

SCIENTIFIC DRILLING INTERNATIONAL

SURVEY DATA

Operator: HARVEY E. YATES COMPANY

Well Name: MALTESE FALCON 28 #1

Location: LEA COUNTY, NEW MEXICO

Sur. 0.28.165.38e 634/s & 1689/E
 BHL 0.28.165.38e 771/s & 2198/E

Target +N -S = 116.0

Target +E -W = -461.0

Target TVD = 11200.0

Minimum Curvature Calculations (SPE-3362)

30-025-34014

Proposed Direction: 284.124

No.	CL	MD	Inc.	True Azimuth	True Vertical Depth	North + South -	East + West -	Vertical Section	DLS/ 100.0
TIE IN		8,092	1.0	322.00	8091.12	74.31	-16.94	34.56	0.00
1	113	8,205	4.50	296.70	8203.97	77.08	-21.51	39.67	3.20
2	95	8,300	5.50	297.10	8298.61	80.83	-28.89	47.74	1.05
3	94	8,394	6.70	285.80	8392.08	84.37	-38.18	57.61	1.80
4	95	8,489	9.20	275.50	8486.17	86.61	-51.07	70.66	3.02
5	94	8,583	9.50	271.00	8578.92	87.47	-66.31	85.65	0.84
6	95	8678	9.50	272.00	8672.62	87.88	-81.98	100.95	0.17
7	158	8836	8.00	275.00	8828.77	89.29	-105.97	124.55	0.99
8	127	8963	7.50	275.00	8954.61	90.78	-123.03	141.46	0.39
9	100	9063	7.50	286.00	9053.76	93.15	-135.80	154.43	1.43
10	96	9,159	8.00	286.00	9148.88	96.72	-148.25	167.37	0.52
11	162	9,321	9.00	289.00	9309.10	103.95	-171.07	191.26	0.68
12	190	9,511	11.00	289.00	9496.21	114.69	-202.26	224.13	1.05
13	127	9,638	11.50	287.00	9620.77	122.34	-225.82	248.85	0.50
14	122	9,760	11.50	287.00	9740.32	129.45	-249.08	273.14	0.00
15	160	9,920	11.25	296.00	9897.19	140.96	-278.37	304.35	1.12
16	157	10,077	11.00	294.00	10051.24	153.76	-305.81	334.09	0.29
17	159	10,236	11.25	289.00	10207.25	164.98	-334.34	364.49	0.63
18	158	10,394	11.00	289.00	10362.29	174.91	-363.16	394.87	0.16
19	82	10,476	11.50	289.70	10442.71	180.21	-378.26	410.80	0.63
20	96	10,572	12.00	276.40	10536.71	184.55	-397.19	430.21	2.86
21	95	10,667	10.40	268.00	10629.91	185.35	-415.57	448.24	2.40
22	96	10,763	9.60	261.10	10724.45	183.81	-432.14	463.93	1.50
23	96	10,859	8.30	245.40	10819.30	179.69	-446.35	476.71	2.87
24	96	10,955	8.00	232.80	10914.33	172.76	-457.98	486.29	1.88
25	107	11,062	9.50	220.00	11020.10	161.49	-469.58	494.80	2.29
26	126	11,188	10.00	219.00	11144.28	145.03	-483.15	503.94	0.42
TGT	57	11,244.6	10.00	219.00	11200.00	137.39	-489.34	508.07	0.00
BIT	6	11,251	10.00	219.00	11206.32	136.53	-490.04	508.54	0.00

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-34014

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

2. Name of Operator

Harvey E. Yates Company

3. Address of Operator

P.O. Box 1933, Roswell, N.M. 88202

4. Well Location

Unit Letter 0 : 634 Feet From The South Line and 1689 Feet From The East Line

Section 28 Township 16S Range 38E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3709 GL

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

TD sidetrack hole @ 11,610' 8/12/97 3:45 am

8/12/97 RU loggers, could not get logs below 10,600', Cut sidewall cores

8/13-15/97 Unable to get logging tools past 10,623'

RU BJ & start setting plugs w/CL "H" (15.6 ppg & 1.18 yd)

Set 45 sk plug @ 11,610-11,510', Set 45 sk plug @ 9650-9550',

Set 45 sk plug @ 8248-8148', Set 45 sk plug @ 6300-6200',

Set 50 sk plug @ 4555-4455', Set 45 sk plug @ 2080-1980',

Set 10 sk surface plug, cut off WH & weld on dry hole marker,

RR @ 8:30 pm 8/16/97

Attachments: Deviation survey & E-logs

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Vickie Teel TITLE Production Analyst DATE 8/21/97

TYPE OR PRINT NAME Vickie Teel 505/623-6601 TELEPHONE NO.

(This space for State Use)

APPROVED BY Caryll L. Hill TITLE OIL & GAS INSPECTOR DATE DEC 08 1997

CONDITIONS OF APPROVAL, IF ANY

MALTESE MALTESE FALCON 28#1 18 JULY 1997
 Lane of Vertical Section 284.12

Section 1 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8092.0	1.00	322.00	8091.1	34.6	74.3	-16.9	0.0	0.0	0.0	0.0
8100.0	1.00	322.00	8099.1	34.7	74.4	-17.0	0.0	0.0	0.0	0.0

Section 2 (Const Dogleg)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8150.0	1.00	322.00	8149.1	35.4	75.1	-17.6	1.6	-52.2	0.0	29.7
8200.0	1.80	295.92	8199.1	36.5	75.8	-18.5	1.9	-13.8	2.0	12.8
8300.0	3.70	282.16	8299.0	41.2	77.2	-23.1	2.0	-4.3	2.0	8.1
8400.0	5.67	277.83	8398.6	49.4	78.5	-31.1	2.0	-2.1	2.0	6.0
8500.0	7.65	275.74	8498.0	60.9	79.9	-42.7	2.0	-1.3	2.0	5.1

Section 3 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8559.9	8.85	274.93	8557.2	69.4	80.6	-51.2	0.0	0.0	0.0	0.0
8600.0	8.85	274.93	8596.9	75.4	81.2	-57.4	0.0	0.0	0.0	0.0
8700.0	8.85	274.93	8695.7	90.6	82.5	-72.7	0.0	0.0	0.0	0.0
8800.0	8.85	274.93	8794.5	105.8	83.8	-88.0	0.0	0.0	0.0	0.0
8900.0	8.85	274.93	8893.3	121.0	85.1	-103.3	0.0	0.0	0.0	0.0
9000.0	8.85	274.93	8992.1	136.2	86.5	-118.7	0.0	0.0	0.0	0.0
9100.0	8.85	274.93	9090.9	151.3	87.8	-134.0	0.0	0.0	0.0	0.0
9200.0	8.85	274.93	9189.7	166.5	89.1	-149.3	0.0	0.0	0.0	0.0
9300.0	8.85	274.93	9288.5	181.7	90.4	-164.6	0.0	0.0	0.0	0.0
9400.0	8.85	274.93	9387.3	196.9	91.8	-179.9	0.0	0.0	0.0	0.0
9500.0	8.85	274.93	9486.2	212.1	93.1	-195.3	0.0	0.0	0.0	0.0
9600.0	8.85	274.93	9585.0	227.2	94.4	-210.6	0.0	0.0	0.0	0.0
9700.0	8.85	274.93	9683.8	242.4	95.7	-225.9	0.0	0.0	0.0	0.0
9800.0	8.85	274.93	9782.6	257.6	97.0	-241.2	0.0	0.0	0.0	0.0
9900.0	8.85	274.93	9881.4	272.8	98.4	-256.5	0.0	0.0	0.0	0.0

MALTESE MALTESE FALCON 28#1

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
10000.0	8.85	274.93	9980.2	288.0	99.7	-271.9	0.0	0.0	0.0	0.0
10100.0	8.85	274.93	10079.0	303.1	101.0	-287.2	0.0	0.0	0.0	0.0
10200.0	8.85	274.93	10177.8	318.3	102.3	-302.5	0.0	0.0	0.0	0.0
10300.0	8.85	274.93	10276.6	333.5	103.6	-317.8	0.0	0.0	0.0	0.0
10400.0	8.85	274.93	10375.5	348.7	105.0	-333.1	0.0	0.0	0.0	0.0
10500.0	8.85	274.93	10474.3	363.9	106.3	-348.5	0.0	0.0	0.0	0.0
10600.0	8.85	274.93	10573.1	379.0	107.6	-363.8	0.0	0.0	0.0	0.0
10700.0	8.85	274.93	10671.9	394.2	108.9	-379.1	0.0	0.0	0.0	0.0
10800.0	8.85	274.93	10770.7	409.4	110.3	-394.4	0.0	0.0	0.0	0.0
10900.0	8.85	274.93	10869.5	424.6	111.6	-409.7	0.0	0.0	0.0	0.0
11000.0	8.85	274.93	10968.3	439.8	112.9	-425.1	0.0	0.0	0.0	0.0
11100.0	8.85	274.93	11067.1	454.9	114.2	-440.4	0.0	0.0	0.0	0.0
11200.0	8.85	274.93	11165.9	470.1	115.5	-455.7	0.0	0.0	0.0	0.0

Section 4 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
11234.5	8.85	274.93	11200.0	475.4	116.0	-461.0	0.0	0.0	0.0	0.0
11300.0	8.85	274.93	11264.7	485.3	116.9	-471.0	0.0	0.0	0.0	0.0
11400.0	8.85	274.93	11363.6	500.5	118.2	-486.4	0.0	0.0	0.0	0.0
11500.0	8.85	274.93	11462.4	515.7	119.5	-501.7	0.0	0.0	0.0	0.0
11600.0	8.85	274.93	11561.2	530.9	120.8	-517.0	0.0	0.0	0.0	0.0
11689.9	8.85	274.93	11650.0	544.5	122.0	-530.8	0.0	0.0	0.0	0.0



SCIENTIFIC DRILLING INTERNATIONAL
FOR
HARVEY E. YATES COMPANY
MALTESE FALCON 2D 21
IN
LEA COUNTY, NEW MEXICO

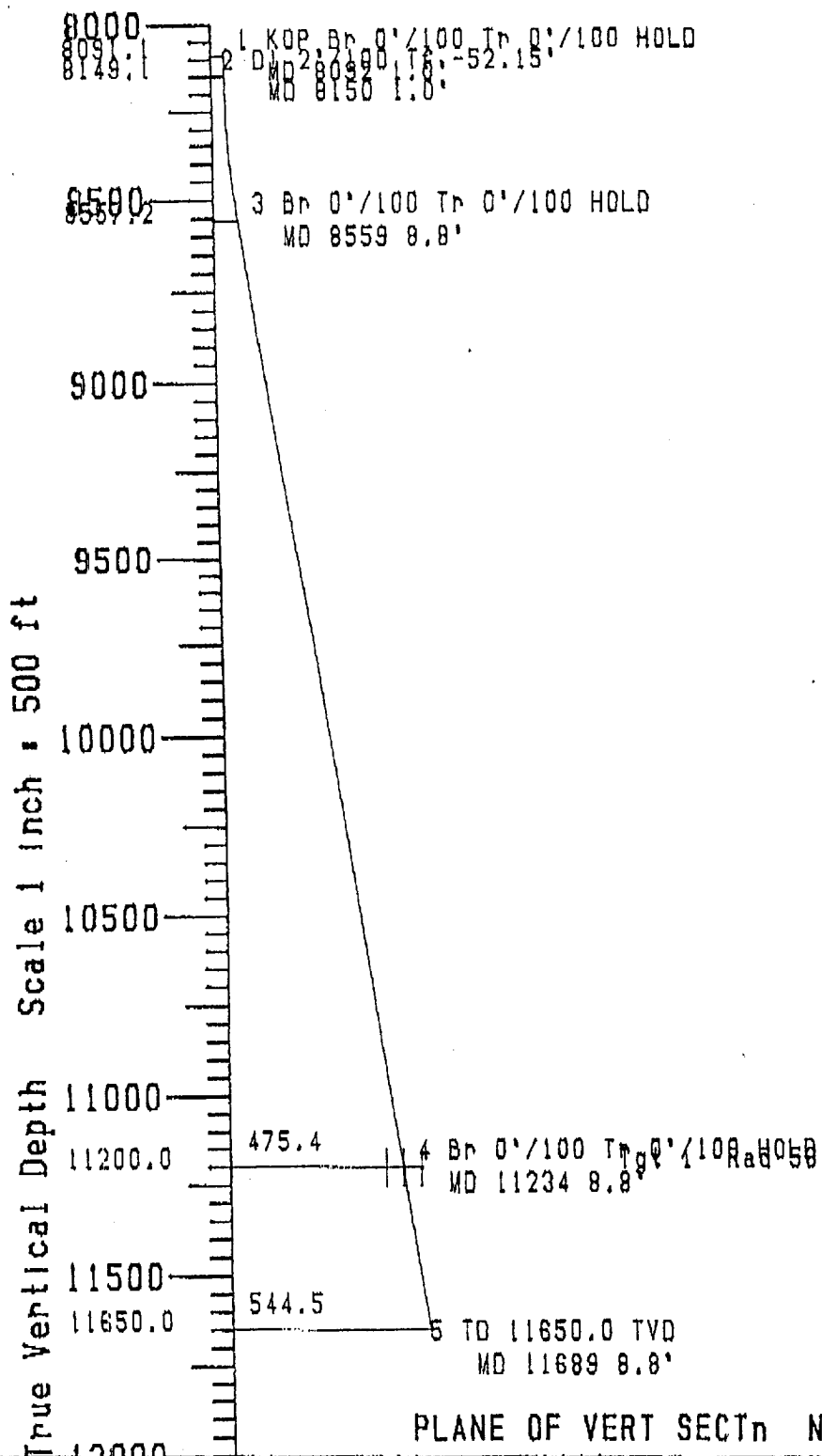


EXHIBIT "A"

~~MALTESE~~ MALTESE FALCON 2871 18 JULY 1997
Plane of Vertical Section 284.12

Section 1 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8092.0	1.00	322.00	8091.1	34.6	74.3	-16.9	0.0	0.0	0.0	0.0
8100.0	1.00	322.00	8099.1	34.7	74.4	-17.0	0.0	0.0	0.0	0.0

Section 2 (Const Dogleg)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8150.0	1.00	322.00	8149.1	35.4	75.1	-17.6	1.6	-52.2	0.0	29.7
8200.0	1.80	295.92	8199.1	36.5	75.8	-18.5	1.9	-13.8	2.0	12.8
8300.0	3.70	282.16	8299.0	41.2	77.2	-23.1	2.0	-4.3	2.0	8.1
8400.0	5.67	277.83	8398.6	49.4	78.5	-31.1	2.0	-2.1	2.0	6.0
8500.0	7.65	275.74	8498.0	60.9	79.9	-42.7	2.0	-1.3	2.0	5.1

Section 3 (Hold Section)

MD	Inc	Dir	Tvd	Vsec	Lat	Dep	Values to be applied			
							Build	Turn	Dleg	T Face
8559.9	8.85	274.93	8557.2	69.4	80.6	-51.2	0.0	0.0	0.0	0.0
8600.0	8.85	274.93	8596.9	75.4	81.2	-57.4	0.0	0.0	0.0	0.0
8700.0	8.85	274.93	8695.7	90.6	82.5	-72.7	0.0	0.0	0.0	0.0
8800.0	8.85	274.93	8794.5	105.8	83.8	-88.0	0.0	0.0	0.0	0.0
8900.0	8.85	274.93	8893.3	121.0	85.1	-103.3	0.0	0.0	0.0	0.0
9000.0	8.85	274.93	8992.1	136.2	86.5	-118.7	0.0	0.0	0.0	0.0
9100.0	8.85	274.93	9090.9	151.3	87.8	-134.0	0.0	0.0	0.0	0.0
9200.0	8.85	274.93	9189.7	166.5	89.1	-149.3	0.0	0.0	0.0	0.0
9300.0	8.85	274.93	9288.5	181.7	90.4	-164.6	0.0	0.0	0.0	0.0
9400.0	8.85	274.93	9387.3	196.9	91.8	-179.9	0.0	0.0	0.0	0.0
9500.0	8.85	274.93	9486.2	212.1	93.1	-195.3	0.0	0.0	0.0	0.0
9600.0	8.85	274.93	9585.0	227.2	94.4	-210.6	0.0	0.0	0.0	0.0
9700.0	8.85	274.93	9683.8	242.4	95.7	-225.9	0.0	0.0	0.0	0.0
9800.0	8.85	274.93	9782.6	257.6	97.0	-241.2	0.0	0.0	0.0	0.0
9900.0	8.85	274.93	9881.4	272.8	98.4	-256.5	0.0	0.0	0.0	0.0