

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-01-05  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO

**751-88-0001**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**Ute Mtn. Ute**

7. UNIT AGREEMENT NAME

**N/A**

8. FARM OR LEASE NAME

**Ute Mtn. Ute 28**

9. WELL NO.

**14**

10. FIELD AND POOL, OR WILDCAT

**Verde Gallup**

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

**28-31n-14w NMPM**

12. COUNTY OR PARISH

**San Juan**

13. STATE

**NM**

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

**BBSE Corporation (303) 565-7773**

3. ADDRESS OF OPERATOR

**230 West North St., Cortez, Co. 81321**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

RECEIVED  
JUN 3 1991  
Bureau of Land Management  
Durango, Colorado

**Surface: 1284' FSL & 1112' FWL (SWSW) Bottom: SESW**

14. PERMIT NO.

**30-045-28213**

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

**5,505' ungraded ground**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. 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.) \*

Well history attached.

**TIGHT HOLE.  
KEEP ALL ATTACHED INFORMATION  
CONFIDENTIAL.**

RECEIVED  
JUN 10 1991  
OIL CON. DIV.  
DIST. 3

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

SIGNED

TITLE

**Consultant**

**5-29-91**

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

cc: BIA, BLM(3+2 for OCD), Clausen, G. Hammond, Stone

\*See Instructions on Reverse Side

NMOC

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.

10-2-90: MIRU Grace Rig 194. Spud 12-1/4" pilot hole @ 2330. Depth = 45'

10-3-90: Drlg. Run 5 surveys. Depth = 228'

10-4-90: Run surface casing (5 jts 13-3/8" 61# J-55 ST&C + insert float w/ auto fill + 1 jt 13-3/8" 61# J-55 ST&C + Halliburton cement guide shoe. Casing landed @ 244' KBM or 3.18' above KB. RU & circ casing 5' of fill. RU and cmt w/ 290 sx Class B w/ 3% CaCl + 1/4#/sk Flocele. Good returns throughout. Circ 17 bbl (80 sx) cmt to surface. Bump plug 200# over. Float held. WOC 4- 1/2 hr. Depth = 250'

10-5-90: Cut off 20" conductor pipe. Clean cmt around 13-3/8" casing. Weld on test casing head. Re-weld crack. Test weld to to 1200 psi. Held OK. Nipple up 13-3/8" spacer spool, crossover spool, & 12" 3000# Hydril. Test kelly valves to 3000 psi - held. Test choke manifold & Hydril. Hydril would not hold. Two valves on choke leaking. Change valves. Depth = 250'

10-6-90: Test choke. Could not get casing & Hydril to hold. Lost 280 psi in 11 min. BLM waived test. Drlg cmt. Tagged cmt @ 198'. Drlg. Depth = 280'

10-7-90: Drlg tight section. Run 5 surveys. Depth = 790'

10-8-90: Drlg through more tight sections. Repair rig. Run 1 survey. Depth = 1002'

10-9-90: Drlg. Run 4 surveys. Service rig. Depth = 1338'

10-10-90: Drlg. Run 3 surveys. Change bit. Depth = 1514'

10-11-90: Drlg. Run 2 surveys. Depth = 1763'

10-12-90: Drlg. Run 3 surveys. Service & repair rig. Depth = 1948'

10-13-90: Drlg. Twist off jt. Fish. Repair rig. Depth = 2020'

10-14-90: Drlg. Run 3 surveys. Service & repair rig. Depth = 2303'

10-15-90: Drlg. Run 4 surveys. Depth = 2644'

10-16-90: Drlg. Pipe parted. Fish. Depth = 2713'

10-17-90: Drlg. Run 3 surveys. Pin twisted off IBS on short DC. Wait on fish tools. Depth = 2948'

10-18-90: Fish. Drlg. Run 2 surveys. Depth = 3094'

10-19-90: Drlg. Run survey. Replace pipe and DCs. Depth = 3197'

10-20-90: Drlg. Run 4 surveys. Depth = 3560'

10-21-90: Drlg. Run 2 surveys. Make up mud motor, MWD, etc. Depth = 3725'

10-22-90: Drlg. KOP 3725'. Run 4 surveys. Directional drill 3969' to 3999'. Depth = 3999'

10-23-90: Drlg. Change MWD sensors. Run 5 surveys. Depth = 4264'

10-24-90: Drlg. Repair rig twice. Log w/ Halliburton. Depth = 4307'

10-25-90: Drlg very tight. Repair rig. Depth = 4392'

10-26-90: Drlg. Run Welex DIL log. Gallup top 4296' TVD & 4422' MD. Depth = 4435'

10-27-90: Run 81 jts 9-5/8" 40# K-55 LT&C + 9-5/8" Howco DV tool + 4 jts 9-5/8" 40# K-55 LT&C + 19 jts 9-5/8" 40# S-95 LT&C + 9-5/8" Howco float collar + 1 jt 40# S-95 LT&C + 9-5/8" Howco float collar. Used 12" x 9-5/8" turbolizer on each of last 15 jts. Had cmt basket at 930' & 3445'. Had 14 additional centralizers on casing. Cmt lower stage w/ 10 bbl mud flush + 10 bbl water + 200 sx Class B + 1/4#/sl Flocele. Good returns throughout. Drop dart & open DV tool w/ 900 psi. Circ w/ rig pump 4 hrs. Cmt upper stage w/ 1600 sx Howco Lite + 10#/sk gilsonite. Good returns throughout. Had 52 bbl (140 sx) to surface. DV tool closed @ 1600 psi. Depth = 4435'

10-28-90: NU & hook-up to drive both mud & air. Repair BOP. Hook up blooie line. Depth = 4435'

10-29-90: Drlg DV tool & cmt test csg. TIH & tag cmt. Drill float collar & cmt to 4432'. Circ hole, displace mud w/ KCl water, RU compressor, unload hole, install rotating head. Depth = 4475'

10-30-90: Drlg. Work pipe, clean hole, well unloaded, cleaned up. Install 3rd compressor. Keeps steady flow of air for returns. Depth = 4658'

10-31-90: Drlg. Change out mud & double bent sub motor. Work stuck DP. Survey. Depth = 4834'

11-1-90: Lay down MWD, motor, sub. Ream to bottom & circ. Run Halliburton logs. Depth = 4834'

11-2-90: Service rig & BOPs. Ream out tight spot @ 4711'. Unload hole. Rotating & sliding while drlg. Depth = 5020'

11-3-90: Drlg. Service rig & BOPs. Change BHA, MWD tools, & motor. Depth = 5216'

11-4-90: Drlg. Service rig, BOPs, & MWD battery. Depth = 5338'

11-5-90: Drlg. Blow hole & try to unload same. Hole only partially unloaded. 600 psi fell to 520, normal is 300. Work tight hole between 4700' & 4800'. Depth = 5678'

11-6-90: TOH. Lay down BHA & MWD tool. Latter had come apart. TIH to csg shoe. Unload well & blow csg dry. Finish TIH. Ream from 4700' to 4760' and 5220' to 5470'. Blow well w/ air to dry hole. Circ pressure dropped from 240 psi to 150 psi. Depth = 5678'

11-7-90: Lay down DP & HWDP. Nipple down rotating head, spools, & BOPs. Install blanking flange on csg spool. Rig released @ 1900.

11-13-90: MIRU two 400 bbl frac tanks, test production unit, pipe racks, catwalk, 5700' of 2-7/8" drill pipe, & Pool Well Service completion rig.

11-14-90: RU Pool Rig #533. NU 10" double gate 5000 psi hydraulic BOPs. Reset frac tanks.

Move in 230 bbl condensate from UMU 28-43 & 27-22Y. TIH to 1200'. Hold steady gas blow while TIH. SI well for night.

11-15-90: Open valve & bleed off pressure. Valve leaked, no measureable pressure. RIH w/ 145 jts. RU nitrogen service & unload csg w/ 50,000 scf. No fluid unloaded. Continue in hole w/ 38 more jts. Tag bottom at 5678' (TD). Pulled up to 5658' & unloaded hole. No fluid return. Pumped 100 bbl treated condensate & filled the open hole. Pulled DP back to the csg shoe & SWIF night.

11-16-90: SI DP pressure 10 psi. HU nitrogen service to break down Verde Gallup. Pressure test pumps & lines to 3000 psi OK. Used N2 & condensate to break down formation as follows:

17,000 scf in press 175 psi @ 2000 scfm

40,000 scf in press 310 psi @ 2000 scfm

50,000 scf in press 500 psi shut down

start 70 quality foam (3000 scf N2/bbl) dn DP 1/2 bpm fluid + 1500 scf N2

<u>Rate (bbl/min)</u>	<u>Gallons Pumped</u>	<u>psi</u>
0.5	144	540
0.5	225	570
0.5	327	622
0.5	425	662
0.5(.7)	530	710
0.6	586	712
0.6	667	744
0.7	817	800
2.6	965	950
2.5	1280	1090
2.5	1680	1050
0.6	1717	949
0.6	1970	1103
0.6	2120	1182
2.4	2350	1250
2.4	2556	1150
2.4	3045	1120
1.6	3308	1080
1.6	3454	980
1.5	4090	1025
1.5	4250	1044

increase rate to 2.5 bpm 1500 scfm/N2

slow fluid rate to 0.6 bpm

increase rate to 2.4 bpm, slow N2 to 1000

slow rate to 1.6 bpm & 500 scf N2

shut down: SIP=930 psi; 5 min=922 psi; 10 min=917 psi; 15 min=911 psi

job total = 165,000 scf N2 + 100 bbl condensate

Flowed well back through separator to pit, saw no fluid. SWIF night.

11-18-90: Bled off well to pit w/ no measurable pressure. RU to run full wave sonic & gamma ray logs. Made up log tool on bottom of DP. TIH to 4220'. Ran log w/ string down through DP, but could not pass 3000'. Re-ran and logged from 3910' to 5652'. SWIF night.

11-19-90: TOH w/ DP & log tools. Repair rig. PU 9-5/8" compression packer and TIH to 1500'. Check packer. SWIF night.

11-20-90: Set pkr @ 4300'. RU N2 service. Broke dn formation with N2 & condensate as follows:

<u>Rate (bbl/min)</u>	<u>psi</u>	<u>Gallons</u>
1.5	0	Load hole w/ condensate. Hole full on vacuum. Start N2 rate 1500 scfm. Start condensate 1/2 bpm.
5.3	0	1839
0	0	1843
0.5	600	1850
0.5	674	1900
0.5	675	2000
0.5	688	2200
0.5	680	2309
		Csg pressured. Shut dn. Resume N2 @ 1500 scfm. Start condensate 1/2 bpm.
0.5	1587	97
2.0	1687	265
1.9	1524	600
1.9	1510	1000
2.0	1480	2000
2.7	1755	2350
2.8	1774	2500
2.9	1780	3000
0.8	1560	3025
0.8	1570	3100
0.8	1635	3200
0.8	1652	3400
0.8	1650	3500
2.6	1832	3700
2.6	2008	3885
2.9	2058	4000
2.8	2082	4200
2.8	2098	4500
2.8	2102	4750
2.9	2104	5000
0.8	1778	5050
0.8	1855	5200
0.8	1838	5400

Flowed well for 1.25 hr. Pressure down to 40 psi. Flowing in heads. SI 15 min. to RD. Reopen well. Flowed 15 min. & died. Fluid too foamy to gauge. SWIF night.

11-21-90: SITP 380 psi. Mostly natural gas foamy fluid after 15 min. Flowed 1 hr & died. Made 7 swab runs @ 1 hr intervals. No fluid after 2nd run until 6th run. Well would gas for 20-30 min. after swab. After 6th run, well flowed foamy fluid for 20 min. 7th run the same. Daily fluid recovery = 16.75 bbl. SWIF Thanksgiving.

11-24-90: 63 hr SI tbg pressure = 800 psi. Blew to pit for 15 min., then switched to tank. Flowed 1 bbl fluid in 30 min & died. Made 3 hourly swab runs. No fluid. Released pkr & swabbed annulus load. Recover 1.5 bbl condensate. SWIF Sunday.

11-26-90: 38 hr SI tbg pressure = 100 psi. Bled csg. to reserve pit. No fluid to surface. Made 1 swab run to 4400', but brought back no fluid. Unloaded hole w/ 44,000 scf N2, bring back 48 bbl fluid. Lay dn 1 jt & unload hole w/ 87,000 scf N2. Brought back 30 bbl of fluid from TD. SWIF night

11-27-90: SICP = 100 psi. SITP not enough to gauge. Made 6 swab runs. No fluid back. SWIF night.

11-28-90: SICP = 100 psi. SITP = 0. RU & swab fluid level @ 4150' first run (pulled up from 4350'). Recover small amount of fluid. Made 2nd run after 1 hr w/ same results. Mostly load fluid. Bled off csg pressure. Move in frac tank & condensate. SWIF night.

11-29-90: SICP = 100 psi. SITP = 0. Bled off. Set fullbore pkr @ 4381 w/ 20,000 psi tension. RU and make 5 swab runs @ hourly intervals. Pulling from 4375', but had no fluid recovery. Milked last 2 runs, but not enough fluid to seat cup. SI well till frac.

12-1-90: 39.5 hr SITP = 380 psi. Bled tbg to pit. No fluid to surface. Made 1 swab run to 4350' & brought back trace of fluid. Rigged dn swab. RU fluid & N2 services. Use 70 quality foamed condensate as a carrier, 20/40 Brady sand as a prop, & benzoic acid flakes as a diverter. Pump time 79 min. SIP=3500 psi. 5 min.=1895 psi. 15 min.=1435 psi. Job used 38,412 gal. of condensate + 42,500# 20/40 sand + 1.77 mil. scf N2. Several breaks during job as diverting agent hit. Job did screen off before total volumes were pumped. 3.5 hr SITP=1490 psi. Opened well to flow to frac tanks through 12/64" choke. Fluid to surface in 35 min. Changed choke to 16/64" after 50 min.. Flowe well 11.75 hr on this setting. At 0700 flowing well back on 24/64" choke w/ 600 psi. Total hours flowed back = 12.75. Total recovery = 170 bbl fluid (i.e., 13.33 bbl/hr). Total fluid load to recover = 915 bbl.

12-2-90: Flowed well on 24/64" choke until 1000. Tbg @ 380 psi. Opened well through separator. Flooding unit opened to tank. Pressure dropped to 150 psi & well started making sand. Put well back on 24/64" choke 1030-1300. Tbg pressure 180 psi. Changed to 32/64" choke.

<u>Time</u>	<u>Pressure</u>	<u>Choke</u>	<u>Hourly Fluid</u>	<u>Remarks</u>
1300	200 psi	34/64"	10	Change to 32/64 @ 1300
1400	140	32/64	10	
1500	120	32/64	10	Change to 48/64
1600	60	48/64	10	
1700	40	48/64	3	
1800	10	48/64	3	Opened full

Flowed full open night. Made 67 bbl, mostly load fluid. Very foamy. Very little fluid last 2 hrs.

12-3-90: Continued flowing full open to tank. Flowed 1.67 bbl/hr from 0700-1000. Flowed 13.33 bbl from 1000-1100. Flowed 3.34 bbl/hr from 1100-1600. Flowed 33.33 bbl in 14 hr night to tank or 2.38 bbl/hr. Less N2.

12-4-90: Continued flowing well to tanks on full open 2" line. Made 7.51 bbl from 0700-1100. Made 14.17 bbl from 1100-1700. Oil sample caught @ 1100 darker colored 48° API. Frac fluid gravity 52° API. Left open night on 2" line. Made 6.68 bbl in 14 hr.

12-5-90: RU & swab 2 runs from 4350'. Could not tell fluid level because of highly gas cut stringers throughout 1st run. Fluid level @ 3400'. Second run still highly gas cut. Recovered 20 bbl fluid of condensate & oil mix w/ gas blow. Bled off csg pressure. Released pkr & TOH. Well gassing throughout. Left pipe & csg open to tank night.

12-6-90: Well made fluid night. RU & made 1 swab run. Appeared to be fluid stringers, but did not recover fluid. TIH. Take wt @ 4450'. RU N@ truck & swivel. Unload fluid and cleaned out to 4782'. Got only small amount sand. Hole made fluid while making connections. Hole pulled tight if not

moving pipe. Pressured up if down over 15 min. PU into casing. Unloaded 15 bbl fluid to tank. About 10 bbl fluid went into pit as a mist. Most fluid had dark green color. Csg open to tank overnight.

12-7-90: Bled down DP pressure. Csg was open to tank overnight, but no fluid. Unloaded sand up DP. TIH to 4450'. RU N2 and start cleaning. Well unloaded oily mud & condensate. Worked through tight spot @ 4900'. Ran free to 5200'. Blew hole - no recovery. Ran free to 5678'. Blew hole & had oily mud & oil. While POH, tight spot @ 5250'. Blew well, pipe freed. Continued POH. Pipe caught @ 4900'. Blew & came free. Unload slug of oily mud & oil. Pulled into csg @ 4435' and SI csg overnight. Let DP blow overnight. Unloaded sand when starting to blow dn.

12-8-90: SICP = 140 psi. DP open to tank overnight. Blowing gas, no fluid. RU N2 to csg & tried to reverse circ. Pressured up. DP stuck. Tried to work loose. Bled off csg pressure. Hooked N2 to DP & pressured up to 1200 psi. Began circ again. DP unloading sand. Pressured csg to 1000 psi. Would not circ. DP trying to stick. While freeing DP, stripping rubber blew out. Bled off csg. Hooked to DP and established circ. Freed DP. Changed stripping rubber. POH w/ 6 jts DP. DP would blow almost dry sand w/ some wet slugs. Pulled DP to 4100'. Completely free. Hooked N2 to csg & pressured to 500 psi. Would not circ. Hooked to DP. Pressured to 1200 psi. DP plugged. Bled off DP & csg. Used 290,000 scf N2. Pulled DP to 3720'. SWIF weekend.

12-10-90: SICP = 350 psi. SITP = slight blow. TOH w/ DP. Bottom 9 jts full of sand w/ small amount of fluid - mostly load condensate. Cleaned sand out of power tongs. Picked up center jet bit & TIH to 3720'. Rechecked first 10 stands for plugging while tripping. SWIF night.

12-11-90: SITP = 150 psi. SICP = 200 psi. Blow dn tbq. Csg did not chnage. RU N2 & pressure csg to 1000 psi to start DP unload. Unload condensate highly contaminated w. fines. Very thick. After blowing, clean. RIH 6 stands to 4105' & unloaded hole. Has to pressure csg to 1200 psi to unload hole. Made heavy fines cut oil w/ trace of sand. Let well blow dn. Continued RIH. Tagged sand @ 4115'. Began circ out sand. Cleaned out to 4165'. Started to make connection when well started to unload sand. Resumed circ @ 4135'. Pressured to 500 psi on csg. DP trying to plug off. After clearing, DP started to wash dn to 4165' and DP plugged again. Pressured csg to 900 psi. DP only slight blow. SD N2 truck. Left well pressured overnight. Onsite held with BIA & Tribe for pipeline.

12-12-90: Found jt of DP, swivel, kelly hose, & surface line plugged w/ sand. Clean out sand. Began blowing dn DP DP to pit. Unloaded sand. Picked up jt of DP and cleaned out to 4165' small amount of sand. Blwo dn pressure. Laid dn 2 jts DP. Ran 1 stand DP. Picked up kelly jt & began cleaning out to 4195'. Trying to plug @ 4180'. Pressured annulus to 1200 psi. Could not unplug DP. Bled annulus to 400 psi. Laid dn 1 jt DP. Hooked up to DP w/ N2 and blew out plug w/ 1000 psi. Rehooked to csg and established circ. Resumed cleaning out sand. Went 10' before hole appeared to start unloading. Pulled up & unloaded heavy slugs of sand. Began cleaning dn & made 5' when hole heaved DP. Pressured csg to 450 psi. Hooked to DP & pressured to 600 psi to unplug DP. Resumed clean out. Made 2' & DP plugged again. Hooked up to DP & pressured to 1200 psi. Could not unplug. Began blowing dn csg to pit and started to POH w/ DP. Top 6 jts pluggd solid w/ sand & fines. Laid dn 20 jts DP. RU N2 to DP & pumped 1500 scf for 15 min. to find more plugging. None found. SWIF night.

12-13-90: SITP = 300 psi. SIC = 275 psi. Bled off pressure. TIH to 3720'. RU pump truck & load hole w/ 298 bbl condensate. Established good circ. RIH to 4140'. Tagged sand. RU & began reverse circ sand. Circ sand out to 4255'. Having to rotate. Fell thorough & washed out to 4280'.. Hitting more solid sand. Rotated to 4290'. Free to 4320'. Solid to 4325'. DP plugged & pressured csg to 1500 psi. Bled off pressure. Hooked to DP. Established circ. Resumed reverse circ. Circ hole clean.

Cleaned flat tank of large amount of sand & fines. Refilled flat tank. SWIF night. Archaeological report for pipeline submitted to Albuquerque BIA.

12-14-90: No pressure on tbg or csg. TIH to 4320'. Continued reverse circ sand. Plugging pipe twice to 4350'. Circ large amounts of sand to 4440'. After 4450' started plugging & getting shale in sand w/ more formation fines. Cleaned out to 4480'. Fluid carrying large amounts of fines. Shut down & cleaned pit. Circ hole clean. Pulled 10 stands. Lost 10 bbl while circ. SWIF night.

12-15-90: No tbg pressure. Csg on slight vacuum. Cleaned sediment out of flat tank. TIH & began reverse circ @ 4470' to clean fines. Took 20 bbl to load hole. Continued reverse circ out sand from 4480' to 4510'. Got large pieces of formation. Plugging problems every 1' to 2' less frac sand & fines. Appears hole may have caved in or sloughed. Cleaned out to 4520'. Circ bottoms up. TOH. Came wet after 5 stands. SWIF night.

12-17-90: No tbg or csg pressure. Finished TOH. Bit & bit sub plugged w/ shale & 1st jt full of sand. Picked up 6-1/4" bit. Air dryer repaired. TIH to 4505'. RU power swivel & pump truck. Began reverse circ & drilling dn. Had less than 5' of fill. Drilled slow to prevent plugging w/ shale. Cleaned out to 4535'. Circ hole clean. Lost 40 bbl fluid while drilling. Pulled 3 stands. SWIF night.

12-18-90: No tbg or csg pressure. TIH w/ 3 stands to 4535'. No fill. RU drilling equipment & pump truck. Continued cleaning out sand & shale. Reverse circ. Cleaned out 4535'-4630'. Recovered sand, shale. Plugging pipe if taking more than 2-3" at a time. Lost 50-60 bbl during day. Circ clean.

12-19-90: No tbg or csg pressure. TIH w/ 5 stands DP to 4630'. Began reverse circ cleaning out sand & shale. Cleaned out 30' to 4660' in 1.5 hr. Sand & shale. On 2nd jt shale increasing very slow drilling from 4670'-4675'. Worked 3 hrs cleaning out 5' of mostly shale + small amounts of sand. Plugging every few min. Pump dn DP twice to unplug. First took 600 psi. Could not unplug second time. Pressured to 1000 psi. Rehooked csg. Pressured to 875 psi formation. Took fluid (3bpm). Slight returns. Could not unplug. Rigged dn power swivel. Laid dn 1 jt DP & pulled 5 stands into csg. Hooked pump truck to DP & pressured to 2100 psi. Could not unplug. POH w/ 22 stands. SWIF night.

12-20-90: No tbg or csg pressure. Finished TOH w/ DP. Bottom 2 jts plugged w/ shale & sand. Bit sub not plugged. Cleaned out pipe. TIH to 4415'. RU N2 truck & displaced load condensate out of csg. Pressured to 1000 psi. Recovered about 200 bbl, highly foamed. Bled csg to 500 psi. SWIF Xmas.

12-26-90: SICP=500 psi. SIDPP=400 psi. Bled off DP. Fluid level @ 800' on first run. Swabbed (12 runs) for 5 hrs & recovered 53 bbl condensate. Ending fluid level 1500'. SWIF night.

12-27-90: SITP=0. SICP=300 psi. Began swab w/ fluid level @ 1800'. Level dropped to 2500' after recovering 56.5 bbl load fluid. Level came up to 2000' on next run & began unloading. Fluid had 10% fines. Recover 17 bbl fluid in 1.5 hr. Flowing switched to tank & left open overnight to blow dn backside nitrogen. SWIF night.

12-28-90: Csg pressure = 50 psi. DP dead. Made 8.5 bbl fluid overnight. Swabbed & found level @ 2700'. Level swabbed down to 3500' after 6 runs in 2.5 hrs. Csg pressure up to 200 psi. Well trying to flow after swabs. Fluid highly gas cut. Making 1 run/hr for 5 hrs. End fluid level @ 4000'. Recovered 1 bbl fluid/hr last 3 runs. Had 30-45 min. blow after runs. Csg pressure dropped to 100 psi at end of day. Less fines throughout day, 2% by end. Fluid color darkened during day. SWIF night.

12-29-90: SICP=200 psi. DP light blow. Swab fluid level 3100'. One run/hr for 8 hrs. Level



below 4000' by end of day. Recovered 5 bbl fluid on first 2 runs and 3 bbl on 3rd run. Blew heavy mist for 45 min. after 3rd run. Next runs flowed 30 min. afterwards. Last 3 runs made total of 2 bbl with blow weakening. 1% fines + 3% mud. Csg pressure dropped to 100 psi. SWIF weekend.

12-31-90: SICP=300 psi. SIDP=0. Fluid level @ 3000' on first swab. Made 2 swab runs to the bit @ 4415'. Well kicked off & flowed 5 bbl of fluid in 1.5 hr dropping csg pressure to 100 psi. Made one swab run/hr for next 5 hrs dropping level below 4100'. Recovered no measurable fluid in last 2 runs. Total fluid recovered for day = 13.5 bbl w/ 95% oil, 3% mud, & 2% fines. SWIF holiday.

1-2-91: SICP = 300 psi. SIDP=0. Open DP to tank. Well unloaded 5 bbl oil in 1.5 hr. Made 1 swab run, fluid scattered throughout. Well flowed 15 min. Recovered 2 bbl fluid. Bled csg pressure to tank. Rigged dn swab. Laid dn DP, bit sub, & bit. SWIF night.

1-3-91: SICP=150 psi. Bled csg dn to tank. Cleaned & strapped 136 jts 2-7/8" 6.4# tbg and rabbit in 59 jts of new 2-7/8" tbg topped off w/ 77 jts of used 2-7/8" tbg. Landed tbg in the donut open ended w/ bottom @ 4419' & seating nipple @ 4387'. NU tbg head. RU to swab. Made 1 swab run to the seating npl. Recovered no fluid. Left well open to tank overnight.

1-4-91: Weak blow, but no fluid overnight. Made 1 swab run to seating npl. Found no fluid level & recovered no fluid. SI. Release rig & frac tank, but roads & weather too bad to move out.

1-17-91: Tank level measured @ 7'2-3/4". Tbg pressure = 10 psi. Csg pressure = 750 psi. Opened @ 1300 with a weak blow.

1-18-91: Tbg pressure measured @ 5 psi. Csg pressure = 752 psi. BHT = 134°F.

1-22-91: Tank level measured @ 7'2". SITP & SICP = 750 psi. Flowed 20 bbl to raise level to 8'2". Ending pressure 200 psi.

1-28-91: Measurements taken. SITP = 650 psi. SICP = 700 psi. Flowed.

2-1-91: Measurements taken. SITP=560 psi. SICP=575 psi. Fluid level 9'8".

2-4-91: Measurements taken. SITP=550 psi. SICP=560 psi. Fluid level 9'9".

2-11-91: Measurements taken. SITP=610 psi. SICP=610 psi. Fluid level 9'10-1/2".

2-14-91: Measurements taken. SITP=470 psi. SICP=490 psi. Fluid level 9'10".

2-18-91: Measurements taken. SITP=510 psi. SICP=510 psi.

2-20-91: Measurements taken. FTP=0 psi. FCP=0 psi. Fluid level 10'1".

2-22-91: Measurements taken. FTP=0 psi. FCP=0 psi. Fluid level 10'1". SI 1330.

2-26-91: Measurements taken. SITP=430 psi. SICP=440 psi. Fluid level 10'.

3-4-91: Measurements taken. SITP=490 psi. SICP=490 psi. Fluid level 10'. FTP=0. FCP=150 psi.

3-11-91: BIA Albuquerque office approves archaeological report for proposed pipeline.

4-1-91: Blade access road.

4-8-91: Blade location.

5-2-91: Hearing held by NM Oil Conservation Div. to review request to plug back and redrill.

5-13-91: MIRU Big A rig. Lay line to tank. SITP=740 psi. SICP=740 psi. Blew well dn to tank - level 8'10". RU hot oil truck. Pump 100 bbl 3% KCl water dn csg to kill well. Npled dn wellhead. NU stripping head. TIH to 4676'. No fill. TOH. Strapped. PU plug catcher assembly & TIH to 4678'. Pumped 15 bbl KCl water, 100 bbl mud flush, & 15 bbl fresh water spacer. Pump densified cmt @ 17.5 ppg. Had 13.3 bbl (80 sx) slurry pumped when tub & lines plugged and put water to bulk truck. Slurry appeared to fles. Tried to unplug line to truck. Dispalced cmt w/ 3% KCl. Pressured 3 bbl early & sheared plug catcher. POH w/ tbq. Sent in plug catcher to be redressed. SDFN.

5-14-91: TIH w/ 2-7/8" tbq. Tag cmt @ 4650' KBM (30' fill). TOH & pick up plug catcher. TIH to 4650'. RU & pump 25 bbl 3% KCl water, 10 bbl mud flush, & 15 bbl fresh water spacer. Mix & pump 150 sx Class 0 cmt w/ 2% KCl + 0.75% CFR2. Mixed @ 17.5 ppg. Dropped plug & washed up pump & lines. Dispalced w/26.75 bbl 3% KCl water. Shut dn. POH w/ 10 stands tbq. Pressured to 1800 psi & sheared plug catcher. Pumped 5 bbl to flush. TOH & laid dn plug catcher. SDFN.

5-15-91: TIH w/ 2-7/8" tbq. Tagged cmt @ 4410' KBM (25' in casing). RU to lay dn tbq. POH laying dn 2-7/8" tbq. NU wellhead. Rigged dn & released rig.

5-24-91: MIRU Aztec drill rig.

5-28-91: Begin redrill.