CARBON ENERGY INTERNATIONAL

WNS MENASHA 32-1 WELL

DAILY ACTIVITY REPORT

09/15/93	Location staked. Anticipate construction on road to location to begin on 09/16/93.
09/16/93	Building access road to location.
09/17/93	Lower section of road built. Building upper section. Starting to gravel lower section.
09/18/93	Finalized building of road. Began building of location.
09/19/93	Continued building of location.
09/20/93	Continued building of location.
09/21/93	Continued building of location.
09/22/93	Continued building of location.
09/23/93	Continued building of location.
09/24/93	Continued building of location.
09/25/93	Continued building of location.
09/26/93	Continued building of location.
09/27/93	Continued building of location.
09/28/93	Commence rocking of location and began construction of cellar.
09/29/93	Continued rocking of location.
09/30/93	Continued rocking of location.
10/01/93	Continued rocking of location.
10/02/93	Continued rocking of location.
10/03/93	Continued rocking of location.
10/04/93	Constructing cellar.
10/05/93	Constructing cellar.
10/06/93	Continued constructing of cellar.
10/07/93	Location complete. Begin installation of anchors.
10/08/93	Construction of anchors.
10/09/93	Construction of anchors.
10/10/93	Construction of anchors.
10/11/93	Continued construction of anchors.
10/12/93	Continued construction of anchors.
10/13/93	Will begin cementing the anchors on 01/14/93.
10/14/93	Waiting for rig.
10/15/93	No report.
10/16/93	No report.
10/17/93	No report.

10/18/93 No report.

10/19/93 No report.

10/20/93 Location completed.

10/21/93 Location complete.
10/22/93 Location complete.

10/23/93 Location complete.

10/24/93 Location complete.

10/25/93 Location complete.

10/26/93 Location complete.

10/27/93 Location complete.

10/28/93 Location complete.

10/29/93 Location complete.

10/30/93 Location complete.

10/31/93 Location complete.

11/01/93 Location complete.

11/02/93 Location complete.

11/03/93 Location complete.

11/04/93 Rigging up Pool drilling rig. Expect to spud late afternoon on 11/05/93.

11/05/93 6 to 9 am waited on permit to move cat. 9 am to 7 pm move and rig up.

11/06/93 6 to 11 am rig up. 11 am to 12 pm drilling RH and mouse hole. 12 to 12:30 pm rig repair / pump liner. 12?30 to 2 pm lay down swivel and pick up kelly. 2 to 4:30 pm spud surface. 4:30 to 5 pm survey of .75° at 88'.

11/07/93 6 to 11:45 pm rig repair / cellar jet. 11:45 pm to 4:30 am drilling surface to 200'. 4:30 to 5 am circulate and survey at .5°. 5 to 5:45 am TOH. 5:45 to 8 am run 3 jtscasing. 8 am to 9:15 am rig up BJ and circulate hole. 9:15 to 9:30 am cement casing plug down, cir 1 Bbl cement to surface (90 sacks). 9:30 to 7 pm WOC and NU BOP.

11/08/93 6 pm to 9:30 pm test BOP. 9:30 to 4:30 am TIH with bit and tag cement at 101'. TOH to pick up bottom hole assemble. TOH for brush in drill pipe. 4:30 to 5 am test BOP. 5 to 8:45 am drilling float and cement. 8:45 am to 5:15 pm drilling: 200 to 256 feet running 8000 on bit; 256 to 351 feet running 10000 to 12000 on bit; 351 to 371 feet running 16000 on bit. 5:15 to 6 pm survey of .5° at 342'.

11/09/93 6 to 6:45 pm drilling from 599' to 1157'; 25000 on bit. 3:30 to 4:30 pm circulate for samples; gas shows at 927' to 937' at 350 units. 4:30 to 5 pm circulate for logs. 5 to 7 pm TOH for logs; lay down bottom hole assembly; SLM. 7 to 7:45 pm wait on Schlumberger. 7:45 pm to 3:45 am rig up and log well. 3:45 to 5:30 am TIH with bit and circulate. 5:30 to 6 am circulate and wait on BJ.

11/10/93 6 to 10 am cir and wait on BJ. 10 am to 12:30 pm rig kelly and lay down drill pipe and collars. 12:30 pm rig kelly and lay down drill pipe and collars. 12:30 to 2:15 pm run 27 jts of 7", rig cir half way in hole. 2:15 to 2:45 cir hole and rig up BJ. 2:45 to 3:15 pm cement - Lead cement: 125 sacks of BJ light, 1/2 lb celloflake, 2% A7. Tail cement: 100 sacks class E, 1/4 lb celloflake, 3% A7. Cir 6 Bbl cement to surface. 3:15 pm to 1:45 am wait on cement, NU and nipple down. 1:45 to 3 am test BOP and manifold. 3 am to 6 am pick up drill pipe and collars with bit.

11/11/93 6 to 9 am pick up drill pipe and drill collars. 9 to 10 am trip to check pipe. 10 am to 1 pm drill cement and shoe. Tag cement at 1104'. 1 to 2 pm TOH with bit. 2 to 5 pm rig up core rig on rig floor. 5 pm to 6 am waited on core rig drill stem.

11/12/93 6 am to 8:30 pm wait on drill stem for core bit. 8:30 pm to 5:45 am TIH with bit. 5:45 to 6 am circ water out of hole. Presently at 1161' and TOH with core bit.

11/13/93 6 am to 6:30 am circ water out with 36 vis mud. 6:30 am to 6 am core formation - recovered 85'. Presently at 1246' and coring.

11/14/93 6 am to 4 pm core from 1246' to 1280'. 4 to 7:30 pm lay down drill pipe. 7:30 to 11 pm rig down pump derrick and draw works from rig floor. 11 to 11:45 pm and 1:30 TIH with bit. 1:30 to 2 am circ mud out of hole. 2 to 6 am ream core hole out to 6 1/4:. Presently at 1280'.

11/15/93 6 to 6:30 am ream core hole to 6 1/4" from 1161' to 1280'. 6:30 to 7 am drill 6 1/4" hole from 1280' to 1564'. 7 to 7:30 am pulled into casing to hook up blooie line. 7:30 to 8 am TIH to drill. 8 to 8:30 am trip into casing - 13 jts, pulled into casing to clean out. 8 to 9:15 am rig up blooie line. 9:15 am to 6:45 pm cleanout from 1161' to 1564'. 6:45 pm to 3 am clean out with 5 BPM water and 500 cfm. 3 to 4 am clean out with 3.5 BPM water and 500 cfm. 4 to 6 am clean out with .8 BPM water and 750 cfm. Moderate returns of 85% coal and 15% sand. Presently at 1564' and cleaning out. 284' drilled last 24 hours.

11/16/93 6 to 9 am CO to TD with 750 cfm air. 9 to 11:30 am pull into casing and test well. shut in at 9:30 - 9:45 am 2#; 10:15 am 7#; 11:30 am 15#. Had 8' flare for 45 seconds to one minute. 11:30 am to 3:30 pm TIH and CO to Td with 750 cfm air and 10 Bbl mist per hour. Bridges at 1251', 1387', 1529', and 1548' with 5' fill on bottom. 3:30 to 6:15 pm pull into casing and test. Had 8' flare for 45 seconds to one minute. After 2 hours - 8# 6:15 to 9:15 pm TIH and CO to TD. Bridges at 1251', 1466', 1532', and 1552'. 9:15 to 11 pm pull into casing and fill hole with water. 11 pm to 1:15 am TIH and CO to TD with 5 Bbl water per minute. 1:15 to 2:15 am circ hole clean. 2:15 to 3:30 am pull into casing and let well set. 3:30 to 5:30 am TIH and CO to TD with 4 Bbl water per minute. Presently at 1564' and CO and beginning operations to set liner.

11/17/93 6 to 7 am drill from 1564' to 1594'. 7 to 9 am pull into casing and let well set. 9 to 11 am CO bridges at 1240', 1271', 1300', 1387', 1405', 1493', 1527', and 1548' with 5' of fill on bottom. 11 am to 11pm Aternated: 1 hour 35' off bottom rotating slowly and 1 hour CO bridges and fill. 11pm to 12 am 35' off bottom and tagged. 12 to 1 am let well set. 1 to 2 am pulled out of hole and strapped pipe. 2 to 6 am waited on Baker liner tools. Presently at a depth of 1594' and waiting on Baker tools.

11/18/93 6 to 6:30 am wait on Baker tools. 6:30 to 7 am wait on BJ float collar. 7 to 10:30 am pick up liner hanger and TIH with liner. 10:30 am to 12:15 pm circ liner to TD. 12:15 to 1:15 pm circ hole clean. 1:15 to 2:15 pm set liner hanger, cement and reverse out. Plug down at 2:15 pm. Cement with 100 sx class G with 3% KCL, 16 lb. Liner top at 1057'. 2:15 to 3 pm TOH. 3 pm to 6 am WOC. Presently at a depth of 1594'.

11/19/93 to
01/12/94 No reports.

02/08/94 Move in Taylor completion rig. SDON.

02/09/94 From 6:00 am 02/09/94 to 6:00 am 02/10/94 RU WL and run CBL from PBTD to surface. 4 1/2" bond unchanged. 7" bond good from TOL to 890'. Bond fair to pour to 530'. Fair bond to surface. RT 7" gauge ring RD WL. RT 4 1/2" csg scraper and 3 7/8" bit. TIH with 4 1/2" pkr and set at 1097'. PT liner to 750 #. Pump into BS at 550 #. SD and pressure bleeds of f to 375# in 10 min. TOH with pkr. RU WL and sheet 4 squeeze holes from 1380 to 81'. RD WL. NU tbg head adaptor and SDON.

Resumption of activity on the 32-1 well actually started at 6:00 am on 02/09/94 instead of 6:00 am on 02/08/94. Therefore we are advancing this report one day to correctly reflect the activity on the well..

02/11/94 TIH with 4 1/2" pkr and set at 1097'. Establish circ through squeeze holes down BS at 450#. Release pkr and TOH. ND stripping head and NU BOP steak. R/U cementers. TIH with 7" pkr on 1 jt tbg PT blind runs to 1000#. POH with skr. TIH with 4 1/2" cmt rtr on tbg. Bumped at 2 BPM and 900# with slight returns. Pumped 3 BPM at 1225# and slight retuns. Pumped down BS at 2 BPM and 650# with slight returns. Batch mix 4 Bbl cement at 16 pkg. Pumped cmt at 2 BPM and 750# Displacd with 5 1/4 Bbl H2O at 2 BPM and 650#. Final pressure at 750#. SD. Sting out of retianer and pull 20'. Reverse out trace of cmt at 3 BPM and 350#. SD and POH with tbg. WOC.

02/12/94 To be forwarded to you upon receipt.

02/13/94 TIH and drill retainer and cmt. Fall through good cmt at 1389'. Rotate to Btm, circ hole clean and TOH. Run cbl across liner. TOC at 1369'. Gap in cement below squeeze holes. TIH with 4 1/2" pkr to 1126'. Test squeeze to 1000#. Takes fluid at 1000# and holds at 500#. Open pkr by-pass and roll hole with clean H_2O. Set pkr and pump 15 Bbls 48° H_2O down TOL at 3 BPM and 650#. Release pkr and TOH. Run temp survey from 800' to 1400'. All zones to ±1350' appear to take fluid. TIH with mech set RBP and set at 1205'. POH. Dump bail 2 sx sand on RBP. TIh with 7" pkr and set at 928'. Test lines to 2000#. Test BS to 500# and bleed off to 250# and hold for squeeze. Est rate down liner top at 2 BPM and 575#. Batch mix 70 sx cement. Problems with cmt - weight at 13.5 PPL. Planned for 16 PPG cmt to pit. SDON.

02/14/94 Pull BJ to location. Release pkr. Pull up and set back down. Reset as before. Put 500# on BS. Establish circ down liner top. Batch mix 100sx class G, 2% CaCl with fluid loss (114 ft^3, 20.3 Bbl). Pump cmt at 2 BPM and 465 psi. Displace with 8 Bbl clean H_2O at 2 BPM and 500#. Final pressure 1 BPM at 640#. SD. Pressure at 580#. Bled off to 515# and holding after 30 minutes. Bleed back to truck 1 1/2 Bbl. Pressure dips to 400# and holding. Displace 1 1/2 Bbls and SI at 475#. Check all valves and suction. WOC.

02/15/94 Csg pressure 500#. Tbg pressure ±100#. Bleed off tbg/csg, release pkr and POH. TIH with 6 1/4" bit and scraper. Tag soft cmt at 1010'. Circ and drill god cmt to TOL. TOH. PT TOL to 100#. TIH with 3 7/8" bit and scraper to sand on RBP . POH. TIH with retrieving head and circ sand off RBP. Release RBP and POH. Run CBL from 1420' to TOL. Have cmt from TOL down to 1130' and from 1215' down to 1260'. Re-run bond log with 600# pressure with no change. SD. Wait on orders. Final report until resumption of activity.

02/16/94 Wait on orders. RU WL and perf 4 squeeze holes at 1345' to 1346'. TIH with 4 1/2" pkr and set at 1449'. PT tbg to 2000#. Reset pkr aat 1125' and PT liner top to 1000#. Pressure up on squeeze holes to 2000# at 1/4 BPM. 2600# at .5 BPM. SD. ISIP at 800#. Release pkr and POH. TIH with tbg and spot 2 Bbl balanced cement plug from 1237' to 1384'. POH. TIH with 4 1/2" pkr and set at 1125'. Reverse circ and set pkr. Hold 500# on BS. Displace cmt with 1/2 Bbl to 1950# and SD. ISIP at 800#. Wait 15 minutes. Displace with 1/4 Bbl to 1850# and SD. ISIP is 1120#. Wait 30 minutes. Displace with 1/8 Bbl to 1850# and SD. ISIP is 1500#. Wait 30 minutes. Pressure up to 1800#. ISIP is 1800#. SDON. RD BJ.
02/17/94 Tbg pressure = 100#. BS = 500#. Release pressure. PT BS and TOL to 3000# for 15 minutes. Good. Release pkr and POH. TIH with 3 7/8" bit and scraper. Tag soft cmt at 1330'. Wash and rotaate through soft cmt to 1345'. Rotate through harder cmt from 1345' to 1348'. Rotaate and wash through soft cmt to 1365'. No indication of cmt below 1363'. TIH to PBTD and TOH. Run CBL. TOL at ± 1325'. TIH and roll hole with city H_2O. TOH. SDON.

02/18/94 to
02/20/94 Shut in. Preparing for injectivity test and frac.

02/20/94 PT csg to 3000# with Taylor pmp. Blow hose at 2000#. closed valve at 2600#. Bled off 100# in 30 minutes. TIH and spot 150 gals 7.5% DI Hcl with iron sequestering agent at 1522'. TOH. Perforate coals: 1363' to 11370', 1398' to 1403', 1515' to 1522' with 3 1/8" csg gun, 4 spf, 90° phasing, 4" holes, 22" penetration. Well on slight vacuum after 1st run. Hole staying full (shot from top down). TIH with 4.5" spot tool with 4' spacing. Elements set going in hole. TOH and release elements. TIH. Attempt to circ, tbg plugged. TOH with live acid in bottom 4 stands. Found metal sliver in spit tool. TIH. Elements on spit tool set going in. TOH and release elements. TIH. BD perfs with 400 Bbl Hcl as follows:

ZONE	BPM	PSI	ISIP
1515-22'	2.0	1150	850#
1399-1403'	1.5	1100	775#
1395-1399'	1.5	1600	850#
1366-70'	1.5	1130	825#
1362-66'	1.5	1100	850#

Release spit tool and POH. Pump down BS at 6 BPM and 1350#. Pump 24 Bbl and SD. ISIP = 900#, 5 minutes ISIP = 680#, 10 minutes = 665#, 15 min = 644#. SWION.

02/21/94 SICP = 220#. Bleed off pressure. Pick up BHA for injection and falloff test. TIH to 1337' with Amernda/MRD guages below pkr. Set pkr and attempt injection. Pumped at .4 to .05 BPM and well pressured up to 500# after 5.3 Bbl. Suspect down hole shut off closed. Pick up on tool and attempt injection. Pressured up to 500# after 1.2 Bbl. Released pkr and TOH pulling wet string. Lay down downhole assembly shut off valve and TIH to 1410' and circ hole clean. Set pkr at 1323' with guages at 1331'. Attempt injection. Well pressured up to 420# immediately. Changed test design to slug test. Inject to pressure of 510# and close surface valve. Pumped total of .6 Bbl before reaching maximum pressure. monitor bleed off as follows: 5 minutes = 250#, 20 minutes = 160#,, 40 minutes = 155#, 1 hour = 145#. Leave well SI overnight.

02/22/94 SICP = 145#. Blow down. POH with testing BHA. NU tree saver. RU BJ for frac. Fran down csg with 55,000 gal 70 quality N2 foaam with 8,000# 40/70 sand and 42,000# 20/40 sand. Well treated at 40BPM and 2100 psig, max pressure 2100 psig. Lost blender with

12,000# sand remaining to pump. Flush 2 Bbl shy of top perf and SD. ISIP = 1400#. 5 minutes ISIP = 1260#. RD frac crew and flow well to pit on 1/8" choke with 1200 psig. After 2 hours open to 1/4" at 925#. Well making very little sand. After 1.5 hours, opn on 1/2" choke on 400#. Well began making more sand. Change back to 1/4" choke at 300#. Well making little sand. Flow well to pit overnight on 1/4" choke.

02/23/94 Well flowing to pit on 1/4" choke. FCP = 18 psig. Rate = 45 mcfd with slugs foam. Gas trying to burn. Blow well down. Pull tree-saver. TIH with WL set 4 1/2" RBP and set at 1090'. Load hole and PT RBP to 3000#. TIH and spot 650 gals. 7 1/2% DI HCI at 945'. TOH. Perforate coals with 4" csg gun, top down as follows: 560 - 66 (1 spf), 685 - 88 (4 spf), 710 - 12 (4 spf), 926 - 34 (4 spf), 942 - 45 (4spf), 90° phasing, .5" holes. Fluid level remained at surface. TIH with 7" pkr and set at 938'. BD perfs 942 - 45 with 85 gals, 7.5% Hcl at 1.5 BPM and 300#. Communicated to upper zones. POH with pkr. TIH with 7" RBP and set at 938'. TOH. TIH with 7" pkr and set at 867'. BD perfs 926 - 34 with 125 gals 7.5% Hcl at 2.5 BPM and 460#. SD. ISIP = 330#. Release pkr and POH. TIH and release RBP. Pull up to 738'. Displace BS with 30 Bbl H_2O. SD with 275# on well. SION.

02/24/94 SICP = 80 psi. Blow well down. Set RBG at 738'. TOH. TIH with pkr to 672'. Break down perfs 685 - 88' and 710 - 12' with 105 gals 7 1/2% Hcl at 2 BPM and 400#. ISIP = 250#. Release pkr and POH. TIh and release RBP. Reset at 606'. BD perfs 560 - 66' with 125 gals 7 1/2% Hcl at 1.5 and 300#. ISIP = 225#. Retrieve RBP and POH. Displace hole with 10 Bbl H_2O at 2 BPM and 300#. ISIP = 245#. TIH with 7" pkr and pressure gauges below. Set pkr at 550' with gauges at 563'. Open MFE tool and well flowed little water to surface. Attempt injection/falloff test at .05 BPM. Pressured up immediately. Perform slug test to 135#. Close MFE and falloff for 1.5 hours. Release pkr and POH. NU tree-saver. Frac well down csg with 32,000 gals 70Q foam and 43,000# 40/70 and 20/40 sand. Treated at 35 - 40 BPM at 1200 psi. Max pressure = 1280 psi. Max sand conc = 4 ppg +. Flush 2 Bbl shy of top perf ans SD. ISIP = 800#. Flow well back immediatly on 1/8" choke at 610#. Open to 1/4" at 530# after 1.5 hours. Well making little sand.

02/25/94 FCP = 65 psi on 1/4" choke (115 mcfd - will not burn). Open on 1/2" choke for one hour. Open on 2" with 10 to 12 psi FCP. Pull tree-saver. Well flowing heavy foam with 6' intermittent flare. Kill well with 5 Bbl H_2O. TIH and tag sand inside liner at 1060'. CO to RBP with foam. Release RBP and POH. Kill well with 5 Bbl H_2O. TIH with 7 stands. Well flowing foam and gas. Kill tbg and land tbg in BOPs at 962'. Well flowing small amount of gas up backside (2'flare). SI csg and flow well up tbg. FCP = 5# at 6:00 pm., 40# at 7:00 pm with trace of gas.

02/26/94 Csg pressure = 200#. Tbg dead. Blow down csg flaring gas. TIH. Have 10' soft fill. Pull up and land tbg at 1455'. NDBOP. NUWH. Kick well around with N_2. Pressure up wellbore to 200#. Csg = 150#, tbg = 180#. Open tbg to bit on 2" line at 11:00 am. 12:00 pm - FCPs = 105#, well slugging foam and gas. 2:00 pm - tbg dead. csg pressure = 90#. 4:00 pm - tbg dead, csg pressure = 125#. Leave well open to pit.

02/27/94 Tbg dead. Csg = 245#. RU swab and swab as follows:

Run#	FL	Swab Depth	Recovery	csg	Comment
1	?	500'	1/4 Bbl foam	250#	
2	350'	800'	2 Bbl H_2O	250#	Black H_2O, little foam
3	---	1000'	"	240#	"
4	450	"	"	230#	"
5	---	"	"	230#	Black H_2O, some foam
6	---	"	"	220#	Clean H_2O, foam
7	---	"	"	220#	"
8	---	"	"	---	"
9	?	1300'	"	210#	"
10	?	"	"	210#	"
11	?	"	Well kicked off and flowed w/ 200# pcp. Install 1/8" choke at 10:10 am - 82# - dry gas Install 1/2" choke at 10:20 am - 82# - 10:45 am- 80# - gas/foam		
20	---	1300'		78#	gas/foam little water
25	---	1300'		77#	gas/foam
30	---	1325'		72#	"
35	---	1325'		74#	"
40	---	1350		55#	"
50	---	1360'		58#	foam/gas

SOPN 1375'	1375'	50#	2# tubing gas 2# tubing

Recover approx 20-25 Bbls Total Mostly foam at 50. Gas throughout tests: 10:00 am 94# tubing on 1/8" (38 MCFD). 4:00 pm 2# tbg on 1/2" choke (104 MCFD - approx 50% foam = 52 MCFD. Gas burns clear to orange (N_2). SDON. Csg shut in / tbg open.

02/28/94	8:15 am	Casing pressure 205 psi (shut in)				
		Tubing pressure 3.5 psi				
2" choke	10:12 am	Begin swabbing; gas show throughout				
		Run	Fluid	Tubing	Casing	Per Hour
	10:12 am	1	400'	2 psi	215#	
	10:17 am	2	850'	1#	195#	3Bbls
	10:21 am	3	800'	1#	185#	3Bbls
	10:25 am	4	750'	1.5#	175#	2Bbls
	10:29 am	5	1000'	1.5#	170#	2Bbls
1/2" choke	10:35 am	6	1100'	1.5#	165#	1 Bbls
	10:39 am	7	1150'	1#	160#	1 Bbls
0 - 12' flare	10:41 am	Well begins to blow water/foam/gas (Approx 25 to 50% Gas)				
	10:45 am	Producing in slugs		10.5#	150#	4 Bbls
	10:50 am	of water, foam,		11#	150#	4 Bbls
	10:55 am	and gas		9#	138#	4 Bbls
Flame clear	11:00 am			6.5#	130#	4 Bbls
to orange	11:05 am			10#	125#	4 Bbls
(N_2)	11:10 am			7#	118#	4 Bbls
	11:15 am			6#	111#	4 Bbls
	11:20 am			5.5#	107#	4 Bbls
	11:25 am			4.5#	100#	4 Bbls
	11:30 am			4.25#	100#	4 Bbls
	11:35 am			4#	95#	4 Bbls
	11:40 am	8	1300'	4#	95#	.1 Bbls
	11:44 am	9	1300'	2#	88#	.1 Bbls
	11:48 am	10	1350'	1#	82#	.1Bbls
	11:52 am	11	1350'	1#	76#	.1 Bbls
	11:56 am	12	1350'	1.5#	72#	.25 Bbls
3/4" choke	12:08 pm	13	1350'	2#	66#	.1 Bbls
	1:20 pm	20	1350'	1.5#	45#	.1 Bbls
	2:00 pm	28	1350'	1#	30#	.1 Bbls
	2:05 pm	Sand line parted. SU down to to 4:15 pm				
	5:00 pm	40	1350'	1.5#	55#	.25 Bbls
SDON.	7:00 pm	Park pumping unit at bottom of location road. Prepare to move in tomorrow pm.				

03/01/94	8:45 am	Casing pressure 184 psi (shut in)				
		Tubing pressure 2#				
		Run	Fluid	Tubing	Casing	Per Hour
2" choke	9:02 am	1	500'	0#	189#	4Bbls
	9:07 am	2	700'	1#	178#	4Bbls
	9:11 am	3	750'	1.5#	167#	3Bbls
	9:16 am	4	------	1.5#	160#	3Bbls
	9:20 am	5	650'	1#	155#	2Bbls
	9:23 am	6	650'	1#	151#	1 Bbls
	9:26 am	7	------	1#	148#	1 Bbls
Flowing	9:29 am	Flowing		6#	139#	6' flare
	9:39 am			8#	135#	Foam
	9:45 am			7.5#	130#	
	9:50 am			6#	125#	Little Water
	9:55 am			5#	120#	
	10:00 am			4.75#	112#	
	10:05 am			4#	105#	
	10:10 am			3.5#	100#	
	10:15 am			3#	95#	
	10:20 am			3#	90#	
	10:25 am			2#	88#	
	10:25 to 10:40 am	7 swabbing runs		----		
	10:40 am				48#	
	10:45 am				49#	

10:50 am		49#	
11:15 am	swabbing 1150'	50#	
12:00 to 12:30 pm	12 swabbing runs	32#	
12:30 to 12:45 pm	1 run	32#	
12:45 to 1:30 pm	3 runs	36#	
1:30 to 2:30 pm		41#	
3:00 pm		60#	Some Sand
3:00 to 5:00 pm	swab. Deliver rods. SDON.		

03/02/94 7:00 am Casing pressure 155 psi, tbg at 0. Blow well down. Prep to run rods and pump. TIH with tbg. Tag fill at 1505'. Reverse circ well with fresh water. Produced approx .5 Bbl sand with returns of coal/shale. TOH with tbg. Install landing collar, perf sub, etc. TIH with tbg (44 jts) and land at approx 1486'. RIH with rods and pump. Land pump. Level pumping unit and begin pumping. Build 20 psi on casing in 2 hours. Tubing flowed water while rigging up pumping unit. Start pumping at 6:15 pm at 9 SPM Water rate approx 4 B/H (96 B/D). Rig up orifice tester. SDON at 7:00 pm. North Pacific Security on location.

03/03/94 8:00 am Unit operating. Casing pressure at 1 psi on 1/4" plate (8.95 MCFD). 4.5 BWPH (108 BPD). Water cloudy to foamy with some coal fines. Replace 1/4" plate with 1/8" plate in orifice tester. Casing pressure increased immediately to 6 psi (7.06 MCFD). Move all CEI equipment from 7-1 location to the 32-1 location. 4:00 pm Pressure approx 10 psi (9.45 MCFD) 4.3 BWPH (103 BPD). Pumping at 9 SPM. Release Taylor. 7:00 pm Pressure approx 9 psi (6.8 MCFD).

03/04/94 At 7:00 am unit pumping. Propane tank 1 at 20% and tank 2 at 80%. Casing gauge - down, orifice gauge at 71 psi and 9.5 SPM. Changed chart at 7:20 am 1/8" plate. Water is clear to foamy. 1" fine sand and coal in bucket. 2.75 minutes for 5 gallon bucket (62.34 BPD). At 5:30 pm unit pumping. Tank 1 at 15% and tank 2 at 80%. Casing gauge at 54 1/2 psi, orifice gauge at 5 psi through 4/64" choke at 9.5 SPM. Water is foamy at 3 gallons per minute (102.86 BPD). Pit is low. Grease unit, add oil. Plate size 1/8". Pump running smoothly.

03/05/94 At 8:00 am Propane tank 1 at 7% and tank 2 at 80%. Casing gauge at 24 psi, orifice gauge at 21 psi through 8/64" plate at 9.75 SPM. Water is foamy at 2.5 gallons per minute (85.71 BPD). High gas consintrate. Pit is low. Pump running smoothly. Change chart at 8:40 am - 20 psi, 1/8" plate. Tank 1 being filled while on unit. At 6:10 pm tank 1 at 82% and tank 2 at 78%. Casing gauge at 43 psi and orifice at 0 psi through 1/8" plate, pumping at a rate of 9 SPM. Water is foamy at 2.5 gallons per minute (85.71 BPD) with high gas concentrate. Pit is low. Pump running smooth. Change casing and orifice gauges.

03/06/94 At 8:10 am Propane tank 1 at 81% and tank 2 at 72%. Casing gauge at 12 psi and orifice gauge at 12 psi through 1/8" plate. Pumping at a rate of 9.5 SPM. Water is foamy at 3 gallons per minute (102.86 BPD) with high gas concentrate, 2" sand and coal in bucket. Pit is low. Pump running smoothly. Change chart at 8:30 am with 12 psi and 1/8" plate. At 4:40 pm tank 1 at 80% and tank 2 at 70%. Casing gauge at 12 psi and orifice gauge at 11 psi through 1/8" plate. Pumping at a rate of 9.25 SPM. Water is foamy at 3 gallons per minute (102.86 BPD) with high gas concentrate. Pit is low. Pump running smooth.

03/07/94 At 6:50 am Propane tank 1 at 80% and tank 2 at 66%. Casing gauge at 10 to 11 psi and orifice gauge at 11 psi through 1/8" plate. Pumping at a rate of 9 SPM. Water is foamy at 3 gallons per 1 minute and 10 seconds (64.46 BPD) with high gas concentrate in foam. Pit is low. 2.5 gallons coal and sand in bucket. Pump rinning smoothly, change chart at 7:30 am with 1/8" plate and 10 to 11 psi. At 5:00 pm Propane tank 1 at 79% and tank 2 at 63%. Casing gauge and orifice gauge at 10 psi through 1/8" plate. Pumping at a rate of 9 SPM. Water is foamy at 2.5 gallons per minute. High gas concentrate in foam. 1" coal with little sand. Pit is low. Pump running smoothly but has developed a rattling sound.

03/08/94 At 6:50 am, propane tank 1 at 75% and tank 2 at 59%. Casing gauge at 10 psi, orifice gauge at 12.5 psi through 1/8" plate. Pumping at a rate of 9.5 SPM. Water is foamy at 2.5 gal per minute (85.71 BPD). High gas concentrate in foam, 1" coal on bottom of bucket. Pit is low. Pump running smoothly. At 5:00 pm, propane tank 1 at 75% and tank 2 at 59%. Casing gauge at 9 psi, orifice gauge at 10.5 psi through 8/64" plate. Pumping at a rate of 9 SPM. Water is clear, less foamy at 2 gal per minute ((68.57 BPD) with 1/2" coal and sand in bottom of bucket. Pit is low. Pump running smothly.

03/09/94 At 7:00 am, propane tank 1 at 74% and tank 2 at 54%. Casing pressure at 8 psi, orifice pressure at 11.5 psi through 1/8" plate. Pumping at 9 SPM. Water is clear and less foamy, making approximately 2 gallons per minute (68.57 BPD), 1/4" coal and sand overnight. Pit is low. Pump running OK, however slightly laboring on upstroke at 1:00 pm. Taylor crew arrived on location. Casing pressure at 8 psi, orifice pressure at 10 psi through 1/8" plate. Water is clear - less foamy. Move pumpjack and pull rods. TIH to tag fill. Tagged fill at 1537' (14' fill). SDON. Will reverse circ fill on 03/10/94AM.

03/10/94 At 7:00 am the pump is down. Taylor crew on location. Load hole with 15 Bbl H_2O to kill well. TIH with open ended tubing to reverse circulate. Tagged fill at 1517' (top of lowest perfs), 34' of fill. Reverse circ - sand and coal - some larger pieces of coal. Clean out sand from tubing pump. TOH with tubing. Install landing collar, perf sub, etc. TIH with tubing (44 jts) and land at approx 1486'. RIH with rods and pump. Land pump and begin pumping at 3:00 pm.

3:00 pm shut in casing.
3:20 pm 3 psi
4:20 pm 14 psi
5:45 pm 33 psi
8:30 pm 53 psi - Open casing to hold 50 psi and flow 7.25 psi through 1/8" orifice plate.
9:15 pm 50 psi - pressure levelled off.
11:50 pm 47 psi on casing and flow 6.75 psi through 1/8" plate.

Propane:
At 5:00 pm Tank one at 71% and Tank 2 at 51%.

03/11/94

Unit pumping.

Time	Casing	Orifice
7:00 am	40 psi	
7:30 am	close casing in at 40 psi	
9:00 am	60 psi	
9:30 am	68 psi	
10:00 am	70 psi	
10:30 am	73 psi	
11:00 am	78 psi	
1:00 pm	91 psi	
1:30 pm	95 psi - produce foam through tubing	
2:00 pm	99 psi	
3:30 pm	112 psi	
4:00 pm	119 psi	
4:10 pm	119 psi - sustained flare on tubing	
4:15 pm	118 psi - open to 1/8" orifice with	44 psi
4:20 pm	114 psi	44 psi
4:30 pm	109 psi	44 psi
4:35 pm	105 psi	44 psi
4:40 pm	100 psi	44 psi
4:45 pm	98 psi	44 psi
4:50 pm	95 psi	44 psi
4:55 pm	92 psi	44 psi
5:00 pm	91 psi	44 psi
5:10 pm	89 psi	42 psi
5:15 pm	80 psi	40 psi
Water clear - pump inconsistent		
5:25 pm	90 psi - pinch back to find rate	37.00 psi
5:30 pm	70 psi	18.75 psi
9:00 pm	51 psi	13.75 psi

Propane:
At 4:45 pm Tank 1 at 67% and Tank 2 at 44%. Water is clear foamy and gas 120 gallons per hour. Pit is low.

03/12/94 Pumping - measure gas from casing through 1/8" orifice plate.

Time	Casing	Orifice
7:50 am	40.0 psi	11 psi
8:00 am	42.0 psi	11 psi
8:10 am	45.5 psi	11 psi
8:25 am	49.0 psi	11 psi
8:35 am	51.0 psi	11 psi
8:40 am	52.0 psi	11 psi
8:45 am	53.0 psi	11 psi
8:50 am	54.0 psi	11 psi
9:00 am	56.0 psi	11 psi
9:15 am	59.0 psi	11 psi
10:20 am	66.5 psi	11 psi
10:25 am	67.5 psi	11 psi
10:35 am	69.5 psi	11 psi
Open Casing		
10:50 am	74 psi	10.0 psi
10:55 am	72 psi	19.0 psi
11:10 am	68 psi	16.0 psi
11:15 am	67 psi	15.0 psi

11:20 am	65 psi	14.5 psi
11:25 am	64 psi	13.5 psi
11:35 am	62 psi	12.5 psi
11:45 am	58 psi	12.0 psi
11:50 am	57 psi	11.5 psi
11:55 am	55 psi	11.0 psi
12:00 pm	54 psi	10.0 psi
12:10 pm	52 psi	10.0 psi
12:15 pm	51 psi	10.00 psi
12:20 pm	50 psi	9.50 psi
12:30 pm	48 psi	8.50 psi
12:40 pm	47 psi	8.50 psi
12:45 pm	46 psi	8.00 psi
12:55 pm	44 psi	7.00 psi
1:10 pm	43 psi	6.75 psi
1:20 pm	41 psi	6.25 psi
1:50 pm	40 psi	5.50 psi
2:00 pm	40 psi	5.00 psi
2:15 pm	39 psi	5.00 psi
2:20 pm	38 psi	5.00 psi

5:00 pm Pumping - approx 42 psi on casing and 8.5 psi on 1/8" plate. Approx 100 gallons per hour water through tubing with some foam. Tubing burns with approx 1 foot flare.
Propane:
At 5:00 pm Tank 1 at 62% and Tank 2 at 38%. Water at 120 gallons per hour with little foam and gas. Pit is low.

03/13/94 42 psi on casing, 8.5# on 1/8" plate. Held steady through night. Approx 100 gallons per hour through tubing. Tubing flare (1 foot) burned through evening. 10:00 am Decide to hook up test seperator. Begin to plumb into wellhead. 5:00 pm Direct tubing into separator and start to calibrate and adjust water dump. Casing shut in and built to 87 psi and shut down at 6:30 pm.
Propane:
At 8:00 am Tank 1 at 60% and Tank 2 at 34%. Water at 100 gallons per hour - clear and little foam. Pit is low.

03/14/94 9:15 am Casing at 118 psi - only produced 10 Bbl water from 6 pm to 9 am. Pump not operating optimally. Increase pump rate to 13 SPM. Produced 3 Bbls water in 1.5 hours. Housing approx 40 to 50 # on separator.

Time		Sep	Casing	Orifice (1/8")
11:00 am		55 psi	120 psi	7.5 psi
11:30 am	6.00" in tank*	60 psi	119 psi	7.5 psi
11:45 am	6.25"	60 psi	111 psi	9.0 psi
12:00 pm	6.50"	65 psi	111 psi	10.5 psi
12:15 pm		60 psi	111 psi	10.5 psi
12:45 pm	7.25"	55 psi	108 psi	9.5 psi
1:30 pm	8.25"	53 psi	106 psi	8.5 psi
Slow pump down to 8 SPM.				
2:00 pm		44 psi	106 psi	7.5 psi
2:15 pm		37 psi	108 psi	6.5 psi
Ran Echometer 2:15 to 2:45				
2:45 pm		8 psi	110 psi	
3:15 Open casing to separator - casing and tubing flowing through separator.				
		110 psi		85 psi
3:30 pm		100 psi		90 psi
3:45 pm		80 psi		80 psi
4:00 pm		65 psi		65 psi
4:15 pm		50 psi		27 psi
4:30 pm		50 psi		23 psi
4:45 pm		47 psi		9 psi
5:15 pm		47 psi		9 psi
9:30 pm		40 psi		7 psi

Made 14 Bbls of water through 6:00 am 03/15/94.
Propane:
At 5:00 pm Tank 1 at 55% and Tank 2 at 24%. Water - no flow. Pit is low.

03/15/94 7:00 am Casing and tubing both through separator 20# on separator, 5# on 1/8" orifice. 8:00 am Determine that water is circ back down casing, isolate casing and close inj tubing to separator. 8:30 Separator pressure 32#, casing 38# (at this time I had downstream of separator closed to monitor amount of gas in produced water. There was almost none. Shut down to run echometer. 9:00 Start pumping unit (everything closed in - making good water.

Time	Separator	Casing	Orifice(1/8")	Water (1.75 Bbl/inch)
9:15am	40#	40#	0	
9:30am	I went to town to find materials. I just cracked downstream choke to keep from pressuring up too high. no orifice pressure.			
12:00 pm	24#	68#	0	6"
1:00 pm	20#	75#	0	8.5"
1:05 pm	Shut down for repairs and to run another echometer.			
1:30 pm	Start Pump	84#	0	9"
2:00 pm	20#	88#	0	
2:15 pm	20#	92#	0	
2:45 pm	30#	85#	11# (Reopend casing to separator)	
3:00 pm	30#	82#	11#	13"
3:15 pm	30#	80#	11#	14"
3:30 pm	28#	78#	10#	14.75"
3:45 pm	28#	76#	9.5#	15.25"
4:00 pm	30#	74#	9#	15.50"
4:15 pm	34#	72#	10#	16.00#
5:00 pm	32#	67#	10#	17.00"
5:30 pm	28#	64#	9#	

At 5:30 we had made almost 35 Bbls of water in about 8.5 hours. It still did not appear very gas cut. I dumped the water to 2" at 5:30 pm. The water is in an open top tank, so the wind makes it hard to get an exact measurement, which would account for variations in readings. It produced at a steady rate all day. Echometer reading indicaate that we dropped the water 225' from 8:30 am to 1:00 pm in 7" casing, that would be about 9 Bbls. In that time we pumped approx 16 Bbls. On both charts, the beginning wellhead indication is the same distance from the water level as what I am assuming to be the reflected wellhead indication.

03/16/94 Produced 35 Bbls water from 6:00 pm 03/15/94 to 7:00 am 03/16/94. After echometer test, water was at about 1340 feet at 7:00 am 03/16/94.

Time	Sep	Casing	Orifice (1/8")
7:00 am	25	57	6.0
7:45 am	Shut down to run echometer.		
8:10 am	35	68	9.5
8:45 am	25	67	6.5
9:00 am	24	65	6.0
9:30 am	24	64	6.0
9:45 am	26	64	7.0
10:00 am	27	64	7.0
10:30 am	28	63	7.5
11:00 am	26	63	7.0
11:30 am	26	63	7.0
1:00 pm	26	61	7.0
1:30 pm	28	60	7.5
2:00 pm	26	60	7.0
2:30 pm	26	60	7.0
3:00 pm	26	60	7.0

Run echometer and check for sand in separator (none). Water is at 1310 feet.

Time	Sep	Casing	Orifice (1/8")
3:30 pm	Start up with 66 # on casing.		
4:00 pm	26	66	7.0
4:30 pm	25	66	6.5

From 8:00 am until 4:30 pm we made 14 Bbls of water.

03/17/94 Well made 31 Bbl H_2O from 4:30 pm 03/16/94 to 7:30 am 03/17/94.

Time	Sep	Casing	Orifice
7:30 am	26	59	6
7:30 am	Ran echometer test.		
8:00 am		64	
8:30 am	26	63	6
9:00 am	26	62	6
9:30 am	26	61	6
10:00 am	25	61	6
10:30 am	26	60	6
11:00 am	25	60	6
12:00 pm	25	60	6
12:30 pm	25	60	6
2:00 pm	25	60	6

2:00 pm Shut down to install check valve and check for sand in separator. Ran echometer test about every half hour. The fluid appears to rise 240' in the 4.5 casing to within 60' of the liner top. The pump was back on line around 4:30 pm. The flow had stabilized by 6:00 pm at 50# upstream of the separator and flowing 8.75# on the 1/8" orifice. Well made about 11.5 Bbls from 7:30 am until 2:00 pm.

03/18/94 From 5:30 pm 03/17/94 to 7:00 am 03/18/94 made 30 Bbls H_2O.

Time	Upstream of Sep	Orifice	Adj Choke Size
7:00 am	47#	7.00#	1/16
Ran echometer test.			
7:30 am	49#	7.00#	1/16
8:00 am	51#	7.00#	1/16
8:30 am	50#	7.00#	1/16
9:30 am	50#	7.00#	1/16
10:00 am	49#	6.75#	1/16
12:00 pm	48#	6.75#	1/16
No change to 3:00 pm when echometer test was run.			
4:30 pm	48#	6.75#	1/16

The well made approx 15 Bbls in 7 hours.

From 6:00 am 03/19/94 to 6:00 am 03/20/94

Time	Upstream of Sep	Orifice	Adj Choke Size
7:00 am	made 28 Bbls of water in 15 hours.		
8:00 am	47.0#	30.0#	
8:15 am	44.0#	26.0#	
8:20 am	42.0#	23.0#	Start gradually opening adjustable choke from 1/16" to 1/8".
8:30 am	40.0#	22.0#	
8:45 am	36.0#	19.0#	
9:00 am	34.0#	18.0#	
10:45 am	28.0#	13.5#	
11:00 am	Run echometer.		
12:00 pm	27.0#	13.5#	
12:30 pm	25.5#	12.5#	
1:00 pm	25.0#	12.5#	
1:30 pm	24.0#	12.0#	1/8
2:00 pm	24.0#	11.5#	1/8
4:00 pm	24.0#	10.5#	1/8
4:30 pm	Run echometer.		
5:00 pm	27.0#	13.0#	1/8

From 6:00 am 03/20/94 to 6:00 am 03/21/94 Made 45 Bbls water in 24 hours.

TIme	Upstream of Sep	Orifice	Adj Choke Size
7:30 am	21#	9#	1/8
7:30 am	Ran echometer test - Approx 1360'.		
8:00 am	23#	10#	1/8
9:00 am	21#	9#	1/8
12:30 pm	21#	9#	1/8
2:00 pm	22#	9#	1/8
3:00 pm	22#	9#	1/8
3:00 pm	Ran echometer test.		
3:30 pm	23#	9#	1/8
4:00 pm	22#	9#	1/8

03/21/94 From 9:00 am 03/20/94 to 6:30 am 03/21/94 well made 33 Bbls.

Time	Upstream	Orifice

6:30 am	19#	7.5#
10:30 am	Increased pump rate to 10 to 10.5 SPM.	
12:30 pm	20#	7.5#
1:00 pm	Ran echometer test. The fluid level had dropped.	
1:45 pm	20#	7.5#
4:30 pm	20#	7.5#
4:30 pm	Ran echometer test. The fluid level had risen slightly.	
4:45 pm	23#	8.5#
5:30 pm	22#	8.0#

Checked separator for sand and coal and found approx 3 to 5 gallons very fine dark brown coal in bottom of separator. The coal fines were not present yesterday evening. Will run a salinity check on the reserve pit during the morning of 03/22/94.

03/23/94 At 8:00 am, unit pumping at 10 SPM. Sep pressure at 26 psi, 4.5 psi on 1/8" plate. Produced 22 Bbls water in 15 hours. Fluid level 1390'. Approx 1/4" of black, extremely fine grained coal in bottom of bucket. Water approx 18,000 ppm chloride, 7.2 ph and 51° F. At 3:00 pm, unit pumping at 10 SPM. Sep pressure at 26 psi, 5.0 psi on 1/8" plate. Increased strokes to 13.5 SPM producing approx 1 Bbl water per hour. Fluid level at 1390'. At 5:30 pm, unit pumping at 13.5 SPM. Separator pressure at 26 psi, 5.0 psi on 1/8" plate. Produced 10.5 Bbls during past 9 hours. Fluid level 1400'. Close casing to check gas cut in tubing and pump efficiency. Possible that check valve recycling tubing water. Restrict riser valve to prevent water returning to casing.

NOTES: Total in hole: Bull plug: 1 joint, 6' perf jt, landing collar, 45 joints. Bottom of bull plug at 1511' (wellhead). Bottom of perf sub at 1478'(wellhead). Well head approx 1' above ground level. KB was 18' above ground level. Bull plug at 1528' KB. Perf jt at 1495' KB.

03/24/94 At 7:00 am unit pumping at 10.5 SPM. Pressure on upstream at 27#, adj choke setting at 1/16", orifice at 5# with plate size at 1/8". 17 Bbls clear water since 6:30 pm on 03/23/94 (1.36 BPH). Ran echometer test. Reserve pit level is low. At 5:00 pm unit pumping at 10 SPM. Pressure on upstream at 27#, orifice at 5#, adj choke setting at 1/16" with plate size at 1/8". 14 Bbls water since 7:00 am. Color is clear with a ph of 7.5. Ran echometer test - fluid level at 1450'. Reserve pit level is low.

03/25/94 At 7:00 am unit pumping at 10 SPM. Ran echometer test at 7:45 am. Upstream pressure at 25 psi, adj. choke setting at 1/16", orifice pressure a 3.5 psi with plate size of 1/8". 21.5 Bbls clear water produced in the past 14 hours. At 5:00 pm upstream pressure at 28 psi, adj choke setting at 1/16", orifice pressure at 4.5 psi with plate size of 1/8". 12.25 Bbls of clear water at 10 BPH. Propane tank 1 at 49% and tank 2 at 30%. Reserve pit level is low.

03/26/94 At 9:00 am unit pumping at 10 SPM. Upstream pressure at 21 psi, adj choke setting at 1/16", orifice pressure at 3 psi with plate size of 1/8". 26.7 Bbls clear water with 65°F temperature and a pH level of 6.9 at 16 BPH. At 6:00 pm upstream pressure at 22 psi, adj choke setting at 1/16", orifice pressure at 3.5 psi with plate size of 1/8". 12.25 Bbls clear water produced at 9 BPH. Propane tank 1 at 44% and tank 2 at 24%. Reserve pit level is low.

03/27/94 At 9:00 am unit pumping at 10 SPM. Upstream pressure at 20 psi, adj choke setting at 1/16", orifice pressure at 3 psi with plate size of 1/8". 21 Bbls clear water produced at 15 BPH. At 5:30 pm upstream pressure at 22.5 psi, adj choke setting at 1/16", orifice pressure at 3.5 psi with plate size of 1/8". 11 Bbls clear water produced at 9 BPH. Propane tank 1 at 39% and tank 2 at 15%. Reserve pit level is low.

03/28/94 At 7:00 am unit pumping at 10 SPM. Upstream pressure at 19 psi, adj choke setting at 1/16", orifice pressure at 3 psi with plate size of 1/8". 19.25 Bbls clear, 58°F water with pH of 7.1 produced at 14 BPH. At 5:00 pm upstream pressure at 22 psi, adj choke setting at 1/16", orifice pressure at 3 psi with plate size of 1/8". 14 Bbls clear water produced at 10 BPH. Propane tank 1 at 35% and tank 2 at 12%. Reserve pit level is low.

03/29/94 At 6:30 am pumping at a rate of 10 SPM. Pressure on the upstream at 19 psi, adj choke setting at 1/16", orifice pressure at 3 psi with plate size of 1/8". Produced 19.25 Bbls clear water in 11.5 hours (40.08 BPD). Peopane fuel tank 1 at 40%, tank 2 at 72%. Pit level is low. Separator malfunctioned during the night. Shut unit down to check separator.

Correction: 03/28/94 to 03/29/94 Water production was 33 BPD not the reported 14 BPH.

03/31/94 Pump running at 10 SPM. Produced 10.5 Bbls clear water in 12 hours (21 BPD). Upstream pressure at 23 psi with 1/16" adj choke setting - orifice pressure at 60 psi. Reserve pit level is half full. At 5:30 pm unit is pumping at a rate of 10 SPM. The upstream pressure is 24 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 10.5 hours (20 BPD).

04/01/94 At 7:00 am, pump is running at a rate of 10 SPM. The upstream pressure is 23 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". At 5:30 pm, pump is running at a rate of 10 PM. The upstream pressure is 23 psi, adj choke setting at 1/16", orifice pressure at 1.75 psi with plate size of 1/8". Produced 5.25 Bbls clear water in 9.5 hours (13.26 BPD). Propane tank 1 at 33% and tank 2 at 45%. Reserve pit is 1/3 full.

04/02/94 At 9:00 am pumping is running at a rate of 10 SPM. The upstream pressure is at 23 psi, adj choke stting at 1/16", orifice pressure at 2.24 psi with plate size of 1/8". Produced 19.25 Bbls clear water in 15 hours (30.8 BPD). Fuel tank 1 at 31% and tank 2 at 37%. Reserve pit level is 1/3 full. At 5:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 24 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 13.25 Bbls clear water in 9 hours (35.33 BPD). Fuel tank 1 at 28% and tank 2 at 36%. Reserve pit level is 1/2 full.

04/04/94 At 6:15 am, pump is running at a rate of 10 SPM. The upstream pressure is 25 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 22.75 Bbls clear water (55°F, 7.3 pH) in 13 hours (42 BPD). Propane tank 1 at 18%, tank 2 at 23%. Reserve pit is half full. At 6:00 pm, pump is running at a rate of 10 PM. The upstream pressure is 32 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 16.5 Bbls water (milky, soapy then clear, 60°F, 7.4 pH) in 11 hours (36 BPD). 1/16" coal in bottom of bucket. Propane tank 1 at 82% and tank 2 at 82%. Reserve pit is half full.

04/06/94 At 6:45 am pump is running at a rate of 10 SPM. The upstream pressure is at 25 psi, adj choke stting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 19 Bbls clear water in 13 hours (35.08 BPD). Fuel tank 1 at 77% and tank 2 at 74%. Reserve pit level is empty. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 14 Bbls clear, 59°F, 7.2 pH water in 10 hours (33.60 BPD). Fuel tank 1 at 75% and tank 2 at 70%. Reserve pit is empty.

04/07/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 2.5 psi with plate size of 1/8". Produced 19 Bbls clear water in 13 hours (35.08 BPD). Fuel tank 1 at 71% and tank 2 at 65%. Reserve pit level is 1/4 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 27 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 10.5 Bbls clear water in 10.5 hours (24 BPD). Fuel tank 1 at 69% and tank 2 at 62%. Reserve pit is 1/4 full.

04/08/94 At 6:45 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 14 Bbls clear, 58°F, 7.4 pH water in 13 hours (25.85 BPD). Fuel tank 1 at 66% and tank 2 at 58%. Reserve pit level is 1/3 full. At 4:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 10.5 Bbls clear, 58°F, 7.5 pH water in 9.5 hours (26.53 BPD). Fuel tank 1 at 64% and tank 2 at 57%. Reserve pit is 1/3 full.

04/09/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 19.25 Bbls water in 16 hours (28.88 BPD). Fuel tank 1 at 60% and tank 2 at 50%. Reserve pit level is 1/3 full. At 7:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke setting at 1/16", orifice pressure at 1.75 psi with plate size of 1/8". Produced 7.5 Bbls clear water in 9.5 hours (18.95 BPD). Fuel tank 1 at 58% and tank 2 at 48%. Reserve pit is 1/3 full.

04/10/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 17.5 Bbls water in 14.5 hours (28.97 BPD). Fuel tank 1 at 55% and tank 2 at 44%. Reserve pit level is 1/3 full. At 7:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 27 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear water in 9 hours (32.67 BPD). Fuel tank 1 at 54% and tank 2 at 42%. Reserve pit is 1/2 full.

04/11/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 23 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 17.5 Bbls clear. 55°F 7.2 pH, chlorides at 13,000 PPM water in 13 hours (32.31 BPD). Fuel tank 1 at 50% and tank 2 at 38%. Reserve pit level is 1/2 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 15.75 Bbls milky soapy, 60°F 7.6 pH, chlorides at 14,000 PPM water in 10 hours (37.80 BPD). Fuel tank 1 at 49% and tank 2 at 37%. Reserve pit is 1/2 full.

04/12/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 21 Bbls water in 14 hours (36 BPD). Fuel tank 1 at 46% and tank 2 at 31%. Reserve pit level is 2/3 full. 1/16" coal in bottom of bucket. At 5:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 32 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 12.25 Bbls milky soapy water in 10.5 hours (28 BPD). Fuel tank 1 at 45% and tank 2 at 29%. Reserve pit is 2/3 full.

04/13/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 27 psi, adj choke stting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 15 Bbls clear, 59°, 7.8 pH with 13,500 PPM chlorides water in 13.5 hours (26.67 BPD). Fuel tank 1 at 41% and tank 2 at 23%. Reserve pit level is 2/3 full. 1/16" coal in bottom of bucket. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 32 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 14 Bbls Milky and a little soapy 60°, 7.5 pH, 13,500 PPM chlorides water in 11 hours (30.55 BPD). Fuel tank 1 at 38% and tank 2 at 20%. Reserve pit is 2/3 full.

04/14/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke stting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 17.5 Bbls milky to clear water in 13 hours (32.31 BPD). Fuel tank 1 at 35% and tank 2 at 16%. Reserve pit level is 2/3 full. At 5:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 34 psi, adj choke setting at 1/16", orifice pressure at 2 psi with plate size of 1/8". Produced 14 Bbls clear to milky water in 10.5 hours (32 BPD). Fuel tank 1 at 32% and tank 2 at 13%. Reserve pit is 2/3 full.

04/15/94 At 6:45 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 14 Bbls milky to clear, 54°F, 7.6 pH, 13,000 PPM Chlorides water in 13 hours (25.85 BPD). Fuel tank 1 at 28% and tank 2 at 10%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 31 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky, 61°F, 7.8 pH, 13,500 PPM Chlorides water in 10 hours (25.2 BPD). Thin film of coal on bottom of bucket. Fuel tank 1 at 85% and tank 2 at 85%. Reserve pit is 2/3 full.

04/16/94 At 6:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 17.5 Bbls milky to clear water in 14 hours (30 BPD). Fuel tank 1 at 83% and tank 2 at 81%. Reserve pit level is 2/3 full. At 4:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky water in 9.5 hours (26.53 BPD). Fuel tank 1 at 82% and tank 2 at 80%. Reserve pit is 2/3 full.

04/17/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 17.5 Bbls milky to clear water in 16 hours (26.25 BPD). Fuel tank 1 at 77% and tank 2 at 75%. Reserve pit level is 2/3 full. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky water in 9 hours (28 BPD). Fuel tank 1 at 76% and tank 2 at 73%. Reserve pit is 2/3 full.

04/18/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 14 Bbls milky to clear, 56°F, 7.2 pH, 13,000 PPM Chlorides water in 13 hours (25.85 BPD). Fuel tank 1 at 74% and tank 2 at 69%. Reserve pit level is 2/3 full. At 5:30 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 12.5 Bbls clear to milky, 60°F, 7.5 pH, 13,000 PPM Chlorides water in 10 hours (25.2 BPD). Fuel tank 1 at 72% and tank 2 at 66%. Reserve pit is 2/3 full.

04/19/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 15.5 Bbls milky to clear water in 13 hours (28.62 BPD). Fuel tank 1 at 65% and tank 2 at 62%. Reserve pit level is 2/3 full. At 7:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 32 psi, adj choke setting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 12.25 Bbls clear to milky water in 12 hours (24.5 BPD). Fuel tank 1 at 65% and tank 2 at 58%. Reserve pit is 2/3 full.

04/20/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1.5 psi with plate size of 1/8". Produced 14 Bbls milky to clear, 56°F, 7.3 pH and 13,500 PPM chlorides water in 12 hours (28 BPD). Fuel tank 1 at 61% and tank 2 at 55%. Reserve pit level is 2/3 full. At 4:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 31 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky, 59°F, 7.5 pH and 13,500 PPM chlorides water in 9 hours (28 BPD). Fuel tank 1 at 59% and tank 2 at 54%. Reserve pit is 2/3 full.

04/22/94 At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 32 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear to milky, 62°F, 7.6 pH and 13,000 PPM chlorides water in 8 hours (26.25 BPD). Fuel tank 1 at 50% and tank 2 at 39%. Reserve pit is 2/3 full.

04/23/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 17.5 Bbls milky to clear water in 16 hours (26.25 BPD). Fuel tank 1 at 45% and tank 2 at 34%. Reserve pit level is 2/3 full. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky water in 9 hours (28 BPD). Fuel tank 1 at 44% and tank 2 at 32%. Reserve pit is 2/3 full.

04/24/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls milky to clear water in 16 hours (18.38 BPD). Fuel tank 1 at 39% and tank 2 at 27%. Reserve pit level is 2/3 full. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 31 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear to milky water in 9 hours (28 BPD). Fuel tank 1 at 38% and tank 2 at 24%. Reserve pit is 2/3 full.

04/26/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls clear water in 13 hours (25.85 BPD). Fuel tank 1 at 29% and tank 2 at 15%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Fuel tank 1 at 90% and tank 2 at 87%. Reserve pit is 2/3 full.

04/27/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 15.5 Bbls clear, 57°F, 7.7pH, 13,500 ppm chlorides water in 14 hours (26.57 BPD). Fuel tank 1 at 85% and tank 2 at 84%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear, 59°F, 7.6 pH, 13,000 ppm chlorides water in 10 hours (25.20 BPD). Fuel tank 1 at 84% and tank 2 at 82%. Reserve pit is 2/3 full.

04/28/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear water in 13.5 hours (21.78 BPD). Fuel tank 1 at 82% and tank 2 at 78%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear water in 10 hours (25.20 BPD). Fuel tank 1 at 80% and tank 2 at 75%. Reserve pit is 2/3 full.

04/29/94 At 8:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 15.75 Bbls clear, 55°F, 7.7 pH, 13,500 ppm chlorides water in 15 hours (25.20 BPD). Fuel tank 1 at 75% and tank 2 at 70%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear, 55°F, 7.6 pH, 13,500 ppm chlorides water in 9 hours (23.33 BPD). Fuel tank 1 at 74% and tank 2 at 68%. Reserve pit is 2/3 full.

04/30/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 25 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls clear water in 15 hours (22.4 BPD). Fuel tank 1 at 71% and tank 2 at 63%. Reserve pit level is 2/3 full. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 9 hours (23.33 BPD). Fuel tank 1 at 70% and tank 2 at 62%. Reserve pit is 2/3 full.

05/01/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 23 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls clear water in 15 hours (22.4 BPD). Fuel tank 1 at 65% and tank 2 at 56%. Reserve pit level is 2/3 full. At 6:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 9 hours (23.33 BPD). Fuel tank 1 at 63% and tank 2 at 55%. Reserve pit is 2/3 full.

05/02/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke stting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls, 54°F, 7.8 pH, 13,000 ppm chlorides, clear water in 13.5 hours (24.89 BPD). Fuel tank 1 at 59% and tank 2 at 50%. Reserve pit level is 2/3 full. At 5:00 pm pumping at a rate of 10 SPM. The upstream pressure is at 27 psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls soapy to clear, 56°F, 7.8 pH, 13,500 ppm chlorides water in 9.5 hours (26.53 BPD). Fuel tank 1 at 58% and tank 2 at 48%. Reserve pit is 2/3 full.

05/03/94 At 7:30 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke stting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls clear water in 14 hours. Fuel tank 1 at 56% and fuel tank 2 at 44%. Reserve pit level is 2/3 full. At 5:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear water in 10 hours. Fuel tank 1 at 55% and fuel tank 2 at 40%. Reserve pit is 2/3 full.

05/04/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 17.5 Bbls clear, 55 F, 7.4 pH, 13,500 ppm chlorides water in 14 hours. Fuel tank 1 at 52% and tank 2 at 36%. Reserve pit level is 2/3 full. At 5:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 31 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear, 62 F, 7.6 pH, 13,500 ppm chlorides water in 10.5 hours. Fuel tank 1 at 48% and tank 2 at 35%. Reserve pit is 2/3 full.

05/05/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 27psi, adj choke setting at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear water in 13 hours. Fuel tank 1 at 45% and tank 2 at 30%. Reserve pit is 2/3 full. At 5:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 31 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 clear water in 10 hours. Fuel tank 1 at 44% and fuel tank 2 at 29%. Reserve pit is 2/3 full.

05/06/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 26 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 15.75 Bbls clear , 62 F, 7.8 pH, 14,000 ppm chlorides water in 15 hours. Fuel tank 1 at 40% and tank 2 at 22%. Reserve pit level is 2/3 full. At 6:00 pm pump is running at a rate of 10 SPM, serviced unit, greased pump etc. The upstream pressure is at 31 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear, 64 F, 7.6 pH, 13,500 ppm chlorides water in 9 hours. Fuel tank 1 at 38% and tank 2 at 19%. Reserve pit is 2/3 full.

05/07/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14.5 Bbls clear water in 15 hours. Fuel tank 1 at 34% and tank 2 at 15%. Reserve pit level is 2/3 full. At 6:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 32 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 9 hours. Fuel tank 1 at 31% and tank 2 at 12%. Reserve pit is 2/3 full.

05/08/94 At 9:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 14 Bbls clear water in 15 hours. Fuel tank 1 at 31% and tank 2 at 12%. Reserve pit level is 1/2 full. At 6:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 34 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 9 hours. Fuel tank 1 at 25% and tank 2 at 3%. Reserve pit is 1/2 full.

05/09/94 At 7:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 28 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear 56 F, 7.7 pH, 13,500 ppm chlorides water in 13 hours. Ran out of gas to charge Echo meter, only got one trace. Fuel tank 1 at 19% and tank 2 empty. Reserve pit level is 1/2 full. At 5:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 32 psi. adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 10.5 Bbls clear, 64 F, 7.6 pH, 13,000 chlorides water in 11 hours. Fuel tank 1 at 63% and tank 2 at 78%. Reserve pit is 1/2 full.

05/10/94 At 6:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 12.25 Bbls clear water in 13 hours. Fuel tank 1 at 60% and tank 2 at 74%. Reserve pit level is 1/2 full. At 6:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 30 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 7 Bbls clear water in 13 hours. Fuel tank 1 at 60% and tank 2 at 72%. Reserve pit is 1/2 full.

05/11/94 At 8:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 27 psi, adj choke stting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 7 Bbls clear, 56 F, 7.6 pH, 13,000 ppm chlorides water in 13 hours, need phenol red solution for pH test. Fuel tank 1 at 56% and tank 2 at 68%. Reserve pit level is 1/2 full. At 6:00 pm pump is running at a rate of 10 SPM, serviced unit, greased pump, ect. The upstream pressure is at 30 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with platee size of 1/8". Produced 5.25 Bbls clear, 63 F, 8.2 pH, 13,500ppm chlorides water in 10 hours, water prod. down, sound's like pump at bottom of hole hitting pretty hard,"Hitting alot harder than it was". Fuel tank 1 at 55% and tank 2 at 66%. Reserve pit is 1/2 full.

05/12/94 At 7:00 am pump is running at a rate of 10 SPM, but missing, on one cylinder. The upstream pressure is at 27 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear water in 13 hours. Fuel tank 1 at 52% and tank 2 at 62 %. Reserve pit level is 1/2 full. At 7:00 pm pump is running at a rate of 10 SPM. The upstream pressure is at 29 psi, adj choke setting is at 1/16", orifice pressure at 1 psi with platee size of 1/8". Produced 8.75 Bbls clear water in 12 hours. Fuel tank 1 at 51% and tank 2 at 60%. Reserve pit is 1/2 full.

05/13/94 At 8:00 am pump is running at a rate of 10 SPM. The upstream pressure is at 23 psi, adj choke stting is at 1/16", orifice pressure at 1 psi with plate size of 1/8". Produced 8.75 Bbls clear,63 F, 7.8 pH, 13,000 ppm chlorides water in 13 hours. Fuel tank 1 at 46% and tank 2 at 55%. Reserve pit level is 1/2 full. At 8:15 pm pump is not running. Adj choke setting is at 1/16", plate size of 1/8". Produced 1.75 Bbls clear, 6.0 F, 7.8 pH, 13,000 ppm chlorides water in 13 hours, pump not running found electrical box had broke loose, was unplugged. Started pump at 8:30 pm, shut pump off 8:35 pm, pump has bearing out on pully left side of motor. Closed casing valve's 8:40 pm. Fuel tank 1 at 45% and tank 2 at 55%. Reserve pit is 1/2 full.

05/14/94 At 7:00 am pump is not running. The upstream pressure is at 65 psi, adj choke setting is closed. Pressure on casing, gauge 65lbs after 10 min. of being open, closed line at orifice. Reserve pit level is 1/2 full. At 6:00 pm pump is not running. The upstream pressure is at 93 psi, adj choke setting is closed. Open casing valve. Closed line at shut off before oriface let stand for 30 min. Casing press 93lbs. Closed casing bleed line 7:00 pm. Reserve pit is 1/2 full.

05/15/94 t At 9:00 am pump is not running. The upstream pressure is at 104 psi, adj choke setting is closed. Open casing, closed line at orifice let stand 30 min 104 psi, closed casing drain line. At 7:00 pm pump is not running. The upstream pressure is at 114 psi, adj choke setting is closed. Open casing, closed line at orifice let stand for 30 min. 114 psi, closed casing drain line.

05/16/94 At 8:30 am pump is not running. The upstream pressure is at 129 psi, adj choke stting is closed. Open casing, close line at orifice. Let stand 30 minutes - 129 psi, close casing, drain line. At 6:00 pm pump is not running. The upstream pressure is at 131 psi, adj choke setting is closed. Open casing valve, close orifice line and let stand 30 minutes - 131 psi. Closed casing-bleed line. Reserve pit is 1/2 full.

05/17/94 t At 7:00 am pump is not running. The upstream pressure is at 135 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min, 135 psi. Drain casing line. At 6:00 pm pump is not running. The upstream pressure is at 140 psi, adj choke setting is closed. Open casing valve, close orifice line let stand 30 min at 140 psi. Close casing bleed line.

05/18/94 At 9:00 am pump is not running. The upstream pressure is at 148 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min, 148 psi. Close casing bleed line. At 7:00 pm pump is not running. The upstream pressure is at 150 psi, adj choke setting is closed. Open casing valve, close orifice line let stand 30 min at 150 psi. Close casing bleed line.

05/19/94 At 7:00 am pump is not running. The upstream pressure is at 151 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 minutes at 151 psi. At 7:00 pm, pump is not running. The upstream pressure is at 153 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 minutes at 153 psi. Close casing bleed line.

05/20/94 At 9:00 am pump is not running. The upstream pressure is at 159 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 159 psi. Close casing bleed line. At 7:00 pm pump is not running. The upstream pressure is at 159 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min. at 159 psi. Close casing bleed line.

05/21/94 At 9:00 am pump is not running. The upstream pressure is at 160 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 160 psi. Close casing bleed line. At 7:00 pm pump is not running. The upstream pressure is at 161 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min. at 161psi. Close casing bleed line.

05/22/94 At 9:00 am pump is not running. The upstream pressure is at 168 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 168 psi. Close casing bleed line. At 7:00 pm pump is not running. The upstream pressure is at 169 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min. at 169 psi. Close casing bleed line.

05/23/94 At 7:00 am pump is not running. The upstream pressure is at 170 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 170 psi. Close casing bleed line. At 7:30 pm pump is not running. The upstream pressure is at 170 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand 30 min. at 170 psi. Close casing bleed line.

05/24/94 At 8:00 am pump is not running. The upstream pressure is at 172 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 172 psi. Close casing bleed line. Did not go to pump 05-24-94 pm.

05/25/94 At 6:30 am pump is not running. The upstream pressure is at 179 psi, adj choke setting is closed. Open casing valve, close orifice line, let stand for 30 min. at 172 psi. Close casing bleed line. Did not go to pump 05-24-94 pm.

06/06/94 Rig down from 7:00 to 10:00 am.

06/14/94 11:00 am pump running. By 11:30 am there was a steady stream of water out the tubing to atmosphere, with 240# on shut in casing. At 12:00 pm, the shut in casing pressure was 233# with steady water out tubing. At 2:45 pm, the tubing started flowing independent of the pump. Reconfigured the plumbing to utilize the separator once again to prevent the pressure from the casing side to unload up the tubing.

Time	Casing SI	Tubing	Orifice 1/8"	
3:00 pm	220#	105#	10#	
3:30	217	100	9	
4:00	210	100	9	
4:30	208	100	9	
8:30	190	60	5	
9:00	190	50	5	(Opened choke on sep slightly)
7:00 am	148	35	4	
1:00 pm	130	30	3	

06/15/94 5:00 pm pump running at 9 SPM. Upstream pressure at 122, orifice pressure at 2, adj choke setting at 1/16" with a 1/8" plate size. Water is clear to milky. Propane tank 1 at 80% and tank 2 at 82%. Reserve pit is 1/4 full.

06/16/94 6:00 am pump running at 9 SPM. Upstream pressure at 104, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Water is clear to milky at 54°F. Propane tank 1 at 75% and tank 2 at 77%. Reserve pit in 1/4 full. 5:00 pm pump running at 9 SPM. Upstream pressure at 92, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear to milky. Propane tank 1 at 72% and tank 2 at 76%. Reserve pit is 1/4 full.

06/17/94 6:00 am pump running at 9 SPM. Upstream pressure at 77, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear to milky at 56°F, 7.8 pH, 13,000 PPM chlorides. Propane tank 1 at 68% and tank 2 at 72%. Reserve pit is 1/4 full.

06/18/94 4:00 pm pump running at 9 SPM. Upstream pressure at 75, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear at 60°F, 7.6 pH, 13,000 PPM chlorides. Propane tank 1 at 66% and tank 2 at 71%. Reserve pit is 1/4 full.

06/19/94 9:00 am pump running at 9 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear. Propane tank 1 at 60% and tank 2 at 67%. Reserve pit is 1/4 full. 6:00 pm pump running at 9 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear. Propane tank 1 at 59% and tank 2 at 64%. Reserve pit is 1/4 full.

06/20/94 9:30 am pump running at 9 SPM. Upstream pressure at 58, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear. Propane tank 1 at 54% and tank 2 at 60%. Reserve pit is 1/4 full. 6:00 pm pump running at 9 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear. Propane tank 1 at 53% and tank 2 at 58%. Reserve pit is 1/4 full.

06/21/94 6:00 am pump running at 9 SPM. Upstream pressure at 62, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 57.14 BPD water. Water is clear, 56°F, 7.7 pH, 13,500 PPM chlorides. Propane tank 1 at 52% and tank 2 at 56%. Reserve pit is 1/4 full. 6:00 pm pump running at 9 SPM. Upstream pressure at 58, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear. Propane tank 1 at 42% and tank 2 at 47%. Reserve pit is 1/4 full.

06/22/94 9:00 am pump running at 9 SPM. Upstream pressure at 53, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear, 58°F, 7.8 pH, 13,500 PPM chlorides. Propane tank 1 at 40% and tank 2 at 42%. Reserve pit is 1/4 full. 6:00 pm pump running at 9 SPM. Upstream pressure at 53, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear, 7.8 pH, 13,500 PPM chlorides. Propane tank 1 at 39% and tank 2 at 39%. Reserve pit is 1/4 full.

06/23/94 6:00 am pump running at 9 SPM. Upstream pressure at 45, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 42.86 BPD water. Water is clear.

Propane tank 1 at 35% and tank 2 at 36%. Reserve pit is 1/4 full. 5:00 pm pump running at 10 SPM. Upstream pressure at 48, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 31.17 BPD water. Water is clear. Propane tank 1 at 31% and tank 2 at 33%. Reserve pit is 1/4 full.

06/24/94 5:30 am pump running at 10 SPM. Upstream pressure at 43, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 31.17 BPD water. Water is clear, 54°F, 7.6 pH, 13,500. Propane tank 1 at 28% and tank 2 at 28%. Reserve pit is 1/4 full. 5:00 pm pump running at 10 SPM. Upstream pressure at 42, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear, 64°F, 7.7 pH, 13,500 PPM chlorides. Propane tank 1 at 25% and tank 2 at 25%. Reserve pit is 1/4 full.

06/25/94 9:30 am pump running at 10 SPM. Upstream pressure at 42, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear. Propane tank 1 at 80% and tank 2 at 81%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 42, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear. Propane tank 1 at 78% and tank 2 at 78%. Reserve pit is 1/4 full.

06/26/94 9:30 am pump running at 10 SPM. Upstream pressure at 42, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear. Propane tank 1 at 74% and tank 2 at 74%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 48, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear. Propane tank 1 at 70% and tank 2 at 71%. Reserve pit is 1/4 full.

06/27/94 9:00 am pump running at 10 SPM. Upstream pressure at 55, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky, 62°F, 7.8 pH, 13,500 PPM chlorides with thin layer of coal and sand on bottom of bucket. Propane tank 1 at 63% and tank 2 at 67%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 50, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky, 60°F, 7.5 pH, 13,500 PPM chlorides with thin layer of coal and sand on bottom of bucket. Propane tank 1 at 62% and tank 2 at 65%. Reserve pit is 1/4 full.

06/28/94 4:30 am pump running at 10 SPM. Upstream pressure at 51, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky with thin layer of coal and sand on bottom of bucket. Propane tank 1 at 59% and tank 2 at 62%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 50, orifice pressure at 3, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky. Propane tank 1 at 56% and tank 2 at 58%. Reserve pit is 1/4 full.

06/29/94 4:00 am pump running at 10 SPM. Upstream pressure at 50, orifice pressure at 3, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky, 57°F, 7.7 pH, 13,500 PPM chlorides with thin film of coal and sand on bottom of bucket. Propane tank 1 at 52% and tank 2 at 55%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 45, orifice pressure at 3, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky 64°F, 8.2 pH, 14,000 PPM chlorides. Propane tank 1 at 51% and tank 2 at 52%. Reserve pit is 1/4 full.

06/30/94 4:00 am pump running at 10 SPM. Upstream pressure at 44, orifice pressure at 3, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky with thin film of coal and sand on bottom of bucket. Propane tank 1 at 48% and tank 2 at 48%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 40, orifice pressure at 0, adj choke setting at 1/16" with a 1/8" plate size. Produced 0 gallons of water in 2 hours. Half inch of coal and sand on bottom of bucket - no water pumped in 2 hours. Propane tank 1 at 45% and tank 2 at 44%. Reserve pit is 1/4 full.

07/01/94 9:00 am pump running at 10 SPM. Upstream pressure at 62, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 62°F, 7.8 pH, 13,500 PPM chlorides with thin film of coal and sand on bottom of bucket. Propane tank 1 at 40% and tank 2 at 38%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 62, orifice pressure at 2.5, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is clear to milky 60°F, 7.4 pH, 14,000 PPM chlorides. Propane tank 1 at 81% and tank 2 at 82%. Reserve pit is 1/4 full.

07/02/94 9:00 am pump running at 10 SPM. Upstream pressure at 62, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is milky. Propane tank 1 at 77% and tank 2 at 78%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 28.57 BPD water. Water is milky. Propane tank 1 at 74% and tank 2 at 75%. Reserve pit is 1/4 full.

07/03/94 9:00 am pump running at 10 SPM. Upstream pressure at 59, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 68% and tank 2 at 72%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 56, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 67% and tank 2 at 70%. Reserve pit is 1/4 full.

07/04/94 9:00 am pump running at 10 SPM. Upstream pressure at 58, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 61°F, 7.4 pH, 13,000 PPM chlorides. Propane tank 1 at 62% and tank 2 at 66%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 59, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 63°F, 7.5 pH, 13,000 PPM chlorides. Propane tank 1 at 60% and tank 2 at 62%. Reserve pit is 1/4 full.

07/05/94 10:00 am pump running at 10 SPM. Upstream pressure at 59, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 55% and tank 2 at 58%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 57, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 51% and tank 2 at 55%. Reserve pit is 1/4 full.

07/06/94 10:00 am pump running at 10 SPM. Upstream pressure at 58, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 64°F, 13,000 PPM chlorides. Propane tank 1 at 49% and tank 2 at 52%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 56, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 63°F, 13,500 PPM chlorides. Propane tank 1 at 48% and tank 2 at 49%. Reserve pit is 1/4 full.

07/07/94 4:00 am pump running at 10 SPM. Upstream pressure at 58, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 45% and tank 2 at 46%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 55, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 44% and tank 2 at 41%. Reserve pit is 1/4 full.

07/08/94 4:00 am pump running at 10 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 59°F, 13,000 PPM chlorides. Propane tank 1 at 40% and tank 2 at 38%. Reserve pit is 1/4 full. 6:30 pm pump running at 10 SPM. Upstream pressure at 56, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky 64°F, 13,500 PPM chlorides. Propane tank 1 at 38% and tank 2 at 36%. Reserve pit is 1/4 full.

07/09/94 4:30 am pump running at 10 SPM. Upstream pressure at 60, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 35% and tank 2 at 31%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 59, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 32% and tank 2 at 28%. Reserve pit is 1/4 full.

07/10/94 4:30 am pump running at 10 SPM. Upstream pressure at 61, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 29% and tank 2 at 24%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 59, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 25% and tank 2 at 21%. Reserve pit is 1/4 full.

07/11/94 10:00 am pump running at 10 SPM. Upstream pressure at 63, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky, 64°F, 13,500 PPM chlorides. Propane tank 1 at 22% and tank 2 at 15%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 63, orifice pressure at 1, adj choke setting at 1/16" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 20% and tank 2 at 9%. Reserve pit is 1/4 full.

07/12/94 10:00 am pump running at 10 SPM. Upstream pressure at 69, orifice pressure at 1, adj choke setting at 1/32" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 18% and tank 2 at 5%. Reserve pit is 1/4 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 67, orifice pressure at 1, adj choke setting at 1/32" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 80% and tank 2 at 79%. Reserve pit is 1/4 full.

07/13/94 5:00 am pump running at 10 SPM. Upstream pressure at 70, orifice pressure at 1, adj choke setting at 1/32" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 78% and tank 2 at 76%. Reserve pit is 1/4 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 67, orifice pressure at 1, adj choke setting at 1/32" with a 1/8" plate size. Produced 34.29 BPD water. Water is clear to milky. Propane tank 1 at 74% and tank 2 at 74%. Reserve pit is 1/4 full.

07/14/94 5:00 am pump running at 10 SPM. Upstream pressure at 73, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 27.43 BPD water. Water is clear to milky. Propane tank 1 at 69% and tank 2 at 71%. Reserve pit is 1/4 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 73, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 27.43 BPD water. Water is clear to milky. Propane tank 1 at 68% and tank 2 at 60%. Reserve pit is 1/4 full.

07/15/94 9:00 am pump running at 10 SPM. Upstream pressure at 77, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 27.43 BPD water. Water is clear to milky. Propane tank 1 at 65% and tank 2 at 63%. Reserve pit is 1/4 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 74, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 27.43 BPD water. Water is clear to milky. Propane tank 1 at 62% and tank 2 at 60%. Reserve pit is 1/8 full.

07/16/94 9:00 am pump running at 10 SPM. Upstream pressure at 79, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 20.57 BPD water. Water is clear to milky, 64°F, 13,500 PPM chlorides. Propane tank 1 at 58% and tank 2 at 57%. Reserve pit is 1/8 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 77, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 20.57 BPD water. Water is clear to milky, 62°F, 13,000 PPM chlorides. Propane tank 1 at 56% and tank 2 at 55%. Reserve pit is 1/8 full.

07/17/94 9:00 am pump running at 10 SPM. Upstream pressure at 82, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 54% and tank 2 at 52%. Reserve pit is 1/8 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 72, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 50% and tank 2 at 48%. Reserve pit is 1/8 full.

07/18/94 7:30 am pump running at 10 SPM. Upstream pressure at 68, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 48% and tank 2 at 43%. Reserve pit is 1/8 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 63, orifice pressure at 0, adj choke setting at 1/64" with a 1/8" plate size. Produced 20.57 BPD water. Water is clear to milky. Propane tank 1 at 48% and tank 2 at 40%. Reserve pit is 1/8 full.

07/19/94 9:00 am pump running at 10 SPM. Upstream pressure at 63, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 44% and tank 2 at 34%. Reserve pit is 1/8 full. 7:00 pm pump running at 10 SPM. Upstream pressure at 68, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 42% and tank 2 at 34%. Reserve pit is 1/8 full.

07/20/94 3:30 am pump running at 10 SPM. Upstream pressure at 69, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 30% and tank 2 at 38%. Reserve pit is 1/8 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 74, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 35% and tank 2 at 24%. Reserve pit is 1/8 full.

07/21/94 3:30 am pump running at 10 SPM. Upstream pressure at 76, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 32% and tank 2 at 20%. Reserve pit is 1/8 full. 7:30 pm pump running at 10 SPM. Upstream pressure at 77, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 27% and tank 2 at 13%. Reserve pit is 1/8 full.

07/22/94 5:30 am pump running at 10 SPM. Upstream pressure at 79, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 24% and tank 2 at 8%. Reserve pit is 1/8 full. 11:00 pm pump running at 10 SPM. Upstream pressure at 77, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 82% and tank 2 at 83%. Reserve pit is empty.

07/24/94 10:00 am pump running at 10 SPM. Upstream pressure at 69, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 75% and tank 2 at 74%. Reserve pit is empty. 7:30 pm pump running at 10 SPM. Upstream pressure at 71, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 70% and tank 2 at 69%. Reserve pit is empty.

07/25/94 9:00 am pump running at 10 SPM. Upstream pressure at 75, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 65% and tank 2 at 67%. Reserve pit is empty. 7:30 pm pump running at 10 SPM. Upstream pressure at 68, orifice pressure at 0 with a 1/8" plate size. Produced 17.14 BPD water. Water is clear to milky. Propane tank 1 at 64% and tank 2 at 63%. Reserve pit is empty.