30-005.63887 Armstrong Energy Corporation Volleyball State #1 660' FSL & 660' FEL Sec. 2-T12S-R26E Chaves County, New Mexico



Hydrogen Sulfide Plan

Offset wells have not reported hydrogen sulfide in concentration in excess of 100 ppm. As per Rule 118.C.2, no further action is necessary.

As a precautionary measure, a H_2S monitor will be maintained on the rig floor to alert personnel to unanticipated H_2S buildup at the bell nipple and rig floor. Should H_2S be detected, a Hydrogen Sulfide Plan will be implemented.

There are no dwellings within a one-half mile radius of the well. The closest dwelling is an abandoned ranch house approximately one mile east of the location.

Should you have any questions concerning this well, please call me at 505-625-2222.

Sincerely,

Armstrong Energy Corporation

B Astables

By: Bruce A. Stubbs

Vice President - Operations

ARMSTRONG ENERGY CORPORATION DRILLING PROGNOSIS

WELL:

Volleyball State #1

API No:

30-005-

LOCATION:

DIRECTIONS:

660' FSL & 660' FEL Section 2-T12S-R26E

Lat: 33.3049 N Long: 104.30423W (WGS84)

Sotheast of Roswell, N.M. 13.5 miles - East of Roswell

on HWY 380 10 miles to Bottomless

Lake Road (Hwy 409) South 7 miles to Wichita Road

(at Lea Lake Headquarters)

south 2 1/4 miles, east 1 1/4 miles on caliche road,

north 1 1/4 miles, west 1/2 mile to location.

ELEVATION:

GL 3675'

OBJECTIVE:

6500'

Ordovician

OPERATOR:

Armstrong Energy Corporation

Office:

505-625-2222

P.O. Box 1973

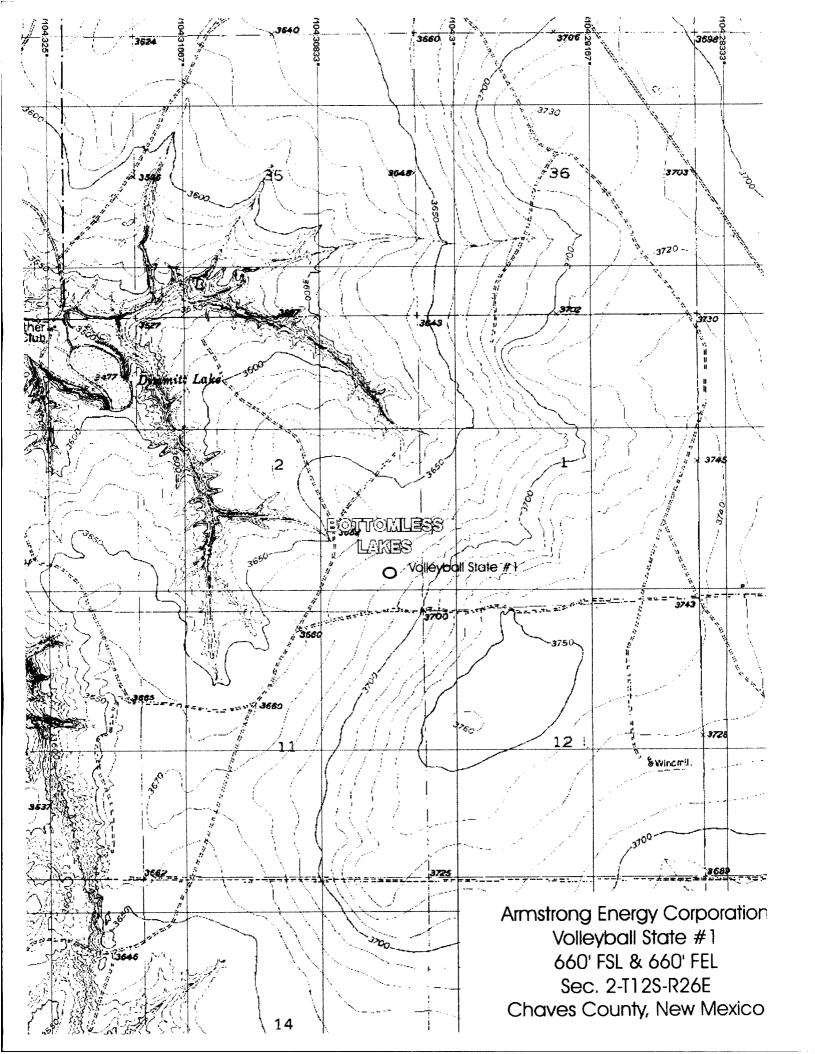
Roswell, New Mexico 88202

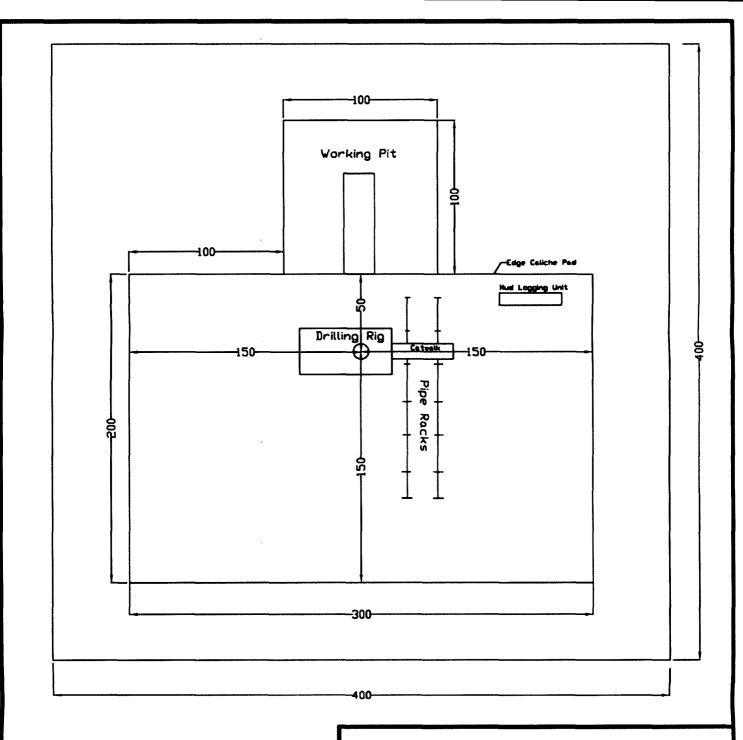
FAX: 505-623-1777

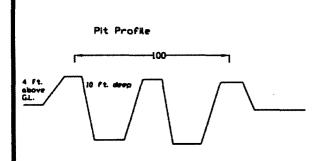
CASING CONDUCTOR:	<u>DEPTH</u> 0-40' 0-40'	CASING 13 3/8"-48 #/ft., H-40, STC 17 1/2" hole	<u>TORQUE</u> 3220	BURST/COLLAPS 1730 / 770
SURFACE CASING:	0-1075' 40'-1075'	8 5/8" - 24 #/ft., J-55, STC 12 1/4" hole	2630	2950 / 1370
PRODUCTION CASING:	0-6500' 1075-6500'	5 1/2" - 17.0 #/ft., J-55, STC 7 7/8" hole	2280	4810 / 4040
CEMENT CONDUCTOR:	<u>рертн</u> 0-40'	DESCRIPTION Redi-mix	AMOUNT 5 cu. Yds.	<u>TOC</u> Surface
SURFACE CASING:	0-900' 900-1075'	Interfill "C" Class "C" w/ 2% CaCl Texas pattern shoe, insert float, rubber plug, 6 centralizers	250 sx. 200 sx.	Surface
PRODUCTION CASING:	1000-3500'	Interfill "C"	305 sx.	1000'
	3500-6500'	Super "H" w/ .5% LAP-1, .4% CFR-3, 3 lb/sx Salt, .25 lb/sx D-AIR Float collar, float shoe, rubber plug, 25 centralizers	355 sx.	
MUD	FLUID	ADDITIVES	<u>F.L.</u>	<u>vis</u>
0-1075'	Fresh water 8.5-9.3 ppg	Gel, paper, LCM, lime for 10 ph	NC	28-30
1075-4300'	Cut Brine 9.7-10.2 ppg	9.7-10 ppg, caustic for 10 ph	50	30
4300'-6500'	Cut Brine 9.7-10.2 ppg	starch, salt gel, LCM, caustic for 10 ph	>6 cc	45-55

FORMATION TOPS		<u>FORMATION</u>	DEPTH	SUBSEA
	K.B.		0	3700
	Queen		370	3330
	Penrose		570	3130
	Grayburg		770	2930
	San Andres		1010	2690
	Glorieta		2200	1500
	Yeso		2310	1390
	Tubb		3660	40
	Abo		4410	-710
	Wolfcamp		5060	-1360
	Wolfcamp "B" Zone		5150	-1450
	Wolfcamp - Cisco		5240	-1540
	Strawn		6110	-2410
	Siluro- Devonian		6240	-2540
B.O.P. PROGRAM:		2000 PSI W.P. Nippled up on 8 5/*" casing 1000 PSI TEST PRESSURE Maximum allowable shut-in pressure 300 psi. (8 5/8" shoe rating)		BHP 2500 psi AT 6200 FT.
HYDOGEN SULPHIDE		OFFSET WELLS HAVE NOT REPORTED HYDROGEN SULPHIDE IN CONCENTRATIONS IN EXCESS OF 100 PPM. AS PER RULE 118.C.2, NO FURTHER ACTION IS NECESSARY.		7(1 obs 1 1.
		AS A PRECAUTIONARY MEASURE, A H2S MONITOR WILL BE INSTALLED ON THE RIG FLOOR TO ALERT PERSONNEL TO UNANTICIPATED H2S BUILD UP AT THE BELL NIPPLE AND RIG FLOOR. SHOULD H2S BE DETECTED A H2S PLAN WILL BE IMPLEMENTED		

BY: Bruce A. Stubbs Engineer







Armstrong Energy Corporation

Drilling Rig Layout Plan

Volleyball State #1 660' FSL & 660' FEL Sec. 2-T12S-R26E Chaves County, New Mexico

25 Ft. BAS 10-19-05