

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NO.

NM-84682, 29169, 84679

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

CEJA PELON

8. FARM OR LEASE NAME

CEJA PELON 24 14

9. WELL NUMBER

27-24 # 4

10. FIELD AND POOL, OR WILDCAT

UNDESIGNATED MANCOS

11. SEC., T., R., OR BLK. AND SURVEY

SEC 27 T21N R3W

14. PERMIT NO.

15. ELEVATIONS

7033 GL

12. COUNTY OR PARISH

SANDOVAL

13. STATE

N. M.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF [] PULL OR ALTER CASING []
FRACTURE TREAT [] MULTIPLE COMPLETE []
SHOOT OR ACIDIZE [] ABANDON []
REPAIR WELL [] CHANGE PLANS []
OTHER []

SUBSEQUENT REPORT OF:

WATER SHUT-OFF [] REPAIR WELL []
FRACTURE TREATMENT [] ALTERING CASING []
SHOOTING OR ACIDIZING [] ABANDONMENT []
(OTHER) Directional Surveys []

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS

Attached are the directional surveys for this well and a x-section drawing depicting the well bores.

RECEIVED

DEC 17 1993

OIL CON. DIV.
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED

Samuel Gary, Jr.

Attorney-in-Fact

DATE 10/14/93

(This space for Federal or State office use)

APPROVED BY SHIRLEY MONDY

TITLE

Acting
AREA MANAGER
RIO PUERCO RESOURCE AREA

DATE

DEC 15 1993

CONDITIONS OF APPROVAL, IF ANY:

NMOCD

Surface Location:
460' fnl. 125' fwl
Sec. 27. T21N-R3W
GL 7033'

9 5/8" at 327'

The Gary-Williams Company
Ceja Pelon 27-4H
Horizontal Mancos Test
Sandoval County. NM
Cross Section North 24 Deg. West
Well Configuration as of 07/13/93

Note: 2 3/8" tubing set @ 5037'
not shown

Top of liner at 3671'

7" casing at 3926'

Centerline of wellbores

End of wellbore ST #1 @ 5770' MD

End of wellbore ST #2 @ 5983' MD

Pilot Hole (abandoned)

Wellbore cased w/ 4 1/2" liner, not cemented

TD 5500'

500'

HEH 10/8/93

Geoservices-Directional

Deviation report

Well :

CEJA PELON #27-4H

Field :

CEJA PELON

Company :

GARY WILLIAMS

Coordinates

Well head :

Target :

Impact :

X =	0.0	X =	0.0	X =	0.0
Y =	0.0	Y =	0.0	Y =	0.0
Z =	0.0	Z =	0.0	Z =	0.0

Horizontal displacement 0.00 ft

Total vertical depth 0.00 ft Kick off point 0.00 ft

Magnetic declination 11.10 deg Convergence 0.00 deg

Horizontal projection computed in azimuth North 335.94 deg. (MW 24.06)

Surv	Measured	Drift	Azimat	Azimat	Vertical	Horizntl	Horizntl	Average	Relative Coordinates.		Dog leg		
no	depth	angle	magn.	geogr.	depth	prjction	displcmt	Az(geo)	East/West	Nor/South	dleg	d1gH	gr8u
	feet	degree	degree	degree	feet	feet	feet	degree	feet	feet	/100ft		
Computation method : Radius of curvature													
1	0.0	0.00	348.90	360.00	0.0	0.0	0.0	90.00	0.0 E	0.0 N	0.0	0.0	1.0
2	3926.0	0.00	130.00	141.10	3926.0	0.0	0.0	90.00	0.0 E	0.0 N	0.0	-0.0	0.0
3	3968.0	0.87	171.00	182.10	3968.0	-0.3	0.3	161.60	0.1 E	0.3 S	2.0	0.7	2.1
4	4030.0	1.12	177.00	188.10	4030.0	-1.3	1.4	179.88	0.0 E	1.4 S	0.4	0.2	0.4
5	4093.0	1.50	174.50	185.60	4093.0	-2.5	2.8	183.45	0.2 W	2.8 S	0.6	-0.1	0.6
6	4104.0	1.62	175.00	186.10	4104.0	-2.8	3.1	183.69	0.2 W	3.1 S	1.1	0.1	1.1
7	4131.0	2.00	175.00	186.10	4131.0	-3.5	4.0	184.21	0.3 W	3.9 S	1.4	0.0	1.4
8	4162.0	1.25	206.50	217.60	4161.9	-4.1	4.8	187.36	0.6 W	4.7 S	3.6	2.9	-2.4
9	4193.0	3.12	309.00	320.10	4192.9	-3.6	5.0	199.01	1.6 W	4.8 S	11.6	12.6	6.0
10	4224.0	7.87	317.00	328.10	4223.8	-0.7	4.1	235.00	3.4 W	2.4 S	15.5	2.5	15.3
11	4255.0	12.50	318.00	329.10	4254.3	4.7	6.7	290.32	6.2 W	2.3 N	14.9	0.6	14.9
12	4285.0	16.87	321.50	332.60	4283.3	12.3	13.4	312.00	9.9 W	8.9 N	14.8	3.0	14.6
13	4315.0	21.00	327.50	338.60	4311.7	22.0	22.6	321.91	14.0 W	17.8 N	15.2	6.5	13.8
14	4346.0	24.00	327.00	338.10	4340.3	33.9	34.2	327.55	18.3 W	28.8 N	9.7	-0.6	9.7
15	4377.0	26.75	328.00	339.10	4368.3	47.1	47.3	330.64	23.2 W	41.2 N	9.0	1.4	8.9
16	4408.0	29.50	326.00	337.10	4395.6	61.7	61.8	332.40	28.6 W	54.8 N	9.4	-3.0	8.9
17	4438.0	33.12	326.00	337.10	4421.3	77.3	77.3	333.34	34.7 W	69.1 N	12.1	0.0	12.1
18	4469.0	37.00	327.00	338.10	4446.6	95.1	95.1	334.14	41.5 W	85.6 N	12.6	1.9	12.5
19	4499.0	40.87	325.50	336.60	4470.0	114.0	113.9	334.67	48.7 W	103.0 N	13.3	-3.1	12.9
20	4531.0	44.50	323.00	334.10	4493.5	135.6	135.6	334.78	57.8 W	122.7 N	12.5	-5.3	11.3
21	4560.0	47.12	325.00	336.10	4513.7	156.4	156.4	334.82	66.5 W	141.5 N	10.3	4.9	9.0
22	4591.0	49.62	323.50	334.60	4534.3	179.6	179.6	334.89	76.2 W	162.6 N	8.8	-3.6	8.1
23	4620.0	51.62	324.00	335.10	4552.7	202.0	202.0	334.89	85.7 W	182.9 N	7.0	1.3	6.9
24	4651.0	54.12	323.50	334.60	4571.4	226.7	226.7	334.88	96.2 W	205.3 N	8.2	-1.3	8.1
25	4682.0	57.50	322.50	333.60	4588.8	252.3	252.3	334.80	107.4 W	228.3 N	11.2	-2.7	10.9
26	4713.0	60.50	321.00	332.10	4604.8	278.9	278.9	334.62	119.6 W	252.0 N	10.5	-4.1	9.7
27	4742.0	62.75	322.50	333.60	4618.6	304.4	304.4	334.47	131.2 W	274.7 N	9.0	4.6	7.8
28	4772.0	65.25	322.50	333.60	4631.7	331.3	331.4	334.40	143.2 W	298.8 N	8.3	0.0	8.3
29	4803.0	68.00	323.00	334.10	4644.0	359.7	359.8	334.35	155.7 W	324.4 N	9.0	1.5	8.9
30	4835.0	71.50	323.50	334.60	4655.1	389.7	389.8	334.35	168.7 W	351.4 N	11.0	1.5	10.9
31	4865.0	75.50	324.50	335.60	4663.6	418.5	418.6	334.41	180.8 W	377.5 N	13.7	3.2	13.3
32	4896.0	79.87	325.00	336.10	4670.2	448.8	448.8	334.50	193.2 W	405.1 N	14.2	1.6	14.1
33	4927.0	83.62	325.50	336.60	4674.7	479.4	479.5	334.62	205.5 W	433.2 N	12.2	1.6	12.1
34	4958.0	87.37	325.50	336.60	4677.1	510.3	510.4	334.74	217.8 W	461.6 N	12.1	0.0	12.1
35	4988.0	88.00	326.00	337.10	4678.3	540.3	540.3	334.86	229.6 W	489.1 N	2.7	1.7	2.1

ST #1
'A' Sand

Geoservices-Directional

Deviation report

Well : CEJA PELON #27-4H
 Field : CEJA PELON
 Company : GARY WILLIAMS

Coordinates

Well head : Target : Impact :
 X = 0.0 X = 0.0 X = 0.0
 Y = 0.0 Y = 0.0 Y = 0.0
 Z = 0.0 Z = 0.0 Z = 0.0
 Horizontal displacement 0.00 ft
 Total vertical depth 0.00 ft Kick off point 0.00 ft
 Magnetic declination 11.10 deg Convergence 0.00 deg
 Horizontal projection computed in azimuth North 335.94 deg. (NW 24.06)

Surv	Measured	Drift	Azimuth	Azimuth	Vertical	Horizontal	Horizontal	Average	Relative Coordinates.		Dog leg		
no	depth	angle	magnet.	geogr.	depth	prjction	displcmt	Az(geo)	East/West	Nor/South	dleg	dlgH	grdBu
	feet	degree	degree	degree	feet	feet	feet	degree	feet	feet	/100ft		
Computation method : Radius of curvature													
20	4531.0	44.50	323.00	334.10	4493.5	135.6	135.6	334.78	57.8 W	122.7 N	12.5	-5.3	11.3
21	4560.0	47.12	325.00	336.10	4513.7	156.4	156.4	334.82	66.5 W	141.5 N	10.3	4.9	9.0
22	4591.0	49.62	323.50	334.60	4534.3	179.6	179.6	334.89	76.2 W	162.6 N	8.8	-3.6	8.1
23	4620.0	51.62	324.00	335.10	4552.7	202.0	202.0	334.89	85.7 W	182.9 N	7.0	1.3	6.9
24	4651.0	54.12	323.50	334.60	4571.4	226.7	226.7	334.88	96.2 W	205.3 N	8.2	-1.3	8.1
25	4682.0	57.50	322.50	333.60	4588.8	252.3	252.3	334.80	107.4 W	228.3 N	11.2	-2.7	10.9
26	4713.0	60.50	321.00	332.10	4604.8	278.9	278.9	334.62	119.6 W	252.0 N	10.5	-4.1	9.7
27	4742.0	62.75	322.50	333.60	4618.6	304.4	304.4	334.47	131.2 W	274.7 N	9.0	4.6	7.8
28	4772.0	65.25	322.50	333.60	4631.7	331.3	331.4	334.40	143.2 W	298.8 N	8.3	0.0	8.3
29	4803.0	68.00	323.00	334.10	4644.0	359.7	359.8	334.35	155.7 W	324.4 N	9.0	1.5	8.9
30	4835.0	71.50	323.50	334.60	4655.1	389.7	389.8	334.35	168.7 W	351.4 N	11.0	1.5	10.9
31	4865.0	75.50	324.50	335.60	4663.6	418.5	418.6	334.41	180.8 W	377.5 N	13.7	3.2	13.3
32	4896.0	79.87	325.00	336.10	4670.2	448.8	448.8	334.50	193.2 W	405.1 N	14.2	1.6	14.1
33	4927.0	83.62	325.50	336.60	4674.7	479.4	479.5	334.62	205.5 W	433.2 N	12.2	1.6	12.1
34	4958.0	87.37	325.50	336.60	4677.1	510.3	510.4	334.74	217.8 W	461.6 N	12.1	0.0	12.1
35	4988.0	88.00	326.00	337.10	4678.3	540.3	540.3	334.86	229.6 W	489.1 N	2.7	1.7	2.1
36	5019.0	86.50	327.00	338.10	4679.8	571.3	571.3	335.01	241.4 W	517.8 N	5.8	3.2	-4.8
37	5050.0	86.50	327.00	338.10	4681.7	602.2	602.2	335.17	252.9 W	546.5 N	0.0	0.0	0.0
38	5081.0	85.75	327.50	338.60	4683.8	633.1	633.1	335.32	264.3 W	575.2 N	2.9	1.6	-2.4
39	5112.0	85.50	326.50	337.60	4686.1	664.0	663.9	335.45	275.9 W	603.9 N	3.3	-3.2	-0.8
40	5142.0	86.37	326.00	337.10	4688.3	693.9	693.8	335.53	287.4 W	631.5 N	3.3	-1.7	2.9
41	5173.0	86.87	324.50	335.60	4690.1	724.8	724.8	335.57	299.8 W	659.9 N	5.1	-4.8	1.6
42	5204.0	86.75	324.50	335.60	4691.8	755.8	755.7	335.57	312.6 W	688.1 N	0.4	0.0	-0.4
43	5234.0	88.00	324.00	335.10	4693.2	785.7	785.7	335.56	325.1 W	715.3 N	4.5	-1.7	4.2
44	5265.0	88.00	324.00	335.10	4694.3	816.7	816.7	335.54	338.1 W	743.4 N	0.0	0.0	0.0
45	5296.0	87.38	323.50	334.60	4695.5	847.7	847.7	335.52	351.3 W	771.4 N	2.5	-1.6	-2.0
46	5327.0	87.50	323.50	334.60	4696.9	878.7	878.6	335.48	364.6 W	799.4 N	0.4	0.0	0.4
47	5358.0	88.12	324.00	335.10	4698.1	909.6	909.6	335.46	377.7 W	827.5 N	2.5	1.6	2.0
48	5388.0	87.87	324.00	335.10	4699.2	939.6	939.6	335.45	390.4 W	854.6 N	0.8	0.0	-0.8
49	5418.0	87.50	324.50	335.60	4700.4	969.6	969.5	335.45	402.9 W	881.9 N	2.1	1.7	-1.2
50	5448.0	86.87	324.50	335.60	4701.8	999.5	999.5	335.45	415.2 W	909.2 N	2.1	0.0	-2.1
51	5479.0	86.37	324.50	335.60	4703.7	1030.5	1030.5	335.46	428.0 W	937.4 N	1.6	0.0	-1.6
52	5510.0	87.75	324.50	335.60	4705.3	1061.4	1061.4	335.46	440.8 W	965.6 N	4.5	0.0	4.5
53	5540.0	87.25	324.00	335.10	4706.6	1091.4	1091.4	335.46	453.3 W	992.8 N	2.3	-1.7	-1.7

Geoservices-Directional

Deviation report

Well :
Field :
Company :

CEJA PELON #27-4H
CEJA PELON
GARY WILLIAMS

Coordinates

Well head :

Target :

Impact :

X = 0.0 X = 0.0 X = 0.0
Y = 0.0 Y = 0.0 Y = 0.0
Z = 0.0 Z = 0.0 Z = 0.0

Horizontal displacement 0.00 ft

Total vertical depth 0.00 ft Kick off point 0.00 ft

Magnetic declination 11.10 deg Convergence 0.00 deg

Horizontal projection computed in azimuth North 335.94 deg. (NW 24.06)

Surv no	Measured depth feet	Drift angle degree	Azimuth magnt. degree	Azimuth geogr. degree	Vertical depth feet	Horizontal prjction feet	Horizontal displcmt feet	Average Az(geo) degree	.Relative Coordinates. East/West feet Nor/South feet		Dog leg dleg dlgh grBu /100ft		
Computation method : Radius of curvature													
46	5327.0	87.50	323.50	334.60	4696.9	878.7	878.6	335.48	364.6 W	799.4 N	0.4	0.0	0.4
47	5358.0	88.12	324.00	335.10	4698.1	909.6	909.6	335.46	377.7 W	827.5 N	2.5	1.6	2.0
48	5388.0	87.87	324.00	335.10	4699.2	939.6	939.6	335.45	390.4 W	854.6 N	0.8	0.0	-0.8
49	5418.0	87.50	324.50	335.60	4700.4	969.6	969.5	335.45	402.9 W	881.9 N	2.1	1.7	-1.2
50	5448.0	86.87	324.50	335.60	4701.8	999.5	999.5	335.45	415.2 W	909.2 N	2.1	0.0	-2.1
51	5479.0	86.37	324.50	335.60	4703.7	1030.5	1030.5	335.46	428.0 W	937.4 N	1.6	0.0	-1.6
52	5510.0	87.75	324.50	335.60	4705.3	1061.4	1061.4	335.46	440.8 W	965.6 N	4.5	0.0	4.5
53	5540.0	87.25	324.00	335.10	4706.6	1091.4	1091.4	335.46	453.3 W	992.8 N	2.3	-1.7	-1.7
54	5571.0	86.50	324.00	335.10	4708.3	1122.4	1122.3	335.45	466.3 W	1020.9 N	2.4	0.0	-2.4
55	5601.0	87.25	324.50	335.60	4709.9	1152.3	1152.3	335.45	478.8 W	1048.1 N	3.0	1.7	2.5
56	5632.0	87.00	324.50	335.60	4711.4	1183.3	1183.3	335.45	491.6 W	1076.3 N	0.8	0.0	-0.8
57	5662.0	87.12	325.50	336.60	4713.0	1213.2	1213.2	335.47	503.8 W	1103.7 N	3.3	3.3	0.4
58	5693.0	86.62	325.00	336.10	4714.7	1244.2	1244.2	335.49	516.2 W	1132.0 N	2.3	-1.6	-1.6
59	5724.0	86.00	324.50	335.60	4716.7	1275.1	1275.1	335.50	528.8 W	1160.3 N	2.5	-1.6	-2.0
60	5755.0	85.62	325.00	336.10	4718.9	1306.0	1306.0	335.51	541.5 W	1188.5 N	2.0	1.6	-1.2

Geoservices-Directional

Deviation report

Well : CEJA PELON #27-4HST1
 Field : CEJA PELON
 Company : GARY WILLIAMS CO.

ST #2

'B' Sand.

Coordinates RECTANGULAR

Well head : Target : Impact :
 X = 0.0 X = 0.0 X = 0.0
 Y = 0.0 Y = 0.0 Y = 0.0
 Z = 0.0 Z = 0.0 Z = 0.0

Horizontal displacement 0.00 ft
 Total vertical depth 0.00 ft Kick off point 0.00 ft
 Magnetic declination 11.10 deg Convergence 0.00 deg
 Horizontal projection computed in azimuth North 335.94 deg. (NW 24.06)

Surv no	Measured depth feet	Drift angle degree	Azimuth magnet. degree	Azimuth geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmnt feet	Average Az(geo) degree	Relative Coordinates East/West feet	Nor/South feet	Dog leg /100f
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Computation method : Radius of curvature

1	0.0	0.00	348.90	360.00	0.0	0.0	0.0	90.00	0.0 E	0.0 N	0.0
2	3926.0	0.00	130.00	141.10	3926.0	0.0	0.0	90.00	0.0 E	0.0 N	0.0
3	3968.0	0.87	171.00	182.10	3968.0	-0.3	0.3	161.60	0.1 E	0.3 S	2.0
4	4030.0	1.12	177.00	188.10	4030.0	-1.3	1.4	179.88	0.0 E	1.4 S	0.4
5	4093.0	1.50	174.50	185.60	4093.0	-2.5	2.8	183.45	0.2 W	2.8 S	0.6
6	4104.0	1.62	175.00	186.10	4104.0	-2.8	3.1	183.69	0.2 W	3.1 S	1.1
7	4131.0	2.00	175.00	186.10	4131.0	-3.5	4.0	184.21	0.3 W	3.9 S	1.4
8	4162.0	1.25	206.50	217.60	4161.9	-4.1	4.8	187.38	0.6 W	4.7 S	3.6
9	4193.0	3.12	309.00	320.10	4192.9	-3.8	5.0	199.01	1.6 W	4.8 S	11.6
10	4224.0	7.87	317.00	328.10	4223.8	-0.7	4.1	235.00	3.4 W	2.4 S	15.5
11	4255.0	12.50	318.00	329.10	4254.3	4.7	6.7	290.32	6.2 W	2.3 N	14.9
12	4285.0	16.87	321.50	332.60	4283.3	12.3	13.4	312.00	9.9 W	8.9 N	14.8
13	4315.0	21.00	327.50	338.60	4311.7	22.0	22.6	321.91	14.0 W	17.8 N	15.2
14	4346.0	24.00	327.00	338.10	4340.3	33.9	34.2	327.55	18.3 W	28.8 N	9.7
15	4377.0	26.75	328.00	339.10	4368.3	47.1	47.3	330.64	23.2 W	41.2 N	9.0
16	4408.0	29.50	328.00	337.10	4395.6	61.7	61.8	332.40	28.6 W	54.8 N	9.4
17	4438.0	33.12	326.00	337.10	4421.3	77.3	77.3	333.34	34.7 W	69.1 N	12.1
18	4469.0	37.00	327.00	338.10	4446.6	95.1	95.1	334.14	41.5 W	85.6 N	12.6
19	4499.0	40.87	325.50	336.60	4470.0	114.0	113.9	334.67	48.7 W	103.0 N	13.3
20	4531.0	44.50	323.00	334.10	4493.5	135.8	135.6	334.78	57.8 W	122.7 N	12.5
21	4560.0	47.12	325.00	336.10	4513.7	156.4	156.4	334.82	66.5 W	141.5 N	10.3
22	4591.0	49.62	323.50	334.60	4534.3	179.6	179.6	334.89	76.2 W	162.6 N	8.8
23	4620.0	50.88	323.50	334.60	4552.8	201.9	201.9	334.86	85.8 W	182.7 N	4.3
24	4649.0	47.62	323.00	334.10	4571.8	223.8	223.8	334.81	95.3 W	202.5 N	11.3
25	4680.0	44.87	321.00	332.10	4593.2	246.2	246.2	334.65	105.4 W	222.5 N	10.0
26	4711.0	44.62	318.50	329.60	4615.2	267.9	268.0	334.34	116.0 W	241.6 N	5.7
27	4741.0	44.87	317.00	328.10	4636.5	288.9	289.0	333.84	127.0 W	259.6 N	3.6
28	4772.0	45.25	316.50	327.60	4658.4	310.6	310.8	333.51	138.6 W	278.2 N	1.6
29	4802.0	46.00	317.50	328.60	4679.4	331.9	332.2	333.16	150.0 W	296.4 N	3.4
30	4833.0	48.62	320.50	331.60	4700.4	354.5	354.9	332.97	161.3 W	316.2 N	11.0
31	4865.0	52.50	322.00	333.10	4720.7	379.2	379.7	332.93	172.8 W	338.1 N	12.6
32	4896.0	57.12	322.00	333.10	4738.6	404.5	405.0	332.94	184.2 W	360.6 N	14.9
33	4926.0	61.25	322.50	333.60	4754.0	430.2	430.7	332.96	195.8 W	383.7 N	13.8
34	4957.0	64.75	325.00	336.10	4768.0	457.8	458.3	333.08	207.5 W	408.7 N	13.4
35	4988.0	66.75	325.00	336.10	4780.8	486.1	486.6	333.25	219.0 W	434.5 N	6.4

Geoservices-Directional

Deviation report

Company :

GARY WILLIAMS CO.

Surv no	Measured depth feet	Drift angle degree	Azmut magnt. degree	Azmut geogr. degree	Vertical depth feet	Horizntl prjction feet	Horizntl displcmt feet	Average Az(geo) degree	Relative East/West feet	Coordinates. Nor/South feet	Dog leg /100f
Computation method : Radius of curvature											
36	5018.0	69.50	324.00	335.10	4791.9 ✓	513.9	514.4	333.38	230.5 W	459.8 N	9.7
37	5049.0	72.37	323.00	334.10	4802.1	543.2	543.7	333.44	243.1 W	488.3 N	9.7
38	5080.0	75.12	322.00	333.10	4810.7	573.0	573.4	333.45	256.3 W	513.0 N	9.4
39	5111.0	78.00	322.00	333.10	4817.9	603.1	603.6	333.44	269.9 W	539.9 N	9.3
40	5141.0	81.12	322.00	333.10	4823.4 ✓	632.5	633.1	333.42	283.3 W	566.2 N	10.4
41	5172.0	84.50	322.50	333.60	4827.3	663.3	663.8	333.42	297.1 W	593.7 N	11.0
42	5203.0	87.12	322.50	333.60	4828.5	694.1	694.7	333.42	310.8 W	621.3 N	8.4
43	5234.0	87.00	322.00	333.10	4831.1	725.1	725.7	333.42	324.7 W	649.0 N	1.6
44	5264.0	86.62	322.50	333.60	4832.8 ✓	755.0	755.7	333.42	338.1 W	675.8 N	2.1
45	5295.0	88.37	323.50	334.60	4834.1	785.9	786.6	333.45	351.7 W	703.6 N	6.5
46	5325.0	88.50	323.50	334.60	4835.0	815.9	816.6	333.49	364.5 W	730.7 N	0.4
47	5356.0	88.25	323.50	334.60	4835.8	846.9	847.6	333.53	377.8 W	758.7 N	0.8
48	5387.0	87.87	324.00	335.10	4836.9 ✓	877.9	878.6	333.58	391.0 W	786.8 N	2.0
49	5417.0	87.75	324.50	335.60	4838.0 ✓	907.9	908.5	333.63	403.5 W	814.0 N	1.7
50	5448.0	88.12	324.00	335.10	4839.2	938.8	939.5	333.69	416.4 W	842.2 N	2.0
51	5479.0	87.37	323.50	334.60	4840.4	969.8	970.5	333.73	429.6 W	870.2 N	2.9
52	5509.0	87.12	324.00	335.10	4841.8	999.8	1000.4	333.76	442.3 W	897.3 N	1.8
53	5540.0	88.50	325.00	336.10	4843.0	1030.7	1031.4	333.82	455.1 W	925.5 N	5.5
54	5571.0	88.62	325.00	336.10	4843.8	1061.7	1062.3	333.88	467.7 W	953.9 N	0.4
55	5601.0	87.87	325.00	336.10	4844.7 ✓	1091.7	1092.3	333.94	479.8 W	981.3 N	2.5

Geoservices-Directional

Deviation report

Well : CEJA PELON #27-4HST1
 Field : CEJA PELON
 Company : GARY WILLIAMS CO.

Coordinates RECTANGULAR

Well head : Target : Impact :
 X = 0.0 X = 0.0 X = 0.0
 Y = 0.0 Y = 0.0 Y = 0.0
 Z = 0.0 Z = 0.0 Z = 0.0
 Horizontal displacement 0.00 ft
 Total vertical depth 0.00 ft Kick off point 0.00 ft
 Magnetic declination 11.10 deg Convergence 0.00 deg
 Horizontal projection computed in azimuth North 335.94 deg. (NW 24.06)

Surv	Measured	Drift	Azimuth	Azimuth	Vertical	Horizontal	Horizontal	Average	Relative Coordinates.		Dog leg		
no	depth	angle	magnet.	geogr.	depth	projection	displacement	Az(geo)	East/West	Nor/South	dleg	dleg	grBu
	feet	degree	degree	degree	feet	feet	feet	degree	feet	feet	/100ft		
Computation method : Radius of curvature													
52	5509.0	87.12	324.00	335.10	4841.8	999.8	1000.4	333.76	442.3 W	897.3 N	1.8	1.7	-0.8
53	5540.0	88.50	325.00	336.10	4843.0	1030.7	1031.4	333.82	455.1 W	925.5 N	5.5	3.2	4.5
54	5571.0	88.62	325.00	336.10	4843.8	1061.7	1062.3	333.88	467.7 W	953.9 N	0.4	0.0	0.4
55	5601.0	87.87	325.00	336.10	4844.7	1091.7	1092.3	333.94	479.8 W	981.3 N	2.5	0.0	-2.5
56	5632.0	87.12	325.00	336.10	4846.1	1122.7	1123.3	334.00	492.4 W	1009.6 N	2.4	0.0	-2.4
57	5662.0	88.37	325.00	336.10	4847.2	1152.7	1153.2	334.06	504.5 W	1037.0 N	4.1	0.0	4.2
58	5693.0	89.00	326.00	337.10	4847.9	1183.7	1184.2	334.12	516.8 W	1065.5 N	3.8	3.2	2.0
59	5724.0	88.75	326.00	337.10	4848.6	1214.6	1215.1	334.20	528.9 W	1094.0 N	0.8	0.0	-0.8
60	5754.0	88.62	326.00	337.10	4849.2	1244.6	1245.1	334.27	540.5 W	1121.6 N	0.4	0.0	-0.4
61	5785.0	89.37	325.50	336.60	4849.8	1275.6	1276.1	334.33	552.7 W	1150.1 N	2.9	-1.6	2.4
62	5816.0	89.12	326.00	337.10	4850.2	1306.6	1307.0	334.39	564.9 W	1178.6 N	1.8	1.6	-0.8
63	5846.0	89.12	326.00	337.10	4850.7	1336.6	1337.0	334.45	578.6 W	1206.3 N	0.0	0.0	0.0
64	5877.0	89.75	325.50	336.60	4851.0	1367.6	1368.0	334.51	588.8 W	1234.8 N	2.6	-1.6	2.0
65	5908.0	89.25	325.50	336.60	4851.2	1398.6	1398.9	334.55	601.1 W	1263.2 N	1.6	0.0	-1.6
66	5939.0	88.87	326.00	337.10	4851.7	1429.6	1429.9	334.60	613.3 W	1291.7 N	2.0	1.6	-1.2