

GEOLOGIC & DRILLING PROGNOSIS

Prepared: 19-May-15

Updated: 6/15/2015 RGF

Surface csg changed to 1100' TVD, DM

WELL NAME: RU 544-6
Directional from the pad RU 34-6

STATE: CO **API:** 05045225460000
COUNTY: GARFIELD
BOTTOM HOLE LOCATION: Sec. 6 T 7S R 93W 10 acre Fed
TYPE OF UNIT: Not Spaced
SURFACE HOLE FOOTAGE: 974 FNL 1892 FEL Sec. 6 T 7S R 93W
BOTTOM HOLE FOOTAGE: 191 FSL 601 FEL Sec. 6 T 7S R 93W
SURFACE HOLE XY: X 2346599.300 Y 1603580.30000
BOTTOM HOLE XY: X 2347886.200 Y 1603288.40000
FEDERAL EA: NA
HARDLINE: No

ELEVATION (ft): PAD: 7537
KELLY BUSHING: 7558

RIG INFORMATION:

RIG NAME: H&P 318
KB HEIGHT (ft): 24

ESTIMATE TOPS:

Formation	TVD	MD	Comments
Wasatch	Surface	Surface	
Top of "G" Sand	3543	3612	
Base of "G" Sand	3645	3716	
Mesaverde	6106	6230	(Water zones may be encountered within the upper portion of the Mesaverde)
Approx. Top Gas	7016	7148	
Cameo Coals	8800	8932	
Coal D	9502	9634	
Rollins SS	9616	9748	Drill 150' below Top Rollins to reach TD.
TD	9766	9898	

MUD LOGGING (md): Out of surface casing to TD. (One man or computer unit with at least total gas and drill rate.)

LOGGING PROGRAM: TRAINING WELL - Open-hole and Cased-hole logs

Type of Log: Open-hole Triple-Combo (DIL-GR-SP-Neutron Density)
Interval (md): GR from TD to surface, DIL-SP from TD to surface casing,
Neutron Density from TD to surface casing

Type of Log: Cased-hole Pulsed Neutron log (e.g. RMTE, RPM, or RST)
Interval (md): GR from TD to Surface Casing
Pulsed Neutron from TD to Surface Casing

Strap drill pipe by latest trip prior to TD

CSG & CEMENT PROGRAM: SHOE TEST REQUIRED

	csg size (in)	depth set at (tvd)	depth set at (md)	hole size (in)	Approximate Cmt (ft3) Tail	Tail Yield ft ³ /Sx	Approx. Sx Tail	Approximate Cmt (ft3) Lear	Lead Yield ft ³ /Sx	Approx. Sx Lead	WOC (hrs)
Conductor:											
Surface:	9 5/8"	1100	1117	13 1/2"	352	2.11	167	303	2.37	128	8
Intermediate:											
Liner or Production:	4 1/2"	9766	9898	8 3/4"	1030	1.33	775	310	1.81	171	
					Surface (sacks): 295		Prod (sacks): 946				

Surface cement volumes are calculated w/ 20% excess in gauge hole,
Production cement: tail is calculated to be 300 ft above geologists pick of top of gas, lead TOC is calculated 300 ft above top of MVRD. 10% Excess added.

ANTICIPATED PRESSURES

MASP	Prod Csg Test Pressure	BHP	Pressure (psi)	Prod. Csg. Grade
2,150	7,000	6,836		P-110

MUD PROGRAM: (Do not deviate from mud engineer's recommendation without prior consent from Parachute office)

FROM (md)	TO (md)	TYPE MUD	# GAL	VIS	WL	CHEMICALS
0	1117	Spud	9.0-9.5	45-50		
1117	9898	LSND	9.0-13.5	40-50	8-10	Visease & 507

(Write mud added to system on tour sheets and report all mud mixed and daily cost in morning report)

LOST CIRCULATION: Report depth and bbls of mud lost on morning report and tour sheet - Any severe lost circulation problems should be reported immediately to well supervisor.

SURVEYS: Run every 100' on surface hole and trips unless otherwise instructed.

WPX Energy Geologists:

(note: if there are questions concerning TD or logging, please call Geologist)

Office	Cell	email
Renee Wild	539-573-8939	720-431-0381
Scott Meade		970-260-8131

renee.wild@wpxenergy.com
scott.meade@wpxenergy.com