

Results of Directional Survey

API number:	30-025-41244		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	FOX 30 STATE COM # 4H

surface	ULSTR:	H	30	T	25S	R	34E
				2140	FNL	685	FEL

BH Loc	ULSTR:	P	31	T	25S	R	34E
17698	MD	9649.5	TVD	233	FSL	296	FEL
				10327	FNL		

Top Perf/OH	ULSTR:	H	30	T	25S	R	34E
10391	MD	9661.7	TVD	3022	FNL	381	FEL

Bot Perf/OH	ULSTR:	P	31	T	25S	R	34E
17580	MD	9651.6	TVD	351	FSL	298	FEL
				10209	FNL		

	MD	N/S	E/W	VD
	10370	-861.29	304.18	9661.6
TOP PERFS/OH	10391	-882.28	303.53	9661.68
	10465	-956.24	301.22	9661.96
	17485	-7973.87	386.03	9653.45
BOT PERFS/OH	17580	-8068.84	387.44	9651.63
	17580	-8068.84	387.44	9651.63

NEXT TO LAST	17664	-8152.82	388.56	9650.14
LAST READING	17698	-8186.81	388.99	9649.49
TD	17698	-8186.81	388.99	9649.49

Surface Location	2140	FN	685	FE
Projected BHL	10327	FN	296	FE
Location of				
Top Perfs/OH	3022	FN	381	FE
Bottom Perfs/OH	10209	FN	298	FE

SUMMARY of Subsurface Locations

Surface Location	H-30-25S-34E	2140	FN	685	FE	Vert. Depth
Top Perfs/OH	H-30-25S-34E	3022	FN	381	FE	9661.68
Bottom Perfs/OH	P-31-25S-34E	10209	FN	298	FE	9651.63
Projected TD	P-31-25S-34E	10327	FN	296	FE	9649.49

APR 14 2014



EOG Fox 30 State Com 4H Gyro+MWD from 0ft to 17698ft MD Survey
Geodetic Report
(Def Survey)

PATHFINDER
A Schlumberger Company

Report Date: August 31, 2013 - 08:37 PM
Client: Eog Resources
Field: NM Lea County (NAD 27)
Structure / Slot: EOG Fox 30 State Com 4H / EOG Fox 30 State Com 4H
Well: EOG Fox 30 State Com 4H
Borehole: Original Borehole
UWI / API#: Cactus 123 / Unknown
Survey Name: EOG Fox 30 State Com 4H Gyro+MWD from 0ft to 17698ft MD
Survey Date: August 14, 2013
Tort / AHD / DDI / ERD Ratio: 204.267' / 8347.625 ft / 6.494 / 0.863
Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 6' 9.90377" W 103° 30' 8.02628"
Location Grid N/E Y/X: N 402096.000 NUS, E 757354.000 NUS
CRS Grid Convergence Angle: 0.4417°
Grid Scale Factor: 0.99998495

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 177.252° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3357.000 ft above
Seabed / Ground Elevation: 3327.000 ft above
Magnetic Declination: 7.385°
Total Gravity Field Strength: 998.4837 mgn (9.80665 Based)
Total Magnetic Field Strength: 48301.562 nT
Magnetic Dip Angle: 59.985°
Declination Date: August 14, 2013
Magnetic Declination Model: BGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.4417°
Total Corr Mag North->Grid North: 6.9429°

HOBBS OCD

FEB 11 2014

RECEIVED

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	143.45	0.00	-3357.00	0.00	0.00	0.00	N/A	402096.00	757354.00	N 32° 6' 9.90	W 103° 30' 8.03
	128.00	0.88	126.72	127.99	-3229.01	0.62	-0.59	0.79	0.69	402095.41	757354.79	N 32° 6' 9.90	W 103° 30' 8.02
	223.00	1.41	150.01	222.98	-3134.02	2.13	-2.04	1.06	0.73	402093.96	757355.96	N 32° 6' 9.88	W 103° 30' 8.00
	314.00	1.23	142.10	313.95	-3043.05	3.92	-3.78	3.12	0.28	402092.22	757357.12	N 32° 6' 9.87	W 103° 30' 7.99
	406.00	1.06	148.96	405.93	-2951.07	5.48	-5.28	4.16	0.24	402090.72	757358.16	N 32° 6' 9.85	W 103° 30' 7.98
	500.00	0.44	119.78	499.93	-2857.07	6.44	-6.21	4.92	0.75	402089.79	757358.92	N 32° 6' 9.84	W 103° 30' 7.97
	591.00	0.35	108.62	590.92	-2766.08	6.73	-6.47	5.49	0.13	402089.53	757359.49	N 32° 6' 9.84	W 103° 30' 7.96
	681.00	0.44	109.76	680.92	-2676.08	6.96	-6.68	6.08	0.10	402089.32	757360.08	N 32° 6' 9.84	W 103° 30' 7.96
	772.00	0.53	85.85	771.92	-2585.08	7.08	-6.76	6.82	0.24	402089.24	757360.82	N 32° 6' 9.84	W 103° 30' 7.95
	864.00	0.70	85.33	863.91	-2493.09	7.05	-6.69	7.81	0.18	402089.31	757361.81	N 32° 6' 9.84	W 103° 30' 7.94
	955.00	0.44	117.49	954.91	-2402.09	7.21	-6.80	8.67	0.44	402089.20	757362.67	N 32° 6' 9.84	W 103° 30' 7.93
	1006.00	0.62	131.65	1005.91	-2351.09	7.50	-7.08	9.05	0.43	402088.92	757363.05	N 32° 6' 9.83	W 103° 30' 7.92
	1148.00	1.06	93.85	1147.89	-2209.11	8.19	-7.68	10.94	0.48	402088.32	757364.94	N 32° 6' 9.83	W 103° 30' 7.90
	1337.00	1.14	18.00	1336.87	-2020.13	6.63	-6.00	13.26	0.72	402090.00	757367.26	N 32° 6' 9.84	W 103° 30' 7.87
	1527.00	0.53	320.35	1526.85	-1830.15	4.16	-3.53	13.29	0.51	402092.47	757367.29	N 32° 6' 9.87	W 103° 30' 7.87
	1717.00	0.44	305.40	1716.84	-1640.16	3.01	-2.43	12.13	0.08	402093.57	757368.13	N 32° 6' 9.88	W 103° 30' 7.89
	1908.00	0.26	274.82	1907.84	-1449.16	2.50	-1.97	11.10	0.13	402094.03	757365.10	N 32° 6' 9.88	W 103° 30' 7.90
	2098.00	0.44	48.50	2097.84	-1259.16	1.99	-1.45	11.22	0.34	402094.55	757365.22	N 32° 6' 9.89	W 103° 30' 7.90
	2288.00	0.26	76.80	2287.83	-1069.17	1.45	-0.87	12.18	0.13	402095.13	757366.18	N 32° 6' 9.89	W 103° 30' 7.88
	2478.00	0.44	83.22	2477.83	-879.17	1.32	-0.68	13.33	0.10	402095.32	757367.33	N 32° 6' 9.90	W 103° 30' 7.87
	2668.00	0.44	13.43	2667.82	-689.18	0.57	0.11	14.22	0.26	402096.11	757368.22	N 32° 6' 9.90	W 103° 30' 7.86
	2857.00	0.97	32.50	2856.81	-500.19	-1.43	2.17	15.25	0.30	402098.17	757369.25	N 32° 6' 9.92	W 103° 30' 7.85
	3048.00	0.53	102.29	3047.80	-309.20	-2.52	3.34	16.98	0.49	402099.34	757370.98	N 32° 6' 9.94	W 103° 30' 7.83
	3237.00	0.97	32.86	3236.78	-120.22	-3.60	4.50	18.70	0.49	402100.50	757372.70	N 32° 6' 9.95	W 103° 30' 7.81
	3428.00	1.06	288.97	3425.76	68.76	-5.55	6.41	17.92	0.85	402102.41	757371.92	N 32° 6' 9.97	W 103° 30' 7.82
	3616.00	0.44	27.05	3615.75	258.75	-6.83	7.63	16.59	0.63	402103.63	757370.59	N 32° 6' 9.98	W 103° 30' 7.83
	3806.00	1.06	217.78	3805.74	448.74	-6.13	6.89	15.84	0.79	402102.89	757369.84	N 32° 6' 9.97	W 103° 30' 7.84
	3995.00	0.44	198.35	3994.73	637.73	-4.12	4.82	14.54	0.35	402100.62	757368.54	N 32° 6' 9.95	W 103° 30' 7.86
	4185.00	0.26	207.76	4184.72	827.72	-3.07	3.75	14.11	0.10	402099.75	757368.11	N 32° 6' 9.94	W 103° 30' 7.86
	4375.00	0.26	172.95	4374.72	1017.72	-2.27	2.94	13.97	0.08	402098.94	757367.97	N 32° 6' 9.93	W 103° 30' 7.86
	4564.00	1.85	100.62	4563.69	1206.69	-1.13	1.95	17.02	0.95	402097.95	757371.02	N 32° 6' 9.92	W 103° 30' 7.83
	4753.00	0.26	337.49	4752.66	1395.66	-0.83	1.79	19.85	1.06	402097.79	757373.85	N 32° 6' 9.92	W 103° 30' 7.80
	4943.00	0.62	135.34	4942.65	1585.65	-0.47	1.45	20.41	0.46	402097.45	757374.41	N 32° 6' 9.92	W 103° 30' 7.79
	5094.00	0.88	326.59	5093.65	1736.65	-0.86	1.84	20.35	0.99	402097.84	757374.34	N 32° 6' 9.92	W 103° 30' 7.79
	5210.00	0.62	340.56	5209.64	1852.64	-2.23	3.18	19.65	0.27	402099.18	757373.65	N 32° 6' 9.93	W 103° 30' 7.80
	5400.00	0.62	18.79	5399.63	2042.63	-4.17	5.12	19.63	0.21	402101.12	757373.63	N 32° 6' 9.95	W 103° 30' 7.80
	5590.00	0.44	324.48	5589.62	2232.62	-5.74	6.88	19.54	0.27	402102.68	757373.54	N 32° 6' 9.97	W 103° 30' 7.80
	5780.00	0.44	300.13	5779.62	2422.62	-6.75	7.64	18.49	0.10	402103.64	757372.49	N 32° 6' 9.98	W 103° 30' 7.81
	5970.00	0.44	287.56	5969.61	2612.61	-7.40	8.23	17.16	0.05	402104.23	757371.16	N 32° 6' 9.98	W 103° 30' 7.83
	6159.00	0.44	297.41	6158.60	2801.60	-8.02	8.78	15.82	0.04	402104.78	757369.82	N 32° 6' 9.99	W 103° 30' 7.84
	6348.00	0.79	213.21	6347.60	2990.60	-7.33	8.03	14.47	0.46	402104.03	757368.47	N 32° 6' 9.98	W 103° 30' 7.86
	6539.00	0.70	193.52	6538.58	3181.58	-5.14	5.79	13.47	0.14	402101.79	757367.47	N 32° 6' 9.96	W 103° 30' 7.87
	6728.00	0.70	200.99	6727.57	3370.57	-2.97	3.59	12.79	0.05	402099.59	757366.79	N 32° 6' 9.94	W 103° 30' 7.88
	6918.00	0.70	199.32	6917.55	3560.55	-0.84	1.41	11.99	0.01	402097.41	757365.99	N 32° 6' 9.92	W 103° 30' 7.89
	7108.00	0.44	147.64	7107.54	3750.54	0.87	-0.30	12.00	0.29	402095.70	757366.00	N 32° 6' 9.90	W 103° 30' 7.89
	7298.00	0.18	146.15	7297.54	3940.54	1.76	-1.16	12.55	0.14	402094.84	757366.55	N 32° 6' 9.89	W 103° 30' 7.88
	7488.00	0.26	150.63	7487.54	4130.54	2.40	-1.79	12.93	0.04	402094.21	757366.93	N 32° 6' 9.88	W 103° 30' 7.88
	7679.00	0.53	196.77	7678.53	4321.53	3.62	-3.01	12.89	0.21	402092.99	757366.89	N 32° 6' 9.87	W 103° 30' 7.88
	7870.00	0.53	213.47	7869.53	4512.53	5.17	-4.59	12.15	0.08	402091.41	757366.15	N 32° 6' 9.86	W 103° 30' 7.89
	8059.00	0.35	109.76	8058.52	4701.52	6.10	-5.52	12.21	0.37	402090.48	757366.21	N 32° 6' 9.85	W 103° 30' 7.88
	8249.00	0.26	41.21	8248.52	4891.52	6.01	-5.39	13.04	0.18	402090.61	757367.04	N 32° 6' 9.85	W 103° 30' 7.88
	8439.00	0.44	77.15	8438.52	5081.52	5.57	-4.90	14.03	0.15	402091.10	757368.03	N 32° 6' 9.85	W 103° 30' 7.86
	8628.00	0.26	18.62	8627.51	5270.51	5.04	-4.33	14.88	0.20	402091.67	757368.88	N 32° 6' 9.86	W 103° 30' 7.85
	8817.00	0.09	32.50	8816.51	5459.51	4.52	-3.80	15.09	0.09	402092.20	757369.09	N 32° 6' 9.86	W 103° 30' 7.85
	9007.00	0.44	325.44	9006.51	5649.51	3.78	-3.08	14.76	0.22	402092.92	757368.76	N 32° 6' 9.87	W 103° 30' 7.85
	9092.00	0.44	324.30	9091.51	5734.51	3.23	-2.54	14.38	0.01	402093.46	757368.38	N 32° 6' 9.88	W 103° 30' 7.86
	9116.00	0.35	325.26	9115.51	5758.51	3.09	-2.41	14.29	0.38	402093.59	757368.29	N 32° 6' 9.88	W 103° 30' 7.86
	9147.00	0.70	135.94	9146.51	5789.51	3.15	-2.47	14.37	3.38	402093.53	757368.37	N 32° 6' 9.88	W 103° 30' 7.86
	9178.00	2.90	143.85	9177.49	5820.49	3.95	-3.23	14.96	7.13	402092.77	757368.96	N 32° 6' 9.87	W 103° 30' 7.85
	9211.00	5.54	147.13	9210.40	5853.40	6.02	-5.25	16.32	8.03	402090.75	757370.32	N 32° 6' 9.85	W 103° 30' 7.84
	9241.00	9.15	148.12	9240.15	5883.15	9.36	-8.49	18.36	12.04	402087.51	757372.36	N 32° 6' 9.82	W 103° 30' 7.81
	9273.00	13.10	149.70	9271.54	5914.54	14.80	-13.78	21.54	12.38	402082.22	757375.54	N 32° 6' 9.77	W 103° 30' 7.78
	9305.00	17.06	150.89	9302.43	5945.43	22.22	-21.02	25.65	12.41	402074.98	757379.65	N 32° 6' 9.69	W 103° 30' 7.73
	9337.00	21.54	151.95	9332.63	5975.63	31.75	-30.31	30.70	14.04	402065.69	757384.70	N 32° 6' 9.60	W 103° 30' 7.67
	9368.00	25.59	152.10	9361.03	6004.03	42.96	-41.25	36.51	13.07	402054.75	757390.51	N 32° 6' 9.49	W 103° 30' 7.61
	9400.00	28.67	150.75	9389.51	6032.51	56.08	-54.06	43.50	9.81	402041.94	757397.50	N 32° 6' 9.37	W 103° 30' 7.53
	9432.00	31.83	150.51	9417.15	6060.15	70.49	-68.11	51.41	9.88	402027.89	757405.41	N 32° 6' 9.23	W 103° 30' 7.43
	9463.00	35.96	149.99	9442.88	6085.88	85.89	-83.11	59.99	13.36	402012.89	757413.99	N 32° 6' 9.08	W 103° 30' 7.34

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	OLS (ft/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9526.00	43.97	149.45	9491.13	6134.13	121.64	-117.91	80.55	12.79	401978.09	757434.55	N 32 6 8.73	W 103 30 7.10
	9558.00	48.01	148.93	9513.36	6156.36	141.94	-137.67	92.34	12.68	401958.33	757446.34	N 32 6 8.53	W 103 30 6.97
	9589.00	51.88	148.15	9533.30	6176.30	162.75	-157.91	104.73	12.63	401938.09	757458.72	N 32 6 8.33	W 103 30 6.82
	9621.00	56.28	147.85	9552.07	6195.07	185.35	-179.88	118.46	13.77	401918.12	757472.46	N 32 6 8.11	W 103 30 6.67
	9652.00	60.85	147.60	9568.24	6211.24	208.38	-202.24	132.58	14.76	401893.77	757486.58	N 32 6 7.89	W 103 30 6.50
	9684.00	64.72	147.52	9582.87	6225.87	233.08	-226.25	147.84	12.10	401869.76	757501.84	N 32 6 7.65	W 103 30 6.33
	9716.00	68.32	147.56	9595.61	6238.61	258.56	-251.01	163.59	11.25	401845.00	757517.59	N 32 6 7.41	W 103 30 6.15
	9747.00	70.61	147.69	9606.49	6249.49	283.80	-275.52	179.13	7.40	401820.48	757533.13	N 32 6 7.16	W 103 30 5.97
	9779.00	72.11	147.85	9616.72	6259.72	310.19	-301.17	195.31	4.71	401794.83	757549.30	N 32 6 6.91	W 103 30 5.78
	9811.00	74.66	147.72	9625.86	6268.86	336.89	-327.11	211.65	7.98	401768.89	757565.55	N 32 6 6.65	W 103 30 5.60
	9843.00	78.44	147.56	9633.31	6276.31	363.94	-353.40	228.31	11.82	401742.61	757582.30	N 32 6 6.39	W 103 30 5.40
	9874.00	80.20	149.94	9639.05	6282.05	390.71	-379.44	244.11	9.44	401716.57	757598.10	N 32 6 6.13	W 103 30 5.22
	9906.00	80.64	153.08	9644.38	6287.38	419.13	-407.17	259.15	9.77	401688.84	757613.15	N 32 6 5.85	W 103 30 5.05
	9937.00	81.51	155.93	9649.19	6292.19	447.37	-434.81	272.33	9.51	401661.20	757626.33	N 32 6 5.58	W 103 30 4.90
	9969.00	82.48	159.49	9653.65	6296.65	477.22	-464.12	284.35	11.43	401631.88	757638.35	N 32 6 5.29	W 103 30 4.76
	10000.00	84.33	163.66	9657.21	6300.21	506.87	-493.33	294.08	14.63	401602.66	757648.07	N 32 6 5.00	W 103 30 4.65
	10032.00	86.17	167.60	9659.86	6302.86	538.09	-524.22	301.99	13.55	401571.79	757655.98	N 32 6 4.69	W 103 30 4.56
	10064.00	86.97	172.54	9661.78	6304.78	569.78	-555.67	307.50	15.81	401540.34	757661.49	N 32 6 4.38	W 103 30 4.50
	10095.00	87.85	176.55	9663.18	6306.18	600.70	-586.49	310.44	13.23	401509.52	757664.43	N 32 6 4.08	W 103 30 4.47
	10127.00	88.46	179.50	9664.21	6307.21	632.68	-618.45	311.54	9.41	401477.56	757665.54	N 32 6 3.76	W 103 30 4.46
	10159.00	89.78	181.14	9664.70	6307.70	664.63	-650.45	311.36	6.58	401445.56	757666.30	N 32 6 3.44	W 103 30 4.47
	10190.00	90.84	181.22	9664.53	6307.53	695.56	-681.44	310.72	3.43	401414.57	757664.72	N 32 6 3.14	W 103 30 4.48
	10275.00	91.54	182.44	9662.77	6305.77	780.26	-766.38	308.01	1.65	401329.84	757662.00	N 32 6 2.30	W 103 30 4.51
	10370.00	89.87	182.18	9661.60	6304.60	874.88	-861.29	304.18	1.78	401234.73	757658.18	N 32 6 1.36	W 103 30 4.57
	10465.00	89.69	181.39	9661.96	6304.96	969.58	-956.24	301.22	0.85	401139.77	757655.22	N 32 6 0.42	W 103 30 4.61
	10560.00	89.87	180.51	9662.33	6305.33	1064.39	-1051.23	299.65	0.95	401044.79	757653.84	N 32 6 5.59	W 103 30 4.64
	10654.00	90.13	179.63	9662.33	6305.33	1158.27	-1145.23	299.53	0.98	400950.79	757653.53	N 32 6 5.85	W 103 30 4.65
	10749.00	89.96	180.42	9662.25	6305.25	1253.16	-1240.23	299.49	0.85	400855.80	757653.49	N 32 6 5.61	W 103 30 4.66
	10844.00	89.34	179.46	9662.83	6305.83	1348.05	-1335.22	299.59	1.20	400760.80	757653.59	N 32 6 5.67	W 103 30 4.66
	10939.00	89.25	179.55	9664.00	6307.00	1442.97	-1430.21	300.41	0.13	400665.81	757654.41	N 32 6 5.57	W 103 30 4.66
	11034.00	88.99	179.90	9665.46	6308.46	1537.87	-1525.20	300.87	0.46	400570.83	757654.86	N 32 6 5.47	W 103 30 4.67
	11129.00	89.60	178.93	9666.63	6309.63	1632.79	-1620.18	301.84	1.21	400475.84	757655.83	N 32 6 5.33	W 103 30 4.66
	11224.00	89.96	178.49	9666.99	6309.99	1727.76	-1715.16	303.98	0.60	400380.87	757657.97	N 32 6 5.21	W 103 30 4.65
	11319.00	90.40	178.05	9666.70	6309.70	1822.75	-1810.12	306.84	0.66	400285.92	757660.84	N 32 6 5.17	W 103 30 4.62
	11414.00	90.22	177.88	9666.18	6309.18	1917.74	-1905.05	310.22	0.26	400190.98	757664.21	N 32 6 5.03	W 103 30 4.59
	11509.00	89.78	177.70	9666.18	6309.18	2012.73	-1999.98	313.88	0.50	400096.05	757667.88	N 32 6 5.01	W 103 30 4.56
	11598.00	90.84	178.93	9665.70	6308.70	2101.71	-2088.94	316.50	1.82	400007.10	757670.49	N 32 6 4.91	W 103 30 4.53
	11693.00	90.22	178.84	9664.82	6307.82	2196.67	-2183.92	318.35	0.66	399912.12	757672.34	N 32 6 4.87	W 103 30 4.52
	11788.00	89.34	177.70	9665.19	6308.19	2291.65	-2278.87	321.21	1.52	399817.17	757675.21	N 32 6 4.73	W 103 30 4.50
	11883.00	89.69	176.65	9665.99	6308.99	2386.65	-2373.75	325.90	1.17	399722.29	757678.99	N 32 6 4.63	W 103 30 4.45
	11978.00	89.43	176.03	9666.72	6309.72	2481.63	-2468.55	331.96	0.71	399627.49	757685.95	N 32 6 4.45	W 103 30 4.39
	12072.00	90.04	177.17	9667.15	6310.15	2575.62	-2562.39	337.53	1.38	399533.66	757691.53	N 32 6 4.42	W 103 30 4.33
	12167.00	89.87	178.93	9667.23	6310.23	2670.61	-2657.33	340.77	1.86	399438.72	757694.76	N 32 6 4.38	W 103 30 4.30
	12261.00	89.96	179.81	9667.37	6310.37	2764.54	-2751.32	341.80	0.94	399344.73	757695.79	N 32 6 4.25	W 103 30 4.30
	12356.00	89.78	179.99	9667.58	6310.58	2859.44	-2846.32	341.97	0.27	399249.73	757696.96	N 32 6 4.17	W 103 30 4.31
	12451.00	89.60	179.90	9668.10	6311.10	2954.34	-2941.32	342.06	0.21	399154.73	757696.05	N 32 6 4.07	W 103 30 4.31
	12545.00	89.43	179.81	9668.89	6311.89	3048.24	-3035.31	342.30	0.20	399060.74	757696.29	N 32 6 3.94	W 103 30 4.32
	12640.00	89.96	179.46	9669.40	6312.40	3143.15	-3130.31	342.90	0.67	398966.74	757696.89	N 32 6 3.80	W 103 30 4.32
	12735.00	89.43	178.58	9669.90	6312.90	3238.10	-3225.29	344.53	1.08	398870.76	757698.52	N 32 6 3.76	W 103 30 4.31
	12830.00	89.52	177.17	9670.78	6313.78	3333.09	-3320.22	348.05	1.49	398775.83	757702.04	N 32 6 3.70	W 103 30 4.28
	12925.00	90.13	177.08	9671.07	6314.07	3428.09	-3415.10	352.81	0.65	398680.96	757706.81	N 32 6 3.68	W 103 30 4.23
	13020.00	89.96	178.58	9670.99	6313.99	3523.08	-3510.03	356.41	1.59	398586.03	757710.40	N 32 6 3.54	W 103 30 4.20
	13115.00	90.04	179.02	9670.99	6313.99	3618.05	-3605.01	358.40	0.47	398491.05	757712.39	N 32 6 3.42	W 103 30 4.18
	13210.00	89.52	179.90	9671.36	6314.36	3712.98	-3700.00	359.29	1.08	398396.06	757713.29	N 32 6 3.32	W 103 30 4.18
	13304.00	90.04	181.04	9671.72	6314.72	3806.82	-3794.00	358.52	1.33	398302.07	757715.52	N 32 6 3.23	W 103 30 4.20
	13399.00	89.96	181.13	9671.72	6314.72	3901.61	-3888.98	356.72	0.13	398207.09	757717.72	N 32 6 3.13	W 103 30 4.23
	13494.00	89.69	181.92	9672.01	6315.01	3996.35	-3983.95	354.20	0.88	398112.12	757708.19	N 32 6 3.04	W 103 30 4.27
	13590.00	88.81	181.74	9673.26	6316.26	4092.03	-4079.89	351.13	0.94	398016.18	757705.12	N 32 6 2.90	W 103 30 4.31
	13685.00	89.78	181.74	9674.43	6317.43	4186.73	-4174.84	348.25	1.02	397921.24	757702.24	N 32 6 2.87	W 103 30 4.35
	13779.00	89.78	181.57	9674.79	6317.79	4280.45	-4268.80	345.53	0.18	397827.28	757699.53	N 32 6 2.74	W 103 30 4.39
	13875.00	90.40	181.21	9674.64	6317.64	4376.20	-4364.77	343.20	0.75	397731.31	757697.20	N 32 6 2.69	W 103 30 4.43
	13969.00	89.96	180.86	9674.35	6317.35	4470.00	-4458.75	341.50	0.60	397637.33	757695.50	N 32 6 2.57	W 103 30 4.46
	14064.00	89.96	180.60	9674.41	6317.41	4564.82	-4553.74	340.29	0.27	397542.34	757694.29	N 32 6 2.42	W 103 30 4.48
	14159.00	90.40	178.75	9674.12	6317.12	4659.73	-4648.74	340.83	2.00	397447.34	757694.83	N 32 6 2.38	W 103 30 4.48
	14254.00	90.48	178.67	9673.39	6316.39	4754.70	-4743.71	342.97	0.12	397352.37	757696.97	N 32 6 2.24	W 103 30 4.46
	14348.00	90.57	178.67	9672.52	6315.52	4848.67	-4837.68	345.15	0.10	397258.40	757699.15	N 32 6 2.21	W 103 30 4.45
	14443.00	90.48	177.96	9671.65	6314.65	4943.64	-4932.63	347.95	0.75	397163.45	757701.94	N 32 6 2.17	W 103 30 4.42
	14538.00	90.48	177.79	9670.86	6313.86	5038.64	-5027.57	351.47	0.18	397068.52	757705.46	N 32 6 2.03	W 103 30 4.39
	14633.00	90.66	177.61	9669.91	6312.91	5133.63	-5122.48	355.28	0.27	396973.60	757709.28	N 32 6 1.91	W 103 30 4.36
	14728.00	89.96	178.75	9669.40	6312.40	5228.61	-5217.43	358.30	1.41	396878.66	757712.29	N 32 6 1.82	W 103 30 4.33
	14823.00	89.87	179.46	9668.54	6312.54	5323.56	-5312.42	359.78	0.75	396783.67	757713.78	N	

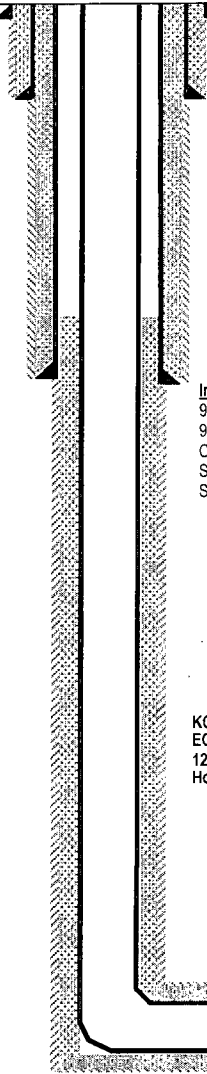
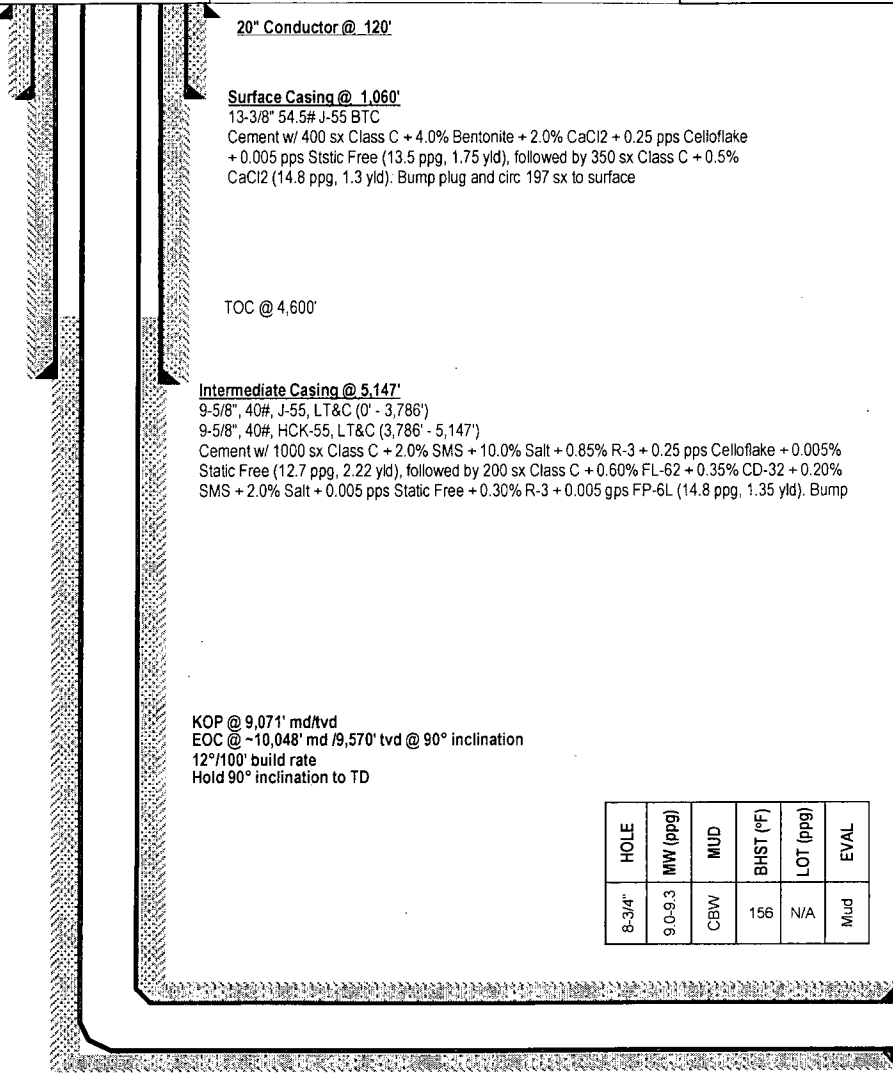
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	17010.00	90.22	177.96	9658.19	6301.19	7508.33	-7499.09	372.73	1.20	394597.04	757726.72	N 32 4 55.67	W 103 30 4.37
	17105.00	91.01	178.40	9657.17	6300.17	7603.32	-7594.03	375.74	0.95	394502.10	757729.74	N 32 4 54.73	W 103 30 4.34
	17200.00	90.66	178.05	9655.79	6298.79	7698.29	-7688.98	378.69	0.52	394407.15	757732.68	N 32 4 53.79	W 103 30 4.31
	17295.00	90.13	178.32	9655.13	6298.13	7793.28	-7783.93	381.69	0.63	394312.21	757735.69	N 32 4 52.85	W 103 30 4.29
	17390.00	90.31	178.67	9654.77	6297.77	7888.25	-7878.89	384.19	0.41	394217.24	757738.18	N 32 4 51.91	W 103 30 4.27
	17485.00	91.28	179.11	9653.45	6296.45	7983.20	-7973.87	386.03	1.12	394122.27	757740.02	N 32 4 50.97	W 103 30 4.25
	17580.00	90.92	179.19	9651.63	6294.63	8078.13	-8068.84	387.44	0.39	394027.30	757741.43	N 32 4 50.03	W 103 30 4.25
Final Survey	17664.00	91.10	179.28	9650.14	6293.14	8162.07	-8152.82	388.56	0.24	393943.32	757742.55	N 32 4 49.20	W 103 30 4.24
Proj to TD	17698.00	91.10	179.28	9649.49	6292.49	8196.04	-8186.81	388.99	0.00	393909.33	757742.98	N 32 4 48.86	W 103 30 4.24

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2 7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	30.000	Act Sins	30.000	30.000	SLB_MWD-STD-Depth Only	Original Borehole / EOG Fox 30 State Com 4H Gyro+MWD from
	30.000	17664.000	Act Sins	30.000	30.000	SLB_MWD-STD	Original Borehole / EOG Fox 30 State Com 4H Gyro+MWD from
	17664.000	17698.000	Act Sins	30.000	30.000	SLB_BLIND-TREND	Original Borehole / EOG Fox 30 State Com 4H Gyro+MWD from

CURRENT WELL SKETCH

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: 7377 API: 30-025-41244 AFE: 105330 SPUD: 8/15/13 @ 03:00 hrs FRR: 9/2/2013 @ 23:00 hrs RIG: Cactus #123	Fox 30 State Com #4H Red Hills(Bone Spring) Field Lea County, New Mexico	SURF: 2140' FNL & 685' FEL LOC: Sec. 30 SURVEY: T-25-S, R-34-E GL: 3327.0' KB: 3357.5' ZERO: 30.5' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
2,000'	Rustler - 920'			20" Conductor @ 120'		17-1/2"	8.6	FW	65		Mud Log
	T / Salado - 1310'			Surface Casing @ 1,060' 13-3/8" 54.5# J-55 BTC Cement w/ 400 sx Class C + 4.0% Bentonite + 2.0% CaCl2 + 0.25 pps Celloflake + 0.005 pps Ststic Free (13.5 ppg, 1.75 yld), followed by 350 sx Class C + 0.5% CaCl2 (14.8 ppg, 1.3 yld): Bump plug and circ 197 sx to surface		12-1/4"	10.0	Brine Water	NA	Mud Log	
3,000'				TOC @ 4,600'		8-3/4"	8.4	WBW	117	N/A	Mud Log
5,000'	B / Salado - 5000' Lamar - 5247' Bell Canyon - 5275'			Intermediate Casing @ 5,147' 9-5/8", 40#, J-55, LT&C (0' - 3,786') 9-5/8", 40#, HCK-55, LT&C (3,786' - 5,147') Cement w/ 1000 sx Class C + 2.0% SMS + 10.0% Salt + 0.85% R-3 + 0.25 pps Celloflake + 0.005% Static Free (12.7 ppg, 2.22 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.35% CD-32 + 0.20% SMS + 2.0% Salt + 0.005 pps Static Free + 0.30% R-3 + 0.005 gps FP-6L (14.8 ppg, 1.35 yld). Bump							
6,000'	Cherry Canyon - 6284'			KOP @ 9,071' md/tvd EOC @ ~10,048' md /9,570' tvd @ 90° inclination 12"/100' build rate Hold 90° inclination to TD							
7,000'						8-3/4"	9.0	WBW	156		Mud Log
8,000'	Brushy Canyon - 7850'										
9,000'	Bone Spring Lime - 9335'										
10,000'											
11,000'											
				Production Casing @ 17,669' MD, 9,650' TVD 5-1/2" 17# HCP-110 LTC (MJ @ 9045') Cement w/ 350 sx Class "C" + 15 pps BA-90 + 4% MPA-5 + 3% SMS + 5% A-10 + 1% BA + 5% A-1 + .8% ASA-301 + 1% EC-1 + 2.35% R-21 + 8 pps LCM-1, (10.8 ppg, 3.68 yld), followed by 400 sx Class "H" + .65% FL-52 + .7% CD-32 + 1% EC-1 + .5% ASA- 301 + .65% SMS + 2% Salt + .25% R-3 + .005% Static Free + 5 pps LCM-1, (11.9 ppg, 2.36 yld), followed by 1950 sx Class "H" + .2% FL-52 + .7% CD-32 + 1% EC-1 + .15% ASA-301 + 1.6% SMS + 5% Salt + .3% R-21 + 5 pps LCM-1 + .005% Static Free, (14.2 ppg, 1.3 yld), pump plug & rupture @ 5130 psi, over-displace w/ 4 bbls, full returns - did not circ cement.							

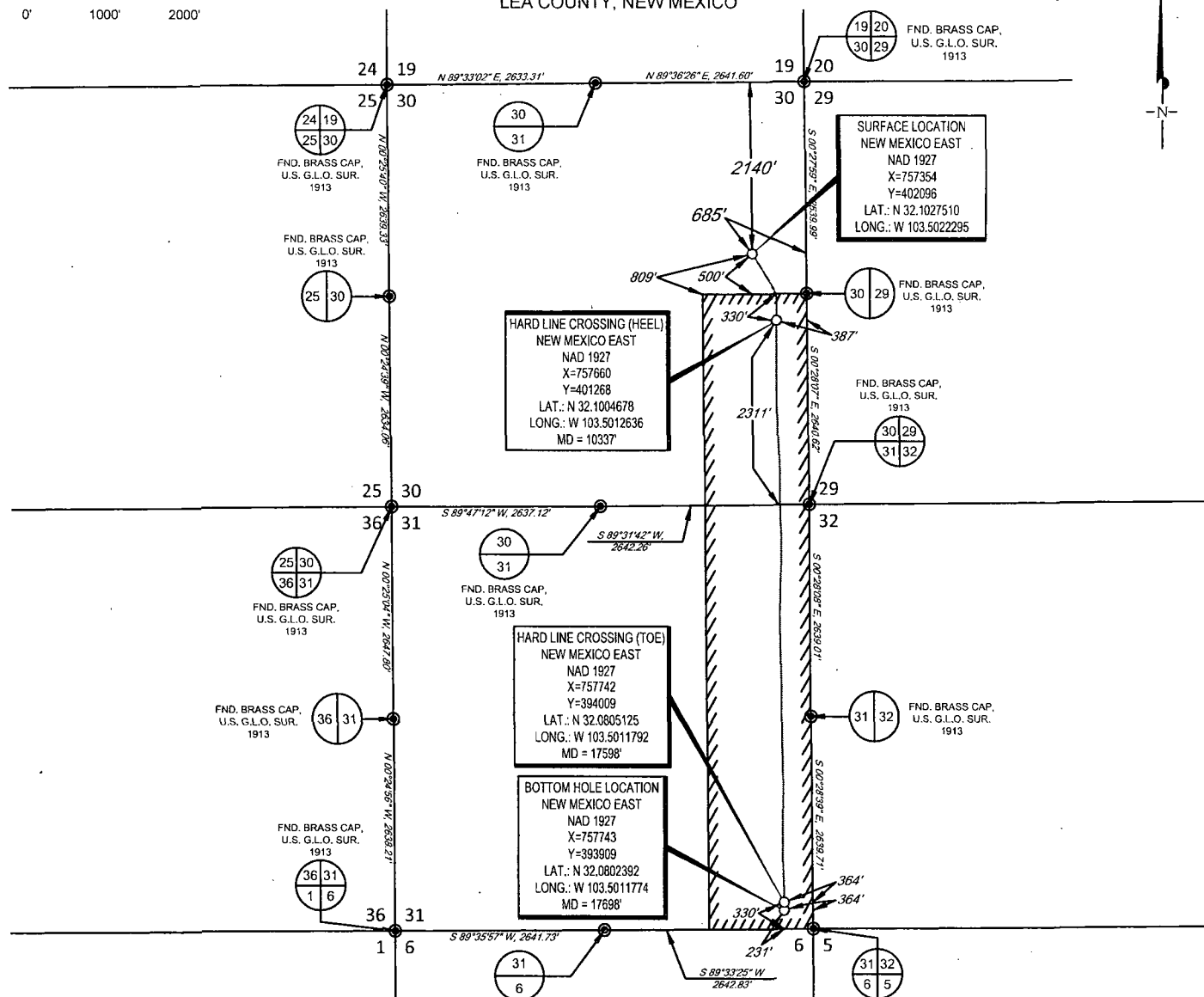
Drlg Eng:	R. Broglie
Date:	9/9/2013

HOLE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVAL
8-3/4"	9.0-9.3	CBW	156	N/A	Mud

Drig Eng:	R. Broglie
Date:	9/9/2013

SCALE: 1" = 2000'
0' 1000' 2000'

SECTION 30, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: FOX 30 STATE COM #4H
SECTION 30 TWP 25-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3327'
DESCRIPTION 2140' FNL & 685' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

eg resources, inc.

**INTERNAL
PRE-COMPLETION
PLAT**

Michael Blake Brown, P.S. No. 18329
OCTOBER 9, 2013

FOX 30 STATE COM #4H PRE-COMPLETION	REVISION:	
	INT	DATE
DATE: 10/9/13		
FILE: C_FOX30STATECOM_4H		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 19 27.
 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
 5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT