



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

November 15, 1995

Ernie Busch
Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

RECEIVED
NOV 16 1995
OIL CON. DIV.
DIST. 3

Re: Directional Survey
San Juan 30-6 Unit #498R Well
G Section 30-T30N-R7W,
San Juan County, New Mexico
Phillips' GF-5396, LCN 655268

Dear Ernie:

Per your recent request, attached is a notarized copy of the directional survey for this well.

Let me know if you need anything further.

Sincerely,

Patrick H. Noah
Senior Land Specialist
San Juan Basin
(505) 599-3410

cc (w/attach): Meridian Oil Inc. (Attn: Linda Donohue)
well file



1700 Broadway Suite 1450 Denver Colorado 80290
(303) 860-0509 Fax (303) 830-2546

REPORT OF SUB-SURFACE DIRECTIONAL SURVEY

Phillips Petroleum
COMPANY

SJ 30-6 498R
WELL NAME

San Juan County, New Mexico
LOCATION

JOB NUMBER
410-3001

TYPE OF SURVEY
MWD

DATE
December 7, 1993

SURVEYED BY
Gary Cropsey

OFFICE
DENVER

RECEIVED
NOV 16 1995
OIL CON. DIV.
DIST. 3



1700 Broadway Suite 1450 Denver Colorado 80290
(303) 860-0509 Fax (303) 830-2546

SURVEY CERTIFICATION SHEET

Phillips Petroleum
Company
S30-30N-7W
Lease

410-3001
Job #
SJ 30-6 498R
Well #

December 7, 1993
Date
San Juan County, New Mexico
County and State

Surveyed from a depth of 431 feet to 3316 feet MD
Type of Survey MWD
Directional Supervisor/Surveyor Mike Robbins/Gary Cropsey

The data and calculations for this survey have been checked by me and conform to the standards and pro-
dures set forth by Baker Hughes INTEQ. This report represents a true and correct Directional Survey of this
well based on the original data obtained at the well site.

Wallace Holbrook
Well Planner

Jonny L. Gent
Jonny L. Gent P.E.
Field Engineering Manager

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of
Colorado, this 13th day of November 1995.

Jesse A. Cakes
Notary

My commission expires Aug. 4, 1996

PHILLIPS PETROLEUM
S30-30N-7W

498R
SJ 30-6
RIO ARRIBA COUNTY
NEW MEXICO

S U R V E Y L I S T I N G

by
Baker Hughes Inteq

Your ref : MWD SURVEYS
Our ref : svy2938
License :

Date printed : 6-Dec-93
Date created : 30-Nov-93
Last revised : 6-Dec-93

Field is centred on n36 33 0.000,w107 40 0.000,-105
Structure is centred on n36 33 0.000,w107 40 0

Slot location is n36 32 39.065,w107 40 26.690
Slot Grid coordinates are N 2017370.637, E 546780.361
Slot local coordinates are 2117.00 S 2178.00 W
Reference North is True North

PHILLIPS PETROLEUM
S30-30N-7W,498R
RIO ARriba COUNTY,NEW MEXICO

SURVEY LISTING Page 1
Your ref : MWD SURVEYS
Last revised : 6-Dec-93

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
360.00	0.00	0.00	360.00	0.00 N	0.00 E	0.00	0.00
431.00	0.80	8.30	431.00	0.49 N	0.07 E	1.13	0.39
525.00	3.30	49.10	524.93	2.91 N	2.21 E	2.92	3.61
620.00	6.40	44.20	619.58	8.50 N	7.97 E	3.29	11.63
714.00	9.60	45.30	712.65	17.77 N	17.20 E	3.41	24.71
821.00	14.00	52.30	817.37	31.97 N	33.79 E	4.32	46.52
914.00	18.60	47.40	906.62	48.90 N	53.62 E	5.16	72.55
1008.00	23.80	43.50	994.23	72.82 N	77.73 E	5.73	106.50
1102.00	29.30	44.90	1078.28	102.89 N	107.04 E	5.89	148.48
1195.00	32.40	44.50	1158.12	136.79 N	140.58 E	3.34	196.14
1288.00	36.90	46.30	1234.60	173.87 N	178.24 E	4.96	248.99
1382.00	41.80	47.00	1307.27	214.76 N	221.58 E	5.23	308.57
1466.00	44.90	46.00	1368.35	254.46 N	263.40 E	3.78	366.23
1620.00	49.70	46.70	1472.75	332.53 N	345.28 E	3.13	479.37
1745.00	50.00	47.40	1553.35	397.63 N	415.21 E	0.49	574.90
1866.00	50.30	47.70	1630.89	460.33 N	483.76 E	0.31	667.78
1958.00	48.30	47.00	1690.88	507.58 N	535.06 E	2.25	737.51
2051.00	47.10	45.30	1753.47	555.22 N	584.67 E	1.87	806.29
2143.00	44.00	44.20	1817.89	601.84 N	630.91 E	3.48	871.93
2235.00	40.90	43.50	1885.76	646.61 N	673.93 E	3.41	933.96
2329.00	38.00	43.80	1958.34	689.82 N	715.15 E	3.09	993.62
2422.00	34.30	46.30	2033.43	728.61 N	753.92 E	4.28	1048.44
2515.00	30.70	46.00	2111.85	763.21 N	789.96 E	3.87	1098.40
2607.00	28.70	44.50	2191.76	795.29 N	822.34 E	2.32	1143.97
2701.00	25.20	45.30	2275.54	825.47 N	852.39 E	3.74	1186.56
2794.00	21.70	45.60	2360.85	851.44 N	878.76 E	3.76	1223.55
2884.00	17.80	40.30	2445.54	873.58 N	899.55 E	4.76	1253.89
2975.00	12.20	32.90	2533.42	892.28 N	913.78 E	6.49	1277.09
3066.00	8.20	25.20	2622.96	906.23 N	921.77 E	4.63	1292.51
3160.00	4.60	12.20	2716.37	915.98 N	925.42 E	4.10	1301.89
3254.00	1.80	10.80	2810.21	921.12 N	926.50 E	2.98	1306.21
3306.00	0.80	45.30	2862.20	922.18 N	926.91 E	2.36	1307.24
3316.00	0.90	42.10	2872.20	922.28 N	927.01 E	1.11	1307.39
3379.00	0.90	42.10	2935.19	923.02 N	927.68 E	0.00	1308.38

All data is in feet unless otherwise stated
Coordinates from SJ 30-6 and TVD from wellhead.
Vertical section is from wellhead on azimuth 46.30 degrees.
Declination is 11.63 degrees, Convergence is 0.10 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes Inteq