

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(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 ☐ GAS WELL ☒ OTHER ☐	RECEIVED	6. LEASE DESIGNATION AND SERIAL NO. LC-069108
2. NAME OF OPERATOR Bettis, Boyle & Stovall		7. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1240, Graham, Texas 76046	NOV 2 - '89	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	O. C. D. ARTESIA, OFFICE	8. FARM OR LEASE NAME
14. PERMIT NO. Dated 3/14/89	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 3349.3 GR	9. WELL NO. -71-
		10. FIELD AND POOL, OR WILDCAT Wildcat-Morrow
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T23S, R30E
		12. COUNTY OR PARISH Eddy
		13. STATE NM

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	FULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) ☐	(Other) ☐

(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.)

03/20/89 - 05/26/89 - Complete Drilling Report Attached

RECEIVED FOR RECORD
Adm
OCT 31 1989

CARLSBAD, NEW MEXICO

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

SIGNED <u>Jim Stovall</u>	TITLE <u>Production Asst.</u>	DATE <u>10/17/89</u>
(This space for Federal or State office use)		
APPROVED BY _____	TITLE _____	DATE _____
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side

BETTIS, BOYLE & STOVALL
P. O. BOX 1240
GRAHAM, TEXAS 76046
FAX-817-549-7405
817-549-0780

DRILLING REPORT

POKER LAKE UNIT #71
660 FNL & 1980' FWL SEC. 33, T23S, R30E
EDDY COUNTY, NEW MEXICO

PTD: 14,600'

FAX TO: BETTIS BROS.-1-915-685-0198
BASS ENTERPRISES PROD. 1-817-390-8626; JACKIE PHILLIPS
BASS ENTERPRISES PROD. 1-915-688-3310; SHARLA WELLS
PAN CANADIAN PET.CO.1-303-825-1538; KATHY RAMSEY
EXXON U. S. A.1-915-685-9677; LARRY SAILER
EXXON U. S. A.1-915-683-0443 ALEX CORREA
STEVE NASSEY COMPANY-1-915-687-1841
RMB-CO.1-501-663-4456-R. B. McDONOUGH, JR.
KCM CO.-NO FAX MARK BRANUM

3-20-89 --3-25-89

GLOBE CONSTRUCTION- BUILDING LOCATION. SET CONDUCTOR 30"
@ 66' KB. CMT. W/8 YARDS REDI-MIX (3-22-89) MOVE IN & RIG
UP WILBROS DRILLING RIG #15.

3-26-89 DAY #1, 200' RED BED, 1 1/2 MIN/FT. DRLG. W/FULL RETURNS,
WT. 8.4, VIS. 28, PH 10, BIT #1, 26" HUGHES OSC 3AJ, IN @
66', MADE 134' IN 8 HRS., WOB-60,000#, RPM'S 65; PUMP PRESSURE
500#, PUMP #1 6"X9", 85 SPM, PUMP #2 6"X8", 85 SPM.
HOURLY BREAKDOWN: 16 HRS. RIGGING UP, 8 HRS. DRLG.
SPUD @ 11:00 PM (3-25-89).

3-27-89 DAY #2, 618' ANHYDRITE, 2 MIN/FT. WOB 60,000#, PRESENT OPERATION:
RIGGING UP DOWELL CEMENTING HEAD. WT. 8.3, VIS. 28, PH 10, NO
RETURNS; LOST ALL RETURNS @ 327'. DRY DRILLED TO 618'; 65 RPM'S
500 PUMP PRESSURE; PUMP #1-85 SPM, #2 85 SPM; BIT #1 26", HUGHES
OSC 3AJ, IN @ 66' MADE 552' IN 23 1/2 HRS. OUT @ 618', LOST
COMPLETE RETURNS @ 12 NOON CST, PUMPED THREE LCM SWEEPS, NO RE-
TURNS; 1:30 PM CST, STARTED DRY DRILLING. MADE 418' IN LAST 24
HRS., HOURLY BREAKDOWN: 14 1/2 HRS. DRLG.; 3 1/2 HRS. LAY DOWN
REAMERS & DRILL PIPE, 4 1/2 HRS. RUNNING 20" CASING. 1 1/2 HRS.
TRYING TO REGAIN CIRCULATION.
SURFACE CSG.: 20", 94#, K-55, BUTTRESS & BIG OMEGA THREAD, 17 JNTS.
DMC:\$814.00 CMC: \$814.00 DWC: \$15,362.00 CWC:\$16,176.

3-28-89 618' ANHYDRITE, PRESENT OPERATION: NIPPLE UP HYDRILL ON 20"
SURFACE CASING, HOURLY BREAKDOWN: 2 1/2 HRS. DOWELL CEMENT WITH
675 SX LITE, 1/4# CELLO FLAKE, 2% CACL. 12.7#/GAL + 500 SX. 2%
14.8#/GAL, DID NOT CIRCULATE, 5 HRS. WOC., 3 HRS. RUN 1", TAG
CMT. @ 310' PUMP 250 GAL FLOCHECK + 50 SX CLASS C, 4% CACL;
3 HRS. WOC, CEMENT W/50 SX CLASS C, 4% CACL, TAG TOP OF CMT.
@ 290'. 3 HRS. WOC. CEMENT W/300 SX CLASS C 4% CACL. 2 HRS.
WOC. TAG TOP OF CMT. @ 90'. CEMENT W/100 SX CLASS C, 4% CACL.
CIRCULATE CEMENT TO RESERVE PIT. 2 HRS. WOC., 3 1/2 HRS. CUT
OFF 20" RISER & NIPPLE UP.
DMC:0 CMC:\$814.00 DWC: \$91,031.00 CWC: \$107,207.00.

- 3-29-89 DAY #4, 1240' SAND, SALT & ANHYDRITE, 3/4-1 MIN/FT. MADE 622' IN LAST 24 HRS., PRESENT OPERATION: DRLG., WT. 10.1, VIS. 28 PH 10, DRLG. W/BRINE WATER; FULL RETURNS, WOB 60,000, RPM'S 85, PUMP PRESSURE 2000#, PUMP #1 6"X9", 115 SPM, PUMP #2 6"X8" 110 SPM, BIT #2, 17 1/2", HUGHES X3A, 3-15 JETS, IN @ 618', MADE 622' IN 8 1/2 HRS. SURVEY @ 618' 1 DEG. @ 1080' 3/4 DEG., HOURLY BREAKDOWN: 8 1/2 HRS. NIPPLE UP & TEST HYDRILL 2 HRS. TRIP IN HOLE, 1/2 HR. TEST CSG. TO 500#, VALVE ON CSG. HEAD LEAKING, REPAIR VALVE. 1/2 HR. TEST CSG. TO 500# HELD OK, 4 HRS. RIG REPAIR, 8 1/2 HRS. DRLG.
DMC: 0, CMC:\$814.00 DWC:\$20,265. CWC:\$127,472.
- 3-30-89 2165' ANHYDRITE, 2 MIN/FT., WOB 60,000., DRILLING, WT. 10.1, VIS. 28, PH 8, CHL. 182,000, CIRC. RESERVE FULL RETURNS, RPM'S 65, PUMP PRESSURE 2000, BIT #2, 17 1/2 HUGHES X3H IN @ 618' OUT @ 1719' MADE 1101' IN 18 3/4 HRS., BIT #3 17 1/2" SMITH F-1 IN 10 HRS., SURVEY @ 1496' 3/4 DEG. @ 1719' 1/4 DEG. MADE 725' IN 24 HRS., 20 1/4 HRS. DRLG., 3 1/2 HRS. TRIP, SURVEY 1/4 HRS.
DMC:\$112.00 CMC:\$926.00 DWC:\$43,939. CWC:\$171,523.
- 3-31-89 6TH DAY, 2539' ANHYDRITE, 15.9'/HR., WOB 60,000, WT. 10.1 VIS. 28, PH 8, CHL. 182,000; RPM'S 65, PUMP PRESSURE 2000; PUMP #1 110; PUMP #2 115; BIT #3 17 1/2" SMITH 2JS W/3-15 JETS, BIT #3 IN @ 1719' MADE 820' IN 33 HRS. SURVEY @ 2180' 1/2 DEG., @ 2459' 1 DEG.; HOURLY BREAKDOWN: 23 HRS. DRLG. 1 HR. SURVEY.
DMC:\$31. CMC: \$957. DWC:\$8,976. CWC:\$180,499.
- 4-1-89 DAY #7, 2953' ANHYDRITE, 60-70,000 BIT WT., MUD WT. 10, VIS. 28, PH 9, 185,000 CHL., RPM'S 65, PUMP PRESSURE 2100, #1 110 #2 115, BIT #3 17 1/2" SMITH 2JS, 3-15 JETS, IN @ 1719' MADE 1234' IN 57 HRS., MADE 414' IN LAST 24 HRS., 23 1/2 HRS. DRLG., 1/2 HR. SURVEY @ 2738' 3/4 DEG.
DMC:\$1150. CMC:\$2107. DWC:\$9936. CWC:\$190,435.
- 4-2-89 DAY #8, 3564' ANHYDRITE & SALT, 70-40,000 BIT WT. MUD WT. 10 VIS. 28, PH 9, 192,000 CHL. RPM'S 65, PUMP PRESSURE 2100 #1 110 #2 115, BIT #3 MADE 1845' IN 79 HRS., MADE 611' IN LAST 24 HRS., 22 HRS. DRLG., SURVEY 1 HR. TIME CHANGE.
DMC:\$0, CMC:\$2107. DWC:\$14,664. CWC:\$205,099.
- 4-3-89 3753' LIME 70,000 WOB, TRIP OUT TO RUN CSG. WT. 10, VIS. 28, PH 11, 188,000 CHL. 65 RPM'S, PUMP PRESSURE 2100, BIT #3 IN @ 1719' OUT @ 3753' MADE 2034' IN 98 1/4 HRS., MADE 189' IN LAST 24 HRS., DRILLING 19 1/4 HRS., 2 1/2 HRS. TRIP, 1/2 HR. COND. MUD, 3/4 HRS. FLUID CALIPER.
DMC:\$475. CMC:2580. DWC:\$5009. CWC:\$210,108.

- 4-4-89 3753' LIME, CURRENTLY WELDING ON WELLHEAD & NIPPLE UP BOP, WT. 8.3, VIS. 28, 5 HRS. TRIP OUT OF HOLE, 6 1/2 HRS. RIG UP CASING CREW & RUN 117 UNITS. 13 3/8" 68 & 72# SET @ 3753'. 3 1/2 HRS. CEMENT W/2500SX LITE (12.7#/GAL) LEADING IN. 500SX CLASS C (14.8#/GAL) TAIL., CIRC. 400 SX TO RESERVE PIT. PLUG DOWN @ 9:45 PM 4-1-89, 6 HRS. WOC, 3 HRS. CUT OFF NIPPLE DOWN 20" HYDRILL. WELD ON 13 5/8" WELLHEAD, TEST WELLHEAD, NIPPLE UP BOP.
DMC:0, CMC:\$2,580. DWC:\$62,134. CWC:\$272,242.
- 4-5-89 DAY 11, 3753' PRESENT OPERATION: TRIPPING IN HOLE, WT. 8.3 VIS. 28, HOURLY BREAKDOWN: 1 HR. WELD ON 13 3/8" HEAD, TEST 900# HELD OK, 9 HRS. NIPPLE UP BOP, 5 HRS. TEST TO KILL LINES, CHOKE & BOP TO 4000 PSI, HELD OK, TEST HYDRILL TO 2500# HELD OK, 8 HRS. INSPECTING DRILL COLLARS, 1 HR. TRIP IN HOLE.
DMC:\$23. CWC:\$2603. DWC:\$9004. CWC:\$281,246.
- 4-6-89 4629' SAND & SHALE, 60,000 WOB, DRILLING, WT. 8.4, VIS. 28, PH. 10, 32,000 CHL., 70 RPM'S, 2000 PUMP PRESSURE, BIT #4 12 1/4" REED HS 51, 2-14, 1-15 JETS IN @ 3757' MADE 876' IN 19 3/4 HRS. SURVEY 4241' 1/2 DEG., 1 1/4 HRS. TRIP IN, 1 1/4 HRS. TEST CSG. TO 1500 PSI, DISPLACE W/FRESH WATER 1 HR., 1 1/4 HRS. DRILL CEMENT & SHOE, 19 3/4 HRS. DRLG. MADE 876'.
DMC:\$110. CMC:\$2713. DWC:\$28,920. CWC:\$310,166.
- 4-7-89 5452' 30% SHALE, 70% SAND, 60,000 WOB, DRLG., WT. 8.4, VIS. 28, PH 10, CIRCULATE RESERVE, 70 RPM'S, 2,000 PUMP PRESSURE, BIT #4 12 1/4" REED HS 51, IN @ 3753' MADE 1699' IN 42 1/4 HRS., SURVEY @ 4606' 1/4 DEG. @ 5183' 3/4 DEG., MADE 823' IN LAST 24 HRS. 22 1/2 HR. DRLG. 1 1/2 HRS. SURVEY.
DMC:\$78. CMC:\$2791. DWC:\$19,830. CWC:\$329,996.
- 4-8-89 DAY 14 6210' 100% SAND, 80 UNITS BACKGROUND GAS, 450 UNITS CONN. GAS, WOB. 60,000, WT. 8.4, VIS. 28, PH 10, 70 RPM'S, 2000 PUMP PRESSURE, BIT #4 12 1/4" REED HP-51, BR2935, 2-14, 1-15 JETS, IN @ 3753' MADE 2457' IN 65 1/4 HRS., SURVEY @ 5117' 3/4 DEG. 5685' 1/4 DEG., MADE 758' IN LAST 24 HRS., 23 HRS. DRLG. 1 HR. SURVEY.
DMC:\$91. CMC:\$2882. DWC:\$18,235. CWC:\$348,231.
- 4-9-89 DAY 15, 6464' 80% SAND, 20% SHALE, 60 UNITS BACKGROUND GAS, 160 UNITS CONN. GAS, 1000 UNITS TRIP GAS, WOB 60,000, WT. 8.4, VIS. 28, PH 10, RPM'S 70, 2000 PUMP PRESSURE, BIT #4 IN 3753' OUT 6322', MADE 2569' JIN 71 1/2 HRS. BIT #5 12 1/4" HUGHES J-33, RD634 2-15, 1-14 JETS, IN @ 6322' MADE 142' IN 5 3/4 HRS., SURVEY @ 6322' 1/4 DEG., 12 HRS. DRLG. 2 1/2 HRS. REEM 220' UNDERGAUGE HOLE, 9 1/2 HRS. TRIP, MADE 254' IN LAST 24 HRS.
DMC:\$63. CMC:\$2945. DWC:\$6159. CWC:\$354,390.
- 4-10-89 DAY 16, 7139' 90% SAND, 10% SHALE, 100 UNITS CONN. GAS, 40 UNITS BACKGROUND GAS, 60,000 WOB, WT. 8.4, VIS. 24, PH 10, RPM'S 70 PUMP PRESS. 2,000, BIT #5 12 1/4", IN @ 6322' 29 HRS. ON BIT. 6811' 1 DEG., MADE 675' IN 23 1/4 HRS., 3/4 HR. SURVEY,
DMC:\$1277. CMC:\$4222. DWC:\$17,477. CWC:\$371,867.

4-11-89 DAY 17, 7623' 90% SAND 10% SHALE, 100 UNITS BACKGROUND GAS
160 UNITS CONN. GAS., 60,000 WOB, WT. 8.4, VIS. 28, PH 10.5
RPM'S 70, 2000 PUMP PRESSURE, BIT #5 12 1/4" MADE 1321' IN
51 1/4 HRS., SURVEY @ 7316' 1 DEG., MADE 484' IN LAST 24 HRS.
22 HRS. DRLG., 3/4 HR. SURVEY, 1 1/4 HRS. REPAIR SWIVEL.
DMC:\$61. CMC:\$4283. DWC:\$11,677. CWC:\$383,544.

4-12-89 8113' 100% SHALE, 80 UNITS BACKGROUND GAS, 150 UNITS CONN. GAS.
60,000 WOB, TRIP FOR HOLE IN PIPE, WT. 8.5, VIS. 28, PH 10.5
RPM'S 70, 2000 PUMP PRESSURE, BIT #5 12 1/4" HUGHES J-33 C
R0634, 2-15, 1-14 JETS. IN @ 6322' MADE 1791' IN 72 1/2 HRS.
SURVEY @ 7785' 1 1/2 DEG., MADE 490' IN LAST 24 HRS., 21 1/4
HRS. DRLG., 2 HRS. TRIP, 3/4 HR. SURVEY.
DMC:\$58. CMC:\$4341. DWC:\$11,818. CWC:\$395,362.

4-13-89 DAY #19, 8299' SAND & SHALE, PRESENT OPERATION: LAYING DOWN FISH,
WT. 8.5, VIS. 28, PH 9.0, RPM'S 70, 2000 PUMP PRESSURE, PUMP #1
6" X 9" 102 SPM, PUMP #2, 6" X8", 106 SPM, BIT #5, 12 1/4",
HUGHES J-33C, JETS 2-15, 1-14, IN @ 6322', OUT @ 8299', MADE
1972' IN 80 1/2 HRS., MADE 186' IN LAST 24 HRS.
HOURLY BREAKDOWN: 8 HRS. DRLG, TWIST OFF DRILL COLLAR @ 8299'
2 1/2 HRS. POOH, LEFT 9 DRILL COLLARS, 2 REAMERS & BIT IN HOLE.
5 1/2 HRS. PICK UP OVERSHOT & TRIP IN HOLE.
2 HRS. MILLING & FISHING DRILL COLLARS.
6 HRS. POOH WITH FISH.
DMC:\$501. CMC:\$4852. DWC:\$4965. CWC:\$400,327.

4-14-89 DAY #20, 8617' 90% SHALE, 10% LIME, 80 UNITS BACKGROUND GAS,
200 UNITS CONNECTION GAS, 1450 UNITS TRIP GAS, PRESENT OPERATION:
DRLG., MADE 318' IN LAST 24 HRS., WT. 8.5, VIS. 28, PH 10, 60,000
WOB, 60 RPM'S, 2000 PUMP PRESSURE, PUMP #1 6" X 9", 99SPM, PUMP
#2 6"X8", 102 SPM, BIT #5, 12 1/4", HP-53, JETS 2-15, 1-14, IN
@ 8299' MADE 318' IN 10 1/4 HRS., SURVEY @ 8361' 1 1/4 DEG.
HOURLY BREAKDOWN: 2 3/4 HRS. TOOH, 6 3/4 HRS. INSPECT DRILL
COLLARS, 2 HRS. PICK UP 13 NEW DRILL COLLARS, 1 HR. CUT DRLG. LINE
1 1/2 HRS. WASH TO BOTTOM, 1/2 HR. SURVEY, 10 1/4 HRS. DRLG.
DMC:\$46. CMC:\$4880. DWC:\$10,178 CWC:\$496,824.

4-15-89 9068' SHALE & LIME, BACKGROUND GAS- 50 UNITS, CONN. GAS. 110 UNITS
57,000 BIT WT. MUD WT. 8.5, VIS. 28, PH 10, RPM'S 57, PUMP PRESS.
2000, BIT #6 12 1/4" HP-53, (B60686) 2-15, 1-16 IN @ 8299', MADE
769' IN 33 1/2 HRS., SURVEY @ 8834' 2 DEG. MADE 451' IN LAST 24
HRS., 23 1/4 HRS. DRLG. 3/4 HR. SURVEY, DMC:\$51. CMC:\$4936.
DWC:\$10,875. CWC:\$507,699.

4-16-89 9277' SHALE & LIME, WOB 58,000, TRIP FOR BIT; WT. 8.5, VIS. 28,
PH 10, RPM'S 58 ; 2000 PUMP PRESS., BIT #6 12 1/4" OUT @ 9277'
MADE 978' IN 48 HRS., BIT #7 12 1/4" HUGHES J-33-C (RB656)
2-15, 1-14 JETS. IN @ 9277'; SURVEY @ 9277' 2 1/4 DEG., REAMER
@ 30 & 90, MADE 209' IN LAST 24 HRS., 14 1/2 HRS. TRIP, 9 1/2 HR.
TRIP, DMC:\$42. CMC:\$4981. DWC:\$5058. CWC:\$512,757.

4-17-89 9543' LIME & SHALE, 58,000 WOB, TRIP OUT FOR HOLE IN PIPE (49 STD)
WT. 8.5, VIS. 28, PH 10, RPM'S 58, BIT #7 IN 9277' MADE 266' IN
13 3/4 HRS. 8 1/4 HRS. WASH & REAM, 2 HRS. TRIP, 13 3/4 HRS. DRLG.
MADE 266' IN LAST 24 HRS. DMC:\$38. CMC:\$5019. DWC:\$6422.
CWC:\$519,179.

POKER LAKE "71" #1
DRILLING REPORT

BETTIS, BOYLE & STOVALL
PAGE 5

4-18-89 DAY #24, 9884', LIME, MADE 341' IN LAST 24 HRS. PRESENT OPERATION DRILLING. 120 UNITS BACKGROUND GAS, 280 UNITS CONN. GAS. WT. 8.5 VIS. 28, PH 10, RPM'S 58, 2000# PUMP PRESS. PUMP #1 6"X9"; PUMP #2, 6"X8". BIT #7 12 1/4", J-33C, JETS 2-15, 1-14, IN @ 9277' MADE 605' IN 35 1/2 HRS. SURVEY @ 9777' 1 1/2 DEG., HOURLY BREAKDOWN: 1 HR. POOH, FOUND WASHED OUT TOOL JOINT. 1/2 HRS. RIH, 3/4 HRS. SURVEY, 21 3/4 HRS. DRILLING.
DMC:\$789. CMC:\$5,808. DWC:\$8973. CWC:\$528,152.

4-19-89 DAY 25, 10,265' TRIPPING FOR HOLE IN PIPE. LIME & SHALE, 70 UNITS BACKGROUND GAS, 150 UNITS CONN. GAS. WT. 8.5, VIS. 28, PH 10, RPM'S 58, 2000 PUMP PRESS., BIT #7 12 1/4" J-33C, IN @ 9277' MADE 988' IN 58 HRS., MADE 380' IN LAST 24 HRS., 22 1/2 HRS. DRLG. 1 1/2 HRS TRIP. DMC:\$51. CMC:\$5859. DWC:\$9171. CWC:\$537,323.

4-20-89 DAY #26 10,593' SAND & LIME, 80 UNITS BACKGROUND GAS, 130 UNITS CONN. GAS, 58,000 WOB, PRESENT OPERATION: TRIP OUT OF HOLE, WT. 8.5, VIS. 28, PH 10, 58 RPM'S, 2000 PUMP PRESSURE, PUMP #1 6X9 96 SPM, PUMP #2, 6X8 99 SPM, BIT #7, 12 1/4", J-33C, JETS 2-15 1-14, IN @ 9277' MADE 1316' IN 78 HRS., SURVEY @ 10,248' 1 DEG. MADE 328' IN LAST 24 HRS., HOURLY BREAKDOWN: 20 HRS. DRLG., 3 1/2 HRS. TRIP, 1/2 HR. SURVEY.
DMC:\$48. CMC:\$5907. DWC:\$7920. CWC:\$545,243.

4-21-89 DAY #27, 10,860' 20% SHALE, 50% SAND & 30% LIME, MADE 267' IN LAST 24 HRS., PRESENT OPERATION: DRLG., WT. 8.5, VIS. 28, PH 10 WOB 65,000#, 58 RPM'S, 2000 PUMP PRESS. PUMP #1 94 SPM, PUMP #2 97 SPM, BIT #7 12 1/4", J-33C IN 9277' MADE 1583' IN 93 1/2 HRS. SURVEY @ 10,782' 1 1/2 DEG., HOURLY BREAKDOWN: 7 HRS. POOH FOR HOLE IN DRILL PIPE, FOUND HOLE @ 62 STANDS & HOLE @ 65 STANDS + 1 SINGLE. TRIP IN HOLE. 1/2 HR. SURVEY, 15 1/2 HRS. DRLG.
DMC:\$395. CMC:\$6302. DWC:\$6802. CWC:\$552,046.

4-22-89 DAY #28, 11,125' 40% LIME, 60% SHALE, TRACE SAND, BACKGROUND GAS 100 UNITS, CONN. GAS 180 UNITS, WOB 65,000#, WT.8.5, VIS. 28, PH 10, RPM'S 58, PUMP PRESS. 2000; BIT #7 12 1/2", HUGHES 33-C RB656, 2-15; 1-14 JETS. IN @ 9277' MADE 1844' IN 108 1/4 HRS. 7 3/4 HRS. 2 TRIPS FRO HOLE IN DRILL PIPE, 1 HR. CUT DRLG. LINE, 1/2 HR. RIG SERVICE, 14 3/4 HRS. DRLG. MADE 282' IN LAST 24 HRS.
DMC:0 ; CMC:\$6302. ; DWC:\$6768. CWC:\$558,814.

4-23-89 DAY #29, 11,145' TD, LOGGING W/SCHLUMBERGER, BIT #7 MADE 808' IN 109 3/4 HRS., 1 1/2 HR. DRLG. 5 1/2 HRS. TRIP FOR HOLE IN DRILL PIPE, 3 HRS. CIRC. FOR LOG, 4 HRS. TRIP OUT TO LOG, 1/2 HR. RIG UP LOGGERS, 9 HRS. LOGGING. LATERAL LOG 11,145-3753', DENSITY SAME, GAMMA RAY TO SURFACE.
DMC:\$3638. CMC:\$9940. DWC:\$7305. CWC:\$566,119.

4-24-89 11,145' 5 HRS. FINISH LOGGING, 11 HRS. LAY DOWN 300 JNTS. 5" DRILL PIPE, 1-8" DC'S, 2 HRS. RIG UP CASING, 6 HRS. RUN 9 5/8" 53.5# & 47# CSG. 163 JNTS. @ 6200'.
DMC:0, CMC:\$9940. DWC:\$18,070. CWC:\$584,189.

- 4-25-89 DAY #31, 11,145', PRESENT OPERATION: TESTING BOP, HOURLY BREAKDOWN: 7 HRS. RUN 9 5/8", 47# & 53.50# TO 11,145' 2 HRS. STRING UP 12 LINES, 1 HR. RIG UP DOWELL & CIRCULATE, 2 3/4 HRS. CMT. W/1700 SX 50/50 POZ MIX, 4% GEL, 13.5#, FULL RETURNS DURING COMPLETE CEMENT JOB, PLUG DOWN @ 6 PM, 4 3/4 HRS. RAISE STACK, SET SLIPS AND CUT OFF. 9 1/2 HRS. NIPPLE DOWN 5000# BOP AND EQUIPMENT, NIPPLE UP 10,000# BOP. TEST 10,000# BOP.
DMC:0, CMC:\$9940. DWC:\$43,447. CWC:\$627,636.
- 4-26-89 DAY 32, 11,145' PRESENT OPERATION: PICKING UP DRILL PIPE, BIT #8, 8 1/2", HUGHES J-44, SER.#A43HR, 3-11 JETS, IN @ 11,145'. HOURLY BREAKDOWN: 2 HRS. NIPPLE UP BOP & WELD ON FLOWLINES, 10 HRS. TEST BOP, UPPER & LOWER RAMS, CHOKE & KILL LINES TO 10,000 PSI. ONE SET OF RAMS DID NOT HOLD. REPLACE. RETEST & HELD. TEST HYDRILL TO 2500 PSI. HELD OK. 1 HR. PICK UP DRILLING ASSEMBLY, 11 HRS. PICK UP 27-7" DRILL COLLARS AND 324 JNTS. 4 1/2" DRILL PIPE.
DMC:0, CMC:\$9940. DWC:\$13,541. CWC:\$641,177.
- 4-27-89 DAY #33, 11,472' 50% LIME & 50% SHALE, 40 UNITS BACKGROUND GAS, 80 UNITS CONN. GAS, NO SHOW, MADE 327' IN LAST 24 HRS. 50,000 WOB, WT. 9.8, VIS. 28, PH 10, 181,000 CHL. 55 RPM'S 2000 PUMP PRESS. PUMP #1 6X9-100SPM, BIT #8 8 1/2", J-44C 3-11 JETS, IN @ 11,145' MADE 327' IN 19 1/4 HRS. HOURLY BREAKDOWN: 19 1/4 HRS. DRLG., 1 3/4 HRS. PICK UP DRILL PIPE 1 1/2 HRS. DISPLACE HOLE W/10# BRINE, 1/2 HRS. DRILL FLOAT COLLAR & SHOE.
DMC:\$1551. CMC:\$11,523. DWC:\$6051. CWC:\$647,228.
- 4-28-89 DAY #34, 11,820', 80% SHALE & 20% LIME, 40 UNITS BACKGROUND GAS, 140 UNITS CONN. GAS, MADE 348' IN LAST 24 HRS., PRESENT OPERATION: DRLG., WT. 10, VIS. 28, PH 9.5, 181,000 PPM CHL. 55 RPM'S, 50,000 WOB, PUMP #1 6"X9" 100 SPM, BIT #8 8 1/2" J-44C, IN @ 11,145' MADE 675' IN 42 1/2 HRS., SURVEY @ 11,578' 2 DEG., HOURLY BREAKDOWN: 23 1/4 HRS. DRLG., 3/4 HR. SURVEY.
DMC:\$0 CMC:\$11,533. DWC:\$9500. CWC:\$656,728.
- 4-29-89 12,190'
DAY #35, 60% SHALE, 40% LIME, BACKGROUND GAS 120 UNITS, CONN. GAS 180 UNITS, 50,000 WOB, DRILLING, WT. 10#, VIS. 28, PH 10 55 RPM'S, 2000 PUMP PRESS., BIT #8 8 1/2", J-44C, HUGHES, AH34R, 3-11 JETS, IN @ 11,145', MADE 1045' IN 65 3/4 HRS. SURVEY @ 11,860' 2 DEG., MADE 370' IN 23 1/4 HRS. DRLG. 3/4 HR. SURVEY.
DMC:\$13,161. CMC:\$24,694. DWC:\$17,661. CWC:\$674,389.

- 4-30-89 12,337' 60% SHALE, 40% LIME, BACKGROUND GAS 60, CONN. GAS 110 UNITS, TRIP GAS 1100 UNITS. 50,000 WOB, WT. 10#, VIS. 28, PH 10, 55 RPM'S, 2000 PUMP PRESS., BIT #8 IN 11,145' OUT @ 12,283', MADE 1138' IN 72 3/4 HRS., BIT #9 8 1/2", J-44C, HUGHES, H42HS, 3-11 JETS, IN @ 12,283, MADE 57' IN 7 HRS. SURVEY @ 12,207' 2 1/2 DEG., MADE 147' IN 14 HRS. DRLG. 3/4 HR. SURVEY, 1/4 HR. REPAIRS, 9 HRS. TRIP FOR BIT. DMC:\$79. CMC:\$24,773. DWC:\$8873. CWC:\$683,262.
- 5-1-89 DAY #37, 12,562' 90% SHALE 10% LIME, BACKGROUND GAS 110 UNITS, CONN. GAS. 200 UNITS, 50,000 WOB, WT. 10#, VIS. 28, PH 10 55 RPM'S, 2000 PUMP PRESS. BIT #9 IN @ 12,283' MADE 279' IN 31 HRS. MADE 225' IN LAST 24 HRS., 24 HRS. DRLG. DMC:0, CMC:\$24,773. DWC:\$8000. CWC:\$691,262.00
- 5-2-89 DAY #38, 12,737' 100% SHALE, BACKGROUND GAS 100 UNITS, CONN. GAS 140, WOB 50,000, DRLG. WT. 10. VIS. 28, PH 10, RPM'S 55, PUMP PRESS. 2000, BIT #9 IN @ 12,283' MADE 457' IN 54 1/4 HRS. SURVEY @ 12,582' 1 1/4 DEG., MADE 185' IN LAST 24 HRS. 23 1/4 HRS. DRLG. 3/4 HR. SURVEY. DMC:\$82. CMC:\$24,855. DWC:\$4582. CWC:\$695,844.
- 5-3-89 DAY #39, 12,970' 80% SHALE & 20% LIME, 80 UNITS BACKGROUND GAS, 150 UNITS CONN. GAS, PRESENT OPERATION: DRLG. WT. 10, VIS. 28, PH 10, 50,000 WOB, 55 RPM'S, 2000 PUMP PRESS., PUMP #1 97 SPM, BIT #9, 8 1/2", J-44C, 3-11 JETS, IN @ 12,283', MADE 687' IN LAST 24 HRS. DMC:\$217. CMC:\$25,072. DWC:\$4717. CWC:\$700,561.
- 5-4-89 DAY #40, 13,118', 70% LIME & 30% SHALE, 80 UNITS BACKGROUND GAS, 140 UNITS CONNECTION GAS, 1600 UNITS TRIP GAS, 2' FLARE DURING TRIP, SHALE GAS, WT. 10. VIS. 28, PH 10, 50,000 WOB, 55 RPM'S, 2000 PUMP PRESS. PUMP #1 96 SPM, BIT #9, 8 1/2" J-44C, OUT @ 13,090', MADE 807' IN 89 1/2 HRS., BIT #10 8 1/2", J-44C, 3-11 JETS, IN @ 13,090' MADE 28' IN 3 HRS. SURVEY @ 12,957' 1 1/2 DEG., MADE 148' IN LAST 24 HRS. HOURLY BREAKDOWN: 3/4 HRS. SURVEY, 9 HRS. POOH & TRIP IN HOLE FOR BIT CHANGE, 14 1/4 HRS. DRLG. DMC:\$55. CMC:\$25,127. DWC:\$8794. CWC:\$709,355.
- 5-5-89 DAY #41, 13,360' SHALE & LIME, PRESENT OPERATION: CIRC. SAMPLES WT. 10, VIS. 28, PH 10, 50,000 WOB, 55 RPM, 2000 PUMP PRESS. PUMP #1 96 SPM, BIT #11, 8 1/2", J-44C, IN @ 13,090', MADE 270' IN 25 3/4 HRS., MADE 242' IN LAST 24 HRS., HOURLY BREAKDOWN: 22 3/4 HRS. DRLG., 1 1/4 HRS. CIRC. SAMPLES. DMC:\$310. CMC:\$25,437. DWC:\$4500. CWC:\$713,855. TOP OF ATOKA BANK: 13,295' DRILLING BREAK: 13,295'-13,340', 80 UNITS BACKGROUND GAS, 130 UNITS CONN. GAS., 330 UNITS MAXIMUM GAS.

- 5-6-89 DAY #42, 13,360' 11.1 WT. 37 VIS., 8 WL. PH 10, 17,000 CHL.
BIT #10 8 1/2" HUGHES J44C (A29HR) 3-11 JETS, IN @ 13,090'
25 3/4 HRS., 18 1/2 HRS. CIRC. & COND., 1 1/4 HRS. SHORT TRIP
10 STANDS, 1 1/34 HRS. CIRC. (10' FILL), 2 1/2 HRS. TRIP FOR
DST.
DMC:\$14,694. CMC:\$40,131. DWC:\$19,194. CWC:\$733,049.
- 5-7-89 13,360' TRIP OUT WITH TEST TOOLS, 6 3/4 HRS. TRIP IN W/TOOLS
3 HRS. UNLOADING TOOLS, 1 1/4 HRS. CUT DRLG. LINE & RUN WATER
BLANKET, 1 1/2 HRS. PICKING UP HEAD. 9 1/2 HRS. TESTING, 4 HRS.
TRIP OUT.
DST #1 13,280'-13,300' 80' ANCHOR.
IHP 7573-7204
IFP 993-1060 30 MIN.
ISIP-3925-3808 1 HR.
FFP-1147-1146 4 HRS.
FSIP-4852-4921 4 HRS.
FHP-7573-7558
REC: 2000' WATER BLANKET, 558' MUD SAMPLER, 1200 PSI, NO FLUID,
17.918 CUBIC FT. DRY GAS, TEMP 183 DEG.F., 62 MCF FLARE @ SURFACE
2 3/4 HRS. TO SURFACE W/GAS ON FF. STRONG BLOW INSTANTLY, HIGHEST
DURING 1ST 30 MIN.-2ND FLOW 8# TO 46#.
- 5-8-89 DAY #44, 13,458' 20% SAND 20% SHALE 60% LIME, 50,000 WOB,
LOST 1000# PUMP PRESS. AND 10,000# WEIGHT (APPX. 3 DC'S) 10.8 WT.
34 VIS. 10.4 WL., PH. 9, 165,000 CHL. WOB 55,000#, PUMP PRESS.
1950#, BIT #10 IN @ 13,090' MADE 368' IN 40 1/4 HRS., 3 1/4 HRS.
TRIP OUT W/TOOLS, 3 3/4 HRS. TRIP IN W/DC'S & BIT. 1 HR. WASH TO
BOTTOM. 15 HRS. DRLG. 1 HR. CHAINING OUT OF HOLE, 98' IN LAST
24 HRS. BACKGROUND GAS 800 UNITS, CONN. GAS. 1000 UNITS.
850 UNITS TRIP GAS (10' FLARE).
DMC:\$3670. CMC:\$43,801. DWC:\$12,650. CWC:\$745,699.
- 5-9-89 DAY #45, 13,457' PRESENT OPERATION: INSPECTING DRILL COLLARS
WT. 10.8, VIS. 40, WL 10.4, PH 10, 160,000 PPM CHLORIDES,
BIT #10, 8 1/2", J-44C, 3-11 JETS, IN @ 13,090', MADE 367'
IN 39 3/4 HRS., HOURLY BREAKDOWN: 5 1/2 HRS. TRIP OUT OF HOLE
LEFT BIT & BIT SUB IN HOLE, 2 HRS. WAIT ON FISHING TOOLS,
3 1/2 HRS. TRIP IN WITH OVERSHOT & BUMPER SUB, 2 HRS. WASH
OVER FISH, 6 3/4 HRS. TRIP OUT OF HOLE, 4 HRS. INSPECTING
DRILL COLLARS.
DMC:\$5006. CMC:\$48,807. DWC:\$9506. CWC:\$755,705.
- 5-10-89 DAY #46, 13,537' 80% LIME 20% SHALE, BACKGROUND GAS 850 UNITS,
CONN. GAS 1150 UNITS, TRIP GAS 10' FLARE, 50,000 WOB, 8.9 MW.
VIS. 37, WL. 10, 9.5 PH, CHL. 162,000 PPM, 55 RPM'S, 2000 PUMP
PRESS. BIT #10 8 1/2" J-44C, (A29HR) 3-11 JETS IN @ 13,090'
MADE 467' IN 54 3/4 HRS., 1/2HR. CUT LINE, 2 HRS. WAIT ON 6
DRILL COLLARS, 1 HR. CHECKING DC'S, 3 3/4 HRS. PICK UP DC &
TRIP IN HOLE, 1/4 HR. WASH TO BOTTOM, 15 HRS. DRILLING, MADE
80' IN LAST 24 HRS.
DMC:\$0, CMC:\$48,807. DWC:\$4500. CWC:\$759,705.

- 5-11-89 DAY #47: 13,687' 90% LIME, 10% SHALE, 50,000 WOB, 10.9 WT. 37 VIS., 10 WL, PH 9.5, 162,000 PPM CHL., 55 RPM'S, 2000 PUMP PRESS., BIT #10 IN 13,090' MADE 597' IN 77 1/2 HRS. 650 UNITS BACKGROUND GAS, 750 UNITS CONN. GAS, MADE 150' IN LAST 24 HRS., 22 3/4 HRS. DRLG. 1 1/4 HRS. CHANGE ROTARY TORQUE WHEEL.
DMC:\$0, CMC:\$48,807. DWC:\$4500, CWC:\$764,205.
- 5-12-89 DAY # 48, 13,814', 90% LIME 10% SHALE, BACKGROUND GAS 750 UNITS, CONN. GAS 800 UNITS, WOB 50,000, DRILLING, WT. 10.9 VIS. 35, WL 14, PH 9.5, 165,000 CHL. 55 RPM'S, 2000 PUMP PRESS., BIT #10 IN 13,090' MADE 724' IN 101 1/2 HRS., MADE 127' IN LAST 24 HRS., 24 HRS. DRLG.
DMC:\$0 CMC:\$50,879. DWC:\$4500. CWC:\$768,705.
- 5-13-89 DAY #49, 13,895' 40% LIME, 60% SAND, 450 UNITS BACKGROUND GAS, 600 CONN. GAS, 1100 TRIP GAS, 15' FLAIR. WOB 50,000 11. WT. VIS. 37, WL 12, PH 9.5, 167,000 CHL. 55 RPM'S, 2000 PUMP PRESS. BIT #10, 8 1/2" HUGHES A29HR, 3-11 JETS, IN @ 13,000' OUT @ 13,874', 784' IN 111 3/4 HRS. BIT #11, 8 1/2" J-55, RL243 3-11 JETS, IN @ 13,874' MADE 21' IN 3 3/4 HRS., SUR.@13,874 3/4 D MADE 81' IN LAST 24 HRS., 14 HRS. DRLG., 3/4 HR. SURVEY, 9 HRS. TRIP, 1/4 HRS. WASH TO BOTTOM.
DMC:\$0, CMC:\$50,879. DWC:\$8794. CWC:\$777,499.
- 5-14-89 DAY #50, 14,013' 40% CHERT, 50% LIME, 10% SHALE, BACKGROUND GAS 350 UNITS, 500 UNITS CONN. GAS, NO SHOWS, WOB 50,000, WT. 11, VIS. 35, WATER LOSS 12, PH 9.5, 155,000 CHL. 55 RPM'S, 2000 PUMP PRESS. BIT #11 8 1/2" J-55, 3-11 JETS, IN @ 13,874' MADE 139' IN 27 1/4 HRS. MADE 118' IN 23 1/2 HRS. DRLG. 1/2 HR. RIG REPAIRS.
DMC:\$960. CMC:\$51,839. DWC:\$5460. CWC:\$782,959.
- 5-15-89 DAY #51, 14,116' 80% SHALE 20% LIME, BACKGROUND GAS 380 UNITS. 540 UNITS CONN. GAS. SHOW 14,026'-14,034' 8' 80 UNITS INCREASE 2"/FT SAND. WOB 50,000; WT. 11. VIS. 36, WL 8.4, PH 10, 161,000 CHL., RPM'S 55, 2000 PUMP PRESS., BIT #11, 8 1/2" J-55 IN @ 13,874' MADE 242' IN 51 1/4 HRS. MADE 103' IN LAST 24 HRS.
DMC:\$1436. CMC:\$53,185. DWC:\$5846. CWC:\$788,805.
- 5-16-89 DAY #52, 14,189' 50% SHALE, 50,000 WOB, BACKGROUND GAS 350 UNITS, CONN. GAS 600 UNITS, WT. 11, VIS. 36, WL. 10, PH 9.5, 167,000 CHL RPM'S 55, PUMP PRESSURE 2,000#, BIT #11, J-55, IN @ 13,824' MADE 315' IN 75 1/4 HRS., MADE 73' IN LAST 24 HRS. 24 HRS. DRLG.
DMC:\$0 CMC:\$53,185. DWC:\$4500 CWC:\$793,505.
- 5-17-89 DAY #53, 14313', 90% SHALE, 10% LIME, 350 UNITS BACKGROUND GAS 600 UNITS CONN. GAS, TRIP FOR BIT, WOB 50,000#, WT. 10.9, VIS.38 WL. 9.2, PH 9.5, 167,000 CHL., 55 RPM'S, PUMP PRESS. 2000. BIT #11, 8 1/2" J-55 RL243, 3-11 JETS, IN @ 13,874' OUT 14,313' MADE 495' IN 95 1/4 HRS., SHOW 14,186'-238', 35' 4 MIN/FT. MADE 124' IN LAST 24 HRS. 20 HRS. DRLG. 4 HRS. TRIP OUT.
DMC:\$946. CMC:\$54,131. DWC:\$5436. CWC:\$798,751.

- 5-18-89 14,405' 20% SAND, 10% LIME, 70% SHALE, 380 UNITS BACKGROUND GAS, 480 UNITS CONN. GAS, 1100 TRIP GAS, 15' FLARE, NOT AS MUCH GAS AS USUAL. WT. 10.8, 50,000 WOB, VIS. 37, WL 8.4 PH 10, 160,000 CHL. 55 RPM'S, 2000 PUMP PRESS., BIT #12 8 1/2", J-55, NN304 3-11 JETS, IN @ 14,313' MADE 92' IN 18 3/4 HRS., 14,339'-57' 12 MIN/FT. DOWN TO 2 MIN/FT. MADE 92' IN LAST 24 HRS. 18 3/4 HRS. DRLG., 4 1/2 HRS. TRIP, 1/2 HR. WASH TO BOTTOM, 1/4 HR. CHANGE OUT ROTATING HEAD.
DMC:0 CMC:\$54,131. DWC:\$4500. CWC:\$1,059,586.
- 5-19-89 DAY #55, 14,528', 20% SHALE, 60% SAND, 20% LIME, 160 UNITS BACKGROUND GAS, 500 UNITS CONN. GAS, MADE 123' IN LAST 24 HRS. 50,000 WOB, 10.8 WT., VIS. 37, WL. 10, PH 9. 158,000 PPM CHL. 2000 PUMP PRESS. PUMP #1 6"X 9" 90 SPM, BIT #12, 8 1/2", J-55 3-11 JETS, IN @ 14,313', MADE 215' IN 42 3/4 HRS.
DMC:\$2443. CMC:\$56,574. DWC:\$4500. CWC:\$1,064,086.
- 5-20-89 DAY #56, 14,612'; 50% SHALE, 20% SAND, 30% LIME, 520 UNITS BACKGROUND GAS, 640 UNITS CONNECTION GAS, PRESENT OPERATION: DRILLING, MADE 84' IN LAST 24 HRS., WT. 10.9, VIS. 37, WL 9 PH 9.0, 164,000 CHL. 50,000 WOB, 55 RPM'S, 2000 PUMP PRESS. PUMP #1 6"X9", 90 SPM, BIT #12, 8 1/2", J-55, 3-11 JETS, IN @ 14,313', MADE 299' IN 66 3/4 HRS., HOURLY BREAKDOWN: 24 HRS. DRLG.
DMC:\$1557. CMC:\$58,131. DWC:\$6057. CWC:\$1,070,143.
- 5-21-89 DAY #57, 14,695' 80% SHALE, 10% SAND, 10% LIME, 550 UNITS BACKGROUND GAS, 660 UNITS CONN. GAS, PRESENT OPERATION: DRLG. MADE 83' IN LAST 24 HRS., WT. 10.8, VIS. 38, WL 11, PH 8.5 148,000 PPM CHL., 50,000 WOB, 55 RPM'S, 2000 PUMP PRESS. PUMP #1, 6"X9" 90 SPM, BIT #12, 8 1/2", J-55, 3-11 JETS, IN @ 14,313', MADE 382' IN 90 3/4 HRS., HOURLY BREAKDOWN: 24 HRS. DRLG.
DMC:\$1755. CMC:\$59,886. DWC:\$6255. CWC:\$1,076,397.
- 5-22-89 DAY #58, 14,792' 40% LIME, 40% SAND, 20% SHALE, 480 UNITS BACKGROUND GAS, 640 UNITS CONN. GAS. PRESENT OPERATION: CIRCULATING & CONDITIONING HOLE FOR LOGGING, MADE 97' IN LAST 24 HRS., WT. 10.9, VIS. 38, WL 14.2, PH 8.5, 141,000 PPM CHL. 50,000 WOB, 55 RPM'S, 2000 PUMP PRESS. PUMP #1 90 SPM, BIT #12 8 1/2", J-55, 3-11 JETS, IN @ 14,313' AMDE 479' IN 114 1/2 HRS HOURLY BREAKDOWN: 23 3/4 HRS. DRLG., 1/4 HR. CIRC. & COND. HOLE FOR LOGS.
DMC:\$961. CMC:\$60,847. DWC:\$5461. CWC:\$1,081,858.
- 5-23-89 14,808' DRLG. 20% LIME, 30% SAND, 50% SHALE, 60,000 WOB, BIT #8 RERUN 8 1/2" J-44C, A-43HR, MADE 16' IN 3 1/4 HRS. RAN DENSITY 14,793-11,145' DLL 14,793-11,145', MADE 16' IN LAST 24 HRS., 3 1/4 HRS. DRLG, 2 1/2 HRS. CIRC. & COND. MUD, 11 1/2 HR. TRIP, 1/2 HR. CUT DRLG. LINE., 6 HRS. LOGGING. 1 1/4 HRS. WASH TO BOTTOM.
DMC:\$0, CMC:\$60,847. DWC:\$17,610. CWC:\$1,099,468.

- 5-24-89 DAY #60, 14,822' T.D. PRESENT OPERATION: CEMENTING 5 1/2" PROD. LINER, WT. 10.0, VIS. 39, WL. 14, PH 9.5, 141,000 PPM CHL. BIT #8, RE-RUN, 8 1/2", IN @ 14,792' OUT @ 14,822', MADE 30' IN 5 HRS. HOURLY BREAKDOWN: 1 3/4 HRS. DRLG., 2 1/2 HRS. CIRC. & COND. HOLE. 4 3/4 HRS. TRIP OUT OF HOLE, 5 1/2 HRS. RUN 103 JNTS 3865', 5 1/2", 23#, P-110. 5 1/2 HRS. TRIP IN HOLE W/DRILL PIPE 2 1/2 HRS. CIRC. HOLE, 1/2 HR. CUT DRLG. LINE, 1/2 HR. SET LINER HANGER. TOP OF LINER @ 10,952', 1/2 HR. BATCH MIXING CMT. DMC:\$0, CMC:\$60,847. DWC:\$5638. CWC:\$1,105,106.
- 5-25-89 14,822' CHAINING OUT W/RTTS TOOL, WT. 10.9, VIS. 40, WL 21, PH 9.0, 144,000 CHL. SQUEEZE TOP 10 BBLs. SUPER FLUSH, 200 SX CLASS H .6% HALAD 9, PRESSURE UP TO 4000 PSI-HELD. 7 HRS. TRIP, 2 HRS. CMT., 7 1/2 HRS. WOC, 2 1/2 HRS. SQUEEZING, 5 HRS. REVERSING. DMC:0, CMC:\$60,847. DWC:\$51,923. CWC:\$1,157,029.
- 5-26-89 14,822' LAY DOWN DRILL PIPE, 8.3 WT. 28 VIS., 4 1/2 HRS. CHAIN OUT WITH RTTS TOOL, 3 1/2 HRS. TRIP IN HOLE W/BIT, 2 HRS. RIG REPAIR, 4 1/2 HRS. DRLG. GOOD CMT. FROM 10,750' TO 10,952' TESTED TO 3000# HELD OK. 2 HRS. DISPLACE W/FRESH WATER, 8 HRS. LAY DOWN DRILL PIPE. DMC:\$0, CMC:\$60,847. DWC:\$4500. CWC:\$1,161,529.
- 6-6-89 MOVE IN RIG UP COBRA WELL SERVICE & STAR CO. REVERSE UNIT. RACKED 462 JNTS. 2 7/8" 6.5#/FT. P-105 CS HYDRIL TBG. RIG UP 7 1/6 5000 PSI BOP, TESTED BLIND RAMS TO 2000#, SET 2-500 BBL. TANKS, FILL WITH 2% KCL PKR FLUID, PICK UP 4 1/2" BIT, 6-3 1/8" DRILL COLLARS & 196 JNTS. TUBING. SHUT IN @ 6 PM.
- 6-7-89 PICKUP TO TOP OF 5 1/2" LINER @ 10,952' KB, DRILL OUT 15' OF CEMENT ON TOP OF LINER. CIRC. BOTTOMS UP. CIRC. OFF GAS, 1 HR. W/O DECREASING THEN PUMP 50 BBLs. DOWN TBG., DID NOT DECREASE, BREAK OFF SWIVEL, WENT IN HOLE. QUIT GASING WITH 10 JNTS INSIDE LINER. TRIP IN HOLE TO PBTD @ 14,779' KB, SHUT DOWN @ 6 PM. DCC:\$1812. CCC:\$9710.
- 6-8-89 REVERSE CIRC. @ 14,779', CIRC. DRILLING MUD FROM LINER. PULL UP TO 14,765', CIRC. 500 GAL. 15% HCL TO BOTTOM, REVERSE OUT TO CLEAN TBG., PULL UP TO 14,540', CIRC. HOLE W/880 BBLs. 2% KCL & 1 GAL/100 CORROSIVE INNHIBITOR, SPOT 250 GAL. 10% ACIDIC @ 14,540'. PULL TBG. TO 14,380' REVERSE OUT EXCESS ACID. PULL 50 STANDS OF TBG. SHUT DOWN @ 6 PM. DCC:\$4107. CCC:\$13,817.
- 6-9-89 POOH WITH TUBING, LAY DOWN COLLARS AND BIT. RIG UP WESTERN ATLAS WIRELINE. WENT IN HOLE WITH CEMENT BOND LOG TOOL. COULD NOT GET INTO LINER TOP. POOH WITH CBL TOOL. RE-CENTRALIZE TOOL. WENT BACK IN HOLE W/CBL. RAN CEMENT BOND LOG FROM 14,780' TO 9500'. SHUT DOWN @ 6.45PM. DCC:\$7954. CCC:\$21,771.
- 6-10-89 RAN VANN GUN, 5 1/2 X 2 7/8" BAKER LOCKSET ER RECEPTICLE. 169 STANDS OF TBG., TESTED TO 10,000# TO TOP OF LINER @ 10,952'. ATTEMPTED FOR 2 HRS. TO GET THRU TOP OF LINER-NO SUCCESS. SHUT DOWN @ 5:30 PM. DWC:4691. CWC:\$26,462.