



McVAY DRILLING COMPANY
P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 397-DRILL

30-015-41108

RECEIVED

NOV 13 2013

NMOCD ARTESIA

Well Name and Num: Antares 23 Fed 4H
Location: Sec. 23 T19S, R31E
Operator: Devon
Drilling Contractor: McVay Drilling Company

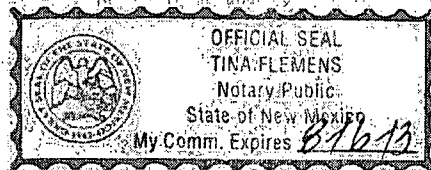
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @	Depth	Degrees @	Depth	Degrees @	Depth	Degrees @	Depth
0.50	345	0.60	5831	86.85	10558		
0.54	672	0.50	6465	87.62	11026		
0.40	1000	0.73	7032	89.93	11593		
0.50	1219	1.46	7676	89.23	11971		
1.10	1534	1.80	7958	88.18	12349		
3.60	2006	0.87	8560	88.18	12726		
3.40	2192	2.00	8623	89.16	12915		
2.70	2446	5.26	8654	88.32	13389		
2.40	2543	36.65	8906	89.16	13672		
1.40	2903	52.74	9033	87.13	13956		
1.60	3206	73.04	9190	88.74	14333		
0.90	3650	88.74	9662	85.52	14805		
1.70	3927	88.95	9757	87.69	15088		
1.70	4301	88.46	9789				
1.90	4669	84.05	10040				
1.70	4937	83.42	10103				
0.86	5221	86.57	10365				

By: Hubert C. [Signature]

Subscribed and sworn to before me this 28th day of May, 2013

Tina FLEMENS
Notary Public, Lea County, New Mexico





Weatherford

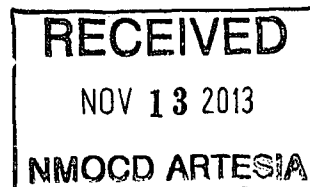
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel: (432) 561-8892 Fax: (432) 561-8895

Devon Energy
333 W. Sheridan Ave.
Oklahoma City, OK, 73102

Date: May 23, 2013

Attention: Spencer Stuart

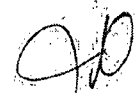
Re: Devon Energy
Well: Antares 23 Fed 4H
Eddy County, New Mexico



Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Justin Edwards MWD Supervisor	4H	8560' MD 15123' MD	5/6/2013 5/21/2013	Measurement While Drilling

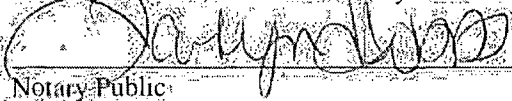
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.



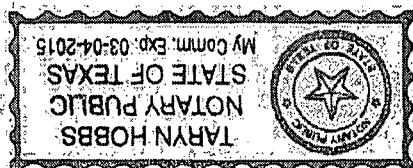
Jesús Aguilar
MWD Coordinator

On this, the 30th day of May, 2013, before me a notary public, the undersigned officer, personally appeared Jesús Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.



Notary Public



devon

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: Devon Energy Date: 5/21/2013 Time: 10:15:57 Page: 1
 Field: Eddy Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: Antares 23 Federal #4H Grid: North
 Site: Antares 23 Federal #4H Vertical (TVD) Reference: SITE 3565.0
 Well: Antares 23 Federal #4H Section (VS) Reference: Well (0.00N 0.00E 104.07Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft.Svy Start Date: 5/8/2013
 Company: Weatherford Engineer: Russell W. Joyner
 Tool: MWD/MWD - Standard Tied to: User Defined

Site: Antares 23 Federal #4H

Site Position: Northing: 598624.17 ft Latitude: 32 38 41.007 N
 From: Map Easting: 690744.41 ft Longitude: 103 50 52.572 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3545.00 ft Grid Convergence: 0.26 deg

Well: Antares 23 Federal #4H Slot Name:
 Well Position: +N-S 0.00 ft Northing: 598624.17 ft Latitude: 32 38 41.007 N
 +E-W 0.00 ft Easting: 690744.41 ft Longitude: 103 50 52.572 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Old Build 10's
 Current Datum: SITE Height: 3565.00 ft Tie-on Depth: 8500.00 ft
 Magnetic Data: 6/6/2013 Above System Datum: Mean Sea Level
 Field Strength: 48667 nT Declination: 7.50 deg
 Vertical Section: Depth From (TVD) +N-S +E-W Direction
 ft ft deg
 0.00 0.00 0.00 104.07

Survey:

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DES deg/100ft	VS ft	MapN ft	MapE ft	Comment
8500.00	0.86	358.43	8497.47	50.56	53.18	0.00	39.29	598674.73	690797.59	Tie On VES
8560.00	0.87	324.22	8557.46	51.38	52.90	0.85	38.82	598675.55	690797.31	First Wft.Svy
8591.00	0.95	304.37	8588.46	51.72	52.55	1.04	38.40	598675.89	690796.96	
8623.00	2.00	243.75	8620.45	51.62	51.83	5.45	37.73	598675.79	690796.24	
8654.00	5.20	220.99	8651.38	50.32	50.42	11.11	36.68	598674.49	690794.83	
8686.00	9.47	217.72	8683.11	47.14	47.86	13.40	34.97	598671.31	690792.27	
8717.00	13.78	218.32	8713.47	42.22	44.01	13.91	32.43	598666.39	690788.42	
8749.00	17.99	218.07	8744.24	35.34	38.60	13.16	28.85	598659.51	690783.01	
8780.00	22.09	216.80	8773.36	26.90	32.15	13.30	24.65	598651.07	690776.56	
8812.00	25.69	215.36	8802.61	16.42	24.53	11.40	19.80	598640.59	690768.94	
8843.00	29.60	215.10	8830.07	4.67	16.24	12.62	14.61	598628.84	690760.65	
8874.00	32.93	214.89	8856.56	-8.50	7.01	10.75	8.87	598615.67	690751.42	
8906.00	36.55	214.85	8882.85	-23.46	-3.41	11.31	2.40	598600.71	690741.00	
8938.00	40.27	214.80	8907.92	-39.78	-14.76	11.63	-4.65	598584.39	690729.65	
8969.00	44.78	215.58	8930.76	-56.90	-26.84	14.65	-12.20	598567.27	690717.57	
9001.00	48.67	216.39	8952.70	-75.74	-40.53	12.29	-20.90	598548.43	690703.88	
9033.00	52.74	218.06	8972.96	-95.45	-55.52	13.34	-30.65	598528.72	690688.89	
9064.00	56.34	219.11	8990.94	-115.18	-71.26	11.94	-41.13	598508.99	690673.15	
9096.00	60.45	219.27	9007.71	-136.30	-88.48	12.85	-52.69	598487.87	690655.93	
9127.00	64.40	220.02	9022.05	-157.45	-106.01	12.92	-64.56	598466.72	690638.40	
9159.00	68.83	220.98	9034.75	-179.78	-125.09	14.11	-77.63	598444.39	690619.32	
9190.00	73.04	221.57	9044.88	-201.79	-144.41	13.70	-91.02	598422.38	690600.00	
9221.00	76.46	221.52	9053.03	-224.17	-164.25	11.03	-104.82	598400.00	690580.16	
9253.00	78.58	221.35	9059.94	-247.59	-184.92	6.65	-119.18	598376.58	690559.49	
9284.00	81.00	221.77	9065.44	-270.42	-205.16	7.92	-133.26	598353.75	690539.25	
9316.00	84.32	221.42	9069.53	-294.15	-226.23	10.43	-147.93	598330.02	690518.18	
9347.00	87.90	219.96	9071.63	-317.60	-246.39	12.47	-161.78	598306.57	690498.02	
9379.00	88.81	217.07	9072.55	-342.63	-266.30	9.46	-175.02	598281.54	690478.11	
9410.00	88.11	213.96	9073.38	-367.85	-284.30	10.28	-186.35	598256.32	690460.11	
9442.00	87.55	210.47	9074.59	-394.90	-301.35	11.04	-196.30	598229.27	690443.06	

RECEIVED
 NOV 13 2013
 NMCD ARTESIA

devon

Weatherford

WFT Survey Report X & Y's



Weatherford

Company: Devon Energy Date: 5/21/2013 Time: 10:15:57 Page: 2
 Field: Eddy Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: Antares 23 Federal #4H Grid North
 Site: Antares 23 Federal #4H Vertical (TVD) Reference: SITE3565.0
 Well: Antares 23 Federal #4H Section (VS) Reference: Well: (0.00N 0.00E 104.07Azi)
 Wellpath: Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
9473.00	86.22	206.38	9076.28	-422.11	-316.08	13.85	-203.98	598202.06	690428.33	
9504.00	86.92	202.74	9078.13	-450.25	-328.94	11.94	-209.61	598173.92	690415.47	
9536.00	87.62	199.49	9079.66	-480.07	-340.45	10.38	-213.53	598144.10	690403.96	
9568.00	88.11	196.64	9080.85	-510.46	-350.36	9.03	-215.76	598113.71	690394.05	
9599.00	87.97	192.79	9081.91	-540.42	-358.23	12.42	-216.10	598083.75	690386.18	
9630.00	88.18	189.33	9082.95	-570.83	-364.18	11.18	-214.48	598053.34	690380.23	
9662.00	88.74	185.36	9083.81	-602.55	-368.26	12.52	-210.73	598021.62	690376.15	
9694.00	89.23	182.25	9084.38	-634.47	-370.39	9.84	-205.03	597989.70	690374.02	
9725.00	89.65	179.67	9084.68	-665.46	-370.91	8.43	-198.00	597958.71	690373.50	
9757.00	88.95	176.48	9085.07	-697.43	-369.83	10.21	-189.19	597926.74	690374.58	
9789.00	88.46	173.45	9085.80	-729.30	-367.02	9.59	-178.72	597894.87	690377.39	
9820.00	86.85	170.90	9087.07	-759.98	-362.81	9.72	-167.17	597864.19	690381.60	
9852.00	86.08	168.24	9089.04	-791.39	-357.03	8.64	-153.92	597832.78	690387.38	
9883.00	85.45	165.47	9091.33	-821.49	-350.00	9.14	-139.79	597802.68	690394.41	
9914.00	85.03	162.26	9093.90	-851.16	-341.41	10.41	-124.25	597773.01	690403.00	
9946.00	84.54	159.24	9096.81	-881.24	-330.91	9.52	-106.74	597742.93	690413.50	
9977.00	84.61	157.02	9099.74	-909.88	-319.41	7.13	-88.63	597714.29	690425.00	
10009.00	84.26	153.87	9102.85	-938.85	-306.18	9.86	-68.75	597685.32	690438.23	
10040.00	84.05	150.95	9106.00	-966.18	-291.90	9.39	-48.26	597657.99	690452.51	
10072.00	83.98	147.47	9109.34	-993.51	-275.61	10.82	-25.81	597630.66	690468.80	
10103.00	83.42	144.17	9112.74	-1019.00	-258.30	10.73	-2.83	597605.17	690486.11	
10135.00	83.07	141.34	9116.51	-1044.29	-239.07	8.85	21.98	597579.88	690505.34	
10166.00	83.42	138.15	9120.16	-1067.79	-219.18	10.28	46.98	597556.38	690525.23	
10197.00	84.05	134.86	9123.54	-1090.14	-197.97	10.74	72.98	597534.03	690546.44	
10229.00	84.33	131.61	9126.78	-1111.94	-174.78	10.14	100.78	597512.23	690569.63	
10260.00	84.80	128.26	9129.77	-1131.74	-151.13	10.79	128.54	597492.43	690593.28	
10292.00	84.96	124.88	9132.68	-1150.73	-125.54	10.58	157.98	597473.44	690618.87	
10323.00	85.80	122.25	9135.18	-1167.81	-99.79	8.88	187.10	597456.36	690644.62	
10355.00	86.57	119.43	9137.31	-1184.17	-72.38	9.12	217.67	597440.00	690672.03	
10386.00	87.69	115.80	9138.86	-1198.52	-44.95	12.24	247.77	597425.65	690699.46	
10417.00	88.67	112.74	9139.85	-1211.26	-16.71	10.36	278.26	597412.91	690727.70	
10449.00	89.93	109.55	9140.24	-1222.80	13.13	10.72	310.01	597401.37	690757.54	
10480.00	89.72	106.11	9140.33	-1232.29	42.64	11.12	340.93	597391.88	690787.05	
10512.00	88.04	102.77	9140.96	-1240.27	73.61	11.68	372.92	597383.90	690818.02	
10543.00	86.85	100.05	9142.34	-1246.39	103.97	9.57	403.85	597377.78	690848.38	
10558.00	86.85	98.54	9143.17	-1248.81	118.75	10.05	418.78	597375.36	690863.16	
10586.00	87.41	95.72	9144.57	-1252.28	146.49	10.26	446.54	597371.89	690890.90	
10617.00	87.48	93.28	9145.95	-1254.71	177.36	7.87	477.07	597369.46	690921.77	
10649.00	87.62	91.56	9147.32	-1256.06	209.30	5.39	508.38	597368.11	690953.71	
10743.00	87.13	88.58	9151.62	-1256.18	303.20	3.21	599.48	597367.99	691047.61	
10838.00	87.41	88.75	9156.15	-1253.96	398.06	0.34	690.97	597370.21	691142.47	
10932.00	87.41	88.05	9160.40	-1251.34	491.93	0.74	781.38	597372.83	691236.34	
11026.00	87.62	87.87	9164.47	-1248.00	585.78	0.29	871.60	597376.17	691330.19	
11121.00	87.55	87.67	9168.48	-1244.31	680.62	0.22	962.70	597379.88	691425.03	
11215.00	87.76	87.75	9172.32	-1240.55	774.47	0.24	1052.82	597383.62	691518.88	
11310.00	88.25	88.09	9175.63	-1237.11	869.35	0.63	1144.02	597387.06	691613.76	
11404.00	88.74	88.39	9178.10	-1234.22	963.27	0.61	1234.42	597389.95	691707.68	
11499.00	89.23	88.37	9179.78	-1231.54	1058.22	0.52	1325.87	597392.63	691802.63	
11593.00	89.93	88.59	9180.47	-1229.04	1152.18	0.78	1416.41	597395.13	691896.59	
11687.00	88.25	88.28	9181.96	-1226.48	1246.13	1.82	1506.91	597397.69	691990.54	
11782.00	87.97	88.76	9185.10	-1224.02	1341.05	0.58	1598.39	597400.15	692085.46	
11876.00	88.60	89.45	9187.91	-1222.56	1434.99	0.99	1689.16	597401.61	692179.40	



Weatherford

WFT Survey Report X & Y's



Company: Devon Energy	Date: 5/21/2013	Time: 10:15:57	Page: 3
Field: Eddy Co. NM (NAD 83)	Co-ordinate (NE) Reference: Well: Antares 23 Federal #4H	Grid North	
Site: Antares 23 Federal #4H	Vertical (TVD) Reference: SITE 3565.0		
Well: Antares 23 Federal #4H	Section (VS) Reference: Well (0.00N, 0.00E, 104.07Az)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11971.00	89.23	89.67	9189.71	-1221.83	1529.97	0.70	1781.11	597402.34	692274.38	
12066.00	87.34	90.04	9192.55	-1221.59	1624.93	2.03	1873.15	597402.58	692369.34	
12160.00	86.99	90.17	9197.20	-1221.76	1718.81	0.40	1964.26	597402.41	692463.22	
12254.00	87.76	90.79	9201.51	-1222.55	1812.71	1.05	2055.54	597401.62	692557.12	
12349.00	88.18	90.88	9204.87	-1223.93	1907.64	0.45	2147.95	597400.24	692652.05	
12443.00	88.88	91.31	9207.28	-1225.72	2001.59	0.87	2239.52	597398.45	692746.00	
12537.00	87.55	90.50	9210.21	-1227.21	2095.53	1.66	2331.01	597396.96	692839.94	
12632.00	87.62	90.21	9214.21	-1227.80	2190.44	0.31	2423.21	597396.37	692934.85	
12726.00	88.18	90.22	9217.66	-1228.15	2284.38	0.60	2514.42	597396.02	693028.79	
12820.00	88.67	90.50	9220.24	-1228.74	2378.34	0.60	2605.70	597395.43	693122.75	
12915.00	89.16	90.44	9222.04	-1229.52	2473.32	0.52	2698.02	597394.65	693217.73	
13009.00	87.55	90.31	9224.74	-1230.13	2567.28	1.72	2789.31	597394.04	693311.69	
13103.00	86.78	90.04	9229.39	-1230.42	2661.16	0.87	2880.45	597393.75	693405.57	
13198.00	87.06	90.20	9234.49	-1230.62	2756.02	0.34	2972.51	597393.55	693500.43	
13293.00	87.62	90.41	9238.90	-1231.12	2850.92	0.63	3064.68	597393.05	693595.33	
13389.00	88.32	90.32	9242.30	-1231.74	2946.86	0.74	3157.89	597392.43	693691.27	
13484.00	87.90	88.52	9245.43	-1230.78	3041.80	1.94	3249.75	597393.39	693786.21	
13578.00	88.60	88.10	9248.31	-1228.00	3135.71	0.87	3340.17	597396.17	693880.12	
13672.00	89.16	87.82	9250.14	-1224.66	3229.63	0.67	3430.46	597399.51	693974.04	
13767.00	89.72	87.34	9251.07	-1220.65	3324.54	0.78	3521.55	597403.52	694068.95	
13861.00	88.95	88.19	9252.16	-1216.98	3418.46	1.22	3611.76	597407.19	694162.87	
13956.00	87.13	88.59	9255.41	-1214.31	3513.37	1.96	3703.17	597409.86	694257.78	
14050.00	87.20	88.29	9260.06	-1211.76	3607.22	0.33	3793.58	597412.41	694351.63	
14144.00	87.55	87.94	9264.37	-1208.67	3701.07	0.53	3883.87	597415.50	694445.48	
14239.00	88.11	87.98	9267.96	-1205.29	3795.94	0.59	3975.07	597418.88	694540.35	
14333.00	88.74	88.05	9270.55	-1202.04	3889.84	0.67	4065.37	597422.13	694634.25	
14427.00	88.95	89.00	9272.44	-1199.62	3983.79	1.03	4155.91	597424.55	694728.20	
14522.00	89.09	89.63	9274.07	-1198.48	4078.77	0.68	4247.77	597425.69	694823.18	
14616.00	87.90	89.53	9276.54	-1197.79	4172.74	1.27	4338.74	597426.38	694917.15	
14711.00	85.73	89.56	9281.81	-1197.04	4267.58	2.28	4430.56	597427.13	695011.99	
14805.00	85.52	89.25	9288.98	-1196.07	4361.30	0.40	4521.23	597428.10	695105.71	
14900.00	86.43	88.97	9295.65	-1194.59	4456.05	1.00	4612.78	597429.58	695200.46	
14994.00	87.27	88.98	9300.82	-1192.91	4549.90	0.89	4703.40	597431.26	695294.31	
15088.00	87.69	88.94	9304.95	-1191.21	4643.79	0.45	4794.06	597432.96	695388.20	
15123.00	88.18	88.75	9306.21	-1190.51	4678.76	1.50	4827.81	597433.66	695423.17	Last Wft Svy
15203.00	88.18	88.75	9308.75	-1188.76	4758.70	0.00	4904.93	597435.41	695503.11	Proj. To Bit

Annotation

MD ft	TVD ft	
8500.00	8497.47	Tie On VES
8560.00	8557.46	First Wft Svy
15123.00	9306.21	Last Wft Svy
15203.00	9308.75	Proj. To Bit

devon

Antares 23 Federal #4H
Eddy Co., New Mexico

KB ELEV: 3565
GL ELEV: 3545

SECTION DETAILS

Sec	MD	Inc	Az	TVD	N-S	E-W	DLeg	TFace	VSec	Target
1	8500.00	0.86	358.43	8497.47	50.56	53.18	0.00	0.00	39.29	
2	8592.54	0.86	358.43	8590.00	51.95	53.14	0.00	0.00	38.92	
3	9332.03	88.08	218.50	9072.66	106.37	-237.64	12.00	220.05	-156.03	
4	10620.53	88.08	89.52	9152.79	-1232.66	213.99	10.00	-94.01	507.24	
5	15173.97	88.08	89.52	9305.00	-1194.15	4764.72	0.00	0.00	4912.08	PBHL Build 12's

WELL DETAILS

Name	N-S	E-W	Northing	Easting	Latitude	Longitude	Ster
Antares 23 Federal #4H	0.00	0.00	598624.17	690744.41	32°38'41.007N	103°50'52.572W	N/A

TARGET DETAILS

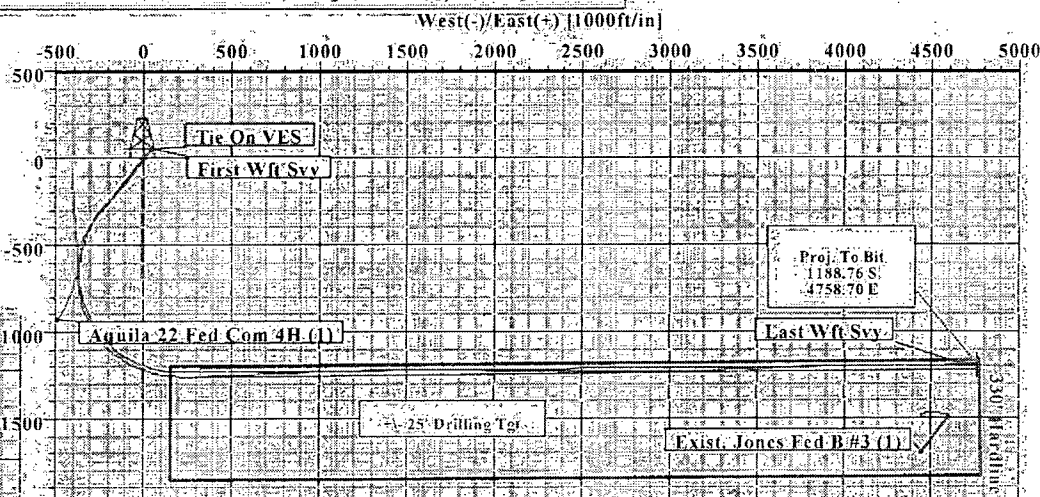
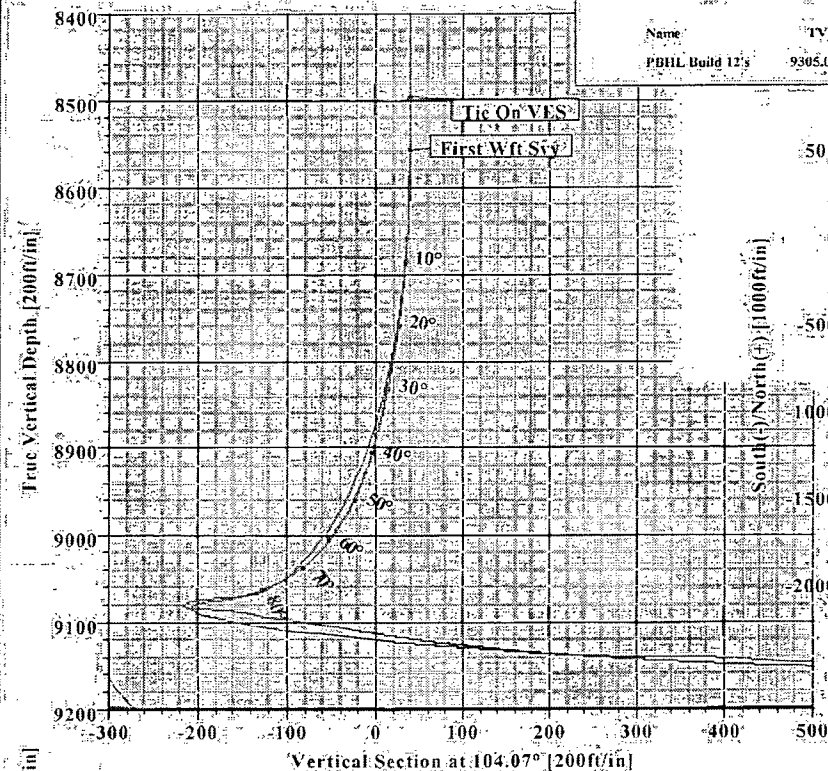
Name	TVD	N-S	E-W	Northing	Easting	Shape
PBHL Build 12's	9305.00	-1194.15	4764.72	597430.02	695509.13	Rectangle (4440x50)

SITE DETAILS

Antares 23 Federal #4H
Site Centre Northing: 598624.17
Easting: 690744.41
Ground Level: 3545.00
Positional Uncertainty: 0.00
Convergence: 0.26

LEGEND

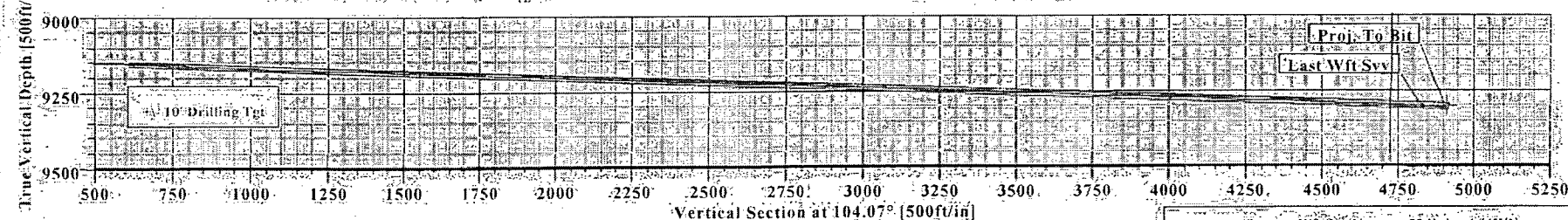
- Antares 23 Federal #4H.1 Gyro
- Antares 23 Federal #4H.1 Plan #2
- Aquila 22 Fed Com 4H (1)
- Exist Jones Fed B #3 (1)
- Wft Svy



Survey: Wft Svy (Antares 23 Federal #4H/1)

No	MD	Inc	Az	TVD	N-S	E-W	DLeg	TFace	VSec
118	15203.00	88.18	88.75	9308.75	-1188.76	4758.70	0.00	0.00	4904.93

Weatherford



Survey: Wft Svy (Antares 23 Federal #4H/1)

Created By: Russell W. Joyner

Date: 5/21/2013