In Lieu of Form 3160 (June 1990
Do not use

UNITED STATES

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DEPARTMENT OF INTERIOR (June 1990) BUREAU OF LAND MANAGEMENT MAY 2 6 2009 SUNDRY NOTICE AND REPORTS ON WELLS!! Of Land Management Do not use this form for proposals to drill or to deepen or reentry to a different reservoir nuseria APPLICATION TO DRILL" for permit for such proposals		Budget Bureau No. 1004-0135 Expires: March 31, 1993		
		1	Lease Designation and Scrial No. NMSF-078764	
		6.	If Indian, Allottee or Tribe Name	
SUBMIT IN TRIPLICATE			If Unit or CA, Agreement Designation Rosa Unit	
Type of Well Oil Well Gas Well X Other		l	Well Name and No. Rosa Unit [#] 166B	
Name of Operator WILLIAMS PRODUCTION COMPANY			API Well No 30-039-29841	
3. Address and Telephone No PO Box 640 Aztec, NM 87410-0640			Field and Pool, or Exploratory Area BASIN MANCOS	
4. Location of Well (Footage, Sec., T , R., M., or 2305' FNL & 2305' FEL Sec	Survey Description) 30, T31N, R5W NMPM		County or Parish, State Rio Arrība, New Mexico	
CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTI	HER DATA	
TYPE OF SUBMISSION	TYPEO	OF ACTION		
Notice of Intent Z X Subsequent Report Final Abandonment	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Additional Mancos Completion	N V C (N or	Change of Plans New Construction Non-Routine Fracturing Vater Shut-Off Conversion to Injection Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form)	
13. Describe Proposed or Completed Operations (C directionally drilled, give subsurface locations at the complete of the control of the complete of the control of the cont	learly state all pertinent details, and give pertinent dates, inc and measured and true vertical depths for all markers and z boards, spot in rig ramp, spot rig on ramp, RU over v	zones pertinen	nt to this work)*	
O4-25-2009 Recap: SU rig & equip, SICP = 500 psi, SITP = 380 pabove F-nipple is full of sand, tbg appears to be in go @ 6900', perf_Mancos (6695'- 6855') bottom up, 3 SF crew, while rigging down WL we found approx 20' sec	ood condition. ND stripper head & NU WL pack off & PF w/ 3 3/8" SFG, .34" Dia, 21" Pen & 10 Grm Chgs,	PU lubricate	or, RU WL crew, WL set 5.5" 10K CBP 39 total holes, all shots fired RD WL	
04-26-2009 Recap: SU rig & equip, change out damaged drl line	w/ new line, swap out pipe rams w/ 3.5'' rams, MU Ha UE tbg, set packer @ 6269', 20' above top perf, PU t	alliburton 5.5 ools & SIWF	RCVD MAY 29 '09 5" full bore packer, 2 Jts 2 7/8" N-80 tbg, FN. OIL CONS. DIV.	

Larry Higgins

(This space for Federal or State office use) **HAZEVILLIVIM METARD** MAY 2 7 2009 Approved by___ Title FARMINGTON FIELD CARKE Conditions of approval, if any

Title 18 U S C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Rosa Unit #166B - Page 2

04-27-2009

Recap: SU rig & equip, tally, rabbit & TIH w/ 9 jts 3 5" L-80 tbg (209 total jts). Load hole w/ 120 bbls 2% KCL fluid, strip stripper head off of well, install Antelopes Isolation tool, set packer @ 6545' & NU to top of 5K BOP's. RU Halliburton Serv to frac Y on top of tbg, load hole w/ 36 bbls 2% KCL, BD Mancos (6695' - 6855') @ 2906 psi, run DFIT test thru 3.5" tbg, ISIP = 1792 psi. RD Halliburton & PU tools & leave well open to data trap, will remove data trap Wednesday & frac well Thursday (4/30/09).

04-30-2009

Recap. SU rig & equip, psi test lines @ 8000 psi. Load hole & BD Mancos (6695' - 6855') @ 2900 psi, pump 2000 gals 15% HCL acid & 2000 gals CL gel & 5100 lbs 100 mesh BASF @ .5 ppg @ 15 bpm, increase rate 5 bpm & monitor pressures, work rate to 33 bpm & frac well w/ 99900 lbs 40/70 BASF @ .75 ppg, cut sand short due to increase pressure in csg & decreasing pressure in tbg, (possible communication around packer) MIR = 38 bpm, AIR = 25.7 bpm, MTP = 6561 psi, ATP = 4875 psi, all prop carried in slick wtr, total fluid to recover = 3621 bbls, ISIP = 2281 psi, 5 min SI = 1998 psi, 10 min = 1825 psi, 15 min = 1796 psi. RD Halliburton Serv, finish RU to frac Y for FB, open well to FB tank @ 900 psi & monitor pressure & wtr Flow well to FB tank on 8/64" choke & monitor pressures, @ 20:00 hrs Psi = 100 psi, swap to 32/64" choke & well logged off, swap to 64/64" choke @ 21:00 hrs & well is flowing light wtr, see FB report for details.

05-01-2009

Recap: Open well wide open to FB tank, ck to see if well will flow on its own. SU rig, well is still logged off, contact engineer & discuss next step. Call Halliburton tools, blow down csg & RD FB lines, take off all but four studs on Antelope tbg isolation tool, WO Halliburton tool hand, ND Antelope isolation tool, install 4' x 3.5" pup jt, work tbg & packer, packer came free. Strip mud cross & stripper head on & NU to top of BOP's, LD 3 jts 3.5" tbg, TOOH 10 stds tbg, change over to 2 lines, finish TOOH w/ 3.5" tbg & stand in derrick, LD 2 jts 2 7/8" tbg & packer & inspect for any failure, did not see any leak by on tbg or packer. LO tools, MU 4 3/4" bit, BS & tally, rabbit & TIH w/ 100 jts 2 7/8" tbg, set bit @ 3200', RU Kelly hose to tbg. Break circ w/ air only @ 1500 psi, unload wtr to FB tank on 64/64" choke, turn over to FB crew, record FB data. Unload wtr off well, @ 20:00, well as not making any wtr, SD air & let wtr come into WB, @ 0:00 start up air & unload wtr, see FB report for details.

05-02-2009

Recap: Flow well to FB tank & unload wtr w/ air. SU rig & air equip, SD air, tally, rabbit & TIH w/ 90 jts tbg (190 total jts) set bit @ 6101'. Break circ w/ air only @ 1500 psi, unload wtr off well, turn over to FB crew. Unload wtr off well, when wtr flow is below 4 bph we SD air pkg & let wtr enter WB for a couple of hrs & then unload w/ air, for details see FB report.

05-03-2009

Recap: Unload wtr off well to FB tank w/ air & record FB data. SU rig & equip, SD air unit, tally, rabbit & TIH w/ 20 jts tbg (210 total jts) & tag fill @ 6740'. RU PS, break circ w/ 10 bph a/s mist, CO 160' fill to 5.5" CBP @ 6900', rets = light gas & wtr & hvy sand, run two 3 bbl sweeps on each con, circ clean & blow WB dry. LD 1 jt tbg on float, RD 2.5" PS, TOOH w/ 9 stds tbg & set bit @ 6298', turn over to FB crew. Unload wtr off well w/ air until wtr returns drop below 5 bph, SD air & let wtr into WB.

05-04-2009

Recap: Unload wtr off well w/ air to FB tank, when rets are below 5 bpm we SD well & flare for 4 hrs (approx 5' flare) & then unload w/ air & record FB data. SU rig equip, TIH w/ 9 stds tbg, RD 2.5" PS & PU 1 jt tbg & tag fill @ 6870', break circ w/ 10 bph a/s mist & CO 20' of fill to 6900', run 3 bbl sweeps every 30 min. LD 1 jt tbg, RD 2.5" PS, TOOH w/ 9 stds tbg, set bit @ 6298', turn over to FB crew. Unload wtr off well w/ air to FB tank, when rets are below 5 bpm we SD well & flare for 4 hrs (approx 5' flare) & then unload w/ air & record FB data

05-05-2009

Recap: Unload wtr off well w/ air, record FB data. SU rig & equip, TIH w/ 9 stds tbg & tag fill @ 6890'. Break circ w/ air only & CO to 6900', run 3 sweeps & circ well clean. TOOH w/ 9 stds tbg, flare well & turn over to FB crew. Unload wtr off well w/ air, record FB data, for details see FB report.

05-06-2009

Recap: Unload wtr off well & flare well when wtr rets are low, approx 8' flare. SU rig & equip, SD air, TIH w/ 9 stds tbg, RU 2.5" PS & PU 1 jt tbg & tag fill @ 6880'. Break circ w/ air/soap mist, CO fill to 6900', run two 3 bbl sweeps & circ well clean, blow well dry. TOOH w/ 9 stds tbg, turn over to FB crew Unload wtr off well & flare well when wtr rets are low, approx 8' flare, for details see FB report.

05-07-2009

Recap: SU rig, TIH w/ 9 stds tbg, PU 1 jt & tag fill @ 6890'. TOOH w/ 214' 2 7/8" tbg 4 3/4" bit, bit sub & LD on float. ND stripper head & NU WL pack off. RU BWWC, RIH w/ Halliburton 5 5" 10K CBP & tag something @ 3760' could not get down, POOH w/ plug, contact engineer & discuss problem, RIH w/ gauge ring, junk basket & run to 6900', POOH, pump 20 bbls down csg & trickle wtr in, RIH w/ CBP & tag @ 5566', plug is hung up & can not go up or down, set plug @ 5566' instead of pulling out of rope socket, (picking up tbg & LD tbg on float due to 3.5" tbg in derrick). POOH w/ WL, RD WL, ND pack off & NU stripper head. MU 4 3/4" Hurricane mill, BS & tally & PU 160 jts 2 7/8" tbg off float set mill @ 5125', PU tools & SIWFN.

<u>05-08-2009</u>

Recap: SU rig & air equip, try to unload wtr off well w/ air only, could not break circ & popped off @ 2000 psi, (5100'), TOOH w/ 15 stds tbg & set mill @ 4140', still could not break circ, LD 30 jts tbg on float & set mill @ 3210', same results, determine that mill is plugged. TOOH w/ tbg & LD on float, BO bit sub & had approx 3' of rust in tbg that bridged off @ string float, CO tbg, MU 4 3/4" Hurricane mill, B/S & TIH w/ 50 jts tbg, break circ w/ air only, TIH w/ 73 jts tbg (173 total) & RU 2 5" PS, PU 1 jt tbg, break circ w/ 12 bph air/soap mist. DO 5 5" 10K CBP @ 5566', work tbg & circ bottoms up. Run four 5 bbl sweeps w/ rig pump, cut mist & circ well dry, SIWFN.

05-09-2009

Recap: SU rig & equip, push remaining CBP to 6900', break circ w/ 12 bph a/s mist, run three 4 bbl sweeps & circ well clean. LD 1 jt tbg, RD 2.5" PS, TOOH w/ 214 total jts & LD on float. ND stripper head & NU WL pack off, RU BWWC, RIH w/ gauge ring to 6880', POOH, WL set Halliburton 5.5" 10K CBP @ 6680', perf Upper Mancos (6535 - 6655), bottom up 3 SPF @ 120 degree phasing w/ 3 3/8" SFG, .34" Dia, 21" Pen & 10 Grm Chgs, 13 total locations w/ 39 total holes, all shots fired RD WL, ND WL pack off, NU stripper head, MU Halliburton full bore packer, 2 jts 2 7/8" L-80 tbg, x-over & TIH w/ 80 stds 3.5" L-80 tbg, leave packer @ 5103', SIWFN.

05-10-2009

Recap: SU rig & equip, finish TIH w/ tbg, full bore packer, 2 jts 2 7/8" L-80 tbg, x-over, 207 jts 3.5" L-80 tbg, one 4'x3.5" pup, one 6'x3.5 pup & one 8'x3.5" pup jt. Stripper mud cross off BOP stack, MU Antelope Iso tool w/ frac valve & frac Y, set packer @ 6495' & NU Iso tool to top of 5K BOP's. Load hole w/ 2% KCL, BD Upper Mancos (6535-6655') @ 2894 psi @ 2 bpm, 3 bpm = 2439 psi, 4 bpm = 2555 psi, 5 bpm = 2686 psi, 6 bpm = 2930 psi, pump @ 6 bpm for 5 min & then start step down, 5 bpm = 2665 psi, 4 bpm = 2541 psi, 3 bpm = 2442 psi, 2 bpm = 2209 psi, 1 bpm = 2122 psi, ISIP = 1918 psi, 5 min SI = 1274 psi, 10 min = 797 psi, 15 min = 441 psi, 30 min SI = 0 psi, SI well until Wednesday's frac & monitor w/ data trap.

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05-12-2009

Recap: RU Halliburton Serv, Psi test lines, BD Mancos (6535'-6655') @ 2326 psi @ 8.4 bph, pump 951 gals 15% HCL acid & pressured out, acid is @ 1800' f/ perfs, surge pressure off well to pit & displaced acid to perfs @ 4.5 bpm, pressure loss of approx 500 psi after acid cleared perfs, pump CL gel pad & frac well w/ 5020 lbs 100 mesh BASF @ .50 ppg, followed w/ 55745 lbs 40/70 BASF @ .75ppg, 1.0 ppg & went back to .75 ppg after increase in pressure, monitor backside pressure throughout job & @ the end pressure on csg started increasing rapidly, SD sand & go to flush, MIR = 26.4 bpm, AIR = 19.6 bpm, MTP = 5566 psi, ATP = 4665 psi, ISIP = 2242 psi, 5 min SI = 1916 psi, 10 min = 1820 psi, 15 min = 1758 psi, total fluid to recover = 2231 bbls. RD Halliburton Serv, RU FB line to Frac Y, open well to FB tank on 8/64" choke, psi on tbg = 950 psi, psi on csg = 650, will monitor both pressures throughout the night.

05-13-2000

Recap: Flow well to FB tank on 32/64" choke. SU rig & equip, SICP = 0 psi, SITP = 0, RD FB line for frac Y, ND Antelopes ISO tool & WO Halliburton tool hand. Release Halliburton 5.5" packer, it was hung up, let fluid equalize & pull approx 20,000 lbs over & it pulled free. LD Antelopes ISO tool, BO 4' - 6' & 8' x 3.5" pup Jts, TOOH & LD 3.5" tbg on tbg trailers, B/O & LO tools. Swap out handling tools to 2 7/8", swap out pipe rams. Help Triple S Trucking move trailers w/ 3.5" tbg on them & spot in trailer w/ 2 7/8" tbg & SIWFN

05-14-2009

Recap: MU 4 3/4" Hurricane mill, B/S & tally, rabbit & TIH w/ 100 jts tbg, set mill @ 3180', RU Kelly hose. Break circ w/ air only @ 1200 psi, unload wtr off well & record rets. SD air & PU 60 jts 2 7/8" tbg, RU Kelly hose, break circ w/ air only @ 1350 psi & unload wtr off well to FB tank. SD air & PU 44 jts 2 7/8" tbg (204 total jts), set mill @ 6560', RU Kelly hose, break circ w/ air only @ 1050 psi. Unload wtr off well w/ air only, turn over to FB crew. Unload wtr off well w/ air only, wtr is dropping off rapidly, take readings & monitor rets, record FB data, for details see FB report.

05-15-2009

Recap: Unload wtr off well w/ air to FB tank, record FB data. SU rig & equip, PU 2 jts tbg & tag fill @ 6660'. RU 2.5" PS, break circ w/ 12 bph a/s mist, CO 20' of fill to 6680', run 3 bbl sweeps every 30 min, circ well clean & SD mist & dry up tbg. LD 5 jts tbg & set mill @ 6530', turn over to night crew. Unload wtr off well w/ air to FB tank, record FB data, for details see FB report.

05-16-2009

Recap: Unload wtr off well w/ air only & record FB data, when rets get below 4 bph we SD air for a couple of hrs & let wtr enter WB, then unload wtr w/ air & record FB data, for details see FB report.

05-17-2009

Recap: Unload wtr off well w/ air only & record FB data, when rets get below 4 bph we SD air for a couple of hrs & let wtr enter WB, then unload wtr w/ air & record FB data, for details see FB report.

05-18-2009

Recap: Unload wtr off well, SD air when rets get below 5 bph & let wtr enter WB. SU rig & equip, TIH & tag fill @ 6665', RU 2.5" PS, break circ w/ 10 bph a/s mist, CO 15' of fill to top of 5.5" CBP @ 6680', run sweeps & circ well clean, LD 5 jts tbg & turn well over to night crew. Unload wtr off well, SD air when rets get below 5 bph & let wtr enter WB, record FB data, for details see FB report.

05-19-2009

Recap. Unload wtr off well w/ air only, record FB data. SU rig & equip, TIH w/ 5 jts 2 7/8" tbg & tag fill @ 6670', RU 2.5" PS & break circ w/ 12 bph air/soap mist (208 total jts). CO 10' of fill & DO 5.5" 10K CBP @ 6680', pump two 5 bbl sweeps & circ well clean, PU 6 jts 2 7/8" tbg & tag fill @ 6875' (214 total jts), break circ w/ 12 bph a/s mist. DO remaining plug & CO 25' of fill to 6900', DO 2nd 5.5", 10K CBP @ 6900', pump two 5 bbl sweeps & circ well clean. PU 2 jts tbg & push plug down, RD 2.5" PS, PU 28 jts tbg (244 total jts) & push remaining plug to 7850' - TOOH w/ 1 jt tbg & hung up on something, pull 40,000 over string wt, RU 2.5" PS & break circ w/ 12 bph a/s mist, pull 90,000 lbs & rotate past tight spot, run two 5 bbl sweeps & circ WB clean, SD air & mist & LD 5 jts of tbg w/ 5 jts tbg (until we quit dragging), RD 2.5" PS, TOOH w/ 1120 jts tbg & LD on tbg trailer, turn well over to night crew. Flow well to flare thru 3 stage separator & measure gas, for details see FB report.

05-20-2009

Recap: Flow well thru 3 stage separator & measure gas, for details see FB report. SU rig & equip, TOOH w/ 124 jts 2 7/8" tbg, BO Hurricane Mill, WO tbg to be delivered to loc. MU 1/2 M/S coupler, 1.78" S/N, tally, rabbit & TIH w/ 240 jts 2.375" tbg, land well @ 7610' KB. RD rig floor, NDBOP stack, NUWH & test @ 3000 psi. Pump 10 bbls 2% KCL & follow w/ air, pump out aluminum plug @ 850 psi, reverse flow & get well flowing up tbg. RD rig, pump, pit & all hardline, police loc & prepare to move rig in the morning to the RU #6C, SIWFN & turn well over to production. FINAL REPORT