

Haliburton Drilling System

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Survey Report

Date: 06/28/2000

Time: 5:09 pm

Wellpath ID: KEOHANE #1 (SURVEYS)

Date Created: 06/16/2000

Last Revision: 06/28/2000

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.8

Vertical Section Plane: N 45.00 E

Survey Reference: WELLHEAD

Vertical Section Reference: WELLHEAD

Closure Reference: WELLHEAD

TVD Reference: WELLHEAD

HOMESTAKE OIL & GAS
LEA COUNTY, NEW MEXICO
SEC. 26 - T22S - R37E
KEOHANE #1 Unit J

SUR: 1890/S & 2310/E

BHL: 2145/S & 2043/E

30-025-35050

SURVEYS

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft) (ft)		DLS (dg/100ft)
SHL (2890' FSL & 2310' FEL, SEC. 26 - T22S - R37E)								
0.00	0.00	N 0.00 E	0.00	0.00	0.00	0.00 N	0.00 E	0.00
THE FOLLOWING ARE SPERRY-SUN MAG S.S. SURVEYS								
100.00	0.16	S 42.57 W	100.00	100.00	-0.14	0.10 S	0.09W	0.16
200.00	0.07	S 20.17 W	100.00	200.00	-0.33	0.26 S	0.21W	0.10
300.00	0.16	S 46.98 W	100.00	300.00	-0.53	0.42 S	0.33W	0.10
400.00	0.06	S 46.23 W	100.00	400.00	-0.72	0.55 S	0.47W	0.10
500.00	0.14	S 66.17 W	100.00	500.00	-0.89	0.63 S	0.62W	0.09
600.00	0.20	S 55.74 W	100.00	600.00	-1.17	0.78 S	0.88W	0.07
700.00	0.20	S 50.94 W	100.00	700.00	-1.52	0.99 S	1.16W	0.02
800.00	0.21	S 21.76 E	100.00	800.00	-1.76	1.27 S	1.23W	0.24
900.00	0.31	S 1.75 E	100.00	900.00	-2.02	1.71 S	1.15W	0.13
1000.00	0.35	S 52.73 W	100.00	999.99	-2.51	2.16 S	1.38W	0.30
1100.00	0.21	S 34.61 W	100.00	1099.99	-2.99	2.50 S	1.73W	0.16
1200.00	0.04	S 75.93 W	100.00	1199.99	-3.20	2.66 S	1.87W	0.18
1300.00	0.32	N 79.66 E	100.00	1299.99	-3.00	2.62 S	1.63W	0.36
1400.00	0.23	S 74.59 E	100.00	1399.99	-2.67	2.62 S	1.16W	0.15
1500.00	0.24	S 18.92 E	100.00	1499.99	-2.67	2.87 S	0.90W	0.22
1600.00	0.40	S 15.90 E	100.00	1599.99	-2.93	3.41 S	0.74W	0.16
1700.00	0.41	S 38.49 E	100.00	1699.99	-3.14	4.02 S	0.42W	0.16
1800.00	0.37	S 19.06 E	100.00	1799.98	-3.32	4.61 S	0.09W	0.14
1900.00	0.75	N 72.43 E	100.00	1899.98	-2.88	4.72 S	0.64 E	0.83
2000.00	1.16	N 55.67 E	100.00	1999.97	-1.31	3.95 S	2.10 E	0.49

Haliburton Drilling Systems

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Date: 06/28/2000

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Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		DLS (dg/100ft)
2100.00	1.39	N 51.14 E	100.00	2099.94	0.89	2.61 S	3.88 E	0.25
2200.00	1.23	N 48.86 E	100.00	2199.92	3.17	1.15 S	5.63 E	0.17
2300.00	1.06	N 48.68 E	100.00	2299.90	5.17	0.17 N	7.14 E	0.17
2400.00	1.25	N 44.19 E	100.00	2399.88	7.18	1.56 N	8.59 E	0.21
2500.00	1.16	N 46.48 E	100.00	2499.85	9.28	3.04 N	10.09 E	0.10
2600.00	0.93	N 48.82 E	100.00	2599.84	11.10	4.27 N	11.43 E	0.23
2700.00	1.05	N 42.19 E	100.00	2699.82	12.83	5.49 N	12.66 E	0.17
2800.00	0.91	N 45.66 E	100.00	2799.81	14.54	6.72 N	13.84 E	0.15
2900.00	0.53	N 72.06 E	100.00	2899.80	15.74	7.42 N	14.85 E	0.49
3000.00	0.54	N 55.45 E	100.00	2999.79	16.62	7.83 N	15.68 E	0.15
3100.00	0.28	N 75.81 E	100.00	3099.79	17.29	8.15 N	16.30 E	0.29
3200.00	0.19	N 85.79 E	100.00	3199.79	17.63	8.23 N	16.70 E	0.10
3300.00	0.23	N 71.75 E	100.00	3299.79	17.93	8.30 N	17.06 E	0.06
3352.00	0.06	S 28.81 W	52.00	3351.79	18.00	8.31 N	17.14 E	0.53
8-5/8" CASING PT @ 3400' MD (INTERPOLATED POINT)								
3400.00	0.03	S 79.71 W	48.00	3399.79	17.96	8.29 N	17.12 E	0.10
3657.00	0.25	N 6.00 W	257.00	3656.79	18.26	8.83 N	17.00 E	0.10
3910.00	0.50	N 37.00 E	253.00	3909.78	19.70	10.26 N	17.60 E	0.14
4378.00	0.25	N 21.00 E	468.00	4377.77	22.66	12.85 N	19.20 E	0.06
4627.00	0.25	S 65.00 W	249.00	4626.77	22.64	13.12 N	18.90 E	0.19
5036.00	0.50	S 28.00 W	409.00	5035.76	20.10	11.17 N	17.25 E	0.08
5285.00	0.50	S 29.00 W	249.00	5284.75	18.01	9.26 N	16.22 E	0.00
5531.00	0.50	S 12.00 E	246.00	5530.75	16.40	7.27 N	15.92 E	0.14
5783.00	0.25	S 12.00 E	252.00	5782.74	15.50	5.66 N	16.26 E	0.10
5936.00	0.30	S 86.00 E	153.00	5935.74	15.58	5.30 N	16.73 E	0.22
BHA #1 @ 5975' 6 1/2" SLO-SPEED 1.5° BEND - F47H								
5967.00	0.40	N 64.80 E	31.00	5966.74	15.74	5.34 N	16.91 E	0.65
5998.00	1.20	N 42.60 E	31.00	5997.73	16.16	5.63 N	17.23 E	2.72
6030.00	2.50	N 37.70 E	32.00	6029.72	17.19	6.43 N	17.88 E	4.09
6062.00	3.60	N 37.40 E	32.00	6061.67	18.88	7.78 N	18.92 E	3.44
6092.00	4.70	N 41.40 E	30.00	6091.59	21.04	9.45 N	20.30 E	3.79
6124.00	5.40	N 44.60 E	32.00	6123.47	23.85	11.50 N	22.23 E	2.36
6155.00	6.40	N 42.30 E	31.00	6154.30	27.04	13.82 N	24.41 E	3.31
6187.00	7.00	N 45.40 E	32.00	6186.08	30.77	16.51 N	27.00 E	2.19
6219.00	7.60	N 43.60 E	32.00	6217.82	34.83	19.28 N	29.98 E	2.26
6251.00	8.30	N 41.70 E	32.00	6249.52	39.24	22.17 N	33.33 E	2.24

Measured Depth (ft)	Incl (deg.)	Drift Dir. (qdeg)	Course Length (ft)	TVD (ft)	Vertical Section (ft)	T O T A L Rectangular Offsets (ft)		DLS (dg/100ft)
6281.00	9.20	N 48.60 E	30.00	6279.17	43.80	25.16 N	36.78 E	3.05
6313.00	10.10	N 45.10 E	32.00	6310.71	49.15	28.83 N	40.68 E	3.36
6345.00	11.10	N 43.70 E	32.00	6342.17	55.04	33.04 N	44.80 E	3.23
6375.00	12.00	N 43.30 E	30.00	6371.56	61.04	37.40 N	48.93 E	3.01
6407.00	13.20	N 41.70 E	32.00	6402.79	68.02	42.55 N	53.65 E	3.91
6438.00	14.00	N 41.60 E	31.00	6432.92	75.29	47.99 N	58.49 E	2.58
6469.00	14.10	N 41.20 E	31.00	6462.99	82.81	53.64 N	63.47 E	0.45
6501.00	13.40	N 40.70 E	32.00	6494.08	90.39	59.38 N	68.45 E	2.22
6532.00	13.30	N 40.20 E	31.00	6524.24	97.53	64.83 N	73.10 E	0.49
6563.00	14.00	N 40.30 E	31.00	6554.36	104.82	70.41 N	77.82 E	2.26
6595.00	15.00	N 41.90 E	32.00	6585.34	112.81	76.45 N	83.09 E	3.37
6627.00	15.30	N 43.30 E	32.00	6616.23	121.17	82.60 N	88.75 E	1.48
6658.00	15.40	N 42.30 E	31.00	6646.12	129.37	88.62 N	94.33 E	0.91
6689.00	15.00	N 41.90 E	31.00	6676.04	137.48	94.65 N	99.78 E	1.33
6721.00	14.80	N 41.70 E	32.00	6706.96	145.70	100.79 N	105.26 E	0.65
6784.00	14.20	N 41.60 E	63.00	6767.96	161.45	112.57 N	115.75 E	0.95
6816.00	14.20	N 41.20 E	32.00	6798.98	169.28	118.46 N	120.94 E	0.31
6847.00	13.90	N 40.30 E	31.00	6829.05	176.79	124.16 N	125.85 E	1.20
6879.00	13.90	N 43.70 E	32.00	6860.12	184.46	129.87 N	130.99 E	2.55
6910.00	14.10	N 44.00 E	31.00	6890.19	191.96	135.28 N	136.19 E	0.69
6942.00	14.10	N 44.20 E	32.00	6921.23	199.75	140.88 N	141.61 E	0.15
6972.00	14.10	N 44.40 E	30.00	6950.33	207.06	146.11 N	146.72 E	0.16
7035.00	13.60	N 44.00 E	63.00	7011.49	222.14	156.92 N	157.23 E	0.81
7067.00	13.40	N 43.70 E	32.00	7042.61	229.61	162.31 N	162.41 E	0.66
7097.00	13.90	N 44.40 E	30.00	7071.76	236.69	167.39 N	167.33 E	1.76
7129.00	14.00	N 44.70 E	32.00	7102.82	244.40	172.89 N	172.74 E	0.39
7160.00	14.50	N 44.60 E	31.00	7132.87	252.03	178.32 N	178.10 E	1.61
7191.00	15.30	N 46.70 E	31.00	7162.82	260.00	183.89 N	183.81 E	3.11
INTERPOLATED POINT - TARGET								
7229.51	14.93	N 47.43 E	38.51	7200.00	270.03	190.73 N	191.16 E	1.08
7253.00	14.70	N 47.90 E	23.49	7222.71	276.03	194.78 N	195.60 E	1.10
7315.00	14.80	N 49.50 E	62.00	7282.67	291.79	205.19 N	207.46 E	0.68
LAST MWD SURVEY								
7379.00	14.50	N 50.00 E	64.00	7344.59	307.92	215.65 N	219.81 E	0.51
TOTAL SURVEY @ 7566' MD-ASSUMED DIRECTION N50.00E								
7566.00	14.00	N 50.00 E	187.00	7525.83	353.77	245.24 N	255.07 E	0.27

DISTRICT I
P.O. Box 1982, Hobbs, NM 88241-1982

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35050	Pool Code 62700	Pool Name WANTZ-ABO
Property Code 25920	Property Name KEOHANE	Well Number 1
OGED No. 163123	Operator Name HOME-STAKE OIL & GAS COMPANY	Elevation 3316

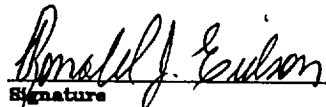
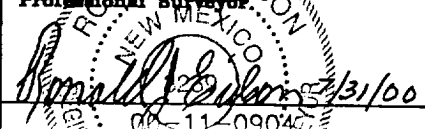
Surface Location

UL or lot No. J	Section 26	Township 22 S	Range 37 E	Lot Idn	Feet from the 1890	North/South line SOUTH	Feet from the 2310	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

						OPERATOR CERTIFICATION I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.  Signature RONALD J. EIDSON Printed Name AGENT Title 7/31/2000 Date	
						SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 23, 2000 Date Surveyed Signature of Surveyor Professional Surveyor  Certificate No. 3239 12641	
GEODETIC COORDINATES NAD 27 NMEZ Y=497017.6 X=870888.6		BHL + Surface 1890'		2310'			