

20 J E N - 1 1 F 1 0 E A T L E N D C O N F I D I O

JEPPE CHOW SURVEY

Directional Survey Report

1998

DEFEES

MARSH

Well Number	:	TEH FEDERAL 1-11
Well Location	:	FOOY CO. R.H.
Job Number	:	DEK100028
Location Latitude	:	31.241
Survey Date	:	12-01-2008
S.D.L. Personnel	:	ARDEL DUDASA
Length Units	:	Feet
North Reference	:	GRID North
Grid Correction	:	-0.23 Degrees
Survey Depth Zero	:	REF
Proposed Direction	:	02.55
Calculation Method	:	Minimum Curvature

Remarks : The FEDERAL Survey will be called definitive

S. I. L. N. I. F. I. D. S. R. T. I. L. I. N. G. C. O. N. F. I. D. I.

Outran 30m. 67
for
HAFSLN

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Well No.: SEA FIDTRAG 1.41

Date: 12-06-2006

Jet No.: 52K10032LB

OFFID

Proposed: 87.75

Depth (Feet)	T.S.D. (Feet)	W.S. (Feet)	Int. Deg.	Grain Deg.	Latitude (Feet)	Departure (Feet)	Drift /100
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0.00	0.00	0.00	0.00	359.77	0.00	0.00	0.00
100.00	100.00	-0.04	0.00	345.73	-0.02	-0.04	0.00
200.00	200.00	-0.06	0.00	30.10	-0.03	-0.04	0.11
300.00	300.00	0.16	0.25	42.86	0.12	0.13	0.12
400.00	400.00	0.40	0.12	50.15	0.41	0.38	0.13
500.00	500.00	0.33	0.19	240.10	0.42	0.31	0.31
600.00	600.00	0.04	0.20	224.90	0.23	0.03	0.03
700.00	700.00	-0.17	0.34	185.33	-0.36	-0.14	0.40
800.00	772.99	-0.14	0.50	169.92	-1.33	-0.69	0.16
900.00	899.99	0.02	0.48	145.25	-2.24	0.10	0.11
1000.00	999.99	0.20	0.58	157.59	-3.11	0.49	0.12
1100.00	1089.96	0.63	0.38	143.33	-3.84	0.72	0.23
1200.00	1199.98	1.17	0.39	77.50	-4.03	1.31	0.42
1300.00	1299.97	1.23	0.27	45.50	-3.72	1.01	0.21
1400.00	1199.97	1.91	0.21	16.28	-3.45	2.03	0.13
1500.00	1399.97	2.02	0.21	15.36	-3.10	2.13	0.00
1600.00	1599.97	2.09	0.17	0.90	-2.69	2.10	0.08
1700.00	1699.97	1.97	0.30	327.25	-2.23	2.09	0.17
1800.00	1799.97	1.70	0.12	305.13	-1.91	1.72	0.16
1900.00	1899.97	1.81	0.20	283.11	-1.76	1.47	0.06
2000.00	1999.97	1.19	0.09	314.96	-1.65	1.25	0.12
2100.00	2099.97	0.04	0.23	281.79	-1.56	1.00	0.06
2200.00	2199.97	0.71	0.06	232.80	-1.35	0.77	0.21
2300.00	2299.97	0.10	0.12	279.91	-1.52	0.63	0.10
2400.00	2399.97	0.24	0.20	247.86	-1.64	0.30	0.18
2500.00	2499.97	-0.23	0.23	340.15	-1.88	-0.16	0.07
2600.00	2599.93	-0.74	0.36	202.94	-2.21	-0.62	0.05
2700.00	2659.96	-1.00	0.39	200.09	-2.63	1.11	0.08
2800.00	2799.96	-1.58	0.42	206.36	-3.15	-1.02	0.11
2900.00	2875.96	-2.01	0.41	212.42	-3.72	-1.82	0.13
3000.00	2999.93	-2.33	0.42	199.39	-4.40	2.22	0.14
3100.00	3099.95	-2.65	0.44	199.75	-5.10	-2.47	0.00
3200.00	3199.95	-2.92	0.44	198.70	-5.83	-2.71	0.12
3300.00	3299.95	-3.18	0.43	197.40	-6.59	2.90	0.01
3400.00	3399.93	-3.44	0.42	195.52	-7.39	3.12	0.03
3500.00	3499.94	-3.70	0.35	200.19	-8.20	3.41	0.14
3600.00	3599.94	-4.04	0.41	212.77	-8.52	-3.73	0.06
3700.00	3699.93	-4.38	0.31	233.12	-9.04	-4.11	0.19
3800.00	3799.97	-4.92	0.35	214.27	-9.40	-4.76	0.14
3900.00	3899.93	-5.20	0.33	208.33	-9.93	-4.85	0.01

S C I E N T I F I C O N L I N E C O R R E C T S

Bottom Survey for MAPLE3

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Well No.: 104 FEDERAL 10

Date: 11-09-2006

Job No.: 02K0003028

Depth

Proposed: 87.57

Depth	1.910	V.S.	100	Azimuth	Latitude	Longitude	Depth
(Feet)	(Feet)	(Feet)	deg.	deg.	(Feet)	(Feet)	(Feet)

4000.00	3979.93	-5.12	0.27	152.76	-10.31	5.12	0.13
4100.00	4099.93	-5.10	0.32	150.09	-10.53	-5.11	0.10
4200.00	4199.92	-5.53	0.46	148.13	-10.80	-6.75	0.10
4300.00	4299.92	-7.99	0.77	145.41	-10.98	-7.31	0.44
4303.00	4302.92	-7.72	0.33	152.33	-10.95	-7.54	16.27

The Horizontal Displacement (in Feet) at
 Measured Depth 4303.00 is 13.12 in a Direction of 213.99 degrees.