

WRS COMPLETION REPORTREISSUES
PI# 30-T-0008 07/31/89 SEC 25 TWP 26S RGE 34E
30-025-29808-0000 PAGE 1NMEX LEA * 1980FSL 1980FEL SEC NW SE
STATE COUNTY FOOTAGE SPOT
BROWN TOM INC WF WFD
OPERATOR WELL CLASS INIT FIN
1 MADERA "25" FEDERAL
WELL NO. LEASE NAME
3222KB 3189GR PITCHFORK RANCH E
OPER ELEV FIELD POOL AREA
API 30-025-29808-0000LEASE TYPE NO. PERMIT OR WELL I.D. NO.
12/30/1986 06/11/1987 ROTARY GAS
SPUD DATE COMP. DATE TYPE TOOL STATUS
22500 ATOKA TMBR SHARP DRLG 55 RIG SUB 32
PROJ. DEPTH PROJ. FORM CONTRACTOR
DTD 22500 PB 20000 FM/TD ELLNBRGR
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.**LOCATION DESCRIPTION**

52 MI SE HALFWAY, NM

WELL IDENTIFICATION/CHANGESPROJ FM CHGD FROM ELLENBURGER
FIELD CHGD FROM WILDCAT**CASING/LINER DATA**CSG 20 @ 1044 W/ 2250 SACKS
CSG 13 3/8 @ 5260 W/ 1800 SACKS
CSG 9 3/4 @ 13463 W/ 4550 SACKS
LNR 7 3/4 13155-18716 W/ 850S
LNR 5 18316-22500 W/ 500S**TUBING DATA**

TBG 2 7/8 AT 14523

INITIAL POTENTIALIPF 592 MCFD 24/64CK 24HRS
ATOKA SD PERF W/ 4/FT 15356-15372
TP 160

GOR DRY

P/L CON NONE
FIELD/RESERVOIR
/ATOKA

POT BASED ON 7 HR TEST, FLWD 172.7 MCFG

CONTINUED IC# 300257034686

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BROWN TOM INC
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MADERA "25" FEDERAL

WF WFD

INITIAL POTENTIAL

FCP PKR
GTY (GAS)-NO DETAILS

TYPE	FORMATION	LTH	TOP	DEPTH/SUB	BSE	DEPTH/SUB
LOG	SALT		1031	2191		
LOG	DELWR LM		5368	-2146		
LOG	DELWR SD		5391	-2169		
LOG	BONE SPG		9449	-6227		
LOG	WOLFCAMP		12553	-9331		
LOG	STRAWN		14640	-11418		
LOG	ATOKA		15277	-12055		
LOG	ATOKA SD		15355	-12133		
LOG	ATOKA LS		15526	-12304		
LOG	MORROW		16108	-12886		
LOG	BARNETT		17032	-13810		
LOG	MSSP LM		18696	-15474		
LOG	WOODFORD SH		19070	-15848		
LOG	DEVONIAN		19308	-16086		
LOG	SILURIAN		20112	-16890		
LOG	FUSSELMN		20348	-17126		
LOG	MONTOYA		20748	-17526		
LOG	SIMPSON		21212	-17990		
LOG	ELLNBRGR		22120	-18898		

SUBSEA MEASUREMENTS FROM KB

PRODUCTION TEST DATA

ELLNBRGR PERF 22136-22466 GROSS
PERF 22136,22142,22150,22159,22170,22180,22188,22205
PERF 22210,22216,22236,22248,22257,22264,22270,22280
PERF 22296,22313,22323,22336,22352,22362,22375,22380
PERF 22386,22395,22406,22414,22428,22432,22444,22458
PERF 22466
ACID 22136-22466 60000GALS

BRPG @22014 MOD-101 W/1000000 CFT
22136-22466 ADDTVNTGN

FUSSELMN PERF W/ 2/FT 20527-20572 GROSS
PERF 20527-20545 20557-20572
SQZD W/ 175S 20527-20572

CONTINUED

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BROWN TOM INC
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MADERA "25" FEDERAL

WF WFD

DRILLING PROGRESS DETAILS

04/06 DRLG 18718
04/10 DRLG 19121
04/21 DRLG, NO DETAILS
04/27 DRLG BELOW 21942
05/06 22500 TD, WOCT
05/22 22500 TD, TITE HOLE
06/17 22500 TD, PB 20000, WOPT
07/02 22500 TD, PB 20000, WO STATE FORMS
08/13 22500 TD, PB 20000, WO STATE FORMS
09/24 22500 TD, PB 20000, WO STATE FORMS
10/14 22500 TD, PB 20000, WO STATE FORMS
11/05 22500 TD, PB 20000, WO STATE FORMS
12/17 22500 TD, PB 20000, WO STATE FORMS
03/01 22500 TD, PB 20000, WO STATE FORMS
04/29 22500 TD, PB 20000, WO STATE FORMS
05/27 22500 TD, PB 20000, WO STATE FORMS
06/29 22500 TD, PB 20000, WO STATE FORMS
07/29 22500 TD, PB 20000, WO STATE FORMS
08/08 22500 TD, PB 20000, WO STATE FORMS
08/08 OPER FILED 11/12/87 COMPLETION WITH BLM. IT HAS
BEEN HELD CONFIDENTIAL SINCE THAT TIME OPER FILED
COMPLETION WITH NM OCD ABOUT 7/28/88. OCD IS
PRESENTLY HOLDING CONFIDENTIAL AT OPERATORS
REQUEST
09/29 22500 TD, PB 20000, WO STATE FORMS
10/27 22500 TD, PB 20000, WO STATE FORMS
TD REACHED 04/28/87
11/02 22500 TD, PB 20000
COMP 6/11/87, IPF 592 MCFGPD, 24/64 CK,
GOR DRY, GTY (GAS) (NR),
FTP 160, FCP PKR
PROD ZONE - ATOKA 15356-15372
TITE HOLE
11/02 ATOKA DISCOVERY - NEW FIELD
07/25 REISSUED TO CORRECT PROD TESTS
REPLACEMENT FOR CT ISSUED 11/7/88

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BROWN TOM INC
1 MADERA "25" FEDERAL WF WFD

PRODUCTION TEST DATA

NO TREATMENT OR GGE RPTD
CMT RET @ 20500

FUSSELMN PERF 20418-20458
PERF 20418-20458
BRPG @18275 20418-20458
NO TREATMENT OR GGE RPTD

ATOKA SD PERF W/ 4/FT 15356-15372
PERF 15356-15372
WFR 15356-15372 4000GALS
5000 GALS N-VER-SPERSE-O

STRAWN PERF W/ 2/FT 14674-14696
PERF 14674-14696
CSPK 14674-14696
NO TREATMENT OR GGE RPTD

DRILLING MEDIA /TYPE,DEPTH/

6110 9.0 9122 9.3 11367 9.2 13470 9.3 PPG

DRILLING PROGRESS DETAILS

BROWN TOM INC
BOX 2608
MIDLAND, TX 79702
915-682-9715
12/04 LOC/1986/
01/05 1044 TD, WOC
01/09 DRLG 3660
01/16 DRLG 6110, VIS 28
01/23 DRLG 9122, VIS 28
01/30 DRLG 11367, VIS 28
02/06 13470 TD, TOH, VIS 28
02/13 DRLG 13570
02/20 DRLG 14874
02/27 DRLG 15503
03/05 DRLG 15964
03/18 DRLG BELOW 16577
03/20 DRLG 17050
03/27 DRLG 18275

CONTINUED

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+-----11:41:5-----+
|12/31/1997                POOL DATA                11:41:54|
+-----+
|POOLCODE:  LWOL96776    POOL NAME: WILDCAT S263425J;WOLFCAMP (GAS)|
|POOL ID:  96776|
|TYPE OF POOL: GAS  IF OIL IS IT AN ASSOCIATED POOL: F  STATUS ACTIVE|
|DEPTH BRACKET: 13-14    REQUIRED DEDICATED ACREAGE:  OIL 40    GAS 320|
|GOR LIMIT: 99999|
|TEST: REQUIRED  F  GAS F  OIL/GAS RECLASSIFY:  GOR 100000  GRAVITY 99|
|
|      R ORDER FOR SPECIAL RULES
|
|TOP OIL ALLOWABLE:  999    TOP CASINGHEAD GAS ALLOW: 9999  GAS ALLOW: 9999|
|- WELL COUNT NMOCD DIST I -----|
|      PROD      INJ      SI      TA      DRLNG      ZA      P&A|
|DATE      WELLS      WELLS      WELLS      WELLS      WELLS      WELLS      WELLS|
|/  /              0              0              0              0              0              0|
+-----+

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|RECORD # 28562                WELL DATA                12/31/1997 11:44:45 am|
+-----+
|API: 30-025-29808 OPERATOR: TRANSGLOBE OIL & GAS CORPORATION|
|      LEASE NAME: MADERA 25 FEDERAL                                # 1|
|      UNIT NAME:|
|POOLCODE: LWOL96776 POOL NAME:  WILDCAT S263425J;WOLFCAMP (GAS)|
+-----+
|
|      u/l sec township range    north/south    east/west
|SURFACE LOCATION:  J  25    T 26 S  R 34 E    FTG 1980 FS  FTG 1980 FE
|BOTTOM HOLE LOC:   I  25    T 26 S  R 34 E
|
|
|TYPE WELL: GAS  STATUS: P    COMP. CODE: S01  SHARE: F  TD: 15700
|      LAND TYPE F
+-----+

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... C-10
Subversive
Effective)

Ronald J. Eidson
Certificate No. JOHN W. WEST,
RONALD J. EIDSON

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***** DEPTH MEASURED IN FEET *****
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COMMENTS: GYRO 110 DECL 10E
PROBE 214-2 INC 113
RIG SAHRP #55
CO REP JOE THOMPSON

THIS DIRECTIONAL SURVEY REPORT IS
CORRECT TO THE BEST OF MY KNOWLEDGE
AND IS SUPPORTED BY ACTUAL FIELD DATA!


COMPANY REPRESENTATIVE

DIRECTIONAL SURVEY, INC.
CORPUS CHRISTI, TEXAS

JOB NUMBER:

WELL NAME: MADERA FEDERAL 25 #1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
100.0	100.00	-0.10	0.260	00.32	201.17	0.26 S 0.10 W	0.32	0.32	0.28	AT 201.17
200.0	200.00	-0.29	0.581	00.12	235.12	0.58 S 0.29 W	0.23	0.23	0.65	AT 206.35
300.0	300.00	-0.32	0.950	00.36	170.50	0.95 S 0.32 W	0.33	0.33	1.00	AT 198.70
400.0	400.00	-0.50	1.449	00.34	230.42	1.45 S 0.50 W	0.35	0.35	1.53	AT 198.98
500.0	500.00	-0.73	1.734	00.11	179.58	1.73 S 0.73 W	0.28	0.28	1.88	AT 202.73
600.0	599.99	-1.05	1.877	00.37	261.62	1.88 S 1.05 W	0.37	0.37	2.15	AT 209.10
700.0	699.99	-1.48	1.689	00.30	334.11	1.69 S 1.48 W	0.40	0.40	2.24	AT 221.21
800.0	799.99	-1.90	1.092	00.54	320.13	1.09 S 1.90 W	0.26	0.26	2.19	AT 240.06
900.0	899.99	-2.60	0.489	00.54	300.84	0.49 S 2.60 W	0.18	0.18	2.65	AT 259.37
1000.0	999.98	-3.12	0.105	00.21	320.79	0.11 S 3.12 W	0.35	0.35	3.12	AT 268.07
1100.0	1099.98	-3.43	-0.410	00.48	332.82	0.41 N 3.43 W	0.28	0.28	3.45	AT 276.81
1200.0	1199.98	-3.60	-0.903	00.14	008.46	0.90 N 3.60 W	0.38	0.38	3.71	AT 284.07
1300.0	1299.98	-3.87	-1.143	00.35	293.00	1.14 N 3.87 W	0.34	0.34	4.03	AT 286.47
1400.0	1399.98	-4.26	-1.582	00.39	339.82	1.58 N 4.26 W	0.30	0.30	4.55	AT 290.35
1500.0	1499.98	-4.38	-2.085	00.21	000.52	2.08 N 4.38 W	0.21	0.21	4.85	AT 295.45
1600.0	1599.98	-4.48	-2.161	00.17	223.70	2.16 N 4.48 W	0.35	0.35	4.98	AT 295.74
1700.0	1699.98	-4.87	-2.138	00.34	286.51	2.14 N 4.87 W	0.30	0.30	5.32	AT 293.71
1800.0	1799.97	-5.25	-2.435	00.27	334.61	2.43 N 5.25 W	0.26	0.26	5.79	AT 294.87
1900.0	1899.97	-5.29	-2.892	00.29	015.52	2.89 N 5.29 W	0.20	0.20	6.03	AT 298.68
2000.0	1999.97	-4.99	-3.119	00.26	094.08	3.12 N 4.99 W	0.35	0.35	5.89	AT 301.99
2100.0	2099.97	-4.76	-3.109	00.01	045.86	3.11 N 4.76 W	0.25	0.25	5.69	AT 303.15
2200.0	2199.97	-4.63	-3.137	00.14	079.68	3.14 N 4.63 W	0.13	0.13	5.60	AT 304.10
2300.0	2299.97	-4.46	-3.423	00.31	012.23	3.42 N 4.46 W	0.29	0.29	5.62	AT 307.53
2400.0	2399.97	-4.29	-4.030	00.41	017.26	4.03 N 4.29 W	0.10	0.10	5.89	AT 313.19
2500.0	2499.97	-3.81	-4.654	00.54	053.07	4.65 N 3.81 W	0.32	0.32	6.02	AT 320.70
2600.0	2599.96	-3.15	-5.084	00.37	062.97	5.08 N 3.15 W	0.19	0.19	5.98	AT 328.25
2700.0	2699.96	-2.69	-5.528	00.39	029.09	5.53 N 2.69 W	0.22	0.22	6.15	AT 334.03
2800.0	2799.96	-2.16	-6.346	00.73	035.22	6.35 N 2.16 W	0.34	0.34	6.70	AT 341.20
2900.0	2899.95	-1.41	-7.408	00.76	035.26	7.41 N 1.41 W	0.03	0.03	7.54	AT 349.23
3000.0	2999.94	-0.58	-8.528	00.84	037.86	8.53 N 0.58 W	0.09	0.09	8.55	AT 356.13
3100.0	3099.93	0.27	-9.817	00.93	029.01	9.82 N 0.27 E	0.16	0.16	9.82	AT 001.55
3200.0	3199.91	1.18	-11.283	01.05	034.36	11.28 N 1.18 E	0.15	0.15	11.34	AT 005.96
3300.0	3299.89	2.25	-12.847	01.12	034.30	12.85 N 2.25 E	0.07	0.07	13.04	AT 009.91
3400.0	3399.87	3.30	-14.522	01.15	030.18	14.52 N 3.30 E	0.09	0.09	14.89	AT 012.80
3500.0	3499.85	4.29	-16.358	01.24	026.44	16.36 N 4.29 E	0.12	0.12	16.91	AT 014.68
3600.0	3599.83	5.16	-18.259	01.16	022.92	18.26 N 5.16 E	0.11	0.11	18.97	AT 015.79

DIRECTIONAL SURVEY, INC.
CORPUS CHRISTI, TEXAS

JOB NUMBER:

WELL NAME: MADERA FEDERAL 25 #1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
3700.0	3699.81	5.95	-20.076	01.11	024.10	20.08 N	5.95 E	0.06	0.06	20.94	AT 016.51
3800.0	3799.80	6.62	-21.602	00.80	023.06	21.60 N	6.62 E	0.31	0.31	22.59	AT 017.04
3900.0	3899.79	6.90	-22.707	00.53	000.94	22.71 N	6.90 E	0.37	0.37	23.73	AT 016.91
4000.0	3999.79	6.75	-23.430	00.35	328.52	23.43 N	6.75 E	0.30	0.30	24.38	AT 016.07
4100.0	4099.79	6.37	-23.922	00.37	315.85	23.92 N	6.37 E	0.08	0.08	24.75	AT 014.90
4200.0	4199.78	6.10	-24.667	00.59	355.84	24.67 N	6.10 E	0.39	0.39	25.41	AT 013.90
4300.0	4299.77	5.73	-25.902	00.91	335.30	25.90 N	5.73 E	0.41	0.41	26.53	AT 012.48
4400.0	4399.76	5.13	-27.433	00.98	341.16	27.43 N	5.13 E	0.12	0.12	27.91	AT 010.58
4500.0	4499.75	4.69	-29.020	00.91	348.40	29.02 N	4.69 E	0.14	0.14	29.40	AT 009.18
4600.0	4599.73	4.60	-30.589	00.91	005.00	30.59 N	4.60 E	0.26	0.26	30.93	AT 008.55
4700.0	4699.72	5.15	-32.311	01.20	027.25	32.31 N	5.15 E	0.50	0.50	32.72	AT 009.05
4800.0	4799.69	6.48	-34.042	01.34	046.85	34.04 N	6.48 E	0.45	0.45	34.65	AT 010.78
4900.0	4899.65	8.46	-36.010	01.86	043.95	36.01 N	8.46 E	0.53	0.53	36.99	AT 013.22
5000.0	4999.60	11.02	-38.268	02.06	052.69	38.27 N	11.02 E	0.36	0.36	39.82	AT 016.06
5100.0	5099.54	13.74	-40.151	01.74	058.48	40.15 N	13.74 E	0.37	0.37	42.44	AT 018.89
5200.0	5199.50	16.27	-41.692	01.66	058.90	41.69 N	16.27 E	0.08	0.08	44.76	AT 021.32
5300.0	5299.47	18.33	-42.916	01.08	059.68	42.92 N	18.33 E	0.58	0.58	46.67	AT 023.13
5400.0	5399.45	19.83	-43.806	00.92	058.98	43.81 N	19.83 E	0.16	0.16	48.08	AT 024.36
5500.0	5499.44	21.47	-44.453	01.12	076.19	44.45 N	21.47 E	0.36	0.36	49.36	AT 025.78
5600.0	5599.42	23.26	-44.957	01.02	072.31	44.96 N	23.26 E	0.12	0.12	50.62	AT 027.36
5700.0	5699.40	25.05	-45.572	01.14	069.72	45.57 N	25.05 E	0.13	0.13	52.00	AT 028.79
5800.0	5799.39	26.80	-46.224	01.01	069.61	46.22 N	26.80 E	0.13	0.13	53.43	AT 030.11
5900.0	5899.37	28.30	-46.641	00.78	080.70	46.64 N	28.30 E	0.29	0.29	54.56	AT 031.25
6000.0	5999.36	29.85	-47.007	01.05	073.74	47.01 N	29.85 E	0.29	0.29	55.69	AT 032.42
6100.0	6099.35	31.40	-47.505	00.81	070.03	47.51 N	31.40 E	0.25	0.25	56.94	AT 033.46
6200.0	6199.33	32.92	-47.795	00.98	086.75	47.80 N	32.92 E	0.31	0.31	58.03	AT 034.55
6300.0	6299.32	34.57	-47.907	00.92	085.47	47.91 N	34.57 E	0.06	0.06	59.08	AT 035.81
6400.0	6399.31	36.02	-48.269	00.82	065.33	48.27 N	36.02 E	0.32	0.32	60.23	AT 036.73
6500.0	6499.30	37.38	-48.699	00.83	079.62	48.70 N	37.38 E	0.21	0.21	61.39	AT 037.51
6600.0	6599.29	38.71	-48.753	00.71	097.05	48.75 N	38.71 E	0.26	0.26	62.25	AT 038.45
6700.0	6699.28	39.87	-48.578	00.64	100.24	48.58 N	39.87 E	0.08	0.08	62.85	AT 039.38
6800.0	6799.28	41.11	-48.506	00.79	087.67	48.51 N	41.11 E	0.22	0.22	63.59	AT 040.28
6900.0	6899.27	42.32	-48.422	00.61	102.24	48.42 N	42.32 E	0.25	0.25	64.31	AT 041.15
7000.0	6999.26	43.41	-48.328	00.65	088.07	48.33 N	43.41 E	0.16	0.16	64.96	AT 041.93
7100.0	7099.26	44.51	-48.511	00.64	072.94	48.51 N	44.51 E	0.17	0.17	65.84	AT 042.54
7200.0	7199.25	45.33	-48.838	00.38	060.39	48.84 N	45.33 E	0.28	0.28	66.63	AT 042.87

DIRECTIONAL SURVEY, INC.
CORPUS CHRISTI, TEXAS

JOB NUMBER:

WELL NAME: MADERA FEDERAL 25 #1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE DEPARTURE		D-LEG /100	D-LEG /CL	STATION DISPLACEMENT DISP. DIRECTION	
7300.0	7299.25	45.31	-48.957	00.34	098.83	48.96 N	45.91 E	0.24	0.24	67.12 AT	043.16
7400.0	7399.25	46.52	-48.813	00.38	107.22	48.81 N	46.52 E	0.07	0.07	67.43 AT	043.62
7500.0	7499.25	47.14	-48.541	00.40	119.88	48.54 N	47.14 E	0.09	0.09	67.67 AT	044.16
7600.0	7599.24	47.80	-48.224	00.44	111.80	48.22 N	47.80 E	0.07	0.07	67.90 AT	044.75
7700.0	7699.24	48.33	-47.849	00.33	143.88	47.85 N	48.33 E	0.24	0.24	68.01 AT	045.29
7800.0	7799.24	48.62	-47.374	00.31	153.77	47.37 N	48.62 E	0.06	0.06	67.88 AT	045.74
7900.0	7899.24	48.77	-46.906	00.26	172.20	46.91 N	48.77 E	0.10	0.10	67.66 AT	046.11
8000.0	7999.24	49.00	-46.303	00.49	152.44	46.30 N	49.00 E	0.26	0.26	67.41 AT	046.62
8100.0	8099.23	49.35	-45.524	00.49	159.20	45.52 N	49.35 E	0.06	0.06	67.14 AT	047.31
8200.0	8199.23	49.95	-44.591	00.80	139.74	44.59 N	49.95 E	0.38	0.38	66.96 AT	048.24
8300.0	8299.22	50.62	-43.534	00.65	157.62	43.53 N	50.62 E	0.27	0.27	66.76 AT	049.30
8400.0	8399.21	51.33	-42.314	00.98	144.36	42.31 N	51.33 E	0.38	0.38	66.52 AT	050.50
8500.0	8499.20	52.10	-40.884	00.90	159.50	40.88 N	52.10 E	0.26	0.26	66.23 AT	051.88
8600.0	8599.19	52.66	-39.643	00.66	151.25	39.64 N	52.66 E	0.26	0.26	65.91 AT	053.02
8700.0	8699.18	53.09	-38.649	00.59	161.93	38.65 N	53.09 E	0.14	0.14	65.67 AT	053.95
8800.0	8799.17	53.36	-37.487	00.78	171.29	37.49 N	53.36 E	0.22	0.22	65.21 AT	054.91
8900.0	8899.17	53.68	-36.290	00.65	157.49	36.29 N	53.68 E	0.21	0.21	64.79 AT	055.94
9000.0	8999.16	53.98	-35.537	00.28	159.59	35.54 N	53.98 E	0.37	0.37	64.63 AT	056.64
9100.0	9099.16	54.26	-34.970	00.45	149.23	34.97 N	54.26 E	0.18	0.18	64.56 AT	057.20
9200.0	9199.16	54.50	-34.294	00.39	174.91	34.29 N	54.50 E	0.20	0.20	64.39 AT	057.82
9300.0	9299.15	54.80	-33.488	00.62	149.66	33.49 N	54.80 E	0.31	0.31	64.22 AT	058.57
9400.0	9399.15	55.28	-32.511	00.63	158.17	32.51 N	55.28 E	0.09	0.09	64.13 AT	059.54
9500.0	9499.14	55.98	-31.533	00.78	133.36	31.53 N	55.98 E	0.34	0.34	64.25 AT	060.61
9600.0	9599.13	56.96	-30.355	00.99	145.37	30.35 N	56.96 E	0.28	0.28	64.54 AT	061.95
9700.0	9699.11	58.04	-28.898	01.09	141.68	28.90 N	58.04 E	0.12	0.12	64.84 AT	063.53
9800.0	9799.09	59.28	-27.361	01.17	140.72	27.36 N	59.28 E	0.08	0.08	65.29 AT	065.22
9900.0	9899.07	60.53	-25.983	00.97	133.98	25.98 N	60.53 E	0.24	0.24	65.87 AT	066.77
10000.0	9999.06	61.81	-25.089	00.84	114.70	25.09 N	61.81 E	0.33	0.33	66.71 AT	067.91
10100.0	10099.05	63.18	-24.600	00.83	104.57	24.60 N	63.18 E	0.15	0.15	67.80 AT	068.72
10200.0	10199.04	64.59	-24.284	00.83	100.63	24.28 N	64.59 E	0.06	0.06	69.00 AT	069.39
10300.0	10299.03	65.94	-24.155	00.73	089.61	24.16 N	65.94 E	0.18	0.18	70.22 AT	069.88
10400.0	10399.02	67.35	-24.153	00.89	090.50	24.15 N	67.35 E	0.16	0.16	71.55 AT	070.27
10500.0	10499.01	68.94	-24.476	01.01	068.02	24.48 N	68.94 E	0.39	0.39	73.16 AT	070.45
10600.0	10598.99	70.54	-25.216	01.01	062.26	25.22 N	70.54 E	0.10	0.10	74.91 AT	070.33
10700.0	10698.99	71.52	-25.824	00.32	044.89	25.82 N	71.52 E	0.71	0.71	76.04 AT	070.15
10800.0	10798.98	71.48	-25.764	00.40	222.35	25.76 N	71.48 E	0.72	0.72	75.98 AT	070.18

DIRECTIONAL SURVEY, INC.
CORPUS CHRISTI, TEXAS

JOB NUMBER:

WELL NAME: MADERA FEDERAL 25 #1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	L/R PROP.	INCL	BEARING AZIMUTH	COORDINATES LATITUDE	DEPARTURE	D-LEG /100	D-LEG /CL	STATION DISP.	DISPLACEMENT DIRECTION
10900.0	10898.98	70.85	-25.265	00.53	238.49	25.26 N	70.85 E	0.18	0.18	75.22 AT	070.37
11000.0	10998.97	69.69	-24.546	01.04	238.32	24.55 N	69.69 E	0.51	0.51	73.88 AT	070.60
11100.0	11098.95	68.29	-23.400	01.05	223.03	23.40 N	68.29 E	0.28	0.28	72.19 AT	071.09
11200.0	11198.94	66.95	-22.237	00.99	235.24	22.24 N	66.95 E	0.23	0.23	70.55 AT	071.63
11300.0	11298.92	65.50	-21.380	00.95	243.89	21.38 N	65.50 E	0.15	0.15	68.90 AT	071.92
11400.0	11398.91	64.02	-20.734	00.90	248.97	20.73 N	64.02 E	0.10	0.10	67.29 AT	072.06
11500.0	11498.90	62.72	-20.314	00.67	256.38	20.31 N	62.72 E	0.25	0.25	65.93 AT	072.05
11600.0	11598.89	61.33	-19.814	01.03	246.22	19.81 N	61.33 E	0.39	0.39	64.45 AT	072.10
11700.0	11698.88	59.73	-19.228	00.93	254.04	19.23 N	59.73 E	0.17	0.17	62.75 AT	072.15
11800.0	11798.86	58.23	-18.511	01.00	235.47	18.51 N	58.23 E	0.32	0.32	61.10 AT	072.36
11900.0	11898.85	56.77	-17.752	00.90	250.38	17.75 N	56.77 E	0.27	0.27	59.48 AT	072.63
12000.0	11998.83	55.00	-17.183	01.23	253.48	17.18 N	55.00 E	0.33	0.33	57.62 AT	072.65
12100.0	12098.81	53.15	-16.570	01.01	249.54	16.57 N	53.15 E	0.23	0.23	55.67 AT	072.68
12200.0	12198.80	51.60	-15.777	00.99	235.87	15.78 N	51.60 E	0.24	0.24	53.96 AT	073.00
12300.0	12298.78	50.18	-14.771	01.01	233.74	14.77 N	50.18 E	0.04	0.04	52.31 AT	073.60
12400.0	12398.77	48.76	-13.852	00.93	240.63	13.85 N	48.76 E	0.14	0.14	50.69 AT	074.14
12500.0	12498.75	47.07	-13.023	01.23	246.31	13.02 N	47.07 E	0.32	0.32	48.84 AT	074.53
12600.0	12598.73	45.39	-12.131	00.96	236.67	12.13 N	45.39 E	0.33	0.33	46.98 AT	075.04
12700.0	12698.71	43.72	-11.207	01.23	244.38	11.21 N	43.72 E	0.31	0.31	45.13 AT	075.62
12800.0	12798.69	41.87	-10.136	01.23	235.59	10.14 N	41.87 E	0.19	0.19	43.08 AT	076.39
12900.0	12898.67	40.08	-8.889	01.27	234.72	8.89 N	40.08 E	0.04	0.04	41.05 AT	077.49
12915.0	12913.66	39.77	-8.673	01.61	235.17	8.67 N	39.77 E	2.27	0.34	40.70 AT	077.70

*
* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *
*
* 12915.0 FEET EQUALS 40.70 FEET AT 077.70 *
*

DIG
MIDLAND

JOB NUMBER: M-2688

WELL NAME: MADERA FED. 25 #1

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	BEARING	COORDINATES		D-LEG /100	D-LEG /CL	STATION DISPLACEMENT	
					LATITUDE	DEPARTURE			DISP.	DIRECTION
12915.0	12913.66	39.77	01.61	S55.17W	8.67 N	39.77 E	0.00		40.70	AT N77.70E
12965.0	12963.65	30.45	01.50	S71.00E	8.06 N	39.81 E	5.55	2.77	40.62	AT N78.56E
13059.0	13057.63	32.43	01.00	S40.00E	7.03 N	41.50 E	0.88	0.82	42.09	AT N80.39E
13152.0	13150.57	33.19	03.75	N30.00E	9.04 N	43.55 E	4.51	4.20	44.47	AT N78.27E
13246.0	13244.40	37.19	05.00	S47.00E	8.91 N	48.08 E	7.33	6.89	48.90	AT N79.50E
13340.0	13337.95	46.28	06.25	S55.00E	3.18 N	55.27 E	1.57	1.47	55.36	AT N86.71E
13433.0	13430.42	56.15	06.00	S67.00E	1.62 S	63.89 E	1.40	1.30	63.91	AT S88.54E
13527.0	13523.99	65.09	05.00	S53.00E	6.01 S	71.69 E	1.77	1.67	71.94	AT S85.21E
13620.0	13616.71	71.95	04.00	S31.00E	11.23 S	76.60 E	2.13	1.98	77.41	AT S81.66E
13714.0	13710.15	81.03	08.25	S37.00E	19.43 S	82.35 E	4.57	4.29	84.61	AT S76.72E
13808.0	13802.87	95.97	10.75	S55.00E	29.85 S	93.59 E	4.10	3.85	98.23	AT S72.31E
13901.0	13894.01	114.48	12.25	S59.00E	39.90 S	109.15 E	1.83	1.70	116.22	AT S69.92E
13995.0	13985.50	136.02	14.25	S62.00E	50.47 S	127.92 E	2.25	2.11	137.52	AT S68.47E
14088.0	14075.33	160.06	15.75	S63.00E	61.58 S	149.27 E	1.64	1.52	161.47	AT S67.58E
14182.0	14165.63	186.02	16.50	S68.00E	72.37 S	173.02 E	1.68	1.58	187.54	AT S67.30E
14276.0	14255.59	212.97	17.25	S70.00E	82.14 S	198.49 E	1.01	0.95	214.81	AT S67.52E
14369.0	14344.03	241.22	18.75	S71.00E	91.72 S	225.58 E	1.65	1.53	243.52	AT S67.87E
14463.0	14432.78	271.59	19.75	S72.00E	101.55 S	254.97 E	1.12	1.05	274.45	AT S68.28E
14556.0	14519.81	303.74	21.50	S70.00E	112.23 S	285.93 E	2.03	1.89	307.17	AT S68.57E
14650.0	14607.12	338.05	22.00	S70.00E	124.15 S	318.67 E	0.53	0.50	342.00	AT S68.71E
14744.0	14694.20	373.05	22.25	S67.00E	137.12 S	351.59 E	1.23	1.16	377.39	AT S68.69E
14837.0	14779.81	408.85	23.75	S72.00E	149.79 S	385.62 E	2.65	2.46	413.69	AT S68.77E
14931.0	14865.94	445.38	23.50	S76.00E	160.18 S	421.81 E	1.73	1.62	451.20	AT S69.21E
15024.0	14950.39	482.71	26.00	S77.00E	169.25 S	459.67 E	2.73	2.53	489.83	AT S69.79E
15118.0	15034.61	522.53	26.75	S78.00E	178.28 S	500.43 E	0.93	0.87	531.24	AT S70.39E
15212.0	15119.18	561.65	25.00	S77.00E	187.15 S	540.48 E	1.92	1.80	571.97	AT S70.90E
15305.0	15203.47	599.33	25.00	S76.00E	196.32 S	578.70 E	0.45	0.42	611.10	AT S71.26E
15399.0	15288.49	637.88	25.50	S76.00E	206.02 S	617.61 E	0.53	0.50	651.06	AT S71.55E
15492.0	15372.43	676.46	25.50	S75.00E	216.05 S	656.37 E	0.46	0.43	691.01	AT S71.78E
15586.0	15457.71	714.88	24.25	S72.00E	227.25 S	694.27 E	1.89	1.78	730.52	AT S71.88E
15680.0	15544.15	750.99	22.00	S72.00E	238.66 S	729.38 E	2.39	2.25	767.44	AT S71.88E

* THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF *

* 15680.0 FEET EQUALS 767.44 FEET AT S71.88E *

MAGNETIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

 * DUSTY MAC RESOURCE INC *

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***** DEPTH MEASURED IN FEET *****
***** THIS DIRECTIONAL SURVEY REPORT IS *****
***** CORRECT TO THE BEST OF MY KNOWLEDGE *****
***** AND IS SUPPORTED BY ACTUAL FIELD DATA! *****
COMMENTS:  MMS 12965-15680
            TMBR SHARP RIG #55
            REPORT FOR MAX HALL
            
            *****
            COMPANY REPRESENTATIVE *****

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