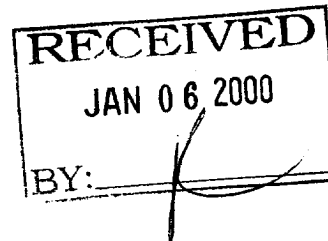


Patterson Drilling Company

410 N. Loraine Street — (915) 682-9401
Midland, Texas 79701

January 4, 2000

Queen Sand Resources Operating Company
13760 Noel Rd., Ste. 1030, LB 44
Dallas, TX 75240-7336



Re: Deviation Report
Drickey Queen #55

SUR: 140/S & 330/W
m-15-145-31e

Gentlemen:

The following is a deviation survey on the above-referenced well located in
Chaves County, New Mexico.

BHL: 2694/S & 300/W
L-15-145-31e
30-005-21157

412' - 0.25	2837' - 1.20
869' - 0.25	3236' - 87.3
1369' - 0.25	4171' - 86.9
1836' - 0.75	4265' - 85.5
2332' - 0.25	4672' - 89.6
2529' - 2.00	5173' - 92.2

Sincerely,

Treva Forrester

Treva Forrester

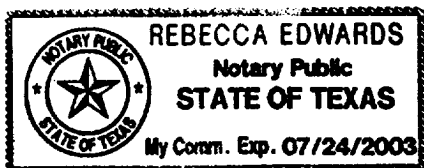
STATE OF TEXAS)
)
COUNTY OF MIDLAND)

The foregoing was acknowledged before me this 4th day of January, 2000 by
Treva Forrester.

MY COMMISSION EXPIRES:

Rebecca Edwards

NOTARY PUBLIC



QUEEN SAND OPERATING COMPANY

Structure : DQSU No. 55

Slot : slot #1

Field : CAPROCK

Location : CHAVES COUNTY, NEW MEXICO



Logarithmic Scale (feet)
To convert multiply True Depth by 0.001



< - True Vertical Depth (feet)

Azimuth 0.00 with reference 0.00 N, 0.00 E from slot #1

Vertical Section (feet) ->

TD - 5308 MD, 2920.58 TVD

East (feet) ->

Bottom Hole Location
2553.68' N & 30.29' W of Surface
Closure - 2553.86' @ 359.32 Degrees Azimuth

Surface Location

< - North (feet)

Created by borthw

Date plotted : 28-Dec-1999

Plot Reference is 14.5 Deg BUR

Coordinates are in feet reference slot #1.

True Vertical Depths are reference rotary table.

--- Baker Hughes INTEQ ---

QUEEN SAND OPERATING COMPANY
DQSU No. 55

slot #1
CAPROCK
CHAVES COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy1331
License :

Date printed : 28-Dec-1999
Date created : 15-Dec-1999
Last revised : 28-Dec-1999

Field is centred on n33 5 0.000,w103 55 0
Structure is centred on n33 5 0.000,w103 55 0

Slot location is n33 5 0.000,w103 55 0.000
Slot Grid coordinates are N 758084.198, E 627623.269
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866
Reference North is True North

QUEEN SAND OPERATING COMPANY
 DQSU No. 55, slot #1
 CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 1
 Your ref : MWD
 Last revised : 28-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00
100.00	0.12	52.88	100.00	0.06 N	0.08 E	0.06
200.00	0.39	19.01	200.00	0.45 N	0.27 E	0.45
300.00	0.34	40.55	300.00	1.00 N	0.58 E	1.00
400.00	0.25	54.16	400.00	1.35 N	0.95 E	1.35
500.00	0.31	359.60	499.99	1.75 N	1.13 E	1.75
600.00	0.32	358.47	599.99	2.30 N	1.12 E	2.30
700.00	0.22	37.69	699.99	2.74 N	1.23 E	2.74
800.00	0.66	86.42	799.99	2.92 N	1.92 E	2.92
900.00	0.39	72.93	899.98	3.06 N	2.82 E	3.06
1000.00	0.26	89.26	999.98	3.16 N	3.38 E	3.16
1100.00	0.20	281.33	1099.98	3.20 N	3.43 E	3.20
1200.00	0.54	278.63	1199.98	3.31 N	2.79 E	3.31
1300.00	0.35	251.61	1299.98	3.28 N	2.03 E	3.28
1400.00	0.19	218.97	1399.98	3.05 N	1.63 E	3.05
1500.00	0.18	225.57	1499.98	2.82 N	1.42 E	2.82
1600.00	0.28	232.99	1599.98	2.56 N	1.11 E	2.56
1700.00	0.26	196.54	1699.97	2.19 N	0.85 E	2.19
1800.00	0.29	148.01	1799.97	1.75 N	0.92 E	1.75
1900.00	0.37	140.32	1899.97	1.29 N	1.26 E	1.29
2000.00	0.19	115.22	1999.97	0.97 N	1.62 E	0.97
2100.00	0.27	92.21	2099.97	0.89 N	2.00 E	0.89
2200.00	0.13	124.93	2199.97	0.82 N	2.32 E	0.82
2300.00	0.14	100.27	2299.97	0.73 N	2.54 E	0.73
2400.00	0.22	13.32	2399.97	0.89 N	2.70 E	0.89

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 2553.86 on azimuth 359.32 degrees from wellhead.
 Vertical section is from wellhead on azimuth 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

QUEEN SAND OPERATING COMPANY
DQSU No. 55, slot #1
CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : MWD
Last revised : 28-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
2500.00	0.32	26.77	2499.97	1.32 N	2.87 E	1.32
2510.00	0.29	30.03	2509.97	1.37 N	2.90 E	1.37
2529.00	2.00	34.40	2528.96	1.68 N	3.11 E	1.68
2550.00	6.70	17.60	2559.87	3.85 N	3.96 E	3.85
2550.00	11.40	14.30	2589.48	8.40 N	5.22 E	8.40
2621.00	15.50	13.00	2619.63	15.41 N	6.91 E	15.41
2651.00	19.30	9.90	2648.25	24.20 N	8.67 E	24.20
2682.00	23.40	7.70	2677.12	35.35 N	10.37 E	35.35
2712.00	28.00	6.20	2704.14	48.26 N	11.93 E	48.26
2743.00	32.60	3.70	2730.90	63.84 N	13.26 E	63.84
2774.00	37.10	2.60	2756.34	81.52 N	14.22 E	81.52
2805.00	41.30	2.10	2780.35	101.09 N	15.02 E	101.09
2837.00	46.30	1.20	2803.44	123.23 N	15.65 E	123.23
2868.00	51.00	359.60	2823.92	146.49 N	15.80 E	146.49
2899.00	54.80	358.30	2842.61	171.20 N	15.34 E	171.20
2930.00	58.50	357.60	2859.65	197.08 N	14.41 E	197.08
2961.00	62.70	356.70	2874.87	224.05 N	13.06 E	224.05
2992.00	67.30	356.20	2887.97	252.08 N	11.32 E	252.08
3000.00	71.00	355.10	2899.00	280.96 N	9.12 E	280.96
3003.00	74.20	355.00	2907.97	309.48 N	6.65 E	309.48
3084.00	77.50	355.10	2915.55	339.42 N	4.06 E	339.42
3115.00	82.30	355.20	2920.98	369.82 N	1.48 E	369.82
3141.00	84.80	355.20	2923.90	395.56 N	0.68 W	395.56
3173.00	85.50	355.20	2926.61	427.34 N	3.35 W	427.34
3204.00	85.90	356.00	2928.93	458.16 N	5.72 W	458.16

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2553.86 on azimuth 359.32 degrees from wellhead.
Vertical section is from wellhead on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

QUEEN SAND OPERATING COMPANY
 DQSU No. 55, slot #1
 CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 3
 Your ref : MWD
 Last revised : 28-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
3236.00	87.30	355.80	2930.83	490.02 N	4.42	490.02
3267.00	86.90	355.90	2932.40	520.90 N	1.33	520.90
3298.00	89.80	355.60	2933.29	551.80 N	9.40	551.80
3300.00	91.80	354.80	2932.86	582.68 N	6.95	582.68
3300.00	92.40	355.40	2931.72	613.55 N	2.74	613.55
3391.00	91.70	355.00	2930.61	644.42 N	2.60	644.42
3422.00	91.00	356.50	2929.88	675.33 N	5.34	675.33
3454.00	89.80	355.70	2929.66	707.25 N	4.51	707.25
3485.00	88.50	357.00	2930.12	738.18 N	5.93	738.18
3516.00	88.20	357.30	2931.01	769.13 N	1.37	769.13
3547.00	91.10	1.30	2931.20	800.12 N	15.94	800.12
3578.00	91.00	1.40	2930.63	831.11 N	0.46	831.11
3609.00	90.60	1.10	2930.20	862.10 N	1.61	862.10
3640.00	89.60	1.10	2930.14	893.09 N	3.23	893.09
3670.00	91.30	2.40	2929.91	923.07 N	7.13	923.07
3702.00	91.10	2.80	2929.24	955.03 N	1.40	955.03
3733.00	90.70	3.60	2928.75	985.98 N	2.88	985.98
3764.00	90.30	3.90	2928.48	1016.91 N	1.61	1016.91
3770.00	89.00	4.60	2928.67	1047.83 N	4.76	1047.83
3800.00	91.10	6.90	2928.64	1079.66 N	9.73	1079.66
3858.00	91.30	6.70	2927.99	1110.44 N	0.91	1110.44
3889.00	90.70	6.20	2927.45	1141.23 N	2.52	1141.23
3920.00	89.40	3.60	2927.43	1172.12 N	9.38	1172.12
3952.00	90.60	4.50	2927.43	1204.04 N	4.69	1204.04
3984.00	90.60	4.70	2927.09	1235.93 N	0.62	1235.93

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 2553.86 on azimuth 359.32 degrees from wellhead.
 Vertical section is from wellhead on azimuth 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

QUEEN SAND OPERATING COMPANY
 DQSU No. 55, slot #1
 CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 4
 Your ref : MWD
 Last revised : 28-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect
4015.00	90.30	4.90	2926.85	1266.82 N	1.16	1266.82
4046.00	90.60	6.30	2926.60	1297.67 N	4.62	1297.67
4078.00	90.10	7.10	2926.41	1329.45 N	2.95	1329.45
41.00	87.70	8.70	2927.00	1360.15 N	9.30	1360.15
4140.00	87.30	8.80	2928.36	1390.76 N	1.33	1390.76
4171.00	86.90	7.10	2929.92	1421.42 N	5.63	1421.42
4201.00	87.10	6.90	2931.49	1451.16 N	0.94	1451.16
4233.00	85.60	3.90	2933.53	1482.95 N	10.46	1482.95
4265.00	85.50	2.70	2936.01	1514.80 N	3.75	1514.80
4296.00	87.10	2.60	2938.02	1545.70 N	5.17	1545.70
4320.00	89.30	2.50	2938.77	1569.66 N	9.18	1569.66
4360.00	89.50	2.10	2939.19	1609.63 N	1.12	1609.63
4391.00	90.30	2.10	2939.24	1640.60 N	2.58	1640.60
4423.00	92.10	1.80	2938.57	1672.58 N	5.70	1672.58
4454.00	90.50	358.70	2937.87	1703.56 N	11.25	1703.56
4486.00	89.20	356.50	2937.95	1735.53 N	7.99	1735.53
4517.00	89.70	356.20	2938.25	1766.47 N	1.88	1766.47
4548.00	90.50	356.20	2938.20	1797.40 N	2.58	1797.40
45.00	91.40	356.70	2937.68	1828.34 N	3.32	1828.34
4610.00	91.90	357.10	2936.79	1859.28 N	2.07	1859.28
4642.00	89.30	355.00	2936.45	1891.20 N	10.44	1891.20
4673.00	89.60	357.20	2936.75	1922.12 N	7.16	1922.12
4704.00	89.80	355.80	2936.91	1953.06 N	4.56	1953.06
4735.00	89.90	354.50	2936.99	1983.95 N	4.21	1983.95
4766.00	90.40	354.40	2936.91	2014.80 N	1.64	2014.80

All data is in feet unless otherwise stated.
 Coordinates from slot #1 and TVD from rotary table.
 Bottom hole distance is 2553.86 on azimuth 359.32 degrees from wellhead.
 Vertical section is from wellhead on azimuth 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

QUEEN SAND OPERATING COMPANY
 DOSU No. 55, slot #1
 CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 5
 Your ref : MWD
 Last revised : 28-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	
4797.00	90.10	351.30	2936.78	2045.56 N	12.43 E	10.05	2045.56
4828.00	89.90	349.80	2936.78	2076.14 N	7.34 E	4.88	2076.14
4859.00	90.60	349.60	2936.64	2106.64 N	1.80 E	2.35	2106.64
4911.00	89.80	352.10	2936.53	2138.23 N	3.29 W	8.20	2138.23
4922.00	90.80	352.10	2936.37	2168.93 N	7.55 W	3.23	2168.93
4953.00	89.50	352.80	2936.29	2199.66 N	11.62 W	4.76	2199.66
4985.00	91.20	353.90	2936.09	2231.45 N	15.33 W	6.33	2231.45
5017.00	93.50	356.60	2934.78	2263.30 N	17.98 W	11.08	2263.30
5048.00	93.20	356.90	2932.97	2294.20 N	19.73 W	1.37	2294.20
5080.00	93.00	357.30	2931.24	2326.11 N	21.35 W	1.40	2326.11
5110.00	93.10	357.40	2929.64	2356.04 N	22.73 W	0.47	2356.04
5142.00	93.30	357.30	2927.86	2387.95 N	24.21 W	0.70	2387.95
5173.00	92.20	357.90	2926.37	2418.89 N	25.51 W	4.04	2418.89
5205.00	92.30	357.90	2925.11	2450.84 N	26.68 W	0.31	2450.84
5237.00	92.30	358.00	2923.83	2482.80 N	27.82 W	0.31	2482.80
5268.00	92.70	358.00	2922.48	2513.75 N	28.90 W	1.29	2513.75
5308.00	92.70	358.00	2920.59	2553.68 N	30.30 W	0.00	2553.68

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 Presented by Baker Hughes INTEQ