



~~TIGHT HOLE~~

Williams Production Company
New Mexico
Rio Arriba County
Rosa Unit # 381 - Plan 10/03/02

30-039-27041

Sperry-Sun

Proposal Report

3 October, 2002

Data Source: Information from Gary Sizemore

Proposal Ref: pro5953

HALLIBURTON

Proposal Report for Rosa Unit # 381 - Plan 10/03/02

Data Source: Information from Gary Sizemore

Measured Depth (ft)	Incl. (Deg)	Azim. (Deg)	Station TVD (ft)	Coordinates Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Comment
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
2368.00	0.000	0.000	2368.00	0.00 N	0.00 E	0.00	0.00	Ojo Alamo
2480.00	0.000	0.000	2460.00	0.00 N	0.00 E	0.00	0.00	Build 11.040°/100' to 90° Inc & 280° Azm to 3275.24' md Kirtland
2468.00	0.883	280.000	2468.00	0.01 N	0.06 W	0.06	11.04	
2500.00	4.416	280.000	2499.96	0.27 N	1.52 W	1.54	11.04	
2550.00	9.936	280.000	2549.55	1.35 N	7.67 W	7.78	11.04	
2600.00	15.456	280.000	2598.31	3.26 N	18.48 W	18.77	11.04	
2650.00	20.975	280.000	2645.78	5.97 N	33.87 W	34.39	11.04	
2700.00	26.495	280.000	2691.54	9.47 N	53.68 W	54.51	11.04	
2750.00	32.015	280.000	2735.14	13.71 N	77.74 W	78.93	11.04	
2800.00	37.535	280.000	2776.20	18.66 N	105.81 W	107.44	11.04	
2850.00	43.055	280.000	2814.32	24.27 N	137.64 W	139.77	11.04	
2900.00	48.574	280.000	2849.15	30.49 N	172.94 W	175.61	11.04	
2950.00	54.094	280.000	2880.38	37.27 N	211.37 W	214.63	11.04	
3000.00	59.614	280.000	2907.71	44.54 N	252.58 W	256.48	11.04	
3050.00	65.134	280.000	2930.89	52.23 N	296.19 W	300.76	11.04	
3100.00	70.654	280.000	2949.69	60.27 N	341.79 W	347.07	11.04	
3150.00	76.174	280.000	2963.96	68.59 N	388.97 W	394.97	11.04	
3200.00	81.693	280.000	2973.56	77.10 N	437.27 W	444.02	11.04	
3250.00	87.213	280.000	2978.39	85.74 N	486.27 W	493.77	11.04	
3275.24	90.000	280.000	2979.00	90.12 N	511.12 W	519.00	11.04	EOC - Hold 90° Inc & 280° Azm to 5275.24' md Top of Coal
3300.00	90.000	280.000	2979.00	94.42 N	535.50 W	543.76	0.00	
3400.00	90.000	280.000	2979.00	111.79 N	633.98 W	643.76	0.00	
3500.00	90.000	280.000	2979.00	129.15 N	732.46 W	743.76	0.00	
3600.00	90.000	280.000	2979.00	146.52 N	830.94 W	843.76	0.00	
3700.00	90.000	280.000	2979.00	163.88 N	929.42 W	943.76	0.00	
3800.00	90.000	280.000	2979.00	181.25 N	1027.90 W	1043.76	0.00	
3900.00	90.000	280.000	2979.00	198.61 N	1126.38 W	1143.76	0.00	
4000.00	90.000	280.000	2979.00	215.98 N	1224.86 W	1243.76	0.00	
4100.00	90.000	280.000	2979.00	233.34 N	1323.34 W	1343.76	0.00	
4200.00	90.000	280.000	2979.00	250.71 N	1421.82 W	1443.76	0.00	
4300.00	90.000	280.000	2979.00	268.07 N	1520.30 W	1543.76	0.00	
4400.00	90.000	280.000	2979.00	285.44 N	1618.78 W	1643.76	0.00	
4500.00	90.000	280.000	2979.00	302.80 N	1717.27 W	1743.76	0.00	
4600.00	90.000	280.000	2979.00	320.16 N	1815.75 W	1843.76	0.00	
4700.00	90.000	280.000	2979.00	337.53 N	1914.23 W	1943.76	0.00	
4800.00	90.000	280.000	2979.00	354.89 N	2012.71 W	2043.76	0.00	
4900.00	90.000	280.000	2979.00	372.26 N	2111.19 W	2143.76	0.00	
5000.00	90.000	280.000	2979.00	389.62 N	2209.67 W	2243.76	0.00	
5100.00	90.000	280.000	2979.00	406.99 N	2308.15 W	2343.76	0.00	

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5200.00	90.000	280.000	2979.00	424.35 N	2406.63 W	2443.76	0.00	
5275.24	90.000	280.000	2979.00	437.42 N	2480.73 W	2519.00	0.00	TD of Well @ 5275.24' md & 2979' TVD

All data is in Feet (US) unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB (6317' + 15'). Northings and Eastings are relative to 1425' FNL/495' FWL.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from 1425' FNL/495' FWL and calculated along an Azimuth of 280.000° (True).

Magnetic Declination at Surface is 11.028° (03-Oct-02)

Based upon Minimum Curvature type calculations, at a Measured Depth of 5275.24ft.,
The Bottom Hole Displacement is 2519.00ft., in the Direction of 280.000° (True).

Comments

Measured Depth (ft)	Station Coordinates TVD (ft)	Northings (ft)	Eastings (ft)	Comment
2460.00	2460.00	0.00 N	0.00 E	Kick-Off Point @ 2460' md
2460.01	2460.01	0.00 N	0.00 E	Build 11.040°/100' to 90° Inc & 280° Azm to 3275.24' md
3275.24	2979.00	90.12 N	511.11 W	EOC - Hold 90° Inc & 280° Azm to 5275.24' md
5275.24	2979.00	437.42 N	2480.73 W	TD of Well @ 5275.24' md & 2979' TVD

Formation Tops

Formation Plane (Below Well Origin)			Profile Penetration Point					Formation Name
Sub-Sea (ft)	Dip Angle	Up-Dip Dirn.	Measured Depth (ft)	Vertical Depth (ft)	Sub-Sea Depth (ft)	Northings (ft)	Eastings (ft)	
-3964.00	0.000	0.000	2368.00	2368.00	-3964.00	0.00 N	0.00 E	Ojo Alamo
-3864.00	0.000	0.000	2468.00	2468.00	-3864.00	0.01 N	0.06 W	Kirtland
-3353.00	0.000	0.000	3275.24	2979.00	-3353.00	90.12 N	511.12 W	Top of Coal
3128.00	0.000	0.000						Base of Coal

HALLIBURTON

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Targets associated with this wellpath

Target Name	Target Entry Coordinates			Eastings (ft)	Target Shape	Target Type	
	Vertical/Horizontal Reference Origin	TVD (ft)	Northings (ft)				
Rosa Unit 381 Target	RKB (6317' + 15')/1425' FNL/495' FWL:		3128.00	425.00 N	1105.00 W	Point	Cu