hole 3 joint: drotest tubing ig. PWOP. pump & rods. H witbg. PWC gradient ever |
| 2980 22994 3004 3016 3042 | 6-Feb-93 C// 4-Oct-93 Se spi sa portion 2277 2977 2997 2997 2907 2907 2907 2007 20 | O fill 3416 - 3535'. A t CIBP @ 3370'. Du f, 202 holes). Frac p nd. AIR= 34.5 bpm. mp, and rods. PWC placed 1 bad joint t ange out pmp. Ref n tubing inspection placed 1 bad joint t ange out pmp. Ref DOH with rods and p I.RIH with rods and p I.RIH with pump an DOH w/ rods, pump g in hole - burst 92r DOH w/ rods, pump OOH w/ rods, pump a DOH w/ rods, pump a DOH w/ rods, pump assure @ 3000' = 4 | Imp 35' cement on top perfs with 41,000 glas 3 Pmax= 1923 psig. ISII PP. After WO: 46 bopt Returned well to productio Replaced 22 joints of ubing. Returned well to grods. PWOP. and tubing - found hole ind joint. Replaced 52 - & tbg. Hydrotest tubing k tbg. (laid 3 jts w/sever tuck pump in tubing. H & tbg. RIH w/Tag Bar- 104 psig. Hydrotest tubing | of CIBP. PBTD @ 3 0# X-L gel carrying P+1380 psig, P15mi I, 422 bwpd, & 16 I uction. n. tubing. Ran new ga production. n. POOH with tubing. on joint above SN. 7/8" and 6 - 1" rod b to 7000# in hole - f e pitting). Hydrotest ydrotest tubing to 70 tagged at 3,220. F ing to 7000# in hole | 3335'. Pe 183,600 n=1066 j Mcfgpd. Is anchol Hydrote: Laid dow loxes. Lo ound hol tbg to 70 000#. Ril NH w/Prc - test go | rfd Yates (Jaim #s 12/20 sand a osig. Cleaned ou and pump on ro st tubing to 7000 vn 5 joints due to ad and test pum e on 96th joint. F p00# in hole - bui with pump and ossure Tool, ran wod. RIH with tubi | at) f/ 2980 nd 40,580# t. sand f/ 3 ods. Placed psig - four pitting. Hy p to 500 ps tIH w/ tbg, rst 2 jts. RII rods. pressure (| -3146' (10 in 's resin coate 180'-3335'. In d well on prod d hole 3 joint: drotest tubing ig. PWOP. pump & rods. H witbg. PWC gradient ever |
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Cooper Jal Unit 141 30-025-11292 Resaca Operating Company June 2, 2011 Conditions of Approval

NOTE: IN FUTURE, OPERATOR TO INCLUDE BEFORE/AFTER DIAGRAMS.

- 1. Surface disturbance beyond the originally approved pad must have prior approval.
- 2. Closed loop system required.
- 3. Operator to have H2S monitoring equipment on location.
- 4. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above precharge. The pre-charge test shall follow requirements in Onshore Order #2.
- 5. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 6. Operator to submit subsequent sundry with well test results when work is complete. Include final well bore schematic.
- 7. Work to be completed by December 31, 2011.

WWI 060211