

WELL NAME AND NUMBER

Greenback State 7 #1 - 8

30-025-34208

SUR: 845/34 1980/E

BAL: 524/34 219.8/E

LOCATION Section 7, T-24-S, R-38-E, Lea County, New Mexico

OPERATOR Enron Oil & Gas Company, 4000 N. Big Spring, Suite 500, Midland, Texas 79705

DRILLING CONTRACTOR TMBR/Sharp Drilling, Inc., P.O. Drawer 10970, Midland, Texas 79702

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.25° @ 236'	.75° @ 6,042'		
.75° @ 417'	1.50° @ 6,510'		
.50° @ 955'	1.75° @ 6,979'		
.25° @ 1,457'	.25° @ 7,104'		
.50° @ 1,952'	.50° @ 7,417'		
.50° @ 2,427'	1.75° @ 7,886'		
1.75° @ 2,835'	2.00° @ 7,981'		
1.00° @ 2,990'	2.25° @ 8,169'		
1.00° @ 3,116'	2.25° @ 8,362'		
.50° @ 3,429'	3.25° @ 8,481'		
.75° @ 3,932'	4.50° @ 8,669'		
.50° @ 4,159'	5.00° @ 8,773'		
.75° @ 4,607'	5.25° @ 8,867'		
1.00° @ 5,107'			
1.00° @ 5,576'			

Drilling Contractor TMBR/Sharp Drilling, Inc.

By

Jeff Phillips, VP Production

Subscribed and sworn to before me this 21st day of January, 1998



Kathleen Roper

Notary Public Kathleen Roper

Commission expires: 9/25/99

Midland County, Texas

Linda J.
will file.

SCIENTIFIC DRILLING INTERNATIONAL

MIDLAND, TEXAS

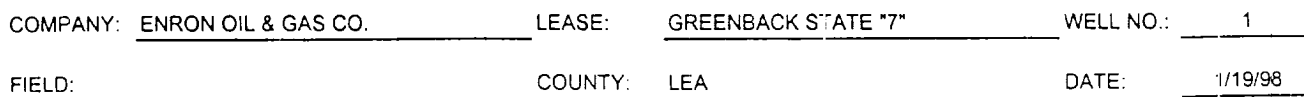
ENRON OIL & GAS

Well Name : GREENBACK STATE 7 #1
Location : LEA COUNTY, NM
SHL :
BHL :
ACTUAL BHL :
Date Surveyed : 20 DECEMBER 1997
Job Number : 32K1297603
Surveyor : GARY DESPAIN

This survey is correct to the best of my knowledge
and is supported by actual field data.

Matthew Marmulik COMPANY REPRESENTATIVE

لیسا



SCIENTIFIC DRILLING INTERNATIONAL

Client : ENRON OIL & GAS
 Well Name : GREENBACK STATE 7 #1
 Location : LEA COUNTY, NM
 SHL :
 BHL :
 ACTUAL BHL :

Page 1 of 3
 Date 20 DECEMBER 1997
 Filename : GRNBCK#1

Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
0.0	0.00	N 0.00° E	0.00	0.00	0.00	0.00	0.0
100.0	0.14	N11.70° E	100.00	0.12	0.02	0.00	0.1
200.0	0.13	N11.76° E	200.00	0.35	0.07	0.00	0.0
300.0	0.17	N22.53° W	300.00	0.60	0.04	0.00	0.1
400.0	0.24	N27.51° W	400.00	0.92	-0.11	0.14	0.1
500.0	0.51	N14.23° W	500.00	1.54	-0.32	0.37	0.3
600.0	0.51	N11.90° W	599.99	2.41	-0.52	0.60	0.0
700.0	0.47	N12.00° W	699.99	3.24	-0.70	0.80	0.0
800.0	0.48	N10.42° W	799.99	4.06	-0.86	0.99	0.0
900.0	0.45	N 9.42° W	899.98	4.85	-1.00	1.15	0.0
1000.0	0.45	N 9.80° W	999.98	5.63	-1.13	1.31	0.0
1100.0	0.42	N 7.45° E	1099.98	6.38	-1.15	1.35	0.1
1200.0	0.40	N10.91° E	1199.97	7.09	-1.04	1.26	0.0
1300.0	0.31	N30.05° E	1299.97	7.66	-0.84	1.08	0.1
1400.0	0.29	N24.93° E	1399.97	8.13	-0.59	0.85	0.0
1500.0	0.40	N27.94° E	1499.97	8.66	-0.32	0.60	0.1
1600.0	0.43	N28.03° E	1599.97	9.30	0.02	0.28	0.0
1700.0	0.54	N27.93° E	1699.96	10.05	0.41	0.00	0.1
1800.0	0.60	N22.64° E	1799.96	10.95	0.84	-0.49	0.1
1900.0	0.58	N25.79° E	1899.95	11.89	1.26	-0.88	0.0
2000.0	0.65	N35.08° E	1999.95	12.81	1.80	-1.39	0.1
2100.0	0.69	N38.06° E	2099.94	13.75	2.50	-2.06	0.1
2200.0	0.83	N39.09° E	2199.93	14.78	3.33	-2.85	0.1
2300.0	1.11	N42.11° E	2299.92	16.06	4.44	-3.92	0.3
2400.0	1.22	N41.34° E	2399.90	17.58	5.79	-5.22	0.1
2500.0	1.41	N47.35° E	2499.87	19.22	7.40	-6.78	0.2
2600.0	1.50	N50.75° E	2599.84	20.88	9.31	-8.64	0.1
2700.0	1.57	N51.89° E	2699.80	22.55	11.41	-10.68	0.1
2800.0	1.46	N52.61° E	2799.77	24.17	13.50	-12.72	0.1
2900.0	1.14	N56.27° E	2899.74	25.50	15.34	-14.51	0.3
3000.0	0.93	N57.55° E	2999.72	26.48	16.85	-15.99	0.2
3100.0	0.82	N65.24° E	3099.71	27.22	18.18	-17.30	0.2
3200.0	0.58	N56.87° E	3199.71	27.79	19.26	-18.36	0.3
3300.0	0.51	N62.43° E	3299.70	28.28	20.07	-19.16	0.1
3400.0	0.37	N47.91° E	3399.70	28.70	20.71	-19.78	0.2
3500.0	0.30	N53.81° E	3499.70	29.07	21.16	-20.22	0.1
3600.0	0.30	N36.20° E	3599.69	29.44	21.53	-20.57	0.1
3700.0	0.14	N 8.74° W	3699.69	29.77	21.66	-20.70	0.2
3800.0	0.18	N26.93° W	3799.69	30.03	21.57	-20.60	0.1
3900.0	0.12	N75.51° W	3899.69	30.20	21.40	-20.42	0.1

SCIENTIFIC DRILLING INTERNATIONAL

Client : ENRON OIL & GAS
Well Name : GREENBACK STATE 7 #1
Location : LEA COUNTY, NM
SHL :
BHL :
ACTUAL BHL :

Page 2 of 3
Date 20 DECEMBER 1997
Filename : GRNBCK#1

Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
4000.0	0.20	N88.44°W	3999.69	30.23	21.12	-20.15	0.1
4100.0	0.28	S87.88°W	4099.69	30.22	20.70	-19.73	0.1
4200.0	0.24	S82.65°W	4199.69	30.19	20.25	-19.28	0.0
4300.0	0.31	S78.01°W	4299.69	30.10	19.78	-18.81	0.1
4400.0	0.33	S68.40°W	4399.69	29.94	19.25	-18.28	0.1
4500.0	0.36	S58.97°W	4499.69	29.67	18.71	-17.75	0.1
4600.0	0.49	S51.53°W	4599.68	29.25	18.11	-17.16	0.1
4700.0	0.41	S60.25°W	4699.68	28.80	17.46	-16.53	0.1
4800.0	0.57	S57.49°W	4799.68	28.36	16.73	-15.82	0.2
4900.0	0.51	S73.15°W	4899.67	27.96	15.89	-14.98	0.2
5000.0	0.53	S62.22°W	4999.67	27.62	15.05	-14.16	0.1
5100.0	0.55	S70.53°W	5099.66	27.24	14.19	-13.31	0.1
5200.0	0.54	S60.43°W	5199.66	26.85	13.33	-12.46	0.1
5300.0	0.49	S60.32°W	5299.65	26.40	12.55	-11.69	0.0
5400.0	0.57	S57.34°W	5399.65	25.92	11.76	-10.92	0.1
5500.0	0.47	S55.37°W	5499.65	25.42	11.00	-10.18	0.1
5600.0	0.58	S56.51°W	5599.64	24.91	10.24	-9.44	0.1
5700.0	0.61	S52.97°W	5699.64	24.31	9.39	-8.61	0.0
5800.0	0.67	S56.10°W	5799.63	23.66	8.48	-7.72	0.1
5900.0	0.76	S52.75°W	5899.62	22.94	7.47	-6.73	0.1
6000.0	0.73	S49.40°W	5999.61	22.12	6.46	-5.75	0.1
6100.0	0.73	S52.69°W	6099.61	21.32	5.47	-4.78	0.0
6200.0	0.70	S48.18°W	6199.60	20.53	4.51	-3.85	0.1
6300.0	0.69	S50.40°W	6299.59	19.73	3.59	-2.95	0.0
6400.0	0.65	S49.63°W	6399.58	18.98	2.69	-2.08	0.0
6500.0	0.62	S38.73°W	6499.58	18.19	1.92	-1.34	0.1
6600.0	0.72	S35.32°W	6599.57	17.26	1.22	-0.66	0.1
6700.0	0.73	S40.34°W	6699.56	16.26	0.44	0.00	0.1
6800.0	0.71	S49.64°W	6799.56	15.37	-0.44	0.93	0.1
6900.0	0.72	S46.98°W	6899.55	14.54	-1.37	1.84	0.0
7000.0	0.86	S56.97°W	6999.54	13.71	-2.46	2.90	0.2
7100.0	0.87	S59.29°W	7099.53	12.91	-3.74	4.16	0.0
7200.0	0.98	S58.09°W	7199.51	12.07	-5.12	5.51	0.1
7300.0	1.19	S61.17°W	7299.50	11.12	-6.76	7.11	0.2
7400.0	1.38	S61.95°W	7399.47	10.05	-8.73	9.05	0.2
7500.0	1.38	S63.54°W	7499.44	8.95	-10.87	11.15	0.0
7600.0	1.51	S65.84°W	7599.41	7.87	-13.15	13.40	0.1
7700.0	1.51	S68.29°W	7699.38	6.85	-15.58	15.79	0.1
7800.0	1.68	S64.90°W	7799.34	5.74	-18.13	18.30	0.2
7900.0	1.95	S70.84°W	7899.29	4.56	-21.06	21.20	0.3

SCIENTIFIC DRILLING INTERNATIONAL

Client : ENRON OIL & GAS
Well Name : GREENBACK STATE 7 #1
Location : LEA COUNTY, NM

Page 3 of 3
Date 20 DECEMBER 1997
Filename : GRNBCK#1

SHL :

BHL :

ACTUAL BHL :

No Interpolation

Height Of WELLSITE Datum Above Field Datum 0.00 ft

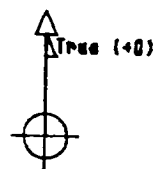
MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
8000.0	1.90	S69.74°W	7999.23	3.42	-24.23	24.32	0.1
8100.0	2.15	S66.27°W	8099.17	2.09	-27.50	27.55	0.3
8175.0	2.18	S66.67°W	8174.11	0.96	-30.10	30.11	0.0

Origin of Bottom Hole Closure WELLSITE CENTRE

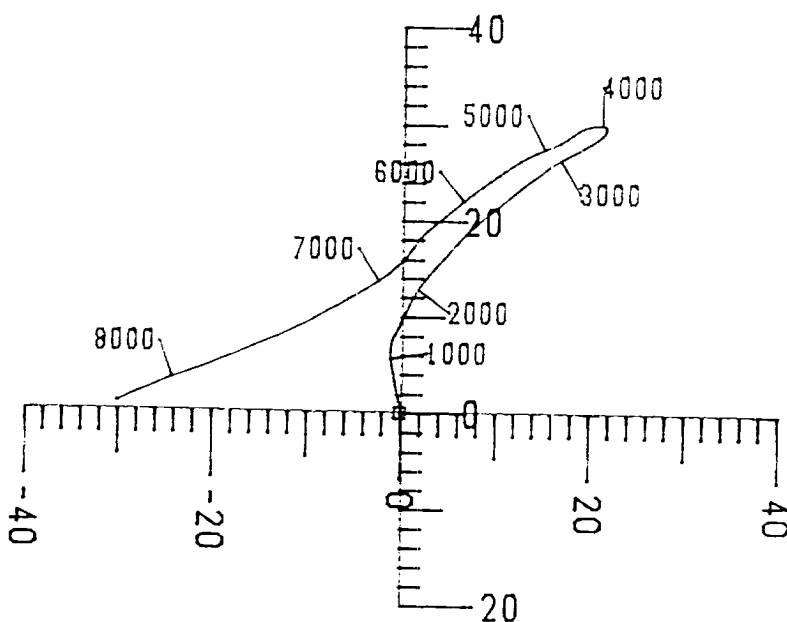
Bottom Hole Closure 30 ft N88.17°W



SCIENTIFIC DRILLING
FOR
ENRON OIL & GAS
GREENBACK STATE 7 B1
IN
LEA COUNTY, TEXAS



Latitude Scale 1 inch = 20 ft



Departure Scale 1 inch = 20 ft

* *

* SCHLUMBERGER *

DIRETIONAL SURVEY

COMPANY : Enron Oil & Gas Company

WELL : Greenback State 7 #1

FIELD : Wildcat

COUNTRY : USA

RUN : One

REFERENCE : 79181

DATE LOGGED : 16-JAN-1998

DAY : 14

MONTH : JAN

YEAR : 1999

SURVEY IS COMPUTED FROM 11565 TO 100

DIRECTIONAL DATA SUPPLIED BY CLIENT FROM 6300 TO 100

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REF      FS3A.                                     PAGE      1
*****
*  MEAS.      *      *      *  TRUE      *      *  COORDINATES      *      *  DOG-L
*  DEPTH      *  DEVIATION *  AZIMUTH *  VERTICAL ***** COURSE *  SEVERI
*  FT         *  DEGREES  *  DEGREES *  DEPTH  *  + NORTH *  + EAST *  LENGTH *
*            *          *          *  FT      *  - SOUTH *  - WEST *    FT    *  DEG/10
*****
*   100.0 *    0.1 *    12 *   100.0 *    0.0 *    0.0 *    0.0 *    0.0
*   500.0 *    0.5 *   284 *   500.0 *    0.8 *   -1.0 *    1.3 *    0.1
*  1000.0 *    0.4 *   280 *  1000.0 *    1.6 *   -5.1 *    5.3 *    0.3
*  1500.0 *    0.4 *    28 *  1500.0 *    4.3 *   -4.6 *    6.3 *    0.1
*  2000.0 *    0.6 *    35 *  1999.9 *    8.4 *   -2.5 *    8.8 *    0.1
*  2500.0 *    1.4 *    47 *  2499.9 *   14.8 *    3.1 *   15.2 *    0.2
*  3000.0 *    0.9 *    58 *  2999.7 *   22.1 *   12.5 *   25.4 *    0.2
*  3500.0 *    0.3 *    54 *  3499.7 *   24.7 *   16.9 *   29.9 *    0.0
*  4000.0 *    0.2 *   358 *  3999.7 *   25.8 *   16.8 *   30.8 *    0.1
*  4500.0 *    0.4 *   239 *  4499.7 *   25.5 *   14.6 *   29.3 *    0.1
*  5000.0 *    0.5 *   242 *  4999.7 *   23.4 *   10.9 *   25.8 *    0.0
*  5500.0 *    0.5 *   235 *  5499.6 *   21.2 *    6.8 *   22.3 *    0.0
*  6000.0 *    0.7 *   229 *  5999.6 *   17.9 *    2.3 *   18.0 *    0.0
*  6500.0 *    0.7 *   229 *  6499.6 *   14.3 *   -2.9 *   14.5 *    0.1
*  7000.0 *    0.8 *   223 *  6999.5 *    8.5 *   -7.2 *   11.1 *    0.1
*  7500.0 *    1.7 *   246 *  7499.4 *    2.4 *  -15.2 *   15.4 *    0.3
*  8000.0 *    2.2 *   250 *  7999.1 *   -4.0 *  -31.1 *   31.4 *    0.0
*  8500.0 *    3.9 *   229 *  8498.6 *  -13.9 *  -51.9 *   53.8 *    1.0
*  9000.0 *    5.2 *   222 *  8996.7 *  -44.4 *  -81.8 *   93.1 *    0.1
*  9500.0 *    5.9 *   212 *  9494.3 *  -83.8 * -111.1 *  139.2 *    0.2
* 10000.0 *    6.2 *   202 *  9991.5 * -131.0 * -135.3 *  188.3 *    0.1
* 10500.0 *    6.5 *   205 * 10488.5 * -180.6 * -157.4 *  239.5 *    0.3
* 11000.0 *    8.4 *   204 * 10984.8 * -236.2 * -181.0 *  297.6 *    0.1
* 11500.0 *   10.2 *   204 * 11478.4 * -309.2 * -212.5 *  375.2 *    0.8
* 11565.0 *    9.8 *   205 * 11542.4 * -319.4 * -217.2 *  386.3 *    0.0
*****
*
*      BOTTOM HOLE LOCATION
*
*      COURSE LENGTH          386.3    FT
*
*      COURSE AZIMUTH         214.2    DEGREES
*
*      MEASURED DEPTH          11565.0  FT
*
*      TRUE VERTICAL DEPTH     11542.4  FT
*
*      DISTANCE SOUTH          319.4    FT
*
*      DISTANCE WEST           217.2    FT
*
*
*      EXACT RADIUS OF CURVATURE METHOD
*
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