

SUR: X/P- 06-21s-36e, 1275/S & 1275/E
BHL: Q/I-06-21s-36e, 2485/S & 779/E
API # 30-025-30512

CHEVRON U.S.A.
EMSU NO. 643

slot #1
EUNICE MONUMENT SOUTH UNIT
LEA COUNTY, NEW MEXICO

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

by
Baker Hughes INTEQ

Your ref :
Our ref : svy685
License :

Date printed : 17-Jun-96
Date created : 11-Jun-96
Last revised : 14-Jun-96

Field is centred on 0.000,0.000,0.00000,+
Structure is centred on 0.000,0.000,0.00000,N

Slot location is n0 0 0.000,w4 29 18.843
Slot Grid coordinates are N 0.000, E 0.000
Slot local coordinates are 0.00 N 0.00 E
Reference North is Grid North

06-17-1996 01.14PM

FROM

BAKER HUGHES INTEQ MIDLAND

TO

06/17/96

1.00

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	0.00
100.00	0.24	308.53	100.00	0.13 N	0.16 W	0.24	0.07
200.00	0.32	299.46	200.00	0.40 N	0.57 W	0.09	0.19
300.00	0.27	358.81	300.00	0.77 N	0.81 W	0.29	0.46
400.00	0.35	312.27	400.00	1.20 N	1.04 W	0.26	0.80
500.00	0.13	269.72	500.00	1.41 N	1.38 W	0.27	0.88
600.00	0.06	20.44	600.00	1.46 N	1.47 W	0.16	0.90
700.00	0.20	2.03	699.99	1.69 N	1.45 W	0.15	1.13
800.00	0.22	334.27	799.99	2.04 N	1.52 W	0.10	1.44
900.00	0.23	309.59	899.99	2.34 N	1.76 W	0.10	1.64
1000.00	0.21	287.94	999.99	2.52 N	2.08 W	0.08	1.71
1100.00	0.40	336.61	1099.99	2.90 N	2.39 W	0.31	1.96
1200.00	0.34	340.32	1199.99	3.50 N	2.64 W	0.07	2.46
1300.00	0.88	14.65	1299.98	4.53 N	2.54 W	0.63	3.46
1400.00	1.22	35.32	1399.97	6.13 N	1.73 W	0.50	5.24
1500.00	1.48	36.51	1499.94	8.03 N	0.36 W	0.26	7.48
1600.00	1.62	32.71	1599.90	10.26 N	1.17 E	0.18	10.08
1700.00	1.39	22.81	1699.87	12.56 N	2.41 E	0.35	12.66
1800.00	1.30	26.14	1799.84	14.70 N	3.38 E	0.11	15.00
1900.00	1.43	20.76	1899.81	16.88 N	4.32 E	0.18	17.37
2000.00	1.34	29.23	1999.78	19.08 N	5.34 E	0.22	19.77
2100.00	1.48	20.96	2099.75	21.30 N	6.37 E	0.24	22.22
2200.00	1.79	29.36	2199.71	23.87 N	7.60 E	0.40	25.04
2300.00	2.04	44.95	2299.66	26.49 N	9.62 E	0.57	28.18
2400.00	2.42	53.16	2399.58	29.02 N	12.57 E	0.50	31.53

All data is in feet unless otherwise stated
 Coordinates from structure and TVD from wellhead.
 Vertical section is from N 0.00 E 0.00 on azimuth 18.95 degrees.
 Declination is 0.00 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

06-17-1996 01:14PM KLM BAKER HUGHES INTEQ

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	2.95	49.10	2499.47	31.97 N	16.20 E	0.56	35.50
2600.00	2.91	54.25	2599.34	35.13 N	20.21 E	0.26	39.79
2700.00	2.41	53.97	2699.23	37.85 N	23.97 E	0.50	43.58
2800.00	1.95	49.68	2799.16	40.19 N	26.96 E	0.48	46.77
2900.00	1.82	49.79	2899.11	42.32 N	29.48 E	0.13	49.60
3000.00	1.67	47.02	2999.06	44.34 N	31.76 E	0.17	52.25
3100.00	1.46	47.26	3099.02	46.19 N	33.75 E	0.21	54.65
3200.00	1.36	37.36	3198.99	48.00 N	35.41 E	0.26	56.89
3300.00	1.61	38.30	3298.96	50.04 N	37.00 E	0.25	59.34
3400.00	1.39	48.01	3398.92	51.95 N	38.76 E	0.34	61.72
3500.00	1.28	53.46	3498.90	53.43 N	40.56 E	0.16	63.70
3600.00	1.29	48.80	3598.87	54.84 N	42.31 E	0.10	65.60
3700.00	1.16	44.87	3698.85	56.30 N	43.88 E	0.16	67.49
3795.00	0.95	51.64	3793.83	57.47 N	45.17 E	0.25	69.02
3855.00	6.40	9.50	3853.69	61.08 N	46.12 E	9.55	72.75
3860.00	9.20	10.00	3858.64	61.75 N	46.23 E	56.02	73.42
3865.00	12.30	9.00	3863.56	62.67 N	46.39 E	62.11	74.34
3870.00	15.40	9.20	3868.41	63.85 N	46.58 E	62.01	75.52
3875.00	18.60	9.30	3873.19	65.29 N	46.81 E	64.00	76.96
3880.00	22.10	8.50	3877.88	67.01 N	47.08 E	70.22	78.67
3885.00	25.70	6.90	3882.45	69.02 N	47.35 E	73.15	80.65
3890.00	29.50	6.00	3886.88	71.32 N	47.61 E	76.45	82.92
3900.00	36.00	4.60	3895.29	76.70 N	48.10 E	65.44	88.17
3910.00	42.30	4.30	3903.04	83.00 N	48.59 E	63.03	94.28
3920.00	48.10	1.70	3910.08	90.08 N	48.95 E	60.85	101.09

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 Vertical section is from N 0.00 E 0.00 on azimuth 18.95 degrees.
 Declination is 0.00 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

CHEVRON U.S.A.
 EMSU NO. 643, slot #1
 EUNICE MONUMENT SOUTH UNIT, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
 Your ref :
 Last revised : 14-Jun-96

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
3930.00	53.50	358.60	3916.40	97.82 N	48.96 E	59.09	108.42
3940.00	59.00	358.50	3921.95	106.13 N	48.76 E	55.01	116.21
3950.00	65.20	1.40	3926.63	114.96 N	48.75 E	67.08	124.56
3960.00	70.90	3.40	3930.37	124.22 N	49.14 E	59.94	133.45
3970.00	77.50	5.10	3933.09	133.82 N	49.86 E	67.99	142.75
3990.00	87.40	2.50	3935.71	153.57 N	51.17 E	51.14	161.86
4017.00	88.40	1.00	3936.70	180.54 N	51.99 E	6.67	187.64
4048.00	91.80	1.50	3936.65	211.53 N	52.67 E	11.08	217.17
4138.00	94.20	358.20	3931.94	301.39 N	52.43 E	4.53	302.08
4200.00	95.10	0.30	3926.91	363.17 N	51.62 E	3.67	360.25
4293.00	96.80	2.40	3917.27	455.64 N	53.80 E	2.90	448.41
4354.00	96.20	4.40	3910.36	516.13 N	57.40 E	3.40	506.80
4445.00	92.60	2.40	3903.38	606.69 N	62.77 E	4.52	594.19
4508.00	90.50	0.80	3901.68	669.63 N	64.53 E	4.19	654.30
4571.00	90.50	5.50	3901.13	732.52 N	67.99 E	7.46	714.90
4633.00	90.80	13.90	3900.42	793.57 N	78.43 E	13.56	776.03
4663.00	94.20	17.50	3899.12	822.42 N	86.53 E	16.50	805.95
4693.00	93.80	23.00	3897.02	850.48 N	96.89 E	18.34	835.85
4723.00	93.40	28.60	3895.14	877.43 N	109.91 E	18.68	865.57
4785.00	93.60	39.80	3891.34	928.53 N	144.64 E	18.03	925.18
4830.00	93.20	48.50	3888.66	960.73 N	175.90 E	19.32	965.78
4925.00	92.50	51.60	3883.94	1021.65 N	248.63 E	3.34	1047.02
4963.00	92.60	51.80	3882.25	1045.18 N	278.42 E	0.59	1078.95
5023.00	92.60	52.00	3879.52	1082.16 N	325.59 E	0.33	1129.24
5085.00	92.10	52.30	3876.98	1120.17 N	374.50 E	0.94	1181.08

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 Coordinates from structure and TVD from wellhead.
 Vertical section is from N 0.00 E 0.00 on azimuth 18.95 degrees.
 Declination is 0.00 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

06-17-1996 01:13PM FROM BAKER HUGHES INTEQ MIDLAN LU 06/17/96 P.05

CHEVRON U.S.A. SURVEY LISTING Page 4
 EMSU NO. 643, slot #1 Your ref :
 EUNICE MONUMENT SOUTH UNIT, LEA COUNTY, NEW MEXICO Last revised : 14-Jun-96

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
5146.00	91.80	53.10	3874.91	1157.12 N	423.00 E	1.40	1231.77
5178.00	91.70	53.80	3873.93	1176.16 N	448.69 E	2.21	1258.13
5209.00	92.00	54.00	3872.93	1194.42 N	473.73 E	1.16	1283.52
5236.00	92.30	54.40	3871.92	1210.20 N	495.61 E	1.85	1305.56

PROJECTION TO TD

All data is in feet unless otherwise stated
 Coordinates from structure and TVD from wellhead.
 Vertical section is from N 0.00 E 0.00 on azimuth 18.95 degrees.
 Declination is 0.00 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

CHEVRON U.S.A.
 EMSU NO. 643, slot #1
 EUNICE MONUMENT SOUTH UNIT, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5

Your ref :
 Last revised : 14-Jun-96

MD	TVD	Rectangular Coords.	Comments in wellpath =====
			Comment
5236.00	3871.92	1210.20 N 495.61 E	PROJECTION TO TD

All data is in feet unless otherwise stated
 Coordinates from structure and TVD from wellhead.
 Bottom hole distance is 1307.75 on azimuth 22.27 degrees from wellhead.
 Vertical section is from N 0.00 E 0.00 on azimuth 18.95 degrees.
 Declination is 0.00 degrees, Convergence is 0.00 degrees.
 Calculation uses the minimum curvature method.
 Presented by Baker Hughes INTEQ

06-17-1996 01:16PM

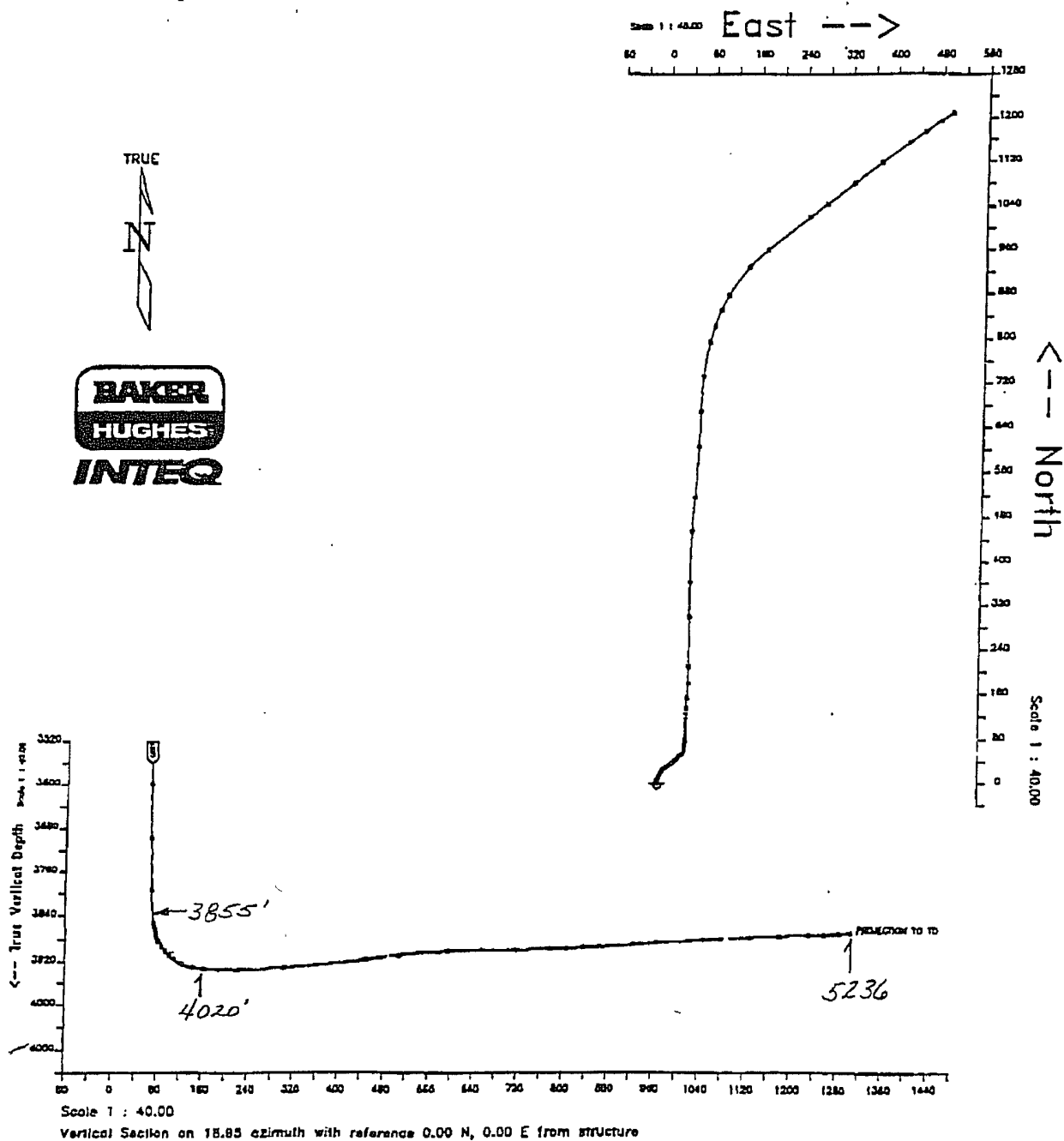
FROM BAKER HUGHES INTEQ TULSA IN

6877657 P.07

Structure : EMSU NO. 643
Field : EUNICE MONUMENT SOUTH UNIT Location : LEA COUNTY, NEW MEXICO

Structure : EMSU NO. 643

Field : EUNICE MONUMENT SOUTH UNIT Location : LEA COUNTY, NEW MEXICO



Chevron U.S. A. Inc.
P.O. Box 1150
Midland, Texas 79702

Operations/Field Support
Room 4141C
Fax number 915-687-7871

Date: 6/5/96

To: Bart Welch
Baker Hughes Inteq
Locations: _____

From: John Fricke
Chevron
687-7104

FAX NUMBER: 694-5648

No. of pages (including this page): _____

COMMENTS: Bart, here are the coordinates for plotting
Zone 2A on your vertical section. Revised K.O.
point is 3850'.

@ Horizontal scale of 0' (EMSU # 643 vertical well path)

TVD of Top of Zone 2A = 3897'

TVD of Bottom of Zone 2A = 3950'

@ Horizontal scale of 1185' (T.D. MD)

TVD of Top of Zone 2A = 3860.4

TVD of Bottom of Zone 2A = 3911.4

size? scale?



CHEVRON U.S.A.

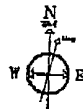
Structure : EMSU NO. 643

Field : EUNICE MONUMENT SOUTH UNIT Location : LEA COUNTY, NEW MEXICO



EMSU
ASSET MANAGEMENT
TEAM

WHAT VERBASE WOULD
CHEVRON LIKE TO SEE?



Magetic North is 0.25 degrees East of True North
To convert magnetic from magnetic to TRUE add 0.25 deg

Project Time - 6 Days 6/9/96 to 6/14/96

Kick Off Method - Cement Plug

BUR - 63.9 Deg./100'

Lateral Length - 1784' Closure

Hole Size - 4.75"

Survey Method - Short Radius NaviTrak

Motor System - Ultra Series

PLANNED COST - \$274,000

ACTUAL COST - \$265,000

IP - 37 bopd 809 bopd 289 Mscfpd

