

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO.  
30-025-33246

Indicate Type of Lease

STATE ☒

FEE ☐

State Oil & Gas Lease No.

Lease Name or Unit Agreement Name

Shell State

Well No.  
3

Pool name or Wildcat  
Red Tank Delaware West / Red Tank Bone Spring

**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"  
(FORM C-101) FOR SUCH PROPOSALS.)

Type of Well:

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

Name of Operator  
Pogo Producing Company

Address of Operator  
P. O. Box 10340, Midland, TX 79702-7340

Well Location

Unit Letter F : 1980 Feet From The North Line and 2310 Feet From The West Line

Section 36 Township 22 Range 32 NMPM Lea County

Elevation (Show whether DF, RKB, RT, GR, etc.)  
3731'

11

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

### NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

### SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

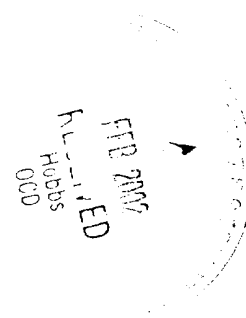
PLUG AND ANBANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Drilling report attached for record only.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*Cathy Tomberlin*

TITLE Sr. Operation Tech

DATE 02-05-02

TYPE OR PRINT NAME Cathy Tomberlin

TELEPHONE NO. 915-685-8100

(This space for State Use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

ORIGINAL SIGNED BY  
PAUL F. KAUTZ  
PETROLEUM ENGINEER

FEB 11 2002  
DATE

# STRATA PRODUCTION COMPANY

SHELL STATE #3  
1980' FNL & 2310' FWL  
Section 36-22S-32E  
Lea County, New Mexico

McGee Drilling Rig #2  
Elevation = 3731'  
KB = 3747'  
Bootleg Ridge Project

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- 03/25/96: MI Globe Construction. Build loc.
- 03/26/96: Build loc.
- 03/27/96: Build loc.
- 03/28/96: Build loc.
- 03/29/96: Finish loc. Drld 40' of starting hole. Ran 1 jt (40') 26" 52.73# K55 conductor pipe. Cmt'd at 40' w/2 3/4 cu yds Ready Mix. WOR. TEMPORARILY DROPPED FROM REPORTS UNTIL SPUD.
- 06/20/96: MIRU McGee Drilling Rig #2. Prep to spud. Spud 17 1/2" hole at 11:30 AM on 6/19/96. Drlg at 760', formation Redbed, ftg made 760'. Ran Totco at 322' 1°. Mud wt 8.5-8.9, Vis 33-36. Bit wt All, RPM 70-80, Bit #1, Serial #W20BW, Type 6ATX, Jets (3) 12, Depth in 0', 18 3/4 hrs, ftg 760'. Pump type DB-550, SPM 62, Liner 5 1/2" x 16", Press 1050#. DC #17, 8", 610', 68,000#. Water loads (17) fresh and (19) brine. Working thru tight spots in Redbed. MIRU 5 hrs, Rot 18 3/4 hrs, Totco 1/4 hr. DC \$76,382. CC \$76,382.
- 06/21/96: TIH w/BHA at 848', ftg made 88'. Ran Totco at 822' 1 3/4°. Bit wt All, RPM 70-80, Bit #1, 17 1/2", Serial #W20BW, Type ATX, Jets (3) 12, Depth out 848', Depth in 0', 21 3/4 hrs, ftg 848'. Bit #2, 11", Serial #419135, Type 53PF, Jets (3) 13, Depth in 848'. Pump type DB550, SPM 62, Liner 5 1/2" x 16", Press 1050#. DC #17, 8", 610', 68,000#. Water loads (5) fresh. Ran 24 jts (863.36') 13 3/8" 48#, H40 csg. Cmt'd at 848' w/900 sx Premium Plus w/2% D46, 1/4#/sx D29 and 2% CaCL. Circ 250 sx cmt to pit. PD at 4:00 PM on 6/20/96. WOC. Rot 3 1/2 hrs, Trip 4 hrs, Circ 1 hr, Csg and Cmt 3 1/2 hrs, Totco 1/4 hr, WOC 11 3/4 hrs. DC \$10,820. CC \$87,202.
- 06/22/96: Drlg 40'-50'/hr at 1820', formation Anhydrite and Salt, ftg made 972'. Ran Totco at 1298' 1°. Mud wt 10, Vis 29, Ph 10. Bit wt 50, RPM 65-70, Bit #2, 20 1/4 hrs, ftg 972'. DC #17, 8", 519', 68,000#. Water loads (4) brine and (3) fresh. Test pipe rams to 1000#. Held OK. Drl out plug and cmt. Rot 20 1/4 hrs, Trip 1 3/4 hrs, Totco 1/2 hr, Test BOP 1/2 hr, Drl Plug and Cmt 1 hr. DC \$16,525. CC \$103,727.
- 6/23/96: Drlg 25'-50'/hr at 3045', formation Anhydrite and Salt, ftg made 1225'. Ran Totco at 1770' 1/2°, 2265' 1/2° and 2741' 1/2°. Mud wt 10, Vis 29, Ph 10. Bit wt 20-55, RPM 65-70, Bit #2, 43 1/2 hrs, ftg 2197'. Rot 23 1/4 hrs, Totco 3/4 hr. DC \$18,492. CC \$122,219.
- 06/24/96: Drlg 25'-30'/hr at 3785', formation Salt and Anhydrite, ftg made 740'. Ran Totco at 3239' 1 1/4° and 3711' 1/4°. Mud wt 10, Vis 29, Ph 10. Bit wt 20-55, RPM 65-70, Bit #2, 66 3/4 hrs, ftg 2937'. Water loads (2) fresh. Rot 23 1/4 hrs, Totco 3/4 hr. DC \$18,200. CC \$140,419.

2002  
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Hobbs  
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- 06/25/96: Circ to run intermediate csg at 4662', formation Anhydrite and Salt, ftg made 877'. Ran Totco at 4183' 2°. Mud wt 10, Vis 29, Ph 10. Bit wt 20-55, RPM 65, Bit #2, 11", Serial #419135, Type 53PF, Jets (3) 13, Depth out 4662', Depth in 848', 90 hrs, ftg 3814'. Water loads (2) fresh. TD intermediate hole at 5:30 AM on 6/25/96. Del 8 5/8" csg to loc. Rot 23 hrs, Totco 1/2 hr, Circ 1/2 hr. DC \$69,917. CC \$210,336
- 06/26/96: PU 6" DC at 4662'. Ran Totco at 4662' 3°. Mud wt 8.7, Vis 29, Ph 9 w/cut brine. Bit #3, 7 7/8", Serial #A19618, Type 62 CF, Jets (3) 13, Depth in 4662'. DC #30, 6", 870', 67,000#. Water loads (20) fresh. Ran 16 jts (688.45') HCK55 and 89 jts (3978.71') K55 total (4667.16') 8 5/8" 32# csg. Cmt'd at 4662' w/1500 sx 35/65 Poz "C" w/15#/sx D44, 6% D20, 1/4#/sx D29 and .2% D46. Tail in w/200 sx Class "C" w/2% CaCL. Circ 100 sx cmt to pit. PD at 8:00 PM on 6/25/96. WOC. Test BOP, pipe rams and choke manifold to 1000#. Held OK. Circ 2 1/4 hrs, Trip 3 3/4 hrs, Run Csg and Cmt 8 hrs, WOC 10 hrs. DC \$35,360. CC \$245,696.
- 06/27/96: Drlg 30'-35'/hr at 5333', formation Salt, ftg made 671'. Ran Totco at 5161' 1 3/4°. Mud wt 8.6, Vis 28, WL NC, KCL 3%, Nitrate 38 PPM, Ph 10, CL 30,000-40,000. Bit wt 50-60, RPM 65, Bit #3, 19 1/2 hrs, ftg 671'. Pump type DB550, SPM 61, Liner 5 1/2" x 16", Press 1150#. DC #30, 6", 872.46', 67,000#. Water loads (5) fresh. Drl out plug and 50' of cmt. Mudloggers on loc. Rot 19 1/2 hrs, Trip 2 1/2 hrs, Totco 1/2 hr, Drl Plug and Cmt 1 1/2 hr. DC \$12,552. CC \$258,248.
- 06/28/96: Drlg 30'-45'/hr at 6255', formation Sand, Shale and Lime, ftg made 922'. Ran Totco at 5660' 1 1/4° and 6137' 3/4°. Mud wt 8.8+, Vis 28, WL NC, KCL 3%, Nitrate 20 PPM, Ph 10, CL 40,000-50,000. Bit wt 50-60, RPM 65, Bit #3, 42 1/2 hrs, ftg 1593', PP 1200#. Water loads (1) fresh. BGG 5-6 units. CG 14 units. Rot 23 hrs, Totco 1 hr. DC \$16,044. CC \$274,292.
- 06/29/96: Drlg 20'-30'/hr at 7125', formation Sand, ftg made 870'. Ran Totco at 6609' 1/2°. Mud wt 8.8, Vis 28, WL 30, FC 2/32, KCL 3%, Nitrate 20 PPM, Ph 10, CL 48,000. Bit wt 50-60, RPM 65, Bit #3, 66 hrs, ftg 2463', Press 1250#. BGG 15-20 units. CG 28-30 units. Drlg break at 6746'-6760', 14', 1 1/2 - 1 - 1 1/2 min/ft, Oil show, Gas 15-145-15 units and 6852'-6862', 10', 1 1/4 - 1 - 1 1/2 min/ft, Fair show, Gas 15-82-20 units. Rot 23 1/2 hrs, Totco 1/2 hr. DC \$15,657. CC \$289,949.
- 06/30/96: Drlg 20'-25'/hr at 7652', formation Lime and Shale, ftg made 527'. Ran Totco at 7109' 1°. Mud wt 8.8, Vis 29, WL 16, FC Film, KCL 3%, Nitrate 24 PPM, Ph 9.5, CL 54,000. Bit wt 50-60, RPM 65, Bit #3, 86 1/2 hrs, ftg 2990'. Water loads (6) fresh. BGG 15-20 units, CG 30 units. Drlg break at 7430'-7440', 10', 2 1/2 - 1 1/2 - 2 1/2 min/ft, Gas 10-60-12 units, No show. Rot 20 1/2 hrs, Totco 1/2 hr, Change Fuel Injection Pump on #2 Engine and Turbo on #1 Engine 3 hrs. DC \$15,172. CC \$305,121.

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- 07/01/96: WO Magnet at 8079', formation Lime and Shale, ftg made 427'. Ran Totco at 7601' 1 1/2° and 8079' 1°. Mud wt 8.8, Vis 29, WL 16, FC Film, KCL 3%, Nitrate 24 PPM, Ph 10, CL 54,000. Bit wt 50-60, RPM 65, Bit #3, Serial #AT19618, Type 62CF WM, Jets (3) 13, Depth out 8079', Depth in 4662', 103 hrs, ftg 3417'. Water loads (2) fresh. BGG 10-15 units. CG 25-30 units. No shows. WO magnet to fish cone and shank. Rot 16 1/2 hrs, Trip 3 hrs, Totco 1/2 hr, Circ 1 hr, WOT 2 hrs, Repair #1 Motor 1 hr.  
DC \$7,715. CC \$312,836.
- 07/02/96: Drlg 2'-25'/hr at 8480', formation Sand, Lime and Shale, ftg made 401'. Mud wt 8.9, Vis 28, WL 16, FC Film, KCL 3%, Nitrate 24 PPM, Ph 9.5, CL 54,000. Bit wt 55, RPM 65, Bit #4, Serial #A20731, Type 62CF WM, Jets (3) 13, Depth in 8079', 13 1/4 hrs, ftg 401'. Pump type DB550, SPM 62, Liner 5 1/2" X 16", Press 1300#. DC #30, 6", 872.46', 67,000#. Water loads (3) fresh. TIH w/magnet to retrieve bit cone and shank. BGG 9 units. CG 15 units. Drlg break in "K" sand at 8356'-8364', 1 1/2 - 1/2 - 1 1/2 min/ft, Gas 9-70-15 units, Poor to Fair cut. Rot 13 1/4 hrs, Trip 9 3/4 hrs, WOT 1 hr.  
DC \$9,987. CC \$322,823.
- 07/03/96: TOH for logs at 8950' TD, ftg made 470'. Ran Totco at 8552' 1 1/2°. Mud wt 8.9, Vis 29, WL 15, FC Film, KCL 3%, Nitrate 24 PPM, Ph 8.5, CL 60,000. Bit wt 55, RPM 65, Bit #4, Serial #A20731, Type 62CF WM, Jets (3) 13, Depth out 8950', Depth in 8079', 34 1/4 hrs, ftg 871', Press 1350#. TD 7 7/8" hole at 8950' at 3:15 AM on 7/3/96. BGG 20-50 units, CG 35-100 units. Drlg break at 8642'-8647', 5', 2.8/1.75/2.7 min/ft, Gas 50/165/51 units and 8846'-8854', 8', 3.6/1.2/3.5 min/ft, Gas 54/145/33 units. Rot 20 3/4 hrs, Circ 2 hrs, Trip 3/4 hr, Totco 1/2 hr.  
DC \$8,961. CC \$331,784.
- 07/04/96: Logging at 8950' TD. Ran Totco at 8950' 1/2°. Mud wt 8.9, Vis 29, WL 15, FC Film, KCL 3%, Nitrate 22 PPM, Ph 8.5, CL 60,000. RU Dresser Atlas. Run CNL, FDC, DDL, MSFL and LLS logs w/GR. Caliper cut 41 sidewall cores. Del 5 1/2" csg. Trip 4 hrs, Logging 20 hrs.  
DC \$61,083. CC \$392,867.
- 07/05/96: 8950' TD. Mud wt 8.9, Vis 29, WL 15, FC Film, KCL 3%, Nitrate 22 PPM, Ph 8.5, CL 60,000, Press 1350#. Hole in kelly hose. Replace w/new kelly hose. Logging 17 hrs, Trip 3 1/4 hrs, Repairs 3 3/4 hrs.  
DC \$31,320. CC \$424,187.
- 07/06/96: 9050' TD, ftg made 100'. Mud wt 8.9, Vis 29, WL 15, FC Film, KCL 3%, Nitrate 22 PPM, Ph 8.5, CL 60,000. Bit wt 55, RPM 65, Bit #5, Serial #SNA18857, Type 62CF WM, Jets (3) 13, Depth out 9050', Depth in 8950', 4 1/2 hrs, ftg 100'. Water loads (2) fresh. Repair kelly hose. Drl 100' for rathole since bottom zone too close to 8950' TD. LDDP and DC. Running 5 1/2" csg. Rot 4 1/2 hrs, Circ 2 hrs, LDDP and DC 7 hrs, WOT 3/4 hr, Repairs 1 3/4 hr, Run csg 8 hrs.  
DC \$10,787. CC \$434,974.

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- 07/07/96: 9050' TD. Ran 55 jts (2242.92') N80 and 157 jts (6817.23') J55 (Total 9060.15') 5 1/2" 17# csg. Cmtd at 9050' First Stage w/570 sx 50/50 Poz Mix w/5#/sx D44, .3% D60, 2 1/2#/sx B28, 1/4#/sx D29 and .2% D46. Tail in w/105 sx gas block cmt. Circ 250 sx cmt to pit. PD at 8:00 AM on 7/6/96. Set DV tool at 6475.51'. Cmtd Second Stage w/375 sx 35/65 Poz Mix w/6% D20, 8#/sx D44 and 1/4#/sx D29. Tail in w/100 sx Class "C" Neat. PD at 2:00 PM on 7/6/96. PBTD 9024.65'. Est TOC 4000'. WOC. Rel rig at 8:00 PM on 7/6/96. RD. Set Slips, Cut Off, NU "C" Section and Jet Pits. Circ 4 3/4 hrs, Run Csg and Cmt 2 1/4 hrs, RD 6 hrs. DC \$36,026. CC \$471,000.
- 07/08/96: WOC. SD.
- 07/09/96: WOO. SD.
- 07/10/96: WOO. SD.
- 07/11/96: WOO. SD.
- 07/12/96: WOCU. SD.
- 07/13/96: WOCU. SD.
- 07/14/96: WOCU. SD.
- 07/15/96: WOO. SD.
- 07/16/96: WOO. SD.
- 07/17/96: WOO. SD.
- 07/18/96: WOO. SD.
- 07/19/96: WOO. SD.
- 07/20/96: WOO. SD.
- 07/21/96: WOO. SD.
- 07/22/96: MI. T&C set anchors. Superior cleaned location and filled cellar. RU Cobra Well Service. Prep to complete. NU BOP. Bearing Service del 292 jts new 2 7/8" 6.5# J55 tbg. Lea Fishing Tool set reverse unit and pipe racks. PU 4 3/4" bit, bit sub, and (4) 3 1/2" DC. TIH w/tbg. Tag cmt at 6390'. XL filled reverse pit. SISD.
- 07/23/96: RU Lea Fishing Tools. Drl cmt from 6390'-6486'. Drl out DV Tool at 6486'. Circ hole clean. Test to 1000# for 15 min. Held OK. TIH and clean out to 8997'. Circ hole clean. TOH w/tbg. LDCC and bit. RU Computalog. TIH w/CBL Tools. Pressure csg to 1000#. Run CBL under pressure. TOC at 4000' w/good bond. T&C set frac tanks and filled 1 tank w/450 bbls 2% KCL water. SISD.

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- 07/24/96: RU Computalog. TIH w/4" Selectfire csg gun. Perf (29) .42 holes as follows: (8840', 41', 42', 43', 44', 45', 46', 47', 48', 49', 50') 64', 65', 66', 67', 68', 69', 70', 71', 72', 74', 75', 76', 77', 78', 79', 80', 81' and 8882'. TOH w/guns. PU and TIH w/5 1/2" pkr. Set pkr at 8890'. Prep to circ and spot acid. RU Dowell. Spot 2 bbls acid across perfs. Pull 5 jts tbg. Set pkr at 8725'. Breakdown perfs at 2580#. RU CO<sub>2</sub> Inc. Swab to 6000' w/gas show. Acidize w/3000 gal 7 1/2% NEFE acid and 20 tons CO<sub>2</sub> w/28 ball sealers. Good ball action. Avg acid rate 3 BPM. Avg CO<sub>2</sub> rate 3 BPM. Avg PSI 2050#. Max PSI 3170#. ISDP 1520#, 5 min 1400#. Flow back. Rec 45 BLW. Died at 9:00 PM. RU swab. FL at +/- 8000', 800' above SN. Rec LW. SISD at 10:00 PM.
- 07/25/96: TP 125#. FL 7550'. RU swab. Swab back 4 BLW w/30% oil cut. Swabbing. EOD, FE 300'/hr w/80% oil cut. Rec 71 BLW w/40 BLW to rec. SISD.
- 07/26/96: TP 170#. FL 7522'. Pulled 4 BTF w/50% oil cut and LW on first swab run. Swab down. FE 300'/hr w/80% oil cut. RU Keltic Services. Prep to run BHP test. SISD.
- 07/27/96: TP 160#. Flow down. Run BHP test tools and pressure bomb. SI at 9:30 AM. Run BHP test. SD.
- 07/28/96: SIP 155#. Run BHP test. SD.
- 07/29/96: SIP 240#. Run BHP test. Pressure building. SD.
- 07/30/96: SIP 340#. Run BHP test. WOT. SD.
- 07/31/96: FSIP 390#. RD Keltic. Pull pressure bomb and run static. RU swab. FL 3700'. Pull 6 BO. Open by-pass. Equalize well and flow back. Rel pkr TOH w/tbg. ND BOP. RU Dowell. Prep to frac perfs at 8840'-8882' via 5 1/2" csg. ProTechnics tagged sand w/IR192. Load csg. Run 10,000 gal pad. Ramp sand 1-8 PPG at 25 BPM. Place 61,139# 20/40 sand on formation. Lost motor on PCM/Dowell. Cut sand and flush. Tag w/31 MC IR192. Avg flush rate 10 BPM. Avg treating rate 25 BPM. ISDP 1670#. No 15 min SIP. SI. Approx 800 BLW to rec. Open up to frac tank at 7:00 PM w/540# CP. Flow to tank. SISD.
- 08/01/96: CP 0#. RU X-L. Tag sand at +/- 8890'. Circ 100' of sand. Circ hole clean. PU and prep to swab. Loaded hole w/approx 50 bbls. FL 2700'. Swabbing. Swab 108 BTF to pit w/10% oil cut. Swab 80 BTF to frac tank w/30 BO and 50 BLW. EOD, scattered fluid at 3700' and solid fluid at +/- 5000' w/40% oil cut and good gas. Rec 30 BO and 158 BLW w/642 BLW to rec.

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- 08/02/96: TP 660#. CP 500#. Flow down. Rec 5 BO. RU swab. FL 3200'. Pull 6 BO. TOH w/tbg. ND BOP. Prep to re-frac. RU Dowell. Frac via 5 1/2" csg w/60,000 gal YF130 and 135,000# 20/40 sand. Max treating PSI 3100#. Min treating PSI 1250#. Avg treating PSI 1750#. Avg rate 25 BPM. ISDP 2300#, 5 min 2140#, 10 min 2080#, 15 min 2018#. SI. RD Dowell. Open up at 8:00 PM w/1400# CP. Total 1188 BLW to rec. Flow down. ND frac valve. NU BOP. TIH w/tbg. RU and prep to swab. Swabbing. Problems w/Prop-Net.
- 08/03/96: RU X-L. Tag up at +/- 8830'. Circ hole w/2% KCL. Show of oil and gas. Circ hole clean. PU to 8722'. Swabbing. FL 2750' w/5% oil cut and good gas. Rec total 485 BLW w/703 BLW to rec from second frac. SISD.
- 08/04/96: TP 200#. CP 100#. Flow down. FL 3700'. Scattered fluid to 4100' and solid fluid below 4100' w/30% oil cut and good gas. Rec 181 BTF w/17 BO and 164 BLW. Rec 666 TBLW w/522 BLW to rec from second frac. SISD.
- 08/05/96: TP 520#. CP 440#. Flow down in 15 min. RU swab. FL 5700'. Pulled 10 BTF w/80% oil cut on first swab run. Swabbing. FL steady at 7500' w/90% oil cut. FE 1000'/30 min and 5-6 BTF/hr. SI at 5:00 PM. At 6:00 PM, CP 350# and FL 6800'. Rec 145 BTF w/53 BO and 92 BLW. Total 430 BLW to rec from second frac. SISD.
- 08/06/96: TP 540#. CP 570#. Blew down in 30 min. RU swab. FL 5000'. Pulled first swab run from 8000'. Rec 12 BTF w/50% oil cut. Swabbing. EOD, FL standing at 7500'. Wait 1 hr. FL 6300' w/80% oil cut. Rec 65 BTF w/46 BO and 17 BLW. CP varied from 380# to 440#. Total 413 BLW to rec. SISD.
- 08/07/96: TP 500#. CP 590#. Flow down. RU swab. Scattered fluid at 4800'. Solid FL 5300'. Pulled 12 BTF w/75% oil cut on first swab run. Bled down csg. TOH w/tbg. Leave 20 stands in hole. Prep to RU Keltic Services for BHP test. SISD.
- 08/08/96: TP 375#. Flow down. Run BHP test. SISD.
- 08/09/96: Run BHP test. SD.
- 08/10/96: Run BHP test. SD.
- 08/11/96: Run BHP test. SD.
- 08/12/96: SITP 230#. CP 380#. RU Keltic. Prep to pull tools, circ and MU hole. Pull pressure bomb. Open up. Flow down. Rec 100 BO. RU XL. Pump 50 bbls 2% KCL water down csg and 20 bbls 2% KCL water down tbg. TOH w/20 stands tbg. PU and TIH w/RBP. Set at 8744'. Circ hole clean w/2% KCL. Test RBP to 2000#. Held OK. TOH w/tbg. SISD.

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- 08/13/96: TOH w/tbg. RU Computalog. TIH w/4" Selectfire guns. Perf (29) .42 holes as follows: 8480', 81', 82', 87', 88', 89', 90', 8524', 25', 26', 30', 31', 32', 36', 37', 38', 39', 40', 44', 45', 46', 47', 48', 53', 54', 55', 8622', 23' and 8624' (1 spf). TOH w/guns. PU and TIH w/pkr. RU Dowell. Circ to spot 4 bbls 7 1/2% NEFE acid across perfs at +/- 8630'. PU and set pkr at 8395'. Acidize w/2800 gal 7 1/2% NEFE and 60 BS. Broke down formation at 1300#. Open by-pass. Spot acid to pkr. Close by-pass. Resume acid job. Avg rate 3 BPM. Max rate 3.1 BPM. Avg PSI 1160#. Max PSI 3650#. Good ball action. Ball out. ISDP 710#, 5 min 708#, 10 min 700#, 15 min 691#. Total 122 BLW to rec. Open up. Flow down. RU swab. Swab down. Rec 56 BLW w/66 BLW to rec. SISD.
- 08/14/96: TP 85#. Flow down. FL 7100'. Pull 8 BLW w/2% oil cut on first swab run. Rec 300' of oil on top w/LW. Wait 1 hr. Swabbing. Swab down. EOD, rec 400'/hr w/5% oil cut. Rec 13 BTF w/53 BLW to rec. Prep to frac via csg. SISD.
- 08/15/96: TP 85#. Prep to frac. TOH w/pkr and tbg. RU Dowell. Frac perfs 8480'-8624' via 5 1/2" csg w/56,000 gal YF130 gelled 2% KCL. Run 20,000 gal pad. Ramp rate 18-24 BPM. Ramp sand 1-8 PPG w/PropNet II on tail end. Max rate 24 BPM. Min rate 18 BPM. Max PSI 1580#. Avg PSI 700#. Min PSI 190#. ISDP 1090#, 5 min 1048#, 10 min 1016#, 15 min 957#. Place 197,480# 16/30 Ottawa sand on formation. Total 1562 BLW to rec. SI. Prep to flow back at 4:00 PM. Open up on 3/8" pos choke. CP 600#. RU flowline. Flow to frac tanks ON. SD.
- 08/16/96: CP 0#. Rec 173 BLW ON. Rec 258 TBLW. TIH w/tbg. Tag sand at 8640'. RU XL kill truck. Circ sand to top of RBP. Circ clean. PU to 8395'. RU swab. Swabbing csg and tbg. Csg on vac. EOD, rec 292 BLW. Rec 550 TBLW w/1012 BLW to rec. SISD.
- 08/17/96: TP 85#. CP 5#. Flow down. FL 950'. Pull 10 BTF w/5% oil cut during run. Swabbing. EOD, FL 2100' w/2% oil cut and fair gas. Rec 360 BLW. Rec 910 TBLW w/652 BLW to rec. SISD.
- 08/18/96: TP 180#. CP 140#. FL 1800'. Rec 100' of oil on top on first swab run. EOD, FL 2200' w/2% oil cut, fair gas and water. CP 140#. Rec 230 BLW. Rec 1140 TBLW w/422 BLW to rec. Take water sample to Dowell. SISD.
- 08/19/96: TP 210#. CP 140#. Flow down. FL 2100'. Pull 10 BTF w/200' oil on top on first swab run. Flow down csg. Prep to tag sand at approx 31' on top of RBP. TOH w/tbg. Prep to squeeze perfs 8480'-8624'. Postpone squeeze job. RU Lea Fishing Tool compressor system. Blow down until 2:00 AM. Rec 610 BTF w/1% oil cut. SISD.
- 08/20/96: TP 1740#. CP 720#. Flow down. RU swab. FL 3200'. Swab well. EOD, rec 190 BTF w/5% oil cut. FL 3400' FS. RU Lea Fishing Tool. Blow down.



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- 08/21/96: Blow well down. SD at 9:00 AM. Rec 29 BO and 699 BW. RD Lea Fishing Tool. RU swab. FL 4100' FS. Rec 48 BTF w/3% oil cut. FL standing at 4300'. TOH w/tbg. PU and TIH w/cmt ret. Prep to squeeze. SISD.
- 08/22/96: TP 40#. CP 120#. Flow down. RU Dowell. Prep to squeeze perfs at 8480'-8624' w/400 sx Class "C" Neat. Pump 75 bbls 2% KCL thru ret. Set cmt ret at 8450'. Test tbg to 3000#. Held OK. Sting into ret. Establish rate. Walk squeeze to 1600#. Stabilize at 1530#. Sting out of ret. TOH w/tbg. WOC. SD.
- 08/23/96: WOC. SISD.
- 08/24/96: RU Lea Fishing Tool. TIH w/4 3/4" bit and 4 DC. Tag cmt ret at 8450'. Drl out ret. Drl good cmt to 8635'. Drl out of cmt at 8635'. Circ hole clean to RBP. Test squeezed perfs 8480'-8624' and csg to 750# for 15 min. Held OK. TOH. LDDC and bit. SISD.
- 08/25/96: SISD.
- 08/26/96: TIH w/overshot. RU XL. Latch on to RBP and move to 8114'. Circ hole w/175 bbls 2% KCL. Test RBP to 2000#. Held OK. TOH w/tbg. RU Computalog. TIH w/4" csg guns. Tag RBP at 8100'. Perf (8) .42 holes as follows: 8070', 71', 72', 8073' (2 spf). TOH w/csg guns. TIH w/pkr. Set at 8079'. Circ to spot 100 gal 7 1/2% NEFE. PU and set pkr at 8023'. RU Dowell. Prep to acidize w/1000 gal 7 1/2% NEFE and 1000 gal CO<sub>2</sub> (9 tons) w/5 BS. Break down perfs at 3200#. Establish rate. SD. Prep to swab tbg and resume acid job. Fall back to 560#. RU swab. Swab down to 6000'. RD swab. RU Dowell. Resume acid job. Max PSI 3650#. Avg PSI 2500#. Avg rate 3 BPM w/1 1/2 bbls CO<sub>2</sub> and 1 1/2 bbls acid. ISDP 540#, 5 min 360#. SI. Total 75 BLW to rec. RD Dowell. Flow down. RU swab. Rec 56 BLW w/5% oil cut. Make swab run from SN. Pull 6 BTF w/15% oil cut. Wait 30 min. FE 1800'. Pull 8 BTF w/50% oil cut. Rec 64 BTF. SISD.
- 08/27/96: TP 900#. Flowing to tank w/100% oil at 7:30 AM. Fluid at 190#. Rec 10 BO in 30 min. Holding 200# on 10/64" choke w/solid oil. Flow back 15 BO in 1 hr. RU swab. Tag scattered fluid at 2100'. Swabbing. EOD, rec 108 BTF w/93 BO and 15 BW. Scattered fluid at 2100'. SISD.
- 08/28/96: TP 920#. Flow down. Rec 21 BO in 1 hr. Rel pkr. Equalize. RU XL. Tag RBP. Latch on to RBP and move to 7933'. Test to 2000# for 15 min. Held OK. Circ hole clean w/145 bbls 2% KCL. TOH w/tbg and pkr. RU Computalog. TIH w/4" csg guns. Perf (6) .42 holes as follows: 7888', 7889', 7890' (2 spf). TOH w/guns. RD Computalog. PU and TIH w/pkr. Acid job delayed due to weather and Dowell. SISD.
- 08/29/96: TP Slight Vac. CP 0#. TIH w/pkr and set at 7810'. WO Dowell. RU Dowell. Acidize perfs 7888'-7890' w/1250 gal 7 1/2% NEFE and 10 BS. Break down perfs at 2300#. Open by-pass. Spot acid to pkr. Close by-pass. Max PSI 3430#. Ball well out. Avg PSI 1175#. Avg rate 2.8 BPM. ISDP 760#, 5 min 692#, 10 min 627#, 15 min 585#. Total 78 BLW to rec. Flow down. RU swab. Swab down. Rec 500'/hr w/25% oil cut. Rec 44 BTF w/34 BLW to rec. SISD.

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- 08/30/96: TP 220#. FL 5400'. Rec 8 bbls w/200' free oil on top of first swab run. Swab down. EOD, rec 400'/hr w/35% oil cut and fair gas. Rec 29 BTF. Prep to frac 9/2/96. SISD.
- 08/31/96: TP 330#. SISD.
- 09/01/96: TP 410#. SISD.
- 09/02/96: TP 520#. RU Dowell. Frac perms 7888'-7890' via 2 7/8" tbg w/6750# 20/40 sand and 160 bbls YF140 gel. Max PSI 4200#. Avg PSI 990#. Avg rate 5.2 BPM. Screen well out w/4 bbls of flush left in job. Total 206 BLW to rec. Placed 7150# 20/40 RC on formation. SI. Open up at 1:00 PM. TP 70#. Rel pkr. TOH. Clean sand out of tbg. TIH w/ret tool. Tag sand at +/- 7900'. PU and RU swab. Rec 75 BLW w/131 BLW to rec. SISD.
- 09/03/96: TP 0#. CP 10#. RU swab. FL 1300'. Swabbing. Made 5 swab runs. Rec 115 BLW. Frac sand causing problems swabbing. Sandline parted. TOH for fish. TIH w/tbg. Prep to circ sand and clean hole. SISD.
- 09/04/96: TP 0#. CP 0#. RU XL. Break circ. Circ hole clean w/2% KCL to RBP at 7941'. PU. RU swab. Swabbing. EOD, rec 240 BTF w/10% oil cut and good gas. FL 5700'. Csg on vac. SISD.
- 09/05/96: TP 250#. CP 70#. FL 2200'. Pull 6 bbls free oil on top. Swabbed until 10:00 AM. Swab down to 4700' w/20% oil cut and fair gas show. Latch on to RBP and move up to 7396'. Set RBP. TOH w/tbg. RU Computalog. TIH w/4" csg guns. Perf (28) .42 holes as follows: 7226'-7228' (6 shots, 2 spf), 7276'-7280' (10 shots, 2 spf), 7335'-7340' (12 shots, 2 spf). TOH w/guns. RD Computalog. PU and TIH w/pkr. Test RBP to 2000#. Held OK. RU XL. Circ hole clean w/2% KCL. PU and set pkr at 7142'. Prep to acidize. SISD.
- 09/06/96: TP Slight Vac. RU Dowell. Prep to acidize. Pressure to 2600#. Broke down formation. Broke back to 1900#. Acidize w/2500 gal 7 1/2% NEFE and 50 BS. Establish rate. SD. Open by-pass. Spot acid to pkr. Close by-pass. Fair ball action. Did not ball out. Avg rate 2.9 BPM. Max PSI 2600#. Avg PSI 860#. ISDP 600#, 5 min 510#, 10 min 500#, 15 min 480#. Total 115 BLW to rec. Flow down. RU swab. Swabbing. EOD, rec 76 BLW w/39 BLW to rec. Rec 1750'/hr w/50% oil cut and good gas. SISD.
- 09/07/96: TP 400#. Flow back 5 BO. RU swab. FL 4900'. Pulled 10 BO on first swab run. Test perms at 7335'-7340'. Rec 700'/hr w/70% oil cut, light brown and gasy. Test perms at 7276'-7280'. Rec 1000'/hr w/50% oil cut, less gas, near black oil and 30% emulsion. SISD.
- 09/08/96: TP 670#. Test perms at 7276'-7280'. Flow back 15 BO in 1 hr. Near black oil and good gas w/80% oil cut. Test perms at 7226'-7228'. Rec 700'/hr w/90% oil cut, green/brown oil and excellent gas. SISD.

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- 09/09/96: TP 760#. Flow back 12 BO to frac tanks. Rel pkr. Latch on to RBP. TOH w/tools. Prep to put on pump. TIH w/production string w/220 jts 2 7/8" tbg, 2 7/8" X 5 1/2" TA, 63 jts 2 7/8" tbg, SN, perf sub, and 1 jt MJ. Set MJ at 8955', SN at 8920' and TA at 6934'. RU wellhead. PU and TIH w/2 1/2" x 1 1/2" x 20' PAP pump and (1) 2' x 7" sub, (20) 7/8" rods, (165) 3/4" rods, (76) 7/8" rods, (94) 1" rods, (1) 8' x 1" rod sub, (1) 6' x 1" rod sub and 26' polish rod. Seat pump and respace rods. Hung well on at 7:40 PM. Started pumping unit at 8:00 PM. Pumping to battery. Well placed on production.
- 09/10/96: 0 BO and 81 BW in 11 hrs. FL 1796'. Lowered rods. Pumping better.
- 09/11/96: 86 BO and 233 BW in 24 hrs. FL 3150'.
- 09/12/96: 148 BO and 179 BW in 24 hrs.
- 09/13/96: 176 BO and 107 BW in 24 hrs. FL 4221'.
- 09/14/96: 165 BO and 174 BW.
- 09/15/96: 160 BO and 176 BW. FL 2457'.
- 09/16/96: 163 BO and 156 BW. FL 4820'.
- 09/17/96: 159 BO and 153 BW. FL 4221'.
- 09/18/96: 158 BO and 156 BW. FL 4095'.
- 09/19/96: 156 BO and 149 BW. FL 2804'.
- 09/20/96: 148 BO and 149 BW. FL 2804'.
- 09/21/96: 145 BO and 143 BW. FL 2930'.
- 09/22/96: 144 BO and 146 BW. FL 2583'.
- 09/23/96: 143 BO and 143 BW. FL 3056'. TOH w/rods, pump and tbg. TIH w/bailer. Clean out sand. Change pump. SISD.
- 09/24/96: CP 40#. TIH w/production string, rods and pump. Seat pump, respace rods and hang on. Start pumping unit at 12:00 noon. Place on production.
- 09/25/96: 123 BO and 17 BW. FL 1670'.
- 09/26/96: 49 BO and 200 BW. FL 2394'.
- 09/27/96: 121 BO and 172 BW. FL 2804'.
- 09/28/96: 154 BO and 168 BW.
- 09/29/96: 128 BO and 146 BW.
- 09/30/96: 131 BO and 142 BW. FL 2676'.

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10/01/96: 138 BO and 141 BW.  
10/02/96: 130 BO and 132 BW.  
10/03/96: 121 BO and 128 BW. Early gauge.  
10/04/96: 121 BO and 129 BW. FL 1890'.  
10/05/96: 111 BO and 116 BW.  
10/06/96: 131 BO and 139 BW.  
10/07/96: 129 BO and 150 BW. Install gas meter loop. Connect gas lines.  
10/08/96: 58 BO and 25 BW and 83 MCF. Down due to electrical problems.  
10/09/96: 14 BO and 46 BW and 51 MCF. Reset blew out. Down due to electrical problems.  
10/10/96: 162 BO and 249 BW and 55 MCF.  
10/11/96: 138 BO and 183 BW and 111 MCF in 24 hrs.  
10/12/96: 149 BO and 140 BW and 121 MCF.  
10/13/96: 124 BO and 155 BW and 127 MCF.  
10/14/96: 115 BO and 156 BW and 117 MCF. FL 2394'.  
10/15/96: 127 BO and 170 BW and 117 MCF.  
10/16/96: 138 BO and 141 BW and 116 MCF.  
10/17/96: 106 BO and 143 BW and 119 MCF.  
10/18/96: 105 BO and 114 BW and 117 MCF.  
10/19/96: 99 BO and 139 BW and 107 MCF in 22 hrs. Early gauge.  
10/20/96: 108 BO and 142 BW and 123 MCF.  
10/21/96: 106 BO and 132 BW and 109 MCF.  
10/22/96: 116 BO and 151 BW and 114 MCF in 26 hrs. Late gauge.  
10/23/96: 121 BO and 131 BW and 131 MCF.  
10/24/96: 110 BO and 139 BW and 113 MCF. FL 3092'.  
10/25/96: 107 BO and 140 BW and 103 MCF.  
10/26/96: 97 BO and 125 BW and 111 MCF in 22 hrs.  
10/27/96: 107 BO and 136 BW and 117 MCF.

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10/28/96: 106 BO and 137 BW and 118 MCF.

10/29/96: 113 BO and 150 BW and 116 MCF.

10/30/96: 124 BO and 150 BW and 66 MCF. FL 3944'. GPM replaced gas meter plate. Gas flow 345 MCF.

10/31/96: 120 BO and 155 BW and 282 MCF.

**FINAL REPORT - COMPLETION REPORT ENCLOSED  
SHOULD YOU REQUIRE COPIES OF  
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