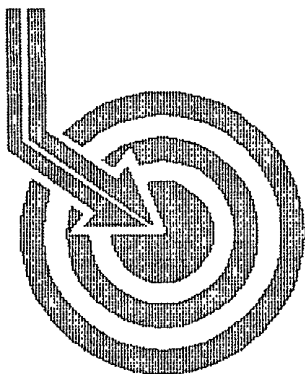




Scientific Drilling

SUR: I - 32-20s-36e, 1980/S & 1100/E
BHL: I - 32-20s-36e, 1894/S & 1253/E
API # 30-025-38080

SAMSON RESOURCES

Field: Wildcat
Site: Lea County, NM
Well: Osudo 32 State Com #1
Wellpath: VH - Job #32K0607489
Survey: 06/12/07

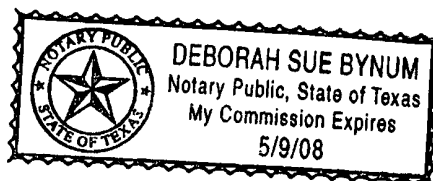


This survey is correct to the best of my knowledge
and is supported by actual field data.

Deborah Sue Bynum.....Company Representative

Notorized this date 11th of July, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: SAMSON RESOURCES	Date: 06/26/2007	Time: 21:17:44	Page: 1
Field: Wildcat	Co-ordinate(NE) Reference:	Site: Lea County, NM, Grid North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Osudo 32 State Com #1	Section (VS) Reference:	Well (0.00N,0.00E,52.25Azi)	
Wellpath: VH - Job #32K0607489	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 06/12/07	Start Date: 06/12/2007
Company: Scientific Drilling Internatio	Engineer: Gonzales/Rehders w/GeoGyro
Tool: Keeper;Keeper Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.16	5.09	100.00	0.09	0.14	0.01	0.16	0.14	5.09
200.00	0.13	345.73	200.00	0.24	0.39	0.00	0.06	0.39	359.53
300.00	0.07	80.05	300.00	0.33	0.51	0.03	0.15	0.51	3.27
400.00	0.17	333.03	400.00	0.42	0.65	0.02	0.20	0.65	1.93
500.00	0.11	342.40	500.00	0.48	0.88	-0.07	0.06	0.88	355.14
600.00	0.16	303.47	600.00	0.47	1.04	-0.22	0.10	1.07	348.10
700.00	0.37	307.27	700.00	0.34	1.32	-0.59	0.21	1.44	335.73
800.00	0.45	315.83	800.00	0.21	1.79	-1.12	0.10	2.12	327.92
900.00	0.64	333.85	899.99	0.28	2.58	-1.64	0.25	3.06	327.46
1000.00	0.63	321.73	999.98	0.39	3.51	-2.23	0.13	4.16	327.56
1100.00	0.48	319.50	1099.98	0.36	4.26	-2.84	0.15	5.12	326.28
1200.00	0.49	319.50	1199.98	0.32	4.90	-3.39	0.01	5.96	325.32
1300.00	0.28	276.20	1299.97	0.12	5.25	-3.91	0.34	6.55	323.32
1400.00	0.24	260.40	1399.97	-0.24	5.25	-4.36	0.08	6.82	320.25
1500.00	0.30	236.07	1499.97	-0.68	5.07	-4.79	0.13	6.97	316.62
1600.00	0.21	219.42	1599.97	-1.12	4.78	-5.12	0.12	7.00	313.02
1700.00	0.48	207.58	1699.97	-1.68	4.26	-5.43	0.28	6.90	308.14
1800.00	0.46	216.99	1799.97	-2.45	3.57	-5.87	0.08	6.87	301.34
1900.00	0.62	202.54	1899.96	-3.31	2.75	-6.31	0.21	6.89	293.55
2000.00	0.55	201.53	1999.96	-4.19	1.81	-6.70	0.07	6.94	285.09
2100.00	0.44	192.40	2099.95	-4.90	0.98	-6.96	0.14	7.03	278.06
2200.00	0.32	201.86	2199.95	-5.43	0.35	-7.14	0.14	7.15	272.81
2300.00	0.40	179.13	2299.95	-5.88	-0.26	-7.24	0.16	7.25	267.96
2400.00	0.40	211.67	2399.95	-6.42	-0.90	-7.42	0.22	7.47	263.05
2500.00	0.30	190.72	2499.94	-6.94	-1.46	-7.65	0.16	7.79	259.21
2600.00	0.16	156.40	2599.94	-7.17	-1.84	-7.64	0.19	7.86	256.44
2700.00	0.20	125.76	2699.94	-7.16	-2.07	-7.45	0.10	7.73	254.44
2800.00	0.30	95.71	2799.94	-6.92	-2.20	-7.04	0.16	7.38	252.65
2900.00	0.51	72.69	2899.94	-6.31	-2.10	-6.36	0.26	6.70	251.77
3000.00	0.77	71.73	2999.93	-5.26	-1.75	-5.30	0.26	5.58	251.70
3100.00	0.84	72.07	3099.92	-3.94	-1.32	-3.96	0.07	4.17	251.63
3200.00	0.86	63.33	3199.91	-2.51	-0.75	-2.59	0.13	2.70	253.80
3300.00	0.95	70.59	3299.90	-0.99	-0.14	-1.14	0.15	1.15	262.96
3400.00	0.94	62.52	3399.89	0.61	0.51	0.37	0.13	0.63	35.72
3500.00	0.82	67.13	3499.87	2.10	1.17	1.76	0.14	2.11	56.33
3600.00	0.61	58.47	3599.87	3.33	1.73	2.87	0.24	3.35	58.97
3700.00	0.53	51.61	3699.86	4.32	2.29	3.69	0.11	4.34	58.12
3800.00	0.53	71.21	3799.86	5.22	2.73	4.49	0.18	5.25	58.69
3900.00	0.61	61.26	3899.85	6.18	3.13	5.39	0.13	6.23	59.83
4000.00	0.55	77.31	3999.85	7.14	3.49	6.33	0.17	7.23	61.08
4100.00	0.57	83.13	4099.84	8.00	3.66	7.29	0.06	8.15	63.34
4200.00	0.64	95.31	4199.84	8.84	3.67	8.34	0.15	9.11	66.26
4300.00	0.58	96.68	4299.83	9.61	3.56	9.40	0.06	10.05	69.27
4400.00	0.46	78.15	4399.83	10.33	3.58	10.29	0.21	10.90	70.82
4500.00	0.41	69.94	4499.82	11.03	3.79	11.02	0.08	11.65	71.04
4600.00	0.41	75.79	4599.82	11.70	4.00	11.70	0.04	12.37	71.15
4700.00	0.35	45.69	4699.82	12.33	4.30	12.27	0.21	13.00	70.70
4800.00	0.39	59.14	4799.82	12.97	4.68	12.78	0.10	13.61	69.87



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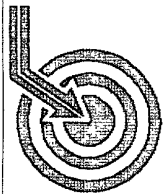
Survey Report

Company: SAMSON_RESOURCES
 Field: Wildcat
 Site: Lea County, NM
 Well: Osudo 32 State Com #1
 Wellpath: VH - Job #32K0607489

Date: 06/26/2007 Time: 21:17:44 Page: 2
 Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
 Vertical (TVD) Reference: SITE 0.0
 Section (VS) Reference: Well (0.00N,0.00E,52.25Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	0.41	66.68	4899.82	13.66	5.00	13.40	0.06	14.30	69.53
5000.00	0.43	68.21	4999.81	14.36	5.28	14.08	0.02	15.04	69.43
5100.00	0.46	55.78	5099.81	15.13	5.65	14.76	0.10	15.80	69.06
5200.00	0.36	44.74	5199.81	15.84	6.10	15.31	0.13	16.48	68.29
5300.00	0.33	38.31	5299.81	16.43	6.55	15.71	0.05	17.02	67.38
5400.00	0.30	21.38	5399.80	16.93	7.01	15.98	0.10	17.46	66.31
5500.00	0.27	43.59	5499.80	17.39	7.43	16.24	0.11	17.86	65.42
5600.00	0.28	52.62	5599.80	17.87	7.75	16.60	0.04	18.32	64.98
5700.00	0.33	68.37	5699.80	18.39	8.00	17.06	0.10	18.84	64.87
5800.00	0.36	22.96	5799.80	18.94	8.40	17.45	0.27	19.37	64.30
5900.00	0.20	22.58	5899.80	19.37	8.85	17.64	0.16	19.74	63.36
6000.00	0.32	328.69	5999.80	19.55	9.25	17.56	0.26	19.85	62.23
6100.00	0.50	299.96	6099.79	19.41	9.70	17.04	0.27	19.61	60.34
6200.00	0.67	269.15	6199.79	18.78	9.91	16.08	0.35	18.89	58.34
6300.00	0.74	260.60	6299.78	17.75	9.80	14.85	0.13	17.80	56.59
6400.00	0.89	268.19	6399.77	16.55	9.67	13.44	0.18	16.56	54.27
6500.00	0.69	256.94	6499.76	15.37	9.51	12.08	0.25	15.37	51.79
6600.00	0.44	245.80	6599.76	14.45	9.22	11.14	0.27	14.46	50.40
6700.00	0.38	257.44	6699.75	13.78	8.99	10.47	0.10	13.80	49.36
6800.00	0.33	250.56	6799.75	13.21	8.82	9.87	0.07	13.24	48.23
6900.00	0.38	281.25	6899.75	12.71	8.79	9.28	0.19	12.78	46.55
7000.00	0.20	278.05	6999.75	12.38	8.88	8.78	0.18	12.48	44.68
7100.00	0.30	298.20	7099.75	12.15	9.02	8.37	0.13	12.31	42.86
7200.00	0.19	321.48	7199.75	12.04	9.28	8.04	0.15	12.28	40.91
7300.00	0.37	329.40	7299.75	12.08	9.69	7.77	0.18	12.42	38.75
7400.00	0.36	346.32	7399.74	12.24	10.27	7.53	0.11	12.74	36.27
7500.00	0.42	359.33	7499.74	12.59	10.94	7.46	0.11	13.24	34.27
7600.00	0.39	19.26	7599.74	13.10	11.63	7.56	0.14	13.87	33.04
7700.00	0.49	80.08	7699.74	13.76	12.02	8.10	0.45	14.50	33.96
7800.00	1.06	97.55	7799.73	14.79	11.98	9.44	0.61	15.25	38.23
7900.00	1.62	89.20	7899.70	16.57	11.87	11.77	0.59	16.72	44.74
8000.00	1.91	86.34	7999.65	19.08	12.00	14.84	0.30	19.09	51.04
8100.00	1.78	85.03	8099.60	21.77	12.24	18.05	0.14	21.81	55.86
8200.00	1.88	59.37	8199.55	24.70	13.21	21.01	0.82	24.82	57.84
8300.00	2.23	39.45	8299.49	28.23	15.55	23.66	0.79	28.31	56.69
8400.00	2.36	38.67	8399.41	32.12	18.66	26.18	0.13	32.15	54.52
8500.00	2.40	38.68	8499.32	36.16	21.90	28.78	0.04	36.16	52.73
8530.00	2.50	38.60	8529.29	37.41	22.90	29.58	0.33	37.41	52.25



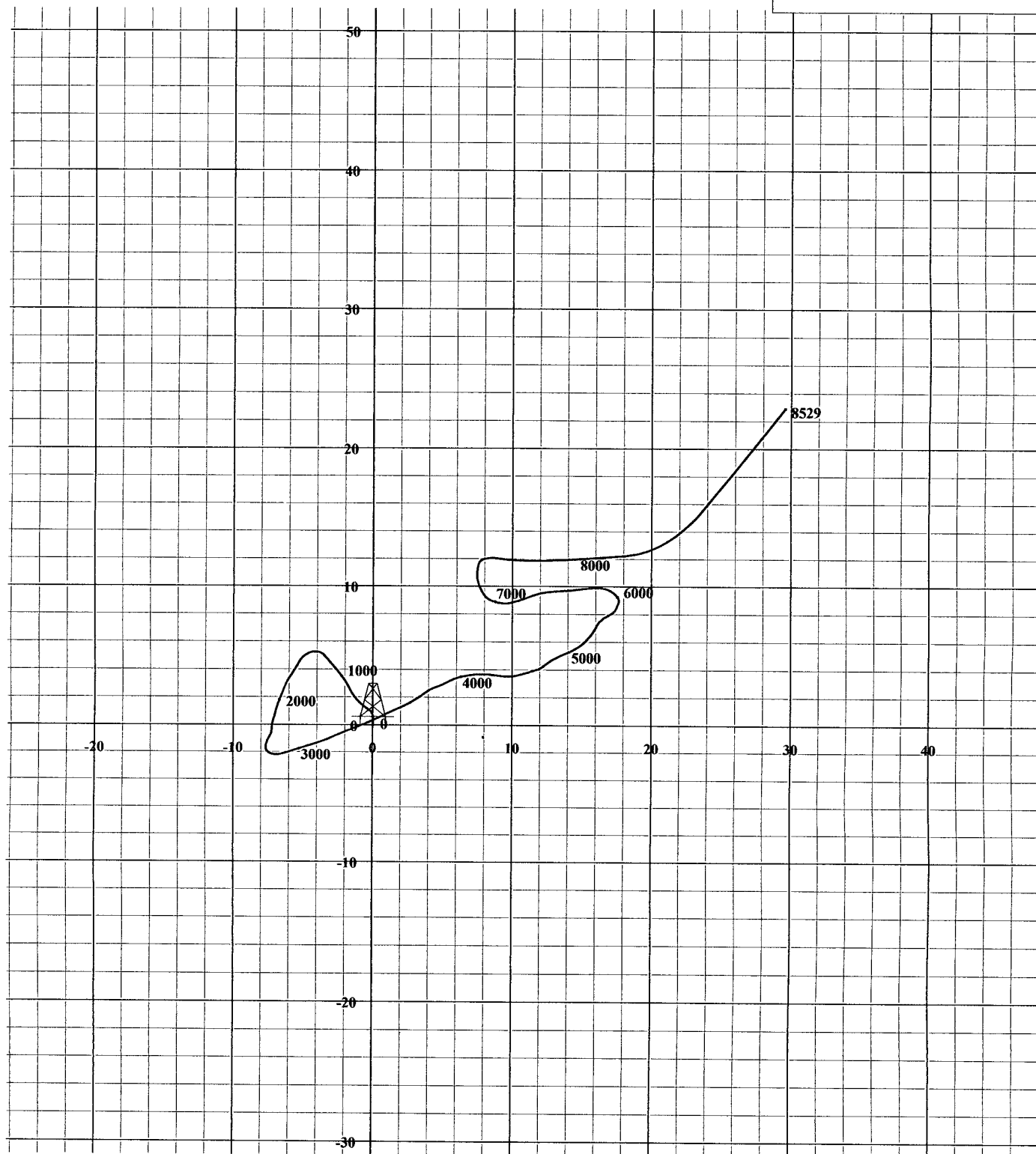
Scientific
Drilling

Field: Wildcat
Site: Lea County, NM
Well: Osudo 32 State Com #1
Wellpath: VH - Job #32K0607489
Survey: 06/12/07



Azimuths to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Strength 0.1
Day Angle 0.00°
Date 06/26/2007
Model sgr2000

South(-)/North(+) [5ft/in]



West(-)/East(+) [5ft/in]



Directional Services

Job Number: 0711175051205
 Company: Samson Resources
 Lease/Well: Osudo 32 State Com, Well #1
 Location: Lea County, New Mexico
 Rig Name: Patterson #480
 RKB: 33'
 G.L. or M.S.L.: ☐

State/Country: New Mexico/USA
 Declination: 7.47°
 Grid: East To Grid
 File name: F:\SURVEY\2007SU~1\SAMSON~1\OSUDO32.SVY
 Date/Time: 10-Jul-07 / 09:05
 Curve Name: 9400' - 11630' M.D.

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 225.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from
 9,400' MD to 11,630' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore.

Sam Little 7/10/07
 Multi-Shot Date

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
9387.00	5.40	225.80	9380.03	-34.86	-32.28	47.48	47.51	222.80	.00
Tied Multi-Shot Gyroscopic Surveys Into Leam MWD Surveys - Information Provided By Operator									
9400.00	5.75	216.89	9392.97	-35.81	-33.11	48.73	48.77	222.76	7.17
9500.00	4.50	217.21	9492.57	-42.94	-38.49	57.58	57.66	221.87	1.25
9600.00	3.25	218.28	9592.34	-48.29	-42.62	64.28	64.41	221.43	1.25
9700.00	2.25	226.35	9692.22	-51.87	-45.79	69.06	69.19	221.44	1.07
9800.00	2.25	228.40	9792.14	-54.53	-48.68	72.98	73.10	221.76	.08
9900.00	1.75	230.45	9892.08	-56.80	-51.33	76.46	76.56	222.10	.51
10000.00	1.75	229.50	9992.04	-58.77	-53.67	79.50	79.58	222.40	.03
10100.00	1.50	239.55	10092.00	-60.42	-55.96	82.29	82.35	222.80	.38
10200.00	1.25	240.60	10191.97	-61.62	-58.03	84.61	84.65	223.28	.25
10300.00	1.50	245.65	10291.94	-62.69	-60.18	86.88	86.90	223.83	.28

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	
10400.00	1.75	240.70	10391.90	-63.98	-62.70	89.58	89.58	224.42	.29
10500.00	2.50	244.76	10491.83	-65.66	-66.01	93.10	93.10	225.15	.76
10600.00	3.25	248.83	10591.70	-67.61	-70.62	97.75	97.77	226.25	.78
10700.00	3.50	248.88	10691.53	-69.74	-76.11	103.13	103.23	227.50	.25
10800.00	3.50	251.93	10791.34	-71.78	-81.86	108.64	108.88	228.75	.19
10900.00	3.75	253.99	10891.14	-73.63	-87.91	114.22	114.67	230.05	.28
11000.00	4.00	263.06	10990.91	-74.96	-94.51	119.83	120.63	231.58	.66
11100.00	4.25	257.11	11090.65	-76.20	-101.59	125.72	126.99	233.13	.50
11200.00	5.25	259.20	11190.31	-77.89	-109.69	132.64	134.53	234.62	1.01
11300.00	4.75	258.23	11289.93	-79.59	-118.24	139.89	142.53	236.06	.51
11400.00	4.50	260.27	11389.60	-81.10	-126.16	146.55	149.98	237.27	.30
11500.00	4.50	257.56	11489.30	-82.60	-133.86	153.06	157.29	238.32	.21
11600.00	4.50	261.62	11588.99	-84.02	-141.57	159.52	164.63	239.31	.32
Last Survey Depth Recorded									
11630.00	4.50	260.87	11618.90	-84.38	-143.90	161.42	166.81	239.61	.20