

PATRIOT DRILLING, LLC

30-015-39387

OPERATOR: COG Operating, LLC
WELL/LEASE: Birdseye 32 State # 4-H
COUNTY: Eddy Co., New Mexico
Sec. 32, T19S, R31E

**STATE OF NEW MEXICO
DEVIATION REPORT**

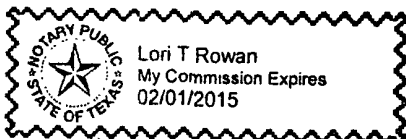
<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
405	1 1/4	2,985	1 3/4
572	2 3/4	3,042	3 1/2
651	3	3,115	2 3/4
782	2 1/2	3,210	2
835	2 3/4	3,305	1 1/2
926	2 1/2	3,401	1 1/4
1,023	2 1/4	3,559	1 1/4
1,214	2	3,718	2
1,320	1 1/4	4,264	1/2
1,484	1 3/4	4,346	3/4
1,572	1	4,800	3/4
1,667	1	5,141	1/2
1,750	2 1/4	5,506	3/4
1,873	1 1/2	5,668	1
2,000	3/4	6,010	1
2,135	1/2	6,386	1
2,251	1/2	6,664	3/4
2,389	1/2	7,090	1 1/2
2,890	2 1/2	7,559	1 1/2

Patriot Drilling, LLC

M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 25th day of October, 2011 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 02/01/2015



Lori T. Rowan
Notary Public for Ector Co., Texas

30-015-39387

COG OPERATING

Gatuna Canyon
Eddy County, NM
Birdseye 32 State #4H
VH - Job #32K1011993

Survey: Actual

SDI Standard Survey Report

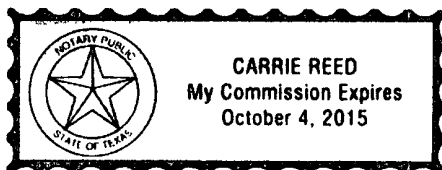
This survey is correct to the best of my knowledge and is supported by actual field data.

Runar

Notarized this date 15th of November, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	COG OPERATING	Local Co-ordinate Reference:	Well Birdseye 32 State #4H
Project:	Gatuna Canyon	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Birdseye 32 State #4H	North Reference:	Grid
Wellbore:	VH - Job #32K1011993	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011993	Database:	EDM-Regulatory

Project	Gatuna Canyon		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site		Eddy County, NM			
Site Position:		Northing:	590,631 31 usft	Latitude:	32° 37' 22 980 N
From:	Lat/Long	Easting:	629,005 79 usft	Longitude:	103° 54' 51 559 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 23 °

Well	Birdseye 32 State #4H, Directional (Pathfinder)					
Well Position	+N/-S	0 0 usft	Northing:	585,903 96 usft	Latitude:	32° 36' 36 000 N
	+E/-W	0 0 usft	Easting:	634,050 52 usft	Longitude:	103° 53' 52 800 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore	VH - Job #32K1011993				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/15/2011	7 73	60 48	48,805

Design		VH - Job #32K1011993		
Audit Notes:				
Version:	1 0	Phase:	ACTUAL	Tie On Depth: 0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 0	0 0	0 0	0 20

Survey Program	Date 11/14/2011				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100 0	7,900 0	Actual (VH - Job #32K1011993)	Keeper	Keeper Gyro	

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 45	278 32	100 0	0 1	-0 4	278 32	0 4
200 0	0 90	282 54	200 0	0 3	-1 5	280 43	1 6
300 0	1 30	295 87	300 0	0 9	-3 3	285 91	3 5
400 0	1 81	294 41	399 9	2 1	-5 8	289 91	6 2
500 0	2 53	292 55	499 9	3 6	-9 3	291 21	9 9
600 0	2 63	294 19	599 8	5 4	-13 4	291 89	14 4
700 0	2 68	292 42	699 7	7 2	-17 7	292 23	19 1
800 0	2 65	292 83	799 5	9 0	-21 9	292 31	23 7
900 0	2 35	294 71	899 5	10 8	-25 9	292 53	28 1
1,000 0	2 18	296 48	999 4	12 5	-29 5	292 90	32 0
1,100 0	2 16	297 48	1,099 3	14 2	-32 9	293 33	35 8

Scientific Drilling International, Inc.
SDI Standard Survey Report



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Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Birdseye 32 State #4H	North Reference:	Grid
Wellbore:	VH - Job #32K1011993	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011993	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200 0	1 97	300 91	1,199 2	15 9	-36 0	293 86	39 4
1,300 0	1 73	306 78	1,299 2	17 7	-38 7	294 60	42 6
1,400 0	1 77	320 25	1,399 1	19 8	-40 9	295 84	45 4
1,500 0	1 91	333 75	1,499 1	22 5	-42 6	297 82	48 2
1,600 0	1 86	337 34	1,599 0	25 5	-44 0	300 09	50 8
1,700 0	1 94	342 45	1,699 0	28 6	-45 1	302 36	53 4
1,800 0	1 72	342 98	1,798 9	31 6	-46 1	304 48	55 9
1,900 0	1 21	347 68	1,898 9	34 1	-46 7	306 12	57 9
2,000 0	0 85	337 75	1,998 9	35 8	-47 2	307 18	59 3
2,100 0	0 67	325 41	2,098 9	37 0	-47 9	307 71	60 5
2,200 0	0 61	300 58	2,198 9	37 7	-48 6	307 81	61 6
2,300 0	0 55	284 45	2,298 9	38 1	-49 6	307 57	62 5
2,400 0	0 62	272 33	2,398 9	38 3	-50 6	307 12	63 4
2,500 0	0 71	272 84	2,498 8	38 3	-51 7	306 54	64 4
2,600 0	1 32	274 53	2,598 8	38 5	-53 5	305 71	65 9
2,700 0	1 55	278 67	2,698 8	38 8	-56 0	304 69	68 1
2,800 0	1 87	287 65	2,798 8	39 4	-58 9	303 82	70 9
2,900 0	2 65	293 72	2,898 7	40 9	-62 6	303 16	74 7
3,000 0	3 19	295 77	2,998 5	43 0	-67 2	302 63	79 8
3,100 0	2 74	300 07	3,098 4	45 4	-71 7	302 34	84 9
3,200 0	1 89	307 36	3,198 3	47 6	-75 1	302 37	88 9
3,300 0	1 39	307 36	3,298 3	49 4	-77 4	302 52	91 8
3,400 0	1 11	277 78	3,398 3	50 2	-79 3	302 34	93 9
3,500 0	1 07	261 27	3,498 2	50 2	-81 2	301 73	95 5
3,600 0	0 98	259 69	3,598 2	49 9	-83 0	301 03	96 8
3,700 0	0 94	254 46	3,698 2	49 5	-84 6	300 35	98 0
3,800 0	0 94	250 00	3,798 2	49 0	-86 2	299 65	99 1
3,900 0	0 71	254 37	3,898 2	48 6	-87 5	299 04	100 1
4,000 0	0 62	239 58	3,998 2	48 2	-88 6	298 53	100 8
4,100 0	0 55	278 39	4,098 2	48 0	-89 5	298 17	101 6
4,200 0	0 51	266 38	4,198 2	48 0	-90 5	297 95	102 4
4,300 0	0 49	296 07	4,298 2	48 2	-91 3	297 81	103 2
4,400 0	0 36	342 67	4,398 2	48 6	-91 8	297 93	103 9
4,500 0	0 52	329 09	4,498 2	49 3	-92 1	298 18	104 5
4,600 0	0 37	334 42	4,598 2	50 0	-92 5	298 41	105 1
4,700 0	0 46	348 60	4,698 2	50 7	-92 7	298 68	105 6
4,800 0	0 39	356 69	4,798 2	51 4	-92 8	299 00	106 1
4,900 0	0 51	346 74	4,898 2	52 2	-92 9	299 33	106 6
5,000 0	0 47	357 15	4,998 2	53 0	-93 0	299 69	107 1
5,100 0	0 43	11 98	5,098 2	53 8	-93 0	300 07	107 4
5,200 0	0 45	356 51	5,198 1	54 6	-92 9	300 43	107 8
5,300 0	0 35	322 35	5,298 1	55 2	-93 1	300 67	108 3
5,400 0	0 33	8 28	5,398 1	55 7	-93 3	300 87	108 7
5,500 0	0 38	348 77	5,498 1	56 4	-93 3	301 13	109 0

Scientific Drilling International, Inc.
SDI Standard Survey Report



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Project:	Gatuna Canyon	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Birdseye 32 State #4H	North Reference:	Grid
Wellbore:	VH - Job #32K1011993	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011993	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600 0	0 50	352 53	5,598 1	57 1	-93 4	301 44	109 5
5,700 0	0 37	342 04	5,698 1	57 9	-93 6	301 73	110 0
5,800 0	0 35	335 01	5,798 1	58 4	-93 8	301 92	110 5
5,900 0	0 30	301 69	5,898 1	58 8	-94 1	302 01	111 0
6,000 0	0 50	330 65	5,998 1	59 4	-94 6	302 11	111 7
6,100 0	0 46	13 05	6,098 1	60 1	-94 7	302 41	112 2
6,200 0	0 50	15 86	6,198 1	60 9	-94 5	302 82	112 4
6,300 0	0 64	16 23	6,298 1	61 9	-94 2	303 30	112 7
6,400 0	0 61	15 58	6,398 1	63 0	-93 9	303 83	113 1
6,500 0	0 58	32 27	6,498 1	63 9	-93 5	304 34	113 3
6,600 0	0 57	38 32	6,598 1	64 7	-92 9	304 85	113 2
6,700 0	0 53	37 19	6,698 1	65 5	-92 3	305 34	113 2
6,800 0	0 49	44 91	6,798 1	66 1	-91 8	305 78	113 1
6,900 0	0 24	27 36	6,898 1	66 6	-91 4	306 10	113 1
7,000 0	0 60	308 39	6,998 1	67 1	-91 7	306 22	113 6
7,100 0	0 94	285 90	7,098 1	67 7	-92 9	306 09	114 9
7,200 0	0 90	280 79	7,198 1	68 1	-94 4	305 78	116 4
7,300 0	0 72	238 36	7,298 1	67 9	-95 7	305 34	117 4
7,400 0	0 96	224 57	7,398 0	67 0	-96 9	304 65	117 8
7,500 0	0 81	248 63	7,498 0	66 1	-98 1	303 97	118 3
7,600 0	1 10	258 73	7,598 0	65 7	-99 7	303 36	119 4
7,700 0	1 08	264 28	7,698 0	65 4	-101 6	302 76	120 8
7,800 0	0 82	268 69	7,798 0	65 3	-103 2	302 30	122 1
7,900 0	1 08	234 45	7,898 0	64 7	-104 7	301 71	123 1



Project: Gatuna Canyon
Eddy County, NM
Well: Birdseye 32 State #4H
Wellbore: VH - Job #32K1011993
Design: VH - Job #32K1011993



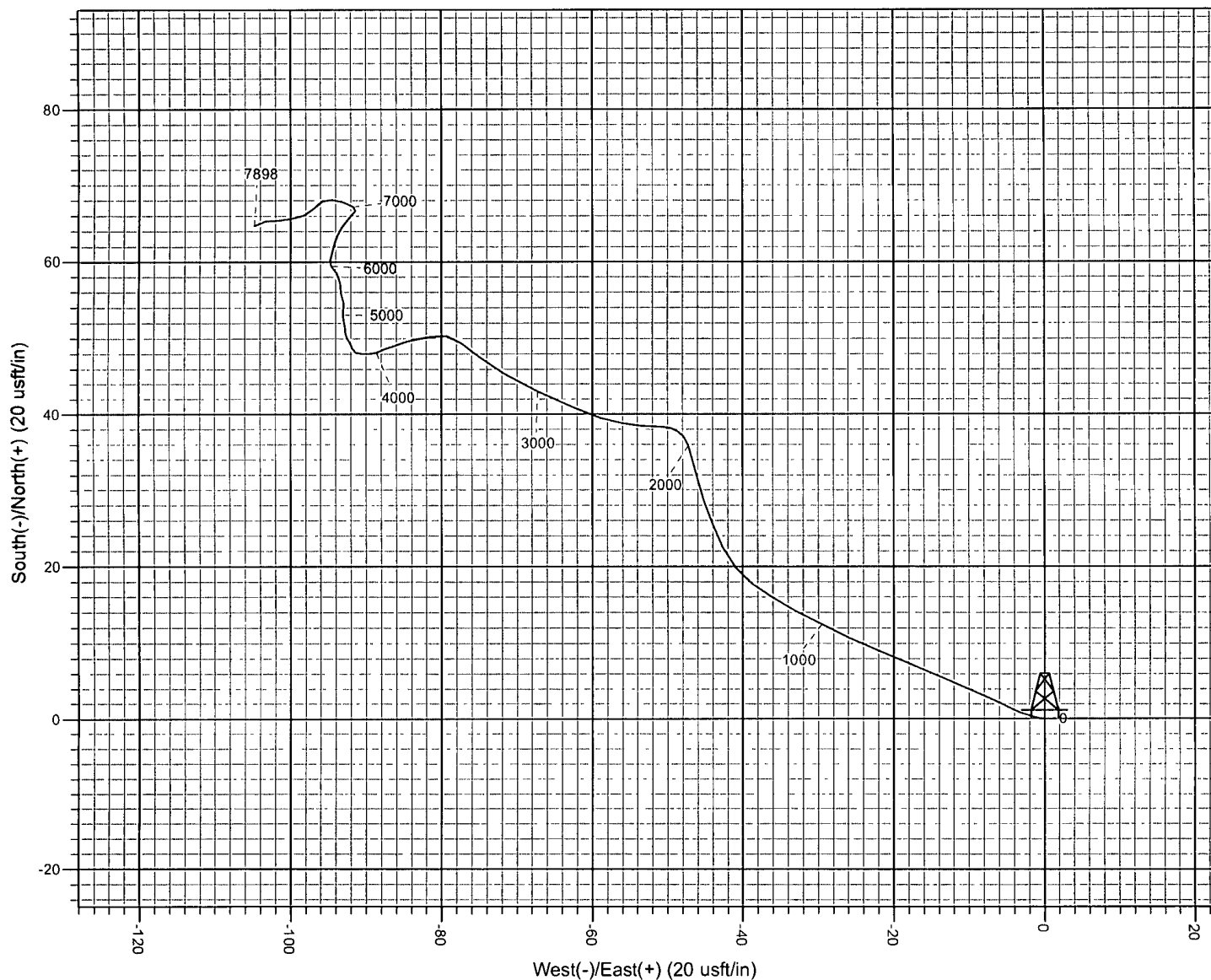
Azimuths to Grid North
True North -0.23°
Magnetic North 7.49°

Magnetic Field
Strength 48805.4nT
Dip Angle 60.48°
Date 10/15/2011
Model IGRF2010

WELL DETAILS: Birdseye 32 State #4H
WELL @ 0.0usft (Original Well Elev)

Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	585903.96	634050.52	32° 36' 36.000 N	103° 53' 52.800 W	



PROJECT DETAILS: Gatuna Canyon
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 32° 37' 22.980 N
Longitude: 103° 54' 51.559 W
Positional Uncertainty: 0.0
Convergence: 0.23
Local North: Grid

PathFinder Energy Services, Inc.

Survey Report

COG OPERATING, LLC.
 BIRDSEYE 32 STATE #4H
 EDDY COUNTY, NEW MEXICO
 Rig: PATRIOT # 6
 PathFinder Office Supervisor: STEVE BIBB
 PathFinder Field Engineers: P.DAS
 G.OBIOHA

Survey Horiz. Reference: WELLHEAD
 Ref Coordinates: LAT: 32.36.37.8292 N LON: 103.53.55.6588 W
 GRID Reference: NAD83 new mexico east Transverse Mercator
 Ref GRID Coord: X: 675139.8300 Y: 586107.0700
 North Aligned To: GRID NORTH
 Total Magnetic Correction: 7.49° EAST TO GRID
 Vertical Section Plane: 0.20
 Survey Vert. Reference: 17.50' Kelly Bushing To Ground
 Altitude: 3440.30' Ground To MSL

Survey Calculations by RX5 V6.03E using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
TIED INTO SCIENTIFIC DRILLING GYRO SURVEY @ 7900' MD.										
7900.00	1.08	234.45	7897.98	0.00	64.31	64.68 N	104.71 W	123.08@	301.70	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8180.00	1.06	200.94	8177.93	280.00	60.35	60.73 N	107.78 W	123.71@	299.40	0.22
8325.00	0.62	183.10	8322.92	145.00	58.31	58.69 N	108.30 W	123.18@	298.45	0.35
8387.00	0.88	162.62	8384.91	62.00	57.52	57.90 N	108.18 W	122.70@	298.16	0.60
8419.00	0.79	56.53	8416.91	32.00	57.41	57.79 N	107.92 W	122.42@	298.17	4.17
8451.00	1.85	49.50	8448.90	32.00	57.87	58.25 N	107.35 W	122.13@	298.48	3.34
8483.00	2.20	50.73	8480.88	32.00	58.60	58.97 N	106.48 W	121.72@	298.98	1.10
8515.00	3.17	26.83	8512.85	32.00	59.78	60.15 N	105.60 W	121.53@	299.66	4.57
8547.00	5.36	3.71	8544.76	32.00	62.06	62.43 N	105.11 W	122.25@	300.71	8.57
8578.00	8.71	1.25	8575.52	31.00	65.86	66.22 N	104.96 W	124.11@	302.25	10.85
8610.00	11.43	6.00	8607.03	32.00	71.43	71.80 N	104.58 W	126.85@	304.47	8.88
8642.00	14.25	10.57	8638.22	32.00	78.46	78.83 N	103.52 W	130.12@	307.29	9.36
8674.00	17.15	12.85	8669.03	32.00	86.94	87.30 N	101.75 W	134.07@	310.63	9.26
8706.00	20.14	14.96	8699.34	32.00	96.88	97.22 N	99.28 W	138.96@	314.40	9.58
8738.00	23.04	16.98	8729.10	32.00	108.20	108.54 N	96.03 W	144.92@	318.50	9.35
8769.00	27.70	16.89	8757.10	31.00	120.92	121.24 N	92.16 W	152.29@	322.76	15.03
8801.00	33.24	17.33	8784.67	32.00	136.44	136.74 N	87.38 W	162.28@	327.42	17.33
8833.00	38.95	16.54	8810.52	32.00	154.48	154.77 N	81.90 W	175.11@	332.11	17.90
8865.00	45.29	17.25	8834.24	32.00	175.03	175.29 N	75.66 W	190.93@	336.65	19.87
8897.00	52.23	17.33	8855.32	32.00	198.01	198.25 N	68.51 W	209.76@	340.94	21.69
8932.00	59.18	17.95	8875.03	35.00	225.58	225.79 N	59.75 W	233.56@	345.18	19.91
8964.00	63.66	17.95	8890.33	32.00	252.34	252.52 N	51.09 W	257.63@	348.56	14.00
8996.00	67.53	17.69	8903.55	32.00	280.11	280.25 N	42.18 W	283.41@	351.44	12.12
9027.00	71.75	17.77	8914.34	31.00	307.81	307.93 N	33.33 W	309.73@	353.82	13.61

PathFinder Energy Services, Inc.

Survey Report

COG OPERATING, LLC.
BIRDSEYE 32 STATE #4H
EDDY COUNTY, NEW MEXICO
RIG: PATRIOT # 6

Page 02/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
9059.00	74.92	18.12	8923.51	32.00	337.01	337.09 N	23.88 W	337.94@	355.95	9.96
9091.00	76.24	17.86	8931.48	32.00	366.52	366.57 N	14.31 W	366.85@	357.76	4.20
9123.00	77.65	17.07	8938.71	32.00	396.28	396.30 N	4.96 W	396.33@	359.28	5.02
9155.00	79.58	16.98	8945.03	32.00	426.31	426.30 N	4.23 E	426.32@	0.57	6.04
9186.00	81.95	16.81	8950.00	31.00	455.62	455.57 N	13.12 E	455.76@	1.65	7.66
9218.00	84.24	15.93	8953.85	32.00	486.13	486.05 N	22.07 E	486.55@	2.60	7.66
9250.00	86.26	15.66	8956.50	32.00	516.84	516.73 N	30.75 E	517.65@	3.41	6.37
9313.00	87.93	14.61	8959.69	63.00	577.63	577.47 N	47.18 E	579.39@	4.67	3.13
9377.00	87.93	13.47	8962.00	64.00	639.73	639.52 N	62.69 E	642.58@	5.60	1.78
9439.00	88.72	11.97	8963.81	62.00	700.23	699.97 N	76.34 E	704.12@	6.22	2.73
9501.00	88.72	12.15	8965.20	62.00	760.89	760.58 N	89.29 E	765.81@	6.70	0.29
9597.00	89.08	9.51	8967.04	96.00	855.22	854.85 N	107.32 E	861.56@	7.16	2.77
9692.00	89.60	6.79	8968.14	95.00	949.29	948.87 N	120.79 E	956.53@	7.25	2.91
9787.00	89.69	4.06	8968.73	95.00	1043.88	1043.44 N	129.77 E	1051.47@	7.09	2.87
9883.00	91.45	1.34	8967.77	96.00	1139.77	1139.31 N	134.29 E	1147.20@	6.72	3.37
9979.00	91.28	2.04	8965.48	96.00	1235.71	1235.24 N	137.12 E	1242.83@	6.33	0.75
10074.00	90.92	3.01	8963.66	95.00	1330.62	1330.13 N	141.30 E	1337.62@	6.06	1.09
10169.00	90.66	359.84	8962.35	95.00	1425.57	1425.08 N	143.67 E	1432.30@	5.76	3.35
10264.00	90.75	0.37	8961.18	95.00	1520.57	1520.07 N	143.84 E	1526.86@	5.41	0.57
10359.00	90.75	0.02	8959.94	95.00	1615.56	1615.06 N	144.16 E	1621.48@	5.10	0.37
10455.00	89.08	359.58	8960.08	96.00	1711.55	1711.06 N	143.83 E	1717.09@	4.80	1.80
10550.00	88.37	359.67	8962.19	95.00	1806.52	1806.03 N	143.21 E	1811.70@	4.53	0.75
10646.00	90.48	359.67	8963.16	96.00	1902.51	1902.02 N	142.65 E	1907.36@	4.29	2.20
10740.00	90.66	0.46	8962.22	94.00	1996.50	1996.02 N	142.76 E	2001.11@	4.09	0.86
10836.00	90.40	359.58	8961.33	96.00	2092.50	2092.01 N	142.79 E	2096.88@	3.90	0.96
10931.00	89.60	359.49	8961.33	95.00	2187.49	2187.01 N	142.02 E	2191.61@	3.72	0.85
11026.00	91.80	358.17	8960.17	95.00	2282.45	2281.97 N	140.08 E	2286.27@	3.51	2.70
11122.00	92.86	358.17	8956.27	96.00	2378.31	2377.84 N	137.02 E	2381.79@	3.30	1.10

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Survey Report

COG OPERATING, LLC.
BIRDSEYE 32 STATE #4H
EDDY COUNTY, NEW MEXICO
RIG-PATRIOT # 6

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS
						Rectangular (ft)	Offsets (ft)	Dist (ft)	Dir (deg)	
11217.00	92.42	358.26	8951.90	95.00	2473.15	2472.70 N	134.07 E	2476.33@	3.10	0.47
11312.00	90.57	358.26	8949.42	95.00	2568.06	2567.61 N	131.18 E	2570.96@	2.92	1.95
11407.00	91.80	358.26	8947.45	95.00	2662.98	2662.55 N	128.30 E	2665.64@	2.76	1.29
11503.00	91.45	357.73	8944.73	96.00	2758.87	2758.45 N	124.94 E	2761.28@	2.59	0.66
11598.00	89.96	358.17	8943.56	95.00	2853.79	2853.38 N	121.54 E	2855.97@	2.44	1.63
11693.00	91.19	358.26	8942.61	95.00	2948.72	2948.33 N	118.58 E	2950.71@	2.30	1.30
11788.00	89.16	357.91	8942.32	95.00	3043.65	3043.27 N	115.41 E	3045.46@	2.17	2.17
11883.00	89.87	357.73	8943.12	95.00	3138.57	3138.20 N	111.80 E	3140.19@	2.04	0.77
11978.00	90.84	358.17	8942.53	95.00	3233.49	3233.13 N	108.40 E	3234.95@	1.92	1.12
12073.00	89.87	357.82	8941.94	95.00	3328.42	3328.07 N	105.07 E	3329.73@	1.81	1.09
12169.00	90.92	357.82	8941.28	96.00	3424.33	3424.00 N	101.42 E	3425.50@	1.70	1.09
12264.00	90.13	358.09	8940.41	95.00	3519.25	3518.93 N	98.03 E	3520.30@	1.60	0.88
12360.00	91.28	357.82	8939.23	96.00	3615.17	3614.86 N	94.61 E	3616.10@	1.50	1.23
12455.00	89.52	357.91	8938.57	95.00	3710.09	3709.79 N	91.07 E	3710.91@	1.41	1.85
12550.00	90.04	358.44	8938.93	95.00	3805.02	3804.74 N	88.04 E	3805.76@	1.33	0.78
12645.00	88.90	358.88	8939.81	95.00	3899.98	3899.71 N	85.82 E	3900.65@	1.26	1.29
12740.00	89.87	359.05	8940.83	95.00	3994.96	3994.69 N	84.11 E	3995.57@	1.21	1.04
12835.00	91.28	359.67	8939.88	95.00	4089.94	4089.67 N	83.04 E	4090.52@	1.16	1.62
12929.00	90.04	0.20	8938.79	94.00	4183.93	4183.66 N	82.94 E	4184.49@	1.14	1.43
13024.00	88.99	0.55	8939.60	95.00	4278.92	4278.66 N	83.56 E	4279.47@	1.12	1.16
13119.00	90.04	0.81	8940.40	95.00	4373.91	4373.65 N	84.69 E	4374.47@	1.11	1.14
13214.00	91.80	1.25	8938.88	95.00	4468.89	4468.61 N	86.39 E	4469.45@	1.11	1.91
STRAIGHT-LINE PROJECTION TO BIT @ 13351' MD.										
13351.00	91.80	1.25	8934.57	137.00	4605.80	4605.51 N	89.38 E	4606.38@	1.11	0.00