

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. 30-025-34392
Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
State Oil & Gas Lease No. V-2040

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.)		Lease Name or Unit Agreement Name Fontaine 28 St. Com
Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry Hole	Name of Operator Matador Operating Company	Well No. 1
Address of Operator 310 W. Wall, Ste. 906, Midland, TX 79702	Pool name or Wildcat La Rica Morrow	
Well Location Unit Letter N : 1200 Feet From The FSL Line and 1650 Feet From The FWL Line Section 28 Township 19S Range 34E NMPM Lea County		
Elevation (Show whether DF, RKB, RT, GR, etc.) 4027'		

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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: Attempted completion report ☒

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.

Please see attempted completion report.

Well Station - CIBP 4825'

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

SIGNATURE Russ Mathis TITLE Production Manager DATE 07-26-99

TYPE OR PRINT NAME Russ Mathis TELEPHONE NO. 915/687-5955

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY CHRIS WILLIAMS TITLE DISTRICT SUPERVISOR DATE AUG 05 1999

CONDITIONS OF APPROVAL, IF ANY

Mud to properly TA w/in one yr. Provide a chart when TA test run.

JK

MATADOR PETROLEUM CORP.
DAILY COMPLETION/WORKOVER REPORT
FONTAINE 28 STATE COM #1
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Total Well Cost Forward: \$181,700

- 8-17-98 Globe Construction leveled the location. Hobbs Anchor set Mast anchors.
- 8-19-98 Day 2. MIRU PU – installed 6" 900 3000# double ram BOP. RIH w/4 ¾ bit, 5 ½" csg scrapper, 6 3 ½" D.C. Received 390 jts new 2 7/8 EUE 8rd L-80 tbg. Cleaned tbg. RIH w/12 jts w/collars hanging on 5 ½" cut off. POH w/tbg, collars & tools. ND BOP & tbg head. Grind & bevel cut off. Installed bit guide in tbg head. Install tbg head & tested to 2500# OK. RIH w/tools, collars & 12 jts tbg. Transferred 70 jts 2 7/8" tbg from Laguna Deep Fed Unit #1. SWI. SDON. Note: Tbg inspectors found 40 bad boxes & 8 bad pins on the tbg transferred from Laguna #1. Threads were galled and pulled.
- 8-20-98 RIH w/316 jts 2 7/8 EUE 8rd L-80 tbg tagged D.V. @ 9992.63. Picked up swivel & SWI. Lightning & rain.
- 8-21-98 Day 4. Pressured csg to 3000#. Washed to 10,011. Drill plug & D.V. f/10,011-10,014'. Rotated bit & scrapper through D.V. 10 times. Worked bit & scrapper through D.V. 10 times. Worked bit & scrapper through D.V. 10 times turning 1/4th turn each pass. RIH to 11,014'. Circulated bottoms up w/clear water returns. RIH & tagged up @ 13,668' KB. Pressured csg to 4000# OK. Broke circulation w/1100 psi. Circulated bottoms up w/fresh water. Drill D.V. bomb, D.V. trash, 8' cement, wiper plug. Returned hand full of aluminum from float collar. PBTD @ 13,674.38'. Circulated hole clean. Pressured csg to 4000 psi for 5 mins. OK. Pumped 310 bbls 10# brine w/2% KCL & 55 gals Enviro-Chem, pkr fluid. Laid down 12 jts tbg. SWI SDON.
- 8-22-98 Day 5. FPOH w/tbg. LD DC's & tools. RU Computalog Wireline Service. Ran CBL from PBTD @ 13,673 to 13,005 w/o psi, 13228-13,121 w/1500 psi, 12718-12,542 w/o psi, 12,717-12,474 w/1500 psi, 11,811-11,646 w/no psi, 11,643-9785 w/1500 psi, 8215-6787 w/1500 psi, 5015-4557 w/1200 psi. All zones of interest had good cement. Top measured good cement @ 4250'. SWI SDOW.
- 8-24-98 Tested 2 jts tbg to 8000# on rack. Pickuped up BHA & tested to 5000 psi, w/xx plug in place. RIH w/tbg testing to 8000 psi above slips. Set pkr w/17" or 5000# compression. ND BOP. Pack off pkr w/20,000#. Installed 2 7/8 Cameron plug bushing, 7 1/16 x 2 7/8 TCM wrap around.

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Land tree. Tested w/wrap around, plug pushing, R seal to 3000#. Tested tree to 7500 psi.

KB Corr & PK setting	13.00
420 jts 2 7/8 EUE 8rd L-80	13,038.19
1-Halliburton 2.213 x Profile Nipple	1.23
1-jt 2 7/8 EUE 8rd L-80	31.74
1-Halliburton 2.313 "x" Profile OSTD	1.28
1-Halliburton 5 1/2" 13-17# PLS Pkr	3.99
1-2 7/8 EUE 8rd L-80 Sub	6.12
1-Halliburton 2.313 "x" Profile Nipple	1.21
1-2 7/8 EUE 8rd L-80 Sub	6.02
1-2 7/8 SS Wireline Re-entry Guide	.41
	<u>13,103.19</u>

8-25-98 Day 7. RU Halliburton SL unit. RIH w/equalizing prong to 13,095' SLM. Beat down to open ports on X-plug. POH. RIH w/X pulling tool. Attempt to pull X-plug w/no success. POH. RIH w/equalizing prong to 13,095'. Equalize X-plug. POH. RIH w/pulling tool. Pulled X-plug. POH. Plug hung-up @ 11,400'. Worked free OK. Continue POH. Retrieve all of X-plug. RD Halliburton. RU Schlumberger. Attempt to RIH w/Gamma Ray collar locator. Flow tube on grease injector not allowing WL to pass freely. RD grease injector. Schlumberger truck threw belts. SWI SDON. NOTE: Schlumberger to repair grease injector & truck by a.m.

8-27-98 Day 9. "0" pressure on the tbg. RIH w/swab tagged fluid level @ 12,400 and pulled from 12,800. Recovered dope and black water. Last bottom swab cup. Operator could feel drag from 12,800-11,800. RU Jarrel Services Slickline unit. RIH w/2 1/4" blind box. Tagged cup @ 12,756'. Pushed cup out the end of the tbg. RIH w/2.340" gauge ring. Ring stopped and became wedged @ 11,853'. Worked ring out of tight spot. POH RD Slickline. SWI SDON. NOTE: Do not swab past 11,800' w/depth odometer.

8-28-98 Day 10. Installed tree saver. RU Halliburton. Tested lines to 10,000 psi. Acidize perfs 13,480-80 & 13,532-42 w/15000 gals 10% Clay safe 5" acidic acid w/1000 SCF/bbls Nitrogen. Pumped 2 bbls acid, 10,000 SFE N2, 34 bbls acid w/1000 SFE N2/bbl. Flushed w/165,500 SCF N2 @ 3000/min @ 1.56 bpm. Max 9282, Min 8050 Avg 8600 Final 9233 psi Total N2 on job 210,000 SFF. ISIP 9229, 5 min-9142, 10 min 9113, 15 min 9094. Bled N2 from 9068 to 3889 in 36 min. SI. Remove tree saver.

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Opened well w/3550 on gauge. Open to ck 10/64 30 min 1850 60 min 1200 90 min. 500 open to 20/64, 105 min flowing acid, 120 flowing N2, 180 min tbg dead. No gas to burn. LWDON. No flow.

8-29-98 Day 11. RIH w/swab. Sat down @ 8700'. POH RIH w/swab mandred. Sat down @ 10000'. Work down to 10200'. POH. Rec Rubber from tree saver. RIH w/swab to 11,500'. No obstruction, no fluid. SDSOS.

8-31-98 Day 12. TP 90#. RU Jarrel SL RIH w/2.13 gauge ring to 13,600'. FL @ 9800'. RD SL. RIH w/swab. Tagged FL @ 9900'. Made 1 run recovered 1200' fluid. SWI SDON.

Halliburton water sample analysis:

	<u>Middle</u>	<u>End</u>
Sample Temp.	75F	75F
Resistivity	0.109	0.12
Specific Gravity	1.050	1.045
PH	4.35	3.16
Calcium	14,500 mpl	9,300 mpl
Magnesium	4,600 mpl	2,850 mpl
Chloride	43,500 mpl	38,250 mpl
Sulfates	1,890 mpl	370 mpl
Bicarbonates	0 mpl	0 mpl
Soluble Iron	Heavy	Heavy

9-1-98 Day 13. 60 psi TP. OWT pit. Blow down in 5 min. RIH w/swab. FL @ 10,000'. RU Schlumberger E line. RIH 6' strip gun loaded w/2 1/8" EJHMX charges. Perforate Morrow from 13,407-13 @ 6 SPF. No change @ surface. POH. Made 3 dry runs attempting to add perms. RIH w/4' and 2' strip gun loaded w/same charges as before. Perforate Morrow from 13,334-36 & 13,314-18 @ 6 SPF. No change @ surface.

9-2-98 Day 14. SITP 20 psi. SICP 0. Open tbg & bled down quick. RU swab. IFL 10,000'. Pulled from 11,000'. Recovered 3 BW. Had small amount of gas ahead of fluid. 2nd run FL @ 11,000'. Pulled from 11,500'. Recovered .5 BW. No gas during or after swab run. 3rd run FL @ 11,500'. No fluid recovered on run. SD for one hr. 4th run FL @ 11,500'. No fluid recovered on run. No gas ahead or during run. Made 4 swab runs & recovered 3.5 BW. No shows of oil & very little show of gas. SWI & SDFN.

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9-3-98 Day: 15. RU Halliburton acid equipment, SLO CO2/ CO2 truck, Halliburton tree saver and McClaskey kill truck. Test line to 950 psi. SITP after 18 hrs @ 140 psi. Pump 50 tons of CO2 followed by 1200 gals of Claysafe 5 acid w/ GPM MSA2, 2 GPM SSO 21M surfactant and 2 GPM HC2 surfactant and 75 1.35 FG BS N-30 Quality Foam, followed by 75% CO2 and 25% 10# PPG Brine containing 2% KCL. Hole loaded w/63 bbls pumped. Acidized perfs 13,314-18, 13,334 - 36, 13,407 - 13, 13,480 - 88 and 13,532 - 42' @ 4 to 5.4 BPM @ 7200' ATP w/8300' MTP. ISTP @ 5850', 5 min - 5762, 10 min - 5710, 15 min - 5684, 20 min - 5652, 25 min - 5623. Follow well back thru Halliburton equipment to 4700 psi. RD Halliburton. SITP @ 1:25PM @ 4250 psi. OWTP on 6/64 choke. Line freezing off and plugging due to turn in line. SWI. RU straight blow down line. OWTP. Flow well w/ various chokes for 6 hrs w/ TP decreasing to 300 psi on 32/64 choke when acid hit. Flow well for additional 4 hrs @ 0 psi on 3/4 choke. Well unloaded most of acid w/continuous light blow of CO2. LWOON w/ no blow.

Note: AM report on 9/4/98

Found FL @ 10, 500' pulled 1,000' fluid, no blow after swab.

9-4-98 Day: 16. RIH w/swab. FL @ 10,500'. Pull from 11,500'. Rec all wtr/acid. No blow after swab. Observe well 1 hr. RIH w/swab. FL @ 11,500'. POH. SWIOW.

9-8-98 Day 17. SITP 500 psi. Bleed down. Good gas. RU swab. IFL 6500'. Make 5 runs & recovered approx 20 bbls (no oil w/very little gas). FL @ 11,200'. SD for 1 hr. Run #6, FL @ 11,200'. No fluid recovered. SD for 1 hr. Run #7, FL @ 11,200'. No fluid recovered. SWI & SDFN.

Halliburton water sample analysis:

Sample Temp	82F
Resistivity	0.11
Specific Gr.	1.050
PH	5.08
Calcium	3,850 mpl
Magnesium	870 mpl
Chloride	42,000 mpl
Sulfates	3,110 mpl
Bicarbonates	0 mpl
Soluble iron	Heavy mpl

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- 9-9-98 Day 18. SITP 50 psi, CP 0. Drop 2 soap sticks. Bleed down tbg. good gas. RU swab. IFL 10,300' & scattered. Recovered 3 bbls load. 2nd run, FL @ 11,200' & scattered. No fluid recovered. SD for 1 hr. 3rd run, FL @ 11,300' & scattered. No fluid recovered. SD for 1 hr. 4th run FL @ 11,300' & scattered. No fluid recovered. SWI & SDFN.
- 9-10-98 Day 19. SITP 110 psi. Bleed down tbg. RU pump truck & load tbg w/60 bbls 10# brine. ND Tree & NU BOP. Unset pkr. Well out of balance. Reverse out tbg volume plus 15 bbls. OK. Strap OOH w/178 stands (11095.30') tbg. Lay down 65 jts. Found 1 bad jt (crimped). Send pkr, X-nipples & O/O tool to Howco-Hobbs to redress. RU Wedge WL & GIH w/GR-JB to 13,300'. OK. GIH w/Howco EZ Drill CIBP. Set @ 13,290'. POOH. SWI & SDFN.
- 9-11-98 Day 20. SICP 0. RU Wedge WL & dump 35' cement on CIBP. New PBTD @ 13,255'. Load & test csg to 4000 psi OK. RIH w/tbg-open ended to 11,080'. RU Howco & circ hole w/2% KCL pkr fluid. Spot 300 gals 15% HCL NEFE. Start OOH. SWI & SDFN.
- 9-12-98 Day 21. SIT/CP 0. Continue POOH w/tbg. RU Wedge WL & perforate Wolfcamp @ 11,046-51' (4 spf - 5' 20 holes). 3 1/8" 90 deg. Phase 16 grams) & 11,060-76' (4 spf 16' 64 holes, 3 1/8" 90 deg Phase 16 grams). Total of 84 holes. RD Wedge. RIH w/WLEG on 5 1/2" Howco PLS pkr w/O/O tool 2.31 X nipple. 1 jt 2 7/8 L-80 tbg (31.75'), X nipple 2.31, 349 jts 2 7/8 L-80 tbg (10873.61'). Set pkr @ 10,924' w/16 pts. Load csg w/32 bbls. Test to 1000 psi OK. ND BOP & NU tree. Retest csg to 1000 Ok. RU to swab. IFL 2700. Made 6 runs. FFL 3100'. Recovered 33 bbls. No shows. SWI & SDFN.
- 9-13-98 Day 22. SITP Slt vac. SICP Slt blow. RU swab. IFL 3100'. Made 20 runs. FFL 3700'. Recovered 105 bbls today. No shows. Total recovery from this zone is 138 bbls. Took water samples to Howco. SWI & SDFN.

Halliburton water sample analysis:

Sample Temp.	73F
Resistivity	0.079
Specific Gravity	1.103

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PH	6.61
Calcium	2,400 mpl
Magnesium	4,500 mpl
Chloride	93,000 mpl
Sulfates	19,056 mpl
Bicarbonates	659 mpl
Soluble iron	500 mpl
Nitrates	10

9-14-98 Day 23. SIT/CP 0. RU swab. IFL 3500'. Made 24 runs. Recovered 140 bbls. No shows. FFL 3700'. Total recovery from this zone is 278 bbls. Took last swab sample to Howco.

Halliburton water sample analysis:

Sample Temp	73F
Resistivity	0.09
Specific Gravity	1.065
PH	6.74
Calcium	3,200 mpl
Magnesium	2,850 mpl
Chloride	54,000 mpl
Sulfates	14,620 mpl
Bicarbonates	107 mpl
Soluble iron	Moderate mpl

9-15-98 Day 24. STI/CP 0. RU swab. IFL 3400'. Made 33 runs. Recovered 176 bbls. No shows. FFL 3700. Total recovery from this zone is 424 bbls. Took 1st, midday & last swab samples to Howco.

Halliburton water sample analysis:

	<u>1st Swab</u>	<u>Noon swab</u>	<u>Last Swab</u>
Sample Temp	84F	80F	68F
Resistivity	0.062	0.065	0.08
Specific Gravity	1.110		1.115
PH	6.65	6.71	6.85
Calcium	2,050 mpl		2,550 mpl
Magnesium	1,680 mpl		2,400 mpl
Chloride	99,000 mpl	105,500 mpl	110,500 mpl
Sulfates	16,052 mpl		14,242 mpl
Bicarbonates	311 mpl		616 mpl
Soluble iron	250 mpl		100 mpl
Nitrates	10		5

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9-16-98 Day 25. SITP-slight blow. RU swab. IFL 3400'. Made 32 runs. FFL 3800'. Recovered 221 bbls, no shows. Total recovery from this zone is 645 bbls. Took 1st, midday & last swab samples into Howco.

9-17-98 Day 26. SITP-slight blow. RU swab. IFL 3400'. Made 29 runs. FFL 3800'. Recovered 187 bbls. No shows. Total recovery from this zone is 832 bbls. Took 1st, midday and last swab samples into Howco.

Halliburton water analysis:

Sample Temp	77F
Resistivity	0.069
Specific Gravity	1.125
PH	6.90
Calcium	2,900 mpl
Magnesium	2,100 mpl
Chloride	114,000 mpl
Sulfates	15,500 mpl
Bicarbonates	360 mpl
Soluble iron	50 mpl
Nitrates	0

9-18-98 Day 27. SITP slight blow. SICP 0. RU swab. IFL 3400'. Made 3 runs. Recovered 26 bbls. No shows. FFL 3500'. Total recovery from this zone is 856 bbls. RD swab. ND Tree & NU BOP. RU pump truck & load tbgs w/65 bbls 2% KCL – pkr fluid. Unset pkr & POOH. RU Wedge WL & run 4.5" GR-JB to 11,040'. OK. POOH. RIH w/5 ½ Howco EZ drill CIBP (10k). Set @ 11,020'. Load csg w/62 bbls 2% KCL – pkr fluid. Test to 4000 psi OK. RIH w/bailer & dump 18' cement on CIBP. New PBTD @ 11,002'. RD Wedge. SWI & SDFN.

9-19-98 Day 28. SICP 140 psi. Bleed down (air). RIH w/WLEG, 5 ½ Howco PLS pkr, 0/0 tool w/2.31 X nipple, 1 jt 2 7/8" tbgs, 2.31 X nipple & 328 jts 2 7/8 tbgs. SWI & SDFN.

9-21-98 Day 29. SIT/CP 0. Continue in hole w/tbgs & pkr to 10,852'. RU Howco & spot 400 gals 15% NE FE HCL across perfs. Pull pkr to 10,518'. Reverse 7 bbls into tbgs. Set pkr w/15k pts compression. Test csg to 1500 psi OK. ND BOP & NU Tree. Retest csg to 3000 psi OK. Test tbgs to 4000 psi OK. RU Schlumberger & perforate Wolfcamp 10,854-60' (4 spf-24 holes. 2 1/8" guns 0-45 deg phase). Guns for perfs 10,829-42', did

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not shoot. SWI & SDFN. Note: No shows on surface when perfs 10,854-60 were shot.

Halliburton water sample analysis:

Sample Temp.	72F
Resistivity	0.063
Specific Gravity	1.110
PH	6.59
Calcium	2,100 mpl
Magnesium	300 mpl
Chloride	94,250 mpl
Sulfates	13,320 mpl
Bicarbonates	1,200 mpl
Soluble Iron	Moderate mpl
Nitrates	0

NOTE: Last sample collected for 9/18/98.

Tbg Detail:

376 jts 2 7/8 6.5# L-80 EUE 8rd tbg	10468.07
2 7/8" "X" nipple 2.313 ID	1.22
1 jt 2 7/8" Ditto tbg	31.75
2 7/8" x 5 1/2" Halliburton PLS Pkr	
w/on/off tool w/2.313 "X" nipple	5.30
377 jts Total tbg & tools	10,506.34
5 Pts Slackoff	6.00
"X" Nipple @ 10,513 & 16,480. Top of pkr @ 10,513.00	

9-22-98

Day 30

SIT/CP - 0. RU Schlumberger & perforate Wolfcamp @ 10829-42 (4 spf - 13', 52 holes, 2 1/8" Enerjet 0-45 deg phase). New Wolfcamp perfs @ 10829-42 and 10854-60. Total of 76 holes. No shows @ surface after perforating. RD Schlumberger. RU Howco to breakdown perfs. Formation broke @ 3000 psi. Injection rate @ .1 bpm. At 3050 had another break. Broke to 2500 psi. Increase injection rate slowly to .4 bpm @ 2500 psi. Put remaining acid away. Final rate .4 bpm @ 2900 psi. ISIP - 2700, 5 min - 575, 10 min - vacuum. RD Howco. TLTR - 81 bbls. RU swab. IFL - 500'. Made 14 runs. EFL - 7300'. Recovered 88 bbls. Very slight trace of oil on last run.

Halliburton water sample analysis:

Sample Temp.	60F
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Resistivity	0.066
Specific Gravity	1.100
PH	5.33
Calcium	4,700 mpl
Magnesium	1,710 mpl
Chloride	84,250 mpl
Sulfates	9,300 mpl
Bicarbonates	0 mpl
Soluble Iron	Heavy mpl

Nitrates 0

Water recovered end of day 9-21-98

9-23-98 SITP 25 psi (13 hrs). CP 0 psi. Bleed down tbg (natural gas). RU swab. IFL 4000'. Had 50' oil on top of 1st run. Made 16 runs. FL 9200'. SD 1 hr. Made last run. FL @ 7800'. Made total of 17 runs. Recovered 122 bbls. Total of 210 bbls recovered from this zone. 129 bbls over load. Had very slight trace of oil on various runs. Had light gas blow ahead of runs. SWI & SDFN.

Halliburton water sample analysis:

	<u>Noon 9-23-98</u>	<u>Last of day</u>
Sample Temp.	78F	77F
Resistivity	0.065	0.073
Specific Gravity	1.100	1.110
PH	6.70	6.73
Calcium	3,250 mpl	2,500 mpl
Magnesium	810 mpl	2,010 mpl
Chloride	85,250 mpl	97,000 mpl
Sulfates	10,250 mpl	5,200 mpl
Bicarbonates	-0- mpl	219 mpl
Soluble Iron	Heavy mpl	Heavy mpl
Nitrates	0	0
Oil Gravity	39.3 @ 60F	

9-24-98 SIT/CP - 0. RU swab. IFL 4300'. Very slight trace of oil. Made 9 runs. FL @ 9000'. SD for 1 1/2 hr. Swab #10, FL @ 7500'. Made total of 15 runs. Recovered 118 bbls today. FEL @ 9000'. Slight show of gas ahead of swab. No shows of oil. Total recovery from this zone is 328 bbls over load. SWI & SDFN.

Halliburton water sample analysis:

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	<u>1st run</u>	<u>Noon run</u>	<u>Last Run</u>
Sample Temp.	80F	80F	86 F
Resistivity	.0665	.075	.067
Specific Gravity	1.110	1.095	1.105
PH	6.78	6.48	6.55
Calcium	2,250 mpl	3,350 mpl	2,600 mpl
Magnesium	4,110 mpl	1,860 mpl	570 mpl
Chloride	101,000 mpl	110,500 mpl	86,500 mpl
Sulfates	11,890 mpl	12,506 mpl	9,074 mpl
Bicarbonates	342 mpl	128 mpl	230 mpl
Soluble Iron	500 mpl	10 mpl	Moderate mpl
Nitrates	0	0	0

9-25-98 SITP 10#. Blew down. IFL 4000 w/skim of oil. Made 14 runs & recovered 102 BW. EFL 9000'. During swabbing shut down for 1 hr, FL rose to 7800'.

Halliburton water sample analysis:

Sample Temp.	77F
Resistivity	0.063
Specific Gravity	1.105
PH	6.96
Calcium	2,350 mpl
Magnesium	480 mpl
Chloride	89,500 mpl
Sulfates	8,640 mpl
Bicarbonates	225 mpl
Soluble Iron	Mod mpl
Nitrates	0

9-29-98 SIT/CP 0. RU swab. IFL 3100'. No shows. Made 5 swab runs & FEL @ 6900'. Recovered 39 bbls. No shows. Total recovery from this zone is 575 bbls. 494 bbls over load. ND Tree & NU BOP. RU pump & load tbg w/61 bbls 2% KCL. Unset pkr & POOH w/tbg & pkr. RU Schlumberger & run GR/JB to 10,800' OK. RIH w/Howco E-Z Drill 10k CIBP. Set @ 10,795'. RD WL. SWI & SDFN.

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9-30-98 SICP 0. RU pump & load csg w/48 bbls 2% KCL. Test CIBP to 4000 psi OK. RU Schlumberger & dump 35' cement on CIBP. New PBTD @ 10,760'. RD WL. RIH w/notch collar on 2 7/8" tbg to 10,402'. RU Howco & spot 350 gals 15% NEFE HCL. POOH w/tbg. SWI & SDFN.

Halliburton Water Analysis

Sample Temp	76F
Resistivity	0.1053
Specific Gravity	1.105
PH	6.75
Calcium	2,800 mpl
Magnesium	2,220 mpl
Chloride	117,500 mpl
Sulfates	9,298 mpl
Bicarbonates	79 mpl
Soluble Iron	250 mpl
Nitrate	0

10-01-98 SICP – 80. Bleed off csg (air). RU Schlumberger & perforate Bone Springs @ 10376-10400, 3 3/8 gun w/4 spf, 96 holes. All guns fired. RD WL. RIH w/ WLEG on 5 1/2 PLS pkr, 2 7/8 SN & 329 jts 2 7/8 L-80 tbg (10252.86). RU pump & reverse acid into tbg. Set pkr @ 10286 w/18 pts compression. Test csg to 1000 psi. OK. RU on tbg & breakdown new perfs. Had slow bleed off @ 3000 psi. Tried to establish injection rate. Pressure increased to 4500 psi before a break. Put acid away. . 2 bpm @ 4500, . 3 @ 4500, . 4 @ 4400, . 7 bpm @ 4400. Final rate @ 4000 ISIP-3850. 5 min-3240, 10 min-3030, 15 min-2680, 30 min-1700 psi. RD pump. TLTR – 78 bbls. Bleed off press. RU swab. IFL – surf. Made 5 runs. FFL – 5400'. Recovered 36 bbls. 42 bbls load to recover. SWI & SDFN

10-02-98 SIT/CP 0. RU Swab. IFL 2700'. No shows on 1st run. Made 9 runs & swab dry recovering 45 bbls. SD for 1 hr. Run #10, FL @ 9000'. Recovered 3 bbls. SD for 1 hr. Run #11, FL @ 9000'. Recovered 2 bbls. Total of 11 runs & recovered 50 bbls today. Total recovery from this zone is 86 bbls over load. No shows. SWI & SDFN.

Halliburton Water Sample Analysis:

Sample Temp	72 F
Resistivity	0.0838
Specific Gravity	1.155
PH	6.18

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Calcium	1,400 mpl
Magnesium	3,300 mpl
Chloride	165,500 mpl
Sulfates	9,500 mpl
Bicarbonates	104 mpl
Soluble iron	250 mpl
Nitrate	0

10-3-98 SIT/CP 0. RU Swab. IFL 5400'. Made 5 runs & swab dry. Recovered 25 bbls. SD for 1 hr. Run #6 FL @ 9000'. Recovered 2 bbls. Made a total of 6 runs. FFL @ 9000'. Recovered 27 bbls. No shows. Total recovery from this zone is 113 bbls, 35 bbls over load. SWI & SDFN.

Halliburton Water Sample Analysis:

Sample Temp	89 F
Resistivity	0.0684
Specific Gravity	1.155
PH	6.14
Calcium	10,450 mpl
Magnesium	2,040 mpl
Chloride	160,500 mpl
Sulfates	2,424 mpl
Bicarbonates	31 mpl
Soluble iron	500 mpl
Nitrate	0

10-5-98 SIT/CP 0 (43 hrs). RU Swab. IFL 4300'. Made 5 runs & swabbed dry. Recovered 27 bbls. No shows. SD for 1 hr. Run #6, FL @ 9000'. Recovered 3 bbls. SD for 1 hr. Run #7, FL @ 9000'. Recovered 2 bbls. SD for 1 hr. Run #8, FL @ 9000'. Recovered 2 bbls. Made 8 runs. Recovered 34 bbls. No shows. FFL 9000'. Total recovery from this zone is 147 bbls, 69 bbls over load. SWI & SDFN.

Halliburton Water Sample Analysis:

		<u>Last sample of day</u>
Sample Temp	78 F	72F
Resistivity	0.054	0.0863
Specific Gravity	1.165	1.163
PH	6.58	6.36
Calcium	11,450 mpl	12,500 mpl

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Magnesium	1,980 mpl	3,090 mpl
Chloride	162,250 mpl	189,500 mpl
Sulfates	1,770 mpl	1,886 mpl
Bicarbonates	20 mpl	61 mpl
Soluble iron	Moderate	Moderate

- 10-6-98 SIT/CP 0. RU pump truck & load tbg w/20 bbls 2% KCL. Unset pkr. Reverse out 65 bbls to pit (tbg vol). POOH. RU Schlumberger & RIH w/4.45" GR/JB to 10,350 OK. RIH w/Howco 10k EZ Drill CIBP on WL. Set @ 10,330'. Load csg w/2% KCL & test CIBP to 4000 psi OK. Dump 35' cement on plug. New PBTD @ 10,295'. RD WL. Start IH w/WLEG. 5 1/2 Howco PLS pkr. O/O tool w/2.31 "X" nipple, 1 jt 2 7/8 tbg. SWI & SDFN.
- 10-7-98 SIT/CP slight blow. Continue in hole w/pkr & tbg to 7888'. Set pkr w/14 pt compression. RU pump & test csg to 1500 psi OK. ND BOP & NU tree. Retest csg to 1500 psi OK. Test tbg to 4000 psi OK. Swab well down to 7000'. RU Schlumberger & perforate 8003-08 (5'-6 spf-30 holes) & 8015-24 (9'-6 spf-54 holes). Total of 84 interjet-2 1/8 perforations. Well had slight vacuum after perforating. RD WL. RU swab. FL @ 7000'. No recovery on swab. SWI & SDFN.
- 10-8-98 SIT/CP 0. RU Swab. IFL 6000'. 1st run FL @ 6000'. Recovered 900' no shows. 2nd run FL @ 6900'. Recovered 200' no shows. SD for 1 hr. 3rd run FL @ 6900'. Recovered 300' no shows. SD for 1 hr. 4th run FL @ 7200' no recovery. SD for 1 hr. 5th run FL @ 7100' no recovery. SWI & SDFN. Total recovery is 7 bbls today. No shows.
- 10-9-98 SIT/CP 0 (19 hrs). RU swab. IFL 6500'. Recovered 3 bbls. No shows. RD swab. RU D/S & acidize w/1500 gals 7 1/2% HCL using 126 ball sealers. When tbg loaded, formation broke @ 3150 psi. Broke back to 2250. Increase rate to 3 bpm. Average rate @ 3 bpm. Min pressure 2675. Final & max pressure 3525. Very small amount of ball action. ISIP 3200. 5 min SIP 2875, 10 min 2800, 15 min 2785. TLTR 86 bbls. RD D/S. Bleed off pressure. RU swab. IFL surface. Made 9 runs & swab dry. SD for 1 hr. Run #10, FL @ 7400'. Recovered approximately 1 bbls fluid. SD for 2 hrs. Run #11, FL @ 7300'. Recovered 2 bbls. Made a total of 11 swab runs today. Recovered 68 bbls after acid job. 18 bbls of load to recover. Had 1% oil cut on last run. SWI & SDFN.

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- 10-10-98 SIT/CP 0. Light blow (natural gas). RU swab. IFL 6000'. Had fair gas ahead of fluid. Recovered 1500' w/approximately 500' of oil on 1st run. 2nd run FL @ 7500'. No recovery. SD for 2 hrs. 3rd run FL @ 7400'. Recovered 150' of fluid. Had 2% oil cut w/natural gas ahead of fluid. SWI & SDFN.
- 10-13-98 SITP 12 psi CP 0. Bled down tbg (natural gas). RU swab. IFL 6500'. Recovered 3 bbls. Top 50' was oil. RD swab. ND tree. NU BOP. RU pump truck & load tbg w/2% KCL. Unset pkr & POOH. RU Wedge WL & RIH w/Howco 5 ½ EZ Drill 10k CIBP. Set BP @ 7965'. Test plug to 3950 psi OK. Dump 35' of cement on top of plug. New PBTD @ 7930'. Recovered 3 bbls today. Total recovery from this zone is 87 bbls, 1 bbl over load. Took water sample to Howco. SWI & SDFN.
Halliburton water sample analysis:
Sample Temp 77F
Resistivity 0.054
Specific Gravity 1.175
PH 6.19
Calcium 16,800 mpl
Magnesium 6,690 mpl
Chloride 155,000 mpl
Sulfates 2,424 mpl
Bicarbonates 103 mpl
Soluble iron Moderate mpl
- 10-14-98 SICP 0. RU Wedge WL & perforate Delaware sands @ 6964-72' (8' @ 4 spf-32 holes. 4" gun using 23 gram charges). RD WL. RIH W 5 ½ CS, 1 pkr, 2 3/8 x 2 7/8 X-O, 2 7/8 Seating Nipple & 220 joints 2 7/8 L-80 tbg. Set pkr @ 6847 w/13 pts compression. RU swab, IFL-surface. Made 6 runs & swab dry. SD for 1 hr. Run #7 FL @ 6100', recovered 250' of fluid. No shows. SD for 1 hr. Run #* FL @ 6000', recovered 300' of fluid. No shows. Made a total of 8 runs, FFL @ 6000'. Recovered 43 bbls. No shows. SWI & SDFN.
- 10-15-98 SITP 8 psi. Bleed down tbg (natural gas). RU swab. IFL 4400'. 1st run had 500' w/50% oil cut. Made 3 runs & swabbed dry. SD for 1 hr. Run #4 FL @ 6200', recovered 300' fluid (2% oil cut) w/small amount of gas ahead of fluid. SD for 1 hr. Run #5 FL @ 6200', recovered 300' fluid (2% oil cut) w/small amount of gas ahead of fluid. SD for 2 hrs. Run #6 FL @ 6000', recovered 400' fluid (2% oil cut) w/small amount of gas ahead of fluid. SD for 2 hrs. Run #7 FL @ 6000', recovered 400' fluid (2% oil cut) w/small amount of gas ahead of fluid. Made 7 runs &

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recovered 16 bbls today. FFL @ 6000' after 2 hr SI. Total recovery from this zone is 59 bbls. SWI & SDFN.

10-16-98 SITP 0 (14 hrs). RU swab. IFL 5500'. Had 20% oil cut on top 300' of 1st run. Made 2 runs & swab dry. SD for 1 hr. Run #3 FL @ 6200', recovered 300' (2% oil cut) w/small amount of gas ahead of fluid. SD for 2 hrs. Run #4 FL @ 6300', recovered 200' (5% oil cut) w/small amount of gas ahead of fluid. SD for 2 hrs. Run #5, FL @ 6200', recovered 250' (5% oil cut) w/small amount of gas ahead of fluid. SD for 2 hrs. Run #6 FL @ 6200', recovered 200' (5% oil cut) w/small amount of gas ahead of fluid. Made 6 runs today. FFL @ 6200', pulling from 6750'. Today recovered 13 bbls. Total recovery from this zone is 72 bbls. SWI & SDFN.

10-19-98 SITP 25 (62 hrs) Bled down (natural gas). RU swab. IFL - 4300'. Recovered 1500' fluid. Top 100' of 1st run had 25% oil cut. Made 3 runs and well swabbed dry. SD for 1 hr. Run #4, FL @ 6300'. Recovered 250'. Had approx 3% oil cut. SD for 2 hrs. Run #5, FL @ 6200'. Recovered 300'. Had approx 3% oil cut. SD for 2 hrs. Run #6, FL @ 6300'. Recovered 200'. Had approx 5% oil cut. Total of 6 runs. FFL @ 6300' pulling from 6750'. Today recovered 18 bbls. Total recovery from this zone is 90 bbls. 47 bbls over capacity. SWI & SDFN

<u>Water Analysis:</u>	<u>6-18-98</u>	<u>6-19-98</u>
Specific Gravity	1.130	1.050
PH	6.5	6.8
Calcium	20240 mpl	24048
Magnesium	2431 mpl	3160
Chloride	93950 mpl	88633
Sulfates	200 mpl	150
Bicarbonates	300 mpl	175
Soluble Iron	50 mpl	40
Nitrate	0	0

10-20-98 Day: 34
 SITP - 10 psi (16 hrs). CP - 0, Bleed down tbgs. RU swab. IFL 5500'. Top 50' of 1st run had 20% oil cut. Made 2 runs & swabbed dry. SD for 2 hrs. Run #3, FL @ 6300' & recovered 250' w/3% oil cut. RD swab. Today recovered 7 bbls. Total recovery in this zone is 97 bbls. 54 bbls over capacity. RU pump truck & load tbgs w/36 bbls 2% KCL. Unset pkr & POOH. RU Wedge WL & RIH w/Howco 10k EZ Drill CIBP. Set plug @ 6925'. Load & test csg to 4000 psi. Ok. Dump 35' cement on plug. New PBTD @ 6890'. SWI & SDFN.

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Water Analysis:	10-20-98
Specific Gravity	1.050
PH	6.7
Calcium	24048 mpl
Magnesium	3646 mpl
Chloride	99265 mpl
Sulfates	125 mpl
Bicarbonates	400 mpl
Soluble Iron	40 mpl

10-21-98 Day: 35
 SICP 0. RIH w/68 jts. Lay down same. RIH w/5 ½ Model "R" pkr, 2 7/8 seat nipple & 153 jts 2 7/8 tbg (4729.27'). Set pkr @ 4745' w/16 pts compression. RU swab & swab well to 4350'. RU Wedge WL & perforate @ 4872-83 (11' @ 4 spf, 44 holes). RD WL. RU swab. IFL 4000' (fluid level came up 350' after perforating). Made 2 swab runs & swab dry. SD for 1 hr. Run #3 FL @ 4400', recovered 350' of fluid. SD for 1 hr. Run #4 FL @ 4300', recovered 300' of fluid. SD for 1 hr. Run #5 FL @ 4300'. Made 5 runs @ 4300' swabbing from 4700. Recovered 250'. Today recovered 9 bbls. No shows. 4 bbls over load. SWI & SDFN.

10-22-98 SITP 30 psi (15 hrs). CP 0. Bleed down tbg (natural gas). RU swab. IFL 4100. Made 2 runs & swab dry. Leave well open to tank. Recovered 4 bbls. No shows. SDFN.

Water analysis: 10/21/98-Last run

SG	1.075
PH	8.1
CL	42544
CA	2004
MG	1458
SO4	200
HCO3	200
FE	0

10-23-98 Left well open to tank over night. No fluid recovered over night. RU swab. IFL 4000'. Made 2 runs & swabbed dry. Recovered 3 bbls. No shows. Total recovery from this zone is 16 bbls. 11 bbls over capacity. RD swab. Unset pkr & POOH laying down tbgs. RU Wedge WL & set Alpha 10k CIBP @ 4825'. Dump 35' cement on plug (FL @ 1700'). New PBTD @ 4790'. ND BOP & NU wellhead flange. SWI & release all rental equipment. Sent tree & accessories to Kvaerner-Hobbs, NM for redress, test & store. Have 37 jts of 2 7/8" bad tbgs located on SW corner of location. Have 419 jts of 2 7/8" L-80 tbgs on racks located on NW corner of location.