

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	NOV 2- '89	6. LEASE DESIGNATION AND SERIAL NO. LC-069108
2. NAME OF OPERATOR Bettis, Boyle & Stovall	O. C. D. ARTESIA, OFFICE	7. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046		7. UNIT AGREEMENT NAME Poker Lake Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 660' FNL & 1980' FWL, NE/4 NW/4 Unit Letter C		8. FARM OR LEASE NAME
14. PERMIT NO. Dated 3/14/89	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3349.3 GR	9. WELL NO. -71-
		10. FIELD AND POOL, OR WILDCAT Wildcat-Morrow
		11. SEC., T., R., W., OR BLK. AND SURVEY OR AREA Sec. 33, T23S, R30E
		12. COUNTY OR PARISH Eddy
		13. STATE NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
ABANDON OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		

(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 and 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.)

06/06/89 - 08/11/89 - Complete attempted completion report attached.

08/12/89 - well shut in pending investigation of further completion procedures.

RECEIVED FOR RECORD

Adm

OCT 31 1989

CARLSBAD, NEW MEXICO

RECEIVED
OCT 19 10 40 AM '89

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

SIGNED

Jim Hizon

TITLE

Production Asst.

DATE

10/17/89

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

- 6-11-89 TRIP OUT HOLE W/TBG. & PKR. PACKER OK, LAYED DOWN GUN ASSEMBLY, RAN BAKER 5 1/2" CSG. SCRAPER. SCRAPED CMT. FROM TOP OF LINER. WORK OVER 120' INTERVAL, TRIP OUT OF HOLE W/157 STANDS OF TBG. SHUT DOWN @ 6 PM.
DWC:\$2365. CWC:\$28,827.
- 6-12-89 FINISHED TRIP OUT W/SCRAPER. RAN VANN GUN ASSEMBLY, PAKER, RECEPTICLE & TBG. PACKER STOPPED @ 10,959 1/2" KB, 7.5' DEEPER THAN ON 6/10/89. WORKED WITH PACKER 1.5 HRS. COULD NOT GET THRU LINER HANGER. SHUT DOWN 4:30 PM.
DWC:\$4926. CWC:\$33,753.
- 6-13-89 POOH W/TBG. & PACKER, BOTTOM OF PACKER SEVERELY MARKED WITH UNIFORM 1/4" CIRCLE ON BOTTOM FACE-NO MARKS ON OD OF PACKER, LAY DOWN PACKER, LAY DOWN GUN ASSEMBLY, PICK UP 4 5/8" TAPERED MILL, 4-3 1/8" DC'S, TRIP IN HOLE TO 10,952', PICK UP POWER SWIVEL & MILL FROM 10,952' TO 10,968' IN 1 HR. PROBABLY CEMENT. MILLED FROM 10,968' TO 10,971' IN 3 HRS. WITHOUT MILLING THRU OBSTRUCTION. SHUT DOWN @ 7 PM.
- 6-14-89 MILL WITH 4 5/8" TAPERED MILL FROM 10,971' TO 10,975' IN 2 HRS. MILL FROM 10,975'-10979' IN 45 MIN., RAN MILL TO 11,011' WITH NO DRAG. PICK UP TO 20' ABOVE TOP OF LINER HANGER. ROTATED THROUGH HANGER @ 80 RPM'S SEVERAL TIMES WITH NO TORQUE. TRIP OUT OF HOLE WITH TUBING. LAY DOWN COLLARS & MILL. SHUT DOWN @ 3.30 PM.
DWC:\$3850. CWC:\$41077.
- 6-15-89 PICK UP VANN GUN, BAKER PAKER AND RECEPTICALE, TRIP IN HOLE W/435 JNT. TBG., PACKER STUCK @ 14,100', PULL LOOSE W/28,000# OVER STRING WEIGHT, COULDN'T GET THRU TIGHT SPOT. POOH W/90 STANDS TBG., SHUT DOWN @ 6PM.
DWC:\$5681. CWC:\$46,748.
- 6-16-89 FINISHED TRIP OUT OF HOLE W/TBG., LAY DOWN PACKER & GUNS, BOTTOM 2' OF PACKER BODY HAD VERTICAL SCRAPES & CUTS. PICK UP 4 5/8" TAPERED CUT RIGHT MILL, BUMPER SUB, JARS, 4- 3 1/8" DRILL COLLARS & TRIP IN HOLE W/340 JNTS OF TBG. TO OBSTRUCTION @ 11,154'. MILL FROM 11,154' TO 11,190' 2 1/2 HRS. FROM 11,415' TO 11,430' 1 1/4 HRS., STILL TIGHT 11,430', PULL MILL ABOVE LINER TOP. SHUT DOWN FOR NIGHT @ 6 PM.
DWC:\$4231. CWC:\$50,979.
- 6/17/89 MILL FROM 11,430 TO 11,458' (3 HRS.)
MILL FROM 11,561 TO 11,595' (3-1/4 HRS.)
MILL FROM 11,991 TO 11,998' (1/2 HR.)
RAN MILL TO 14,268' W/NO TIGHT SPOTS. PULLED BACK TO 14,074' AND ROTATED DOWN TO 14,204' - 8 TO 10 PASSES ON EACH JOINT. TIH TO BTM. @ 14,775', CIRCULATED AND WASHED TO 14,779', DISPLACED ACIDIC ACID W/2% KCL PACKER FLUID. SD @ 7:00 P.M.
DWC - \$4,754.00 CWC: \$55,733.00

6/18/89 PULL TUBING TO 14,525', SPOT 250 GAL. OF 10% ACIDIC. P.U. TO 14,363' AND REVERSED OUT EXCESS ACID. TOH AND LD TOOLS AND MILL. P.U. VANN GUNN, BAKER LOCKSET AND 201 JTS. OF 2-7/8" UPSET. TESTED TO 10,000# ABOVE THE SLIPS.

S.D. @ 5:30 P.M.

DWC - \$3,552.00 CWC - \$59,285.00

6/19/89 TIH W/436 JTS. OF TUBING. HIT TIGHT SPOT @ 14,101'. JARRED PKR. THROUGH TIGHT SPOT. RAN TO 14,15L' K.B. ATLAS WIRE-LINE RAN 1-3/8" LOG W/1.6" OD, NO GO. RIH W/14,080' OF WIRE-LINE AND HIT OBSTRUCTION. PICKED UP TO 13,680' AND COULDN'T GO DOWN. P.U. TOOL DRAG DECREASED TO 200# @ 11,000'. TOOL HUNG UP @ 7,810'. PULLED 2500# AND PULLED LOOSE. HUNG UP @ 7,764'. COULDN'T FREE. S.D. @ 4:30 P.M.

DWC - \$3,017.00 CWC - \$62,302.00

CURRENTLY:

CAME UP TO 7,574' - HUNG AGAIN. PULLED OUT OF ROPE SOCKET. BOTTOM OF WIRE CORK SCREWED. WILL RUN IN WITH SLICK LINE AND FISHING TOOL.

6/20/89 PUMPED 6 BBLs. OF KCL WATER WITH SURFACTAND DOWN THE TUBING. MOVED LOGGING TOOL FROM 7764' TO 7559' AND PARTED LINE. JARREL SERVICES RAN FISHING TOOLS ON SLICK LINE, CAUGHT FISH AND MOVED FROM 7559' TO 7530'. SHEARED OFF FISHING TOOLS & PULLED OUT OF HOLE. RAN GRAPPLE ON SAND LINE, CAUGHT & PULLED LOGGING TOOL OUT OF HOLE. TOOL HAD CLEAN BREAK ON ROPE SOCKET AND MARKS AROUND BODY THAT APPEARED TO BE FROM WIRELINE. RAN 2.31" GAUGE RING ON SLICK LINE. STOPPED AT 4974'. CAUGHT & PULLED OUT OF HOLE WITH 31' OF 5/16" MCCULLOUGH WIRELINE. RAN GAUGE RING BACK IN HOLE TO PROFILE NIPPLE AT 14,132'. RAN GAMMA RAY TO SPOT GUNS. SHUT DOWN @ 7:30 P.M.

DWC: \$3,079.00 CWC: \$65,381.00

6/21/89 SPACED OUT TUBING WITH 4 - 2 7/8" SUBS. VENT ASSEMBLY ON TUBING OPEN. DRIVE CHAIN ON PULLING UNIT BROKE WHEN PICKING UP TUBING TO TEST TOP SUBS. DOWN 2 - 1/2 HRS. TO REPAIR PULLING UNIT. SET PACKER @ 14,179' WITH 15,000# COMPRESSION. REMOVE BOP. INSTALL WRAP AROUND LOAD TUBING AND CASING ANNULUS WITH 2% KCL CHEMICALLY TREATED PACKER FLUID. INSTALL TREE AND TEST TREE TO 7500 PSI. FINISH HOOKING UP AND WELDING 2" FLOWLINE. RIG UP SWAB AND BEGAN SWABBING @ 4:00 P.M. MADE 9 SWAB RUNS. SWAB DOWN TO 4800'. SHUT DOWN @ 6:00 P.M.

DWC: \$40,351.00 CWC: \$105,732.00

6/22/89 START SWAB 7:15 A.M. MADE 2 RUNS, NO RECOVERY. CHANGE TO WIRE CUPS, SWAB TO 11,000' @ 10:00 A.M. DROP BAR TO PERF @ 10:45 A.M. GUNS FIRED @ 10:47 A.M. WITH NO IMMEDIATE RE-ACTION. AT 11:00 A.M. HAD WEAK BLOW. SLIGHT INCREASE IN BLOW NEXT 2 HRS., NO GAS TO SURFACE. RAN SWAB @ 1:00 P.M. FLUID @ 10,500'. RAN SWAB TO 11,800'. HAD SMALL GAS FLAIR WHILE PULLING OUT W/SWAB. DID NOT RETAIN ANY FLUID. LAID DOWN SWAB TOOLS @ 1:30 P.M. TUBING ON VACUUM. AT 3:00 P.M. HAD VERY SMALL GAS FLAIR. S.I. FOR PRESSURE BUILD UP.
DWC: \$24,122.00 CWC: \$129,854.00

6/23/89 -0- PSI, 16 HRS. SITP. OPEN TO PIT, BURNED SMALL FLAIR FOR 15 MIN. THEN DIED. LOADED TBG. W/61 BBLs. KCL. MOVED RENTAL EQUIPMENT BACK TO LOCATION. REMOVED TREE AND WRAPAROUND. INSTALLED 5000 PSIG BOP AND TESTED TO 2000. UNSEATED PKR. PULL THROUGH TIGHT SPOT AND 14,101 W/27,000 PSI OVER TUBING WEIGHT. PULL 61 STDS. SHUT DOWN @ 5:30 P.M.
DWC: \$4,959.00 CWC: \$134,813.00

6/24/89 FINISH TOH WITH TBG. LAID DOWN PKR. & GUNS. ALL SHOTS FIRED. W.O. ATLAS WIRELINE FROM 10:00 A.M. TO 2:00 P.M. DID NOT HAVE PROPER TOOL. RAN ATLAS VERTILOG FROM 14,400' TO 14,000'. PERFS FROM 14,226' TO 266' AND 14,341'-14,359. SHUT DOWN FOR NIGHT @ 7:00 P.M.
DWC: \$8,317.00 CWC: \$143,130.00

6/25/89 SHUT DOWN.

6/26/89 SHUT DOWN.

6/27/89 MOVE IN PULLING UNIT.

6/28/89 RIG UP ATLAS WIRELINE W/5000 LUBRICATOR. MADE TWO PERFORATING RUNS WITH 3-1/2" CASING GUNS. PERFORATED:
14,471'-14,500' (116 HOLES)
14,516'-14,522' (24 HOLES)
PERFORATED HOLE DIAMETER 0.046". DID NOT HAVE ANY INDICATION OF FORMATION AFTER PERFORATING. PICKED UP AND RAN BAKER MODEL G RETRIEVABLE BRIDGE PLUG WITH BALL CATCHER AND RETRIEVABLE CEMENTING PACKER. PICK UP 436 JTS. OF 2-7/8" TUBING AND RAN IN HOLE. SHUT DOWN @ 6:00 P.M.
DWC: \$9,251.00 CWC: \$152,381.00

6/29/89 PU 13 JTS OF TBG. & SET RBP @ 14,505 KB. LD 5 JTS. TBG. HALLIBURTON LOADED TBG W/1.5 BBLs. OF 2% KCL. REVERSED W/4 BBLs. SET RETRIEVAMATIC CEMENTER @ 14,400' KB. NIPPLED UP TREE ON BOP. HOOKED UP HALLIBURTON TO DISPLACE ACIDIC ACID. FORMATION BROKE @ 4100 PSI. PUMPED 6 BBLs @ 3 BPM @3300 PSI. ISDP = 2500 PSI. 15 MIN. = 1700 PSI. REBUILT FLOW LINE FROM WELL HEAD. AFTER 2-1/2 HRS. SIWHP = 1600 PSI. OPENED & BLED TO -0- PSI IN 30 SEC. SWAB TO 14,200' IN 5 HRS. RECOVERED 80 BBLs. LOAD WATER W/WEAK SHOW OF GAS. HAD VERY SMALL GAS FLARE 2000' AHEAD OF SWAB FROM 4800' DOWN. SHUT DOWN AT 5:30 P.M.
DWC: \$3,792.00 CWC: \$156,173.00
THIS A.M. OFSI SITP - SET UP TO TREAT W/7000 GAL ACID.

6/30/89 -0- PSIG SITP AFTER SHUT IN OVERNIGHT. RIG UP HALLIBURTON.

TREAT LOWER MORROW PERFORATIONS WITH 7000 GALS., 7-1/2% MOROFLOW ACID WITH 50 BALL SEALERS AND 250,000 SCF NITROGEN (1000 SCF N2 PER BBL). 6080 MAX. TREATING PRESSURE, 4900 MINIMUM TREATING PRESSURE. 5550 AVERAGE TREATING PRESSURE, 5.2 BBL/MIN AVERAGE TREATING RATE, 5150# ISIP, 4750# 15 MIN. SITP. LOAD TO RECOVER 216 BBL. OPEN WELL @ 10:45 A.M. FLOWED BACK FOR 45 MIN. RIG UP SWAB AND STARTED SWABBING @ 11:45 A.M. SWAB WELL DOWN TO 13,800' IN 5-1/2 HRS. RECOVERED 125 BBL LOAD. NO INDICATION OF FORMATION GAS. SHUT IN AND SHUT DOWN @ 5:30 P.M.
DWC: \$15,550.00 CWC: \$171,723.00

7/1/89 13-1/2 HRS. SITP 750 PSI, BLEW DOWN IN 10 MIN., GAS WOULD NOT BURN, RAN SWAB, FLUID LEVEL @ 9500', SWAB TO 12,500', 3 RUNS, NO GAS THAT WOULD BURN, LOADED HOLE W/70 BBL 2% KCL WATER, MOVED BP TO 14,416, TESTED TO 3000#, SPOT 250 GALS. 10% ACIDIC ACID @ 14,365, MOVED PACKER TO 14,309, REVERSE W/7 BBLs. 2% KCL WATER, SET PKR. @ 14,309, NIPPLED TREE ON BOP, BROKE DOWN MIDDLE MORROW PERFS @ 4100 PSI, PUMP 8 BBLs. @ 3.2 BBLs. PER MIN. @ MAX. 4340#, ISDP-3650 PSI, 15 MIN. SI-1890, LOAD TO RECOVER 92 BBLs., BLEW WELL DOWN, STARTED SWABBING @ 2:00 P.M., SWAB TO 13,000' - 3-1/2 HRS. RECOVERED ESTIMATED 85 BBLs. LOAD W/WEAK GAS SHOW ON LAST 2 RUNS. SI FOR NIGHT @ 5:30 P.M.
DWC: \$4,272.00 CWC: \$175,995.00

7/2/89 13-1/2 HRS. SITP - 20 PSIG, RAN SWAB FLUID 12,800', SWAB TO 14,400' 2 RUNS RECOVERED ESTIMATED 5 BBLs LOAD W/A SHOW OF GAS, RU HALLIBURTON TO TREAT, TREAT PERFS 14,340-14,358 W/3600 GALS. 7-1/2% MOROFLO ACID, 185,000 STANDARD CUBIC FEET NITROGEN, 50 BALL SEALERS. MAX. TREAT PERFS 7200 PSI, AVG. 6400, AVG. RATE 5.7 PER MIN. ISTP - 5300 PSI, 15 MIN. SI-4560. LOAD TO RECOVER 136 BBLs. OPEN TO PIT 10:45 A.M. LOAD BACK 1-1/2 HRS., DIED TO SMALL STREAM ACID WATER W/ WEAK NITROGEN BLOW, SWAB @ 12:15 P.M. 10 RUNS, 4-1/2 HRS., LAST 3 RUNS @ 14,000', RECOVERED ESTIMATED 55 BBLs FLOW, 42 BBLs. SWAB, SMALL GAS FLARE LAST 3 RUNS. SI AND SD FOR NIGHT @ 5:00 P.M.
DWC: \$9100.00 CWC: \$185,095.00

7/3/89 14-1/2 HRS. SITP - 1100 PSI, BLEW DOWN 15 MIN., 1ST 4 MIN. WOULD NOT BURN FLARE, RAN SWAB LEVEL @ 8500', CALCULATED BHP-3700 PSI, SWAB 4 HRS., 7 RUNS, RECOVERED 22 BBLs. ACID WATER, SMALL GAS FLARE, SWAB DRY, RECOVERED 1 BBL., 6TH RUN WAITED 1 HR. RECOVERED 100' FLUID, 7TH RUN, SI & SD @ NOON FOR/PRESSURE BUILDUP.
DWC: \$1955.00 CWC: \$187,050.00

7/4/89 20-1/2 HRS. SITP - 1000 PSI, SHUT DOWN.

7/5/89 SHUT DOWN.

7/6/89 67 HR. SHUT IN. 1900 PSIG SITP. OPEN WELL. BLEW DOWN IN 15 MIN, RAN SWAB IN TUBING. FOUND FLUID WITH GAS POCKETS @ 8000'. MADE ONE SWAB RUN. RECOVERED 4 BBL. ACID WATER. LOAD HOLE WITH 2% KCL WATER. NIPPLE DOWN TREE. UNSEAT PACKER. MOVE RETRIEVABLE BRIDGE PLUG. RESET @ 14,310'. TEST RBP TO 5000 PSI. HELD OKAY. SPOT 250 GAL. 10% ACETIC ACID @ 14,270'. PULL UP TO 14,183'. REVERSE OUT 8 BBL 2 % KCL WATER. SET BAKER LOCKSET @ 14,183'. NIPPLE UP TREE ON BOP. RIG UP HALLIBURTON. BROKE DOWN PERFS 14,226'-14,266'. PERFS BROKE @ 3600 PSIG. TREATED @ 3500 PSIG @ 3.1 BPM. 2600 PSIG ISIP. 1720 PSIG 15 MIN SITP. LOAD TO RECOVER 96 BBL. BLED OFF PRESSURE. MADE 12 SWAB RUNS IN 4 HOURS. SWABBED WELL DOWN TO 13,800'. RECOVERED ESTIMATED 92 BBL. SMALL CONTINUOUS FLARE AFTER 10TH SWAB RUN. WAITED 1/2 HR. BETWEEN 11TH AND 12TH SWAB RUN. RECOVERED 1/2 BBL. ACID WATER. SHUT DOWN AND SHUT IN @ 4:30 P.M.
DWC: \$4,523.00 CWC: \$191,573.00

7/7/89 14 HR. SITP 100 PSIG. BLED WELL DOWN. RAN SWAB. FLUID LEVEL @ 12,500'. RECOVERED 1 BBL ACID WATER IN HEAVY SPRAY. HALLIBURTON TREATED UPPER MORROW PERFORATIONS WITH 8000 GAL. 7-1/2% MOROFLW ACID WITH 245,000 SCF NITROGEN & 50 BALL SEALERS. MAX. TREATING PRESSURE 6400 PSIG, MINIMUM TREATING PRESSURE 4660 PSIG, AVERAGE TREATING PRESSURE 5850 PSIG, AVERAGE TREATING RATE 5.4 BBL/MIN., ISTP 4920 PSIG, 15 MIN. SITP 4600, 240 BBL. TO RECOVER. OPEN WELL UP, FLOW FOR 1 HR. 15 MIN. RECOVERED ESTIMATED 65 BBLs. LOAD. SWABBED DOWN WELL TO 14,4000' IN 5-1/2 HRS. RECOVERED 80 BBL. LOAD. SWABBING WITH CONTINUOUS WEAK GAS FLOW LAST 4 SWAB RUNS. ESTIMATED 95 BBL. LOAD LEFT TO RECOVER. SHUT IN AND SHUT DOWN @ 5:30 P.M.
DWC: \$17,753.00 CWC: \$209,326.00

7/8/89 13-1/2 HRS. SITP 1150 PSIG, BLED DOWN WITH NO FLARE. PRESSURE DECREASED TO -0- PSIG IN 10 MIN. RAN SWAB. FLUID LEVEL @ 6000' FROM SURFACE. SWABBED WELL DOWN TO 14,000' IN 7-1/2 HRS. RECOVERED 45 BBL. OF ACID WATER. RECOVERED 2 BBL ON LAST THREE SWAB RUNS FROM 14,000'. NO RECOVERY ON LAST SWAB RUN. WAITED ONE HR. BETWEEN LAST SWAB RUNS. HAD CONSTANT FLARE ON LAST 4 SWAB RUNS. GAS TSTM. OPEN ON 16/64" CHOKE. SHUT DOWN AND SHUT WELL IN @ 6:30 P.M.
DWC: \$2535.00 CWC: \$211,861.00

7/9/89 18 HR. SITP 1050 PSIG. BROKE OUT RENTAL LINES AND PICKED UP ALL RENTAL EQUIPMENT EXCEPT BOP AND RENTAL SPOOLS.
DWC: \$712.00 CWC: \$212,000.00

7/10/89 2600 SITP.

7/11/89 2650 SITP.

7/12/89 2750 SITP.

7/13/89 2800 SITP.

7/14/89 2850 SITP.

7/15/89 2900 SITP.

7/16/89 2950 SITP.

7/17/89 3000 SITP.

7/18/89 RIG UP PULLING UNIT. UNSEAT BAKER LOCKSET PACKER. PACKER WILL NOT GO DOWN TO RETREIVE BRIDGE PLUG. POOH WITH TUBING AND PACKER. LEFT PACKER RUBBERS AND BROKEN SAFETY RING FROM PACKER IN HOLE. TRIP IN HOLE WITH NEW PACKER AND RETRIEVING HEAD FOR RBP. TRIP IN HOLE AND LATCH ONTO RBP. UNSEAT RBP AND START TRIP OUT OF HOLE. SHUT DOWN FOR NIGHT.
DWC: \$8047.00 CWC: \$220,047.00

7/19/89 FINISH TRIP OUT OF HOLE WITH RETREVIABLE BRIDGE PLUG & PACKER. TRIP IN HOLE WITH NEW BAKER MODEL G RETREVIABLE BRIDGE PLUG & PACKER. TRIP IN HOLE WITH 444 JOINTS OF 2-7/8" TUBING. SET RETREVIABLE BRIDGE PLUG @ 14,405'. LAID DOWN ONE JOINT. SHUT DOWN AT 5:00 P.M.
DWC: \$1979.00 CWC: \$222,026.00

7/20/89 TEST RETREVIABLE BRIDGE PLUG TO 5000 PSI. HELD OKAY. REMOVE BOP SET PACKER @ 14,310'. INSTALL WRAP-A-ROUND & TREE. RE-FABRICATE FLOW LINE. STARTED SWABBING. SWABBED 5 HRS. MADE 14 SWAB RUNS. RECOVERED ESTIMATED 85 BBL. FLUID. PULL LAST RUN FROM SEATING NIPPLE. SMALL INTERMITTENT FLARE ON LAST 5 RUNS. SHUT DOWN @ 5:30 P.M.
DWC: \$5968.00 CWC: \$227,994

7/21/89 14 HR. SITP -0-, HOOK UP HALLIBURTON TO FRAC. TREAT WITH 16,404 GEL VERSAGEL INTERPROP. FLUSH WITH 3500 GAL GEL AND CO2. MAX. TREATING PRESSURE 9500 PSIG. AVG. TREATING PRESSURE 8560 PSIG. AVG. RATE 11 BPM; ISIP 5820 PSIG, 15 MIN. SITP 4780 PSIG, LOAD TO RECOVER 452 BBL. TREATMENT COMPLETED @ 10:15 P.M. 2:30 P.M. SITP 3200 PSIG, OPEN WELL TO PIT @ 2:30 P.M. ON 12/64" CHOKE, FTP 1300 PSIG; 4:30 P.M. 12/64" CHOKE, FTP 1000 PSIG, 5:30 P.M. 12/64" CHOKE, FTP 800 PSIG. LEFT WELL FLOWING FREE FLUID AND CO2 OVERNIGHT.
DWC: \$31,336.00 CWC: \$259,330.00

7/22/89 7:15 A.M. WEAK BLOW OF CO2 WITH NO FLUID. CHANGED CHOKE TO 24/64" CHOKE. FLOWING CO2 WITH HEADS OF FRAC FLUID FOR ONE HOUR. STARTED SWABBING @ 8:30 A.M. SWABBED 8-1/2 HRS. RECOVERED 105 BBL. OF MUD COLORED FRAC FLUID. MADE 26 SWAB RUNS. LAST RUN FROM SEATING NIPPLE. LAST 5 SWAB RUNS HAD GAS FLARE BEHIND SWAB. SHUT IN AND SHUT DOWN @ 5:00 P.M. TOTAL ESTIMATED BBLs. RECOVERED: 305 BBL.
DWC: \$2,067.00 CWC: \$261,397.00

7/23/89 14-1/2 HRS. SITP, 450 PSIG. BLEW WELL DOWN IN 20 MIN ON 3/4" CHOKE. WELL HAD CO2 GAS WITH SLIGHT FAINT ODOR OF FORMATION GAS. RAN SWAB. FLUID LEVEL AT 8000'. MADE 8 SWAB RUNS IN 3-1/2 HRS. LAST 4 SWAB RUNS FROM SEATING NIPPLE RECOVERED 35 BBL OF FRAC FLUID. RECOVERED 1 BBL. OF FLUID ON LAST 2 SWAB RUNS WITH OCCASIONAL COLORLESS FLARE. SI AND SHUT DOWN @ 12:00 NOON.
DWC: \$1,131.00 CWC: \$262,528.00

7/24/89 WELL SHUT IN. MEETING WITH PARTNERS TO DETERMINE NEXT LINE OF ACTION.

7/25/89 WELL SHUT IN. DRAWING UP COMPLETION PROCEDURE FOR ATOKA BANK.

7/26/89 WELL SHUT IN. BEGIN PULLING TUBING OUT OF HOLE THIS A.M. TO COMPLETE ATOKA BANK.

7/27/89 SITP 1400. BLED DOWN AND NIPPLE DOWN TREE. UNSEATED PACKER, INSTALLED BOP. BLED DOWN TUBING 1 HR. UNTIL WELL EQUALIZED. PICK UP 2 JTS. @ 14,355'. CIRCULATED OUT PROP FROM 14,355' TO RBP @14,405' WITH 230 BBLs OF 2% KCL WITH CORROSION INHIBITOR. LATCH ON TO RBP, WORKED WITH PLUG FOR 3 HRS. COULD NOT RE-LEASE RETREIVING HEAD FROM PLUG. WAITED ON WAER, THEN LOADED TBG W/3 BBLs. AND PUMPED 1 BBL DOWN TBG @ 2500 PSI. STRING CAME FREE. COULD PULL UP BUT COULDN'T GO BACK DOWN HOLE. PULL 56 STDs AND SHUT DOWN FOR NIGHT @ 6:00 P.M.
DWC: \$6,615.00 CWC: \$269,143.00

7/28/89 FINISHED TOH W/TUBING, PACKER & BP. WAITED 3-1/2 HRS. FOR ATLAS WIRELINE SERVICE. RAN 4.343 O.D. GAUGE RING AND JUNK BASKET TO 14,250'. RAN CIBP AND SET @ 14,200' KB. SHUT DOWN @ 5:30 P.M.
DWC: \$2,125.00 CWC: \$271,268.00

7/29/89 ATLAS WIRELINE MADE 3 RUNS WITH DUMP BAILER AND CAPPED CIBP WITH 50' CEMENT. LOADED HOLE WITH 100 BBL. 2% KCL WATER PACKER FLUID TEST BOP AND BLIND RAMS TO 4000 PSIG. HELD OKAY. RIG UP GREASE PACK LUBRICATOR AND WENT IN HOLE WITH PERFORATING GUN TO 1000'. TEST LUBRICATOR TO 4000 PSIG. HELD OKAY. CONTINUE IN HOLE WITH 3-1/2" CASED HOLE GUN. PERFORATE 4 SQUEEZE HOLES AT 13,292'-13,293'. WELL PRESSURE UP TO 1800 PSIG IN ONE HR. 3000 PSIG IN 1 1/2 HRS. BLED PRESSURE DOWN TO 1400 PSIG. ATTEMPTED TO RUN 5-1/2" CEMENT RETAINER. COULD NOT GET RETAINER OUT OF LUBRICATOR. BLED PRESSURE DOWN TO -0- PSIG. WENT IN HOLE WITH 5-1/2" BAKER MODEL K CEMENT RETAINER. SET RETAINER @ 13,265' K.B. NO PRESSURE INCREASE WHILE RUNNING RETAINER. SHUT IN & SHUT DOWN @ 7:30 P.M.
DWC: \$4,592.00 CWC: \$276,220.00

7/30/89 REPLACE BLIND RAMS. TRIP IN HOLE WITH RETAINER STINGER AND 408 JOINTS OF TUBING. STUNG INTO RETAINER. ESTABLISH RATE OF 2 BPM AT 4500 PSIG. MIX 155 SX. CLASS H CEMENT WITH 0.6% HALAD 9 AT 15.6#/GAL. SQUEEZE WITH 140 SX. INTO PERFS AT 13,292'-13,293'. FINAL SQUEEZE PRESSURE 3900 PSIG. REVERSE OUT TO PIT LAID DOWN 5 JOINTS OF TUBING. PULLED UP 40 STANDS. SHUT DOWN AT 5:30 P.M.
DWC: \$20,406.00 CWC: \$296,626.00

7/31/89 SHUT DOWN FOR SUNDAY.

8/1/89 PULL OUT OF HOLE WITH TUBING AND STINGER FOR CEMENT RETAINER. RIG UP REVERSE. TEST RAMS TO 2000 PSIG. HELD OKAY. REPLACE BROKE BLOCKS ON RIG. RUN IN HOLE WITH 4-1/2 BIT, 6 DRILL COLLARS AND CROSS OVER SUBS.
DWC: \$3,741.00 CWC: \$300,367.00

8/2/89 TRIP IN HOLE W/REMAINDER OF TBG. TAG CEMENT @ 13,260'. DRILL OUT CEMENT AND RETAINER, 27' OF CEMENT BELOW RETAINER. CIRCULATE CLEAN. PRESSURE UP TO 2000#. POOH W/TUBING. LAID DOWN DRILLING TOOLS.
DWC: \$5,136.00 CWC: \$305,503.00

8/3/89 ATLAS WIRELINE RAN CBL TOOL. TRUCK COMPUTER BROKE DOWN. WAITED 3 HOURS ON REPLACEMENT TRUCK. RAN CBL FROM 13,490-12,850'. HAD GOOD TO EXCELLENT BOND, 12,995-13,242'. FAIR TO POOR BOND, 13,242-13,296'. FROM 13,296-13,350' NO CEMENT. SHUT DOWN @ 6:30 P.M.
DWC: \$3,501.00 CWC: \$309,004.00

8/4/89 ATLAS WIRELINE RAN IN HOLE WITH PERFORATING GUN TO 1,000'. TESTED BOP AND CASING AND LUBRICATOR TO 4000 PSI. CONTINUE IN HOLE W/GUNS. PERF W/3-1/2" Cased Hole Gun from 13,317' TO 13,332' W/30 HOLES. NO PRESSURE AFTER PERFORATING. RAN SCHLUMBERGER TRACK TOOL, BAKER LOCK SET, EL RECEPTACLE W/2.25" PROFILE, AND 407 JOINTS OF TUBING. SET PACKER AT 13,227' K.B. SPACED OUT FOR 10,000# COMPRESSION AFTER BREAKING DISC. REMOVE BOP AND TESTED TREE TO 7000 PSI. DROPPED BAR AND BROKE DISC AT 5:45 P.M. HAD WEAK BLOW OF AIR THRU NEEDLE VALVE FOR 45 MIN. S.I. AT 6:30 P.M.
DWC: \$9,553.00 CWC: \$318,557.00

8/5/89 13 HR. SITP 25 PSIG, OPEN WELL TO PIT, BURN VERY SMALL FLARE FOR 10 MIN. RAN SWAB TO PROFILE NIPPLE. 250' FLUID IN TUBING. SWAB RUN RECOVERED NO FLUID. SHUT IN @ 9:30 A.M.
DWC: \$10,677.00 CWC: \$329,234.00

8/6/89 22 HR. SITP 25 PSIG. HALLIBURTON RIGGED UP AND ACIDIZED WITH 3000 GAL. MOD 202 ACID W/15 GAL. SGAHT (GELLING AGENT), 6 GAL. HAI 75 INHIBITOR W/1000 GAL. SCF/BBL NITROGEN. MAXIMUM TREATING PRESSURE 6920 PSIG. AVERAGE TREATING PRESSURE 6750 PSIG AVERAGE TREATING RATE 4 BBL/MIN., ISIP 6220 PSIG, 15 MIN. SITP 5890 PSIG. LOAD TO RECOVER 125 BBL. OPEN WELL TO FLOW BACK AT 10:15 A.M. FLOWED BACK LOAD AND CLEANED UP FLOWING NO FLUID AT 12:00 NOON: FLOWING CHOKE 24/64" CHOKE, FTP 125 PSIG.
12:30 P.M. - CHOKE 24/64", FTP 125 PSIG,
1:00 P.M. - CHOKE 24/64", FTP 105 PSIG,
1:30 P.M. - CHOKE 24/64", FTP 100 PSIG. APPROXIMATELY 390 MCF/DAY. SHUT IN.
DWC: \$8,843.00 CWC: \$338,167.00

8/7/89 20 HR. SITP 2750 PSIG. OPEN WELL TO PIT ON 3/4" CHOKE. AFTER 15 MIN. WELL MAKING HEAVY MIST OF ACID WATER. MADE ONE SMALL HEAD OF WATER. DECREASED TO VERY LIGHT MIST AFTER 30 MIN. SHUT DOWN AND SHUT IN.
DWC: \$250.00 CWC: \$338,417.00

8/7/89 MONDAY A.M. SITP 2450 PSIG. OPEN WELL UP ON 24/64" CHOKE. IN ONE HOUR. BLED DOWN TO 15 MIN.

8/8/89 21 HRS. SITP 2450 PSI. OPEN TO PIT ON 24/64" CHOKE, PRESSURE BLED DOWN TO 15 PSIG IN ONE HOUR. RAN SWAB. FOUND SCATTERED FLUID FROM 700' TO 3000'. RECOVERED 3-4 BBLs. ACID WATER W/ TRACE OF CONDENSATE. MADE 2ND SWAB RUN TO PROFILE NIPPLE - NO FLUID. 1/2 HOUR AFTER SWAB FTP 15 PSIG ON 24/64" CHOKE. SHUT IN AT 10:30 A.M.
DWC: \$973.00 CWC: \$339,390.00

8/9/89 21 HR. SITP, 2500 PSIG. BLEW WELL DOWN IN 20 MIN. LOADED WELL W/2% KCL WATER. NIPPLE DOWN TREE. LAID DOWN 4 JTS. OF TBG. SET PKR. @ 13,099' W/16,000 # TENSION. PKR WOULD NOT SET IN COMPRES- SION. INSTALL WRAP-A-ROUND. NIPPLE UP TREE. SWAB FLUID DOWN TO 9000'. RIG UP ATLAS WIRELINE W/2-1/8" SILVER JET TUBING GUN. PERFORATION GUN WOULD NOT PASS THROUGH PACKER ASSEMBLY. SHUT DOWN. WILL RIG UP SINKER BARS TOMMORROW TO TRY AND GO THROUGH PACKER ASSEMBLY. BLOCKAGE MOST LIKELY PART OF LEFT OVER RUPTURE DISK.
DWC: \$3,973.00 CWC: \$343,363.00

8/10/89 12 HR SITP 1450 PSI. BLEW TO 250 IN 25 MINUTES. ATLAS RAN 1-11/16" SINKER BARS WITH JARS AND 1-13/16" GAUGE RING. STOP ON OBSTRUCTION AT 13,101'. SPUDDED 6 TIMES AND REMOVED OB- STRUCTION. RAN 1-11/16" STRIP GUN TO PERFORATE. DIDN'T FIRE. HAD WET FIRING HEAD AND BAD PANEL IN TRUCK. REWORKED HEAD. RIH. PERF FROM 13,202'-13,206' W/16 HOLES. HAD BU FROM 50 PSI TO 100 PSI IN 40 MIN. SHUT DOWN AT 6:30 P.M.
DWC: \$4,178.00 CWC: \$347,541.00

8/11/89 13 HRS. SITP - 1500 PSI. BLEW DOWN IN 20 MINUTES ON 3/4" CHOKE. 1 BW RECOVERED. MADE 3 SWAB RUNS W/3RD FROM PROFILE NIPPLE. RECOVERED 15 BW. 1/2 HR. AFTER SWABBING HAD SMALL GAS FLARE WITH APPROXIMATELY 50 -100 MCFPD. DHUT DOWN @ 10:15 A.M.
DWC: \$950.00 CWC: \$348,491.00