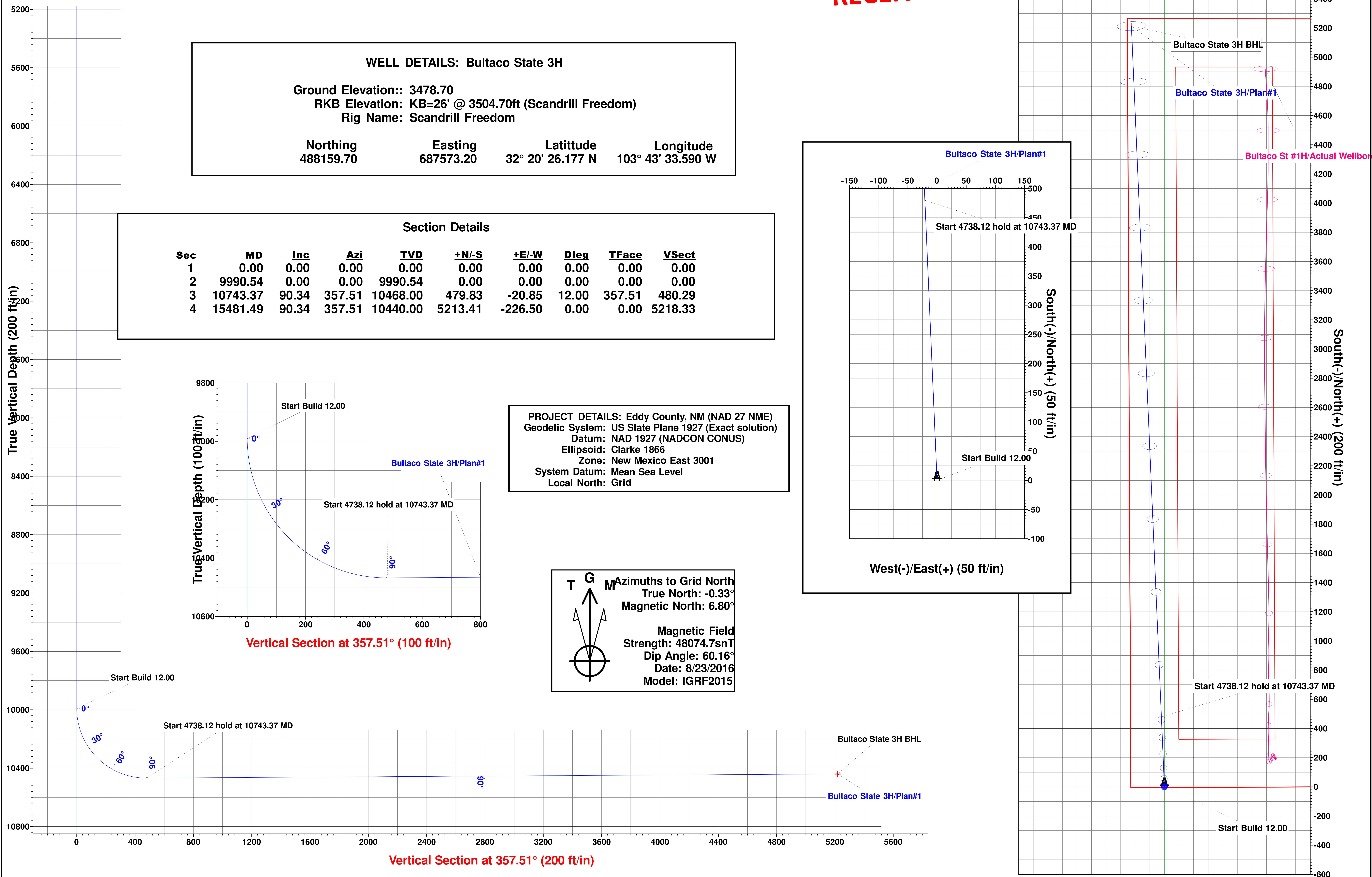




COG Operating L L C
Project: Eddy County, NM (NAD 27 NME)
Site: Sec. 36, T 22 S. , R 31 E
Well: Bultaco State 3H
Wellbore: Wellbore #1
Plan: Plan#1 (Bultaco State 3H/Wellbore #1)
Scandrift Freedom

30-015-43670

OCD – HOBBS
08/24/2016
RECEIVED





COG Operating L L C

Eddy County, NM (NAD 27 NME)

Sec. 36, T 22 S. , R 31 E

Bultaco State 3H

Wellbore #1

Plan: Plan#1

Standard Survey Report

23 August, 2016





Company:	COG Operating L L C	Local Co-ordinate Reference:	Well Bultaco State 3H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB=26' @ 3504.70ft (Scandrill Freedom)
Site:	Sec. 36, T 22 S. , R 31 E	MD Reference:	KB=26' @ 3504.70ft (Scandrill Freedom)
Well:	Bultaco State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Multi User Db

Project	Eddy County, NM (NAD 27 NME)		
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	Sec. 36, T 22 S. , R 31 E		
Site Position:		Northing:	488,159.70 usft
From:	Map	Easting:	687,573.20 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32° 20' 26.177 N
		Longitude:	103° 43' 33.590 W
		Grid Convergence:	0.32 °

Well	Bultaco State 3H		
Well Position	+N/-S	0.00 ft	Northing: 488,159.70 usft
	+E/-W	0.00 ft	Easting: 687,573.20 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Latitude:	32° 20' 26.177 N
		Longitude:	103° 43' 33.590 W
		Ground Level:	3,478.70 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/23/2016	7.12	60.16	48,075

Design	Plan#1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	357.51

Survey Tool Program	Date 8/23/2016			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	15,480.78	Plan#1 (Wellbore #1)	MWD	MWD - Standard

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00



Company:	COG Operating L L C	Local Co-ordinate Reference:	Well Bultaco State 3H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB=26' @ 3504.70ft (Scandriil Freedom)
Site:	Sec. 36, T 22 S. , R 31 E	MD Reference:	KB=26' @ 3504.70ft (Scandriil Freedom)
Well:	Bultaco State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00



Company:	COG Operating L L C	Local Co-ordinate Reference:	Well Bultaco State 3H
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Well:	Bultaco State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00



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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,990.54	0.00	0.00	9,990.54	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 12.00									
10,000.00	1.13	357.51	10,000.00	0.09	0.00	0.09	12.00	12.00	0.00
10,100.00	13.13	357.51	10,099.04	12.48	-0.54	12.49	12.00	12.00	0.00
10,200.00	25.13	357.51	10,193.35	45.17	-1.96	45.21	12.00	12.00	0.00
10,300.00	37.13	357.51	10,278.79	96.73	-4.20	96.82	12.00	12.00	0.00
10,400.00	49.13	357.51	10,351.63	164.91	-7.16	165.07	12.00	12.00	0.00
10,500.00	61.13	357.51	10,408.69	246.74	-10.72	246.97	12.00	12.00	0.00
10,600.00	73.13	357.51	10,447.47	338.62	-14.71	338.94	12.00	12.00	0.00
10,700.00	85.13	357.51	10,466.29	436.56	-18.97	436.97	12.00	12.00	0.00
10,743.37	90.34	357.51	10,468.00	479.83	-20.85	480.29	12.00	12.00	0.00
Start 4738.12 hold at 10743.37 MD									
10,800.00	90.34	357.51	10,467.67	536.41	-23.30	536.92	0.00	0.00	0.00
10,900.00	90.34	357.51	10,467.08	636.32	-27.65	636.92	0.00	0.00	0.00
11,000.00	90.34	357.51	10,466.48	736.22	-31.99	736.92	0.00	0.00	0.00
11,100.00	90.34	357.51	10,465.89	836.13	-36.33	836.91	0.00	0.00	0.00
11,200.00	90.34	357.51	10,465.30	936.03	-40.67	936.91	0.00	0.00	0.00
11,300.00	90.34	357.51	10,464.71	1,035.93	-45.01	1,036.91	0.00	0.00	0.00
11,400.00	90.34	357.51	10,464.12	1,135.84	-49.35	1,136.91	0.00	0.00	0.00
11,500.00	90.34	357.51	10,463.53	1,235.74	-53.69	1,236.91	0.00	0.00	0.00
11,600.00	90.34	357.51	10,462.94	1,335.65	-58.03	1,336.91	0.00	0.00	0.00
11,700.00	90.34	357.51	10,462.35	1,435.55	-62.37	1,436.90	0.00	0.00	0.00
11,800.00	90.34	357.51	10,461.76	1,535.45	-66.71	1,536.90	0.00	0.00	0.00
11,900.00	90.34	357.51	10,461.17	1,635.36	-71.05	1,636.90	0.00	0.00	0.00
12,000.00	90.34	357.51	10,460.57	1,735.26	-75.39	1,736.90	0.00	0.00	0.00
12,100.00	90.34	357.51	10,459.98	1,835.17	-79.73	1,836.90	0.00	0.00	0.00
12,200.00	90.34	357.51	10,459.39	1,935.07	-84.07	1,936.90	0.00	0.00	0.00
12,300.00	90.34	357.51	10,458.80	2,034.97	-88.41	2,036.89	0.00	0.00	0.00
12,400.00	90.34	357.51	10,458.21	2,134.88	-92.75	2,136.89	0.00	0.00	0.00
12,500.00	90.34	357.51	10,457.62	2,234.78	-97.09	2,236.89	0.00	0.00	0.00
12,600.00	90.34	357.51	10,457.03	2,334.69	-101.43	2,336.89	0.00	0.00	0.00
12,700.00	90.34	357.51	10,456.44	2,434.59	-105.77	2,436.89	0.00	0.00	0.00
12,800.00	90.34	357.51	10,455.85	2,534.49	-110.11	2,536.89	0.00	0.00	0.00
12,900.00	90.34	357.51	10,455.26	2,634.40	-114.45	2,636.88	0.00	0.00	0.00
13,000.00	90.34	357.51	10,454.66	2,734.30	-118.79	2,736.88	0.00	0.00	0.00
13,100.00	90.34	357.51	10,454.07	2,834.21	-123.13	2,836.88	0.00	0.00	0.00
13,200.00	90.34	357.51	10,453.48	2,934.11	-127.47	2,936.88	0.00	0.00	0.00
13,300.00	90.34	357.51	10,452.89	3,034.01	-131.81	3,036.88	0.00	0.00	0.00
13,400.00	90.34	357.51	10,452.30	3,133.92	-136.16	3,136.87	0.00	0.00	0.00
13,500.00	90.34	357.51	10,451.71	3,233.82	-140.50	3,236.87	0.00	0.00	0.00
13,600.00	90.34	357.51	10,451.12	3,333.73	-144.84	3,336.87	0.00	0.00	0.00



Company:	COG Operating L L C	Local Co-ordinate Reference:	Well Bultaco State 3H
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	KB=26' @ 3504.70ft (Scandrill Freedom)
Site:	Sec. 36, T 22 S. , R 31 E	MD Reference:	KB=26' @ 3504.70ft (Scandrill Freedom)
Well:	Bultaco State 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1	Database:	EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,700.00	90.34	357.51	10,450.53	3,433.63	-149.18	3,436.87	0.00	0.00	0.00
13,800.00	90.34	357.51	10,449.94	3,533.53	-153.52	3,536.87	0.00	0.00	0.00
13,900.00	90.34	357.51	10,449.35	3,633.44	-157.86	3,636.87	0.00	0.00	0.00
14,000.00	90.34	357.51	10,448.76	3,733.34	-162.20	3,736.86	0.00	0.00	0.00
14,100.00	90.34	357.51	10,448.16	3,833.25	-166.54	3,836.86	0.00	0.00	0.00
14,200.00	90.34	357.51	10,447.57	3,933.15	-170.88	3,936.86	0.00	0.00	0.00
14,300.00	90.34	357.51	10,446.98	4,033.05	-175.22	4,036.86	0.00	0.00	0.00
14,400.00	90.34	357.51	10,446.39	4,132.96	-179.56	4,136.86	0.00	0.00	0.00
14,500.00	90.34	357.51	10,445.80	4,232.86	-183.90	4,236.86	0.00	0.00	0.00
14,600.00	90.34	357.51	10,445.21	4,332.77	-188.24	4,336.85	0.00	0.00	0.00
14,700.00	90.34	357.51	10,444.62	4,432.67	-192.58	4,436.85	0.00	0.00	0.00
14,800.00	90.34	357.51	10,444.03	4,532.57	-196.92	4,536.85	0.00	0.00	0.00
14,900.00	90.34	357.51	10,443.44	4,632.48	-201.26	4,636.85	0.00	0.00	0.00
15,000.00	90.34	357.51	10,442.85	4,732.38	-205.60	4,736.85	0.00	0.00	0.00
15,100.00	90.34	357.51	10,442.25	4,832.29	-209.94	4,836.85	0.00	0.00	0.00
15,200.00	90.34	357.51	10,441.66	4,932.19	-214.28	4,936.84	0.00	0.00	0.00
15,300.00	90.34	357.51	10,441.07	5,032.09	-218.62	5,036.84	0.00	0.00	0.00
15,400.00	90.34	357.51	10,440.48	5,132.00	-222.96	5,136.84	0.00	0.00	0.00
15,481.49	90.34	357.51	10,440.00	5,213.41	-226.50	5,218.33	0.00	0.00	0.00
TD at 15481.49									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Bultaco State 3H BHL	0.00	0.00	10,440.00	5,213.41	-226.50	493,373.10	687,346.70	32° 21' 17.780 N	103° 43' 35.886 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9991	9991	0	0	Start Build 12.00
10,743	10,468	480	-21	Start 4738.12 hold at 10743.37 MD
15,481	10,440	5213	-227	TD at 15481.49

Checked By: _____ Approved By: _____ Date: _____