

OPERATOR COG Operating
WELL/LEASE Gadwall Federal #5-H
COUNTY Lea Co., NM.

HOBBS OOD

MAR 17 2015

RECEIVED

STATE OF NEW MEXICO
DEVIATION REPORT

201	0.44
843	1.70
1040	1.50
1230	1.10
1451	0.40
2019	0.40
2303	0.50
3153	0.80
3437	0.50
3721	0.40
4004	2.20
4287	1.60
4845	1.40
5399	0.80
5980	1.60
6240	1.90
6550	1.80
6800	1.50
7043	0.50
7422	1.80
7920	3.80
8398	2.60
8450	1.10
8544	0.90
8828	0.30
9017	0.50
9112	2.60
9396	2.50
9485	1.60
9864	1.80
9959	1.90
10053	2.60
10147	2.50
10391	5.00

SIGNED BY:

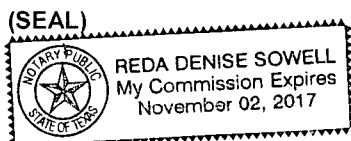
Ron Scandolari

RON SCANDOLARI, VP-CONTRACT DRILLING

STATE OF TEXAS

COUNTY OF MIDLAND

ON THIS 2 DAY OF February, ²⁰¹⁵~~2014~~, BEFORE ME, R SOWELL, A NOTARY
PUBLIC, PERSONALLY APPEARED RON SCANDOLARI, WHO ACKNOWLEDGED AND EXECUTED
THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.



Reda Denise Sowell
NOTARY PUBLIC

MAR 26 2015

jm



January 16, 2015

HOBBS OOD

MAR 17 2015

RECEIVED

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

Attn: Kanicia Castillo

RE: **Gadwall 35 Federal 5H**

Please find enclosed a copy of the survey from 0.00' to 10,270.00' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

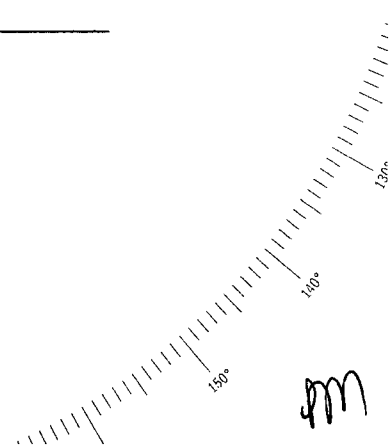
STATE OF TEXAS §

§

COUNTY OF NUECES §

This instrument was acknowledged before me on the _____ day of _____, A.D., 2015, by Keith Havelka.

Jennifer Ann Byerly
Notary Public, State of Texas





Company: CONCHO
Lease/Well: GADWALL 35 FEDERAL/5H

Rig Name: BASIC 46
State/County: NEW MEXICO /LEA
Latitude: 32.17, Longitude: -103.64
GRID North is 0.37 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB: 22 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 1/16/2015 / 13:19

VES Survey International
West Texas
(432) 563-5444
Surveyor: Jordan Shelleby
Gadwall 35 Federal 5H / API 30-025-42291

HOBBS OGD

MAR 17 2015

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section 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	0.00	****
100.00	0.52	163.67	100.00	-0.43	0.13	-0.43	0.45	163.67	0.52
200.00	1.00	199.22	199.99	-1.69	-0.03	-1.69	1.69	181.12	0.65
300.00	1.21	174.26	299.97	-3.56	-0.21	-3.56	3.57	183.43	0.52
400.00	1.38	185.23	399.95	-5.82	-0.22	-5.82	5.82	182.14	0.30
500.00	1.71	204.05	499.91	-8.38	-0.94	-8.38	8.43	186.37	0.60
600.00	1.64	174.02	599.87	-11.17	-1.39	-11.17	11.25	187.12	0.87
700.00	1.73	191.12	699.83	-14.08	-1.54	-14.08	14.16	186.23	0.51
800.00	1.60	200.64	799.78	-16.86	-2.32	-16.86	17.02	187.83	0.31
900.00	1.94	201.62	899.74	-19.74	-3.44	-19.74	20.04	189.87	0.35
1000.00	1.50	217.28	999.69	-22.36	-4.85	-22.36	22.88	192.24	0.64
1100.00	1.80	218.37	1099.65	-24.63	-6.62	-24.63	25.50	195.04	0.30
1200.00	1.01	230.34	1199.62	-26.42	-8.27	-26.42	27.68	197.38	0.84
1300.00	0.54	255.58	1299.61	-27.10	-9.40	-27.10	28.68	199.14	0.57
1400.00	0.47	271.18	1399.61	-27.21	-10.27	-27.21	29.08	200.68	0.15
1500.00	0.13	348.05	1499.61	-27.09	-10.71	-27.09	29.12	201.57	0.46
1600.00	0.59	238.47	1599.60	-27.24	-11.17	-27.24	29.44	202.29	0.64
1700.00	0.58	276.14	1699.60	-27.45	-12.11	-27.45	30.00	203.79	0.38
1800.00	0.56	285.93	1799.59	-27.27	-13.07	-27.27	30.24	205.62	0.10

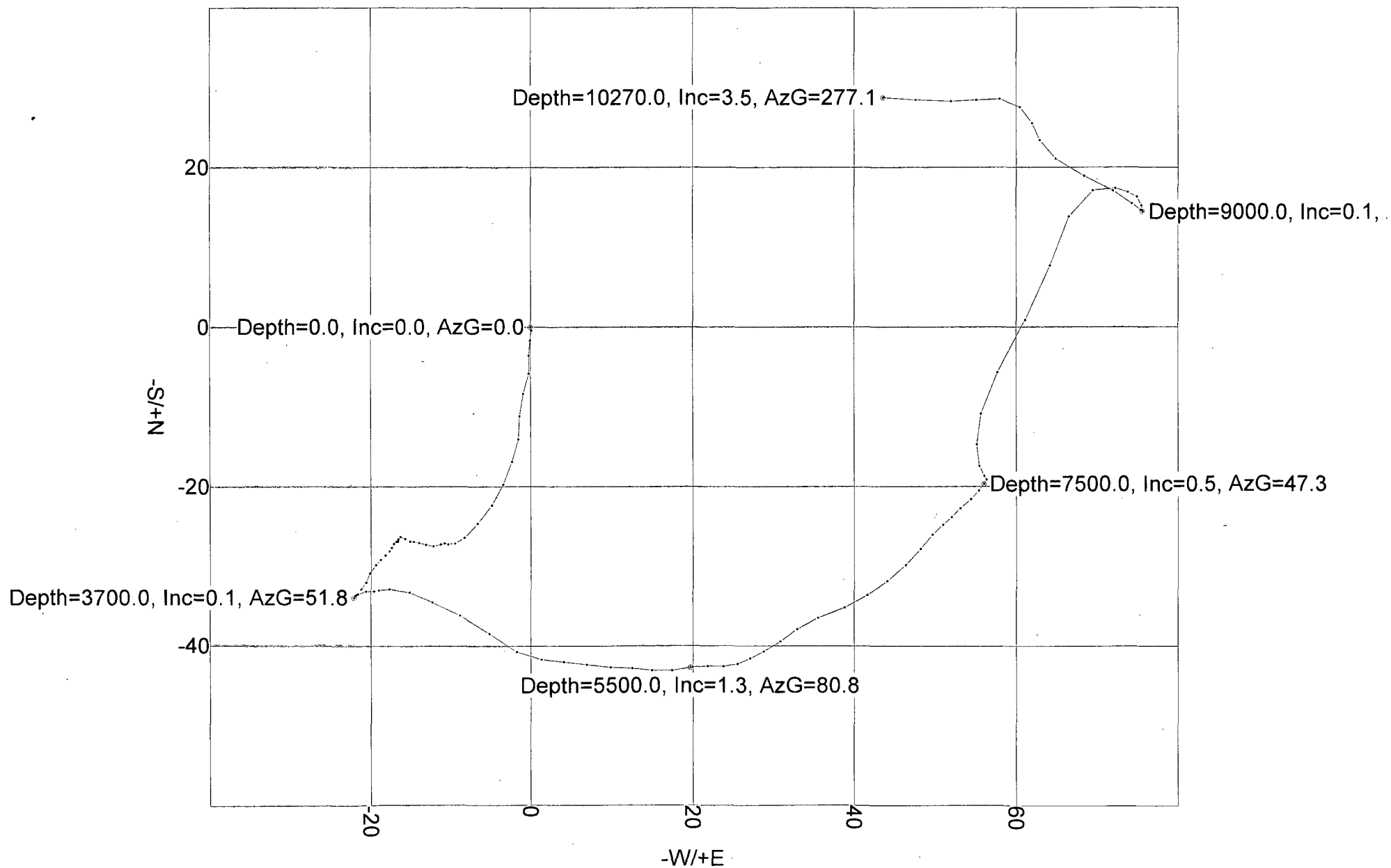
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.51	285.64	1899.59	-27.01	-13.97	-27.01	30.41	207.34	0.05
2000.00	0.30	270.97	1999.59	-26.89	-14.65	-26.89	30.62	208.59	0.23
2100.00	0.23	282.27	2099.59	-26.84	-15.11	-26.84	30.80	209.38	0.08
2200.00	0.56	306.09	2199.58	-26.51	-15.71	-26.51	30.81	210.65	0.36
2300.00	0.23	254.56	2299.58	-26.27	-16.30	-26.27	30.92	211.82	0.46
2400.00	0.28	200.99	2399.58	-26.55	-16.58	-26.55	31.30	211.98	0.23
2500.00	0.09	156.68	2499.58	-26.86	-16.63	-26.86	31.59	211.77	0.23
2600.00	0.25	279.53	2599.58	-26.89	-16.82	-26.89	31.72	212.02	0.31
2700.00	0.38	201.15	2699.58	-27.16	-17.15	-27.16	32.13	212.27	0.41
2800.00	0.25	213.59	2799.58	-27.65	-17.39	-27.65	32.67	212.17	0.15
2900.00	0.34	209.64	2899.58	-28.10	-17.66	-28.10	33.19	212.16	0.10
3000.00	0.51	240.24	2999.57	-28.57	-18.19	-28.57	33.87	212.48	0.27
3100.00	0.47	209.15	3099.57	-29.15	-18.77	-29.15	34.67	212.78	0.26
3200.00	0.57	232.73	3199.57	-29.81	-19.37	-29.81	35.55	213.02	0.24
3300.00	0.94	205.47	3299.56	-30.85	-20.12	-30.85	36.84	213.11	0.51
3400.00	0.49	198.47	3399.55	-32.00	-20.61	-32.00	38.07	212.79	0.46
3500.00	0.70	224.95	3499.54	-32.84	-21.18	-32.84	39.08	212.82	0.34
3600.00	0.49	216.12	3599.54	-33.62	-21.87	-33.62	40.10	213.04	0.23
3700.00	0.08	51.79	3699.54	-33.92	-22.06	-33.92	40.47	213.04	0.57
3800.00	0.64	43.91	3799.54	-33.48	-21.62	-33.48	39.85	212.86	0.56
3900.00	0.74	94.84	3899.53	-33.13	-20.59	-33.13	39.01	211.86	0.60
4000.00	0.43	76.74	3999.52	-33.10	-19.58	-33.10	38.46	210.60	0.36
4100.00	0.25	80.43	4099.52	-32.98	-18.99	-32.98	38.05	209.94	0.18
4200.00	1.24	84.95	4199.51	-32.84	-17.70	-32.84	37.31	208.32	0.99
4300.00	1.77	108.08	4299.48	-33.23	-15.15	-33.23	36.52	204.50	0.80
4400.00	1.92	117.65	4399.43	-34.49	-12.19	-34.49	36.58	199.47	0.34
4500.00	2.43	114.34	4499.35	-36.14	-8.77	-36.14	37.19	193.65	0.52
4600.00	2.54	130.28	4599.26	-38.44	-5.15	-38.44	38.79	187.64	0.70
4700.00	2.20	115.62	4699.18	-40.70	-1.74	-40.70	40.74	182.44	0.69
4800.00	1.54	97.01	4799.12	-41.70	1.33	-41.70	41.72	178.18	0.89
4900.00	1.64	95.07	4899.09	-41.99	4.09	-41.99	42.19	174.44	0.11
5000.00	1.59	99.17	4999.05	-42.33	6.89	-42.33	42.89	170.76	0.13
5100.00	1.78	94.79	5099.00	-42.69	9.81	-42.69	43.80	167.06	0.23
5200.00	1.30	90.41	5198.97	-42.82	12.50	-42.82	44.61	163.73	0.49
5300.00	1.53	100.68	5298.94	-43.08	14.94	-43.08	45.60	160.87	0.34
5400.00	1.37	79.37	5398.90	-43.11	17.42	-43.11	46.49	157.99	0.56
5500.00	1.27	80.78	5498.88	-42.71	19.69	-42.71	47.03	155.25	0.11
5600.00	1.19	91.14	5598.85	-42.55	21.81	-42.55	47.82	152.86	0.23
5700.00	1.08	91.55	5698.84	-42.60	23.79	-42.60	48.79	150.82	0.11

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	1.01	66.30	5798.82	-42.27	25.54	-42.27	49.39	148.85	0.46
5900.00	0.96	67.14	5898.80	-41.59	27.12	-41.59	49.65	146.89	0.06
6000.00	1.26	58.34	5998.79	-40.69	28.83	-40.69	49.87	144.68	0.35
6100.00	1.52	59.80	6098.76	-39.44	30.91	-39.44	50.11	141.91	0.27
6200.00	1.46	45.69	6198.72	-37.88	32.97	-37.88	50.22	138.96	0.37
6300.00	2.00	72.49	6298.68	-36.47	35.55	-36.47	50.93	135.73	0.96
6400.00	2.04	64.40	6398.62	-35.18	38.81	-35.18	52.38	132.19	0.29
6500.00	1.70	56.01	6498.56	-33.58	41.65	-33.58	53.50	128.88	0.43
6600.00	1.72	52.56	6598.52	-31.84	44.07	-31.84	54.37	125.85	0.10
6700.00	1.76	43.63	6698.47	-29.82	46.32	-29.82	55.08	122.77	0.27
6800.00	1.38	41.29	6798.43	-27.80	48.17	-27.80	55.62	119.99	0.39
6900.00	1.22	36.44	6898.41	-26.04	49.60	-26.04	56.02	117.70	0.19
7000.00	0.90	58.27	6998.39	-24.77	50.90	-24.77	56.61	115.95	0.51
7100.00	0.77	36.32	7098.38	-23.82	51.96	-23.82	57.16	114.62	0.34
7200.00	1.02	51.34	7198.37	-22.72	53.06	-22.72	57.72	113.18	0.35
7300.00	0.99	47.96	7298.35	-21.59	54.39	-21.59	58.52	111.65	0.07
7400.00	0.69	32.26	7398.34	-20.50	55.35	-20.50	59.03	110.32	0.37
7500.00	0.51	47.31	7498.34	-19.68	56.01	-19.68	59.37	109.36	0.24
7600.00	0.28	354.92	7598.34	-19.14	56.31	-19.14	59.48	108.77	0.41
7700.00	0.41	313.30	7698.33	-18.65	56.03	-18.65	59.06	108.41	0.27
7800.00	1.20	340.55	7798.32	-17.42	55.43	-17.42	58.10	107.45	0.86
7900.00	1.97	0.59	7898.29	-14.71	55.10	-14.71	57.03	104.95	0.94
8000.00	2.51	13.32	7998.21	-10.86	55.62	-10.86	56.67	101.05	0.73
8100.00	3.91	27.03	8098.05	-5.69	57.67	-5.69	57.95	95.64	1.59
8200.00	4.57	28.10	8197.78	0.86	61.10	0.86	61.11	89.20	0.66
8300.00	4.07	19.94	8297.49	7.71	64.18	7.71	64.65	83.15	0.79
8400.00	3.47	22.39	8397.28	13.84	66.55	13.84	67.97	78.25	0.62
8500.00	2.18	76.21	8497.17	17.09	69.55	17.09	71.62	76.19	2.80
8600.00	1.06	100.70	8597.13	17.38	72.31	17.38	74.37	76.49	1.30
8700.00	0.82	116.59	8697.12	16.88	73.85	16.88	75.76	77.12	0.35
8800.00	0.64	119.55	8797.11	16.29	74.98	16.29	76.73	77.74	0.18
8900.00	0.89	175.83	8897.10	15.24	75.52	15.24	77.04	78.59	0.76
9000.00	0.13	94.43	8997.10	14.45	75.69	14.45	77.05	79.19	0.88
9100.00	0.50	300.73	9097.09	14.67	75.42	14.67	76.84	79.00	0.61
9200.00	1.05	309.70	9197.08	15.47	74.35	15.47	75.94	78.24	0.57
9300.00	2.20	302.00	9297.04	17.08	72.01	17.08	74.01	76.66	1.17
9400.00	2.47	292.09	9396.96	18.90	68.39	18.90	70.96	74.55	0.48
9500.00	2.33	311.76	9496.87	21.06	64.88	21.06	68.22	72.01	0.83
9600.00	1.21	334.96	9596.83	23.37	62.92	23.37	67.12	69.62	1.31

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
9700.00	1.47	337.76	9696.80	25.51	61.99	25.51	67.03	67.63	0.27
9800.00	1.51	308.89	9796.77	27.53	60.48	27.53	66.45	65.53	0.74
9900.00	1.72	277.49	9896.73	28.55	57.97	28.55	64.61	63.78	0.90
10000.00	1.68	257.37	9996.69	28.42	55.05	28.42	61.95	62.69	0.60
10100.00	1.96	274.76	10096.64	28.25	51.91	28.25	59.10	61.45	0.62
10200.00	3.05	270.89	10196.54	28.43	47.55	28.43	55.40	59.13	1.09
10270.00	3.50	277.09	10266.42	28.72	43.57	28.72	52.19	56.61	0.82



VES Survey International
West Texas
(432) 563-5444
Surveyor: Jordan Shelleby
Gadwall 35 Federal 5H / API 30-025-42291



V.E.S. Survey Date: 1/8/2015

HOBBS OCD

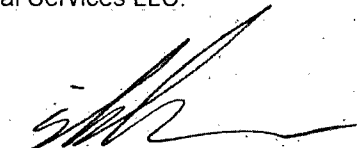
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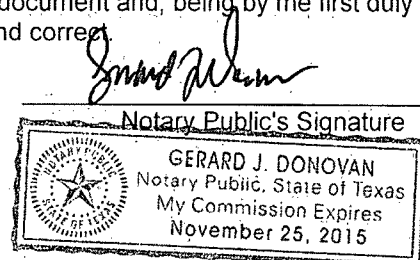
State of New Mexico
County of Lea

I, Michael Baber, certify that: I am employed by Terra Directional Services LLC; that I did on the day(s) of 01/08/2015 through 01/16/2015 conduct or supervise the taking of a MWD survey from a depth of 10336 feet to a depth 15438 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Terra Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho Oil & Gas for the Gadwall 35 Federal 5H Well API 30-025-42291 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Terra Directional Services LLC.


Michael Baber
MWD Operations Manager

State of Texas
County of MONTGOMERY

Before me, a notary public, on this day personally appeared MICHAEL BABER, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statements therein contained are true and correct.



MAR 17 2015 1/16/2015



RECEIVED

Customer Name: COG Operating, LLC.

Well Name: Gadwall 35 Federal 5H

API Number: 30-025-42291

County / Parish: Intersection of CR1 an

M.W.D. Operator: Stacy Ogle

Directional Driller: Benny Kimbrell

Total Magnetic Correction: 6.81

Job #: NM-502

Vertical Section: 359.71

Tie In Survey(s) Provided By:

VES

	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	10270.00	3.50	277.90	10266.40	28.48	28.70	43.50	52.19	56.61	0.82
1	10336.00	3.20	282.30	10332.29	29.17	29.37	39.70	49.39	53.51	0.60
2	10391.00	2.50	290.80	10387.22	29.93	30.12	37.08	47.78	50.91	1.48
3	10423.00	5.00	328.20	10419.15	31.37	31.56	35.70	47.64	48.52	10.54
4	10454.00	6.20	342.50	10450.01	34.13	34.30	34.48	48.64	45.15	5.91
5	10486.00	8.40	339.50	10481.74	37.97	38.14	33.14	50.53	40.99	6.98
6	10517.00	10.50	336.90	10512.32	42.70	42.86	31.24	53.04	36.09	6.91
7	10549.00	14.20	341.70	10543.58	49.12	49.27	28.86	57.10	30.36	11.99
8	10580.00	18.20	346.30	10573.34	57.45	57.59	26.52	63.40	24.73	13.54
9	10612.00	22.30	347.80	10603.36	68.26	68.38	24.05	72.49	19.38	12.91
10	10644.00	25.70	352.30	10632.59	81.08	81.20	21.84	84.08	15.06	12.06
11	10675.00	29.40	353.50	10660.07	95.32	95.42	20.08	97.51	11.88	12.07
12	10707.00	32.40	355.40	10687.52	111.68	111.78	18.50	113.30	9.40	9.86
13	10738.00	35.90	356.80	10713.18	129.04	129.13	17.33	130.29	7.64	11.57
14	10770.00	39.60	357.10	10738.47	148.61	148.69	16.29	149.58	6.25	11.58
15	10801.00	43.50	355.40	10761.67	169.13	169.20	14.93	169.86	5.04	13.09
16	10832.00	43.30	354.20	10784.19	190.35	190.42	13.00	190.86	3.91	2.74
17	10864.00	44.50	353.70	10807.25	212.42	212.48	10.66	212.75	2.87	3.90
18	10896.00	47.00	354.30	10829.58	235.23	235.28	8.27	235.42	2.01	7.93
19	10927.00	50.70	354.20	10849.97	258.46	258.50	5.93	258.56	1.31	11.94
20	10959.00	54.90	355.50	10869.32	283.85	283.88	3.65	283.90	0.74	13.52
21	10990.00	59.40	355.90	10886.13	309.83	309.84	1.70	309.84	0.31	14.56
22	11022.00	64.20	355.50	10901.25	337.95	337.95	-0.42	337.95	359.93	15.04
23	11053.00	68.80	356.80	10913.60	366.32	366.31	-2.32	366.32	359.64	15.33
24	11085.00	73.50	357.00	10923.94	396.56	396.54	-3.96	396.56	359.43	14.70
25	11107.00	75.40	357.80	10929.84	417.73	417.71	-4.92	417.74	359.33	9.32
26	11138.00	77.50	359.00	10937.10	447.86	447.84	-5.76	447.87	359.26	7.75
27	11170.00	79.10	359.10	10943.59	479.19	479.17	-6.28	479.21	359.25	5.01
28	11202.00	80.80	359.20	10949.17	510.70	510.67	-6.74	510.71	359.24	5.32
29	11233.00	82.20	358.50	10953.76	541.35	541.32	-7.36	541.37	359.22	5.04
31	11265.00	83.10	358.40	10957.85	573.08	573.05	-8.22	573.11	359.18	2.83
32	11297.00	83.60	357.60	10961.56	604.85	604.81	-9.33	604.88	359.12	2.93
33	11328.00	84.80	357.70	10964.69	635.67	635.63	-10.59	635.72	359.05	3.88
34	11360.00	86.10	357.50	10967.23	667.55	667.50	-11.93	667.60	358.98	4.11
35	11391.00	87.20	357.00	10969.04	698.47	698.41	-13.41	698.54	358.90	3.90
36	11423.00	88.40	357.10	10970.27	730.41	730.34	-15.06	730.50	358.82	3.76
37	11517.00	91.20	357.30	10970.59	824.31	824.22	-19.65	824.45	358.63	2.99
38	11612.00	92.00	357.10	10967.94	919.18	919.07	-24.29	919.39	358.49	0.87
39	11706.00	92.40	357.00	10964.33	1013.01	1012.87	-29.12	1013.29	358.35	0.44
40	11801.00	92.20	357.70	10960.52	1107.85	1107.70	-33.51	1108.20	358.27	0.77
41	11895.00	91.40	358.70	10957.57	1201.77	1201.60	-36.46	1202.15	358.26	1.36
42	11990.00	91.60	358.80	10955.08	1296.72	1296.55	-38.53	1297.12	358.30	0.24
43	12084.00	92.00	359.70	10952.13	1390.67	1390.49	-39.76	1391.06	358.36	1.05
44	12179.00	92.50	0.30	10948.40	1485.60	1485.42	-39.76	1485.95	358.47	0.82
45	12275.00	93.20	0.00	10943.63	1581.48	1581.30	-39.51	1581.79	358.57	0.79

46	12368.00	92.70	0.40	10938.84	1674.35	1674.17	-39.19	1674.63	358.66	0.69
47	12463.00	91.50	0.70	10935.36	1769.27	1769.10	-38.28	1769.52	358.76	1.30
48	12557.00	90.30	1.10	10933.88	1863.24	1863.08	-36.80	1863.44	358.87	1.35
49	12651.00	90.70	0.70	10933.06	1957.22	1957.06	-35.32	1957.38	358.97	0.60
50	12746.00	90.30	0.90	10932.23	2052.19	2052.05	-34.00	2052.33	359.05	0.47
51	12840.00	91.10	0.90	10931.08	2146.17	2146.03	-32.52	2146.28	359.13	0.85
52	12935.00	90.60	0.80	10929.67	2241.14	2241.01	-31.11	2241.22	359.20	0.54
53	13029.00	91.00	0.40	10928.36	2335.12	2334.99	-30.13	2335.19	359.26	0.60
54	13124.00	90.50	0.50	10927.12	2430.10	2429.98	-29.38	2430.16	359.31	0.54
55	13219.00	90.70	359.70	10926.12	2525.09	2524.98	-29.21	2525.14	359.34	0.87
56	13313.00	89.40	359.70	10926.04	2619.09	2618.97	-29.71	2619.14	359.35	1.38
57	13408.00	89.50	359.40	10926.95	2714.08	2713.96	-30.45	2714.14	359.36	0.33
58	13503.00	89.80	358.90	10927.53	2809.08	2808.95	-31.86	2809.13	359.35	0.61
59	13598.00	89.70	358.40	10927.95	2904.06	2903.92	-34.10	2904.12	359.33	0.54
60	13693.00	89.90	357.80	10928.28	2999.02	2998.87	-37.25	2999.10	359.29	0.67
61	13787.00	90.30	357.80	10928.12	3092.97	3092.80	-40.86	3093.07	359.24	0.43
62	13901.00	90.90	357.70	10926.92	3206.90	3206.71	-45.33	3207.03	359.19	0.53
63	13995.00	91.50	357.30	10924.95	3300.80	3300.60	-49.43	3300.97	359.14	0.77
64	14090.00	92.80	356.90	10921.39	3395.64	3395.41	-54.24	3395.84	359.08	1.43
65	14185.00	92.60	356.70	10916.91	3490.41	3490.15	-59.53	3490.66	359.02	0.30
66	14279.00	92.20	357.40	10912.98	3584.22	3583.94	-64.37	3584.52	358.97	0.86
67	14374.00	92.20	356.70	10909.33	3679.05	3678.75	-69.25	3679.40	358.92	0.74
68	14469.00	91.20	357.20	10906.51	3773.90	3773.57	-74.30	3774.30	358.87	1.18
69	14563.00	88.40	358.60	10906.84	3867.84	3867.49	-77.75	3868.28	358.85	3.33
70	14658.00	89.50	358.70	10908.58	3962.81	3962.45	-79.99	3963.26	358.84	1.16
71	14753.00	89.80	0.60	10909.16	4057.80	4057.44	-80.57	4058.24	358.86	2.02
72	14847.00	91.30	0.70	10908.26	4151.78	4151.43	-79.50	4152.19	358.90	1.60
73	14941.00	90.90	0.90	10906.46	4245.74	4245.40	-78.19	4246.12	358.94	0.48
74	15036.00	92.60	0.70	10903.55	4340.68	4340.35	-76.86	4341.03	358.99	1.80
75	15130.00	92.80	0.30	10899.13	4434.57	4434.24	-76.04	4434.89	359.02	0.48
76	15225.00	90.10	0.30	10896.72	4529.52	4529.20	-75.55	4529.83	359.04	2.84
77	15319.00	88.30	359.80	10898.04	4623.51	4623.18	-75.46	4623.80	359.06	1.99
78	15386.00	89.20	359.10	10899.50	4690.49	4690.16	-76.11	4690.78	359.07	1.70
PTB	15438.00	89.20	359.10	10900.22	4742.48	4742.15	-76.92	4742.78	359.07	0.00

