

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-041-20895	Pool Code 72640	Pool Name Bluitt (Wolfcamp) Gas
Property Code 002265	Property Name FEDERAL "27" COM	Well Number 3
GRID No. 009676	Operator Name H.L. BROWN, JR	Elevation 4057'

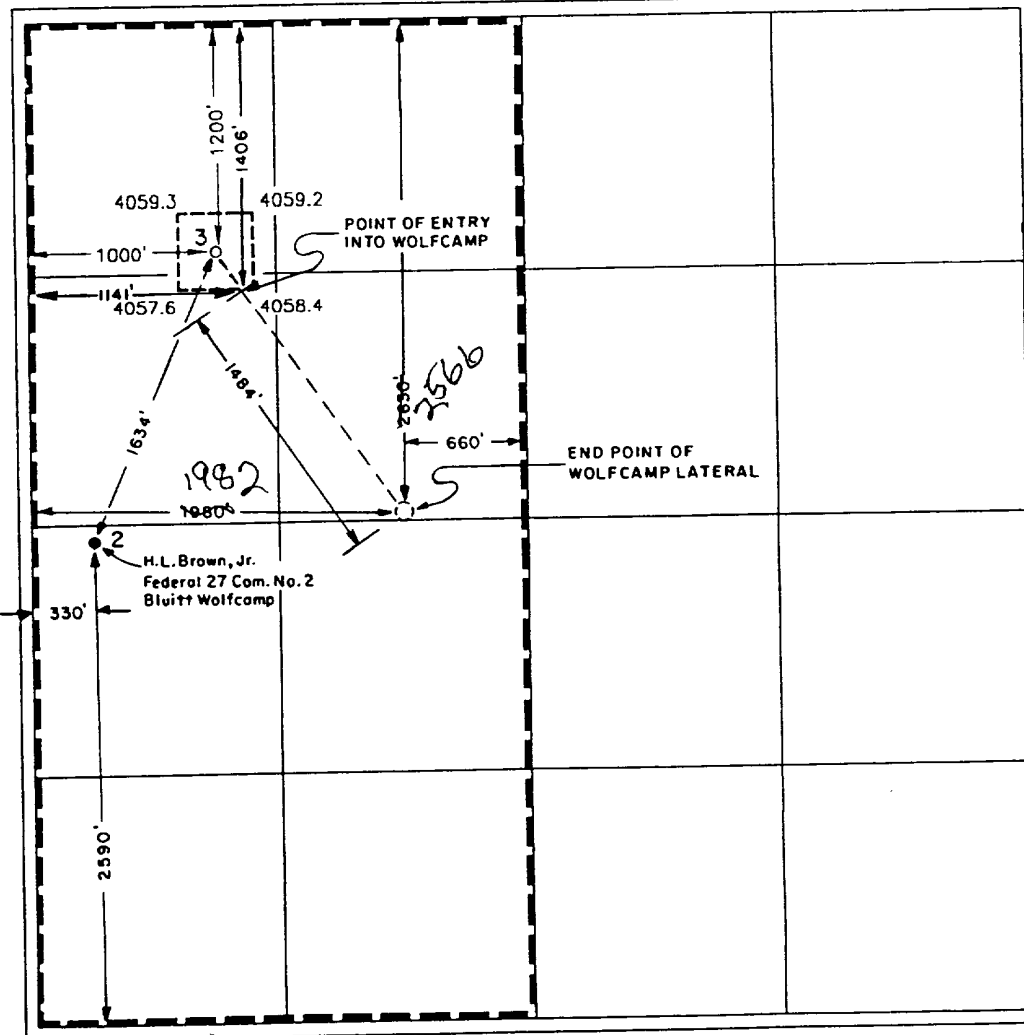
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	27	7-S	37-E		1200	NORTH	1000	WEST	ROOSEVELT

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
F	27	7-S	37-E		2630 2566	North	1980 1982	West	Roosevelt
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No. NMNM 91048						

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 that the information contained herein is true and complete to the best of my knowledge and belief.

Jerry M. Jordan
Signature

Jerry M. Jordan
Printed Name

Operations Manager
Title

2/9/01
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.

JANUARY 25, 2001

Date Surveyed
Signature & Seal of Professional Surveyor

Ronald J. Eidson
01/29/01
61-11-0119

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

LEAN DRILLING SYSTEMS, INC.

Survey Report

Company: H.L. BROWN JR.	Date: 10/24/2001	Time: 11:05:01	Page: 1
Field: ROOSEVELT COUNTY, NEW MEXICO	Co-ordinate(NE) Reference:	Site: FEDERAL "27" WELL NO. 3, Grid Nort	
Site: FEDERAL "27" WELL NO. 3	Vertical (TVD) Reference:	SITE 0.0	
Well: D3822-MD	Section (VS) Reference:	Well (0.00N,0.00E,144.70Azi)	
Wellpath: GYRO	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: GYRO	Start Date: 10/8/2001
GYRO SVY RUN BY SCIENTIFIC DRLG.	
Company:	Engineer:
Tool:	Tied-to: From Surface

Well: D3822-MD	Slot Name:
Well Position: +N-S 0.00 ft Northing: 978146.80 ft	Latitude: 33 40 59.377 N
+E-W 0.00 ft Easting: 861252.60 ft	Longitude: 103 8 44.925 W
Position Uncertainty: 0.00 ft	

Survey

MD	Incl	Azim	TVD	NS	E/W	VS	DLS	Build	Turn	ChD	ChA
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.90	244.69	100.00	-0.34	-0.71	-0.14	0.90	0.90	0.00	0.79	244.69
200.00	0.86	224.14	199.98	-1.21	-1.94	-0.13	0.32	-0.04	-20.55	2.29	238.08
300.00	0.65	214.11	299.98	-2.22	-2.78	0.20	0.25	-0.21	-10.03	3.56	231.45
400.00	0.88	209.91	399.97	-3.35	-3.48	0.72	0.24	0.23	-4.20	4.84	226.10
500.00	0.98	195.79	499.95	-4.84	-4.10	1.58	0.25	0.10	-14.12	6.34	220.26
600.00	0.89	194.13	599.94	-6.42	-4.52	2.62	0.09	-0.09	-1.66	7.85	215.17
700.00	0.97	191.66	699.93	-8.00	-4.88	3.71	0.09	0.08	-2.47	9.37	211.40
800.00	0.79	196.68	799.92	-9.49	-5.25	4.71	0.20	-0.18	5.02	10.85	208.96
900.00	0.58	178.03	899.91	-10.66	-5.43	5.56	0.30	-0.21	-18.65	11.96	207.01
1000.00	0.55	192.09	999.90	-11.63	-5.52	6.31	0.14	-0.03	14.06	12.87	205.37
1100.00	0.56	194.78	1099.90	-12.57	-5.74	6.94	0.03	0.01	2.69	13.82	204.54
1200.00	0.48	180.10	1199.89	-13.46	-5.87	7.60	0.15	-0.08	-14.68	14.69	203.54
1300.00	0.56	171.03	1299.89	-14.37	-5.79	8.38	0.11	0.08	-9.07	15.49	201.95
1400.00	0.57	184.31	1399.89	-15.34	-5.75	9.20	0.13	0.01	13.28	16.39	200.55
1500.00	0.37	195.28	1499.88	-16.15	-5.87	9.79	0.22	-0.20	10.97	17.19	199.99
1600.00	0.28	201.23	1599.88	-16.69	-6.05	10.13	0.10	-0.09	5.95	17.75	199.92
1700.00	0.20	212.27	1699.88	-17.07	-6.23	10.33	0.09	-0.08	11.04	18.17	200.05
1800.00	0.32	204.65	1799.88	-17.47	-6.44	10.54	0.12	0.12	-7.62	18.62	200.24
1900.00	0.28	237.37	1899.88	-17.85	-6.76	10.66	0.17	-0.04	32.72	19.09	200.74
2000.00	0.10	223.75	1999.88	-18.05	-7.03	10.67	0.18	-0.18	-13.62	19.37	201.27
2100.00	0.14	216.47	2099.88	-18.21	-7.16	10.72	0.04	0.04	-7.28	19.57	201.47
2200.00	0.11	211.38	2199.88	-18.39	-7.28	10.80	0.03	-0.03	-5.09	19.78	201.61
2300.00	0.45	76.71	2299.88	-18.38	-6.95	10.99	0.53	0.34	-134.67	19.65	200.71
2400.00	0.44	85.45	2399.87	-18.26	-6.19	11.33	0.07	-0.01	8.74	19.25	198.71
2500.00	0.67	81.80	2499.87	-18.15	-5.22	11.79	0.23	0.23	-3.65	18.88	196.06
2600.00	0.82	111.38	2599.86	-18.32	-3.98	12.66	0.41	0.15	29.58	18.75	192.25
2700.00	0.73	110.98	2699.85	-18.81	-2.72	13.78	0.09	-0.09	-0.40	19.01	188.22
2800.00	0.63	138.13	2799.84	-19.45	-1.76	14.86	0.33	-0.10	27.15	19.53	185.16
2900.00	0.27	103.37	2899.84	-19.91	-1.16	15.58	0.44	-0.36	-34.76	19.95	183.33
3000.00	0.35	69.20	2999.84	-19.86	-0.65	15.84	0.20	0.08	-34.17	19.87	181.86
3100.00	0.37	95.98	3099.84	-19.79	-0.04	16.13	0.17	0.02	26.78	19.79	180.11
3200.00	0.59	77.16	3199.83	-19.71	0.78	16.54	0.27	0.22	-18.82	19.72	177.72
3300.00	0.37	92.00	3299.83	-19.60	1.61	16.93	0.25	-0.22	14.84	19.67	175.31
3400.00	0.71	79.69	3399.83	-19.50	2.54	17.38	0.36	0.34	-12.31	19.67	172.58
3500.00	0.57	69.04	3499.82	-19.21	3.62	17.77	0.18	-0.14	-10.65	19.55	169.34
3600.00	0.57	104.61	3599.81	-19.16	4.56	18.27	0.35	0.00	35.57	19.70	166.61
3700.00	0.66	88.05	3699.81	-19.27	5.62	18.97	0.20	0.09	-16.56	20.07	163.74
3800.00	0.45	144.02	3799.81	-19.57	6.42	19.68	0.55	-0.21	55.97	20.59	161.82
3900.00	0.64	145.40	3899.80	-20.34	6.97	20.63	0.19	0.19	1.38	21.50	161.08
4000.00	0.71	130.84	3999.79	-21.21	7.76	21.79	0.18	0.07	-14.56	22.58	159.91
4100.00	0.59	121.70	4099.79	-21.88	8.66	22.87	0.16	-0.12	-9.14	23.54	158.40
4200.00	0.63	139.83	4199.78	-22.57	9.46	23.89	0.20	0.04	18.13	24.47	157.27
4300.00	0.81	141.44	4299.77	-23.55	10.25	25.14	0.18	0.18	1.61	25.68	156.47

2001 OCT 24 11:05 AM
 D3822-MD

BUREAU OF LAND MGMT
ROOM 111 OFFICE

2002 FEB 22 AM 8:35

RECEIVED

LEA... DRILLING SYSTEMS, INC.

Survey Report

Company: H.L. BROWN JR. Field: ROOSEVELT COUNTY, NEW MEXICO Site: FEDERAL "27" WELL NO. 3 Well: D3822-MD Wellpath: GYRO	Date: 10/24/2001 Time: 11:05:01 Page: 2 Co-ordinate(NE) Reference: Site: FEDERAL "27" WELL NO. 3; Grid Nort Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,144.70Az) Survey Calculation Method: Minimum Curvature Dt: Sybase
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Survey

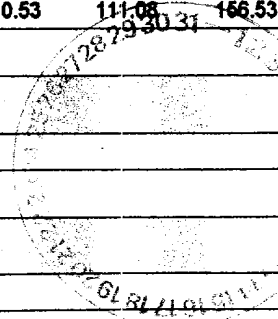
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Chd ft	ChA deg
4400.00	0.80	130.53	4399.76	-24.55	11.22	26.52	0.15	-0.01	-10.91	27.00	155.43
4500.00	0.69	140.15	4499.76	-25.47	12.14	27.80	0.17	-0.11	9.62	28.21	154.51
4600.00	0.84	139.32	4599.75	-26.49	13.00	29.13	0.15	0.15	-0.83	29.51	153.85
4700.00	0.93	128.82	4699.73	-27.55	14.11	30.64	0.19	0.09	-10.50	30.96	152.88
4800.00	0.77	135.64	4799.72	-28.54	15.22	32.09	0.19	-0.16	6.82	32.34	151.94
4900.00	0.82	143.76	4899.71	-29.60	16.11	33.46	0.12	0.05	8.12	33.70	151.44
5000.00	1.18	143.22	4999.70	-31.00	17.15	35.21	0.36	0.36	-0.54	35.43	151.05
5100.00	1.18	139.55	5099.68	-32.61	18.43	37.26	0.08	0.00	-3.67	37.46	150.52
5200.00	1.27	148.57	5199.65	-34.34	19.68	39.40	0.21	0.09	9.02	39.58	150.18
5300.00	1.62	143.71	5299.62	-36.42	21.09	41.91	0.37	0.35	-4.86	42.09	149.92
5400.00	1.52	140.31	5399.59	-38.58	22.78	44.65	0.14	-0.10	-3.40	44.80	149.44
5500.00	1.46	145.56	5499.55	-40.65	24.34	47.25	0.15	-0.06	5.25	47.39	149.09
5600.00	1.66	143.99	5599.51	-42.88	25.92	49.97	0.20	0.20	-1.57	50.10	148.85
5700.00	1.41	142.90	5699.48	-45.03	27.51	52.65	0.25	-0.25	-1.09	52.77	148.58
5800.00	1.36	155.73	5799.45	-47.09	28.74	55.04	0.31	-0.05	12.83	55.17	148.60
5900.00	1.49	156.62	5899.42	-49.37	29.74	57.48	0.13	0.13	0.89	57.64	148.93
6000.00	1.65	159.65	5999.38	-51.91	30.76	60.14	0.18	0.16	3.03	60.34	149.35
6100.00	1.64	159.08	6099.34	-54.60	31.77	62.92	0.02	-0.01	-0.57	63.17	149.80
6200.00	1.71	156.83	6199.30	-57.31	32.87	65.76	0.10	0.07	-2.25	66.06	150.16
6300.00	1.70	158.77	6299.25	-60.06	33.99	68.66	0.06	-0.01	1.94	69.01	150.49
6400.00	1.70	163.08	6399.21	-62.86	34.96	71.51	0.13	0.00	4.31	71.93	150.92
6500.00	1.61	164.76	6499.17	-65.64	35.76	74.23	0.10	-0.09	1.68	74.75	151.41
6600.00	1.62	164.37	6599.13	-68.35	36.51	76.89	0.01	0.01	-0.39	77.49	151.89
6700.00	1.80	165.88	6699.08	-71.24	37.28	79.68	0.19	0.18	1.51	80.40	152.38
6800.00	1.70	161.47	6799.04	-74.17	38.13	82.57	0.17	-0.10	-4.41	83.40	152.79
6900.00	1.89	160.50	6898.99	-77.13	39.15	85.57	0.19	0.19	-0.97	86.50	153.08
7000.00	2.06	165.23	6998.93	-80.42	40.16	88.84	0.24	0.17	4.73	89.89	153.46
7100.00	2.04	164.21	7098.86	-83.87	41.11	92.20	0.04	-0.02	-1.02	93.40	153.89
7200.00	2.26	169.85	7198.79	-87.52	41.94	95.67	0.30	0.22	5.64	97.05	154.40
7300.00	2.25	170.79	7298.72	-91.40	42.60	99.21	0.04	-0.01	0.94	100.84	155.01
7400.00	2.31	168.07	7398.64	-95.31	43.33	102.83	0.12	0.06	-2.72	104.70	155.55
7500.00	2.16	173.89	7498.56	-99.16	43.95	106.32	0.27	-0.15	5.82	108.46	156.10
7575.00	2.04	174.29	7573.51	-101.89	44.23	108.72	0.16	-0.16	0.53	111.08	166.53

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD	TVD



RECEIVED
2007 FEB 22 AM 8:35
FEDERAL BOND NAME
LOCAL OFFICE

LEA, DRILLING SYSTEMS, INC.

UTM Report (Survey)

Company: H.L. BROWN JR.	Date: 10/24/2001	Time: 11:04:46	Page: 1
Field: ROOSEVELT COUNTY, NEW MEXICO	Co-ordinate(NE) Reference:	Site: FEDERAL "27" WELL NO. 3, Grid Nort	
Site: FEDERAL "27" WELL NO. 3	Vertical (TVD) Reference:	SITE 0.0	
Well: D3822-MD	Section (VS) Reference:	Well (0.00N,0.00E,144.70Azi)	
Wellpath: GYRO	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: GYRO GYRO SVY RUN BY SCIENTIFIC DRLG.	Start Date: 10/8/2001
Company:	Engineer:
Tool:	Tied-to: From Surface

Well: D3822-MD	Slot Name:
Well Position:	Latitude: 33 40 59.377 N
+N-S 0.00 ft Northing: 978146.80 ft	Longitude: 103 8 44.925 W
+E-W 0.00 ft Easting: 861252.60 ft	
Position Uncertainty: 0.00 ft	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat	Long
0.00	0.00	0.00	0.00	0.00	0.00	978146.80	861252.60	33 40 59.377	N103 8 44.925
100.00	0.90	244.69	100.00	-0.34	-0.71	978146.46	861251.89	33 40 59.373	N103 8 44.933
200.00	0.86	224.14	199.98	-1.21	-1.94	978145.59	861250.66	33 40 59.365	N103 8 44.948
300.00	0.65	214.11	299.98	-2.22	-2.78	978144.58	861249.82	33 40 59.355	N103 8 44.958
400.00	0.88	209.91	399.97	-3.35	-3.48	978143.45	861249.12	33 40 59.344	N103 8 44.966
500.00	0.98	196.79	499.95	-4.84	-4.10	978141.96	861248.50	33 40 59.329	N103 8 44.974
600.00	0.89	194.13	599.94	-6.42	-4.52	978140.38	861248.08	33 40 59.314	N103 8 44.979
700.00	0.97	191.66	699.93	-8.00	-4.88	978138.80	861247.72	33 40 59.298	N103 8 44.984
800.00	0.79	196.68	799.92	-9.49	-5.25	978137.31	861247.35	33 40 59.283	N103 8 44.988
900.00	0.58	178.03	899.91	-10.66	-5.43	978136.14	861247.17	33 40 59.272	N103 8 44.990
1000.00	0.55	192.09	999.90	-11.63	-5.52	978135.17	861247.08	33 40 59.262	N103 8 44.992
1100.00	0.56	194.78	1099.90	-12.57	-5.74	978134.23	861246.86	33 40 59.253	N103 8 44.994
1200.00	0.48	180.10	1199.89	-13.46	-5.87	978133.34	861246.73	33 40 59.244	N103 8 44.996
1300.00	0.56	171.03	1299.89	-14.37	-5.79	978132.43	861246.81	33 40 59.235	N103 8 44.995
1400.00	0.57	184.31	1399.89	-15.34	-5.75	978131.46	861246.85	33 40 59.226	N103 8 44.995
1500.00	0.37	195.28	1499.88	-16.15	-5.87	978130.65	861246.73	33 40 59.218	N103 8 44.996
1600.00	0.28	201.23	1599.88	-16.69	-6.05	978130.11	861246.55	33 40 59.212	N103 8 44.999
1700.00	0.20	212.27	1699.88	-17.07	-6.23	978129.73	861246.37	33 40 59.209	N103 8 45.001
1800.00	0.32	204.65	1799.88	-17.47	-6.44	978129.33	861246.16	33 40 59.205	N103 8 45.003
1900.00	0.28	237.37	1899.88	-17.85	-6.76	978128.95	861245.84	33 40 59.201	N103 8 45.007
2000.00	0.10	223.75	1999.88	-18.05	-7.03	978128.75	861245.57	33 40 59.199	N103 8 45.010
2100.00	0.14	216.47	2099.88	-18.21	-7.16	978128.59	861245.44	33 40 59.197	N103 8 45.012
2200.00	0.11	211.38	2199.88	-18.39	-7.28	978128.41	861245.32	33 40 59.196	N103 8 45.013
2300.00	0.45	76.71	2299.88	-18.38	-6.95	978128.42	861245.65	33 40 59.196	N103 8 45.010
2400.00	0.44	85.45	2399.87	-18.26	-6.19	978128.54	861246.41	33 40 59.197	N103 8 45.000
2500.00	0.67	81.80	2499.87	-18.15	-5.22	978128.65	861247.38	33 40 59.198	N103 8 44.989
2600.00	0.82	111.38	2599.86	-18.32	-3.98	978128.48	861248.62	33 40 59.196	N103 8 44.974
2700.00	0.73	110.98	2699.85	-18.81	-2.72	978127.99	861249.88	33 40 59.191	N103 8 44.959
2800.00	0.63	138.13	2799.84	-19.45	-1.76	978127.35	861250.84	33 40 59.185	N103 8 44.948
2900.00	0.27	103.37	2899.84	-19.91	-1.16	978126.89	861251.44	33 40 59.180	N103 8 44.941
3000.00	0.35	69.20	2999.84	-19.86	-0.65	978126.94	861251.95	33 40 59.180	N103 8 44.935
3100.00	0.37	95.98	3099.84	-19.79	-0.04	978127.01	861252.56	33 40 59.181	N103 8 44.928
3200.00	0.59	77.16	3199.83	-19.71	0.78	978127.09	861253.38	33 40 59.182	N103 8 44.918
3300.00	0.37	92.00	3299.83	-19.60	1.61	978127.20	861254.21	33 40 59.183	N103 8 44.908
3400.00	0.71	79.69	3399.83	-19.50	2.54	978127.30	861255.14	33 40 59.184	N103 8 44.897
3500.00	0.57	69.04	3499.82	-19.21	3.62	978127.59	861256.22	33 40 59.185	N103 8 44.885
3600.00	0.57	104.61	3599.81	-19.16	4.56	978127.64	861257.16	33 40 59.187	N103 8 44.873
3700.00	0.66	88.05	3699.81	-19.27	5.62	978127.53	861258.22	33 40 59.186	N103 8 44.861
3800.00	0.45	144.02	3799.81	-19.57	6.42	978127.23	861259.02	33 40 59.182	N103 8 44.851
3900.00	0.64	145.40	3899.80	-20.34	6.97	978126.46	861259.57	33 40 59.175	N103 8 44.845
4000.00	0.71	130.84	3999.79	-21.21	7.76	978125.59	861260.36	33 40 59.166	N103 8 44.836
4100.00	0.59	121.70	4099.79	-21.88	8.66	978124.92	861261.26	33 40 59.159	N103 8 44.825
4200.00	0.63	139.83	4199.78	-22.57	9.46	978124.23	861262.06	33 40 59.152	N103 8 44.816
4300.00	0.81	141.44	4299.77	-23.55	10.25	978123.25	861262.85	33 40 59.143	N103 8 44.807

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LEAN. DRILLING SYSTEMS, INC.

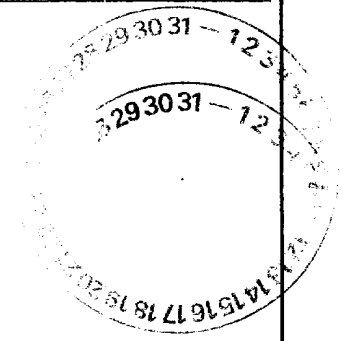
UTM Report (Survey)

Company: H.L. BROWN JR.
Field: ROOSEVELT COUNTY, NEW MEXICO
Site: FEDERAL "27" WELL NO. 3
Well: D3822-MD
Wellpath: GYRO

Date: 10/24/2001 **Time:** 11:04:46 **Page:** 2
Co-ordinate(NE) Reference: Site: FEDERAL "27" WELL NO. 3, Grid Nort
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,144.70Az)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat	Long
4400.00	0.80	130.53	4399.76	-24.55	11.22	978122.25	861263.82	33 40	59.133 N103 8 44.795
4500.00	0.69	140.15	4499.76	-25.47	12.14	978121.33	861264.74	33 40	59.123 N103 8 44.785
4600.00	0.84	139.32	4599.75	-26.49	13.00	978120.31	861265.60	33 40	59.113 N103 8 44.775
4700.00	0.93	128.82	4699.73	-27.55	14.11	978119.25	861266.71	33 40	59.103 N103 8 44.762
4800.00	0.77	135.64	4799.72	-28.54	15.22	978118.26	861267.82	33 40	59.093 N103 8 44.749
4900.00	0.82	143.76	4899.71	-29.60	16.11	978117.20	861268.71	33 40	59.082 N103 8 44.738
5000.00	1.18	143.22	4999.70	-31.00	17.15	978115.80	861269.75	33 40	59.068 N103 8 44.726
5100.00	1.18	139.55	5099.68	-32.61	18.43	978114.19	861271.03	33 40	59.052 N103 8 44.711
5200.00	1.27	148.57	5199.65	-34.34	19.68	978112.46	861272.28	33 40	59.035 N103 8 44.697
5300.00	1.62	143.71	5299.62	-36.42	21.09	978110.38	861273.69	33 40	59.014 N103 8 44.680
5400.00	1.52	140.31	5399.59	-38.58	22.78	978108.22	861275.38	33 40	58.992 N103 8 44.661
5500.00	1.46	145.56	5499.55	-40.65	24.34	978106.15	861276.94	33 40	58.972 N103 8 44.642
5600.00	1.66	143.99	5599.51	-42.88	25.92	978103.92	861278.52	33 40	58.950 N103 8 44.624
5700.00	1.41	142.90	5699.48	-45.03	27.51	978101.77	861280.11	33 40	58.928 N103 8 44.605
5800.00	1.36	155.73	5799.45	-47.09	28.74	978099.71	861281.34	33 40	58.908 N103 8 44.591
5900.00	1.49	156.62	5899.42	-49.37	29.74	978097.43	861282.34	33 40	58.885 N103 8 44.580
6000.00	1.65	159.65	5999.38	-51.91	30.76	978094.89	861283.36	33 40	58.860 N103 8 44.568
6100.00	1.64	159.08	6099.34	-54.60	31.77	978092.20	861284.37	33 40	58.833 N103 8 44.556
6200.00	1.71	156.83	6199.30	-57.31	32.87	978089.49	861285.47	33 40	58.806 N103 8 44.544
6300.00	1.70	158.77	6299.25	-60.06	33.99	978086.74	861286.59	33 40	58.779 N103 8 44.531
6400.00	1.70	163.08	6399.21	-62.86	34.96	978083.94	861287.56	33 40	58.751 N103 8 44.520
6500.00	1.61	164.76	6499.17	-65.64	35.76	978081.16	861288.36	33 40	58.723 N103 8 44.511
6600.00	1.62	164.37	6599.13	-68.35	36.51	978078.45	861289.11	33 40	58.696 N103 8 44.502
6700.00	1.80	165.88	6699.08	-71.24	37.28	978075.56	861289.88	33 40	58.668 N103 8 44.493
6800.00	1.70	161.47	6799.04	-74.17	38.13	978072.63	861290.73	33 40	58.639 N103 8 44.484
6900.00	1.89	160.50	6898.99	-77.13	39.15	978069.67	861291.75	33 40	58.609 N103 8 44.472
7000.00	2.06	165.23	6998.93	-80.42	40.16	978066.38	861292.76	33 40	58.577 N103 8 44.460
7100.00	2.04	164.21	7098.86	-83.87	41.11	978062.93	861293.71	33 40	58.542 N103 8 44.450
7200.00	2.26	169.85	7198.79	-87.52	41.94	978059.28	861294.54	33 40	58.506 N103 8 44.440
7300.00	2.25	170.79	7298.72	-91.40	42.60	978055.40	861295.20	33 40	58.468 N103 8 44.433
7400.00	2.31	168.07	7398.64	-95.31	43.33	978051.49	861295.93	33 40	58.429 N103 8 44.425
7500.00	2.16	173.89	7498.56	-99.16	43.95	978047.64	861296.55	33 40	58.391 N103 8 44.418
7575.00	2.04	174.29	7573.51	-101.89	44.23	978044.91	861296.83	33 40	58.364 N103 8 44.415



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GENERAL OFFICE

LEAN DRILLING SYSTEMS, INC.

Survey Report

Company: H.L. BROWN JR.	Date: 10/24/2001	Time: 11:03:55	Page: 1
Field: ROOSEVELT COUNTY, NEW MEXICO	Co-ordinate(NE) Reference:	Site: FEDERAL "27" WELL NO. 3, Grid Nort	
Site: FEDERAL "27" WELL NO. 3	Vertical (TVD) Reference:	SITE 0.0	
Well: D3822-MD	Section (VS) Reference:	Well (0.00N,0.00E,144.70Azi)	
Wellpath: MWD	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: MWD
TIED TO GYRO AT 7575' MD

Start Date: 9/20/2001

Company:
Tool:

Engineer:
Tied-to: From: Definitive Path

Well: D3822-MD

Slot Name:

Well Position: +N-S 0.00 ft Northing: 978146.80 ft Latitude: 33 40 59.377 N
 +E-W 0.00 ft Easting: 861252.60 ft Longitude: 103 8 44.925 W
 Position Uncertainty: 0.00 ft

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ChD ft	ChA deg
7575.00	2.04	174.29	7573.51	-101.89	44.23	108.72	0.00	0.00	0.00	111.08	156.53
7685.00	2.10	177.20	7683.44	-105.85	44.52	112.12	0.11	0.05	2.65	114.83	157.19
7714.00	6.80	152.80	7712.34	-107.91	45.33	114.27	17.12	16.21	-84.14	117.05	157.21
7729.00	11.00	148.70	7727.16	-109.92	46.48	116.58	28.30	28.00	-27.33	119.35	157.08
7744.00	14.60	146.20	7741.79	-112.72	48.28	119.89	24.28	24.00	-16.67	122.62	156.81
7774.00	21.30	143.90	7770.31	-120.27	53.60	129.13	22.45	22.33	-7.67	131.68	155.98
7805.00	25.90	144.00	7798.71	-130.30	60.90	141.54	14.84	14.84	0.32	143.83	154.95
7836.00	30.10	143.20	7826.07	-142.01	69.54	156.09	13.60	13.55	-2.58	158.12	153.91
7867.00	36.10	142.00	7852.03	-155.45	79.83	172.99	19.47	19.35	-3.87	174.75	152.82
7898.00	43.10	142.60	7875.90	-171.07	91.90	192.73	22.61	22.58	1.94	194.20	151.76
7929.00	49.70	142.40	7897.27	-188.87	105.56	215.15	21.30	21.29	-0.65	216.37	150.80
7964.00	57.70	142.30	7917.97	-211.19	122.78	243.31	22.86	22.86	-0.29	244.28	149.83
7992.00	58.10	143.90	7932.85	-230.16	137.02	267.02	5.05	1.43	5.71	267.85	149.23
8022.00	62.50	142.70	7947.71	-251.04	152.59	293.06	15.07	14.67	-4.00	293.78	148.71
8053.00	69.00	141.90	7960.44	-273.39	169.87	321.28	21.10	20.97	-2.58	321.87	148.15
8084.00	75.60	140.50	7969.86	-296.39	188.37	350.74	21.72	21.29	-4.52	351.18	147.56
8099.00	79.40	140.00	7973.11	-307.64	197.73	365.34	25.54	25.33	-3.33	365.71	147.27
8188.00	85.70	142.50	7984.64	-378.44	252.93	453.38	7.61	7.08	2.81	453.52	146.10
8218.00	88.60	142.20	7986.13	-400.16	271.23	483.31	9.72	9.67	-1.00	483.41	145.87
8250.00	89.50	141.10	7986.66	-425.25	291.08	515.26	4.44	2.81	-3.44	515.33	145.61
8280.00	90.10	141.30	7986.77	-448.63	309.88	545.21	2.11	2.00	0.67	545.24	145.37
8312.00	91.70	140.70	7986.27	-473.49	330.01	577.13	5.34	5.00	-1.87	577.15	145.12
8343.00	91.70	140.10	7985.35	-497.37	349.76	608.03	1.93	0.00	-1.94	608.04	144.88
8375.00	91.70	140.30	7984.40	-521.94	370.24	639.92	0.62	0.00	0.62	639.92	144.65
8404.00	88.60	140.80	7984.32	-544.33	388.66	668.84	10.83	-10.69	1.72	668.85	144.47
8435.00	88.50	140.90	7985.11	-568.36	408.23	699.76	0.46	-0.32	0.32	699.78	144.31
8467.00	89.00	140.30	7985.80	-593.09	428.53	731.67	2.44	1.56	-1.87	731.71	144.15
8497.00	89.20	140.40	7986.27	-616.18	447.67	761.58	0.75	0.67	0.33	761.58	144.00
8529.00	87.30	141.40	7987.25	-641.00	467.85	793.49	6.71	-5.94	3.12	793.58	143.88
8561.00	87.30	140.30	7988.76	-665.79	488.03	825.39	3.43	0.00	-3.44	825.50	143.76
8592.00	89.20	141.20	7989.71	-689.78	507.63	856.30	6.78	6.13	2.60	856.44	143.65
8623.00	90.70	141.80	7989.73	-714.04	526.93	887.25	5.21	4.84	1.94	887.42	143.57
8655.00	91.30	141.50	7989.17	-739.14	546.78	919.20	2.10	1.87	-0.94	919.40	143.51
8686.00	90.10	142.30	7988.80	-763.53	565.91	950.16	4.65	-3.87	2.59	950.38	143.46
8717.00	90.40	142.20	7988.66	-788.04	584.88	981.13	1.02	0.97	-0.32	981.37	143.42
8749.00	90.00	142.50	7988.55	-813.38	604.43	1013.10	1.56	-1.25	0.94	1013.37	143.38
8780.00	90.30	142.50	7988.47	-837.97	623.30	1044.08	0.97	0.97	0.00	1044.36	143.38
8811.00	89.60	143.20	7988.49	-862.68	642.02	1075.06	3.19	-2.26	2.26	1075.36	143.34
8843.00	90.20	143.10	7988.55	-888.28	661.21	1107.05	1.90	1.87	-0.31	1107.36	143.34
8874.00	88.90	144.30	7988.79	-913.27	679.56	1138.04	5.71	-4.19	3.87	1138.36	143.35
8905.00	89.00	144.40	7989.36	-938.45	697.63	1169.04	0.46	0.32	0.32	1169.35	143.37
8937.00	89.60	144.70	7989.75	-964.52	716.19	1201.03	2.10	1.87	0.94	1201.34	143.40
8968.00	89.70	144.90	7989.94	-989.85	734.06	1232.03	0.72	0.32	0.65	1232.33	143.44
8999.00	88.60	144.80	7990.40	-1015.19	751.90	1263.03	3.56	-3.55	-0.32	1263.32	143.47

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LEAM. DRILLING SYSTEMS, INC.

Survey Report

Company: H.L. BROWN JR.	Date: 10/24/2001	Time: 11:03:55	Page: 2
Field: ROOSEVELT COUNTY, NEW MEXICO	Co-ordinate(NE) Reference:	Site: FEDERAL "27" WELL NO. 3, Grid Nort	
Site: FEDERAL "27" WELL NO. 3	Vertical (TVD) Reference:	SITE 0.0	
Well: D3822-MD	Section (VS) Reference:	Well (0.00N,0.00E,144.70Azi)	
Wellpath: MWD	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

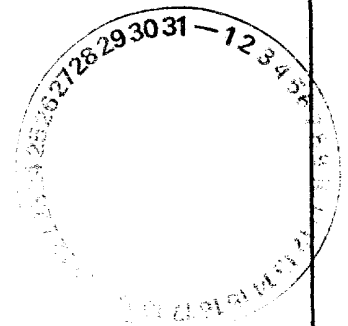
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClD ft	ClA deg
9030.00	88.80	144.70	7991.11	-1040.50	769.79	1294.02	0.72	0.65	-0.32	1294.30	143.51
9061.00	89.10	144.60	7991.67	-1065.78	787.72	1325.02	1.02	0.97	-0.32	1325.29	143.53
9092.00	89.30	144.60	7992.11	-1091.05	805.68	1356.01	0.65	0.65	0.00	1356.28	143.56
9123.00	89.40	144.50	7992.46	-1116.30	823.66	1387.01	0.46	0.32	-0.32	1387.28	143.58
9155.00	89.50	145.00	7992.77	-1142.43	842.12	1419.01	1.59	0.31	1.56	1419.27	143.60
9186.00	88.70	146.50	7993.25	-1168.05	859.57	1450.00	5.48	-2.58	4.84	1450.24	143.65
9218.00	88.60	146.30	7994.01	-1194.70	877.27	1481.98	0.70	-0.31	-0.62	1482.20	143.71
9250.00	88.70	147.40	7994.76	-1221.48	894.77	1513.94	3.45	0.31	3.44	1514.14	143.78
9281.00	89.80	147.90	7995.17	-1247.67	911.35	1544.90	3.90	3.55	1.61	1545.07	143.85
9313.00	89.60	148.40	7995.33	-1274.85	928.24	1576.84	1.68	-0.62	1.56	1576.98	143.94
9343.00	90.30	149.70	7995.36	-1300.58	943.67	1606.75	4.92	2.33	4.33	1606.86	144.04
9375.00	90.30	149.70	7995.19	-1328.21	959.81	1638.83	0.00	0.00	0.00	1638.71	144.15
9419.00	90.30	149.70	7994.96	-1366.19	982.01	1682.46	0.00	0.00	0.00	1682.51	144.29

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
8150.00	7980.90	5.500	6.000	5 1/2"

Annotation

MD ft	TVD ft	Description
9419.00	7994.96	PROJECTION TO TD MD:9419'



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LEAN DRILLING SYSTEMS, INC.

UTM Report (Survey)

Company: H.L. BROWN JR. Field: ROOSEVELT COUNTY, NEW MEXICO Site: FEDERAL "27" WELL NO. 3 Well: D3822-MD Wellpath: MWD	Date: 10/24/2001 Co-ordinate(NE) Reference: Site: FEDERAL "27" WELL NO. 3, Grid Nort Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,144.70Az) Survey Calculation Method: Minimum Curvature	Time: 11:04:22 Page: 1 Db: Sybase
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Survey: MWD TIED TO GYRO AT 7575' MD	Start Date: 9/20/2001
Company:	Engineer:
Tool:	Tied-to: From: Definitive Path

Well: D3822-MD	Slot Name:
Well Position:	Well Position:
+N-S 0.00 ft Northing: 978146.80 ft Latitude: 33 40 59.377 N +E-W 0.00 ft Easting: 861252.60 ft Longitude: 103 8 44.925 W	
Position Uncertainty: 0.00 ft	

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat	Long
7575.00	2.04	174.29	7573.51	-101.89	44.23	978044.91	861296.83	33 40 58.364	N103 8 44.415
7685.00	2.10	177.20	7683.44	-105.85	44.52	978040.95	861297.12	33 40 58.325	N103 8 44.412
7714.00	6.80	152.80	7712.34	-107.91	45.33	978038.89	861297.93	33 40 58.304	N103 8 44.403
7729.00	11.00	148.70	7727.16	-109.92	46.48	978036.88	861299.08	33 40 58.284	N103 8 44.390
7744.00	14.60	146.20	7741.79	-112.72	48.28	978034.08	861300.88	33 40 58.256	N103 8 44.369
7774.00	21.30	143.90	7770.31	-120.27	53.60	978026.53	861306.20	33 40 58.181	N103 8 44.307
7805.00	25.90	144.00	7798.71	-130.30	60.90	978016.50	861313.50	33 40 58.081	N103 8 44.222
7836.00	30.10	143.20	7826.07	-142.01	69.54	978004.79	861322.14	33 40 57.964	N103 8 44.121
7867.00	36.10	142.00	7852.03	-155.45	79.83	977991.35	861332.43	33 40 57.830	N103 8 44.001
7898.00	43.10	142.60	7875.90	-171.07	91.90	977975.73	861344.50	33 40 57.674	N103 8 43.861
7929.00	49.70	142.40	7897.27	-188.87	105.56	977957.93	861358.16	33 40 57.496	N103 8 43.701
7964.00	57.70	142.30	7917.97	-211.19	122.78	977935.61	861375.38	33 40 57.274	N103 8 43.501
7992.00	58.10	143.90	7932.85	-230.16	137.02	977916.64	861389.62	33 40 57.084	N103 8 43.335
8022.00	62.50	142.70	7947.71	-251.04	152.59	977895.76	861405.19	33 40 56.876	N103 8 43.153
8053.00	69.00	141.90	7960.44	-273.39	169.87	977873.41	861422.47	33 40 56.653	N103 8 42.952
8084.00	75.60	140.50	7969.86	-296.39	188.37	977850.41	861440.97	33 40 56.423	N103 8 42.736
8099.00	79.40	140.00	7973.11	-307.64	197.73	977839.16	861450.33	33 40 56.311	N103 8 42.627
8188.00	85.70	142.50	7984.64	-376.44	252.93	977770.36	861505.53	33 40 55.624	N103 8 41.983
8218.00	88.60	142.20	7986.13	-400.16	271.23	977746.64	861523.83	33 40 55.388	N103 8 41.770
8250.00	89.50	141.10	7986.66	-425.25	291.08	977721.55	861543.68	33 40 55.137	N103 8 41.539
8280.00	90.10	141.30	7986.77	-448.63	309.88	977698.17	861562.48	33 40 54.904	N103 8 41.319
8312.00	91.70	140.70	7986.27	-473.49	330.01	977673.31	861582.61	33 40 54.655	N103 8 41.085
8343.00	91.70	140.10	7985.35	-497.37	349.76	977649.43	861602.36	33 40 54.417	N103 8 40.854
8375.00	91.70	140.30	7984.40	-521.94	370.24	977624.86	861622.84	33 40 54.172	N103 8 40.615
8404.00	88.60	140.80	7984.32	-544.33	388.66	977602.47	861641.26	33 40 53.948	N103 8 40.400
8435.00	88.50	140.90	7985.11	-568.36	408.23	977578.44	861660.83	33 40 53.708	N103 8 40.172
8467.00	89.00	140.30	7985.80	-593.09	428.53	977553.71	861681.13	33 40 53.461	N103 8 39.935
8497.00	89.20	140.40	7986.27	-616.18	447.67	977530.62	861700.27	33 40 53.231	N103 8 39.712
8529.00	87.30	141.40	7987.25	-641.00	467.85	977505.80	861720.45	33 40 52.983	N103 8 39.477
8561.00	87.30	140.30	7988.76	-665.79	488.03	977481.01	861740.63	33 40 52.735	N103 8 39.241
8592.00	89.20	141.20	7989.71	-689.78	507.63	977457.02	861760.23	33 40 52.496	N103 8 39.013
8623.00	90.70	141.80	7989.73	-714.04	526.93	977432.76	861779.53	33 40 52.254	N103 8 38.788
8655.00	91.30	141.50	7989.17	-739.14	546.78	977407.66	861799.38	33 40 52.003	N103 8 38.556
8686.00	90.10	142.30	7988.80	-763.53	565.91	977383.27	861818.51	33 40 51.760	N103 8 38.333
8717.00	90.40	142.20	7988.66	-788.04	584.88	977358.76	861837.48	33 40 51.515	N103 8 38.112
8749.00	90.00	142.50	7988.55	-813.38	604.43	977333.42	861857.03	33 40 51.262	N103 8 37.884
8780.00	90.30	142.50	7988.47	-837.97	623.30	977308.83	861875.90	33 40 51.017	N103 8 37.664
8811.00	89.60	143.20	7988.49	-862.68	642.02	977284.12	861894.62	33 40 50.770	N103 8 37.446
8843.00	90.20	143.10	7988.55	-888.28	661.21	977258.52	861913.81	33 40 50.515	N103 8 37.222
8874.00	88.90	144.30	7988.79	-913.27	679.56	977233.53	861932.16	33 40 50.265	N103 8 37.009
8905.00	89.00	144.40	7989.36	-938.45	697.63	977208.35	861950.23	33 40 50.014	N103 8 36.798
8937.00	89.60	144.70	7989.75	-964.52	716.19	977182.28	861968.79	33 40 49.754	N103 8 36.582
8968.00	89.70	144.90	7989.94	-989.85	734.06	977156.95	861986.66	33 40 49.502	N103 8 36.374
8999.00	88.60	144.80	7990.40	-1015.19	751.90	977131.61	862004.50	33 40 49.249	N103 8 36.167

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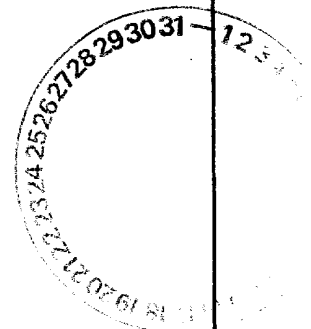
LEAN DRILLING SYSTEMS, INC.

UTM Report (Survey)

Company: H.L. BROWN JR.	Date: 10/24/2001	Time: 11:04:22	Page: 2
Field: ROOSEVELT COUNTY, NEW MEXICO	Co-ordinate(NE) Reference:	Site: FEDERAL "27" WELL NO. 3, Grid Nort	
Site: FEDERAL "27" WELL NO. 3	Vertical (TVD) Reference:	SITE 0.0	
Well: D3822-MD	Section (VS) Reference:	Well (0.00N,0.00E,144.70Azi)	
Wellpath: MWD	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azthn deg	TVD ft	NS ft	E/W ft	MapN ft	MapE ft	Lat	Long
9030.00	88.80	144.70	7991.11	-1040.50	769.79	977106.30	862022.39	33 40	48.997 N103 8 35.959
9061.00	89.10	144.60	7991.67	-1065.78	787.72	977081.02	862040.32	33 40	48.744 N103 8 35.750
9092.00	89.30	144.60	7992.11	-1091.05	805.68	977055.75	862058.28	33 40	48.492 N103 8 35.541
9123.00	89.40	144.50	7992.46	-1116.30	823.66	977030.50	862076.26	33 40	48.241 N103 8 35.332
9155.00	89.50	145.00	7992.77	-1142.43	842.12	977004.37	862094.72	33 40	47.980 N103 8 35.117
9186.00	88.70	146.50	7993.25	-1168.05	859.57	976978.75	862112.17	33 40	47.725 N103 8 34.914
9218.00	88.60	146.30	7994.01	-1194.70	877.27	976952.10	862129.87	33 40	47.459 N103 8 34.708
9250.00	88.70	147.40	7994.76	-1221.48	894.77	976925.32	862147.37	33 40	47.192 N103 8 34.505
9281.00	89.80	147.90	7995.17	-1247.67	911.35	976899.13	862163.95	33 40	46.931 N103 8 34.312
9313.00	89.60	148.40	7995.33	-1274.85	928.24	976871.95	862180.84	33 40	46.660 N103 8 34.116
9343.00	90.30	149.70	7995.36	-1300.58	943.67	976846.22	862196.27	33 40	46.404 N103 8 33.937
9375.00	90.30	149.70	7995.19	-1328.21	959.81	976818.59	862212.41	33 40	46.129 N103 8 33.750
9419.00	90.30	149.70	7994.96	-1366.19	982.01	976780.61	862234.61	33 40	45.751 N103 8 33.492



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OPERATOR: H. L. BROWN, JR.
WELL/LEASE: FEDERAL '27' COM. #3
COUNTY: ROOSEVELT

RIG 510

STATE OF NEW MEXICO
DEVIATION REPORT

227	1
751	1 1/4
1,226	1 1/4
1,743	1
2,242	3/4
2,749	1
3,130	1/2
3,606	1
4,327	1 1/2
4,517	1
4,708	1
4,898	3/4
5,374	1 1/2
5,560	1 1/4
5,745	1 1/2
5,932	1 1/4
6,425	1 1/2
6,922	1 3/4
7,415	2 1/4

By: Steve Moore

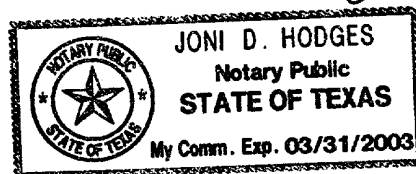
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 10th day of October, 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



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FOUNDACTION OFFICE

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