

Q

MERRION

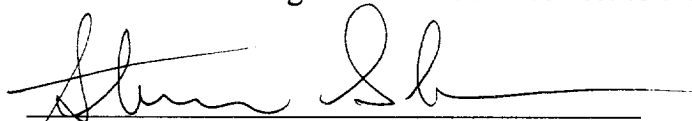
OIL & GAS

FEDERAL 12 C No. 1H
Section 12, T19N, R4W
Sandoval County, New Mexico

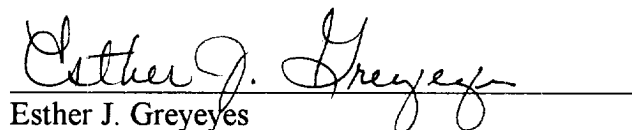
RECEIVED
JAN 17 1995
OIL CON. DIV.
DIST. 3

State of New Mexico }
 } ss
County of San Juan }

I, Steven S. Dunn, being first duly sworn, depose and state that the attach and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.



Subscribed and sworn before me this 16th day of December, 1995


Esther J. Greyeyes
Notary Public

My Commission Expires: August 7, 1998

OPERATOR
MERRION OIL & GAS CORP.
FEDERAL 12C No. 1H
SANDOVAL COUNTY, NEW MEXICO

DIRECTIONAL DRILLING COMPANY
VOGEL ENGINEERING, INC.
415 WEST WALL STREET MIDLAND TX 79707
915-570-4719

Target Az: 197.5
Target TVD: 5491

Start Date: 11/13/94
End Date: 11/23/94

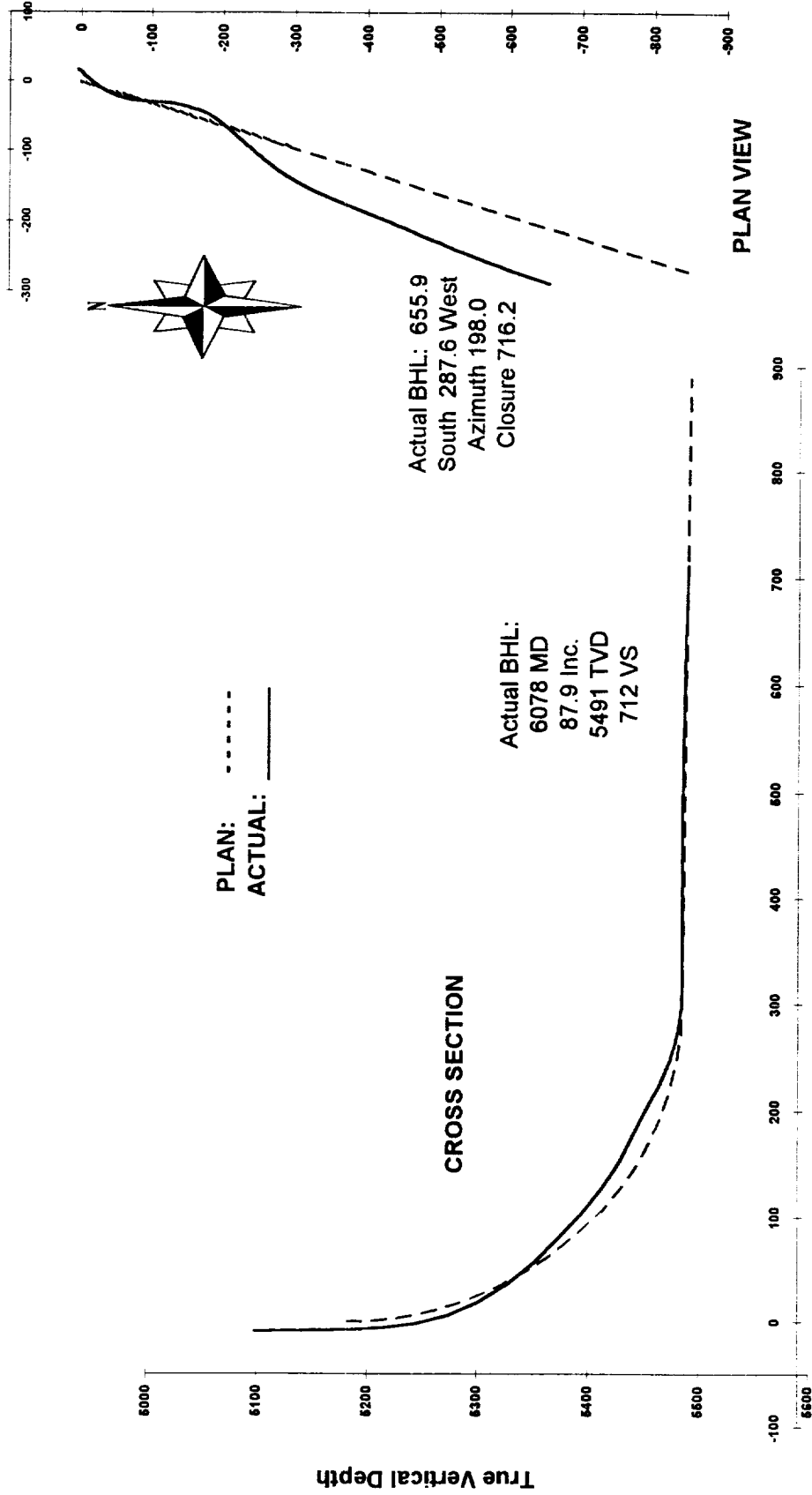
MD	INC	AZ	TVD	Vert. Section	Coordinates N-S	E-W	Closure	Build Rate	Walk Rate
5100.00	0.40	214.60	5099.2	-9.3	4.6	16.4	17.0		
5184.00	2.20	223.00	5183.2	-7.5	3.1	15.2	15.5	0.02	0.10
5215.00	4.30	195.90	5214.1	-5.8	1.5	14.3	14.4	0.07	-0.87
5245.00	12.10	230.80	5243.8	-1.7	-2.0	12.0	12.1	0.26	1.16
5276.00	21.00	222.50	5273.5	6.1	-8.1	5.5	9.8	0.29	-0.27
5307.00	30.60	219.30	5301.4	18.4	-18.3	-3.3	18.6	0.31	-0.10
5339.00	37.50	209.30	5327.9	35.6	-33.1	-13.4	35.7	0.22	-0.31
5371.00	44.40	200.60	5352.0	56.4	-52.1	-22.2	56.7	0.22	-0.27
5402.00	48.40	188.50	5373.4	78.8	-73.8	-27.9	78.9	0.13	-0.39
5434.00	52.30	179.10	5393.8	102.7	-98.4	-29.5	102.8	0.12	-0.29
5466.00	55.20	188.60	5412.7	127.8	-124.2	-31.2	128.0	0.09	0.30
5497.00	61.50	195.10	5429.0	154.1	-150.0	-36.7	154.4	0.20	0.21
5527.00	66.30	207.10	5442.2	181.0	-175.1	-46.4	181.2	0.16	0.40
5543.00	64.50	213.60	5448.9	195.2	-187.7	-53.7	195.2	-0.11	0.41
5560.00	63.70	218.40	5456.3	209.7	-200.1	-62.7	209.7	-0.05	0.28
5572.00	64.40	220.70	5461.5	219.7	-208.4	-69.6	219.7	0.06	0.19
5582.00	66.30	223.00	5465.7	227.9	-215.2	-75.6	228.1	0.19	0.23
5592.00	68.90	223.30	5469.5	236.3	-221.9	-81.9	236.5	0.26	0.03
5606.00	73.50	222.30	5474.0	248.3	-231.6	-91.0	248.8	0.33	-0.07
5620.00	76.10	221.60	5477.7	260.6	-241.7	-100.0	261.5	0.19	-0.05
5624.00	77.20	221.10	5478.6	264.1	-244.6	-102.6	265.2	0.28	-0.13
5635.00	80.20	220.30	5480.8	274.0	-252.8	-109.6	275.5	0.27	-0.07
5641.00	81.60	219.60	5481.7	279.5	-257.3	-113.4	281.2	0.23	-0.12
5657.00	85.20	217.70	5483.6	294.3	-269.7	-123.3	296.6	0.23	-0.12
5678.00	88.40	212.90	5484.7	314.3	-286.8	-135.4	317.2	0.15	-0.23
5708.00	90.80	206.00	5484.9	343.6	-313.0	-150.2	347.1	0.08	-0.23
5737.00	88.90	203.80	5485.0	372.4	-339.3	-162.4	376.1	-0.07	-0.08
5770.00	91.40	202.10	5484.9	405.2	-369.7	-175.3	409.1	0.08	-0.05
5801.00	90.10	202.10	5484.5	436.1	-398.4	-186.9	440.0	-0.04	0.00
5832.00	89.40	202.30	5484.7	467.0	-427.1	-198.6	471.0	-0.02	0.01
5864.00	89.20	202.60	5485.1	498.9	-456.6	-210.9	503.0	-0.01	0.01
5926.00	89.10	203.00	5486.0	560.6	-513.8	-234.9	564.9	0.00	0.01
5957.00	89.40	201.90	5486.4	591.5	-542.4	-246.7	595.9	0.01	-0.04
5989.00	88.80	200.40	5486.9	623.5	-572.3	-258.3	627.9	-0.02	-0.05
6022.00	88.20	199.10	5487.7	656.4	-603.3	-269.4	660.8	-0.02	-0.04
6078.00	87.90	198.00	5489.7	712.4	-656.4	-287.2	716.5	-0.01	-0.02

VOGEL ENGINEERING, INC.
 HORIZONTAL AND DIRECTIONAL DRILLING
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 915-570-4719

MERRION OIL & GAS CORP.

FEDERAL 12C No. 1H

SANDOVAL COUNTY, NEW MEXICO



SCIENTIFIC DRILLING INTERNATIONAL
CASPER, WYOMING

Finder Survey
for

MERRION OIL & GAS
FARMINGTON, NEW MEXICO

Job Number : 41FG1094108
Well Number : FEDERAL 12C NO. 1
Site Location : SANDOVAL COUNTY, NEW MEXICO
Latitude : 35.883
Survey Date(s) : 12-OCT-94
S.D.C. personnel : JOHN H BECKNER
Calculation Method : Minimum Curvature
Survey Depth Zero : 12' K.B.
Proposal Direction :
Depth Unit : Feet

Comments :
SURVEY RUN IN 7" CASING
SURVEY FROM SURFACE TO 5223'

Inrun Survey
MERRION OIL & GAS

Well number : FEDERAL 12C NO. 1

Date : 12-OCT-94

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates Latitude Departure		D-leg /100ft
0.0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
100.0	100.00	-0.2	0.33	147.70	-0.24	0.15	0.33
200.0	200.00	-0.8	0.40	145.13	-0.77	0.51	0.07
300.0	299.99	-1.4	0.47	155.61	-1.43	0.88	0.11
400.0	399.99	-2.4	0.69	155.74	-2.36	1.29	0.22
500.0	499.98	-3.5	0.72	159.81	-3.49	1.76	0.06
600.0	599.98	-4.6	0.57	169.26	-4.57	2.07	0.18
700.0	699.97	-5.5	0.50	159.14	-5.47	2.31	0.12
800.0	799.97	-6.2	0.35	165.24	-6.17	2.55	0.16
900.0	899.97	-6.8	0.36	158.22	-6.76	2.74	0.04
1000.0	999.96	-7.3	0.45	121.84	-7.26	3.19	0.27
1100.0	1099.96	-7.7	0.65	112.58	-7.68	4.05	0.22
1200.0	1199.95	-7.7	0.84	71.63	-7.67	5.27	0.55
1300.0	1299.93	-6.9	1.17	57.60	-6.89	6.83	0.41
1400.0	1399.91	-5.6	1.51	53.33	-5.56	8.75	0.35
1500.0	1499.86	-3.8	1.82	50.69	-3.77	11.03	0.32
1600.0	1599.81	-1.5	1.96	40.35	-1.46	13.37	0.37
1700.0	1699.75	1.3	1.91	30.10	1.29	15.31	0.35
1800.0	1799.70	4.2	1.91	27.71	4.21	16.92	0.08
1900.0	1899.65	6.9	1.51	21.86	6.91	18.19	0.44
2000.0	1999.62	9.3	1.45	20.85	9.31	19.13	0.07
2100.0	2099.58	11.4	1.58	46.61	11.44	20.58	0.69
2200.0	2199.55	13.1	1.37	56.07	13.05	22.57	0.32
2300.0	2299.53	14.2	1.14	58.12	14.25	24.41	0.23
2400.0	2399.51	15.4	1.17	53.59	15.38	26.08	0.10
2500.0	2499.49	16.4	0.90	57.41	16.41	27.56	0.28
2600.0	2599.48	17.4	1.02	50.96	17.39	28.91	0.16
2700.0	2699.47	18.1	0.53	67.61	18.13	30.03	0.53
2800.0	2799.46	18.5	0.51	65.98	18.48	30.87	0.03
2900.0	2899.46	18.7	0.48	89.73	18.67	31.69	0.21
3000.0	2999.45	18.6	0.32	100.33	18.62	32.38	0.18
3100.0	3099.45	18.2	0.45	164.15	18.19	32.77	0.42
3200.0	3199.45	17.3	0.59	177.34	17.30	32.90	0.18
3300.0	3299.44	15.9	0.98	177.19	15.93	32.96	0.39
3400.0	3399.42	14.2	1.01	172.04	14.20	33.13	0.09
3500.0	3499.41	12.5	0.94	174.87	12.51	33.32	0.08
3600.0	3599.40	11.0	0.78	166.84	11.03	33.55	0.20
3700.0	3699.39	9.8	0.70	159.62	9.80	33.92	0.12
3800.0	3799.38	8.8	0.51	160.33	8.81	34.28	0.19

Inrun Survey
MERRION OIL & GAS

Well number : FEDERAL 12C NO. 1

Date : 12-OCT-94

Measured Depth	Vertical Depth	Vert. Section	Inc Deg	Azimuth Deg	Coordinates		D-leg /100ft
					Latitude	Departure	
3900.0	3899.38	7.9	0.56	184.61	7.90	34.39	0.23
4000.0	3999.37	7.1	0.95	244.82	7.06	33.60	0.83
4100.0	4099.36	6.3	0.95	244.07	6.35	32.11	0.00
4200.0	4199.34	5.7	1.25	253.79	5.68	30.31	0.35
4300.0	4299.32	5.0	1.19	249.21	5.01	28.30	0.11
4400.0	4399.29	4.3	1.26	250.48	4.27	26.29	0.07
4500.0	4499.27	3.7	1.29	257.44	3.66	24.15	0.16
4600.0	4599.25	3.3	1.13	262.83	3.29	22.08	0.20
4700.0	4699.23	3.4	0.97	283.28	3.36	20.27	0.40
4800.0	4799.22	4.2	0.89	323.02	4.18	18.98	0.64
4900.0	4899.21	5.1	0.68	306.07	5.15	18.04	0.31
5000.0	4999.20	5.4	0.63	260.92	5.41	17.01	0.51
5100.0	5099.20	5.0	0.44	214.62	5.01	16.25	0.46
5200.0	5199.19	4.5	0.51	122.47	4.45	16.41	0.69
5204.0	5203.19	4.4	0.58	121.94	4.43	16.44	1.78
5223.0	5222.19	4.4	0.48	106.64	4.36	16.60	0.91

At Bottom Hole Location: Measured Depth Horiz. Displ. Closure Dir.
 = 5223.0 = 17.163 = 75.293