



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

WAS NOV 16 '05

DEP USE ONLY	
Site Id	Primary Facility Id
Client Id	Sub-facility Id

WELL RECORD AND COMPLETION REPORT

Well Operator Guardian Exploration, LLC		DEP ID# 237396	Well API # (Permit / Reg) 37-105-21122-00	Project Number	Acres
Address PO Box 225			Well Farm Name REYNOLDS	Well # RX103	Serial #
City Hunt	State TX	Zip Code 78024	County Potter	Municipality Pleasant Valley	
Phone 830-367-6022	Fax 830-367-6066	USGS 7.5 min. quadrangle map Shinglehouse			

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on back (page 2)

Well Type	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Combination Oil & Gas	<input type="checkbox"/> Injection	<input type="checkbox"/> Storage	<input type="checkbox"/> Disposal
Drilling Method	<input checked="" type="checkbox"/> Rotary - Air	<input type="checkbox"/> Rotary - Mud	<input type="checkbox"/> Cable Tool			
Date Drilling Started 6-15-05	Date Drilling Completed 6-22-05	Surface Elevation 2400 ft.	Total Depth - Driller 2300 ft.	Total Depth - Logger 2308 ft.		

Casing and Tubing					Cement returned on surface casing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
					Cement returned on coal protective casing? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A				
Hole Size	Pipe Size	Wt.	Thread / Weld	Amount in Well (ft)	Material Behind Pipe Type and Amount	Packer / Hardware / Centralizers Type	Size	Depth	Date Run
12 1/4	9 5/8	36	THD.	22.5	DRILL CUTTINGS				6-15-05
8 3/4	7	17	THD.	515	85 SKS. CEMENT (CLASS A)	Centralizer	8 3/4 X 7	483,387,291	6-15-05
6 1/4	2 3/8	4.6	THD.	2150	NONE				6-15-05

COMPLETION REPORT

Perforation Record				Stimulation Record					
Date	Interval Perforated From To		Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection
				SEE					
				FRAC					
				REPORTS					
Natural Open Flow	22 MCF/DAY			Natural Rock Pressure	280 PSI		Hours 1 Days		
After Treatment Open Flow	N/A			After Treatment Rock Pressure	590 PSI		Hours 1 Days		

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NORTHWEST REGIONAL OFFICE

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NORTHWEST REGIONAL OFFICE

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

Name Superior Well Services	Name Appalachian Well Services, Inc.	Name
Address P.O. Box 482	Address P.O. Box 636	Address
City - State - Zip Bradford, PA 16701	City - State - Zip Indiana, PA 15701	City - State - Zip
Phone 814-368-6228	Phone 724-354-4400	Phone

LOG OF FORMATIONS

Well API#: 37-105-21122-00

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
SEE ATTACHED DRILLERS LOG						

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Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:		DEP USE ONLY	
 Title: President		Reviewed by: <i>David Ford - Oil & Gas Inspector</i> Date: 11-23-05 Comments:	
Date: 11/7/05			



GUARDIAN EXPLORATION, LLC
DRILLERS LOG
WELL #RX-103

SPUD DATE: 6/15/05
COMPLETION DATE: 6/22/05
SIZE OF CONDUCTOR: 9 5/8"
LENGTH OF CONDUCTOR: 22.5'

CASING SIZE: 7"
AMOUNT OF CASING: 515'
CEMENT RETURNS: 0 BBLs.

0-4	ROCKS & DIRT
4-167	SHALE
167-358	RED ROCK
358-369	SANDSTONE (FRESH WATER 1 GPM)
369-398	RED ROCK
398-406	SANDSTONE (FRESH WATER 5 GPM)
406-501	RED ROCK
501-1224	SHALE
1224-1235	SAND
1235-1455	SHALE
1455-1462	SAND
1462-1505	SHALE
1505-1514	SAND
1514-1640	SHALE
1640-1666	SAND
1666-1767	SHALE
1767-1775	SAND
1775-1807	SHALE
1807-1818	SAND (GOOD SMELL)
1818-1874	SHALE
1874-1888	SAND (GOOD SMELL)
1888-1987	SHALE
1987-1994	SAND
1994-2300	SHALE
2099-2106	SAND
2106-2300	SHALE
2300	T.D.

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ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

Customer : GUARDIAN EX PLORATION

Lease : R X #103

Invoice	: 3139B	Stage	: 1 of 19
Date	: Wed 10/05/2005	Start Time	: 05:15:38 (05:15 AM)
Customer	: GUARDIAN EX PLORATION	Lease	: R X #103
State	: PENNSYLVANIA	County	: POTTER COUNTY
Engineer	: DOUG SMITH	Comments	:
Primary	: 3-1/2; DP; D; 13.30# - USED	Secondary	: NONE -
Formation	: WARREN 2ND	Job Type	: OPEN HOLE WATER FRAC
Treat Vol	: 4500 GAL	Flush Vol	: 1000 GAL
Top Int	: 1315 FEET	Bottom Int	: 60 SKS
Notch/Perf	: 1 NOTCH EACH	Comments	:

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 1413 *** AVERAGE RATE: 18.0 *** AVERAGE HHP: 623 *** PTS USED: 10
 CALCULATED SHUT IN: ISIP *** 743
 BROKE FORMATION: Brk Form *** 1915 BACK TO: 1876

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhhp
06:18:16	PAUSED	-49	0.0	0	0	0
06:18:51	Brk Form	1758	9.6	11	11	490
06:19:04	SS 1/2	1806	17.0	148	148	757
06:19:06	ZEROSUB	1801	17.3	0	173	756
06:19:44	OnBottom	1583	20.5	529	707	794
06:19:58	SS 1	1558	20.5	732	909	783
06:20:48	SS 1.5	1519	20.4	1442	1619	759
06:21:36	SS 2	1446	20.4	2131	2308	725
06:21:42	Chk R&P	1445	20.4	2216	2393	723
06:22:46	Chk R&P	1424	20.3	3123	3300	706
06:23:50	FS	1534	20.2	4025	4202	758
06:24:24	ZEROSUB	1576	20.3	0	4687	784
06:24:27	SF	1583	20.3	26	4717	787
06:25:36	FF	229	0.0	1017	5708	140
06:25:52	ISIP	786	0.0	1017	5708	0

POST JOB COMMENTS

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ENVIRONMENTAL PROTECTION
 NORTHWEST REGIONAL OFFICE

Invoice	:3139B	Stage	:2 of 19
Date	:Wed 10/05/2005	Start Time	:06:29:19 (06:29 AM)
Customer	:GUARDIAN EX PLORATION	Lease	:R X #103
State	:PENNSYLVANIA	County	:POTTER COUNTY
Engineer	:DOUG SMITH	Comments	:
Primary	:3-1/2;DP; D;13.30# - USED	Secondary	:NONE -
Formation	:WARREN 2ND	Job Type	:OPEN HOLE WATER FRAC
Treat Vol	:4000 GAL	Flush Vol	:1000 GAL
Top Int	:1394.5 FEET	Bottom Int	:50 SKS
Notch/Perf	:1 NOTCH EACH	Comments	:12 # CW-2K 1 GAL. OW-3

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 1500 *** AVERAGE RATE: 18.8 *** AVERAGE HHP: 692 *** PTS USED: 13
 CALCULATED SHUT IN: ISIP *** 773
 BROKE FORMATION: Brk Form *** 2681 BACK TO: 1921

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhhp
06:52:04	PAUSED	-49	0.0	0	0	0
06:52:42	Brk Form	1641	9.1	6	6	346
06:53:02	SS 1/2	2120	19.4	199	199	998
06:53:04	ZEROSUB	2150	19.9	8	224	1039
06:53:40	OnBottom	1991	20.3	516	732	997
06:53:42	OnBottom	1924	20.4	546	761	965
06:53:54	SS 1	1769	20.3	717	933	879
06:54:42	SS 1.5	1564	20.6	1403	1619	790
06:54:44	SS 1.5	1561	20.6	1434	1650	788
06:55:32	SS 2	1472	20.5	2123	2338	742
06:55:40	Chk R&P	1457	20.5	2234	2450	730
06:56:44	Chk R&P	1406	20.4	3150	3366	704
06:57:10	FS	1400	20.5	3524	3739	706
06:57:12	FS	1401	20.5	3550	3765	706
06:57:42	ZEROSUB	1397	20.5	3985	4201	702
06:57:44	ZEROSUB	1399	20.5	9	4226	703
06:57:46	SF	1399	20.6	39	4257	705
06:58:56	FF	39	0.0	1041	5259	103
06:59:10	ISIP	815	0.0	1041	5259	0

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ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

Invoice : 3139B	Stage : 3 of 19
Date : Wed 10/05/2005	Start Time : 07:01:27 (07:01 AM)
Customer : GUARDIAN EX PLORATION	Lease : R X #103
State : PENNSYLVANIA	County : POTTER COUNTY
Engineer : DOUG SMITH	Comments :
Primary : 3-1/2; DP; D; 13.30# - USED	Secondary : NONE -
Formation : BRADFORD 1ST	Job Type : OPEN HOLE WATER FRAC
Treat Vol : 4500 GAL	Flush Vol : 1000 GAL
Top Int : 1461 FEET	Bottom Int : 60 SKS
Notch/Perf : 1 NOTCH EACH	Comments : 13 # CW-2K 1 GAL. OW-3

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 2077 *** AVERAGE RATE: 16.2 *** AVERAGE HHP: 823 *** PTS USED: 11
 CALCULATED SHUT IN: ISIP *** 927
 BROKE FORMATION: Brk Form *** 2625 BACK TO: 2600

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhhp
07:30:29	PAUSED	-39	0.0	0	0	0
07:30:53	PAUSED	83	0.0	0	0	0
07:31:21	Brk Form	1875	0.0	0	0	0
07:31:43	SS 1/2	2617	17.6	191	191	1131
07:31:47	SS 1/2	2595	17.7	243	243	1126
07:31:49	ZEROSUB	2586	17.6	266	266	1121
07:32:35	OnBottom	2741	17.0	551	820	1142
07:32:49	SS 1	2410	18.0	725	994	1061
07:33:43	SS 1.5	2048	20.2	1423	1692	1013
07:34:33	SS 2	1832	20.1	2128	2397	904
07:34:39	Chk R&P	1822	20.1	2213	2482	896
07:35:47	Chk R&P	1995	20.0	3168	3437	977
07:36:51	FS	2236	17.0	4028	4297	913
07:37:53	ZEROSUB	1560	10.2	6	4785	390
07:37:55	SF	1561	10.1	18	4797	385
07:40:15	FF	991	0.0	1007	5786	0
07:40:21	ISIP	964	0.0	1007	5786	0

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**ENVIRONMENTAL PROTECTION
 NORTHWEST REGIONAL OFFICE**

Invoice	:3139B	Stage	:4 of 19
Date	:Wed 10/05/2005	Start Time	:07:42:58 (07:42 AM)
Customer	:GUARDIAN EX PLORATION	Lease	:R X #103
State	:PENNSYLVANIA	County	:POTTER COUNTY
Engineer	:DOUG SMITH	Comments	:
Primary	: 3-1/2;DP; D;13.30# - USED	Secondary	:NONE -
Formation	:BRADFORD 1ST	Job Type	:OPEN HOLE WATER FRAC
Treat Vol	:6500 GAL	Flush Vol	:1000 GAL
Top Int	:1502 FEET	Bottom Int	:100 SKS
Notch/Perf	:1 NOTCH EACH	Comments	:19 # CW-2K 1 GAL. OW-3

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 2040 *** AVERAGE RATE: 16.9 *** AVERAGE HHP: 843 *** PTS USED: 13

CALCULATED SHUT IN: ISIP *** 928

BROKE FORMATION: Brk Form *** 3122 BACK TO: 2637

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhhp
08:58:35	PAUSED	-49	0.0	7	7	-6
08:58:51	Brk Form	2251	0.0	7	7	0
08:59:09	SS 1/2	2693	16.3	142	142	1074
08:59:13	ZEROSUB	2719	15.9	0	186	1056
09:02:25	SS 1/2	2882	14.0	1581	1767	993
09:02:28	ZEROSUB	2865	14.1	3	1788	992
09:03:41	SS 1	2764	16.8	745	2530	1139
09:04:51	SS 1.5	2368	17.8	1587	3372	1035
09:05:35	SS 2	2215	18.2	2139	3924	992
09:05:41	Chk R&P	2174	18.1	2215	4000	966
09:07:01	Chk R&P	2015	18.5	3240	5025	913
09:08:17	Chk R&P	1916	20.0	4260	6044	938
09:09:19	Chk R&P	1852	19.5	5129	6914	889
09:09:21	Chk R&P	1848	19.6	5157	6942	888
09:10:22	FS	1795	20.1	6000	7785	885
09:10:57	ZEROSUB	1797	20.1	0	8286	884
09:10:59	SF	1798	20.1	30	8315	886
09:12:15	FF	200	0.1	1110	9396	444
09:12:23	ISIP	1082	0.0	1110	9396	0

POST-JOB COMMENTS

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ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

2003 Accudat 3.9x

1 of 1

Invoice :3139B

Invoice	:3139B	Stage	:5 of 19
Date	:Wed 10/05/2005	Start Time	:09:14:52 (09:14 AM)
Customer	:GUARDIAN EX PLORATION	Lease	:R X #103
State	:PENNSYLVANIA	County	:POTTER COUNTY
Engineer	:DOUG SMITH	Comments	:
Primary	: 3-1/2;DP; D;13.30# - USED	Secondary	:NONE -
Formation	:KINZUA	Job Type	:OPEN HOLE WATER FRAC
Treat Vol	:5000 GAL	Flush Vol	:1100 GAL
Top Int	:1550.5 FEET	Bottom Int	:70 SKS
Notch/Perf	:1 NOTCH EACH	Comments	:19 # CW-2K 1 GAL. OW-3

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 1798 *** AVERAGE RATE: 18.1 *** AVERAGE HHP: 797 *** PTS USED: 12
 CALCULATED SHUT IN: ISIP *** 1068
 BROKE FORMATION: Brk Form *** 2117 BACK TO: 2080

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhbp
09:30:07	PAUSED	-49	5.4	1	1	-0
09:30:28	Brk Form	1624	0.0	5	5	0
09:30:43	SS 1/2	1969	15.0	117	117	712
09:30:51	ZEROSUB	2030	17.9	7	211	882
09:31:31	OnBottom	1955	20.3	568	772	976
09:31:33	OnBottom	1949	20.3	594	798	973
09:31:42	SS 1	1907	20.2	713	917	943
09:32:30	SS 1.5	1758	20.2	1394	1598	871
09:33:21	SS 2	1729	20.3	2129	2333	858
09:33:25	Chk R&P	1730	20.2	2185	2388	855
09:34:34	Chk R&P	1701	20.1	3147	3351	838
09:35:43	Chk R&P	1711	20.1	4135	4339	840
09:36:13	FS	1725	20.1	4557	4761	852
09:36:43	ZEROSUB	1729	20.3	0	5185	858
09:36:46	SF	1729	20.3	21	5215	860
09:38:03	FF	1707	0.0	1112	6305	0
09:38:12	ISIP	942	0.0	1112	6305	0

POST JOB COMMENTS

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ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

Customer : GUARDIAN EX PLORATION

Lease : R X #103

Invoice	:3139B	Stage	:6 of 19
Date	:Wed 10/05/2005	Start Time	:09:40:44 (09:40 AM)
Customer	:GUARDIAN EX PLORATION	Lease	:R X #103
State	:PENNSYLVANIA	County	:POTTER COUNTY
Engineer	:DOUG SMITH	Comments	:
Primary	: 3-1/2;DP; D;13.30# - USED	Secondary	:NONE -
Formation	:CHIPMUNK SAND	Job Type	:OPEN HOLE WATER FRAC
Treat Vol	:6100 GAL	Flush Vol	:1100 GAL
Top Int	:1656 FEET	Bottom Int	:90 SKS
Notch/Perf	:1 NOTCH EACH	Comments	:19 # CW-2K 1 GAL. OW-3

SPECIAL CALCULATIONS

AVERAGE PRESSURE: 2031 *** AVERAGE RATE: 18.7 *** AVERAGE HHP: 929 *** PTS USED: 13
 CALCULATED SHUT IN: ISIP *** 1078
 BROKE FORMATION: Brk Form *** 2847 BACK TO: 2689

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRPWRhhp
10:16:37	PAUSED	-44	0.0	0	0	0
10:16:57	Brk Form	2486	0.9	5	5	53
10:17:19	SS 1/2	2628	14.7	176	176	950
10:17:21	ZEROSUB	2625	14.7	12	198	947
10:18:13	OnBottom	2592	16.6	616	801	1055
10:18:15	OnBottom	2615	16.5	640	826	1061
10:18:21	SS 1	2606	16.7	710	896	1067
10:19:19	SS 1.5	2294	16.8	1390	1575	945
10:20:13	SS 2	1914	20.1	2096	2281	944
10:20:19	Chk R&P	1887	20.1	2180	2365	930
10:21:31	Chk R&P	1785	20.2	3197	3382	884
10:22:39	Chk R&P	1757	20.2	4159	4344	868
10:23:49	Chk R&P	1741	20.2	5146	5331	858
10:24:25	FS	1738	20.3	5654	5839	864
10:25:03	ZEROSUB	1735	20.2	6193	6378	859
10:25:05	SF	1739	20.2	21	6408	863
10:26:29	FF	1104	20.0	1213	7600	873
10:26:39	ISIP	1120	0.0	1213	7600	0

POST JOB COMMENTS

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ENVIRONMENTAL PROTECTION
 NORTHWEST REGIONAL OFFICE

Customer : GUARDIAN EX PLORATION

Lease : R X #103

Invoice	:3139B	Stage	:7 of 19
Date	:Wed 10/05/2005	Start Time	:10:28:16 (10:28 AM)
Customer	:GUARDIAN EX PLORATION	Lease	:R X #103
State	:PENNSYLVANIA	County	:POTTER COUNTY
Engineer	:DOUG SMITH	Comments	:
Primary	: 3-1/2;DP; D;13.30# - USED	Secondary	:NONE -
Formation	:CHIPMUNK SAND	Job Type	:OPEN HOLE WATER FRAC
Treat Vol	:7500 GAL	Flush Vol	:1200 GAL
Top Int	:1660.5 FEET	Bottom Int	:120 SKS
Notch/Perf	:1 NOTCH EACH	Comments	:22 # CW-2K 1 GAL. OW-3

LOGGED DATA

	Comment	CASEpsi	SLRRYbpm	s#SLRRYga	T#SLRRYga	HRFWRhbp
10:40:03	PAUSED	405	0.0	0	0	0

POST JOB COMMENTS

Packer Jumped
Packer Would Not Set
Tripped Pipe

END OF REPORT

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**ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE**

JOB LOG P91



INVOICE NO. 3769

DATE 10/10/05

CUSTOMER Guardian Exploration

WELL Reynolds RX103

CSG. 3 1/2

37-105-21122-00

STAGE 1	STAGE 2	STAGE 3 A	STAGE 3-B	STAGE 4	STAGE 5
DEPTH 1659'	DEPTH 1663'	DEPTH 1667'	DEPTH 1663-67'	DEPTH 1671'	DEPTH 1773'
RATE 16.5	RATE 17.5	RATE 17	RATE 17.5	RATE 17.5	RATE 18
PRESSURE 3225'	PRESSURE 2170'	PRESSURE 2700	PRESSURE 1990	PRESSURE 2164	PRESSURE 1870
HHP	HHP	HHP	HHP	HHP	HHP
SAND 4	SAND 80	SAND 1	SAND 80	SAND 80	SAND 80
FLUID 1540	FLUID 6494	FLUID 466	FLUID 6219	FLUID 6727	FLUID 6365
ISDP 1200	ISDP 1130	ISDP 200	ISDP 1200	ISDP 1120	ISDP 1130

TIME	RATE (BPM)	VOLUME (GAL) (BBL)	PRESSURE (PSI)		DESCRIPTION OF STAGE OR EVENT
			TUBING	CASING	
5:58					Safety Meeting
6:02					Load Hole + Wash
6:51	16.5		2150		Breakdown + Est Rate Stage 1 / 1659'
6:52	16.5	716	2950		1/2"
6:54	6	1540	2500		Flush (Start 10# gel / 1000) (4)
6:54	5-10	1610	3450		Shutdown (1/2 K-Mate)
7:14	17		2000		Breakdown + Est. Rate Stage 2 / 1663'
7:15	17	497	2400		1/2"
7:17	17.5	1548	2750		1" (2# gel) (80)
7:18	17.5	2595	2150		1 1/2"
7:21	17.5	4690	2000		2"
7:24	17.5	6494	1950		Flush
7:24	17.5	7287	1950		Shutdown (ISDP 1130)
7:37	17		2450		Breakdown + Est Rate Stage 3 / 1667'
7:38	17	258	2700		1/2" (1)
7:39	17	466	2700		Shutdown (ISDP 200)
RECEIVED					
7:52	17.5		2050		Est Rate Stage 3 / 1663'-1667'
7:53	17.5	266	2050		1/2"
7:54	17.5	1367	2050		1" ENVIRONMENTAL PROTECTION NORTHWEST REGIONAL (80)
7:56	17.5	2415	2000		1 1/2" (80)
7:58	17.5	4451	1950		2"
8:01	17.5	6219	1900		Flush
8:02	17.5	7171	1900		Shutdown (ISDP 1200)

TIME	RATE (BPM)	VOLUME (GAL) (BBL)	PRESSURE (PSI)		DESCRIPTION OF STAGE OR EVENT
			TUBING	CASING	
8:21	17	0		2550	Breakdown & Est. Rate
8:22	17	513		2550	1/2"
8:23	17	1741		2300	1"
8:25	17.5	2954		2100	1 1/2"
8:28	17.5	4992		1970	2"
8:30	18	6727		1900	Flush
8:31	18	7658		1900	Shutdown (ISDP 1120)
9:14	17.5	0		2300	Breakdown & Est. Rate
9:15	17.5	378		2250	1/2"
9:17	17.5	1554		2000	1"
9:18	18	2590		1750	1 1/2"
9:21	18	4603		1650	2"
9:23	18	6365		1700	Flush
9:24	18	7364		1700	Shutdown (ISDP 1200-1130)
9:47	17	0		2350	Breakdown & Est. Rate
9:47	17	259		2350	1/2"
9:49	17	1272		2450	1"
9:50	17.5	2344		2150	1 1/2"
9:52	17.5	3394		2050	2"
9:54	17.5	4917		1950	Flush
9:55	17.5	5873		2000	Shutdown (ISDP 1120)
10:36	16.5	0	(circled) 1700 PSI	3250	Breakdown & Est. Rate
10:38	16.5	511		3150	1/2"
10:40	17.5	2031		2150	1"
10:42	17.5	3582		1900	1 1/2"
10:45	17.5	5583		1700	2"
10:48	17.5	7547		1900	Flush
10:49	18	8531		1850	Shutdown (ISDP 1170)
NOV 09 2005					
11:10	16.5	0		3250	Breakdown & Est. Rate
11:11	16.5	2		3200	1/2"
11:14	17.5	2337		2050	1"
11:17	17.5	4414		1900	1 1/2"
11:20	17.5	6491		1850	2"
11:23	17.5	8532		1850	Flush
11:24	17.5	9589		1900	Shutdown (ISDP 1250)

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ENVIRONMENTAL PROTECTION
SOUTHWEST REGIONAL OFFICE

(90) (1000 gallons at 10 # gal)
Reminder at 3 # gal / 100

(80)

(80)

(60)

(100)

JOB LOG Pg 3



INVOICE NO. 3769

DATE 10/10/05

CUSTOMER Guardian Exploration WELL (Reynolds) PX 103 CSG. 3 1/2"

37-105-21122-00

STAGE 06	STAGE 07	STAGE 08	STAGE 09	STAGE 10	STAGE 11
DEPTH 1792'	DEPTH 1880'	DEPTH 1887'	DEPTH 1984'	DEPTH 2000'	DEPTH 2052'
RATE 17.5	RATE 17.5	RATE 17.5	RATE 18	RATE 17.5	RATE 17.5
PRESSURE 2190	PRESSURE 2160	PRESSURE 2190	PRESSURE 2044	PRESSURE 2200	PRESSURE 2210
HHP	HHP	HHP	HHP	HHP	HHP
SAND 60	SAND 90	SAND 100	SAND 90	SAND 100	SAND 90
FLUID 4917	FLUID 7548	FLUID 8532	FLUID 7356	FLUID 7783	FLUID 7467
ISDP 1120	ISDP 1170	ISDP 1250	ISDP 1320	ISDP 1340	ISDP 1340

TIME	RATE (BPM)	VOLUME (GAL) (BBL)	PRESSURE (PSI)		DESCRIPTION OF STAGE OR EVENT
			TUBING	CASING	
11:53	17	229		3050	Breakdown + Est. Rate Stg 9/1984'
11:54	17	229		2550	1/2"
11:56	17.5	1760		2050	1" (90)
11:59	18	3380		1900	1 1/2"
12:01	18	5468		1870	2"
12:03	17.5	7356		1870	Flush
12:05	17.5	8463		1900	Shutdown (ISDP 1320)
12:41	17	271		3000	Breakdown + Est. Rate Stg 10/2000'
12:42	17	271		2880	1/2"
12:43	17.5	1432		2250	1" (100)
12:46	17.5	3465		2050	1 1/2"
12:49	17.5	5501		1950	2"
12:52	17.5	7783		1950	Flush
12:53	17.5	8744		1950	Shutdown (ISDP 1340)
1:29	17	341		2500	Breakdown + Est. Rate Stg 11/2052'
1:29	17	341		2750	1/2"
1:31	17.5	1888		2250	1"
1:33	17.5	3504		2050	1 1/2" (90)
1:36	17.5	5528		2000	2"
1:39	17.5	7407		2000	Flush
1:40	17.5	8758		2050	Shutdown (ISDP 1340)
1:49	17.5	8758		200	Wash Pocket
2:05	17.5	8758		150	Finish Pumping

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NORTHWEST REGIONAL OFFICE