

WELL TREATMENT REPORT

Schlumberger
Dowell

DS-494-C PRINTED IN U.S.A.

DATE MAR 11 1992

WELL NAME AND NUMBER <u>Cherry Hill St. 9 S. 12 T8S R9E</u>		LOCATION (LEGAL) <u>5.12 T8S R9E</u>		DOWELL LOCATION <u>2.111 A-1</u>		TREATMENT NUMBER <u>270204</u>	
POOL/FIELD		FORMATION		BOTTOM HOLE TEMPERATURE		AGE OF WELL NEW ☐ REWORK ☐	
COUNTRY/PARISH <u>LA</u>		STATE <u>LA</u>		ALLOWABLE PRESSURE TBG: <u>120</u> CSG: <u>110</u>		PERFORATED INTERVALS TOP TO BOTTOM NO. OF HOLES	
TYPE OF SERVICE ☒ MATRIX TREATMENT ☐ SAND CONTROL ☐ FRACTURING ☐ OTHER		PRIMARY TREATING FLUID <u>20% LHM</u>		CASING SIZE WT DEPTH <u>5 5/8 13 2730</u>		TO TO	
OPERATOR NAME <u>Acadex Inc. P.O. Box</u>				TUBING SIZE WT DEPTH <u>2 7/8 2115</u>		TO TO	
SERVICE INSTRUCTIONS				PACKER TYPE PACKER DEPTH <u>5.10 2115</u>		TO TO	
				TUBING VOLUME ANNULAR VOL <u>12.2 33.4</u>		TO TO	
				OPEN HOLE CASING VOL <u>53 2.7</u>		TO TO	
				DISPLACEMENT <u>149</u>		C. TBG. TUBING JOB DONE DOWN ☐ ☒ CASING ANNULUS BOTH	
FOR CONVERSION PURPOSES 24 BBLs EQUALS 1000 GALLONS						PERF. DIAMETER- IN.	
ARRIVED ON LOCATION: <u>0200 3-11</u>		LEFT LOCATION: <u>1340 3-11</u>				PERFORATED INTERVAL TOTAL- <u>45</u> FT.	

TIME (0001 to 2400)	INJECTION RECORD						PRESSURE		NOTATIONS
	TYPE OF FLUID	RATE BPM	CO ₂ - N ₂ RATE	INCREMENT VOL. BBLs	CUM. VOL. BBLs	PROP. TYPE	CSG.	TBG.	
0200									Pre-Job Safety Meeting
0210									Pressure Test To <u>650</u> psi
0215	2% LHM	1.0					0.11	210	START LHM
0217		2.0						490	Pressure Test
0220				9				690	DRIFT 300
0222				19				746	DRIFT 300
0224				16				772	DRIFT 300
0226		3.0						790	DRIFT 300
0228				22				900	DRIFT 300
0230				29				1100	DRIFT 300
0232				35				1150	DRIFT 300
0234				41				1190	DRIFT 300
0236				48				1230	DRIFT 300
0237	2% LHM	3.0						1250	START FLUID
0239				5				1300	END 125
0241				10				1350	END 125
0243				14.9				13.1	END 125
0245								1240	DRIFT 300
0247								1011	DRIFT 300
0249								910	DRIFT 300
0251								900	DRIFT 300

FLUID <u>3.0</u>		BPM AVERAGE INJECTION RATES NITROGEN CARBON DIOXIDE		TOTAL W/PROP		WATER/ACID BBLs		OIL BBLs		VOLUME FLUID INJECTED NITROGEN CCF		CARBON DIOXIDE TONS			
TREATING PRESSURE SUMMARY MAXIMUM <u>1313</u> FINAL <u>920</u> AVERAGE <u>700</u> IMMEDIATE S.D.P. <u>1240</u> 15 MIN S.I.P. <u>720</u>		TOTAL INJECTED		QUANTITY PROPPANT PLACED		TOTAL ORDERED/DESIGNED		LBS		LBS		LBS			
PRODUCTION PRIOR TO THIS TREATMENT				☐ Test ☐ Stabilized				PAD VOLUME _____ GALS % PAD _____				FRACTURE GRADIENT			
CUSTOMER REPRESENTATIVE <u>Charles T. ...</u>				DS SERVICE SUPERVISOR <u>G. ...</u>				PAGE <u>1</u> OF <u>2</u> PAGES							

Dowell

DS-494-1-B PRINTED IN U.S.A.

DS-494-1-B PRINTED IN U.S.A.

DATE 3-10-00

TREATMENT NUMBER

PAGE 2 OF 2 PAGES

PAGE 2 OF 2 PAGES

[illegible]

Schlumberger	Customer:	Yates Petroleum
	District:	Artesia, NM
	Representative:	Curtis Tolle
	DS Supervisor:	Chris S. deLeon
	Well:	Quincy AMQ State # 9
Job Date: 03-15-2002		

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:09:10:33	0	0.0	-5
03:15:2002:09:10:35	Start Job		
03:15:2002:09:10:35	0	0.0	-5
03:15:2002:09:11:33	2939	0.0	0
03:15:2002:09:11:46	Pressure Test Lines		
03:15:2002:09:11:46	5049	0.0	0
03:15:2002:09:12:33	3493	0.0	0
03:15:2002:09:13:34	133	0.0	0
03:15:2002:09:13:59	Start Pumping Acid		
03:15:2002:09:13:59	119	0.0	0
03:15:2002:09:14:34	224	1.0	0
03:15:2002:09:15:34	284	0.9	0
03:15:2002:09:16:34	339	1.0	0
03:15:2002:09:17:34	462	1.6	0
03:15:2002:09:18:34	568	1.9	0
03:15:2002:09:19:34	632	1.9	0
03:15:2002:09:20:29	Drop Ball Sealers		
03:15:2002:09:20:29	696	1.9	0
03:15:2002:09:20:34	710	1.9	0
03:15:2002:09:21:34	742	1.9	0
03:15:2002:09:22:34	774	1.9	0
03:15:2002:09:23:34	797	2.2	0
03:15:2002:09:24:01	Drop Ball Sealers		
03:15:2002:09:24:01	906	2.3	0
03:15:2002:09:24:34	966	2.9	0
03:15:2002:09:25:34	1007	2.8	0
03:15:2002:09:26:15	Drop Ball Sealers		
03:15:2002:09:26:15	1025	2.8	0
03:15:2002:09:26:35	1067	2.8	0
03:15:2002:09:27:35	1099	2.8	0
03:15:2002:09:28:35	1103	2.8	0
03:15:2002:09:28:54	Drop Ball Sealers		
03:15:2002:09:28:54	1094	2.8	0
03:15:2002:09:29:35	1135	2.8	0
03:15:2002:09:30:35	1122	2.8	0
03:15:2002:09:30:55	Drop Ball Sealers		
03:15:2002:09:30:55	1117	2.8	0
03:15:2002:09:31:35	1135	2.8	0
03:15:2002:09:32:35	1199	2.8	0
03:15:2002:09:32:57	Drop Ball Sealers		
03:15:2002:09:32:57	1163	2.8	0
03:15:2002:09:33:35	1190	2.8	0

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:09:35:27	Drop Ball Sealers		
03:15:2002:09:35:27	1263	2.8	0
03:15:2002:09:35:35	1268	2.8	0
03:15:2002:09:36:36	1245	2.9	0
03:15:2002:09:37:10	End Acid		
03:15:2002:09:37:10	1245	2.8	0
03:15:2002:09:37:12	Start Displacement		
03:15:2002:09:37:12	1263	2.8	0
03:15:2002:09:37:36	1259	2.8	0
03:15:2002:09:38:36	1268	2.8	0
03:15:2002:09:39:36	1277	2.8	0
03:15:2002:09:40:36	1309	2.8	0
03:15:2002:09:41:36	1314	2.8	0
03:15:2002:09:42:36	1213	2.3	-5
03:15:2002:09:42:41	End Displacement		
03:15:2002:09:42:41	1204	0.0	-5
03:15:2002:09:43:36	1144	0.0	-5
03:15:2002:09:44:36	1108	0.0	-5
03:15:2002:09:45:36	1080	0.0	-5
03:15:2002:09:46:36	1053	0.0	-5
03:15:2002:09:47:36	1035	0.0	-5
03:15:2002:09:48:37	1016	0.0	-5
03:15:2002:09:49:37	998	0.0	-5
03:15:2002:09:50:37	984	0.0	-5
03:15:2002:09:51:37	975	0.0	0
03:15:2002:09:52:37	961	0.0	-5
03:15:2002:09:53:37	952	0.0	-5
03:15:2002:09:54:37	943	0.0	-5
03:15:2002:09:55:37	938	0.0	-5
03:15:2002:09:56:37	929	0.0	-5
03:15:2002:09:57:37	920	0.0	-5
03:15:2002:09:58:37	916	0.0	-5
03:15:2002:10:16:50	801	0.0	-5
03:15:2002:10:17:29	Start Step Rate/PSI Test		
03:15:2002:10:17:29	769	0.3	-5
03:15:2002:10:17:50	806	0.3	-5
03:15:2002:10:18:50	829	0.3	-5
03:15:2002:10:19:50	829	0.3	-5
03:15:2002:10:20:50	833	0.3	-5
03:15:2002:10:21:50	824	0.3	-5
03:15:2002:10:22:10	5 Min Reading		
03:15:2002:10:22:10	815	0.3	-5
03:15:2002:10:22:51	829	0.3	-5
03:15:2002:10:23:51	824	0.3	-5
03:15:2002:10:24:51	824	0.3	-5
03:15:2002:10:25:51	824	0.3	-5
03:15:2002:10:26:51	801	0.3	-5
03:15:2002:10:27:16	10 Min Reading		

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:10:27:16	824	0.3	-5
03:15:2002:10:27:51	801	0.3	-5
03:15:2002:10:28:51	819	0.3	-5
03:15:2002:10:29:51	819	0.3	-5
03:15:2002:10:30:51	806	0.3	-5
03:15:2002:10:31:51	815	0.3	-5
03:15:2002:10:32:09	15 Min Reading		
03:15:2002:10:32:09	815	0.3	-5
03:15:2002:10:32:10	Increase Rate		
03:15:2002:10:32:10	787	0.3	-5
03:15:2002:10:32:51	815	0.4	-5
03:15:2002:10:33:51	815	0.4	-5
03:15:2002:10:34:52	810	0.4	-5
03:15:2002:10:35:52	819	0.4	-5
03:15:2002:10:36:52	815	0.4	-5
03:15:2002:10:37:05	5 Min Reading		
03:15:2002:10:37:05	810	0.4	-5
03:15:2002:10:37:52	810	0.4	-5
03:15:2002:10:38:52	806	0.4	-5
03:15:2002:10:39:52	801	0.4	-5
03:15:2002:10:40:52	797	0.4	-5
03:15:2002:10:41:52	797	0.4	-5
03:15:2002:10:42:09	10 Min Reading		
03:15:2002:10:42:09	797	0.4	-5
03:15:2002:10:42:52	810	0.4	-5
03:15:2002:10:43:52	801	0.4	-5
03:15:2002:10:44:52	815	0.4	-5
03:15:2002:10:45:53	801	0.4	-5
03:15:2002:10:46:53	810	0.4	-5
03:15:2002:10:47:15	15 Min Reading		
03:15:2002:10:47:15	806	0.4	-5
03:15:2002:10:47:17	Increase Rate		
03:15:2002:10:47:17	792	0.4	-5
03:15:2002:10:47:53	810	0.6	-5
03:15:2002:10:48:53	838	0.6	-5
03:15:2002:10:49:53	838	0.7	-5
03:15:2002:10:50:53	833	0.7	-5
03:15:2002:10:51:53	838	0.6	-5
03:15:2002:10:52:13	5 Min Reading		
03:15:2002:10:52:13	829	0.7	-5
03:15:2002:10:52:53	833	0.6	-5
03:15:2002:10:53:53	833	0.7	-5
03:15:2002:10:54:53	842	0.7	-5
03:15:2002:10:55:53	838	0.6	-5
03:15:2002:10:56:53	847	0.7	-5
03:15:2002:10:57:07	10 Min Reading		
03:15:2002:10:57:07	851	0.7	-5
03:15:2002:10:57:54	847	0.6	-5

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:10:58:54	847	0.7	-5
03:15:2002:10:59:54	842	0.6	-5
03:15:2002:11:00:54	856	0.7	-5
03:15:2002:11:01:54	847	0.6	-5
03:15:2002:11:02:07	15 Min Reading		
03:15:2002:11:02:07	851	0.6	-5
03:15:2002:11:02:08	Increase Rate		
03:15:2002:11:02:08	847	0.6	-5
03:15:2002:11:02:54	870	1.0	-5
03:15:2002:11:03:54	893	1.0	-5
03:15:2002:11:04:54	883	1.0	-5
03:15:2002:11:05:54	902	1.0	-5
03:15:2002:11:06:54	906	1.0	-5
03:15:2002:11:07:08	5 Min Reading		
03:15:2002:11:07:08	906	1.0	-5
03:15:2002:11:07:54	893	1.0	-5
03:15:2002:11:08:55	911	1.0	-5
03:15:2002:11:09:55	911	1.0	-5
03:15:2002:11:10:55	920	1.0	-5
03:15:2002:11:11:55	925	1.0	-5
03:15:2002:11:12:06	10 Min Reading		
03:15:2002:11:12:06	916	1.0	-5
03:15:2002:11:12:55	938	1.0	-5
03:15:2002:11:13:55	929	1.0	-5
03:15:2002:11:14:55	929	1.0	-5
03:15:2002:11:15:55	934	1.0	-5
03:15:2002:11:16:55	938	1.0	-5
03:15:2002:11:17:05	15 Min Reading		
03:15:2002:11:17:05	938	1.0	-5
03:15:2002:11:17:06	Increase Rate		
03:15:2002:11:17:06	929	1.0	-5
03:15:2002:11:17:55	1048	1.2	-5
03:15:2002:11:18:55	980	1.2	-5
03:15:2002:11:19:55	1076	1.2	-9
03:15:2002:11:20:56	934	1.2	-9
03:15:2002:11:21:56	934	1.2	-9
03:15:2002:11:22:10	5 Min Reading		
03:15:2002:11:22:10	861	1.3	-9
03:15:2002:11:22:56	870	1.2	-9
03:15:2002:11:23:56	970	1.2	-9
03:15:2002:11:24:56	1117	1.3	-9
03:15:2002:11:25:56	957	1.2	-9
03:15:2002:11:26:56	1085	1.2	-5
03:15:2002:11:27:08	10 Min Reading		
03:15:2002:11:27:08	1007	1.2	-5
03:15:2002:11:27:56	1103	1.2	-5
03:15:2002:11:28:56	948	1.2	-5
03:15:2002:11:29:56	1067	1.2	-5

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:11:30:56	1007	1.2	-5
03:15:2002:11:31:56	975	1.2	-5
03:15:2002:11:32:08	15 Min Reading		
03:15:2002:11:32:08	1002	1.2	-5
03:15:2002:11:32:09	Increase Rate		
03:15:2002:11:32:09	1062	1.2	-5
03:15:2002:11:32:56	1057	1.4	-5
03:15:2002:11:33:57	1044	1.4	-5
03:15:2002:11:34:57	1039	1.5	-5
03:15:2002:11:35:57	1035	1.4	-5
03:15:2002:11:36:57	1048	1.5	-5
03:15:2002:11:37:11	5 Min Reading		
03:15:2002:11:37:11	1057	1.4	-5
03:15:2002:11:37:57	1062	1.5	-5
03:15:2002:11:38:57	1067	1.4	-5
03:15:2002:11:39:57	1039	1.4	-5
03:15:2002:11:40:57	1057	1.4	-5
03:15:2002:11:41:57	1080	1.5	-5
03:15:2002:11:42:08	10 Min Reading		
03:15:2002:11:42:08	1071	1.5	-5
03:15:2002:11:42:57	1062	1.5	-5
03:15:2002:11:43:57	1080	1.5	-5
03:15:2002:11:44:58	1039	1.4	-5
03:15:2002:11:45:58	1053	1.4	-5
03:15:2002:11:46:58	1067	1.4	-5
03:15:2002:11:47:09	15 Min Reading		
03:15:2002:11:47:09	1080	1.4	-5
03:15:2002:11:47:10	Increase Rate		
03:15:2002:11:47:10	1080	1.4	-5
03:15:2002:11:47:58	1099	1.7	-5
03:15:2002:11:48:58	1099	1.8	-5
03:15:2002:11:49:58	1117	1.7	-5
03:15:2002:11:50:58	1126	1.7	-5
03:15:2002:11:51:58	1122	1.7	-5
03:15:2002:11:52:07	5 Min Reading		
03:15:2002:11:52:07	1158	1.7	-5
03:15:2002:11:52:58	1126	1.7	-5
03:15:2002:11:53:58	1163	1.7	-5
03:15:2002:11:54:58	1154	1.7	-5
03:15:2002:11:55:58	1163	1.7	-5
03:15:2002:11:56:59	1163	1.7	-5
03:15:2002:11:57:08	10 Min Reading		
03:15:2002:11:57:08	1158	1.7	-5
03:15:2002:11:57:59	1163	1.7	-5
03:15:2002:11:58:59	1158	1.7	-5
03:15:2002:11:59:59	1163	1.7	-5
03:15:2002:12:00:59	1176	1.7	-5
03:15:2002:12:01:59	1186	1.7	-5

AcqTime mm:dd:yyyy:hh:mm:ss	Treating Pressure psi	Flow Rate bbl/min	CMT AN PRES psi
03:15:2002:12:02:07	15 Min Reading		
03:15:2002:12:02:07	1176	1.7	-5
03:15:2002:12:02:08	Increase Rate		
03:15:2002:12:02:08	1190	1.7	-5
03:15:2002:12:02:59	1199	2.0	-5
03:15:2002:12:03:59	1222	1.9	-5
03:15:2002:12:04:59	1218	1.9	-5
03:15:2002:12:05:59	1218	1.9	-5
03:15:2002:12:07:00	1241	2.0	-5
03:15:2002:12:07:07	5 Min Reading		
03:15:2002:12:07:07	1236	2.0	-5
03:15:2002:12:08:00	1231	1.9	-5
03:15:2002:12:09:00	1245	1.9	-5
03:15:2002:12:10:00	1245	2.0	-5
03:15:2002:12:11:00	1259	2.0	-5
03:15:2002:12:12:00	1259	1.9	-5
03:15:2002:12:12:09	10 Min Reading		
03:15:2002:12:12:09	1263	2.0	-5
03:15:2002:12:13:00	1250	2.0	-5
03:15:2002:12:14:00	1263	2.0	-5
03:15:2002:12:15:00	1254	1.9	-5
03:15:2002:12:16:00	1263	1.9	-5
03:15:2002:12:17:00	1268	1.9	-5
03:15:2002:12:17:06	15 Min Reading		
03:15:2002:12:17:06	1263	1.9	-5
03:15:2002:12:17:15	End Step Rate Test		
03:15:2002:12:17:15	1208	0.3	-5
03:15:2002:12:18:00	1167	0.0	-5

Well	Quincy AMQ State # 9	Client	Yates Petroleum
Field		SIR No.	2202040601
Engineer	Chris S. deLeon	Job Type	Acid Ballout Step Rate Test
Country	United States	Job Date	03-15-2002

Time	Pressure	Rate	Density	Messages
03/15/2002 09:10:37				
09:10:33				Start Job
				Pressure Test Lines
				Start Pumping Acid
09:15:57				
				Drop Ball Sealers
09:21:21				Drop Ball Sealers
				Drop Ball Sealers
09:26:45				Drop Ball Sealers
				Drop Ball Sealers
09:32:09				Drop Ball Sealers
				Drop Ball Sealers
09:37:33				End Acid Start Displacement
09:42:57				End Displacement
09:48:21				
09:53:45				
09:59:17				
hh:mm:ss	0 833 1667 2500 3333 4167 5000	0.0 1.7 3.3 5.0 6.7 8.3 10.0	5 8 12 15 18 22 25	
03/15/2002 09:59:17	PSI	B/M	LB/G	

Well	Quincy AMQ State # 9	Client	Yates Petroleum
Field		SIR No.	2202040601
Engineer	Chris S. deLeon	Job Type	Acid Ballout Step Rate Test
Country	United States	Job Date	03-15-2002

Time	Pressure	Rate	Density	Messages
03/15/2002 09:10:33				
10:16:31				Start Step Rate/PSI Test
10:23:18				5 Min Reading
				10 Min Reading
10:30:05				15 Min Reading Increase Rate
10:36:52				5 Min Reading
				10 Min Reading
10:43:39				15 Min Reading Increase Rate
10:50:26				5 Min Reading
				10 Min Reading
10:57:13				15 Min Reading Increase Rate
11:04:00				5 Min Reading
				10 Min Reading
11:10:47				15 Min Reading Increase Rate
11:17:35				5 Min Reading
hh:mm:ss	PSI	B/M	LB/G	

Well	Quincy AMQ State # 9	Client	Yates Petroleum
Field		SIR No.	2202040601
Engineer	Chris S. deLeon	Job Type	Acid Ballout Step Rate Test
Country	United States	Job Date	03-15-2002

Time	Pressure	Rate	Density	Messages
03/15/2002 09:10:33				
11:15:21				15 Min Reading Increase Rate
11:22:24				5 Min Reading
11:29:27				10 Min Reading
11:36:30				15 Min Reading Increase Rate
11:43:33				5 Min Reading
11:50:36				10 Min Reading
11:57:39				15 Min Reading Increase Rate
12:04:42				5 Min Reading
12:11:45				10 Min Reading
12:18:52				15 Min Reading End Step Rate Test Stopped Acquisition
hh:mm:ss	0 250 500 750 1000 1250 1500	0.0 1.7 3.3 5.0 6.7 8.3 10.0	5 8 12 15 18 22 25	
03/15/2002 12:18:52	PSI	B/M	LB/G	