

Scientific Drilling

SUR: P-17-19s-32e, 330/S & 600/E
BHL: A-17-19s-32e, 4952/S & 418/E
API # 30-025-39484

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MAY 17 2010

HOBBSOCD

MARBOB ENERGY

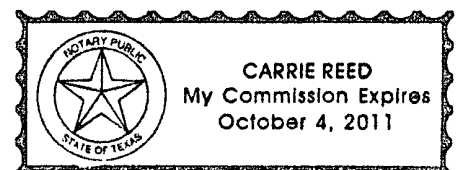
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Stealth Federal Com #1
Wellpath: VH - Job #32K0110014
Survey: 01/07/10

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Richard..... Company Representative

Notorized this date 28th of January, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International Survey Report

Company: MARBOB ENERGY
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Stealth Federal Com #1
Wellpath: VH - Job #32K0110014

Date: 01/12/2010 Time: 15:28:52 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/07/10 Start Date: 01/07/2010
KSRG 0'-10133'
Company: Scientific Drilling Internatio Engineer: Melendez w/Express
Tool: Keeper;Keeper Gyro Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.76	160.19	100.00	0.11	-0.62	0.22	0.76	0.66	160.19
200.00	0.38	192.10	199.99	0.45	-1.57	0.38	0.48	1.62	166.41
300.00	0.48	197.41	299.99	0.97	-2.30	0.19	0.11	2.30	175.39
400.00	0.57	214.76	399.99	1.73	-3.10	-0.22	0.18	3.11	184.12
500.00	0.57	221.48	499.98	2.64	-3.89	-0.84	0.07	3.97	192.15
600.00	0.58	214.45	599.98	3.57	-4.68	-1.45	0.07	4.90	197.26
700.00	1.14	250.58	699.96	5.00	-5.42	-2.68	0.75	6.05	206.27
800.00	1.50	249.36	799.94	7.28	-6.22	-4.84	0.36	7.88	217.91
900.00	1.41	248.56	899.91	9.79	-7.13	-7.21	0.09	10.14	225.33
1000.00	0.85	245.04	999.89	11.75	-7.89	-9.03	0.56	11.99	228.85
1100.00	0.56	238.17	1099.88	12.97	-8.46	-10.12	0.30	13.19	230.09
1200.00	0.52	250.82	1199.87	13.91	-8.87	-10.96	0.13	14.10	231.02
1300.00	0.17	241.52	1299.87	14.50	-9.09	-11.52	0.35	14.67	231.73
1400.00	0.03	299.11	1399.87	14.66	-9.15	-11.67	0.16	14.83	231.92
1500.00	0.04	274.57	1499.87	14.71	-9.13	-11.73	0.02	14.86	232.10
1600.00	0.12	51.16	1599.87	14.63	-9.06	-11.68	0.15	14.78	232.20
1700.00	0.57	45.25	1699.87	14.05	-8.65	-11.25	0.45	14.19	232.45
1800.00	1.24	49.70	1799.86	12.51	-7.60	-10.07	0.67	12.61	232.97
1900.00	1.70	52.88	1899.82	9.97	-6.00	-8.06	0.47	10.05	233.34
2000.00	1.71	43.10	1999.78	7.08	-4.02	-5.86	0.29	7.10	235.57
2100.00	1.73	42.33	2099.73	4.22	-1.81	-3.82	0.03	4.23	244.66
2200.00	1.65	47.25	2199.69	1.38	0.28	-1.75	0.17	1.77	279.18
2300.00	1.66	41.56	2299.65	-1.39	2.34	0.27	0.16	2.36	6.54
2400.00	1.58	50.00	2399.61	-4.12	4.31	2.29	0.25	4.88	27.92
2500.00	1.15	40.16	2499.58	-6.41	5.97	3.99	0.49	7.18	33.76
2600.00	0.42	81.34	2599.57	-7.70	6.79	5.00	0.88	8.43	36.36
2700.00	0.46	181.20	2699.57	-7.83	6.44	5.35	0.67	8.38	39.72
2800.00	0.73	171.93	2799.56	-7.40	5.41	5.43	0.29	7.67	45.12
2900.00	0.98	177.47	2899.55	-6.77	3.93	5.56	0.26	6.81	54.78
3000.00	1.12	191.62	2999.54	-5.74	2.11	5.40	0.29	5.80	68.62
3100.00	1.07	212.03	3099.52	-4.28	0.37	4.71	0.39	4.72	85.56
3200.00	1.08	221.21	3199.50	-2.57	-1.14	3.59	0.17	3.77	107.53
3300.00	1.09	229.79	3299.48	-0.74	-2.46	2.25	0.16	3.33	137.58
3400.00	1.31	235.86	3399.46	1.33	-3.71	0.57	0.25	3.76	171.22
3500.00	1.18	228.39	3499.44	3.48	-5.04	-1.14	0.21	5.17	192.77
3600.00	1.50	238.02	3599.41	5.79	-6.42	-3.02	0.39	7.09	205.22
3700.00	1.71	240.28	3699.37	8.59	-7.85	-5.43	0.22	9.54	214.67
3800.00	1.70	241.70	3799.33	11.57	-9.29	-8.03	0.04	12.28	220.83
3900.00	1.64	242.82	3899.28	14.48	-10.65	-10.61	0.07	15.03	224.89
4000.00	1.71	234.25	3999.24	17.39	-12.17	-13.09	0.26	17.88	227.08
4100.00	1.83	232.69	4099.19	20.46	-14.01	-15.57	0.13	20.95	228.02
4200.00	1.98	233.56	4199.14	23.76	-16.01	-18.23	0.15	24.26	228.72
4300.00	1.98	233.81	4299.08	27.19	-18.05	-21.02	0.01	27.71	229.34
4400.00	1.97	232.66	4399.02	30.61	-20.12	-23.78	0.04	31.15	229.77
4500.00	2.03	240.27	4498.96	34.08	-22.04	-26.68	0.27	34.61	230.45
4600.00	2.00	239.09	4598.90	37.60	-23.81	-29.72	0.05	38.08	231.30
4700.00	2.03	244.68	4698.83	41.11	-25.47	-32.82	0.20	41.54	232.19
4800.00	1.99	241.77	4798.77	44.61	-27.04	-35.95	0.11	44.98	233.04



Scientific Drilling International Survey Report

Company: MARBOB ENERGY
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Stealth Federal Com #1
Wellpath: VH - Job #32K0110014

Date: 01/12/2010 Time: 15:28:52 Page: 2
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.68	241.21	4898.72	47.81	-28.57	-38.76	0.31	48.15	233.61
5000.00	1.46	242.27	4998.68	50.55	-29.87	-41.17	0.22	50.87	234.04
5100.00	1.36	239.46	5098.65	53.01	-31.07	-43.32	0.12	53.31	234.36
5200.00	1.25	234.24	5198.63	55.28	-32.31	-45.23	0.16	55.58	234.46
5300.00	0.87	249.84	5298.61	57.11	-33.21	-46.83	0.47	57.41	234.66
5400.00	0.85	258.25	5398.60	58.57	-33.62	-48.27	0.13	58.82	235.14
5500.00	0.72	263.86	5498.59	59.85	-33.84	-49.62	0.15	60.06	235.71
5600.00	0.61	269.41	5598.58	60.89	-33.91	-50.78	0.13	61.06	236.26
5700.00	0.67	266.95	5698.58	61.88	-33.95	-51.89	0.07	62.01	236.81
5800.00	0.91	267.65	5798.57	63.11	-34.01	-53.27	0.24	63.20	237.44
5900.00	0.90	274.22	5898.56	64.47	-33.98	-54.85	0.10	64.52	238.22
6000.00	0.82	260.54	5998.54	65.80	-34.04	-56.33	0.22	65.82	238.85
6100.00	0.92	259.40	6098.53	67.23	-34.31	-57.83	0.10	67.24	239.32
6200.00	1.02	266.48	6198.52	68.79	-34.51	-59.51	0.16	68.79	239.89
6300.00	0.95	260.66	6298.50	70.36	-34.70	-61.21	0.12	70.36	240.45
6400.00	0.93	274.87	6398.49	71.81	-34.77	-62.84	0.23	71.82	241.05
6500.00	0.85	267.63	6498.48	73.14	-34.73	-64.39	0.14	73.16	241.66
6600.00	0.94	277.67	6598.47	74.45	-34.65	-65.94	0.18	74.49	242.28
6700.00	0.87	259.25	6698.45	75.83	-34.68	-67.50	0.30	75.89	242.81
6800.00	0.93	259.17	6798.44	77.31	-34.98	-69.05	0.06	77.40	243.13
6900.00	0.98	280.81	6898.43	78.73	-34.97	-70.68	0.36	78.86	243.68
7000.00	1.05	297.72	6998.41	79.88	-34.38	-72.33	0.31	80.09	244.58
7100.00	0.85	284.57	7098.40	80.91	-33.77	-73.86	0.29	81.22	245.43
7200.00	0.79	269.32	7198.39	82.04	-33.59	-75.27	0.23	82.42	245.95
7300.00	0.77	255.84	7298.38	83.30	-33.76	-76.61	0.18	83.72	246.22
7400.00	0.72	266.20	7398.37	84.51	-33.97	-77.89	0.14	84.97	246.44
7500.00	0.76	274.25	7498.36	85.63	-33.96	-79.18	0.11	86.15	246.78
7600.00	1.15	278.26	7598.35	86.97	-33.77	-80.83	0.40	87.60	247.33
7700.00	1.38	260.10	7698.32	88.90	-33.83	-83.01	0.46	89.64	247.83
7800.00	1.52	271.63	7798.29	91.16	-34.00	-85.52	0.32	92.03	248.32
7900.00	1.65	241.85	7898.26	93.74	-34.64	-88.12	0.82	94.68	248.54
8000.00	1.81	232.75	7998.21	96.74	-36.28	-90.64	0.32	97.63	248.19
8100.00	1.56	211.49	8098.17	99.50	-38.39	-92.61	0.67	100.26	247.48
8200.00	1.76	201.53	8198.13	101.89	-40.98	-93.89	0.35	102.44	246.42
8300.00	1.50	207.06	8298.09	104.17	-43.58	-95.05	0.30	104.56	245.37
8400.00	1.48	198.06	8398.05	106.22	-45.97	-96.04	0.23	106.48	244.42
8500.00	1.42	194.91	8498.02	108.04	-48.40	-96.76	0.10	108.19	243.43
8600.00	1.50	191.66	8597.99	109.77	-50.87	-97.34	0.12	109.84	242.41
8700.00	1.28	207.49	8697.96	111.57	-53.15	-98.12	0.44	111.59	241.56
8800.00	1.29	213.03	8797.93	113.51	-55.08	-99.25	0.12	113.51	240.97
8900.00	1.17	231.56	8897.91	115.52	-56.66	-100.67	0.41	115.52	240.63
9000.00	1.37	244.86	8997.89	117.72	-57.80	-102.55	0.35	117.72	240.59
9100.00	1.53	244.20	9097.85	120.24	-58.89	-104.83	0.16	120.24	240.67
9200.00	1.38	249.96	9197.82	122.76	-59.89	-107.17	0.21	122.76	240.80
9300.00	1.39	245.50	9297.79	125.16	-60.80	-109.40	0.11	125.16	240.94
9400.00	1.39	246.94	9397.76	127.57	-61.78	-111.62	0.03	127.58	241.04
9500.00	1.05	206.38	9497.74	129.53	-63.07	-113.14	0.90	129.54	240.86
9600.00	1.06	220.43	9597.73	131.16	-64.60	-114.15	0.26	131.16	240.49
9700.00	1.33	231.74	9697.70	133.18	-66.02	-115.66	0.36	133.18	240.28
9800.00	1.74	246.78	9797.67	135.83	-67.34	-117.97	0.57	135.84	240.28
9900.00	2.18	243.12	9897.61	139.24	-68.80	-121.06	0.46	139.24	240.39
10000.00	2.47	237.52	9997.53	143.30	-70.82	-124.57	0.37	143.30	240.38



Scientific
Drilling

Scientific Drilling International

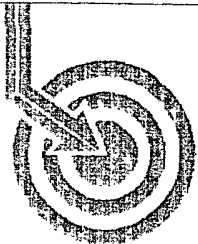
Survey Report

Company: MARBOB ENERGY
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Stealth Federal Com #1
Wellpath: VH - Job #32K0110014

Date: 01/12/2010 Time: 15:28:52 Page: 3
Co-ordinate(NE) Reference: Site: Lea County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,240.44Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
10100.00	2.22	245.57	10097.44	147.38	-72.77	-128.16	0.41	147.38	240.41
10133.00	1.88	243.00	10130.42	148.55	-73.28	-129.22	1.07	148.55	240.44



Scientific Drilling

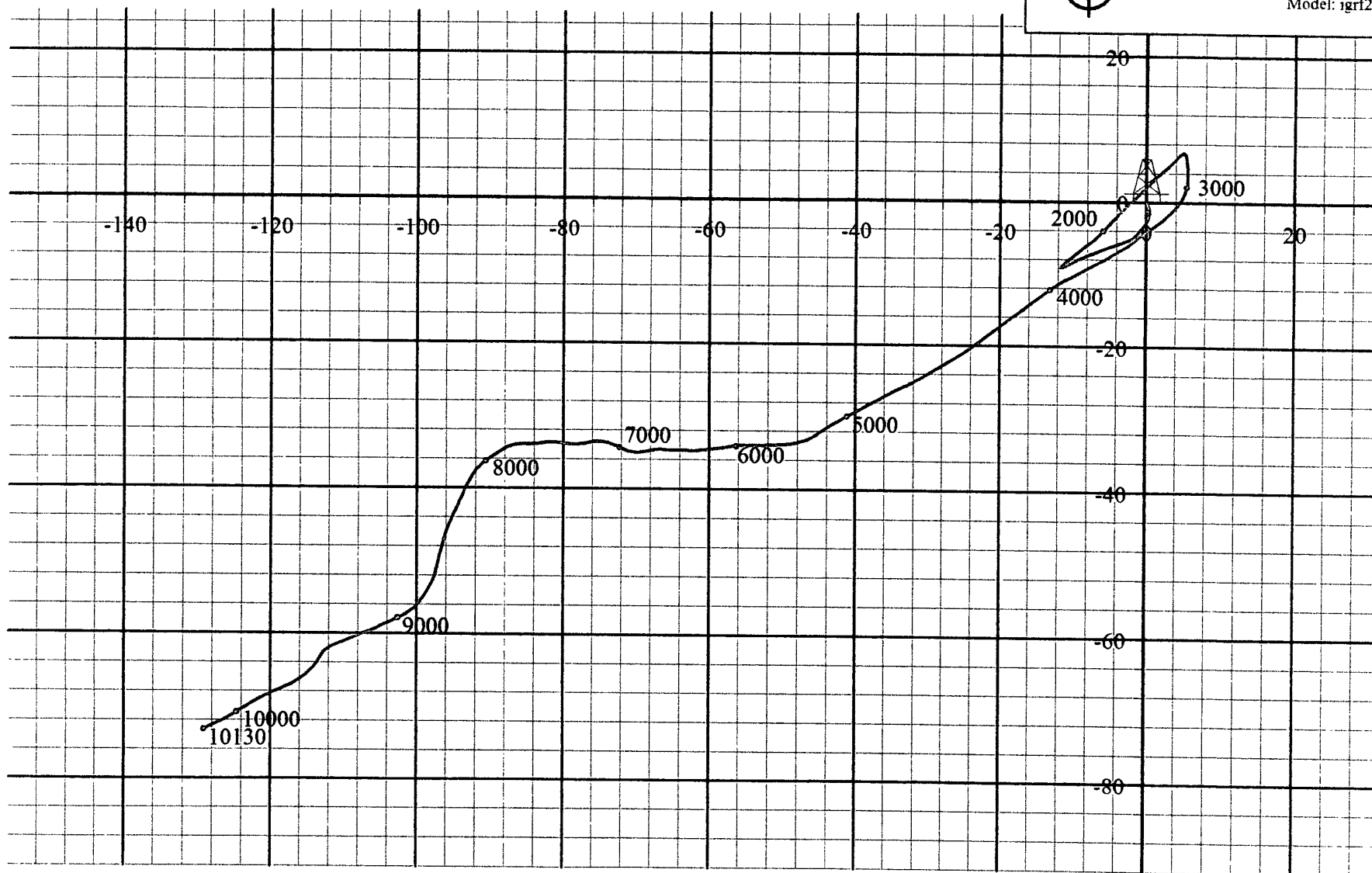
Field: Lusk Bone Springs
Site: Lea County, NM
Well: Stealth Federal Com #1
Wellpath: VH - Job #32K0110014
Survey: 01/07/10



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 01/12/2010
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]



RECEIVED

An Operating Unit of Smith International, Inc.

MAY 17 2010

HOBBSOCD

DIRECTIONAL SURVEY REPORT

MARBOB ENERGY CORPORATION

STEALTH FEDERAL COM #1H

LEA COUNTY, NEW MEXICO

PREPARED BY: FRANCISCO SINISTERRA

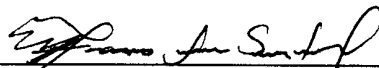


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) Nick Pod
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 01/09/10 TO 01/21/10
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

MARBOB ENERGY CORPORATION
STEALTH FEDERAL COM #1H
LEA COUNTY, NM
RIG: PATRIOT 6
9. SURVEY CERTIFIED FROM: 8025 TO 12920 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4625.11 FEET ON A BEARING OF 2.25 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 12968 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


FRANCISCO SINISTERRA
MWD COORDINATOR



PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 01/10/2010
Date Completed: 01/21/2010

MARBOB ENERGY CORPORATION
STEALTH FEDERAL COM #1 ST01
LUSK; BONE SPRING
Rig: PATRIOT #6
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: R.DONARUMMA
N.POND

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.39.14.3541 N LON: 103.46.52.4621 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 669921.4000 Y: 602073.5000
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.58° EAST TO GRID
Vertical Section Plane: 2.32
Survey Vert. Reference: 18.60' Kelly Bushing To Ground
Altitude: 3595.00' Ground To MSL

Measured Depth	12968.00	(feet)
Inclination	92.59	(deg)
Azimuth	2.82	(deg)
True Vertical Depth	8527.42	(feet)
Vertical Section	4625.10	(feet)
Survey X cord	670103.23	(feet)
Survey Y cord	606695.03	(feet)
Survey Lat	32.66668773 N	(deg)
Survey Lon	103.78057055 W	(deg)
Rectangular Corr. N/S	4621.53 N	(feet)
Rectangular Corr. E/W	181.83 E	(feet)
Closure Distance	4625.11	(feet)
Direction of Closure	2.25	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION

STEALTH FEDERAL COM #1 ST01

LUSK; BONE SPRING

Rig: PATRIOT #6

PathFinder Office Supervisor: FRANCISCO SINISTERRA

PathFinder Field Engineers: R.DONARUMMA
N.POND

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.39.14.3541 N LON: 103.46.52.4621 W

Reference: NAD27 new mexico east Transverse Mercator

Ref GRID Coord: X: 669921.4000 Y: 602073.5000

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.58° EAST TO GRID

Vertical Section Plane: 2.32

Survey Vert. Reference: 18.60' Kelly Bushing To Ground

Altitude: 3595.00' Ground To MSL

Survey Calculations by RX5 V6.02A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
TIE IN TO SCIENTIFIC GYRO @ 8000'MD.											
8000.00	1.81	232.75	7998.21	7979.61	-39.92	36.28 S	90.64 W	97.63@	248.19	0.00	0.00
THE FOLLOWING ARE PATHFINDER SURVEYS.											
8025.00	3.61	330.49	8023.19	8004.59	-39.50	35.83 S	91.34 W	98.12@	248.58	17.00	104.64
8057.00	9.67	354.48	8054.97	8036.37	-35.98	32.28 S	92.10 W	97.59@	250.69	20.43	104.64
8088.00	11.78	357.74	8085.42	8066.82	-30.25	26.52 S	92.47 W	96.20@	254.00	7.08	108.25
8117.00	16.71	8.20	8113.53	8094.93	-23.14	19.43 S	91.99 W	94.03@	258.07	19.11	108.25
8149.00	19.87	17.97	8143.91	8125.31	-13.32	9.70 S	89.66 W	90.18@	263.82	13.73	108.25
8180.00	19.79	17.74	8173.08	8154.48	-3.19	0.31 N	86.44 W	86.44@	270.20	0.36	104.64
8212.00	20.58	15.00	8203.11	8184.51	7.52	10.90 N	83.33 W	84.04@	277.45	3.85	104.64
8244.00	23.65	11.27	8232.76	8214.16	19.35	22.63 N	80.62 W	83.73@	285.68	10.54	104.64
8276.00	27.70	6.74	8261.59	8242.99	33.11	36.32 N	78.49 W	86.48@	294.83	14.05	108.25
8308.00	31.22	2.64	8289.45	8270.85	48.83	51.99 N	77.23 W	93.11@	303.95	12.67	108.25
8339.00	35.09	2.37	8315.40	8296.80	65.78	68.93 N	76.50 W	102.97@	312.02	12.49	108.25
8371.00	39.22	1.76	8340.90	8322.30	85.10	88.24 N	75.80 W	116.33@	319.33	12.96	108.25
8403.00	43.70	1.82	8364.88	8346.28	106.28	109.41 N	75.14 W	132.73@	325.52	14.00	108.25
8435.00	47.48	2.62	8387.26	8368.66	129.13	132.25 N	74.25 W	151.67@	330.69	11.95	111.87
8467.00	50.39	3.84	8408.28	8389.68	153.25	156.33 N	72.89 W	172.49@	335.00	9.54	108.25
8499.00	53.73	4.89	8427.96	8409.36	178.47	181.49 N	70.96 W	194.87@	338.65	10.75	108.25
8530.00	57.95	5.32	8445.36	8426.76	204.09	207.04 N	68.68 W	218.13@	341.65	13.66	111.87
8562.00	61.29	5.25	8461.54	8442.94	231.65	234.52 N	66.13 W	243.67@	344.25	10.44	111.87
8594.00	64.63	5.08	8476.09	8457.49	260.11	262.90 N	63.57 W	270.48@	346.41	10.45	111.87
8626.00	68.76	4.91	8488.74	8470.14	289.47	292.17 N	61.01 W	298.48@	348.20	12.92	111.87
8657.00	74.04	4.77	8498.63	8480.03	318.81	321.44 N	58.53 W	326.73@	349.68	17.04	111.87
8689.00	76.50	4.64	8506.76	8488.16	349.73	352.28 N	56.00 W	356.70@	350.97	7.70	111.87
8721.00	77.65	4.37	8513.92	8495.32	380.89	383.37 N	53.55 W	387.10@	352.05	3.69	111.87
8753.00	81.69	3.90	8519.66	8501.06	412.35	414.77 N	51.28 W	417.92@	352.95	12.71	111.87

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
STEALTH FEDERAL COM #1 ST01
LUSK; BONE SPRING
RIG: PATRIOT #6

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
8785.00	86.09	3.61	8523.06	8504.46	444.15	446.51 N	49.20 W	449.21@	353.71	13.78	111.87
8816.00	88.02	3.38	8524.66	8506.06	475.10	477.41 N	47.31 W	479.75@	354.34	6.27	115.48
8850.00	88.72	2.71	8525.62	8507.02	509.09	511.35 N	45.50 W	513.37@	354.91	2.85	111.87
8947.00	90.92	2.17	8525.93	8507.33	606.08	608.25 N	41.37 W	609.66@	356.11	2.33	115.48
9041.00	90.84	3.04	8524.48	8505.88	700.07	702.14 N	37.10 W	703.12@	356.98	0.93	115.48
9136.00	88.64	4.13	8524.92	8506.32	795.03	796.95 N	31.16 W	797.56@	357.76	2.58	115.48
9232.00	88.55	3.20	8527.27	8508.67	890.98	892.72 N	25.03 W	893.07@	358.39	0.97	119.09
9327.00	90.22	3.57	8528.29	8509.69	985.95	987.55 N	19.42 W	987.74@	358.87	1.80	119.09
9423.00	90.66	2.49	8527.55	8508.95	1081.94	1083.41 N	14.34 W	1083.50@	359.24	1.22	122.71
9518.00	91.19	2.31	8526.02	8507.42	1176.93	1178.31 N	10.37 W	1178.36@	359.50	0.59	122.71
9613.00	90.48	2.54	8524.63	8506.03	1271.92	1273.22 N	6.35 W	1273.23@	359.71	0.79	122.71
9708.00	89.52	3.42	8524.63	8506.03	1366.91	1368.09 N	1.41 W	1368.09@	359.94	1.37	122.71
9803.00	89.43	3.04	8525.50	8506.90	1461.89	1462.93 N	3.94 E	1462.94@	0.15	0.41	122.71
9899.00	90.22	4.92	8525.80	8507.20	1557.85	1558.69 N	10.61 E	1558.73@	0.39	2.12	122.71
9994.00	90.31	3.91	8525.36	8506.76	1652.78	1653.41 N	17.92 E	1653.51@	0.62	1.07	126.32
10089.00	90.22	3.93	8524.92	8506.32	1747.74	1748.19 N	24.41 E	1748.36@	0.80	0.10	126.32
10184.00	89.96	2.91	8524.77	8506.17	1842.72	1843.02 N	30.08 E	1843.26@	0.94	1.11	126.32
10279.00	89.34	3.40	8525.35	8506.75	1937.71	1937.87 N	35.31 E	1938.19@	1.04	0.83	129.94
10375.00	88.90	1.95	8526.82	8508.22	2033.70	2033.75 N	39.79 E	2034.14@	1.12	1.58	129.94
10470.00	89.16	1.42	8528.43	8509.83	2128.68	2128.70 N	42.58 E	2129.12@	1.15	0.62	129.94
10565.00	89.25	1.71	8529.75	8511.15	2223.66	2223.65 N	45.18 E	2224.11@	1.16	0.32	129.94
10660.00	90.92	2.92	8529.61	8511.01	2318.65	2318.57 N	49.01 E	2319.09@	1.21	2.17	126.32
10756.00	92.59	2.92	8526.67	8508.07	2414.60	2414.40 N	53.90 E	2415.00@	1.28	1.74	126.32
10852.00	92.42	4.33	8522.47	8503.87	2510.48	2510.11 N	59.97 E	2510.83@	1.37	1.48	129.94
10947.00	90.57	5.50	8519.99	8501.39	2605.34	2604.72 N	68.10 E	2605.61@	1.50	2.30	129.94
11043.00	89.25	1.95	8520.15	8501.55	2701.30	2700.50 N	74.34 E	2701.53@	1.58	3.95	129.94
11138.00	89.08	5.87	8521.53	8502.93	2796.23	2795.25 N	80.81 E	2796.42@	1.66	4.13	129.94
11233.00	89.96	6.93	8522.33	8503.73	2890.99	2889.66 N	91.40 E	2891.10@	1.81	1.45	129.94
11328.00	88.72	5.00	8523.42	8504.82	2985.78	2984.13 N	101.27 E	2985.85@	1.94	2.42	133.55

PathFinder Energy Services, Inc.

Survey Report

MARBOB ENERGY CORPORATION
STEALTH FEDERAL COM #1 ST01
LUSK; BONE SPRING
RIG: PATRIOT #6

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Subsea Depth (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)	TEMP (F)
11423.00	89.78	3.97	8524.66	8506.06	3080.70	3078.83 N	108.70 E	3080.75@	2.02	1.56	133.55
11518.00	90.48	2.77	8524.45	8505.85	3175.68	3173.66 N	114.29 E	3175.72@	2.06	1.46	133.55
11614.00	90.92	2.43	8523.28	8504.68	3271.68	3269.55 N	118.64 E	3271.71@	2.08	0.58	129.94
11709.00	89.25	1.98	8523.14	8504.54	3366.67	3364.48 N	122.30 E	3366.70@	2.08	1.82	129.94
11804.00	89.08	1.80	8524.52	8505.92	3461.66	3459.42 N	125.43 E	3461.69@	2.08	0.26	133.55
11900.00	89.25	1.39	8525.92	8507.32	3557.64	3555.37 N	128.10 E	3557.68@	2.06	0.46	133.55
11995.00	87.85	2.74	8528.32	8509.72	3652.60	3650.27 N	131.52 E	3652.64@	2.06	2.05	129.94
12091.00	89.52	2.79	8530.53	8511.93	3748.57	3746.13 N	136.15 E	3748.61@	2.08	1.74	129.94
12186.00	92.59	5.18	8528.78	8510.18	3843.50	3840.87 N	142.75 E	3843.52@	2.13	4.10	133.55
12281.00	91.54	4.06	8525.35	8506.75	3938.36	3935.50 N	150.40 E	3938.37@	2.19	1.62	133.55
12377.00	89.87	2.45	8524.17	8505.57	4034.33	4031.33 N	155.85 E	4034.34@	2.21	2.42	133.55
12472.00	89.43	1.23	8524.75	8506.15	4129.32	4126.27 N	158.90 E	4129.33@	2.21	1.37	133.55
12568.00	88.02	2.87	8526.89	8508.29	4225.29	4222.18 N	162.33 E	4225.30@	2.20	2.25	133.55
12663.00	87.93	2.63	8530.25	8511.65	4320.23	4317.01 N	166.88 E	4320.24@	2.21	0.27	133.55
12758.00	89.52	2.72	8532.36	8513.76	4415.20	4411.88 N	171.32 E	4415.21@	2.22	1.68	133.55
12854.00	91.19	3.01	8531.76	8513.16	4511.19	4507.76 N	176.12 E	4511.20@	2.24	1.77	137.17
12920.00	92.59	2.82	8529.59	8510.99	4577.15	4573.64 N	179.47 E	4577.16@	2.25	2.14	137.17
STRAIGHT LINE PROJECTION TO BIT @ 12968'MD.											
12968.00	92.59	2.82	8527.42	8508.82	4625.10	4621.53 N	181.83 E	4625.11@	2.25	0.00	0.00

PATHFINDER

ENERGY SERVICES

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	MARBOB ENERGY CORPORATION		
LEASE / WELL No.:	STEALTH FEDERAL COM	#1H - ST01	
WELL LOCATION:	LEA COUNTY, NM		
COUNTY / STATE / COUNTRY:	LEA COUNTY	NM	USA
RIG:	PATRIOT #6		
API WELL No:	30-025-39484		
JOB No:	101009611-WT-WT		
P.O. / AFE No.	N/A		
DIRECTIONAL COMPANY:	PES		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.59	LWD Calculated:	7.58
		Agreed Upon:	7.58
X =	669921.400000	Feet	Y = 602073.500000
			Feet
SITE LATITUDE:	32.653987 N	SITE LONGITUDE:	103.781240 W
GRID SYSTEM:	TRUE ☐ UTM ☒ LAMBERT ☐	ZONE:	NEW MEXICO EAST
PROPOSED DRIFT DIRECTION:	2.32		
KELLY BUSHING ELEVATION:	18.6		
ALTITUDE:	3595	Feet	WATER DEPTH: N/A
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	8000	These values calculated and provided by DD. S. Garay. Scientific Gyro Values: VS: -36.26 N/S: -36.26 E/W: -90.69
DRIFT ANGLE:	1.81	
DRIFT DIRECTION:	232.75	
TRUE VERTICAL DEPTH:	7998.21	
VERTICAL SECTION:	-39.92	
RECTANGULAR COORDINATE (N / S) :	-36.28	
RECTANGULAR COORDINATE (E / W) :	-90.64	
CLOSURE DISTANCE / DIRECTION:	97.63	248.19
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐	
SOURCE OF TIE-IN DATA (COMPANY):	Scientific Drilling	
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO	

WELL PLAN

KICKOFF DEPTH:	8112	TOTAL DEPTH:	12975.44
KICKOFF ANGLE:	11.39	MAX ANGLE:	90

PES Engineers: R. DONARUMMA *[Signature]* **Signature of both field engineers required if applicable
N. POND *[Signature]*

Directional Driller: S. GARAY / T. BODIN *[Signature]* DATE: 13-Jan-2010
[Signature]



Scientific Drilling

Gyroscopic Survey Report
for
MARBOB

Well Location	LEA COUNTY, NEW MEXICO
Well Name	STEALTH FED COM #1H
Rig Name	PATRIOT NO.6
Survey Date	1/7/2010
Latitude	32.65 deg
North Reference	True North
Grid Correction	0.00 deg
Depth Reference	RKB
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 0.00Azim (deg)
Definitive Survey	FINAL SURVEY
Operator	VICTOR MELENDEZ JR.

Comments



Survey Report

Well Name: STEALTH FED COM #1H

Survey: FINAL SURVEY

Survey Date: 1/7/2010

MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.76	160.19	100.00	-0.62	-0.62	0.22	0.76	0.66	160.19
200.00	0.38	192.10	199.99	-1.57	-1.57	0.38	0.48	1.61	166.50
300.00	0.48	197.41	299.99	-2.30	-2.30	0.18	0.10	2.30	175.49
400.00	0.57	214.76	399.99	-3.10	-3.10	-0.23	0.18	3.11	184.20
500.00	0.57	221.48	499.98	-3.89	-3.89	-0.84	0.07	3.98	192.23
600.00	0.58	214.45	599.98	-4.68	-4.68	-1.46	0.07	4.90	197.32
700.00	1.14	250.58	699.96	-5.42	-5.42	-2.68	0.76	6.05	206.32
800.00	1.50	249.36	799.94	-6.22	-6.22	-4.85	0.36	7.88	217.95
900.00	1.41	248.56	899.91	-7.13	-7.13	-7.22	0.09	10.14	225.36
1000.00	0.85	245.04	999.89	-7.89	-7.89	-9.04	0.56	12.00	228.87
1100.00	0.56	238.17	1099.88	-8.46	-8.46	-10.13	0.31	13.20	230.11
1200.00	0.52	250.82	1199.87	-8.87	-8.87	-10.97	0.13	14.11	231.04
1300.00	0.17	241.52	1299.87	-9.09	-9.09	-11.53	0.36	14.68	231.74
1400.00	0.03	299.11	1399.87	-9.14	-9.14	-11.68	0.15	14.83	231.94
1500.00	0.04	274.57	1499.87	-9.13	-9.13	-11.74	0.02	14.87	232.15
1600.00	0.12	51.16	1599.87	-9.06	-9.06	-11.70	0.15	14.80	232.25
1700.00	0.57	45.25	1699.87	-8.64	-8.64	-11.26	0.46	14.20	232.50
1800.00	1.24	49.70	1799.86	-7.59	-7.59	-10.08	0.67	12.62	233.03
1900.00	1.70	52.88	1899.82	-5.99	-5.99	-8.07	0.47	10.05	233.41
2000.00	1.71	43.10	1999.78	-4.01	-4.01	-5.87	0.29	7.10	235.67
2100.00	1.73	42.33	2099.73	-1.80	-1.80	-3.83	0.03	4.23	244.82
2200.00	1.65	47.25	2199.69	0.29	0.29	-1.76	0.17	1.78	279.35
2300.00	1.66	41.56	2299.65	2.35	2.35	0.25	0.16	2.36	6.18
2400.00	1.58	50.00	2399.61	4.31	4.31	2.27	0.25	4.87	27.74
2500.00	1.15	40.16	2499.58	5.96	5.96	3.97	0.49	7.17	33.65
2600.00	0.42	81.34	2599.57	6.78	6.78	4.98	0.88	8.41	36.25
2700.00	0.46	181.20	2699.57	6.44	6.44	5.33	0.67	8.35	39.61
2800.00	0.73	171.93	2799.56	5.40	5.40	5.41	0.28	7.64	45.02
2900.00	0.98	177.47	2899.55	3.92	3.92	5.53	0.26	6.78	54.68
3000.00	1.12	191.62	2999.54	2.11	2.11	5.37	0.30	5.77	68.58
3100.00	1.07	212.03	3099.52	0.36	0.36	4.68	0.39	4.70	85.60
3200.00	1.08	221.21	3199.50	-1.14	-1.14	3.57	0.17	3.74	107.73
3300.00	1.09	229.79	3299.48	-2.47	-2.47	2.22	0.16	3.32	138.02
3400.00	1.31	235.86	3399.46	-3.72	-3.72	0.55	0.25	3.76	171.60
3500.00	1.18	228.39	3499.44	-5.04	-5.04	-1.16	0.21	5.17	192.99
3600.00	1.50	238.02	3599.41	-6.42	-6.42	-3.04	0.39	7.10	205.36
3700.00	1.71	240.28	3699.37	-7.85	-7.85	-5.45	0.22	9.56	214.77
3800.00	1.70	241.70	3799.33	-9.29	-9.29	-8.05	0.04	12.30	220.91



Well Name: STEALTH FED COM #1H

Survey: FINAL SURVEY

Survey Date: 1/7/2010

MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg
3900.00	1.64	242.82	3899.28	-10.65	-10.65	-10.63	0.07	15.04	224.94
4000.00	1.71	234.25	3999.24	-12.17	-12.17	-13.10	0.26	17.88	227.12
4100.00	1.83	232.69	4099.19	-14.01	-14.01	-15.58	0.13	20.95	228.05
4200.00	1.98	233.56	4199.14	-16.00	-16.00	-18.24	0.16	24.26	228.74
4300.00	1.98	233.81	4299.08	-18.04	-18.04	-21.02	0.01	27.71	229.36
4400.00	1.97	232.66	4399.02	-20.11	-20.11	-23.79	0.04	31.15	229.79
4500.00	2.03	240.27	4498.96	-22.03	-22.03	-26.69	0.27	34.61	230.47
4600.00	2.00	239.09	4598.90	-23.81	-23.81	-29.73	0.05	38.09	231.31
4700.00	2.03	244.68	4698.84	-25.46	-25.46	-32.83	0.20	41.55	232.20
4800.00	1.99	241.77	4798.77	-27.04	-27.04	-35.96	0.11	44.99	233.06
4900.00	1.68	241.21	4898.72	-28.56	-28.56	-38.77	0.31	48.16	233.62
5000.00	1.46	242.27	4998.69	-29.86	-29.86	-41.18	0.23	50.87	234.05
5100.00	1.36	239.46	5098.65	-31.06	-31.06	-43.33	0.12	53.31	234.37
5200.00	1.25	234.24	5198.63	-32.30	-32.30	-45.24	0.16	55.59	234.47
5300.00	0.87	249.84	5298.61	-33.20	-33.20	-46.84	0.48	57.41	234.67
5400.00	0.85	258.25	5398.60	-33.61	-33.61	-48.27	0.13	58.82	235.15
5500.00	0.72	263.86	5498.59	-33.83	-33.83	-49.61	0.15	60.05	235.71
5600.00	0.61	269.41	5598.58	-33.90	-33.90	-50.77	0.13	61.05	236.27
5700.00	0.67	266.95	5698.58	-33.94	-33.94	-51.89	0.07	62.00	236.81
5800.00	0.91	267.65	5798.57	-34.00	-34.00	-53.27	0.24	63.20	237.45
5900.00	0.90	274.22	5898.56	-33.98	-33.98	-54.85	0.10	64.52	238.23
6000.00	0.82	260.54	5998.54	-34.04	-34.04	-56.35	0.22	65.83	238.87
6100.00	0.92	259.40	6098.53	-34.30	-34.30	-57.85	0.10	67.25	239.33
6200.00	1.02	266.48	6198.52	-34.50	-34.50	-59.52	0.15	68.80	239.90
6300.00	0.95	260.66	6298.50	-34.69	-34.69	-61.23	0.12	70.37	240.46
6400.00	0.93	274.87	6398.49	-34.76	-34.76	-62.86	0.23	71.83	241.06
6500.00	0.85	267.63	6498.48	-34.72	-34.72	-64.41	0.14	73.17	241.67
6600.00	0.94	277.67	6598.47	-34.64	-34.64	-65.96	0.19	74.51	242.29
6700.00	0.87	259.25	6698.45	-34.67	-34.67	-67.53	0.30	75.91	242.82
6800.00	0.93	259.17	6798.44	-34.97	-34.97	-69.07	0.05	77.42	243.15
6900.00	0.98	280.81	6898.43	-34.96	-34.96	-70.71	0.36	78.88	243.69
7000.00	1.05	297.72	6998.41	-34.37	-34.37	-72.37	0.31	80.11	244.60
7100.00	0.85	284.57	7098.40	-33.76	-33.76	-73.90	0.30	81.24	245.45
7200.00	0.79	269.32	7198.39	-33.58	-33.58	-75.31	0.22	82.45	245.97
7300.00	0.77	255.84	7298.38	-33.75	-33.75	-76.65	0.18	83.75	246.24
7400.00	0.72	266.20	7398.37	-33.96	-33.96	-77.94	0.14	85.01	246.46
7500.00	0.76	274.25	7498.36	-33.95	-33.95	-79.23	0.11	86.20	246.80
7600.00	1.15	278.26	7598.35	-33.76	-33.76	-80.88	0.39	87.64	247.35



Scientific Drilling

Survey Report

*These Values provided by

D.D. S. Guray

Well Name:		STEALTH FED COM #1H								
Survey:		FINAL SURVEY								
Survey Date:		1/7/2010								
MD	Inc	Azim	TVD	VS	Northing	Easting	DLS	Closure	Distance	Closure Angle
ft	deg	deg	ft	ft	ft	ft	deg/100ft		ft	deg
7700.00	1.38	260.10	7698.32	-33.82	-33.82	-83.05	0.46		89.67	247.84
7800.00	1.52	271.63	7798.29	-33.99	-33.99	-85.56	0.33		92.07	248.34
7900.00	1.65	241.85	7898.26	-34.63	-34.63	-88.16	0.82		94.72	248.55
8000.00	1.81	232.75	7998.21	-40.01	-36.28	-90.64*	0.32		97.67	248.20
8100.00	1.56	211.49	8098.17	-38.38	-38.38	-92.65	0.67		100.29	247.50
8200.00	1.76	201.53	8198.13	-40.97	-40.97	-93.93	0.35		102.47	246.43
8300.00	1.50	207.06	8298.09	-43.56	-43.56	-95.08	0.30		104.59	245.39
8400.00	1.48	198.06	8398.05	-45.95	-45.95	-96.08	0.23		106.50	244.44
8500.00	1.42	194.91	8498.02	-48.38	-48.38	-96.80	0.10		108.22	243.44
8600.00	1.50	191.66	8597.99	-50.86	-50.86	-97.38	0.11		109.86	242.42
8700.00	1.28	207.49	8697.96	-53.13	-53.13	-98.16	0.44		111.62	241.58
8800.00	1.29	213.03	8797.93	-55.06	-55.06	-99.29	0.12		113.54	240.99
8900.00	1.17	231.56	8897.91	-56.64	-56.64	-100.70	0.41		115.54	240.64
9000.00	1.37	244.86	8997.89	-57.78	-57.78	-102.58	0.36		117.74	240.61
9100.00	1.53	244.20	9097.86	-58.87	-58.87	-104.87	0.16		120.26	240.69
9200.00	1.38	249.96	9197.82	-59.86	-59.86	-107.20	0.21		122.78	240.82
9300.00	1.39	245.50	9297.79	-60.78	-60.78	-109.43	0.11		125.17	240.95
9400.00	1.39	246.94	9397.76	-61.75	-61.75	-111.65	0.04		127.59	241.05
9500.00	1.05	206.38	9497.74	-63.06	-63.06	-113.18	0.91		129.56	240.88
9600.00	1.06	220.43	9597.73	-64.58	-64.58	-114.18	0.26		131.18	240.51
9700.00	1.33	231.74	9697.70	-66.01	-66.01	-115.70	0.36		133.20	240.29
9800.00	1.74	246.78	9797.67	-67.33	-67.33	-118.01	0.57		135.86	240.29
9900.00	2.18	243.12	9897.61	-68.79	-68.79	-121.10	0.46		139.27	240.40
10000.00	2.47	237.52	9997.53	-70.80	-70.80	-124.61	0.36		143.32	240.40
10100.00	2.22	245.57	10097.44	-72.76	-72.76	-128.19	0.41		147.40	240.42
10133.00	1.88	243.00	10130.42	-73.27	-73.27	-129.25	1.08		148.58	240.45

8009

8112

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

OFFICE CALCULATED

MARBOB ENERGY
STEALTH FEDERAL COM #1
LEA COUNTY, NEW MEXICO
Rig: PATRIOT 6

Thu Jan 07 09:13:47 2010

Coordinates

Latitude: 32.653987 N (32 deg. 39 min. 14.3541 sec.)
Longitude: 103.781239 W (-103 deg. 46 min. 52.4621 sec.)
Elevation: 3609.00 feet. WELL PLAT SHOWS 3595'
Calculation Date: Dec/31/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6036 degrees
Total Magnetic Field: 0.49027 gauss
Magnetic Declination: 7.877934 degrees
Horizontal Intensity: 0.240651 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.877934 Degs

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 669921.4000 feet
Y: 602073.5000 feet
True to Grid: (convergence) -0.297897 degrees
Magnetic to Grid: 7.580037 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.580037 Degs.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

ORIGINAL WELL.
by N. POND.

Marbob
Stealth Federal Com #1H
Lea County, NM

Sun Jan 10 10:24:38 2010

Coordinates

Latitude: 32.653987 N (32 deg. 39 min. 14.3532 sec.)
Longitude: 103.781240 W (-103 deg. 46 min. 52.4640 sec.)
Elevation: 3595.00 feet.
Calculation Date: Dec/31/2009

Magnetic Calculations

Model: IGRF2005
Dip Angle: 60.6036 degrees
Total Magnetic Field: 0.49028 gauss
Magnetic Declination: 7.877941 degrees
Horizontal Intensity: 0.240651 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.877941 Degs

Transverse Mercator Grid Calculations NAD27

Grid System: Transverse Mercator: new mexico east
Ellipsoid: Clarke 1866
X: 669921.2421 feet
Y: 602073.4076 feet
True to Grid: (convergence) -0.297897 degrees
Magnetic to Grid: 7.580044 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 7.580044 Degs.

* using Tie In for STD1
Same as Original Well

PATHFINDER ENERGY SERVICES

ORIGINAL WELL

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	MarBob Energy		
LEASE / WELL No.:	Stealth Federal Corn	#1H	
WELL LOCATION:	Lea Co, NM		
COUNTY / STATE / COUNTRY:	Lea County	NM	USA
RIG:	Patriot #6		
API WELL No:	30-025-39484		
JOB No:	101009611-WT-WT		
P.O. / AFE No.			
DIRECTIONAL COMPANY:	Pathfinder Energy Services		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.59	LWD Calculated:	7.58
		Agreed Upon:	7.58
X =	669921.400000	Feet	Y = 602073.500000
			Feet
SITE LATITUDE:	32.653987 N	SITE LONGITUDE:	103.781240 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	New Mexico East
PROPOSED DRIFT DIRECTION:	2.32		
KELLY BUSHING ELEVATION:	18.6		
ALTITUDE:	3595	Feet	WATER DEPTH: N/A
			Feet

TIE-IN SURVEY

MEASURED DEPTH:	8000	
DRIFT ANGLE:	1.81	
DRIFT DIRECTION:	232.75	
TRUE VERTICAL DEPTH:	7998.21	
VERTICAL SECTION:	-40.01	
RECTANGULAR COORDINATE (N / S) :	-36.28	
RECTANGULAR COORDINATE (E / W) :	-90.64	
CLOSURE DISTANCE / DIRECTION:	97.67	248.20
SURVEY CALCULATION METHOD:	AA ☐ MC ☒ RC ☐ BT ☐	
SOURCE OF TIE-IN DATA (COMPANY):	Scientific Drilling	
COPY OF TIE-IN SURVEY REPORT	☒ YES	☐ NO

WELL PLAN

KICKOFF DEPTH:	8040	TOTAL DEPTH:	12991
KICKOFF ANGLE:	0	MAX ANGLE:	90

PES Engineers:

[Signature]

**Signature of both field engineers required if applicable

Directional Driller:

[Signature]

DATE: 1/10/10