

QUEEN SAND OPERATING COMPANY
OQSU No.54

slot #1
CAPROCK
CHAVES COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MMD
Our ref : svy1323
License :

Date printed : 25-Oct-2001
Date created : 21-Nov-1999
Last revised : 8-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

30-005-21156

SUR: P - 200/S & 33D/E
15-14S-31E

BAL: H - 2706/S & 286/E
15-14S-31E

QUEEN SAND OPERATING COMPANY
DQSU No 54, slot #1
CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : HMD
Last revised : 8-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
100.00	0.33	336.37	100.00	0.26 N	0.12 W	0.33	0.26
200.00	0.06	38.33	200.00	0.57 N	0.20 W	0.31	0.57
300.00	0.40	317.94	300.00	0.87 N	0.40 W	0.39	0.87
400.00	0.45	303.68	400.00	1.35 N	0.95 W	0.12	1.35
500.00	0.34	344.77	499.99	1.86 N	1.36 W	0.29	1.86
600.00	0.38	274.71	599.99	2.17 N	1.77 W	0.42	2.17
700.00	0.86	299.00	699.99	2.57 N	2.76 W	0.54	2.57
800.00	0.84	266.71	799.98	2.89 N	4.14 W	0.47	2.89
900.00	1.11	308.14	899.96	3.45 N	5.63 W	0.73	3.45
1000.00	0.57	314.01	999.95	4.39 N	6.75 W	0.54	4.39
1100.00	1.32	334.17	1099.94	5.77 N	7.61 W	0.81	5.77
1200.00	1.59	351.46	1199.90	8.18 N	8.32 W	0.51	8.18
1300.00	1.50	346.11	1299.87	10.83 N	8.84 W	0.17	10.83
1400.00	1.60	349.67	1399.83	13.47 N	9.41 W	0.13	13.47
1500.00	1.33	333.38	1499.80	15.88 N	10.17 W	0.49	15.88
1600.00	1.37	336.12	1599.77	18.00 N	11.18 W	0.08	18.00
1700.00	0.93	343.14	1699.75	19.88 N	11.90 W	0.46	19.88
1800.00	0.86	341.31	1799.74	21.36 N	12.37 W	0.08	21.36
1900.00	1.00	333.94	1899.73	22.85 N	12.99 W	0.19	22.85
2000.00	0.67	354.38	1999.72	24.22 N	13.43 W	0.44	24.22
2100.00	0.85	339.88	2099.71	25.50 N	13.75 W	0.26	25.50
2200.00	0.78	4.43	2199.70	26.87 N	13.95 W	0.35	26.87
2300.00	0.78	14.62	2299.69	28.21 N	13.72 W	0.14	28.21
2400.00	0.25	20.76	2399.68	29.08 N	13.47 W	0.53	29.08
2500.00	0.26	21.06	2499.68	29.50 N	13.31 W	0.01	29.50
2600.00	0.27	19.49	2599.68	29.94 N	13.15 W	0.01	29.94
2700.00	0.56	15.28	2699.68	30.63 N	12.95 W	0.29	30.63
2724.00	3.90	5.60	2723.66	31.55 N	12.84 W	13.96	31.55
2755.00	8.00	1.43	2754.48	34.76 N	12.68 W	13.29	34.76
2786.00	13.00	359.80	2784.95	40.41 N	12.64 W	16.15	40.41
2816.00	17.40	0.50	2813.90	48.27 N	12.61 W	14.68	48.27
2846.00	22.30	1.30	2842.11	58.45 N	12.44 W	16.36	58.45
2877.00	27.20	2.30	2870.25	71.42 N	12.03 W	15.86	71.42
2906.00	32.00	3.00	2895.46	85.72 N	11.36 W	16.59	85.72
2939.00	36.40	3.30	2922.75	104.24 N	10.34 W	13.34	104.24
2970.00	40.40	4.20	2947.04	123.45 N	9.07 W	13.03	123.45
3002.00	45.10	5.10	2970.63	145.09 N	7.30 W	14.81	145.09
3033.00	49.10	4.90	2991.63	167.71 N	5.32 W	12.91	167.71
3062.00	52.40	4.70	3009.97	190.09 N	3.45 W	11.39	190.09
3092.00	56.60	4.00	3027.39	214.43 N	1.60 W	14.13	214.43
3124.00	59.00	3.20	3044.44	241.46 N	0.10 E	7.79	241.46
3156.00	62.90	3.00	3059.98	269.38 N	1.61 E	12.20	269.38
3186.00	67.40	2.50	3072.58	296.57 N	2.91 E	15.08	296.57
3218.00	71.70	2.00	3083.76	326.52 N	4.09 E	13.52	326.52
3248.00	77.00	1.90	3091.85	355.38 N	5.07 E	17.67	355.38
3272.00	80.50	2.00	3096.53	378.90 N	5.87 E	14.59	378.90
3321.00	83.50	0.90	3103.35	427.41 N	7.10 E	6.51	427.41
3352.00	84.80	359.70	3106.51	458.24 N	7.26 E	5.69	458.24
3384.00	88.60	359.30	3108.35	490.18 N	6.98 E	11.94	490.18

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2506.32 on azimuth 358.99 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

QUEEN SAND OPERATING COMPANY
DQSU No. 54, slot #1
CAPROCK, CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 2

Your ref : MWD

Last revised : 8-Dec-1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
3415.00	91.00	359.80	3108.46	521.18 N	6.74 E	7.91	521.18
3446.00	89.20	357.80	3108.40	552.17 N	6.09 E	8.68	552.17
3477.00	89.60	357.40	3108.73	583.14 N	4.79 E	1.02	583.14
3508.00	91.30	355.70	3108.48	614.08 N	7.92 E	7.76	614.08
3539.00	88.70	355.30	3108.48	644.98 N	0.49 E	8.49	644.98
3570.00	90.60	355.60	3108.67	675.88 N	1.97 W	6.20	675.88
3601.00	90.20	353.30	3108.46	706.73 N	4.96 W	7.53	706.73
3632.00	90.00	352.30	3108.40	737.49 N	8.85 W	3.29	737.49
3663.00	90.20	351.70	3108.35	768.19 N	13.16 W	2.04	768.19
3695.00	89.80	352.80	3108.35	799.89 N	17.48 W	3.66	799.89
3725.00	90.20	350.70	3108.35	829.58 N	21.78 W	7.13	829.58
3756.00	90.30	350.20	3108.21	860.15 N	26.93 W	1.64	860.15
3787.00	90.10	349.60	3108.11	890.67 N	32.36 W	2.04	890.67
3819.00	90.60	350.90	3107.91	922.21 N	37.78 W	4.35	922.21
3850.00	89.60	351.60	3107.86	952.85 N	42.50 W	3.94	952.85
3881.00	90.00	352.80	3107.96	983.56 N	46.70 W	4.08	983.56
3912.00	90.70	352.70	3107.78	1014.31 N	50.62 W	2.28	1014.31
3943.00	90.60	355.30	3107.42	1045.14 N	53.86 W	8.39	1045.14
3975.00	90.10	358.60	3107.23	1077.09 N	55.56 W	10.43	1077.09
4006.00	90.10	0.20	3107.17	1108.08 N	55.88 W	5.16	1108.08
4037.00	89.70	1.70	3107.23	1139.08 N	55.37 W	5.01	1139.08
4068.00	90.10	2.50	3107.28	1170.06 N	54.23 W	2.89	1170.06
4100.00	90.10	5.10	3107.23	1201.98 N	52.11 W	8.12	1201.98
4131.00	91.00	5.90	3106.93	1232.84 N	49.14 W	3.88	1232.84
4163.00	90.10	6.50	3106.62	1264.65 N	45.69 W	3.38	1264.65
4194.00	89.10	5.70	3106.84	1295.47 N	42.39 W	4.13	1295.47
4225.00	89.70	7.10	3107.16	1326.28 N	38.94 W	4.91	1326.28
4257.00	89.70	8.30	3107.33	1357.99 N	34.65 W	3.75	1357.99
4289.00	89.20	9.60	3107.64	1389.60 N	29.67 W	4.35	1389.60
4320.00	88.00	7.80	3108.39	1420.23 N	24.98 W	6.98	1420.23
4352.00	87.70	5.90	3109.60	1451.98 N	21.17 W	6.01	1451.98
4383.00	90.00	6.70	3110.22	1482.78 N	17.77 W	7.86	1482.78
4415.00	90.10	6.40	3110.19	1514.57 N	14.12 W	0.99	1514.57
4446.00	90.10	7.00	3110.14	1545.36 N	10.50 W	1.94	1545.36
4477.00	90.00	8.70	3110.11	1576.07 N	6.27 W	5.49	1576.07
4508.00	90.10	9.70	3110.08	1606.67 N	1.31 W	3.24	1606.67
4540.00	89.10	7.70	3110.30	1638.30 N	3.53 E	6.99	1638.30
4572.00	87.90	3.30	3111.14	1670.13 N	6.59 E	14.25	1670.13
4604.00	86.80	359.40	3112.62	1702.08 N	7.35 E	12.65	1702.08
4635.00	88.10	359.40	3114.00	1733.05 N	7.02 E	4.19	1733.05
4679.00	90.30	357.40	3114.62	1777.02 N	5.79 E	6.76	1777.02
4708.00	91.60	356.60	3114.14	1805.98 N	4.28 E	5.26	1805.98
4740.00	91.70	355.20	3113.21	1837.88 N	1.99 E	4.38	1837.88
4772.00	93.40	354.50	3111.79	1869.72 N	0.88 W	5.74	1869.72
4803.00	93.30	354.40	3109.98	1900.52 N	3.87 W	0.46	1900.52
4835.00	87.80	352.70	3109.67	1932.30 N	7.47 W	17.99	1932.30
4866.00	91.20	354.50	3109.94	1963.10 N	10.92 W	12.41	1963.10
4897.00	89.30	351.80	3109.81	1993.94 N	14.08 W	6.53	1993.94
4930.00	90.20	354.60	3109.95	2026.77 N	17.41 W	3.65	2026.77
4961.00	90.10	356.00	3109.87	2057.66 N	19.95 W	4.53	2057.66

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Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 2506.32 on azimuth 358.99 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 0.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Oct-25-01 01:10P

Oct-25-01 13:46 Bake Hughes INTEQ

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P.05
P.05QUEEN SAND OPERATING COMPANY
DQSU No.54, slot #1
CAPROCK, CHAVES COUNTY, NEW MEXICOSURVEY LISTING Page 3
Your ref : MWD
Last revised : 8-Dec 1999

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect
4993.00	89.70	355.80	3109.93	2089.58 N	22.24 W	1.40
5024.00	90.20	355.70	3109.95	2120.50 N	24.54 W	1.64
5056.00	89.50	356.40	3110.04	2152.42 N	26.74 W	3.09
5087.00	89.50	356.60	3110.31	2183.36 N	28.64 W	0.65
5119.00	89.90	359.20	3110.47	2215.34 N	29.81 W	8.22
5147.00	89.20	357.50	3110.69	2243.32 N	30.62 W	6.57
5179.00	89.10	356.90	3111.17	2275.28 N	32.18 W	1.90
5211.00	89.30	356.50	3111.62	2307.23 N	34.02 W	1.40
5242.00	89.70	357.70	3111.89	2338.18 N	35.59 W	4.08
5274.00	89.60	358.90	3112.08	2370.17 N	36.54 W	3.76
5306.00	89.40	357.90	3112.36	2402.15 N	37.43 W	3.19
5337.00	89.40	356.50	3112.69	2433.12 N	38.95 W	4.52
5368.00	89.70	355.90	3112.93	2464.05 N	41.00 W	2.16
5410.00	89.70	355.90	3113.15	2505.94 N	44.00 W	0.00

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 Bottom hole distance is 2506.32 on azimuth 358.99 degrees from wellhead.
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 Presented by Baker Hughes INTEQ

OCT-25-01 THU 12:36 PM FROM:

TO:

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Oct-25-01 01:10P

Oct-25-01 13:46 Bake Hughes INTEQ

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P.06

P.06

QUEEN SAND OPERATING COMPANY
DQSU No.54,slot #1
CAPROCK,CHAVES COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 8-Dec-1999

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
		3100.00	2450.00N 0.00E	21-Oct-1999

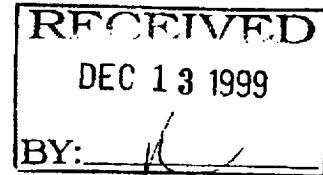
OCT-25-01 THU 12:36 PM FROM:

TO:

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

December 9, 1999

Queen Sand Resources Operating Company
13760 Noel Rd., Ste. 1030, LB 44
Dallas, TX 75240-7336Re: Deviation Report
Drickey Queen #54

Gentlemen:

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

365' - 0.75	2548' - 0.25
853' - 0.75	2786' - 13.00
1317' - 1.25	3156' - 62.90
1630' - 2.00	3798' - 90.30
1937' - 0.50	
2207' - 0.25	

Sincerely,

A handwritten signature in cursive script that reads "Treva Forrester".

Treva Forrester

STATE OF TEXAS)
)
COUNTY OF MIDLAND)The foregoing was acknowledged before me this 9th day of December, 1999 by
Treva Forrester.

MY COMMISSION EXPIRES:

A handwritten signature in cursive script that reads "Rebecca Edwards".

NOTARY PUBLIC