



Survey Report

INTEQ

MIN. CURVATURE CALCULATIONS (SPE-3362)

OPERATOR: ENERGEN RESOURCES
WELL: LAMBIRTH "A" #3
LOCATION: ROOSEVELT CO. N.M.

START: 3/17/2003
JOB #: 451377

PROPOSED DIRECTION: 55.13

TIE IN: SDI GYRO

MAGNETIC TO GRID: 8.67

STATION NUMBER	SURVEY DEPTH	INC	TRUE AZM	TVD	N-S	E-W	VERT. SECTION	DLS/ 100	BR/ 100
TIE IN	7720	0.80	222.03	7719.57	-26.98	22.02	2.6		
1	7730	2.8	51.0	7729.57	-26.88	22.16	2.82	35.9	20.0
2	7741	7.6	52.3	7740.52	-26.26	22.95	3.81	43.6	43.6
3	7751	13.4	53.0	7750.35	-25.16	24.40	5.63	58.0	58.0
4	7760	19.3	50.5	7758.98	-23.59	26.38	8.16	66.0	65.6
5	7770	25.8	48.7	7768.21	-21.10	29.29	11.97	65.4	65.0
6	7787	34.6	47.7	7782.89	-15.39	35.66	20.45	51.8	51.8
7	7799	41.5	46.6	7792.33	-10.36	41.07	27.77	57.8	57.5
8	★ 7809	47.4	45.6	7799.47	-5.51	46.11	34.68	59.4	59.0
9	7818	52.8	46.3	7805.24	-0.71	51.07	41.50	60.3	60.0
10	7833	61.0	49.1	7813.42	7.73	60.37	53.95	56.9	54.7
11	7850	70.4	50.5	7820.41	17.71	72.19	69.36	55.8	55.3
TD-BIT	7892	93.7	50.5	7826.18	43.98	104.08	110.53	55.5	55.5
EOB	7925	97.0	50.5	7823.10	64.85	129.44	143.28	10.0	10.0
EOH	7955	97.0	50.5	7819.45	83.78	152.43	172.96	0.0	0.0
EOD	8025	90.0	50.5	7815.18	128.15	206.35	242.56	10.0	-10.0
TD	8185	90.0	50.5	7815.18	229.84	329.88	402.05	0.0	0.0

CURVE
TD 7892

OR 23rd

COPIES
5/17/03
Per [illegible]



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WELL: LAMBIRTH "A" #3
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6	7787	31.3	52.3	7783.14	-15.95	35.57	20.07	33.9	32.4
7	7799	36.4	53.7	7793.10	-11.93	40.91	26.74	43.0	42.5
8	★ 7809	41.7	55.1	7800.86	-8.27	46.03	33.04	53.7	53.0
BIT	7849	62.9	55.0	7825.19	9.76	71.83	64.51	53.0	53.0
EOB	7898	97.0	0.0	7834.30	50.84	91.75	104.34	128.9	69.6

CHECK SHOTS

BAD spot AT SHALE 7782
7799

7851 DEEPEST POINT

Energen Resources

Structure : LAMBIRTH A #3

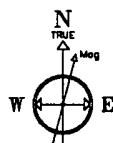
Slot : slot #1

Field : PETERSON

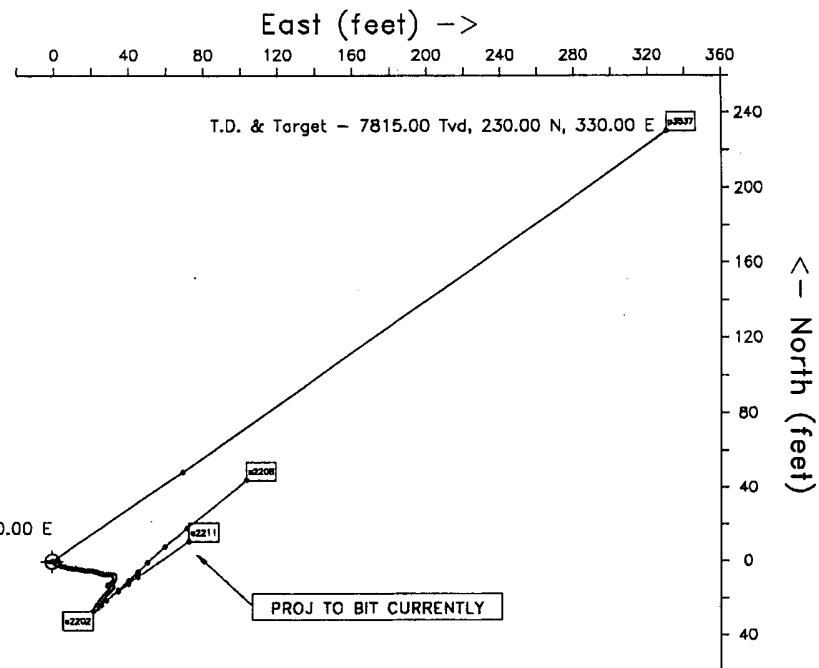
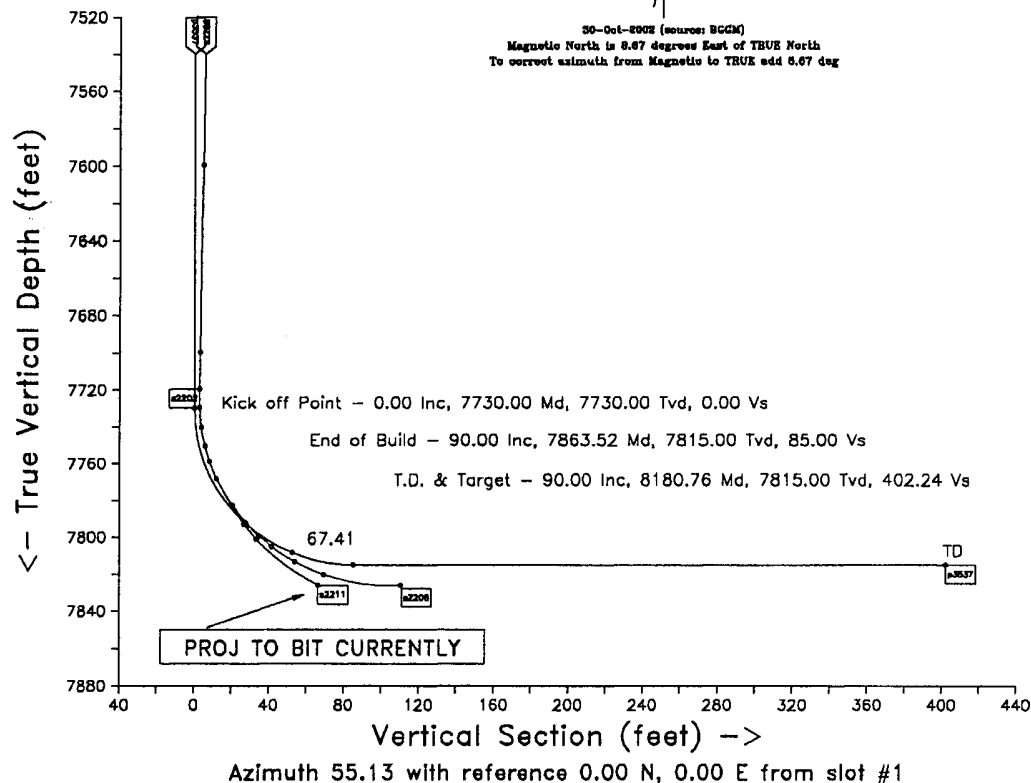
Location : ROSSEVELT CO., NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	0.00	0.00	55.12	0.00	0.00	0.00	0.00	0.00
KOP	7730.00	0.00	55.12	7730.00	0.00	0.00	0.00	0.00
End of Build	7863.52	90.00	55.12	7815.00	48.60	69.73	85.00	67.41
T.D. & Target TD	8180.76	90.00	55.12	7815.00	230.00	330.00	402.24	0.00



30-Oct-2002 (source: BGCIM)
Magnetic North is 8.67 degrees East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.67 deg



Created by adryanm
Date plotted : 26-Mar-2003
Plot Reference is P0 2DJ RC / SJ .
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
ENLAMPVA
--- Baker Hughes INTEQ ---

Energen Resources

Structure : LAMBIRTH A #3

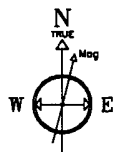
Slot : slot #1

Field : PETERSON

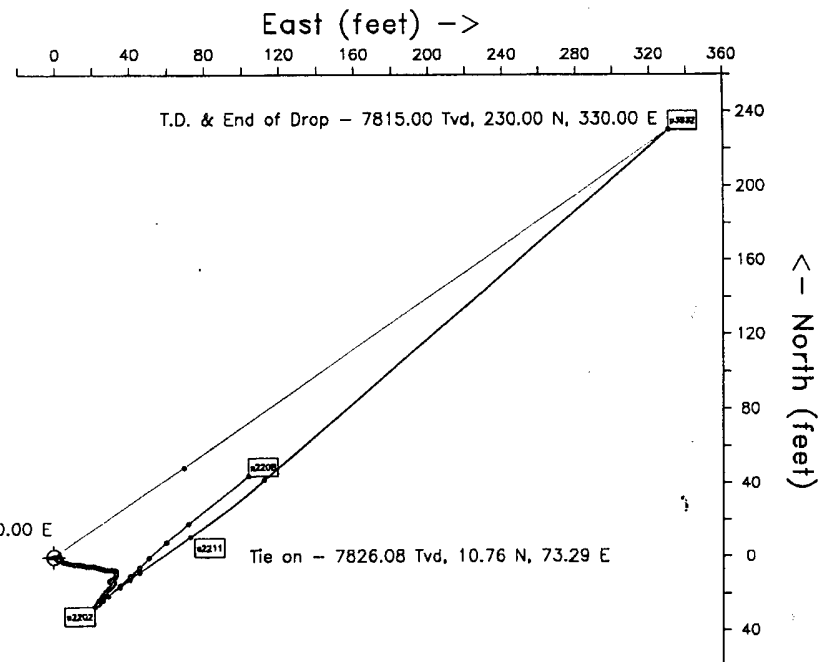
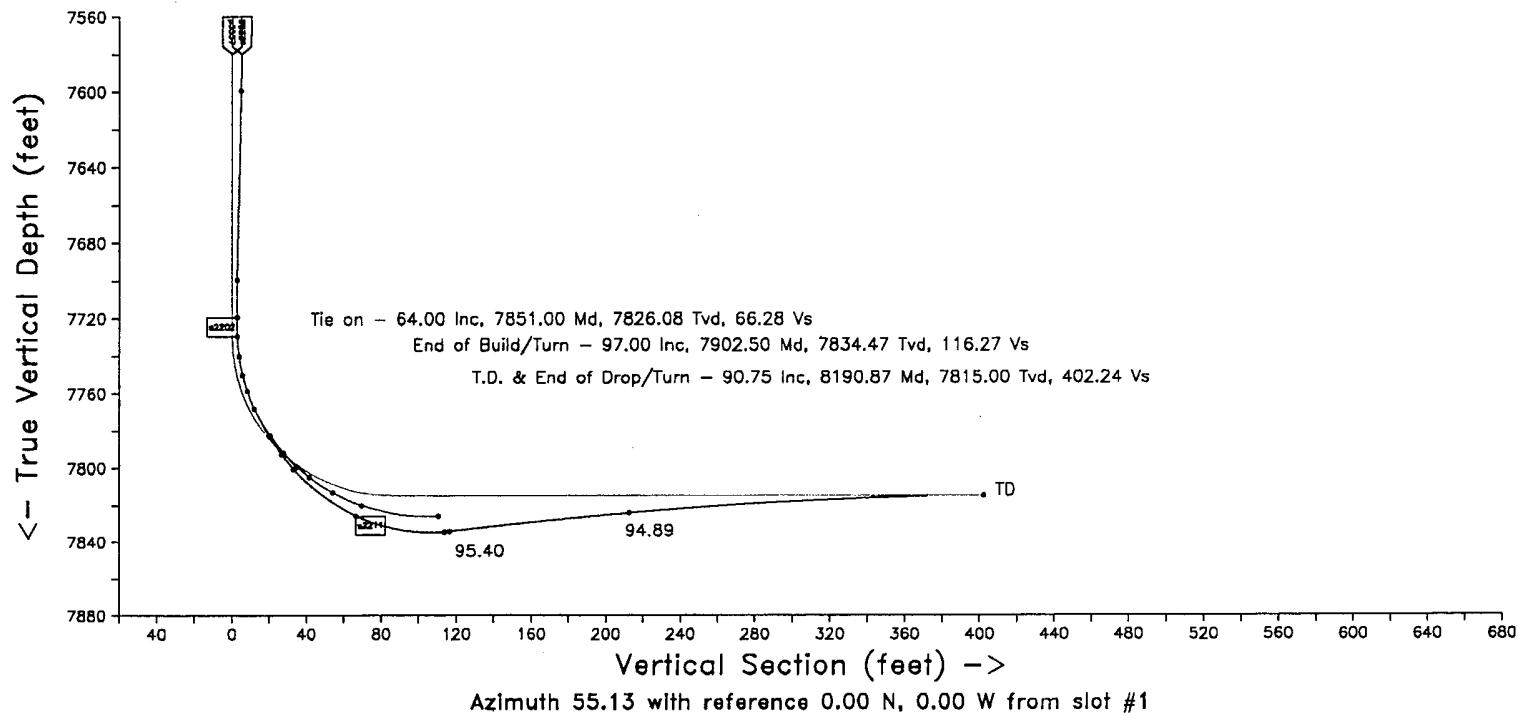
Location : ROSSEVELT CO., NEW MEXICO

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
Tie on	7851.00	64.00	55.00	7826.08	10.76	73.29	66.28	0.00
End of Build/Turn	7902.50	97.00	49.08	7834.47	41.68	112.69	116.27	65.04
T.D. & End of Drop/Turn	8190.87	90.75	49.09	7815.00	230.00	330.00	402.24	2.17



30-Oct-2003 (source: BCGM)
Magnetic North is 5.87 degrees East of TRUE North
To correct azimuth from Magnetic to TRUE add 5.87 deg



Created by adryanm
Date plotted : 26-Mar-2003
Plot Reference is PLAN 2 .
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
ENPLN2
--- Baker Hughes INTEQ ---