

Geologic Prognosis

		Estimated Tops-Pilot hole				Anticipated Minerals
		MD	TVD	SSTVD		
Operator:	Samson Resources Company	ELEV GL:	6849.1	6849.1		
		ELEV KB:	5861.1	5861.1	(est.)	
		San Jose	At Surface			Poss Water to 200'
Well Name:	Melson 34-7-24#1	Animes	1650.0	1506.1	5353.0	None
Field:	Ignacio Blanco	Kirtland Sh.	2100.0	1873.1	4988.0	None
API:	05067	Farmington SS.	2440.0	2148.1	4713.0	None
Section:	Sec 19 T34N R6W	Lower Kirtland	2835.0	2468.1	4393.0	Poss. Gas/Water
Surface Footage:	1866FNL, 383FWL	Up. Fruitland Coal	3174.0	2743.1	4118.0	Gas/Water
County:	La Plata Co., CO	Ignacio Seam	3297.0	2843.1	4018.0	Gas/Water
Lat-Long:	37.17878-107.54961	Basal Coal Seam	None	None		Gas/Water
Lease #	N/A	Inter-Tongue SS	None	None		Gas/Water
AFES	N/A	Pictured Cliffs SS	3378.0	2906.1	3953.0	Gas/Water
		TD	3564	3050		
<p>Surf. Csg size: 5.625" @ 350'</p> <p>Prod. Csg size: 5.5" @ TD</p> <p>Prod Hole Size 7.875"</p>						
<p><u>Horizontal Targets (see directional for more detail)</u></p> <p><u>Lateral #1</u></p> <p>Landing PT: 2847' TVD</p> <p>TOE: 2870' TVD @ 4044.2' W of SHL & 1206.0' N of SHL</p> <p>Top Ignacio Coal: 2838' TVD</p> <p><u>Lateral #2</u></p> <p>Landing PT: 2812' TVD</p> <p>TOE: 2838' TVD @ 4044.2' W of SHL & 1206.0' N of SHL</p> <p>Top Pictured Cliffs: 2802' TVD</p> <p><u>Lateral #3</u></p> <p>Landing PT: 2765' TVD</p> <p>TOE: 2765' TVD @ 4044.2' W of SHL & 1206.0' N of SHL</p> <p>Top Ignacio Coal: Bayfield 2750' TVD</p> <p><u>Stop 30' short of all hardlines</u></p> <p>SEE DIRECTIONAL PLAN FOR DETAILED HARDLINES</p>						
<p>Samson Drilling Rep: Earl Skaggs/Larry Candelaria</p> <p>Phone: 281-436-6229</p> <p>Rig: Aztec #507</p>						
Evaluation Program						
Open Hole Logs (pilot only)						
Please contact Rusty Kelly with Questions.		Weatherford	Contact: Steve Hersh 505-564-9131			
GR		TD to surface casing				
High Resolution Induction/SP/CAL		TD to surface casing				
Density/Neutron-		TD to 2000'				
Image Log		None				
OH Log Scales:						
GR:	0 to 150 API					
Neutron/Density:	.30 to .10 Porosity, 2.65 matrix density					
Bulk Density:	2.0 - 3.0 (wrap & fill RHOB < 1.75 G/CC)					
PE:	0 - 10					
Induction:	5" - 0.2 to 2000 log scale 2" - 0 to 100 linear with conductivity (0-400)					
Email Distribution for: rkelly@samson.com, beckya@samson.com, jreese@samson.com						
Email TIF & LAS logs immediately after logging to: rkelly@samson.com & jnicollette@samson.com						
Do NOT Zip any email files as these will be screened out by our firewall.						
Final prints should consist of Density/Neutron and a Resistivity Print with the following displays:						
Neutron/Density/GR/SP/CAL/PE-5" Display & GR/SP/DCORR/DRHO/PE print of 2" & 5"						
IND/COND/SP/GR with 2" and 5" scales						
Do Not Display Induction Data on the final Density, Neutron, and RHOB prints.						
Please leave a full set of logs with Samson Representative on location.						
EMAIL a borehole volume log to Samson Drilling Department (seder@samson.com)						
Please refer to Distribution list for final mailing, emailing distribution lists						
Mudlogging						
Mudloggers Name:	Doug Redmond	Nolan Redmond				
Contact #	970-946-0407	303-909-3587				
<p><i>This will be a one man mudlogging job on the pilot hole and two men on the horizontal</i></p> <p><i>We want to have the mudloggers out on location to log from 2500' MD to TD and all curve and laterals</i></p>						
<p>Email daily mudlogs and report by 6:30 AM and again at 6:30 PM.</p> <p>Notify Rusty of significant gas kicks, lost returns, or if tops are not coming in as prognosed.</p> <p>Email data to: rkelly@samson.com, cred@samson.com, fseidel@samson.com, beckya@samson.com, bhering@samson.com, jnicollette@samson.com</p>						
Contacts						
Geologist	Team Manager	Reservoir Eng.	Operations Eng.	Drilling Eng.		
Rusty Kelly	Craig Reid	Tom Hewett	Bill Hering	Frank Seidel		
720-239-4370-Office	720-239-4375-Office	720-587-2518-Office	720-239-4363-Office	303-222-0952-Office		
303-249-5643-Cell	303-327-8046-Cell	303-478-4023-Cell	832-244-8195-Cell	303-945-1049-Cell		
rkelly@samson.com	creid@samson.com	thewett@samson.com	bhering@samson.com	fseidel@samson.com		
Directions						
<p>From the intersection of Co. Rds. 521 & 524 south of Bayfield, CO, travel east on Co. Rd. 524 1.5 miles to fork in road. Take right fork (Co. Rd. 523) and travel south 0.3 miles. Location is off left side of road in field.</p>						