

WELL LOGS

K Z

API number:	30-025-41067	
OGRID:		Operator: EOG RESOURCES INC
		Property: ENDURANCE 25 FEDERAL # 2

surface	ULSTR: E	25	T 26S	R 33E
		2310 FNL	990 FWL	

BH Loc	ULSTR: E	25	T 26S	R 33E
		2310 FNL	990 FWL	

Ground Level:	**Conf**	DF:	**Conf**	KB:	**Conf**	
Datum:	KB			TD:	10850	

Land: **FEDERAL**

Completion Date: (1) 8/19/2013

Date Logs Received: 8/26/2013

Date C105 Received: 8/26/2013

Date Logs/C105 Due in: (2) 9/12/2013

Confidential:	YES		Date out:	
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
TD LD CN/GR	**Conf**	**Conf**	Three Detector Litho-Density
HRLA	**Conf**	**Conf**	High Resolution Laterolog

K Z

OCD TOPS

Rustler	**Conf**	Penn		
	Conf	Cisco		
	Conf	Canyon		
	Conf	Strawn		
	Conf	Atoka		
Delaware	**Conf**	Morrow		
Delaware Lm	**Conf**	Barnett Sh		
Delaware Sd	**Conf**	Miss Lime		
Bell Canyon	**Conf**			
Cherry Canyon	**Conf**			
Brushy Canyon	**Conf**			
Bone Spring	**Conf**			
1st Sd	**Conf**			
2nd Carb	**Conf**			
2nd Sd	**Conf**			
3rd Carb	**Conf**			
3rd Sd	**Conf**			
Wolfcamp	**Conf**			

SEP 19 2013

Job Number: 13MLD0264

State/Country: New Mexico, USA

Company: EOG Resources

Declination: 6.93

Lease/Well: Endurance 25 Fed #2 Monitor/ SWD Grid: East to Grid

Location: Lea County

File name: C:\DOCUME~1\PDS\DESKTOP\ENDURA~1\SURVEYS\

Rig Name: Cactus 123

Date/Time: 27-Apr-13 / 01:29

RKB: 30'

Curve Name: Work

G.L. or M.S.L.: MSL

30-025-41067

PathFinder Energy Drilling

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane .00

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Multi-Shot Gyro Tie In									
875.00	.39	322.26	874.99	1.55	-3.80	1.55	4.10	292.19	.00
Following are Pathfinder MWD Surveys									
1057.00	.70	359.52	1056.98	3.15	-4.19	3.15	5.24	306.96	.25
1241.00	.62	1.98	1240.97	5.27	-4.16	5.27	6.72	321.69	.05
1426.00	.44	9.10	1425.96	6.97	-4.02	6.97	8.05	330.05	.10
1613.00	.44	353.63	1612.96	8.39	-3.98	8.39	9.29	334.62	.06
1803.00	.44	320.67	1802.95	9.68	-4.53	9.68	10.69	334.95	.13
1992.00	.53	316.89	1991.94	10.88	-5.58	10.88	12.23	332.84	.05
2182.00	.53	250.88	2181.94	11.24	-7.01	11.24	13.25	328.03	.30
2372.00	.35	210.89	2371.93	10.45	-8.14	10.45	13.25	322.08	.18
2561.00	.35	198.15	2560.93	9.41	-8.62	9.41	12.76	317.51	.04
2751.00	.26	105.25	2750.93	8.74	-8.38	8.74	12.11	316.20	.23
2941.00	.79	112.81	2940.92	8.12	-6.76	8.12	10.57	320.23	.28
3131.00	.62	105.95	3130.90	7.33	-4.56	7.33	8.64	328.09	.10
3321.00	.53	100.77	3320.89	6.88	-2.71	6.88	7.40	338.49	.05
3511.00	.70	133.02	3510.88	5.93	-1.00	5.93	6.01	350.42	.20
3701.00	.35	147.44	3700.88	4.65	.16	4.65	4.65	1.97	.20
3890.00	1.85	101.29	3889.84	3.56	3.46	3.56	4.97	44.18	.86
4080.00	.53	281.47	4079.81	3.14	5.61	3.14	6.43	60.78	1.25
4270.00	.35	306.52	4269.81	3.66	4.28	3.66	5.63	49.49	.14
4460.00	.26	312.23	4459.80	4.29	3.50	4.29	5.54	39.16	.05
4651.00	1.14	118.35	4650.79	3.68	4.85	3.68	6.09	52.78	.73
4840.00	.35	166.86	4839.78	2.23	6.63	2.23	7.00	71.44	.50
5019.00	.26	148.05	5018.77	1.35	6.97	1.35	7.10	79.04	.07
5201.00	.44	313.99	5200.77	1.49	6.69	1.49	6.85	77.48	.38

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	
5392.00	.62	303.97	5391.76	2.57	5.30	2.57	5.89	64.13	.11
5582.00	.26	319.35	5581.76	3.47	4.17	3.47	5.43	50.21	.20
5771.00	.44	314.52	5770.75	4.31	3.37	4.31	5.47	38.07	.10
5960.00	.62	313.29	5959.75	5.52	2.11	5.52	5.91	20.94	.10
6150.00	.70	283.32	6149.73	6.49	.23	6.49	6.49	2.07	.18
6340.00	.88	277.60	6339.72	6.95	-2.34	6.95	7.33	341.38	.10
6530.00	.97	278.83	6529.69	7.39	-5.38	7.39	9.14	323.96	.05
6719.00	.18	81.78	6718.68	7.68	-6.66	7.68	10.17	319.04	.60
6908.00	.35	103.58	6907.68	7.58	-5.81	7.58	9.55	322.55	.10
7098.00	.44	94.53	7097.68	7.39	-4.52	7.39	8.66	328.57	.06
7295.00	.35	108.59	7294.67	7.14	-3.19	7.14	7.82	335.90	.07
7484.00	.79	76.51	7483.66	7.26	-1.38	7.26	7.39	349.24	.28
7673.00	.26	149.81	7672.66	7.19	.10	7.19	7.19	.82	.40
7862.00	.35	202.46	7861.65	6.29	.10	6.29	6.29	.90	.15
8052.00	.79	190.50	8051.64	4.46	-.36	4.46	4.48	355.37	.24
8242.00	.88	198.85	8241.62	1.80	-1.07	1.80	2.09	329.17	.08
8405.00	.70	173.54	8404.61	-.38	-1.36	-.38	1.42	254.50	.24
8595.00	.70	183.30	8594.59	-2.69	-1.30	-2.69	2.99	205.80	.06
8784.00	.79	186.46	8783.58	-5.14	-1.51	-5.14	5.36	196.42	.05
8975.00	.88	191.47	8974.56	-7.88	-1.95	-7.88	8.12	193.92	.06
9165.00	.18	330.78	9164.55	-9.05	-2.39	-9.05	9.36	194.78	.54
9355.00	.00	340.27	9354.55	-8.79	-2.53	-8.79	9.15	196.08	.09
9544.00	.09	354.95	9543.55	-8.64	-2.55	-8.64	9.01	196.42	.05
9734.00	.09	273.56	9733.55	-8.49	-2.71	-8.49	8.91	197.71	.06
9924.00	1.32	235.33	9923.53	-9.72	-4.66	-9.72	10.78	205.60	.66
10113.00	1.14	217.57	10112.49	-12.45	-7.60	-12.45	14.58	211.39	.22
10303.00	2.55	229.26	10302.39	-16.71	-11.95	-16.71	20.54	215.58	.76
10494.00	1.41	277.60	10493.28	-19.17	-17.50	-19.17	25.96	222.39	1.01
10684.00	.62	295.01	10683.25	-18.43	-20.75	-18.43	27.75	228.39	.44
10797.00	1.49	265.39	10796.23	-18.29	-22.77	-18.29	29.20	231.23	.88
TD PTB									
10850.00	1.49	265.39	10849.21	-18.40	-24.14	-18.40	30.35	232.69	.00