

**New Mexico Oil Conservation
Oil & Gas Division
1000 Rio Brazos Road
Aztec, New Mexico
87410**

For the attention of : Frank Chavez

Dear Sir,

*BHL 2420/N 792/W Sect 15
T31N/R6W*

Please find enclosed two (2) copies of our certified survey results on the well described below.

Customer : Williams Production Company

Well : Rosa #25A

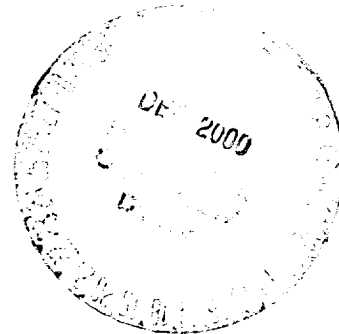
Rig : Aztec Well Service #124

Field : Mesa Verde

Legal : 67 - Sec. 16 - T31N - R06W
Service

County : San Juan

State : New Mexico



Please feel free to call upon me at any time should you have any questions regarding the enclosed information.

Sincerely,

Craig Davis

**Craig Davis
Directional Drilling Coordinator
7197 W. Derrick Drive
Casper, Wyoming 82604
(307) 472-5757**

Customer : Williams Production Company

Well : Rosa #25A

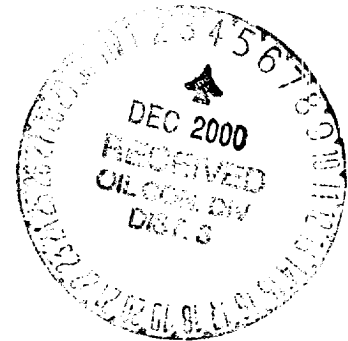
Rig : Aztec Well Service #124

Field : Mesa Verde

Legal : Sec. 16 – T31N – R06W

County : San Juan

State : New Mexico



Calculation Method : Minimum Curvature
Magnetic Declination Applied : 11.2° East
Vertical Section Direction : 102.126° Azimuth

Note : See attached SSDS Certified Survey Worksheet for all survey information as recorded in the field.

I, Craig Davis, having personal knowledge of all the facts, hereby certify that the above listed Directional Survey is true and correct as determined from all available Sperry-Sun Drilling Services records.

Craig E. Davis

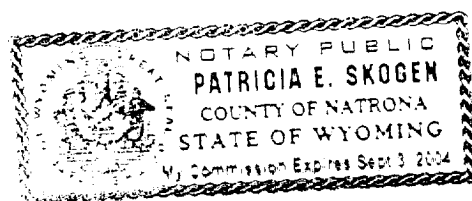
Directional Drilling Coordinator

On this 20th day of November, 2000, before me personally appeared Craig Davis to me known as the person described in and who executed the same as his/her free act and deed.

Patricia E. Skogen

**Notary Public in and for the County of
Natrona, State of Wyoming**

Sept. 3, 2004
My Commission Expires



For the attention of :

Dear Sir,

Please find enclosed one (1) copy of our certified survey results on the well described below.

Customer : Williams Production Company

Well : Rosa #25A

Rig : Aztec Well Service #124

Field : Mesa Verde

Legal : Sec. 16 – T31N – R06W

County : San Juan

State : New Mexico

Please feel free to call upon me at any time should you have any questions regarding the enclosed information.

Sincerely,

A handwritten signature in black ink, appearing to read "Craig Davis".

Craig Davis
Directional Drilling Coordinator

SPERRY-SUN DRILLING SERVICES

CERTIFIED SURVEY WORK SHEET

OPERATOR:	Williams Production Co.
WELL:	Rosa #25A
FIELD:	Mesa Verde
RIG:	Aztec #124
LEGALS:	Sec. 16 -T31N - R08W
COUNTY:	San Juan
STATE:	New Mexico
CAL. METHOD:	Minimum Curvature
MAG. DECL. APPLIED:	11.2
VERTICAL SEC. DIR. :	102.126

SSDS Job Number :	CAMJ-00081
Start Date of Job :	06/24/2000
End Date of Job :	07/09/2000
Lead Directional Driller:	Justin Groom
Other SSDS DD's :	Richard Oaks
SSDS MWD Engineers :	Robert Scott

Main Hole	1st Side Track	2nd Side Track	3rd Side Track	4th Side Track	
0.00	Tie On	Tie On	Tie On	Tie On	Tie On
0.00					
528.00					
583.00					
531.58	MWD				
5650.64	MWD	KOP-ST1	KOP-ST2	KOP-ST3	KOP-ST4
5830.00	SS	MWD	MWD	MWD	MWD
6854.00	SS	MWD	MWD	MWD	MWD
6876.00	T.D.	T.D.	T.D.	T.D.	T.D.

The following Sperry Sun Drilling Services personnel listed below, do certify the above survey information to be accurate :

Print Name :	Print Name :
Sign Name :	Sign Name :
Print Name :	Print Name :
Sign Name :	Sign Name :

Examples of
Survey Types:

Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
 Sperry Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
 Sperry Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
 Gyro Survey's ; Provided by third party vendor, or by Sperry Sun Drilling Services (SSDS)
 Single Shot (SS) Survey's ; Provided by Sperry Sun Drilling Services (SSDS) or third party vendor.

Sperry-Sun Drilling Services

Survey Report for Rosa #25A - MWD/SS Survey

**Williams Production Company
Mesa Verde Field**

**San Juan Co., NM
Sec. 16-T31N-R06W**

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
531.58	3.100	211.400	531.32	12.27 S	7.49 W	-4.75	0.58
561.50	3.500	213.300	561.19	13.73 S	8.41 W	-5.34	1.39
591.69	3.400	197.900	591.33	15.35 S	9.19 W	-5.77	3.08
621.67	3.400	174.400	621.26	17.08 S	9.38 W	-5.58	4.62
651.81	3.800	150.900	651.34	18.84 S	8.81 W	-4.65	5.03
681.95	4.800	137.000	681.39	20.64 S	7.46 W	-2.96	4.77
712.11	5.900	124.600	711.42	22.44 S	5.33 W	-0.49	5.27
742.28	6.600	114.700	741.41	24.04 S	2.47 W	2.63	4.25
772.98	7.300	113.600	771.89	25.56 S	0.92 E	6.27	2.32
803.10	8.400	103.500	801.73	26.84 S	4.81 E	10.34	5.84
833.05	9.100	101.700	831.33	27.83 S	9.26 E	14.90	2.51
863.32	10.000	101.400	861.18	28.84 S	14.18 E	19.92	2.98
893.47	10.700	97.600	890.84	29.73 S	19.52 E	25.33	3.24
923.62	11.000	95.800	920.45	30.39 S	25.15 E	30.97	1.50
954.59	11.800	97.000	950.81	31.07 S	31.24 E	37.07	2.69
986.08	12.800	97.000	981.57	31.89 S	37.89 E	43.75	3.18
1016.62	14.200	96.800	1011.27	32.74 S	44.97 E	50.85	4.59
1048.43	15.200	97.000	1042.04	33.71 S	52.98 E	58.88	3.15
1079.95	16.000	98.700	1072.40	34.88 S	61.38 E	67.34	2.92
1111.37	17.100	99.200	1102.52	36.27 S	70.22 E	76.27	3.53
1142.09	17.700	99.600	1131.83	37.77 S	79.28 E	85.45	1.99
1174.03	18.700	98.200	1162.17	39.31 S	89.14 E	95.41	3.42
1204.55	19.200	99.800	1191.04	40.86 S	98.93 E	105.30	2.36
1236.49	20.600	99.200	1221.07	42.65 S	109.65 E	116.16	4.43
1268.26	21.900	98.500	1250.68	44.42 S	121.03 E	127.66	4.17
1299.80	22.900	98.000	1279.84	46.15 S	132.92 E	139.65	3.23
1329.85	23.700	98.700	1307.44	47.87 S	144.68 E	151.51	2.82
1361.32	24.600	97.800	1336.15	49.72 S	157.42 E	164.36	3.09
1393.09	25.900	97.800	1364.89	51.56 S	170.85 E	177.87	4.09
1423.51	26.700	98.400	1392.16	53.46 S	184.19 E	191.31	2.77
1454.97	27.500	99.100	1420.16	55.64 S	198.36 E	205.62	2.74
1484.82	28.800	98.500	1446.48	57.79 S	212.27 E	219.68	4.46
1516.70	29.800	98.400	1474.28	60.09 S	227.71 E	235.25	3.14
1547.64	30.600	99.200	1501.02	62.47 S	243.09 E	250.78	2.89
1578.05	31.700	99.400	1527.05	65.01 S	258.61 E	266.50	3.63
1608.17	32.900	100.300	1552.51	67.77 S	274.47 E	282.58	4.29
1639.30	34.000	99.400	1578.48	70.70 S	291.37 E	299.72	3.88
1671.27	35.300	99.200	1604.78	73.64 S	309.31 E	317.88	4.08
1701.88	36.600	98.900	1629.56	76.46 S	327.06 E	335.82	4.29

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #25A - MWD/SS Survey

Williams Production Company
Mesa Verde Field

San Juan Co., NM
Sec. 16-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
1731.19	37.900	98.900	1652.89	79.21 S	344.58 E	353.53	4.44
1762.27	39.100	98.700	1677.21	82.17 S	363.70 E	372.85	3.88
1794.05	40.200	99.100	1701.68	85.30 S	383.74 E	393.09	3.55
1824.71	40.900	99.800	1724.98	88.58 S	403.40 E	413.00	2.72
1855.71	41.100	100.500	1748.38	92.16 S	423.42 E	433.33	1.62
1885.16	40.800	100.500	1770.62	95.68 S	442.40 E	452.62	1.02
1916.56	41.000	99.600	1794.35	99.27 S	462.64 E	473.17	1.98
2010.08	41.600	100.800	1864.61	110.20 S	523.38 E	534.85	1.06
2104.18	42.200	102.600	1934.65	122.95 S	584.91 E	597.69	1.43
2196.72	42.500	103.500	2003.04	137.03 S	645.64 E	660.02	0.73
2289.62	42.600	102.400	2071.48	151.10 S	706.86 E	722.83	0.81
2382.38	41.300	101.700	2140.47	164.05 S	767.50 E	784.84	1.49
2475.33	41.500	102.900	2210.20	177.15 S	827.56 E	846.31	0.88
2567.08	41.000	101.700	2279.18	190.04 S	886.66 E	906.80	1.02
2661.52	40.900	101.900	2350.51	202.70 S	947.25 E	968.69	0.17
2754.22	41.500	100.800	2420.26	214.71 S	1007.11 E	1029.75	1.01
2848.16	40.700	102.200	2491.05	227.01 S	1067.63 E	1091.49	1.30
2941.14	40.300	101.000	2561.75	239.16 S	1126.78 E	1151.87	0.94
3032.74	40.000	101.700	2631.77	250.78 S	1184.68 E	1210.93	0.59
3126.35	41.300	102.800	2702.79	263.73 S	1244.27 E	1271.91	1.59
3219.15	41.500	100.600	2772.40	276.17 S	1304.36 E	1333.27	1.58
3312.54	40.600	101.000	2842.83	287.66 S	1364.60 E	1394.58	1.00
3405.77	39.600	101.900	2914.14	299.57 S	1423.46 E	1454.63	1.24
3500.05	38.900	102.400	2987.15	312.13 S	1481.77 E	1514.28	0.81
3593.21	40.600	102.700	3058.77	325.07 S	1539.92 E	1573.84	1.84
3687.39	39.700	103.600	3130.76	338.88 S	1599.05 E	1634.56	1.14
3781.42	40.400	102.500	3202.74	352.54 S	1657.99 E	1695.05	1.06
3873.55	41.100	100.500	3272.54	364.52 S	1716.92 E	1755.18	1.61
3967.71	39.500	103.500	3344.36	377.15 S	1776.47 E	1816.06	2.67
4061.39	40.600	101.200	3416.07	390.03 S	1835.35 E	1876.33	1.97
4156.33	39.600	100.500	3488.69	401.55 S	1895.41 E	1937.47	1.16
4250.31	38.800	100.300	3561.52	412.27 S	1953.83 E	1996.84	0.86
4343.85	39.400	101.000	3634.11	423.17 S	2011.81 E	2055.81	0.80
4438.20	38.600	102.200	3707.43	435.11 S	2069.97 E	2115.18	1.17
4530.75	39.000	104.900	3779.57	448.70 S	2126.33 E	2173.15	1.88
4624.47	38.300	107.100	3852.76	464.82 S	2182.59 E	2231.54	1.65
4719.09	39.200	107.600	3926.55	482.48 S	2239.12 E	2290.52	1.01
4811.01	37.700	106.600	3998.54	499.30 S	2293.75 E	2347.46	1.77
4904.22	34.900	106.300	4073.65	514.93 S	2346.67 E	2402.47	3.01
4997.15	31.700	105.900	4151.32	529.08 S	2395.68 E	2453.36	3.45

Continued...

Sperry-Sun Drilling Services

Survey Report for Rosa #25A - MWD/SS Survey

Williams Production Company
Mesa Verde Field

San Juan Co., NM
Sec. 16-T31N-R06W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5091.95	28.200	103.300	4233.45	541.06 S	2441.45 E	2500.63	3.94
5184.39	24.500	104.200	4316.27	550.79 S	2481.30 E	2541.63	4.03
5278.35	24.500	99.900	4401.78	558.92 S	2519.38 E	2580.57	1.90
5370.26	22.300	102.000	4486.12	565.82 S	2555.21 E	2617.06	2.56
5462.30	21.300	102.200	4571.58	572.99 S	2588.64 E	2651.24	1.09
5555.48	17.100	104.300	4659.56	579.95 S	2618.47 E	2681.87	4.57
5650.64	15.700	100.300	4750.85	585.71 S	2644.69 E	2708.72	1.89
5830.00	10.500	108.000	4925.49	595.11 S	2684.14 E	2749.26	3.05
6175.00	8.000	259.000	5268.73	609.52 S	2690.52 E	2758.53	5.19
6491.00	8.250	128.000	5583.30	627.77 S	2686.78 E	2758.71	4.68
6854.00	6.000	128.000	5943.47	655.49 S	2722.26 E	2799.22	0.62

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Wellhead.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Wellhead and calculated along an Azimuth of 102.126° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 6854.00ft.,
The Bottom Hole Displacement is 2800.07ft., in the Direction of 103.538° (True).