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Survey File: lusk

Date: 12-23-01
Time: 00:02:24

Chevron Texaco

Lea Co. NM.

Lusk 32 State #1
Patterson #501All depths referenced to RKB
All directions referenced to True North
FSE: D. CHAPPELL & M. BohannanSurvey Reference Point : 184.0
Local Grid Offset : 0.0Drift Correction Method: Constant Rate from initial to final sighting
Survey Computation Method: Minimum Curvature

Target Direction: 0.00

FINAL DATA (INRUN)

Measured Depth (feet)	Course Inclination	Course Direction	Vertical Depth (feet)	Rectangular Coordinates		Vertical Section	Dogleg Severity (per100)
				N/S	E/W		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	1.10	270.56	199.98	0.02	-1.92	0.02	0.55
400.00	1.04	288.42	399.95	0.61	-5.57	0.61	0.17
600.00	1.18	268.77	599.91	1.14	-9.36	1.14	0.20
800.00	0.72	283.29	799.88	1.39	-12.63	1.39	0.26
1000.00	0.59	295.97	999.87	2.13	-14.79	2.13	0.10
1200.00	0.97	295.40	1199.85	3.32	-17.26	3.32	0.19
1400.00	0.61	317.71	1399.83	4.83	-19.51	4.83	0.23
1600.00	0.42	271.80	1599.82	5.64	-20.97	5.64	0.22
1800.00	0.36	352.52	1799.81	6.30	-21.79	6.30	0.26
2000.00	0.40	52.45	1999.81	7.34	-21.32	7.34	0.19
2200.00	0.32	124.62	2199.81	7.45	-20.31	7.45	0.21
2400.00	0.56	68.61	2399.80	7.48	-18.94	7.48	0.23
2600.00	1.01	71.75	2599.78	8.39	-16.35	8.39	0.23
2800.00	0.90	356.31	2799.75	10.52	-14.77	10.52	0.59
3000.00	1.27	336.61	2999.71	14.13	-15.75	14.13	0.26
3200.00	1.65	329.60	3199.65	18.64	-18.08	18.64	0.21
3400.00	1.59	330.44	3399.57	23.52	-20.90	23.52	0.03
3600.00	1.55	332.45	3599.49	28.33	-23.52	28.33	0.03
3800.00	1.29	332.61	3799.43	32.71	-25.80	32.71	0.13
4000.00	1.24	328.94	3999.38	36.56	-27.95	36.56	0.05
4200.00	1.42	333.22	4199.33	40.62	-30.18	40.62	0.10
4400.00	1.45	332.12	4399.27	45.97	-32.47	45.97	0.02
4600.00	1.31	333.67	4599.21	49.36	-34.65	49.36	0.07
4800.00	1.37	334.97	4799.15	53.58	-36.67	53.58	0.04
5000.00	1.47	334.52	4999.09	58.06	-38.79	58.06	0.05
5200.00	1.99	347.99	5199.03	65.81	-43.96	65.81	0.25
5400.00	1.18	308.66	5398.98				

5600.00	1.18	317.90	5598.94	68.62	-46.95	68.62	0.10
5800.00	1.60	313.60	5798.88	72.07	-50.35	72.07	0.22
6000.00	1.13	313.84	5998.82	75.35	-53.78	75.35	0.23

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Measured Depth (feet)	Course Inclination	Course Direction	Vertical Depth (feet)	Rectangular Coordinates N/S E/W		Vertical Section	Dogleg Severity (per100)
6200.00	1.08	305.94	6198.79	77.82	-56.73	77.82	0.08
6400.00	1.66	305.31	6398.73	80.60	-60.62	80.60	0.29
6600.00	1.44	307.15	6598.65	83.79	-64.99	83.79	0.11
6800.00	1.30	307.77	6798.60	86.71	-68.79	86.71	0.07
7000.00	1.09	317.88	6998.55	89.51	-71.86	89.51	0.15
7200.00	1.13	314.10	7198.51	92.29	-74.55	92.29	0.04
7400.00	1.37	302.30	7398.47	94.93	-77.98	94.93	0.17
7600.00	1.39	298.48	7598.41	97.36	-82.12	97.36	0.05
7800.00	1.20	302.38	7798.36	99.64	-86.02	99.64	0.10
8000.00	1.07	296.68	7998.32	101.59	-89.45	101.59	0.09
8200.00	0.96	284.93	8198.29	102.86	-92.73	102.86	0.12
8400.00	1.17	274.42	8398.25	103.45	-96.39	103.45	0.14
8600.00	1.63	253.26	8598.19	102.79	-101.14	102.79	0.34
8800.00	1.66	251.74	8798.11	101.06	-106.62	101.06	0.03
9000.00	2.00	248.56	8998.01	98.87	-112.62	98.87	0.18
9200.00	1.60	245.62	9197.91	96.44	-118.42	96.44	0.20
9400.00	1.73	229.54	9397.82	93.33	-123.26	93.33	0.24
9600.00	1.97	225.59	9597.72	88.97	-128.01	88.97	0.14
9800.00	1.58	222.02	9797.62	84.51	-132.32	84.51	0.20
10000.00	1.51	212.63	9997.55	80.24	-135.59	80.24	0.13
10200.00	1.70	213.45	10197.40	75.55	-138.64	75.55	0.10
10400.00	1.47	216.38	10397.30	71.01	-141.80	71.01	0.12
10600.00	2.71	197.28	10597.20	64.43	-144.73	64.43	0.70
10800.00	3.99	177.38	10796.90	52.96	-145.81	52.96	0.86
11000.00	4.77	162.25	10996.30	38.09	-142.96	38.09	0.69
11200.00	7.17	157.59	11195.20	18.63	-135.67	18.63	1.22
11400.00	6.56	159.07	11393.70	-3.58	-126.83	-3.58	0.32
11600.00	5.53	157.99	11592.60	-23.17	-119.14	-23.17	0.52
11770.00	4.88	160.83	11761.90	-37.59	-113.70	-37.59	0.41

Final Closure - Direction: 251.71 degrees
- Distance: 119.75 feet

Projected TO

11860' 4.54" 159 AZM TVD 11851.59 5 44.54 111.18
4/5
45.25"

OPERATOR: Chevron/Texaco
WELL/LEASE: North Lusk 32 St. 1
COUNTY: Lea

C-32-185-320 501-301-0127
330/N & 2258/W
30-025-35747

STATE OF NEW MEXICO
DEVIATION REPORT

235	1
498	1
986	1
1,490	3/4
1,998	1/2
2,535	3/4
2,794	3/4
3,271	1 3/4
3,520	1 1/4
3,998	1 1/2
4,238	1 1/2
4,306	1 1/2
4,780	1 1/2
5,035	1 1/2
5,512	1 1/2
5,980	1 1/4
6,461	1 1/2
6,974	1
7,450	1 1/2
7,950	3/4
8,434	1 1/4
8,945	1 3/4
9,440	1 3/4
9,916	1 1/4
10,396	1 1/2
10,672	2 1/2
11,309	7
11,337	7
11,433	6 1/2
11,520	6 1/4
11,650	6

By: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 31st day of December, 2001, by Steve Moore on behalf of Patterson-UTi Drilling Company LP, LLLP.

Joni D. Hodges
Notary Public for Midland County, Texas

My Commission Expires: 3/31/2003

