

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator WILLIAMS PRODUCTION COMPANY	Contact: TRACY ROSS E-Mail: tracy.ross@williams.com	5. Lease Serial No. SF-078893
3a. Address 4500 ONE WILLIAMS CENTER, PO BOX 3102, MS 25 TULSA, OK 74101	3b. Phone No. (include area code) Ph: 918.573.6254 Fx: 918.573.1298	10. Field and Pool, or Exploratory BLANCO MV	6. If Indian, Allottee or Tribe Name
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T31N R4W NENE 890FNL 1060FEL			7. If Unit or CA/Agreement, Name and/or No.
			8. Well Name and No. ROSA UNIT 84
			9. API Well No. 30-039-22598
			11. County or Parish, and State RIO ARriba COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Electronic Submission #14555 verified by the BLM Well Information System For WILLIAMS PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Matthew Halbert on 10/15/2002		OCT 15 2002
Name (Printed/Typed) TRACY ROSS	Title PREPARER	
Signature (Electronic Submission)	Date 09/25/2002	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved By _____		Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.		

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NMOCD

ROSA UNIT #84
COMPLETION RECAP

08/06/2002

Recap: Load out equip, road rig to loc. RU rig & spot equip. SICP = 1000 psi, blow well down. NDWH, NU BOP's. C/O to run 2 3/8" tbg. Work tbg anchor free, tally out w/116 jts 2 3/8" tbg. MU tools, TIH w/6 1/8" bit, scraper, BS & 118 jts tbg to 3730'. PU bit to 3450'. RU pump & pit. Circ hole clean w/140 bbls fw. Est inj rate of 1/2 bpm @ 1700 psi. SDFN

08/07/2002

Recap: Travel to loc, hold safety mtg. TOOH w/bit & scraper. TIH w/7" pkr to 3426'. RU BJ, load csg w/fw, set pkr @ 3426'. Mix & pump 100 sx type 3 neat cmt @ 14.5 ppg. Sqz FRTC perfs f/3610'- 3720', displace cmt 1 bbl past pkr. Rel pkr, POOH w/5 stds, reverse out clean & wash up. Set pkr @ 3110', pres sqz to 1500 psi & lock up, RD BJ. SDFN

08/08/2002

Recap: Travel to loc, hold safety mtg. Rel pkr & TOOH w/same. TIH w/6 1/8" bit, tag TOC @ 3437'. RU power swivel, break circ w/fw. DO hard cmt f/3437'- 3726' & fell thru. Circ hole clean, pres test to 1800 psi & held solid. Continue in w/bit, tag fill @ 3844'. Circ sand & frac balls out f/3844'- 3930'. DO soft cmt f/3930'- 3956' (cibp). Circ hole clean, hang swivel back. TOOH w/bit, break out tools. SDFN

08/09/2002

Recap: Travel to loc, hold safety mtg. Tally/caliper & MU tools. TIH w/6 1/8" OD X 4 3/4" ID cut shoe, tag cibp @ 3956'. RU power swivel. Break circ w/fw, mill & cut fishing neck over cibp. Push cibp to TOL @ 3990'. Circ clean hang swivel back. TOOH w/tools. Recover 1" ring w/left hand threads stuck inside shoe. Lay down tools. - SDFN

08/10/2002

Recap: Travel to loc, hold safety mtg. MU tools. TIH w/4 5/8" overshot, work over fish. TOOH w/overshot, no fish but does have slide marks in grapple. C/O grapple to 4 1/2", TIH w/overshot to fish. RU power swivel, break circ w/fw (reverse), wash over fish. TOOH w/overshot, no fish. MU tools, TIH w/6 1/8" X 4 5/8" cut shoe, RU power swivel. Break circ w/fw, mill over CIBP & make 14". Circ hole clean, hang swivel back. TOOH w/cut shoe. - SDFN

08/11/2002

Recap: Travel to loc, hold safety mtg. MU tools. TIH w/4 5/8" overshot, work over fish. TOOH w/overshot, no fish. TIH w/3 7/8" pilot mill. Mill on fish, make 1' & quit making hole, RD power swivel. TOOH w/tools, LD same. SDFN

08/12/2002

Recap: Travel to loc, hold safety mtg. MU tools, TIH w/6 1/8" concave mill & 6 1/8" string above. C/O motor on power swivel, replace O-rings in hydraulic pump. Unload hole w/air only. Break circ w/15 bph air/soap mist. Mill on fish & make 8". Run 6 bbl sweep, hang swivel back. Start out w/mill & blow rig hydraulic pump. SDFN

08/13/2002

Recap: Travel to loc, hold safety mtg. C/O rig hydraulic pump. TOOH w/6 1/8" concave mill. TIH w/3 7/8" metal muncher junk mill & 6 1/8" string mill above to fish @ 3996'. Break circ w/20 bph air/soap mist. Mill on fish & make 18" & fell thru, run two 6 bbl sweeps. TOOH w/tools. TIH w/3 7/8" bit to bottom 1/2 of CIBP @ 4007'. Push piece of CIBP to 4018' & stack out. RU power swivel, load & break circ w/fw. Drill on & spud on piece of CIBP from 4018'- 4060', ret's heavy cmt, metal & gas. Circulate clean, hang swivel back. PU bit to 3958'. SDFN

08/14/2002

Recap: Travel to loc, hold safety mtg. TIH w/3 7/8" bit, tag TOC @ 4060'. RU power swivel, break circ w/fw. DO cmt from 4060'- 4290' & fell thru. Stage in w/bit 20 jts at a time & unload heavy gel from 4290'- 6833'. Circulate hole clean. Hang swivel back, LD 14 jts. PU bit to 3958'. SDFN

08/15/2002

Recap: Travel to loc, hold safety mtg. TOO H w/bit. Tally, caliper & make up tools. TIH w/ 6 1/8" pilot mill, tag/stack out @ 3664'. RU power swivel, attempt to work mill down, not making any hole. Unload hole w/air only, break circ w/20 bph air/soap mist. Mill on & push obstruction to TOL. Mill on liner hanger & make 3'. Run two 6 bbl sweeps, PU bit to 3990'. SDFN

08/16/2002

Recap: Travel to loc, hold safety mtg. Mill on liner hanger w/20 bph air/soap mist, ret's hvy rubber & med metal cuttings, make 3' to 4005'. Run two 6 bbl sweeps, PU bit to 3990'. SDFN

08/17/2002

Recap: Travel to loc, hold safety mtg. Spot in flt w/2 7/8" AOH. Mill on liner hanger w/20 bph air/soap mist, make 1' to 4006' & lose torque. Run 6 bbl sweep, Hang swivel back. TOO H w/tools, (mill spent). Tally, PU & TIH w/new 6 1/8" pilot mill, 6 dc's & 122 jts 2 7/8" AOH to tol @ 4006'. RU power swivel. SDFN

08/18/2002

Recap: Travel to loc, hold safety mtg. Mill on liner hanger w/20 bph air/soap mist, make 14' f/4006' - 4020'. Run two 6 bbl sweeps. SDFN

08/19/2002

Recap: Travel to loc, hold safety mtg. TOO H w/6 1/8" pilot mill. TIH w/4 1/2" overshot, tighten every tool jt. RU powerswivel, tie back on single line. Break circ w/15 bph air/soap mist, work over & latch onto 4 1/2" csg stub. RU Weatherford WI, RIH w/freepoint & CCI. 100% free at overshot @ 4000' (wl) & 40% free at 1" csg collar @ 4029' (wl). Work csg up & down, freepoint w/same results, RD WI. RU on 2 lines, rel & TOO H w/ overshot. SDFN

08/20/2002

Recap: Travel to location, hold safety mtg. Tally, caliper & MU tools. TIH w/2 jts 5 3/4" wash pipe to fish top @ 4012'. RU power swivel, tie back on single line. Wash over 4 1/2" csg from 4012' - 4077', run four 6 bbl sweeps. Hang swivel back. TOO H w/ tools, ld same. SDFN

08/21/2002

Recap: Travel to loc, hold safety mtg. Tally, caliper & MU tools. TIH w/4 1/2" overshot. Latch onto 4 1/2" csg top @ 4012'. RU wireline, freepoint & back off csg 2nd collar down @ 4084', RD wl. POOH laying down w/workstring, overshot, 1 full jt & 26' of 4 1/2" csg, (collar looking up). ND blooie line, load out workstring, spot in float w/4 1/2" csg. SDFN

08/22/2002

Recap: Travel to loc, hold safety mtg. NDBOPs, ND tbg head, NU 11" 3m X 11" 3m csg head, pres test to 1500 psi & held. NU C/O spool & BOPs. RU csg crew. Tally in w/98 jts 4 1/2" 11.6# N-80 csg, screw into fish @ 4084'. Set csg in slips, cut off & dress up csg stub. NU tbg hanger, pres test seals to 3000 psi & held, NUBOPs. TIH w/3 7/8" bit to 6605'. Load csg w/fw, pres test to 2000 psi & held. SDFN

08/23/2002

Recap: Travel to loc, hold safety mtg. TOO H w/bit. RU wireline, run GR/CBL/CCL, TOC @ 6180', free pipe to surface. Perf 4 sqz holes @ 6080'. Break circ down 4 1/2" csg & out 7" w/rig pump. RU BJ, hold safety mtg. Pump 10 bbls fw ahead, mix & pump 250 sx = 88 bbls Premium Light High Strength cmt @ 12.5 ppg, displace cmt to 5980 w/93 bbls fw, SI w/1600 psi on csg, wash up & RD BJ. WOC. SDFN

08/24/2002

Recap: Travel to loc, hold safety mtg. TIH w/w/3 7/8", tag TOC @ 5985'. RU power swivel, break circ w/fw. DO hard cmt f/5985' - 6101' & fell thru. PU 10 jts to 6414'. Circ clean, pres test csg to 1800 psi & held solid. TOO H w/bit. RU wireline, run CBL f/6200' - 5000', TOC @ 5150', good bond across zones of interest. NU stripper head. SDFN

08/25/2002

Recap: Travel to loc, hold safety mtg. TIH open ended to 6416'. Wait on BJ (truck broke down). RU BJ, circ hole clean w/100 bbls treated coal wtr. LD 3 jts, EOT @ 6320'. Spot 500 gals 15% HCl acid across PLO. TOO H w/tbg. Perforate PLO top down in acid 1 spf w/3 1/8" sfg, .33" dia, 16.76" pen & 10 grm chgs @ 6164', 66', 69', 71', 73', 75', 77', 80', 89', 92', 97', 6200', 10', 12', 17', 20', 25', 30', 36', 44', 52', 54', 61', 63', 6305', 09', 11', 13', 16' and 18' all fired, (30 total). Displace acid w/25 bbls fw. ND stripper head & mud cross, NU frac Y. SDFN

08/26/2002

Recap: Travel to loc. RU BJ, hold safety mtg, pressure test lines. Breakdown PLO @ 2400 psi, est inj rate of 27 bpm @ 2680 psi, ISIP = 950 psi. Acdz PLO w/1000 gals 15% HCl acid & 50 balls, close ball off @ 3600 psi. Recover 22 balls w/16 hits. Frac PLO w/71,000 lbs 20/40 Az & 1694 bbls fw, cut sand 9000 lbs short on 2 ppg stage, starting to screen out. MIR = 59 bpm, AIR = 56 bpm, MTP = 3600 psi, ATP = 3460 psi, ISIP = 1430 psi. Attempt to set 4 1/2" CIBP @ 6150', tag sand @ 6113'. PU & hang up, attempt to set CIBP @ 6090' but wouldn't fire. Pull out of rope socket leaving 13' of tools in hole, fish top @ 6073'. RD BJ, ND frac Y, NU stripper head. SDFN

08/27/2002

Recap: Travel to loc. Tally, caliper & MU tools. Stage in w/3 1/8" overshot to 3601'. RU air, unload & blow well from 3601' w/air only, ret's heavy water & extra heavy sand. Continue in w/tools to 5720'. Blow well from 5720' w/air only, last bucket test = 53 bph & 4 cups of sand. TOO H w/tools. Put yellow dog on line, turn over to flowback, flow natural & evaporate pit

08/28/2002

Recap: Travel to loc, hold safety mtg. TIH w/overshot to 5720'. Unload & blow well w/air only, ret's heavy water & heavy sand. Continue in w/overshot, stack out on & push fish to 6710'. Blow well from 6710', bucket test = 28 bph & 1 1/2 cups of sand. TOO H w/tools, no fish. TIH w/notched collar to 5800'. RU air, turn over to flowback, blow well

08/29/2002

Recap: Travel to loc, hold safety mtg. Continue in w/notched collar to 6400'. RU air to unload well, tbg plugged. TOO H w/tbg. WL set 4 1/2" CIBP @ 6143'. RU BJ, load hole w/90 bbls treated coal wtr. Pressure test csg to 2500 psi, slow leak off. Spot 500 gals 15% HCl acid across CH/Men. TOO H w/tbg. Perforate CH/Men bottoms up in acid 1 spf w/3 1/8" SFG, .33 dia, 16.76" pen & 10 grm chgs @ 5968', 70', 74', 78', 82', 86', 90', 94', 97', 6000', 03', 37', 39', 41', 43', 45', 47', 49', 6131', 33', 35', 37', 39', 41' & 43', all fired (25 holes ttl). ND stripper head, RU frac Y. SDFN

08/30/2002

Recap: Travel to loc. RU BJ, hold safety mtg, pres test lines. Breakdown CH/Men @ 2875 psi, est inj rate of 16 bpm @ 2720 psi, ISIP = 1720 psi. Acdz Pt.Lo w/1000 gals 15% hcl acid & 50 balls, ball off @ 3550 psi. Recover 49 balls w/21 hits. Frac Pt.Lo w/80,500 lbs 20/40 Az & 1841 bbls fw. MIR = 53 bpm, AIR = 50 bpm, MTP = 3580 psi, ATP = 3400 psi, ISIP = 1520 psi. RD BJ, ND frac Y, RU rig floor, NU stripper head. Well flowing back on own. TIH w/notched clr to 5016'. Turn over to flowback, flow natural & evaporate pit. SDFN

08/31/2002

Recap: Flow natural & evaporate pit, returns hvy wtr & lt sand

09/01/2002

Recap: Flow natural & evaporate pit, returns lt wtr & trace sand. SI & SDFN (off Monday)

09/03/2002

Recap: Travel to loc, hold safety mtg. SICP = 1450 psi, blow well down. TOO H w/tbg. TIH w/3 7/8" mill & 6 dc's. Tag 7' of fill @ 6143' (bttn perf). Unload well w/air only. CO to CIBP @ 6150', run 6 bbl sweep. Blow well w/air only. Flow natural. Gauge well on 2" open line, all gauges hvy mist to wet avg 576 mcf. Mill out CIBP w/16 bph air/soap mist. Push bttn 1/2 of CIBP to 6542'. Blow well w/air only, bucket test = 71 bph. Hang swivel back, PU mill to 6230'. RU air, turn over to flowback, blow & flow natural. Q = 576 mcf

NMOCD

09/04/2002

Recap: Travel to loc, hold safety mtg. TOOH, LD w/DC's. TIH w/production tbg to 6541'. Blow well w/air only from 6541', ret's heavy water w/trace sand. PU tbg to 6319'. RU air, blow well w/ air only, turn over to flowback, alternate blowing & flowing well overnight

09/05/2002

Recap: Travel to loc, hold safety mtg. Blow well w/air only, ret's heavy water & no sand. Flow natural, open on 2" line for pitot test & log off (no gauge). Wait & let well unload on own, get water sample. Blow well w/air only. Pump check off @ 1000 psi. RU air to backside, attempt to kick well off down csg & up tbg, wouldn't kick off. Unload well down tbg, turn over to flowback, blow well overnight

09/06/2002

Recap: Travel to loc, hold safety mtg. Blow well w/air only, ret's heavy water & no sand. Water analysis determined to be frac water. Attempt to land tbg, donut cracked. Wait on new donut from town. Land tbg @ 6301' KB as follows: expendable check on bottom, 1 jt 2-3/8" tbg, 1.81" SN & 199 jts 2-3/8" tbg, (total 200 jts). NDBOP's, NUWH, RD rig & equipment. Final report

Pipe received: 280 jts 2 3/8" 4.7# J-55 yellow band

Pipe used in well: 114 jts out of 116 jts pulled f/well & 86 jts 2 3/8" yellow band used for production string

Pipe transferred: 196 jts 2 3/8" yellow band to FIS

NMOC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
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Contact: TRACY ROSS E-Mail: tracy.ross@williams.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 4500 ONE WILLIAMS CENTER, PO BOX 3102, MS 25 TULSA, OK 74101	3b. Phone No. (include area code) Ph: 918.573.6254 Fx: 918.573.1298	8. Well Name and No. ROSA UNIT 84
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T31N R4W NENE 890FNL 1060FEL		9. API Well No. 30-039-22598
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12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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RECEIVED FOR RECORD

OCT 15 2002

FARMINGTON FIELD OFFICE

14. I hereby certify that the foregoing is true and correct. Electronic Submission #14555 verified by the BLM Well Information System For WILLIAMS PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Matthew Halbert on 10/15/2002 ()	
Name (Printed/Typed) TRACY ROSS	Title PREPARER
Signature (Electronic Submission)	Date 09/25/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

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NMCCD

ROSA UNIT #84 COMPLETION RECAP

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08/07/2002

Recap: Travel to loc, hold safety mtg. TOOH w/bit & scraper. TIH w/7" pkr to 3426'. RU BJ, load csg w/fw, set pkr @ 3426'. Mix & pump 100 sx type 3 neat cmt @ 14.5 ppg. Sqz FRTC perms f/3610' - 3720', displace cmt 1 bbl past pkr. Rel pkr, POOH w/5 stds, reverse out clean & wash up. Set pkr @ 3110', pres sqz to 1500 psi & lock up, RD BJ. SDFN

08/08/2002

Recap: Travel to loc, hold safety mtg. Rel pkr & TOOH w/same. TIH w/6 1/8" bit, tag TOC @ 3437'. RU power swivel, break circ w/fw. DO hard cmt f/3437' - 3726' & fell thru. Circ hole clean, pres test to 1800 psi & held solid. Continue in w/bit, tag fill @ 3844'. Circ sand & frac balls out f/3844' - 3930'. DO soft cmt f/3930' - 3956' (cibp). Circ hole clean, hang swivel back. TOOH w/bit, break out tools. SDFN

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Recap: Travel to loc, hold safety mtg. Tally/caliper & MU tools. TIH w/6 1/8" OD X 4 3/4" ID cut shoe, tag cibp @ 3956'. RU power swivel. Break circ w/fw, mill & cut fishing neck over cibp. Push cibp to TOL @ 3990'. Circ clean hang swivel back. TOOH w/tools. Recover 1" ring w/left hand threads stuck inside shoe. Lay down tools. - SDFN

08/10/2002

Recap: Travel to loc, hold safety mtg. MU tools. TIH w/4 5/8" overshot, work over fish. TOOH w/overshot, no fish but does have slide marks in grapple. C/O grapple to 4 1/2", TIH w/overshot to fish. RU power swivel, break circ w/fw (reverse), wash over fish. TOOH w/overshot, no fish. MU tools, TIH w/6 1/8" X 4 5/8" cut shoe, RU power swivel. Break circ w/fw, mill over CIBP & make 14". Circ hole clean, hang swivel back. TOOH w/cut shoe. - SDFN

08/11/2002

Recap: Travel to loc, hold safety mtg. MU tools. TIH w/4 5/8" overshot, work over fish. TOOH w/overshot, no fish. TIH w/3 7/8" pilot mill. Mill on fish, make 1' & quit making hole, RD power swivel. TOOH w/tools, LD same. SDFN

08/12/2002

Recap: Travel to loc, hold safety mtg. MU tools, TIH w/6 1/8" concave mill & 6 1/8" string above. C/O motor on power swivel, replace O-rings in hydraulic pump. Unload hole w/air only. Break circ w/15 bph air/soap mist. Mill on fish & make 8". Run 6 bbl sweep, hang swivel back. Start out w/mill & blow rig hydraulic pump. SDFN

08/13/2002

Recap: Travel to loc, hold safety mtg. C/O rig hydraulic pump. TOOH w/6 1/8" concave mill. TIH w/3 7/8" metal muncher junk mill & 6 1/8" string mill above to fish @ 3996'. Break circ w/20 bph air/soap mist. Mill on fish & make 18" & fell thru, run two 6 bbl sweeps. TOOH w/tools. TIH w/3 7/8" bit to bottom 1/2 of CIBP @ 4007'. Push piece of CIBP to 4018' & stack out. RU power swivel, load & break circ w/fw. Drill on & spud on piece of CIBP from 4018' - 4060', ret's heavy cmt, metal & gas. Circulate clean, hang swivel back. PU bit to 3958'. SDFN

08/14/2002

Recap: Travel to loc, hold safety mtg. TIH w/3 7/8" bit, tag TOC @ 4060'. RU power swivel, break circ w/fw. DO cmt from 4060' - 4290' & fell thru. Stage in w/bit 20 jts at a time & unload heavy gel from 4290' - 6833'. Circulate hole clean. Hang swivel back, LD 14 jts. PU bit to 3958'. SDFN

NMOCD

08/15/2002

Recap: Travel to loc, hold safety mtg. TOO H w/bit. Tally, caliper & make up tools. TIH w/ 6 1/8" pilot mill, tag/stack out @ 3664'. RU power swivel, attempt to work mill down, not making any hole. Unload hole w/air only, break circ w/20 bph air/soap mist. Mill on & push obstruction to TOL. Mill on liner hanger & make 3'. Run two 6 bbl sweeps, PU bit to 3990'. SDFN

08/16/2002

Recap: Travel to loc, hold safety mtg. Mill on liner hanger w/20 bph air/soap mist, ret's hvy rubber & med metal cuttings, make 3' to 4005'. Run two 6 bbl sweeps, PU bit to 3990'. SDFN

08/17/2002

Recap: Travel to loc, hold safety mtg. Spot in flt w/2 7/8" AOH. Mill on liner hanger w/20 bph air/soap mist, make 1' to 4006' & lose torque. Run 6 bbl sweep, Hang swivel back. TOO H w/tools, (mill spent). Tally, PU & TIH w/new 6 1/8" pilot mill, 6 dc's & 122 jts 2 7/8" AOH to tol @ 4006'. RU power swivel. SDFN

08/18/2002

Recap: Travel to loc, hold safety mtg. Mill on liner hanger w/20 bph air/soap mist, make 14' f/4006'- 4020'. Run two 6 bbl sweeps. SDFN

08/19/2002

Recap: Travel to loc, hold safety mtg. TOO H w/6 1/8" pilot mill. TIH w/4 1/2" overshot, tighten every tool jt. RU powerswivel, tie back on single line. Break circ w/15 bph air/soap mist, work over & latch onto 4 1/2" csg stub. RU Weatherford W1, RIH w/freepoint & CCL. 100% free at overshot @ 4000' (wl) & 40% free at 1st csg collar @ 4029' (wl). Work csg up & down, freepoint w/same results, RD W1. RU on 2 lines, rel & TOO H w/ overshot. SDFN

08/20/2002

Recap: Travel to location, hold safety mtg. Tally, caliper & MU tools. TIH w/2 jts 5 3/4" wash pipe to fish top @ 4012'. RU power swivel, tie back on single line. Wash over 4 1/2" csg from 4012'- 4077', run four 6 bbl sweeps. Hang swivel back. TOO H w/ tools, ld same. SDFN

08/21/2002

Recap: Travel to loc, hold safety mtg. Tally, caliper & MU tools. TIH w/4 1/2" overshot. Latch onto 4 1/2" csg top @ 4012'. RU wireline, freepoint & back off csg 2nd collar down @ 4084', RD wl. POOH laying down w/workstring, overshot, 1 full jt & 26' of 4 1/2" csg, (collar looking up). ND blooie line, load out workstring, spot in float w/4 1/2" csg. SDFN

08/22/2002

Recap: Travel to loc, hold safety mtg. NDBOPs, ND tbg head, NU 11" 3m X 11" 3m csg head, pres test to 1500 psi & held. NU C/O spool & BOPs. RU csg crew. Tally in w/98 jts 4 1/2" 11.6# N-80 csg, screw into fish @ 4084'. Set csg in slips, cut off & dress up csg stub. NU tbg hanger, pres test seals to 3000 psi & held, NUBOPs. TIH w/3 7/8" bit to 6605'. Load csg w/fw, pres test to 2000 psi & held. SDFN

08/23/2002

Recap: Travel to loc, hold safety mtg. TOO H w/bit. RU wireline, run GR/CBL/CCL, TOC @ 6180', free pipe to surface. Perf 4 sqz holes @ 6080'. Break circ down 4 1/2" csg & out 7" w/rig pump. RU BJ, hold safety mtg. Pump 10 bbls fw ahead, mix & pump 250 sx = 88 bbls Premium Light High Strength cmt @ 12.5 ppg, displace cmt to 5980 w/93 bbls fw, SI w/1600 psi on csg, wash up & RD BJ. WOC. SDFN

08/24/2002

Recap: Travel to loc, hold safety mtg. TIH w/w/3 7/8", tag TOC @ 5985'. RU power swivel, break circ w/fw. DO hard cmt f/5985'- 6101' & fell thru. PU 10 jts to 6414'. Circ clean, pres test csg to 1800 psi & held solid. TOO H w/bit. RU wireline, run CBL f/6200'- 5000', TOC @ 5150', good bond across zones of interest. NU stripper head. SDFN

08/25/2002

Recap: Travel to loc, hold safety mtg. TIH open ended to 6416'. Wait on BJ (truck broke down). RU BJ, circ hole clean w/100 bbls treated coal wtr. LD 3 jts, EOT @ 6320'. Spot 500 gals 15% HCl acid across PLO. TOO H w/tbg. Perforate PLO top down in acid 1 spf w/3 1/8" sfg, .33" dia, 16.76" pen & 10 grm chgs @ 6164', 66', 69', 71', 73', 75', 77', 80', 89', 92', 97', 6200', 10', 12', 17', 20', 25', 30', 36', 44', 52', 54', 61', 63', 6305', 09', 11', 13', 16' and 18' all fired, (30 total). Displace acid w/25 bbls fw. ND stripper head & mud cross, NU frac Y. SDFN

08/26/2002

Recap: Travel to loc. RU BJ, hold safety mtg, pressure test lines. Breakdown PLO @ 2400 psi, est inj rate of 27 bpm @ 2680 psi, ISIP = 950 psi. Acidz PLO w/1000 gals 15% HCl acid & 50 balls, close ball off @ 3600 psi. Recover 22 balls w/16 hits. Frac PLO w/71,000 lbs 20/40 Az & 1694 bbls fw, cut sand 9000 lbs short on 2 ppg stage, starting to screen out. MIR = 59 bpm, AIR = 56 bpm, MTP = 3600 psi, ATP = 3460 psi, ISIP = 1430 psi. Attempt to set 4 1/2" CIBP @ 6150', tag sand @ 6113'. PU & hang up, attempt to set CIBP @ 6090' but wouldn't fire. Pull out of rope socket leaving 13' of tools in hole, fish top @ 6073'. RD BJ, ND frac Y, NU stripper head. SDFN

08/27/2002

Recap: Travel to loc. Tally, caliper & MU tools. Stage in w/3 1/8" overshot to 3601'. RU air, unload & blow well from 3601' w/air only, ret's heavy water & extra heavy sand. Continue in w/tools to 5720'. Blow well from 5720' w/air only, last bucket test = 53 bph & 4 cups of sand. TOO H w/tools. Put yellow dog on line, turn over to flowback, flow natural & evaporate pit

08/28/2002

Recap: Travel to loc, hold safety mtg. TIH w/overshot to 5720'. Unload & blow well w/air only, ret's heavy water & heavy sand. Continue in w/overshot, stack out on & push fish to 6710'. Blow well from 6710', bucket test = 28 bph & 1 1/2 cups of sand. TOO H w/tools, no fish. TIH w/notched collar to 5800'. RU air, turn over to flowback, blow well

08/29/2002

Recap: Travel to loc, hold safety mtg. Continue in w/notched collar to 6400'. RU air to unload well, tbg plugged. TOO H w/tbg. WL set 4 1/2" CIBP @ 6143'. RU BJ, load hole w/90 bbls treated coal wtr. Pressure test csg to 2500 psi, slow leak off. Spot 500 gals 15% HCl acid across CH/Men. TOO H w/tbg. Perforate CH/Men bottoms up in acid 1 spf w/3 1/8" SFG, .33 dia, 16.76" pen & 10 grm chgs @ 5968', 70', 74', 78', 82', 86', 90', 94', 97', 6000', 03', 37', 39', 41', 43', 45', 47', 49', 6131', 33', 35', 37', 39', 41' & 43', all fired (25 holes ttl). ND stripper head, RU frac Y. SDFN

08/30/2002

Recap: Travel to loc. RU BJ, hold safety mtg, pres test lines. Breakdown CH/Men @ 2875 psi, est inj rate of 16 bpm @ 2720 psi, ISIP = 1720 psi. Acidz Pt.Lo w/1000 gals 15% hcl acid & 50 balls, ball off @ 3550 psi. Recover 49 balls w/21 hits. Frac Pt.Lo w/80,500 lbs 20/40 Az & 1841 bbls fw. MIR = 53 bpm, AIR = 50 bpm, MTP = 3580 psi, ATP = 3400 psi, ISIP = 1520 psi. RD BJ, ND frac Y, RU rig floor, NU stripper head. Well flowing back on own. TIH w/notched clr to 5016'. Turn over to flowback, flow natural & evaporate pit. SDFN

08/31/2002

Recap: Flow natural & evaporate pit, returns hvy wtr & lt sand

09/01/2002

Recap: Flow natural & evaporate pit, returns lt wtr & trace sand. SI & SDFN (off Monday)

09/03/2002

Recap: Travel to loc, hold safety mtg. SICP = 1450 psi, blow well down. TOO H w/tbg. TIH w/3 7/8" mill & 6 dc's. Tag 7' of fill @ 6143' (bttm perf). Unload well w/air only. CO to CIBP @ 6150', run 6 bbl sweep. Blow well w/air only. Flow natural. Gauge well on 2" open line, all gauges hvy mist to wet avg 576 mcf/d. Mill out CIBP w/16 bph air/soap mist. Push bttm 1/2 of CIBP to 6542'. Blow well w/air only, bucket test = 71 bph. Hang swivel back, PU mill to 6230'. RU air, turn over to flowback, blow & flow natural. Q = 576 mcf/d

NMOCD

09/04/2002

Recap: Travel to loc, hold safety mtg. TOOH, LD w/DC's. TIH w/production tbg to 6541'. Blow well w/air only from 6541', ret's heavy water w/trace sand. PU tbg to 6319'. RU air, blow well w/ air only, turn over to flowback, alternate blowing & flowing well overnight

09/05/2002

Recap: Travel to loc, hold safety mtg. Blow well w/air only, ret's heavy water & no sand. Flow natural, open on 2" line for pitot test & log off (no gauge). Wait & let well unload on own, get water sample. Blow well w/air only. Pump check off @ 1000 psi. RU air to backside, attempt to kick well off down csg & up tbg, wouldn't kick off. Unload well down tbg, turn over to flowback, blow well overnight

09/06/2002

Recap: Travel to loc, hold safety mtg. Blow well w/air only, ret's heavy water & no sand. Water analysis determined to be frac water. Attempt to land tbg, donut cracked. Wait on new donut from town. Land tbg @ 6301' KB as follows: expendable check on bottom, 1 jt 2-3/8" tbg, 1.81" SN & 199 jts 2-3/8" tbg, (total 200 jts). NDBOP's, NUWH, RD rig & equipment. Final report

Pipe received: 280 jts 2 3/8" 4.7# J-55 yellow band

Pipe used in well: 114 jts out of 116 jts pulled f/well & 86 jts 2 3/8" yellow band used for production string

Pipe transferred: 196 jts 2 3/8" yellow band to FIS

NMOCD