



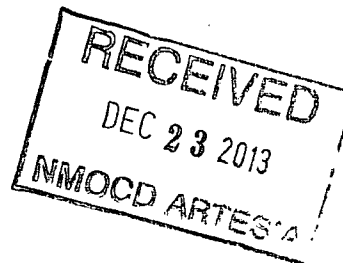
A GYRO TECHNOLOGIES INC. COMPANY

PO Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

15-40646

February 22, 2013

COG Operating LLC (Concho)
One Concho Center
600 W. Illinois Avenue
Midland, TX 79701



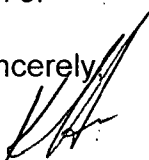
Attn: Kanicia Castillo

Re: **GJ West Coop Unit No 293H**

Please find enclosed a copy of the survey from 0' to 3,875' ran on the above referenced well.

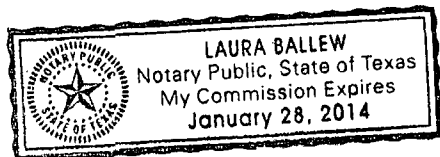
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

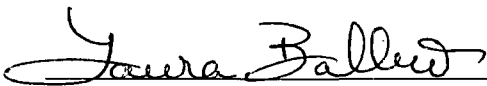
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 22nd day of February A.D., 2013, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas

Company: COG Operating LLC (Concho)

Lease/Well: GJ West Coop Unit/No 293H



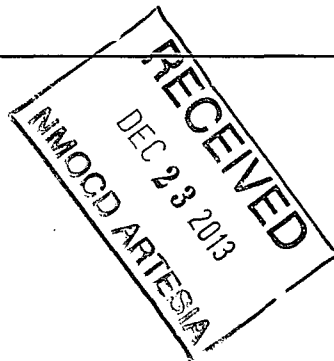
Rig Name: JW 2

State/County: New Mexico/Eddy

Latitude: 32.90, Longitude: -104.07

GRID North is 0.14 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB=18

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: survey.ut

Minimum Curvature Method

Report Date/Time: 2/22/2013 / 14:43

Vaughn Energy Services

432-563-5444

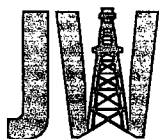
Gardendale, Texas

Surveyor: Kyle Willis

GJ West Coop Unit No 293H / API 30-015-40646

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	0.77	70.71	100.00	0.22	0.63	0.22	0.67	70.71	0.77
200.00	1.36	27.38	199.98	1.50	1.81	1.50	2.35	50.35	0.96
300.00	1.83	30.33	299.94	3.94	3.16	3.94	5.05	38.79	0.47
400.00	1.74	30.60	399.89	6.62	4.74	6.62	8.15	35.61	0.09
500.00	1.97	35.17	499.84	9.34	6.51	9.34	11.38	34.88	0.27
600.00	1.59	36.15	599.79	11.86	8.32	11.86	14.49	35.03	0.38
700.00	1.29	49.56	699.76	13.71	9.99	13.71	16.97	36.08	0.45
800.00	1.13	43.12	799.74	15.17	11.52	15.17	19.05	37.23	0.21
900.00	0.93	30.06	899.72	16.59	12.61	16.59	20.83	37.23	0.31
1000.00	0.97	31.51	999.71	18.01	13.45	18.01	22.48	36.76	0.05
1100.00	0.86	33.63	1099.70	19.36	14.31	19.36	24.07	36.48	0.11
1200.00	0.65	27.48	1199.69	20.49	14.99	20.49	25.38	36.19	0.22
1300.00	0.73	24.88	1299.68	21.57	15.52	21.57	26.58	35.74	0.09
1400.00	0.83	17.48	1399.67	22.85	16.01	22.85	27.90	35.02	0.14
1500.00	0.80	31.15	1499.66	24.14	16.59	24.14	29.29	34.50	0.20
1600.00	1.04	21.58	1599.65	25.58	17.28	25.58	30.87	34.05	0.29
1700.00	0.95	352.38	1699.63	27.24	17.51	27.24	32.38	32.73	0.51
1800.00	1.17	345.17	1799.62	29.04	17.14	29.04	33.72	30.54	0.26

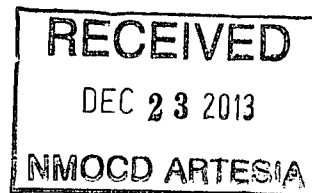
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	1.04	17.69	1899.60	30.89	17.15	30.89	35.33	29.04	0.63
2000.00	1.13	13.56	1999.58	32.71	17.66	32.71	37.17	28.36	0.12
2100.00	1.29	11.40	2099.56	34.77	18.11	34.77	39.20	27.51	0.16
2200.00	1.64	7.81	2199.53	37.29	18.52	37.29	41.63	26.42	0.36
2300.00	1.39	358.56	2299.49	39.92	18.69	39.92	44.07	25.09	0.35
2400.00	1.42	1.39	2399.46	42.37	18.69	42.37	46.31	23.80	0.08
2500.00	1.07	352.48	2499.44	44.53	18.60	44.53	48.26	22.67	0.40
2600.00	1.15	358.79	2599.42	46.45	18.45	46.45	49.98	21.67	0.14
2700.00	1.11	353.78	2699.40	48.42	18.33	48.42	51.77	20.73	0.10
2800.00	1.09	354.65	2799.38	50.33	18.13	50.33	53.50	19.81	0.03
2900.00	1.03	346.05	2899.36	52.15	17.83	52.15	55.11	18.87	0.17
3000.00	0.82	346.23	2999.35	53.72	17.44	53.72	56.48	17.99	0.20
3100.00	0.92	349.48	3099.34	55.20	17.12	55.20	57.80	17.23	0.11
3200.00	0.62	341.73	3199.33	56.51	16.81	56.51	58.96	16.56	0.31
3300.00	0.66	11.59	3299.32	57.59	16.75	57.59	59.97	16.22	0.33
3400.00	0.59	354.65	3399.32	58.66	16.82	58.66	61.02	16.00	0.20
3500.00	0.86	6.69	3499.31	59.91	16.86	59.91	62.24	15.72	0.31
3600.00	0.81	331.99	3599.30	61.28	16.61	61.28	63.49	15.17	0.50
3700.00	0.81	358.11	3699.29	62.61	16.26	62.61	64.69	14.56	0.37
3800.00	1.01	345.62	3799.28	64.17	16.01	64.17	66.14	14.01	0.28
3875.00	0.85	340.50	3874.27	65.33	15.67	65.33	67.19	13.48	0.24



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 Artesia, New Mexico 88211-0160 Office (575) 748-8704 Fax (575) 748-8719

February 18, 2013



COG Operating, LLC
One Concho Center 600 W. Illinois Ave
Midland, Texas 79701

Re: GJ West Coop Unit # 293 H
Sec. 27, T-17-S, R-29-E
Eddy County, New Mexico

Attn: Jim Evans

The following is a Deviation Survey on the referenced well in Eddy County, New Mexico:

281' - 1.75°	1613' - 0.25°	2829' - 0.5°
413' - 1°	2018' - 1°	3296' - 0.75°
894' - 0.5°	2298' - 1°	3609' - 0.25°
1283' - 0.5°	2549' - 0.5°	

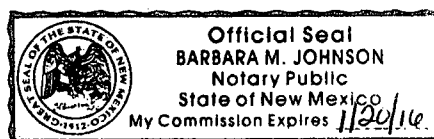
Sincerely,

Gary W. Chappell
Contracts Manager

STATE OF NEW MEXICO)
COUNTY OF EDDY)

The foregoing was acknowledged before me this 18th day of February, 2013 by Gary W. Chappell.

NOTARY PUBLIC



HALLIBURTON

3950 Interwood S. Parkway • Houston, TX 77032

PHONE 281.986.4400 • FAX 281.986.4499

State of New Mexico, Eddy County

I, Jeffrey Moriarty, certify that I am employed by Halliburton Energy Services, Inc. (aka Sperry Drilling Services) and that on the dates of 11 February-13 through 24-February-13, I did conduct or supervise the taking of DWD directional surveys for the COG GJ W Coop Unit 293H well from a depth of 3906' MD to a depth of 10198' MD. This data is true, correct, complete and within the limitations of the tools as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling). I am authorized and qualified to make this report and these surveys were conducted at the request of EOG Resources, Inc. for the COG GJ W Coop Unit 293H, API No. 30-015-40646-0000 in Eddy County, NM. I have reviewed this report and find that it conforms to the principles and procedures as set forth by Halliburton Energy Services, Inc. (aka Sperry Drilling Services).



Field Engineer

COG Operating LLC.

COG GJ W Coop 293H

Eddy Co., NM

JW Rig #2

API# 30-015-40646-0000

February 11, 2013 To February 24, 2013

HD-MJ-0900168143

Sperry Drilling

MWD SURVEY Report

Submitted by Jeffrey Moriarty

3950 Interwood S. Pkwy

Houston, TX 77032

Ph: 281.986.4400

HALLIBURTON

**Drilling and Formation
Evaluation**



Survey Report for COG Operating LLC.

Rig : JW Rig 2
Well Name : COG GJ W Coop Unit 293H
Field Name : CR 212
Country : USA
Job Number : HD-XX-0900168143
Job Start Date : 12-Feb-13
API Number : 30-015-40646-0000



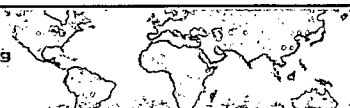
TABLE OF CONTENTS

1. General Information
2. Directional Survey Data



GENERAL INFORMATION

Company	: COG Operating LLC.
Rig	: JW Rig 2
Well	: COG GJ W Coop Unit 293H
Field	: CR 212
State	: New Mexico
County	: Eddy County, NM
Country	: USA
API Number	: 30-015-40646-0000
Sperry Drilling Job Number	: HD-XX-0900168143
Job Start Date	: 12-Feb-13
Job End Date	: 24-Feb-13
North Reference	: Grid
Total Correction (deg)	: 7.621
Dip Angle (deg)	: 60.559
Total Magnetic Field (nT)	: 48746
Date of Magnetic Data	: 12 February, 2013
Well Head coordinates N	: 32 deg. 48 min 12.72 sec North
Well Head coordinates E	: 104 deg. 4 min 2.96 sec West
Vertical section direction (deg)	: 267.39
Unit Number	: 11537096
MWD Engineers	: Jeff Moriarty, Jason McRae
Company Representatives	: David Foster
Company Geologist:	:



DIRECTIONAL SURVEY DATA

Tie-in

0.00

0.00

0.00

0.00

0.00 N

0.00 E

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
100.00	0.77	70.71	100.00	0.22 N	0.63 E	-0.64	0.77
200.00	1.36	27.38	199.98	1.50 N	1.81 E	-1.88	0.96
300.00	1.83	30.33	299.94	3.93 N	3.17 E	-3.34	0.48
400.00	1.74	30.60	399.89	6.61 N	4.75 E	-5.04	0.09
500.00	1.97	35.17	499.84	9.33 N	6.51 E	-6.93	0.27
600.00	1.59	36.15	599.79	11.85 N	8.32 E	-8.85	0.38
700.00	1.29	49.56	699.76	13.70 N	9.99 E	-10.61	0.45
800.00	1.13	43.12	799.74	15.15 N	11.52 E	-12.20	0.21
900.00	0.93	30.06	899.72	16.57 N	12.60 E	-13.34	0.31
1000.00	0.97	31.51	999.71	18.00 N	13.45 E	-14.26	0.05
1100.00	0.86	33.63	1,099.70	19.34 N	14.31 E	-15.18	0.12
1200.00	0.65	27.48	1,199.69	20.47 N	14.99 E	-15.90	0.22
1300.00	0.73	24.88	1,299.68	21.55 N	15.52 E	-16.48	0.09
1400.00	0.83	17.48	1,399.67	22.82 N	16.00 E	-17.03	0.14
1500.00	0.80	31.15	1,499.66	24.11 N	16.58 E	-17.66	0.20
1600.00	1.04	21.58	1,599.65	25.55 N	17.28 E	-18.42	0.28
1700.00	0.95	352.38	1,699.63	27.22 N	17.50 E	-18.72	0.51
1800.00	1.17	345.17	1,799.62	29.03 N	17.13 E	-18.43	0.26
1900.00	1.04	17.69	1,899.60	30.88 N	17.14 E	-18.53	0.63
2000.00	1.13	13.56	1,999.58	32.70 N	17.65 E	-19.12	0.12
2100.00	1.29	11.40	2,099.56	34.76 N	18.10 E	-19.67	0.17
2200.00	1.64	7.81	2,199.53	37.28 N	18.52 E	-20.20	0.36
2300.00	1.39	358.56	2,299.49	39.91 N	18.68 E	-20.48	0.35
2400.00	1.42	1.39	2,399.46	42.37 N	18.68 E	-20.59	0.08
2500.00	1.07	352.48	2,499.44	44.53 N	18.59 E	-20.60	0.40
2600.00	1.15	358.79	2,599.42	46.46 N	18.45 E	-20.55	0.15
2700.00	1.11	353.78	2,699.40	48.43 N	18.32 E	-20.51	0.11
2800.00	1.09	354.65	2,799.38	50.34 N	18.13 E	-20.40	0.03
2900.00	1.03	346.05	2,899.36	52.15 N	17.82 E	-20.18	0.17
3000.00	0.82	346.23	2,999.35	53.72 N	17.44 E	-19.87	0.21
3100.00	0.92	349.48	3,099.34	55.21 N	17.12 E	-19.62	0.11
3200.00	0.62	341.73	3,199.33	56.51 N	16.80 E	-19.36	0.32
3300.00	0.66	11.59	3,299.32	57.59 N	16.75 E	-19.35	0.33
3400.00	0.59	354.65	3,399.32	58.66 N	16.82 E	-19.47	0.20
3500.00	0.86	6.69	3,499.31	59.92 N	16.86 E	-19.57	0.31
3600.00	0.81	331.99	3,599.30	61.29 N	16.61 E	-19.39	0.50
3700.00	0.81	358.11	3,699.29	62.62 N	16.26 E	-19.09	0.37
3800.00	1.01	345.62	3,799.28	64.18 N	16.01 E	-18.92	0.28
3875.00	0.85	340.50	3,874.27	65.35 N	15.67 E	-18.62	0.24
3906.00	0.89	345.79	3,905.26	65.80 N	15.53 E	-18.51	0.30
3938.00	0.75	343.10	3,937.26	66.24 N	15.41 E	-18.41	0.46



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
3969.00	0.97	334.73	3,968.26	66.67 N	15.24 E	18.26	0.81
4016.00	3.33	284.57	4,015.22	67.37 N	13.74 E	16.80	5.98
4048.00	5.09	277.07	4,047.14	67.78 N	11.44 E	-14.51	5.75
4079.00	7.10	272.62	4,077.96	68.04 N	8.16 E	-11.25	6.67
4111.00	10.13	270.69	4,109.60	68.16 N	3.36 E	-6.46	9.50
4142.00	12.17	271.06	4,140.01	68.26 N	2.63 W	-0.48	6.58
4173.00	14.42	269.54	4,170.18	68.29 N	9.76 W	6.64	7.36
4204.00	16.52	268.64	4,200.05	68.15 N	18.03 W	14.90	6.82
4233.00	19.01	269.03	4,227.67	67.97 N	26.87 W	23.75	8.57
4264.00	22.05	269.07	4,256.69	67.79 N	37.74 W	34.61	9.82
4296.00	25.38	270.27	4,285.99	67.73 N	50.61 W	47.47	10.52
4327.00	28.20	270.06	4,313.66	67.77 N	64.58 W	61.43	9.11
4358.00	31.43	270.76	4,340.55	67.88 N	79.99 W	76.82	10.48
4389.00	34.93	270.74	4,366.49	68.10 N	96.96 W	93.75	11.30
4420.00	38.40	270.08	4,391.35	68.23 N	115.47 W	112.24	11.25
4452.00	42.87	269.74	4,415.63	68.20 N	136.30 W	133.05	13.97
4483.00	47.11	269.40	4,437.55	68.03 N	158.21 W	154.95	13.71
4515.00	51.56	269.28	4,458.40	67.75 N	182.47 W	179.20	13.90
4546.00	55.42	269.33	4,476.84	67.45 N	207.38 W	204.10	12.47
4577.00	59.56	269.66	4,493.49	67.22 N	233.52 W	230.22	13.39
4608.00	64.13	269.84	4,508.12	67.10 N	260.84 W	257.52	14.75
4639.00	68.78	269.56	4,520.50	66.95 N	289.26 W	285.91	15.02
4671.00	72.02	269.72	4,531.23	66.76 N	319.40 W	316.03	10.14
4702.00	75.72	268.99	4,539.84	66.42 N	349.17 W	345.78	12.12
4733.00	78.88	267.85	4,546.65	65.58 N	379.39 W	376.01	10.83
4765.00	83.49	267.61	4,551.55	64.33 N	410.98 W	407.63	14.42
4797.00	86.82	266.90	4,554.25	62.80 N	442.83 W	439.51	10.63
4828.00	90.71	265.32	4,554.92	60.70 N	473.74 W	470.49	13.54
4859.00	91.76	264.95	4,554.26	58.08 N	504.62 W	501.46	3.59
4890.00	91.97	264.72	4,553.25	55.29 N	535.48 W	532.41	1.01
4953.00	92.62	264.70	4,550.72	49.48 N	598.16 W	595.29	1.04
5047.00	90.62	265.39	4,548.06	41.37 N	691.77 W	689.17	2.26
5141.00	91.26	265.27	4,546.52	33.72 N	785.44 W	783.09	0.70
5234.00	91.94	264.69	4,543.92	25.58 N	878.05 W	875.97	0.96
5328.00	90.80	265.25	4,541.67	17.34 N	971.66 W	969.86	1.35
5422.00	90.98	267.23	4,540.20	11.18 N	1,065.44 W	1063.83	2.12
5516.00	90.99	267.33	4,538.59	6.72 N	1,159.32 W	1157.81	0.11
5609.00	91.20	267.33	4,536.81	2.39 N	1,252.20 W	1250.79	0.23
5703.00	91.11	267.58	4,534.92	1.79 S	1,346.09 W	1344.78	0.28
5797.00	90.49	267.62	4,533.60	5.73 S	1,440.00 W	1438.77	0.66
5890.00	90.68	267.58	4,532.65	9.63 S	1,532.91 W	1531.76	0.20
5984.00	90.37	266.41	4,531.79	14.56 S	1,626.78 W	1625.75	1.29
6078.00	91.02	265.86	4,530.65	20.90 S	1,720.55 W	1719.72	0.90
6172.00	91.08	266.05	4,528.94	27.53 S	1,814.30 W	1813.68	0.21
6265.00	92.00	266.14	4,526.44	33.86 S	1,907.05 W	1906.62	1.00



DIRECTIONAL SURVEY DATA

Measured Depth (ft)	Inclination (deg)	Direction (deg)	Vertical Depth (ft)	Latitude (ft)	Departure (ft)	Vertical Section (ft)	Dogleg (%/100)
6358.00	90.92	266.30	4,524.06	39.99 S	1,999.82 W	1999.57	1.17
6452.00	91.23	265.99	4,522.29	46.31 S	2,093.59 W	2093.53	0.46
6545.00	91.82	265.72	4,519.82	53.04 S	2,186.31 W	2186.46	0.70
6638.00	91.17	266.55	4,517.39	59.31 S	2,279.07 W	2279.41	1.13
6732.00	91.17	266.47	4,515.47	65.04 S	2,372.87 W	2373.37	0.08
6825.00	91.33	266.66	4,513.45	70.61 S	2,465.68 W	2466.34	0.26
6919.00	90.83	267.68	4,511.68	75.25 S	2,559.55 W	2560.32	1.21
7013.00	90.89	268.11	4,510.26	78.70 S	2,653.48 W	2654.31	0.46
7107.00	90.22	266.66	4,509.35	82.99 S	2,747.37 W	2748.30	1.71
7201.00	90.62	266.55	4,508.67	88.56 S	2,841.20 W	2842.29	0.44
7295.00	90.46	266.72	4,507.79	94.08 S	2,935.04 W	2936.28	0.25
7388.00	90.68	266.94	4,506.86	99.22 S	3,027.89 W	3029.27	0.33
7482.00	90.92	267.02	4,505.55	104.16 S	3,121.75 W	3123.26	0.28
7576.00	91.02	267.17	4,503.95	108.93 S	3,215.62 W	3217.24	0.18
7668.00	91.58	267.69	4,501.87	113.06 S	3,307.50 W	3309.22	0.83
7762.00	90.00	265.56	4,500.58	118.59 S	3,401.32 W	3403.19	2.81
7855.00	90.34	264.91	4,500.30	126.32 S	3,494.00 W	3496.13	0.79
7949.00	90.37	265.73	4,499.72	133.99 S	3,587.68 W	3590.06	0.88
8043.00	91.63	266.17	4,498.08	140.63 S	3,681.43 W	3684.02	1.42
8137.00	92.25	266.41	4,494.89	146.71 S	3,775.18 W	3777.94	0.70
8231.00	92.53	266.72	4,490.97	152.33 S	3,868.93 W	3871.85	0.45
8324.00	91.17	266.55	4,487.97	157.79 S	3,961.72 W	3964.79	1.48
8418.00	91.23	266.38	4,485.99	163.59 S	4,055.52 W	4058.76	0.19
8512.00	91.64	266.05	4,483.64	169.80 S	4,149.28 W	4152.71	0.55
8605.00	90.52	266.78	4,481.89	175.61 S	4,242.08 W	4245.68	1.43
8699.00	91.29	267.22	4,480.40	180.53 S	4,335.94 W	4339.66	0.94
8793.00	91.63	267.26	4,477.99	185.05 S	4,429.80 W	4433.63	0.36
8887.00	90.46	267.73	4,476.28	189.16 S	4,523.69 W	4527.61	1.34
8981.00	90.52	266.33	4,475.47	194.03 S	4,617.56 W	4621.61	1.49
9075.00	90.68	266.35	4,474.48	200.02 S	4,711.36 W	4715.59	0.17
9168.00	91.88	267.02	4,472.40	205.39 S	4,804.18 W	4808.55	1.48
9262.00	90.77	267.14	4,470.23	210.18 S	4,898.03 W	4902.52	1.19
9356.00	90.80	267.07	4,468.94	214.93 S	4,991.91 W	4996.52	0.08
9450.00	90.99	267.19	4,467.48	219.64 S	5,085.78 W	5090.50	0.23
9543.00	90.86	266.73	4,465.98	224.57 S	5,178.63 W	5183.49	0.50
9637.00	91.14	266.73	4,464.33	229.93 S	5,272.47 W	5277.47	0.30
9730.00	91.20	266.43	4,462.43	235.47 S	5,365.28 W	5370.44	0.33
9823.00	91.27	266.51	4,460.43	241.19 S	5,458.08 W	5463.40	0.11
9917.00	91.08	266.26	4,458.51	247.12 S	5,551.88 W	5557.37	0.34
10010.00	91.54	265.97	4,456.39	253.42 S	5,644.64 W	5650.32	0.58
10104.00	91.76	265.82	4,453.68	260.15 S	5,738.36 W	5744.25	0.29
10198.00	91.33	265.46	4,451.15	267.30 S	5,832.05 W	5838.17	0.60
10279.00	91.33	265.46	4,449.28	273.70 S	5,912.78 W	5919.11	0.01

SURVEY FOOTER

SURVEYS CALCULATED USING LONG COLLAR METHOD.

**SURVEY FOOTER**

TIE-ON ASSUMED VERTICAL AT SURFACE.
SURVEYS FROM 100.00'MD TO 3875'MD PROVIDED BY VAUGHN ENERGY SERVICE.
SURVEYS FROM 3906' MD TO 10198' MD PROVIDED BY SPERRY DRILLING SERVICES.
SURVEY 10198'MD IS PROJECTED TO BIT AT 10279'MD.
SPERRY ENGINEERS: J. MORIARTY, J.MCRAE

DIRECTIONAL SURVEY DATA NOTES

- Calculation based on minimum curvature method.
- Survey coordinates relative to well system reference point.
- TVD values given relative to drilling measurement point.
- Vertical section relative to well head.
- Vertical section is computed along a direction of 267.39 degrees (Grid)
- A total correction of 7.62 deg from Magnetic north to Grid north has been applied
- Horizontal displacement is relative to the well head.
- Horizontal displacement (closure) at 10,279.00 feet is 5,919.11 feet along 267.35 degrees (Grid)

WARRANTY

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