

30-015-39800

RSC Resources, L.P.

Eddy County, NM

Crow Flats A Federal #2H

Crow Flats A Federal #2H

Lateral #1

Survey: MWD Survey #1

Standard Survey Report

09 March, 2012





Job Number: SVCO-120259
 Company: Guardian Operating Corp.
 Lease/Well: Crow Flats A Federal, Well #2H
 Location: Eddy County, NM
 Rig Name: UDI #41
 RKB: 15'
 G.L. or M.S.L.: GL

State/Country: New Mexico / USA
 Declination: 7.79°
 Grid: East To True
 File name: F:\SURVEY\2012SU-1\GUARDI-1\CROW2H.SVY
 Date/Time: 24-Feb-12 / 07:50
 Curve Name: Surface - 4150' M.D. (Gyroscopic)

MS Survey

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 156.78
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 Surface MD to 4,150' MD is, to the best of
 our knowledge a true and accurate account of the
 well bore.
 Dana Jutte 2/24/12
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
200.00	1.00	303.89	199.99	.97	-1.45	-1.47	1.75	303.89	.50
400.00	1.00	296.91	399.96	2.74	-4.45	-4.27	5.23	301.56	.06
600.00	1.00	308.94	599.93	4.62	-7.37	-7.15	8.70	302.11	.10
800.00	.75	299.97	799.91	6.37	-9.86	-9.74	11.74	302.88	.14
1000.00	.75	307.00	999.89	7.82	-12.04	-11.93	14.35	302.99	.05
1200.00	.50	317.03	1199.88	9.24	-13.68	-13.89	16.51	304.04	.14
1400.00	.50	296.06	1399.87	10.26	-15.06	-15.37	18.22	304.28	.09
1600.00	.50	308.09	1599.86	11.19	-16.53	-16.80	19.96	304.09	.05
1800.00	.25	327.12	1799.86	12.09	-17.45	-17.99	21.23	304.71	.14

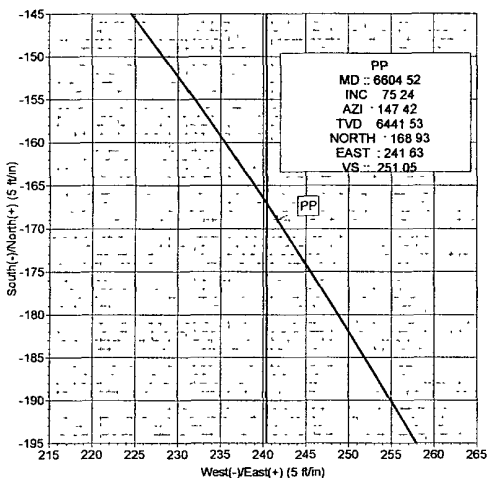
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2000.00	.25	322.26	1999.86	12.80	-17.96	-18.84	22.05	305.49	.01
2200.00	.25	355.29	2199.85	13.58	-18.26	-19.68	22.76	306.64	.07
2400.00	.50	27.33	2399.85	14.79	-17.89	-20.65	23.22	309.58	.16
2600.00	.25	23.35	2599.84	15.97	-17.32	-21.50	23.56	312.67	.13
2800.00	.25	53.38	2799.84	16.63	-16.80	-21.90	23.64	314.71	.06
3000.00	.25	90.37	2999.84	16.89	-16.01	-21.83	23.27	316.52	.08
3200.00	.25	120.09	3199.84	16.66	-15.20	-21.31	22.55	317.64	.06
3400.00	.50	171.88	3399.84	15.58	-14.70	-20.11	21.42	316.68	.20
3600.00	.25	168.55	3599.83	14.29	-14.49	-18.84	20.35	314.61	.13
3800.00	.25	277.34	3799.83	13.92	-14.83	-18.64	20.34	313.18	.20
4000.00	.25	240.14	3999.83	13.76	-15.64	-18.81	20.83	311.33	.08
Last Survey Depth Recorded									
4150.00	.75	273.80	4149.82	13.66	-16.91	-19.22	21.73	308.93	.37

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NMOCD ARTESIA

Guardian

Crow Flats A Federal #2H

Geodetic System: US State Plane 1927 (Exact solution)
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Reference to North: Grid
 Lat: 32° 53' 58.290 N
 Long: 104° 12' 35.783 W
 Eddy County, NM



Azimuths to Grid North
 True North -0.07°
 Magnetic North 7.77°
 Magnetic Field
 Strength 48919.26nT
 Dip Angle 60.71°
 Date 2/27/2012
 Model IGRF200510

ANNOTATIONS

TVD	MD	Annotation
6475.05	8041.00	Build & Turn 0 45°/100' : TFO -91.31°
6475.05	8041.00	Tie-In
6485.58	8558.00	32° 53' 38.355 N :: 104° 12' 25.521 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect	Target
8041.00	89.00	162.60	6475.05	-1527.09	703.17	0.00	1680.85	
8558.00	89.50	159.10	6485.58	-2013.64	877.38	0.00	2196.48	

