

UNITED STATES  
DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION TO DRILL" for permit for such proposals

5. Lease Designation and Serial No.  
Jicarilla Apache Contract #60
6. If Indian, Allottee or Tribe Name  
Jicarilla Apache Nation
7. If Unit or CA, Agreement Designation
8. Well Name and No.  
INDIAN "H" #2
9. API Well No.  
30-039-29222
10. Field and Pool, or Exploratory Area  
BLANCO MV
11. County or Parish, State  
RIO ARRIBA, NM

SUBMIT IN TRIPLICATE

1. Type of Well  
Oil Well ☒ Gas Well ☒ Other ☐
2. Name of Operator  
WILLIAMS PRODUCTION COMPANY
3. Address and Telephone No.  
PO BOX 3102 MS 25-2, TULSA, OK 74101 (918) 573-6254
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
740' FNL & 2076' FEL, NW/4 NE/4 SEC 22-T28N-R03W

CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
Notice of Intent	Abandonment
X Subsequent Report	Recompletion
Final Abandonment	Plugging Back
	Casing Repair
	Altering Casing
	Other <u>Drilling Complete</u>
	Change of Plans
	New Construction
	Non-Routine Fracturing
	Water 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 (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

11-19-2004 RU, spud well @ 12:00 hrs 11/18/04. Drill 12 1/4" surface hole from 0' to 169'. Drill 12 1/4" surface hole from 169' to 286' TD of surface hole section. Circ & cond hole, circ hole clean, POOH onto bank - stand back in derrick. RU casers, run 6 jts, 9 5/8", 36#, K-55, ST&C surface csg, landed @ 275', RD casers. Circ csg, RU cementers. Cmt 9 5/8" csg as follows: 100 sxs (141 cu.ft.) Type III cmt + 2% CaCl = .25# sx cello flake + 16.8 bbls mix water = 25 bbls slurry @ 14.5 ppg (Yield = 1.41/WGPS = 6.84). Displace w/19 bbls FW, 1 bbl cmt returns to surface. WOC, prepare to NU BOP.

11-20-2004 WOC, prepare to NU BOP. Back out landing jt, NU BOP, all related equipment & lines. Test BOP, all related equipment & lines.

11-21-2004 Test BOP and all related equipment & lines. Pick up bit & BHA. RIH & tag top of cmt @ 195'. Drill cmt from 195' to 275'. Clean out from 275' to 286' - TD of surface hole. Drill 8 3/4" hole section (new formation) of well from 286' to 655'. Leak off @ 655' = 11.8 ppg. Rig repair on galled cross over subs. Drill 8 3/4" hole from 655' to 800'. Rig Wireline TOTCO Survey @ 800' = 3/4 deg. Drill 8 3/4" hole from 800' to 1100'.

- TOC on 4 1/2" casing must be determined by CBL. Report results.

14. I hereby certify that the foregoing is true and correct

Signed Tracy Ross  
Tracy Ross

Title Sr. Production Analyst

Date February

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

ACCEPTED FOR RECORD

APR 11 2005

FARMINGTON FIELD OFFICE  
BY SKB

11-22-2004 Drill 8 3/4" hole from 1100' to 2681'.

11-23-2004 Drill 8 3/4" hole from 2681' to 3210'.

11-24-2004 Drill 8 3/4" hole from 3210' to 3664'.

11-25-2004 Drill 8 3/4" hole from 3664' to 4038', bit quit @ 0420 hrs. Circulate & condition hole, prepare to POOH to log well.

11-26-2004 Change over to 7" csg rams, RU loggers, attempt to run open hole logs, logs will not go past 1100'. POOH w/ logging tool, RD loggers. RIH to 1050', PU Kelly & break circulation, wash & ream from 1050' to 3700', tight hole from 1120' to 3700', hole is in good shape to 3700' from washing & reaming, working hole clean.

11-27-2004 Wash & ream hole clean from 3700' to 4038'. Continue drilling 8 3/4" hole from 4038' to 4060', deepen hole to fit 7" csg. Circulate & condition hole. RU loggers, log with Halliburton, logs went to 4054', TD of hole @ 4060', RD loggers. RIH to clean out & condition hole after logging, wash & ream from 4040' to 4060'. Circulate & condition hole to run 7" csg.

11-28-2004 POOH w/ DP & DC's. RU csg crew, land 7", 20# K-55, ST&C csg @ 4039' as follows: guide shoe on bottom, 1 jt csg, insert float, 86 jts csg & landing jt. Run 11 turbolizers & 13 standard centralizers. RU BJ Services to cmt 7" csg in two stages. Stage 1: 625 sxs (1300 cu.ft.) Premium Light + 8% gel + 1% CaCl + .25#sx Cello Flake + 172.3 bbls mix wtr = 231 bbls slurry @ 12.1 PPG (yield = 2.08 / WGPS = 11.62). Stage 2: 50 sxs (70 cu.ft.) Type III + 1% CaCl + .25#SX Cello Flake + 8.12 bbls mix wtr = 12.48 bbls slurry @ 14.5 PPG (yield = 1.4 / WGPS = 6.82) Displace with 162.4 bbls FW. Bump plug @ 2450 = 650 psi over. Lost circulation during displacement, no cmt returns to surface, float is not holding. SWI with 1800 psi. WOC, will run temp survey tomorrow.

11-29-2004 WOC. Run temperature survey to find TOC. TOC @ 525', informed BLM by phone. Continue to RU to air drill. Test blind rams & csg @ 1500 psi for 30 min, good test on all. Continue to RU to air drill.

11-30-2004 CPU air hammer, RIH to 2030', blow well @ 2030'. RIH, thaw ice plugs out of drill string.

12-01-2004 Blow well down @ 3962', tag cmt @ 4000', blow dry. Drill cmt, float, cmt & shoe @ 4039'. Clean out from 4039' to 4060'. Well not dusting good, blow dry to dust. Air drill 6 1/4" hole from 4060' to 4310'.

12-02-2004 Air/hammer drill 6 1/4" hole from 4310' to 5400'.

12-03-2004 Air/hammer drill 6 1/4" hole from 5400' to 5453', hole stopped dusting @ 5453', wet hole, try to blow down & dry hole up, no returns, hole starting to get tight, set kelly back, drain water from dust retarding line. POOH, tight hole from bottom, work pipe out of tight hole up into 7" csg. POOH onto back, lay out hammer, hammer bit has come off hammer & has been left in the hole. Clean mud pits, thaw mud lines, waiting on fisherman & tools. Clean & refill mud pits, build mud volume to change back over to mud.

12-04-2004 Mix mud to load hole, 1<sup>st</sup> volume of mud pits. Mix 2<sup>nd</sup> volume of mud to finish loading hole, work at keeping ahead of equipment freezing up.

12-05-2004 Trip into shoe from 4039' to 5333', open hole. Wash down in open hole from 5333' to 5428', TOF @ 5428'. Circulate & condition gas cut mud to 60 vis, 8.9 wt, hole took 40+ bbl loss. Mix LCM @ 10 sxs per 100 bbls mud, circulate & condition hole w/ LCM, well static, no more losses. POOH, lay out bit, PU fishing BHA. TIH to fish for hammer bit.

12-06-2004 RIH w/ fishing BHA, break circulation & condition mud. RIH onto TOF @ 5428', work down on TOF. POOH, chain out onto bank, no fish caught. Change over shot size from 3 1/4" to 4 3/4" & RIH for 2<sup>nd</sup> try at hammer bit fish.

12-07-2004 RIH w/ changed fishing BHA, larger overshot, 2<sup>nd</sup> run in attempt to catch hammer bit fish. Kelly up, break circulation on fish @ 5428', work down on fish, POOH, chain out, no fish caught, lay out fishing BHA. PU open bit & RIH to 5391', 37' above fish. Kelly up to break circulation & wash down to TOF @ 5428', unable to break circulation, drill string is plugged off. POOH with wet string to unplug.

12-08-2004 POOH w/ wet string to unplug. RIH open ended to set cmt plug, break circulation every 10 stds. Circulate hole, RU BJ Services, set cmt plug from 5428' back to 5028', 400' to sidetrack off around fish, RD BJ. POOH 24 stds, strap DP, circulate DP clean. Slip & cut drill line, PU, strap & caliper DC's. PU bit, MM & RIH w/ BHA.

12-09-2004 RIH, break circ every 10 stands. RIH to 4050' - just out of 7" shoe @ 4039'. Slow circ @ 4050', WOC. RIH from 4050', tag TOC @ 4765'. Circ bicarb soda around for cement contamination. Dress cmt plug from 4765' to 4785' - good hard cmt. Side track off cement plug @ 4785' to 4805'.

12-10-2004 Side track off cmt plug from 4805' to 4815'. Hole took 50 bbl loss, circ & build mud volume, increase LCM from 5% to 8%. Continue to side track from 4815' to 4845', no cmt past 4845'. Chase hole from 4845' to 4942' - looking for CMT. Set kelly back, POH 4 singles, run 2 stands out of derrick - clean out derrick, kelly up. Chase hole from 4942' to 5085' to find cement, cement @ 5085', - dress off to 5107', hard CMT. Side track off cement plug from 5107' to 5190'.

12-11-2004 Orient & time drill from 5190' to 5249'.

12-12-2004 Orient & time drill from 5249' to 5318'.

12-13-2004 Slide oriented high side from 5318' to 5357', function pipe rams. Slide oriented high side from 5257' to 5369'. Change over mud pump #1 to mud pump #2. Slide oriented high side from 5369' to 5375', function pipe rams.

12-14-2004 Slide oriented high side from 5375' to 5385' – pump pressure indicated no cement. Pick up & shut down pump – slide from 5385' to 5391' without pump, no cement. Pick up & RIH with single connection, set kelly back for survey. Rig Wireline survey @ 5350' = ¾ deg – nothing accomplished on side track by time drilling. Circulate to trip out with side track BHA. POH – rack back in derrick, lay out mud motor & bit. Pick up & make up 1.5 degree whipstock BHA. Run in whipstock with stands out of derrick RIH picking up singles to replace DC's.

12-15-2004 RIH w/ 1.5° whipstock, PU single, tag fish @ 5426', whipstock @ 5350'. RU cmt crew. Cement whipstock in place, cmt from 5426' to 5000', 20 bbls cmt to cover 400' of hole. Shear off from whipstock to leave @ 5350'. POOH 10 stds, circulate drill pipe clean., RD & release cmt crew. Pull onto bank, still have the whipstock on the bottom of the drill string. Lay out whipstock. RIH w/ bit & and drilling BHA w/ bit & drilling BHA to cleanout. PU kelly & break circulation @ 4972'. CO hole from 4972' to 5428', treat as usual. 4972', treat cmt in mud. Circulate hole clean, treat mud. Blow kelly down & drain lines. POOH w/ clean out BHA.

12-16-2004 POOH onto bank w/clean out BHA, lay out BHA function blind rams. Pick up & make up whipstock BHA. RIH w/whipstock – tag bottom @ 5428', pick up off bottom 30'. Circ hole clean. RU cementers, run whipstock stinger to bottom @ 5428' – set whipstock @ 5350'. Cement whipstock in place @ 5350' w/20 bbls neat 15.5 ppg. Cement = 400' of cement from 5428' back to 5028'. Pull out 12 stands of drill pipe, circ pipe & hole clean of cement. POOH onto bank, lay out whipstock running gear. Pick up drilling BHA & RIH looking for cement.

12-17-2004 RIH – tag top of cement @ 4920'. Wash down & clean out cmt from 4920' to 5238'. W.O.C./ cmt too soft – needs to harden up more. Work on mud pumps while W.O.C. Ream & clean out from 5238' to top of whipstock @ 5350' – continue to clean out on whipstock to bottom of whipstock @ 5370'. Whipstock – drill new hole from 5370' to 5420'. Bit torqued up @ 5385' then smoothed out to 5414'. Bit started to torque again @ 5414' & quit drilling @ 5420'. POH for bit/ all 3 cones from the bit are lost in the hole. Wait on fisherman & fishing tools, pick up & make up fishing globe basket. RIH w/fishing globe basket to fish for cones.

12-18-2004 Run in w/fishing globe basket, break circulation, continue to run in w/fishing globe basket. Run in to 5410' w/fishing globe basket, break circulation, run down to 5419' – cones are @5420'. Chain out of hole – recovered 2 out of 3 cones. Lay out globe basket & pick up magnet & junk sub to fish 3<sup>rd</sup> & last one. Run in w/fishing magnet & junk sub to 3<sup>rd</sup> cone @ 5423'. Work magnet & junk sub on 3<sup>rd</sup> cone & bearings. Chain out w/magnet & junk sub, rig repair – lost #1 main rig engine. Continue to chain out on 1 engine. Attempt to kick #1 engine over – no go!! Down & finished until replaced, continue to chain out w/magnet & junk sub.

12-19-2004 Chain out of hole onto bank, recovered 3<sup>rd</sup> & last cone. Recovered bearing junk in junk sub. Lay out magnet – fishing BHA, function blind rams. Make up new bit & drilling BHA, run in to 5355'. Wash & ream from 5355' to bottom @ 5423'. Drill from 5423' to 5432' – back on junk!! POH – outer buttons on bit are broken off, bit does not look lit it has been on top of old bit. It is just barely possible that we are not far enough out with the whipstock & have caught the edge of the old bit?? Do not believe that this is the case. Pick up blade mill & make up mill BHA. Trip in with mill. Run in to 5430', kelly to break circulation, stand pipe is frozen – start thawing.

12-20-2004 Thaw out stand pipe to break circulation, break circulation, wash 2' down onto junk. Mill on junk from 5432' to 5437' Time mill on junk from 5432' to 5435'. When working the mill between 5432' to 5437' we would hang up & have to work free. I do not know how I managed to do it with a whipstock in the hole, but I am back down on the fish (hammer bit lost in hole). My best guess is that the formation is so rotten that I never sidetracked, but just washed down along side of the old hole and back onto the fish. After getting free we "time milled" on the fish hoping to cut it away to be able to run a bit past. The end result of this move was to completely knock the fish loose & down along side of the mill where we were unable to mill at all – lost 2' of hole 5437' back to 5435', length of the fish. POH onto the bank & lay out the mill. RIH service, run in open ended to cement.

12-21-2004 Run in open ended to set cement plug from 5435' back to 4800'. Circ hole clean to set cement plug. Pump 1<sup>st</sup> cement plug, set plug from 5435' back to 4800'. POH 12 stands, circ drill pipe & hole clean of cement. Pull back into casing @ 4000', wait on cement. Run in & tag 1<sup>st</sup> cement plug @ 4819', pump 2<sup>nd</sup> cement plug, set plug from 4819' back to 4200'. POH 15 stands, circ drill pipe & hole clean of cement. POH & rack back in derrick. Work on mud pump to fill hole, pull out laying down excess drill pipe.

12-22-2004 Run in open ended from casing – tag cmt @ 4037'. Pick up kelly & break circulation. Dress off cement from 4037' to 4280'. Circ hole clean, pull onto bank – rack back in derrick. Pick up & make up whipstock assembly. Run in with whipstock to 4280'. Circ hole clean, wait on cementers. Rig up cementers, set whipstock – top @ 4200'/bottom @ 4280'. Top of Huerfanito Bentonite @ 4401', cement whipstock in place, rig down cementers. Pull out 12 stands, circ drill pipe & hole clean of cement. POOH with whipstock running tool.

12-23-2004 Pull out with whipstock running tool. Lay out whipstock BHA. Rig on standby w/ crew @ 0001 hrs, 12/23/04. Rig will be down for repairs & upgrades until the 27<sup>th</sup> of December.

12-24-2004 Rig repair & upgrades, standby with crews.

12-25-2004 Rig repair & upgrades, standby with crews.

12-26-2004 Rig repair & upgrades, standby with crews.

12-27-2004 Rig repair & upgrades, standby with crews.

12-28-2004 Rig repair & upgrades, standby with crews.

12-29-2004 Rig repairs & upgrades. Standby with crews. Rig back on day rate @ 1230 hrs, 12/28/04. RIH w/ cmt dress off BHA. Tag TOC @ 3815'. Dress cmt plug from 3815' to top of whipstock @ 4190'. Circulate hole clean, TOO H w/ cmt dress off BHA, MU whipstock, kick off BHA & RIH.

12-30-2004 RIH to top of whip stock @ 4190', PU kelly & break circulation. Dump & clean cmt contaminate mud pits, build clean mud volume. Sidetrack off of whip stock from 4190' to 4210'. Sidetrack into new 6 1/4" hole from 4210' to 4250' with whip stock BHA. Circulate hole clean, POOH w/ whip stock/sidetrack lotion. PU build BHA, TIH to 4180'. Wash & ream through whip stock/sidetrack from 4180' to 4200'. Will finish washing & reaming down through sidetrack to bottom @ 4250'. Will drill ahead from 4250' with building BHA until a minimum of 6" of inclination in the hole is achieved.

12-31-2004 Wash & ream through sidetrack off of whip stock, clean up kick off to bottom @ 4250'. Drill new 6 1/4" hole (sidetrack off whip stock) from 4250' to 4618' – whip stock @ 4190' to 4210'.

01-01-2005 Drill 6 1/4" sidetrack from 4618' to 4675', TOO H, BHA is not working. RIH open ended to bottom @ 4675' to set cmt plug. Circulate hole @ 4675' to set cmt plug. RU cementers, pump cmt plug @ 4675' back to 3700', up in 7" csg, RD cementers. Pull 24 stds DP, pull back out of cmt. Circulate DP & hole clean of cmt. TOO H, LD excess DP, cut drilling line, cmt plug set from bottom @ 4675' to 3700', 339' up into 7" csg. Will dress the cmt plug down to 3800' to set the csg whip stock. This depth puts the whip stock in between csg collars & 239' above the 7" csg shoe @ 4039'.

01-02-2005 RIH, tag cmt @ 3742' with dress off BHA. Dress cmt plug from 3742' down to 3800', circulate hole clean. POOH, stand back in derrick. PU csg whip stock assembly, RIH, set whip stock top @ 3766', bottom @ 3782'. Cut starter window in whip stock from 3766' to 3768'. Circulate hole clean, set back & drain kelly, POOH with starter mill.

01-03-2005 Pull out with starter mill, change BHA to window & dress mill combo. RIH w/ mill combo to 3766' (top of whip stock). Kelly up & break circulation, mill out full window & dress clean from 3766' to 3774'. Sidetrack off whip stock from 3774' to 3781' into formation, circulate hole clean, POOH. Lay out mills & back load Weatherford. RIH w/ BHA to bottom @ 3781'. BHA = bit, near bit stable, 1 x 3 1/2" DP & 20 DC's, strong build BHA to move out into formation away from old hole. Work in & out of window to insure clean & clear passage, window is good. Drill side track from 3781' to 3820' into formation. Mud logger samples show 100% formation.

01-04-2005 Drill sidetrack from 3820' to 4054', top of whipstock in hole @ 4190'.

01-05-2005 Drill sidetrack from 4054' to 4232'.

01-06-2005 Drill sidetrack from 4232' to 4437'.

01-07-2005 Drill sidetrack from 4437' to 4500'. New hole is 34' from old hole assuming same direction per survey. POH for BHA change, strap out function blind rams – good test. Change out BHA, run into 4470', BOP drill – well secured in 2 minutes. Wash down from 4470' to bottom @ 4500'. Drill sidetrack from 4500' to 4545'. Blew kelly hose in two, down until new kelly hose gets here & is changed out.

01-08-2005 Drill sidetrack from 4545' to 4649', bit quit drilling – no penetration. Pull out for bit. Drill collars have come in two; 11 collars on the bank, 9 collars still in the hole. Waiting on fisherman & tools to arrive.

01-09-2005 Pull onto bank for bit, bit & 9 drill collars left in hole. Wait on fisherman & tools to fish for drill collars and bit, function blind rams. Run in with skirted mill to dress fish, top of fish @ 4368', break circulation. Dress top of drill collar to fish, mill is not acting right. POH for mill, mill & 2 more drill collars left in hole. Wait on new tool string to continue to fish.

01-10-2005 Wait on new tool string to continue to fish. Pick up & run with new fishing string, tag fish @ 4296' and swallow. Chain out with fish, pull out with fish. Re-dress fishing overshot, run in with 2<sup>nd</sup> fishing string run – tag fish @ 4368' & swallow. Chain out with fish, pull out with fish.

01-11-2005 Pull out with fish, LD fish & tools, back load. MU bit, bit sub, 9 DC's, RIH.

01-12-2005 Strap & caliper new DC's, PU & RIH w/new DC's, function pipe rams – good test. RIH 4506', kelly up & break circulation. Wash & ream from 4506' to bottom @ 4649'. Drill sidetrack from 4649' to 4761'.

01-13-2005 Drill sidetrack from 4761' to 4784', twist off in drill collars. Set kelly back & drain. Pull out of hole, 14 drill collars left in hole, twist off @ 4367' – same place as last twist off. Dog leg on inclination only @ 4367', IS 3.37 deg / 100', possible direction change at this depth has created severe dog leg. Wait on fisherman & fishing tools, offload fishing tools, strap, caliper – make up & run in hole. Run to top of fish @ 4367', work onto fish, chain out with fish. Continue to pull out with fish.

01-14-2005 Pull out of hole & lay out fish. Lay out fishing tools, lay out drill collars to be Tuboscope. Off load & strap 3 1/2" HWDP, back load fishing tools. Pick up & run in 3 1/2" HWDP, Tuboscope 4 3/4" drill collars & subs. Wait on 6 x new 4 2/4" drill collars, finish Tuboscope old drill collars, 14 x bad drill collars with stress cracks. Off load 6' x new drill collars & back load all old drill collars. Strap & caliper new drill collars, pull out & stand back 3 1/2" HWDP. Make up & run in with the new BHA, run in hole with drill string.

01-15-2005 RIH w/ drill string to 4678'. Kelly up and break circulation / wash and ream from 4678' to bottom @ 4784'. Drill sidetrack from 4784' to 4895'.

01-16-2005 Drill sidetrack from 4895' to 5034'.

01-17-2005 Drill sidetrack from 5034' to 5161'.

01-18-2005 Drill sidetrack from 5161' to 5262'.

01-19-2005 Drill sidetrack from 5262' to 5387', circulate hole clean to trip. Set kelly back & drain. POOH to change bit & BHA.

01-20-2005 Trip out onto bank for bit and BHA change. PU and test mud motor / PU6 x DC's. Run into 5329'. W&R from 5319' to bottom @ 5387'. Drill sidetrack from 5387' to 5495'. Had some tight hole on connections between 5440' and 5480'. Increased the pump from 250 GPM to 300 GPM to help hole cleaning.

01-21-2005 Drill sidetrack from 5495' to 5517'. Past fish @ 5428' / past BTM of old hole @ 5453'. Drill ahead from 5517' to 5674'. Drill 6 1/4" hole from 5674' to 5783'.

01-22-2005 Drill 6 1/4" hole from 5783' to 5938'.

01-23-2005 Drill 6 1/4" hole from 5938' to 6065'. Complete loss of circulation- 100 bbl. Loss mix LCM and re-build mud volume. Pull back into casing. Mix LCM and build mud volume lost another 80 bbls. Circulate-lost another 60 bbls. Re-gained full circulation @ 300 GPM. Run back to bottom @ 5990'.

01-24-2005 Drill from 6065' to 6116'. Service rig. Drill from 6116' to 6148'. POH for bit & mud motor change. Change out bit & mud motor. Run back into bottom @ 6148'. Service rig. Drill from 6148' to 6190'.

01-25-2005 Drill from 6190' to 6211'. Service rig. Drill from 6211' to 6305'. Service rig. Drill from 6305' to 6368'. Service rig. Drill from 6368' to 6376'. Circulate & condition hole. Pull 42 stands back to casing for wiper trip.

01-26-2005 Run back to bottom @ 6376' for wiper trip. Circulate & condition hole, 42 stand wiper trip/work hole smooth & free. Circulate & condition hole and mud raise vis to 70 sec, pull out-stand back in derrick and strap 56 stands of drill pipe, pull out & lay down drill pipe and BHA, run 4 1/2" liner.

01-27-2005 Run 4 1/2" liner to 2900'. Fill & attempt to circulate casing, casing is plugged off. Run into 2963' & PU Kelly, attempt to surge & break circulation in csg, casing remains plugged and unable to circ. Prepare to pull 4 1/2" liner, pull the 4 1/2" liner out of the hole & onto the bank-laying down. Run 4 1/2" liner 5 joints at a time and break circulation.

01-28-2005 Run 4 1/2" liner-run 5 stds of DP at a time & break circ, circulate hole clean, set hanger, ran 63 jts of 4 1/2" liner for a length of 2883.69'. Bottom of hole @ 6376', shoe @ 6374', top of window @ 3766', TOL @ 3492', overlap of 274'. RU cementers, cement 4 1/2" liner, no cement back, calculate cement @ 200' overlap in 7" csg = 74' below hanger. Displace cased hole from 6351' to surface w/fresh water, RD cementers, RU LD machine, LD remainder of DP, RD LD machine, ND BOPE & clean mud pits.

01-29-2005 ND BOPE & clean mud pits, release rig @ 0100 hrs, 01/29/05.