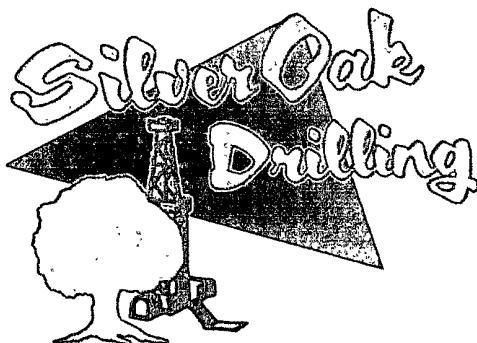




PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

30-015-38284

October 12, 2011

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Skelly Unit #750
1252' FSL & 94' FEL
Sec. 22, T17S, R31E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Eddie C. LaRue".

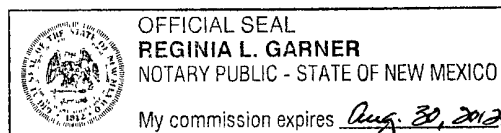
Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 12th day of October, 2011.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".

Notary Public



Skelly Unit #750

Date	Depth	Dev/Inc	Dir/AZ	TVD	Hor. Disp.
9/30/2011	564	0.20		581	
10/1/2011	854	0.40			
10/2/2011	1321	0.30		1376	
10/2/2011	1803	1.50		1815	
10/3/2011	1897	1.60	53.10		
10/3/2011	1866	1.40	52.40		
10/3/2011	1928	1.90	47.30		
10/3/2011	1959	1.70	40.70		
10/3/2011	2022	1.40	19.70	2021.77	2.33
10/3/2011	2115	1.50	358.90	2144.74	0.56
10/4/2011	2208	2.20	349.90	2207.69	2.15
10/4/2011	2301	3.30	347.30		
10/4/2011	2395	4.50	335.00		
10/4/2011	2488	5.20	334.00		
10/4/2011	2582	6.90	333.10		
10/4/2011	2675	6.20	327.30		
10/4/2011	2764	6.60	323.30	2766.32	31.31
10/4/2011	2862	6.50	322.50	2858.71	61.87
10/5/2011	2955	5.90	323.80		
10/5/2011	3049	6.70	320.30		
10/5/2011	3142	6.20	320.90		
10/5/2011	3236	6.20	320.10		
10/5/2011	3329	6.00	322.20		
10/5/2011	3423	6.90	324.30		
10/5/2011	3576	6.50	323.50		
10/5/2011	3610	6.10	324.20		
10/5/2011	3703	7.20	319.90		
10/5/2011	3796	6.60	321.80	3736.90	165.30
10/5/2011	3889	6.60	323.20	3879.25	175.97
10/5/2011	3983	6.60	320.40		
10/5/2011	4076	6.70	328.70		
10/6/2011	4170	6.00	326.50		
10/6/2011	4357	5.80	326.00		
10/6/2011	4263	6.00	324.60		
10/6/2011	4357	5.80	326.00		
10/6/2011	4450	5.80	320.50		
10/6/2011	4543	5.70	337.00	4529.50	
10/6/2011	4637	5.80	334.80	4623.00	
10/7/2011	4791	5.80	334.60		
10/7/2011	4885	5.50	335.10		
10/7/2011	4978	5.30	334.10		
10/7/2011	5072	5.10	335.10		
10/7/2011	5166	4.80	330.20	5213.00	
10/7/2011	5259	4.80	328.40	5307.00	
10/7/2011	5352	5.10	327.00	5400.00	
10/7/2011	5446	5.00	325.50	5424.00	
10/7/2011	5539	4.50	328.20	5587.00	
10/7/2011	5633	5.40	326.00	5614.91	
10/7/2011	5820	5.70	317.50	5801.04	
10/7/2011	5924	5.20	228.20		

Skelly Unit #750

Date	Depth	Dev/Inc	Dir/AZ	TVD Hor. Disp.
10/7/2011	5913	5.40	319.10	
10/8/2011	6006	5.50	319.10	
10/8/2011	6099	5.70	321.40	
10/8/2011	6193	6.00	324.10	6171.30
10/8/2011	6286	6.00	324.60	6269.79
10/8/2011	6379	5.80	325.40	6367.30
10/8/2011	6474	5.80	324.00	6451.81
10/9/2011	6567	5.80	324.80	
10/9/2011	6659	5.90	326.40	
10/9/2011	6754	5.80	326.90	
10/9/2011	6847	5.80	326.40	



Ryan Energy Directional Drilling Report

Field: Eddy Co, NM
Site: Skelly Unit #750
Well: #750
Wellpath: OH

Prepared For:

COG Operating LLC



Ryan Energy Technology

19510 Oil Center Blvd
Houston, TX 77073
Ph 281-443-1414
Fx 281-443-1676

www.ryanenergy.com

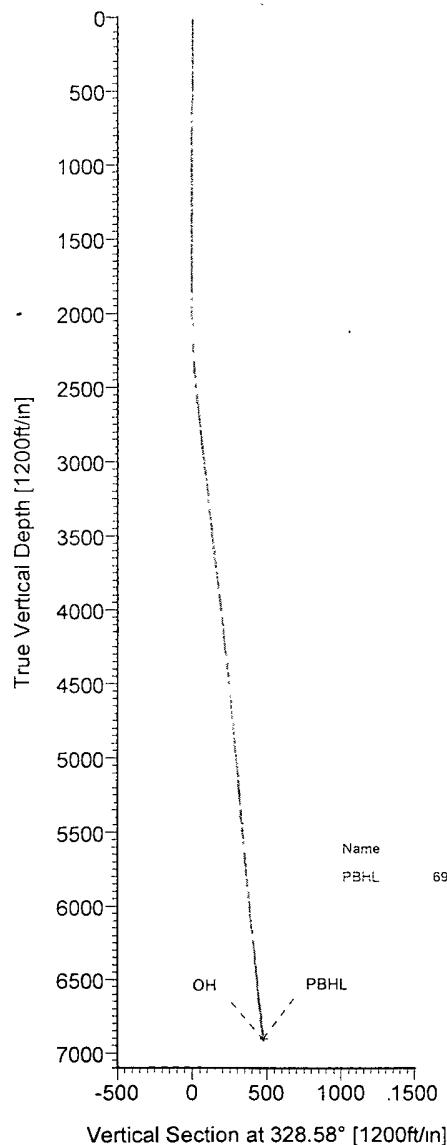


COG Operating LLC

Field: Eddy Co, NM
Site: Skelly Unit #750
Well: #750
Wellpath: OH



Azimuths to Grid North
True North -0.26°
Magnetic North 7.46°
Magnetic Field
Strength: 48939nT
Dip Angle: 60.68°
Date: 9/28/2011
Model: IGRF2010



FIELD DETAILS

Eddy Co, NM
New Mexico
U.S.A.
Geodetic System: US State Plane Coordinate System 1927
Ellipsoid: NAD27 (Clarke 1866)
Zone: New Mexico Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

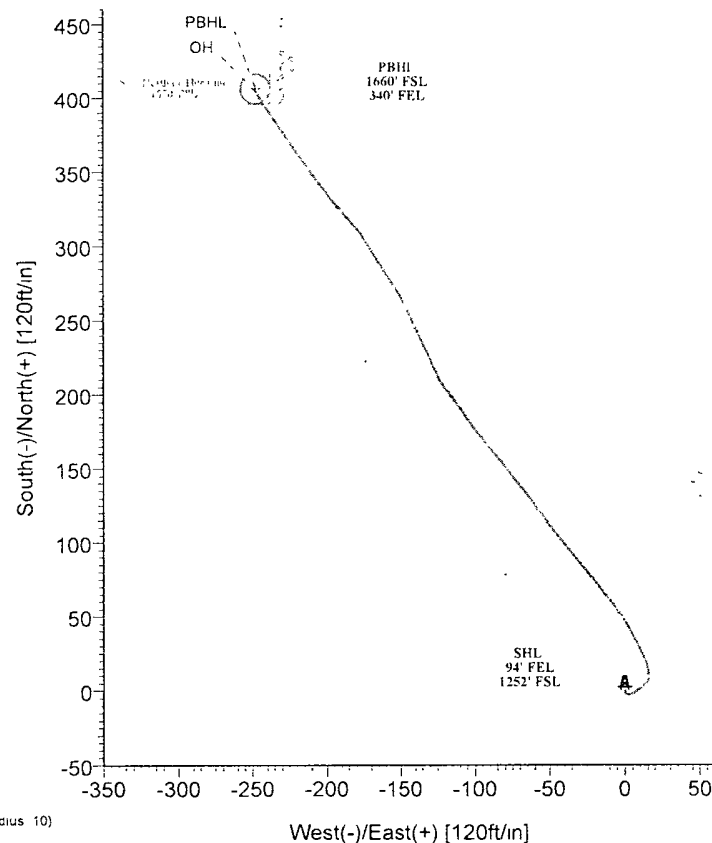
Skelly Unit #750
Eddy Co, NM
Site Centre Northing: 660975.60
Easting: 648900.70
Ground Level: 3850.00
Positional Uncertainty: 0.00
Convergence: 0.26

WELLPATH DETAILS

OH
Rig Ref Datum: SITE 3850.00ft
V Section Angle: Origin -N/-S Starting From TVD
328.58° 0.00 0.00 0.00

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	6900.00	406.20	-248.10	661387.80	648652.60	32°49'02.248N	103°50'58.063W	Circle (Radius: 10)



Ryan Energy Technologies
19510 Oil Center Blvd
Houston, TX 77073
Ph: 281-443-1414
Fx: 281-443-1676



Wellpath: #750OH
Created By: Eric De La Pa Date: 10/10/2011
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____



Ryan Energy Technologies

Survey Report



Company: COG Operating LLC		Date: 10/10/2011	Time: 12:50:10	Page: 1
Field: Eddy Co, NM		Co-ordinate(NE) Reference: Site: Skelly Unit #750, Grid North		
Site: Skelly Unit #750		Vertical (TYD) Reference: SITE 3850.0		
Well: #750		Section (VS) Reference: Well (0 00N, 0.00E, 328.58Azi)		
Wellpath: OH		Survey Calculation Method: Minimum Curvature Db: Sybase		

Field: Eddy Co, NM New Mexico U S A		Map Zone: New Mexico, Eastern Zone	
Map System: US State Plane Coordinate System 1927		Coordinate System: Site Centre	
Geo Datum: NAD27 (Clarke 1866)		Geomagnetic Model: IGRF2010	
Sys Datum: Mean Sea Level			

Site: Skelly Unit #750			
Eddy Co, NM			
Site Position:	From: Map	Northing: 660975 60 ft	Latitude: 32 48 58 218 N
		Easting: 648900 70 ft	Longitude: 103 50 55 178 W
Position Uncertainty: 0 00 ft		North Reference: Grid	Grid Convergence: 0 26 deg
Ground Level: 3850.00 ft			

Well: #750		Slot Name:	
Well Position: +N/-S 0 00 ft	Northing: 660975 60 ft	Latitude: 32 48 58 218 N	
+E/-W 0 00 ft	Easting: 648900 70 ft	Longitude: 103 50 55 178 W	
Position Uncertainty: 0 00 ft			

Wellpath: OH		Drilled From: Surface	
Current Datum: SITE		Tie-on Depth: 0.00 ft	
Magnetic Data: 9/28/2011		Above System Datum: Mean Sea Level	
Field Strength: 48939 nT		Declination: 7 73 deg	
Vertical Section: Depth From (TYD)		Mag Dip Angle: 60.68 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0 00	0 00	0 00	328 58

Survey Program for Definitive Wellpath				
Date: 10/10/2011	Validated: No	Version: 0		
Actual From ft	To ft	Survey	Toolcode	Tool Name
100 00	1762 00	Survey #1 (100.00-1762 00)	Gyro	Gyro
1866 00	6892 00	Survey #2 (1866 00-6892 00)	Ryan MWD	Ryan MWD
6940 00	6940.00	Survey #3 (6940 00-6940.00)	Projection	Projection

Survey										
MD ft.	Incl deg	Azim deg	TYD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	TIE LINE
100 00	0 32	186 50	100 00	-0 28	-0 03	-0 22	0 32	0 32	0 00	Gyro
200 00	0 22	150 52	200 00	-0 72	0 03	-0 63	0 19	-0 10	-35 98	Gyro
300 00	0 23	169 01	300 00	-1 09	0 16	-1 01	0 07	0 01	18 49	Gyro
400 00	0 24	153 11	400 00	-1 47	0 30	-1 41	0 07	0 01	-15 90	Gyro
500 00	0 21	154 47	500 00	-1 82	0 47	-1 80	0 03	-0 03	1 36	Gyro
600 00	0 09	164 05	600 00	-2 06	0 57	-2 06	0 12	-0 12	9 58	Gyro
700 00	0 03	254 50	700 00	-2 15	0 57	-2 13	0 10	-0 06	90 45	Gyro
800 00	0 17	162 17	800 00	-2 29	0 59	-2 26	0 17	0 14	-92 33	Gyro
900 00	0 10	167 21	900 00	-2 52	0 65	-2 49	0 07	-0 07	5 04	Gyro
1000 00	0 09	166 64	1000 00	-2 68	0 69	-2 65	0 01	-0 01	-0 57	Gyro
1100 00	0 33	102 29	1099 99	-2 82	0 99	-2 92	0 30	0 24	-64 35	Gyro
1200 00	0 43	100 75	1199 99	-2 95	1 64	-3 37	0 10	0 10	-1 54	Gyro
1300 00	0 52	97 13	1299 99	-3 08	2 46	-3 91	0 09	0 09	-3 62	Gyro
1400 00	0 63	83 76	1399 98	-3 07	3 46	-4 42	0 17	0 11	-13 37	Gyro
1500 00	1 06	61 30	1499 97	-2 57	4 81	-4 70	0 53	0 43	-22 46	Gyro
1600 00	1 92	54 91	1599 94	-1 16	7 00	-4 64	0 87	0 86	-6 39	Gyro
1700 00	1 62	52 88	1699 89	0 65	9 49	-4 39	0 31	-0 30	-2 03	Gyro
1762 00	1 64	44 30	1761 87	1 82	10 81	-4 09	0 39	0 03	-13 84	Gyro
1866 00	1 40	52 40	1865 83	3 66	12 86	-3 58	0 31	-0 23	7 79	Ryan MWD
1928 00	1 70	47 30	1927 81	4 74	14 13	-3 32	0 53	0 48	-8 23	Ryan MWD



Ryan Energy Technologies Survey Report



Company: COG Operating LLC Date: 10/10/2011 Time: 12:50:10 Page: 2
Field: Eddy Co, NM Co-ordinate(NE) Reference: Site: Skelly Unit #750, Grd North
Site: Skelly Unit #750 Vertical (TVD) Reference: SITE 3850 0
Well: #750 Section (VS) Reference: Well (0 00N, 0 00E, 328 58Azi)
Wellpath: OH Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2022.00	1 40	19.70	2021.77	6 77	15 55	-2 33	0 85	-0 32	-29 36	Ryan MWD
2115.00	1 50	358.90	2114.74	9 06	15 90	-0 56	0 57	0 11	-22 37	Ryan MWD
2208.00	2 20	349.90	2207.69	12 03	15 57	2 15	0 81	0 75	-9 68	Ryan MWD
2301.00	3 30	347 30	2300 59	16 40	14 67	6 35	1 19	1 18	-2 80	Ryan MWD
2395.00	4 50	335 00	2394.37	22 38	12 51	12 58	1 55	1 28	-13.09	Ryan MWD
2488.00	5 20	334.00	2487 04	29 48	9 12	20 40	0 76	0 75	-1 08	Ryan MWD
2582.00	6 90	333 10	2580 51	38 34	4 70	30 27	1 81	1 81	-0 96	Ryan MWD
2675.00	6 20	327 30	2672 90	47 55	-0 54	40 86	1 03	-0 75	-6 24	Ryan MWD
2769.00	6 60	323.30	2766 32	56 15	-6 51	51 31	0 64	0 43	-4 26	Ryan MWD
2862.00	6 50	322.50	2858 71	64 61	-12 91	61.87	0 15	-0 11	-0.86	Ryan MWD
2955.00	5 90	323 80	2951 16	72 65	-18 94	71 87	0 66	-0.65	1.40	Ryan MWD
3049.00	6 70	320 30	3044 60	80 76	-25 29	82 11	0.94	0 85	-3.72	Ryan MWD
3142.00	6 20	320.90	3137 01	88.84	-31 92	92 45	0 54	-0.54	0 65	Ryan MWD
3236.00	6 20	320 10	3230 46	96 67	-38 38	102 50	0 09	0 00	-0 85	Ryan MWD
3329.00	6 00	322.20	3322 93	104 36	-44 58	112 30	0 32	-0 22	2 26	Ryan MWD
3423.00	6 70	324.30	3416 35	112 70	-50 79	122 65	0 78	0.74	2.23	Ryan MWD
3516.00	6 50	323 50	3508 74	121 33	-57 09	133 30	0 24	-0 22	-0 86	Ryan MWD
3610.00	6 10	324.20	3602 17	129 66	-63 18	143 58	0 43	-0 43	0 74	Ryan MWD
3703.00	7 20	319 90	3694 54	138 13	-69 82	154 27	1.30	1.18	-4 62	Ryan MWD
3796.00	6 60	321.80	3786 87	146 79	-76 88	165 34	0 69	-0 65	2.04	Ryan MWD
3889.00	6 60	323 20	3879 25	155 27	-83 39	175 97	0 17	0.00	1 51	Ryan MWD
3983.00	6 60	320 40	3972 63	163 75	-90 07	186 70	0 34	0.00	-2 98	Ryan MWD
4076.00	6 70	320.70	4065 00	172.07	-96 91	197 36	0 11	0.11	0 32	Ryan MWD
4170.00	6 00	326 50	4158.43	180 41	-103 09	207 70	1 01	-0 74	6.17	Ryan MWD
4263.00	6 00	324 60	4250.92	188.43	-108 59	217 41	0 21	0 00	-2 04	Ryan MWD
4357.00	5 80	326 00	4344 42	196 37	-114 09	227 05	0 26	-0 21	1 49	Ryan MWD
4450.00	5 80	320.50	4436.95	203 89	-119 71	236 40	0 60	0 00	-5 91	Ryan MWD
4543.00	5 70	337 00	4529.48	211 77	-124 51	245 62	1 77	-0 11	17 74	Ryan MWD
4637.00	5 80	334 90	4623.01	220 37	-128 34	254 96	0 25	0 11	-2 23	Ryan MWD
4698.00	5 80	334 30	4683 70	225 93	-130.99	261 09	0 10	0.00	-0 98	Ryan MWD
4791.00	5 80	334 60	4776 22	234 41	-135 04	270.44	0 03	0 00	0 32	Ryan MWD
4885.00	5 50	335 00	4869 77	242 79	-138 98	279 64	0 32	-0 32	0 43	Ryan MWD
4978.00	5 30	334 10	4962 35	250 69	-142 74	288 34	0 23	-0 22	-0 97	Ryan MWD
5072.00	5 10	335 50	5055 97	258 40	-146 37	296 81	0 25	-0 21	1 49	Ryan MWD
5166.00	4.80	330 20	5149.62	265 61	-150 06	304 89	0 58	-0 32	-5 64	Ryan MWD
5259.00	4 80	328 40	5242 29	272 30	-154 03	312 67	0 16	0 00	-1 94	Ryan MWD
5352.00	5 10	327 00	5334 94	279 08	-158 32	320 69	0 35	0 32	-1 51	Ryan MWD
5446.00	5 00	325 50	5428 58	285 96	-162 92	328 96	0 18	-0 11	-1.60	Ryan MWD
5539.00	4.50	328.20	5521 26	292.40	-167 13	336 66	0.59	-0 54	2 90	Ryan MWD
5633.00	5 40	326 90	5614 91	299 24	-171 49	344 77	0 96	0 96	-1 38	Ryan MWD
5726.00	5 20	328 20	5707 51	306 49	-176 10	353 35	0 25	-0 22	1 40	Ryan MWD
5820.00	5 70	317 30	5801 09	313 54	-181 51	362 19	1 22	0 53	-11.60	Ryan MWD
5913.00	5 40	319 10	5893 65	320 24	-187 51	371 04	0 37	-0 32	1.94	Ryan MWD
6007.00	5 50	319 70	5987 23	327 02	-193 32	379 85	0 12	0 11	0 64	Ryan MWD
6099.00	5 70	321 40	6078 79	333 96	-199 02	388 74	0 28	0 22	1 85	Ryan MWD
6192.00	6 00	324 10	6171 30	341 50	-204 75	398 17	0 44	0 32	2.90	Ryan MWD
6286.00	6 00	324 60	6264 79	349 49	-210 48	407 97	0 06	0 00	0 53	Ryan MWD
6379.00	5 80	325 40	6357 30	357 32	-215 97	417 51	0 23	-0 22	0 86	Ryan MWD
6474.00	5 80	324 00	6451 81	365 15	-221 51	427 09	0 15	0 00	-1 47	Ryan MWD
6567.00	5.80	324 80	6544 33	372 79	-226 98	436 46	0.09	0.00	0 86	Ryan MWD
6660.00	5 80	326 40	6636 86	380 55	-232 29	445.84	0 17	0.00	1 72	Ryan MWD
6754.00	5 80	326 90	6730 38	388 48	-237 51	455.34	0.05	0 00	0 53	Ryan MWD
6847.00	5 80	326 40	6822.90	396 33	-242 68	464 73	0 05	0.00	-0 54	Ryan MWD
6892.00	5 70	327 60	6867 67	400 11	-245 14	469 24	0 35	-0.22	2.67	Ryan MWD



Ryan Energy Technologies Survey Report



Company: COG Operating LLC	Date: 10/10/2011	Time: 12:50:10	Page: 3
Field: Eddy Co, NM	Co-ordinate(NE) Reference:	Site: Skelly Unit #750, Grid North	
Site: Skelly Unit #750	Vertical (TV D) Reference:	SITE: 3850 0	
Well: #750	Section (VS) Reference:	Well (0.00N,0.00E,328.58Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TV D ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6940.00	5.70	327.60	6915.44	404.14	-247.69	474.00	0.00	0.00	0.00	Projection



Ryan Energy Technologies COMPLETION REPORT



Company: COG Operating, LLC	Date: 10/10/2011	Time: 12:57:54	Page: 1
Field: Eddy Co, NM	Co-ordinate(NE) Reference:	Site, Skelly Unit #750, Grid North	
Site: Skelly Unit #750	Vertical (TVD) Reference:	SITE 3850 0	
Well: #750	Section (VS) Reference:	Well (0.00N,0.00E,328.58Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: Eddy Co, NM New Mexico U S A.	Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre	
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010	

Site: Skelly Unit #750					
Eddy Co, NM					
Site Position:	Northing: 660975 60 ft	Latitude: 32 48 58.218 N			
From: Map	Easting: 648900 70 ft	Longitude: 103 50 55 178 W			
Position Uncertainty: 0.00 ft		North Reference: Grid			
Ground Level: 3850.00 ft		Grid Convergence: 0 26 deg			

Well: #750	Slot Name:				
Well Position: +N/-S 0 00 ft	Northing: 660975.60 ft	Latitude: 32 48 58 218 N			
+E/-W 0 00 ft	Easting: 648900.70 ft	Longitude: 103 50 55 178 W			
Position Uncertainty: 0 00 ft					

Wellpath: OH	Drilled From: Surface				
Current Datum: SITE	Tie-on Depth: 0.00 ft				
Magnetic Data: 9/28/2011	Above System Datum: Mean Sea Level				
Field Strength: 48939 nT	Declination: 7 73 deg				
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 68 deg				
ft	+N/-S ft	+E/-W ft	Direction deg		
0 00	0.00	0 00	328.58		

Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi deg	DLS deg/100ft	Tool
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	TIE LINE
100 00	0 32	100 00	-0 22	186 50	-0 28	-0 03	0 28	186 50	0 32	Gyro
200 00	0 22	200 00	-0 63	150 52	-0 72	0 03	0 72	177 52	0 19	Gyro
300 00	0 23	300 00	-1 01	169 01	-1 09	0 16	1 10	171 41	0 07	Gyro
400 00	0 24	400 00	-1 41	153 11	-1 47	0 30	1 50	168 58	0 07	Gyro
500 00	0 21	500 00	-1 80	154 47	-1 82	0 47	1 88	165 52	0 03	Gyro
600 00	0 09	600 00	-2 06	164 05	-2 06	0 57	2 14	164 52	0 12	Gyro
700 00	0 03	700 00	-2 13	254 50	-2 15	0 57	2 22	165 18	0 10	Gyro
800 00	0 17	800 00	-2 26	162 17	-2 29	0 59	2 37	165 63	0 17	Gyro
900 00	0 10	900 00	-2 49	167 21	-2 52	0 65	2 60	165 48	0 07	Gyro
1000 00	0 09	1000 00	-2 65	166 64	-2 68	0 69	2 77	165 57	0 01	Gyro
1100 00	0 33	1099 99	-2 92	102 29	-2 82	0 99	2 99	160 66	0 30	Gyro
1200 00	0 43	1199 99	-3 37	100 75	-2 95	1 64	3 38	150 94	0 10	Gyro
1300 00	0 52	1299 99	-3 91	97 13	-3 08	2 46	3 94	141 38	0 09	Gyro
1400 00	0 63	1399 98	-4 42	83 76	-3 07	3 46	4 62	131 65	0 17	Gyro
1500 00	1 06	1499 97	-4 70	61 30	-2 57	4 81	5 46	118 10	0 53	Gyro
1600 00	1 92	1599 94	-4 64	54 91	-1 16	7 00	7 09	99 43	0 87	Gyro
1700 00	1 62	1699 89	-4 39	52 88	0 65	9 49	9 52	86 06	0 31	Gyro
1762 00	1 64	1761 87	-4 09	44 30	1 82	10 81	10 96	80 46	0 39	Gyro
1866 00	1 40	1865 83	-3 58	52 40	3 66	12 86	13 37	74 12	0 31	Ryan MWD
1928 00	1 70	1927 81	-3 32	47 30	4 74	14 13	14 91	71 45	0 53	Ryan MWD
2022 00	1 40	2021 77	-2 33	19 70	6 77	15 55	16 96	66 47	0 85	Ryan MWD
2115 00	1 50	2114 74	-0 56	358 90	9 06	15 90	18 30	60 34	0 57	Ryan MWD
2208 00	2 20	2207 69	2 15	349 90	12 03	15 57	19 68	52 30	0 81	Ryan MWD
2301 00	3 30	2300 59	6 35	347 30	16 40	14 67	22 00	41 81	1 19	Ryan MWD
2395 00	4 50	2394 37	12 58	335 00	22 38	12 51	25 64	29 21	1 55	Ryan MWD
2488 00	5 20	2487 04	20 40	334 00	29 48	9 12	30 86	17 20	0 76	Ryan MWD
2582 00	6 90	2580 51	30 27	333 10	38 34	4 70	38 63	6 99	1 81	Ryan MWD



Ryan Energy Technologies COMPLETION REPORT



Company: COG Operating LLC Date: 10/10/2011 Time: 12:57:54 Page: 2
Field: Eddy Co, NM Co-ordinate(NE) Reference: Site: Skelly Unit #750, Grnd North
Site: Skelly Unit #750 Vertical (TYD) Reference: SITE 3850 0
Well: #750 Section (VS) Reference: Well: (0.00N, 0.00E, 328.58Azi)
Wellpath: OH Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	TVD ft	VS ft	Azim deg	N/S ft	E/W ft	Clsr Dist. ft	Clsr Azi. deg	DLS deg/100ft	Tool
2675 00	6 20	2672.90	40 86	327 30	47 55	-0.54	47 55	359.35	1 03	Ryan MWD
2769 00	6 60	2766 32	51 31	323 30	56 15	-6 51	56 53	353 39	0 64	Ryan MWD
2862 00	6 50	2858 71	61 87	322 50	64 61	-12 91	65 89	348.70	0 15	Ryan MWD
2955 00	5 90	2951 16	71 87	323 80	72 65	-18 94	75 07	345 39	0 66	Ryan MWD
3049 00	6 70	3044.60	82.11	320 30	80 76	-25.29	84 63	342 61	0 94	Ryan MWD
3142 00	6.20	3137 01	92 45	320 90	88.84	-31.92	94 40	340 23	0 54	Ryan MWD
3236 00	6 20	3230 46	102.50	320 10	96 67	-38 38	104.01	338 34	0.09	Ryan MWD
3329 00	6 00	3322.93	112 30	322.20	104 36	-44 58	113 49	336 87	0 32	Ryan MWD
3423 00	6.70	3416 35	122 65	324 30	112.70	-50 79	123 62	335 74	0 78	Ryan MWD
3516 00	6 50	3508.74	133 30	323.50	121 33	-57 09	134.09	334 80	0 24	Ryan MWD
3610 00	6.10	3602 17	143.58	324 20	129.66	-63 18	144.23	334 02	0 43	Ryan MWD
3703.00	7.20	3694 54	154.27	319 90	138 13	-69.82	154 77	333 18	1 30	Ryan MWD
3796 00	6 60	3786 87	165.34	321 80	146.79	-76 88	165.70	332 36	0.69	Ryan MWD
3889 00	6 60	3879.25	175 97	323 20	155.27	-83 39	176 24	331 76	0 17	Ryan MWD
3983 00	6 60	3972.63	186.70	320 40	163 75	-90.07	186.89	331 19	0 34	Ryan MWD
4076 00	6 70	4065.00	197 36	320 70	172.07	-96.91	197 48	330 61	0.11	Ryan MWD
4170 00	6 00	4158 43	207.70	326 50	180.41	-103 09	207 79	330 25	1.01	Ryan MWD
4263 00	6.00	4250 92	217 41	324 60	188.43	-108.59	217.48	330 04	0.21	Ryan MWD
4357 00	5 80	4344 42	227 05	326.00	196 37	-114.09	227 11	329.84	0 26	Ryan MWD
4450 00	5 80	4436.95	236 40	320 50	203 89	-119 71	236 44	329 58	0.60	Ryan MWD
4543 00	5 70	4529.48	245 62	337 00	211.77	-124 51	245.66	329 55	1.77	Ryan MWD
4637 00	5 80	4623 01	254.96	334 90	220 37	-128 34	255.02	329 78	0.25	Ryan MWD
4698 00	5 80	4683.70	261.09	334 30	225 93	-130.99	261.16	329.90	0 10	Ryan MWD
4791 00	5 80	4776 22	270 44	334 60	234.41	-135.04	270 53	330 05	0.03	Ryan MWD
4885 00	5 50	4869.77	279 64	335.00	242 79	-138 98	279 75	330 21	0 32	Ryan MWD
4978 00	5.30	4962 35	288 34	334 10	250 69	-142.74	288 48	330.34	0 23	Ryan MWD
5072 00	5 10	5055 97	296 81	335 50	258.40	-146.37	296 97	330.47	0 25	Ryan MWD
5166 00	4.80	5149.62	304.89	330 20	265.61	-150 06	305 07	330 54	0 58	Ryan MWD
5259 00	4 80	5242 29	312.67	328.40	272 30	-154 03	312 85	330.50	0 16	Ryan MWD
5352 00	5.10	5334 94	320 69	327 00	279 08	-158 32	320 86	330.43	0.35	Ryan MWD
5446 00	5 00	5428.58	328 96	325 50	285.96	-162 92	329 12	330 33	0.18	Ryan MWD
5539 00	4 50	5521 26	336 66	328 20	292 40	-167.13	336 80	330.25	0 59	Ryan MWD
5633 00	5 40	5614 91	344 77	326 90	299.24	-171 49	344 90	330.18	0 96	Ryan MWD
5726 00	5.20	5707.51	353.35	328.20	306.49	-176.10	353 48	330.12	0 25	Ryan MWD
5820 00	5 70	5801 09	362 19	317 30	313 54	-181 51	362.29	329 93	1 22	Ryan MWD
5913 00	5 40	5893 65	371 04	319 10	320.24	-187 51	371 10	329 65	0.37	Ryan MWD
6007 00	5 50	5987 23	379.85	319 70	327 02	-193.32	379 89	329 41	0.12	Ryan MWD
6099 00	5 70	6078 79	388 74	321 40	333.96	-199 02	388 76	329 21	0 28	Ryan MWD
6192 00	6 00	6171 30	398 17	324.10	341 50	-204 75	398 18	329 05	0 44	Ryan MWD
6286 00	6 00	6264 79	407.97	324 60	349 49	-210 48	407 97	328.94	0 06	Ryan MWD
6379 00	5 80	6357 30	417 51	325 40	357.32	-215 97	417 51	328.85	0 23	Ryan MWD
6474 00	5 80	6451 81	427 09	324 00	365.15	-221.51	427 09	328.76	0 15	Ryan MWD
6567 00	5 80	6544 33	436.46	324.80	372.79	-226.98	436 46	328.66	0 09	Ryan MWD
6660 00	5 80	6636 86	445 84	326 40	380 55	-232 29	445 84	328.60	0.17	Ryan MWD
6754 00	5 80	6730 38	455 34	326.90	388.48	-237 51	455 34	328.56	0 05	Ryan MWD
6847 00	5 80	6822 90	464 73	326 40	396 33	-242 68	464 73	328.52	0 05	Ryan MWD
6892 00	5 70	6867 67	469.24	327 60	400 11	-245 14	469 24	328 51	0 35	Ryan MWD
6940 00	5 70	6915 44	474.00	327 60	404 14	-247 69	474 00	328 50	0 00	Projection



Company: Concho Operating
Lease/Well: Skelly Unit/#750
Location: 9 Miles E Of Loco Hills
Rig Name: Silver Oak #6
State/County: New Mexico/Eddy
Latitude: 32.82
GRID North is 0.26 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: skelly unit #750_ed.ut

Minimum Curvature Method

Report Date/Time: 10/14/2011 / 14:11

Vaughn Energy Services

Midland, TX

432-563-5444

Surveyor: Glen McCandless

Skelly Unit #750

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.32	186.50	100.00	-0.27	-0.03	0.28	186.50	0.32
200.00	0.22	150.52	200.00	-0.72	0.03	0.72	177.43	0.19
300.00	0.23	169.01	300.00	-1.08	0.16	1.09	171.31	0.07
400.00	0.24	153.11	400.00	-1.46	0.30	1.49	168.46	0.07
500.00	0.21	154.47	500.00	-1.82	0.47	1.88	165.40	0.03
600.00	0.09	164.05	600.00	-2.06	0.57	2.14	164.42	0.12
700.00	0.03	254.50	700.00	-2.15	0.57	2.22	165.15	0.10
800.00	0.17	162.17	800.00	-2.29	0.59	2.37	165.66	0.17
900.00	0.10	167.21	900.00	-2.52	0.65	2.60	165.52	0.07
1000.00	0.09	166.64	1000.00	-2.68	0.69	2.76	165.61	0.02
1100.00	0.33	102.29	1099.99	-2.81	0.98	2.98	160.74	0.30
1200.00	0.43	100.75	1199.99	-2.94	1.63	3.36	151.04	0.10
1300.00	0.52	97.13	1299.99	-3.07	2.45	3.92	141.39	0.10
1400.00	0.63	83.76	1399.98	-3.06	3.45	4.61	131.64	0.17
1500.00	1.06	61.30	1499.97	-2.56	4.80	5.44	118.03	0.54
1600.00	1.92	54.91	1599.94	-1.15	6.99	7.09	99.31	0.87
1700.00	1.62	52.88	1699.89	0.67	9.49	9.52	85.95	0.31
1762.00	1.64	44.30	1761.87	1.84	10.81	10.97	80.36	0.40



Vaughn Energy Services
Midland, TX
432-563-5444
Surveyor: Glen McCandless
Skelly Unit #750

