

SAMSON RESOURCES COMPANY

DIRECTIONAL DRILLING PLAN

Well: Southern Ute 33-7-33 #3
STR: Sec 33 T33N R7W
Location (Ft.): 1450FNL , 1680FWL
Field: Ignacio Blanco Field
Co, State: La Plata County, Colorado

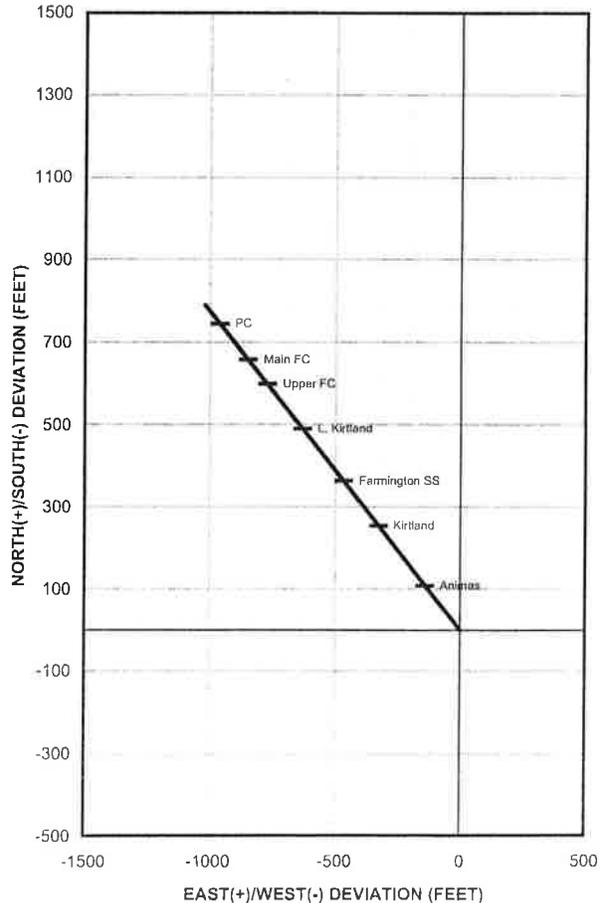
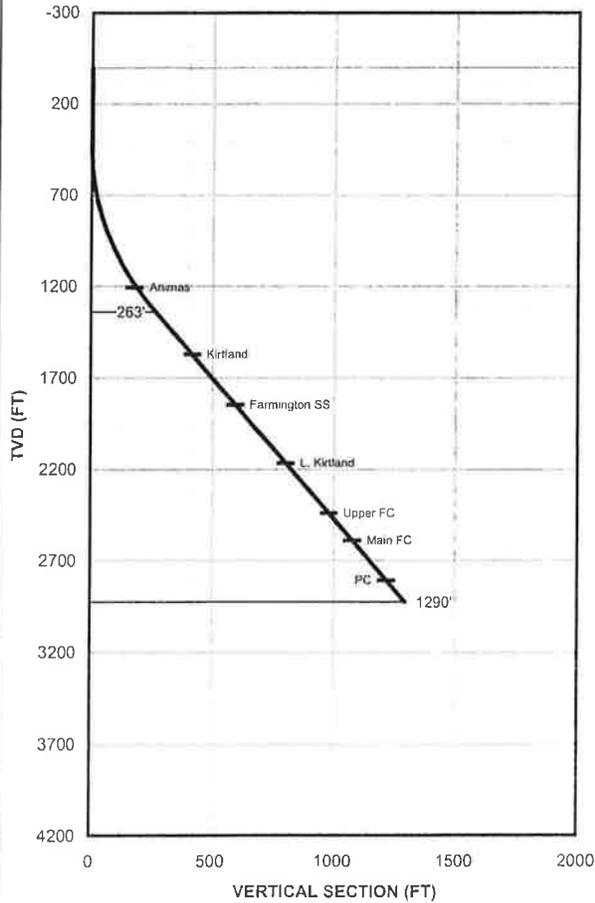
SECTION DETAILS

Section	MD	Incl	Azi	TVD	+N/-S	+E/-W	VSec	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	450.00	0.00	0.00	450.00	0.00	0.00	0.00	
3	1391.24	32.94	307.76	1340.23	161.18	-208.10	263.22	
4	3279.65	32.94	307.76	2925.00	790.00	-1020.00	1290.16	PBHL

ESTIMATED FORMATION TOP DETAILS

Formation	TVD Path	MD Path	+N/-S	+E/-W
Animas	1206.90	1232.36	108.27	-139.80
Kirtland Shale	1571.90	1667.30	253.10	-326.79
Farmington Sandstone	1846.90	1994.99	362.22	-467.68
Lower Kirtland Shale	2166.90	2376.30	489.19	-631.62
Upper Fruitland Coal	2441.90	2703.99	598.31	-772.50
Main Fruitland Coal	2589.90	2880.35	657.04	-848.32
Pictured Cliffs	2807.90	3140.11	743.54	-960.01

GL: 6348'
KB: 6360'



SAMSON RESOURCES COMPANY

SOUTHERN UTE 33-7-33 #3 (Directional Well)

SHL: 1450' FNL & 1680' FWL Section 33, T33N, R7W NMPM

BHL: 660' FNL & 660' FWL Section 33, T33N, R7W NMPM

EIGHT POINT DRILLING PROGRAM

1. ESTIMATED FORMATION TOPS:

FORMATION	TVD	MD
Animas	1207'	1232'
Kirtland Shale	1572'	1667'
Farmington SS	1847'	1995'
Lower Kirtland Shale	2167'	2376'
Upper Fruitland Coal	2442'	2704'
Main Fruitland Coal	2590'	2880'
Proposed Total Depth	2925'	3280'

Directional Plans

Please refer to the attached directional plans for inclination and azimuth details

2. ESTIMATED DEPTHS OF ANTICIPATED MINERALS:

Fruitland Coal Gas 2442' TVD 2704' MD

3. CASING AND CEMENTING PROGRAM:

Hole Size	Casing Size	Wt./Ft.	Grade	Joint	Depth Set
12-1/4"	8-5/8"	24#	J-55	ST&C	350'
7-7/8"	5-1/2"	17#	J-55	LT&C	3280'

Casing	Top Cmt	Type	Sacks	Weight	Yield
Surface	0'	Class B, 2% CaCl	258	15.6 ppg	1.18 cf/sx
Production	0'	Lead: Type III, 2% CaCl	203	11.5 ppg	2.56 cf/sx
		Tail: 50/50 POZ, 2% gel	274	13.5 ppg	1.31 cf/sx

Note: Surface casing cement volumes are based on 100% excess over gauge hole volume. Production casing cement volumes are based on 20% excess. Tail cement is designed to cover 500' above the Fruitland formation top, lead cement is designed to circulate to surface. In the event cement is not circulated a cement bond log will be run to determine the actual cement top, as required. Cementing equipment will include a guide shoe, float collar and 10 centralizers. Other cement types may be used depending on availability.

Surface Casing

Fresh water sands will be cased off with 8-5/8" surface casing string set at 350' (minimum) or 50' below any know source of fresh water and cemented to surface.

Production Casing

Casing will be run to cover all pay sections and will be cemented to surface.

4. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT:

BOP equipment and accessories will meet or exceed BLM requirements outlined in 43 CFR Part 3160.

A 2000 psig double ram hydraulic BOP will be used (see attached diagram). Since maximum anticipated formation pressure is 1500 psig, accessories to the BOP will meet BLM requirements for 2000 psig system. The accumulator system capacity will be sufficient to close all BOPE with a 50% safety factor. Fill line, kill line and line to choke manifold will be 2". BOPs will be function tested every 24 hours and will be recorded on an IADC log. Surface casing will be tested to 1500 psig for 30 minutes. Accessories to BOPE will include upper and lower Kelly cocks with handles, stabbing valve to fit drill pipe on floor at all times, string float at bit, 3000 psig choke manifold with 2" adjustable and 2" positive chokes, and pressure gauge.

5. MUD PROGRAM

A native water based mud system (FW) will be used initially followed by a low-solids, non-dispersal gel system (LSND) to condition the hole for logs. Adequate amounts of lost circulation and weighting material will be on location if needed as well as sorbitive agents to handle potential spills of fuel or lubricants.

Depth	Mud Weight	Fluid Loss	Viscosity	Mud Type
0-350'	± 8.5 ppg	n/c	Fresh Water	Native
350'-TD	8.3-9.0 ppg	NC-8	30-40 sec	LSND

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. LOGGING, TESTING AND CORING PROGRAMS:

No DST's or cores are currently planned. Openhole logs may be utilized and could include GR, Induction, Density and Caliper Logs, and would be run from TD to the bottom of the surface casing.

7. ANTICIPATED ABNORMAL PRESSURE AND TEMPERATURES:

No abnormal pressures or temperatures are expected in this well. Maximum anticipated Fruitland reservoir pressure is 1500 psig with a normal temperature gradient. No hydrogen sulfide gas or other potential hazards are anticipated. Any commercial or potentially hazardous preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the

8. OPERATIONS

The operation is expected to start soon after the permit is issued. Drilling operations are anticipated to last approximately 7 to 10 days and the completion operations are expected to take approximately 10 to 14 days.