



A Schlumberger Company

DIRECTIONAL SURVEY REPORT

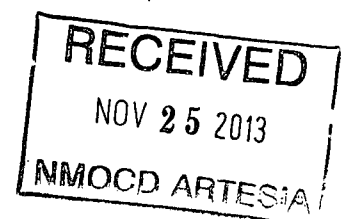
30.015-40947

DEVON ENERGY PRODUCTION CO., L.P.

MIMOSA 24 FEDERAL COM 2H

EDDY COUNTY, NEW MEXICO

PREPARED BY: KIRK DAVIS





A Schlumberger Company

August 21, 2013

Devon Energy
20 N. Broadway
Oklahoma City, OK

RE: DEVON ENERGY PRODUCTION CO., L.P.
MIMOSA 24 FEDERAL COM 2H
EDDY COUNTY, NEW MEXICO
API No: 30-015-40947
Rig: H&P 300
PES File No.: 13MLD0328

Dear Sir or Madam:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
1 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647.

Sincerely,

A handwritten signature in black ink, appearing to be "KD" or "Kirk Davis", written over a horizontal line.

KIRK DAVIS
M/LWD Field Service Manager
Schlumberger Technology Corp.



A Schlumberger Company

**STATE OF TEXAS
MIDLAND COUNTY**

I, **BILL KITCHENS** certify that; I am employed by PathFinder, a Schlumberger company.; that I did on the day(s) of **7/30/13** through **8/11/13** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8626 feet** to a depth of **13561 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder, a Schlumberger company.; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DEVON ENERGY PRODUCTION CO., L.P.** for the **MIMOSA 24 FEDERAL COM 2H** Well API No. **30-015-40947** in **EDDY COUNTY, NEW MEXICO**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PathFinder, a Schlumberger company.

A handwritten signature in black ink, appearing to read "Bill Kitchens", written over a horizontal line.

BILL KITCHENS
Field Engineer



A Schlumberger Company

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SCHLUMBERGER TECHNOLOGY CORP.
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) BILL KITCHENS
B) FREDDY LICERO
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEER)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 7/30/13 TO 8/11/13
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
MIMOSA 24 FEDERAL COM 2H
EDDY COUNTY, NEW MEXICO
API NO.: 30-015-40947
RIG: H&P 300
9. SURVEY CERTIFIED FROM: 8626 TO 13561 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4909.48 FEET ON A BEARING OF 104.06 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 14635.00 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

A handwritten signature in black ink, appearing to be "K. Davis", written over a horizontal line.

KIRK DAVIS
M/LWD Field Service Manager

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 07/31/2013
Date Completed: 08/11/2013

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300
PathFinder Office Supervisor: JOE HOGAN
PathFinder Field Engineers: BILL KITCHENS
 JEFF CORBETT
 FREDDY LICERO

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.39.1.3335 N LON: 103.49.50.7574 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 696018.5300 Y: 600701.7100
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.21 ° EAST TO GRID
Vertical Section Plane: 104.04
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude: 3538.00' Ground To MSL

Measured Depth	14635.00	(feet)
Inclination	89.43	(deg)
Azimuth	89.78	(deg)
True Vertical Depth	9277.84	(feet)
Vertical Section	4909.48	(feet)
Survey X cord	700781.01	(feet)
Survey Y cord	599509.34	(feet)
Survey Lat	32.64703015 N	(deg)
Survey Lon	103.81531179 W	(deg)
Rectangular Corr. N/S	1192.37 S	(feet)
Rectangular Corr. E/W	4762.48 E	(feet)
Closure Distance	4909.48	(feet)
Direction of Closure	104.06	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300
PathFinder Office Supervisor: JOE HOGAN
PathFinder Field Engineers: BILL KITCHENS
JEFF CORBETT
FREDDY LICERO

Survey Calculations by RX5 V6.04D using Minimum Curvature

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.39.1.3335 N LON: 103.49.50.7574 W
GRID Reference: NAD83 new mexico.east Transverse Mercator
Ref GRID Coord: X: 696018.5300 Y: 600701.7100
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.21° EAST TO GRID
Vertical Section Plane: 104.04
Survey Vert. Reference: 26.00' Kelly Bushing To Ground
Altitude: 3538.00' Ground To MSL

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 VAUGHN ENERGY GYRO SURVEYS.										
100.00	0.32	293.52	100.00	0.00	-0.83	0.27 S	0.92 W	0.96@	253.70	0.00
200.00	0.37	293.49	199.99	100.00	-1.42	0.03 S	1.47 W	1.47@	268.88	0.05
300.00	0.31	285.42	299.99	100.00	-2.01	0.17 N	2.03 W	2.04@	274.84	0.08
400.00	0.36	2.86	399.99	100.00	-2.34	0.56 N	2.27 W	2.34@	283.78	0.42
500.00	0.66	314.66	499.99	100.00	-2.90	1.28 N	2.67 W	2.96@	295.57	0.50
600.00	0.31	317.41	599.98	100.00	-3.62	1.88 N	3.26 W	3.76@	299.97	0.35
700.00	0.62	336.07	699.98	100.00	-4.18	2.57 N	3.66 W	4.48@	305.10	0.34
800.00	0.52	284.10	799.98	100.00	-4.96	3.18 N	4.32 W	5.37@	306.33	0.51
900.00	0.08	261.21	899.97	100.00	-5.48	3.28 N	4.83 W	5.84@	304.16	0.45
1000.00	0.43	357.98	999.97	100.00	-5.65	3.64 N	4.91 W	6.12@	306.55	0.45
1100.00	0.58	319.42	1099.97	100.00	-6.17	4.40 N	5.26 W	6.86@	309.95	0.36
1200.00	0.56	313.80	1199.96	100.00	-7.00	5.13 N	5.94 W	7.84@	310.80	0.06
1300.00	0.37	34.99	1299.96	100.00	-7.31	5.73 N	6.11 W	8.37@	313.17	0.62
1400.00	0.28	40.00	1399.96	100.00	-7.09	6.18 N	5.76 W	8.45@	317.00	0.09
1500.00	0.60	41.75	1499.96	100.00	-6.74	6.76 N	5.26 W	8.56@	322.11	0.32
1600.00	1.10	43.51	1599.95	100.00	-6.02	7.84 N	4.25 W	8.92@	331.56	0.50
1700.00	2.05	47.54	1699.91	100.00	-4.57	9.75 N	2.27 W	10.01@	346.90	0.96
1800.00	2.85	51.36	1799.82	100.00	-2.07	12.51 N	0.99 E	12.55@	4.54	0.82
1900.00	2.52	45.56	1899.71	100.00	0.59	15.60 N	4.50 E	16.24@	16.11	0.43
2000.00	2.96	46.44	1999.59	100.00	3.12	18.92 N	7.95 E	20.52@	22.78	0.44
2100.00	3.17	42.26	2099.45	100.00	5.81	22.74 N	11.68 E	25.57@	27.17	0.31
2200.00	3.43	46.61	2199.28	100.00	8.73	26.84 N	15.71 E	31.10@	30.34	0.36
2300.00	3.59	45.87	2299.09	100.00	11.99	31.08 N	20.13 E	37.03@	32.93	0.17
2400.00	3.16	45.97	2398.92	100.00	15.10	35.18 N	24.36 E	42.79@	34.70	0.43
2500.00	2.74	53.28	2498.79	100.00	18.07	38.52 N	28.26 E	47.77@	36.26	0.56

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
2600.00	1.84	46.54	2598.71	100.00	20.44	41.05 N	31.34 E	51.65@	37.36	0.94
2700.00	1.65	43.73	2698.66	100.00	22.02	43.20 N	33.50 E	54.66@	37.79	0.21
2800.00	0.93	43.18	2798.64	100.00	23.13	44.83 N	35.05 E	56.91@	38.02	0.72
2900.00	0.36	315.04	2898.63	100.00	23.25	45.64 N	35.38 E	57.75@	37.78	0.99
3000.00	0.48	197.02	2998.63	100.00	22.96	45.47 N	35.04 E	57.40@	37.62	0.72
3100.00	1.05	139.17	3098.62	100.00	23.69	44.37 N	35.51 E	56.83@	38.67	0.89
3200.00	1.84	137.05	3198.59	100.00	25.78	42.50 N	37.21 E	56.49@	41.20	0.79
3300.00	2.05	134.94	3298.53	100.00	28.67	40.07 N	39.57 E	56.31@	44.64	0.22
3400.00	1.79	147.55	3398.47	100.00	31.33	37.48 N	41.67 E	56.05@	48.03	0.49
3500.00	1.66	147.85	3498.43	100.00	33.51	34.94 N	43.28 E	55.62@	51.09	0.13
3600.00	1.65	142.93	3598.39	100.00	35.68	32.57 N	44.92 E	55.48@	54.06	0.14
3700.00	2.03	145.50	3698.34	100.00	38.12	29.96 N	46.79 E	55.56@	57.37	0.39
3800.00	2.45	158.21	3798.26	100.00	40.70	26.51 N	48.59 E	55.35@	61.38	0.65
3900.00	3.04	171.63	3898.15	100.00	42.97	21.90 N	49.77 E	54.37@	66.24	0.87
4000.00	3.44	181.04	3997.99	100.00	44.65	16.28 N	50.10 E	52.68@	72.00	0.66
4100.00	3.57	165.02	4097.80	100.00	46.84	10.27 N	50.85 E	51.88@	78.58	0.98
4200.00	3.13	150.20	4197.63	100.00	50.24	4.90 N	53.01 E	53.23@	84.72	0.97
4300.00	2.61	157.15	4297.51	100.00	53.50	0.43 N	55.25 E	55.25@	89.55	0.63
4400.00	2.78	152.06	4397.40	100.00	56.48	3.81 S	57.27 E	57.40@	93.81	0.29
4500.00	2.27	155.86	4497.30	100.00	59.33	7.76 S	59.22 E	59.72@	97.47	0.54
4600.00	2.59	144.70	4597.21	100.00	62.27	11.41 S	61.33 E	62.39@	100.54	0.57
4700.00	1.82	133.61	4697.14	100.00	65.36	14.35 S	63.79 E	65.38@	102.68	0.88
4800.00	1.81	117.23	4797.09	100.00	68.28	16.17 S	66.34 E	68.28@	103.70	0.52
4900.00	1.71	120.43	4897.04	100.00	71.25	17.65 S	69.03 E	71.25@	104.34	0.14
5000.00	0.81	108.87	4997.01	100.00	73.39	18.63 S	70.99 E	73.39@	104.71	0.93
5100.00	0.29	132.03	5097.01	100.00	74.32	19.03 S	71.84 E	74.32@	104.84	0.56
5200.00	0.33	186.53	5197.01	100.00	74.58	19.49 S	72.00 E	74.59@	105.14	0.29
5300.00	0.24	262.84	5297.01	100.00	74.42	19.80 S	71.76 E	74.44@	105.42	0.36

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300

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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)
5400.00	0.59	313.66	5397.00	100.00	73.78	19.47 S	71.18 E	73.79@	105.30	0.48
5500.00	0.78	338.43	5497.00	100.00	72.93	18.48 S	70.56 E	72.94@	104.68	0.35
5600.00	0.46	349.21	5596.99	100.00	72.37	17.45 S	70.23 E	72.37@	103.96	0.34
5700.00	0.78	336.10	5696.99	100.00	71.78	16.44 S	69.88 E	71.79@	103.24	0.35
5800.00	0.32	314.97	5796.98	100.00	71.12	15.62 S	69.41 E	71.14@	102.68	0.50
5900.00	0.81	312.11	5896.98	100.00	70.26	14.95 S	68.68 E	70.29@	102.28	0.49
6000.00	0.15	322.38	5996.97	100.00	69.53	14.37 S	68.08 E	69.58@	101.92	0.66
6100.00	0.46	329.73	6096.97	100.00	69.15	13.92 S	67.80 E	69.21@	101.60	0.31
6200.00	0.39	330.45	6196.97	100.00	68.63	13.27 S	67.43 E	68.72@	101.14	0.07
6300.00	0.23	354.68	6296.97	100.00	68.33	12.78 S	67.24 E	68.45@	100.76	0.20
6400.00	0.82	344.54	6396.96	100.00	67.91	11.89 S	67.03 E	68.08@	100.06	0.60
6500.00	0.78	335.61	6496.95	100.00	67.14	10.58 S	66.56 E	67.40@	99.03	0.13
6600.00	0.52	292.41	6596.95	100.00	66.27	9.79 S	65.86 E	66.58@	98.45	0.54
6700.00	0.51	294.88	6696.94	100.00	65.38	9.43 S	65.04 E	65.72@	98.25	0.02
6800.00	1.35	296.70	6796.93	100.00	63.79	8.71 S	63.58 E	64.17@	97.80	0.84
6900.00	1.50	277.75	6896.90	100.00	61.34	8.00 S	61.23 E	61.75@	97.45	0.49
7000.00	1.08	275.85	6996.87	100.00	59.11	7.73 S	59.00 E	59.50@	97.47	0.42
7100.00	1.16	274.10	7096.85	100.00	57.18	7.56 S	57.05 E	57.55@	97.55	0.09
7200.00	0.76	279.77	7196.84	100.00	55.52	7.38 S	55.39 E	55.88@	97.59	0.41
7300.00	0.99	295.54	7296.83	100.00	54.01	6.89 S	53.95 E	54.39@	97.28	0.33
7400.00	0.29	232.93	7396.82	100.00	53.01	6.67 S	52.97 E	53.39@	97.18	0.89
7500.00	0.64	219.80	7496.82	100.00	52.61	7.25 S	52.41 E	52.91@	97.88	0.36
7600.00	0.68	215.92	7596.81	100.00	52.14	8.16 S	51.71 E	52.35@	98.97	0.06
7700.00	1.28	172.76	7696.80	100.00	52.33	9.75 S	51.50 E	52.41@	100.72	0.91
7800.00	1.86	150.52	7796.76	100.00	53.85	12.27 S	52.44 E	53.86@	103.17	0.83
7900.00	2.26	174.78	7896.70	100.00	55.62	15.65 S	53.42 E	55.66@	106.33	0.95
8000.00	2.57	184.97	7996.61	100.00	56.62	19.85 S	53.40 E	56.97@	110.39	0.53
8100.00	2.76	183.94	8096.50	100.00	57.40	24.48 S	53.04 E	58.42@	114.78	0.20

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300

Page 04/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS (dg/100ft)
(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(deg)	(dg/100ft)
8200.00	3.36	187.41	8196.36	100.00	58.16	29.79 S	52.50 E	60.36@	119.57	0.63
8300.00	3.52	190.21	8296.18	100.00	58.70	35.72 S	51.58 E	62.74@	124.70	0.23
8400.00	3.29	194.01	8396.00	100.00	58.91	41.52 S	50.34 E	65.25@	129.52	0.32
8500.00	2.68	195.89	8495.86	100.00	58.83	46.56 S	49.00 E	67.59@	133.53	0.62
** TIED INTO VAUGHN ENERGY GYRO SURVEY AT 8540'MD.										
8540.00	2.66	195.46	8535.82	40.00	58.78	48.35 S	48.50 E	68.48@	134.91	0.07
THE FOLLOWING ARE PATHFINDER MWD SURVEY.										
8626.00	2.55	192.66	8621.73	86.00	58.78	52.14 S	47.55 E	70.57@	137.64	0.20
8658.00	4.66	188.53	8653.67	32.00	58.92	54.12 S	47.20 E	71.81@	138.91	6.64
8689.00	8.53	185.89	8684.46	31.00	59.37	57.65 S	46.78 E	74.24@	140.95	12.52
8721.00	12.31	181.23	8715.92	32.00	60.46	63.43 S	46.46 E	78.62@	143.78	12.09
8752.00	15.48	178.16	8746.01	31.00	62.32	70.87 S	46.52 E	84.77@	146.72	10.50
8784.00	17.59	179.91	8776.69	32.00	64.67	79.97 S	46.67 E	92.59@	149.73	6.77
8815.00	19.61	183.69	8806.07	31.00	66.75	89.85 S	46.34 E	101.10@	152.72	7.59
8847.00	21.37	189.41	8836.05	32.00	68.19	100.96 S	45.04 E	110.55@	155.96	8.32
8878.00	22.95	191.78	8864.76	31.00	68.88	112.45 S	42.88 E	120.35@	159.13	5.86
8910.00	26.12	191.34	8893.86	32.00	69.46	125.47 S	40.22 E	131.76@	162.22	9.92
8941.00	29.19	190.73	8921.32	31.00	70.22	139.59 S	37.47 E	144.53@	164.97	9.95
8973.00	31.48	188.53	8948.94	32.00	71.47	155.52 S	34.78 E	159.36@	167.39	7.95
9004.00	33.41	188.53	8975.10	31.00	73.07	171.97 S	32.31 E	174.98@	169.36	6.23
9036.00	35.96	187.56	9001.41	32.00	74.97	190.00 S	29.77 E	192.32@	171.09	8.15
9067.00	37.81	186.68	9026.20	31.00	77.22	208.46 S	27.47 E	210.26@	172.49	6.21
9098.00	40.36	185.80	9050.26	31.00	79.88	227.89 S	25.35 E	229.29@	173.65	8.42
9130.00	42.74	185.72	9074.21	32.00	82.93	249.00 S	23.22 E	250.08@	174.67	7.44
9161.00	45.90	183.78	9096.38	31.00	86.44	270.58 S	21.44 E	271.43@	175.47	11.09
9193.00	49.59	181.76	9117.90	32.00	91.08	294.24 S	20.30 E	294.94@	176.05	12.44
9224.00	53.46	180.00	9137.18	31.00	96.61	318.50 S	19.94 E	319.12@	176.42	13.25
9256.00	57.16	179.39	9155.39	32.00	103.13	344.80 S	20.08 E	345.39@	176.67	11.67

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
MIMOSA 24 FED COM 2H
EDDY COUNTY, NM
API#: 30-015-40947 Rig: H&P 300

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** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder – a Schlumberger company and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



A GYRO TECHNOLOGIES, INC. COMPANY

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

July 31, 2013



Devon Energy Production Co., L.P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers

Re: **Mimosa 24 Fed Com No. 002H**

Please find enclosed a copy of the survey from 0.00' to 8540.00' 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

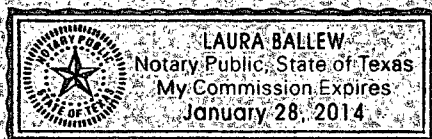
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 31st day of July, A.D. 2013, by Keith Havelka

Laura Ballew
Notary Public, State of Texas





Company: Devon Energy Production Company

Lease/Well: Mimosa 24 Fed Com/No. 002H

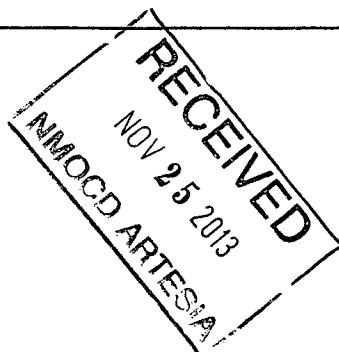
Rig Name: H&P 300

State/County: New Mexico/Eddy

Latitude: 32.65, Longitude: -103.83

GRID North is 0.27 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB = 26 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: mimosa 24 fed com #2h_01.ut

Minimum Curvature Method

Report Date/Time: 7/31/2013 / 11:34

Vaughn Energy Services

Ft.Worth, TX

817-741-3610

Surveyor: Kenny Gabel

Mimosa 24 Fed Com No. 002H / API 30-015-40947

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	0.32	293.52	100.00	0.11	-0.26	0.11	0.28	293.52	0.32
200.00	0.37	293.49	200.00	0.35	-0.81	0.35	0.89	293.51	0.05
300.00	0.31	285.42	300.00	0.56	-1.37	0.56	1.48	292.03	0.08
400.00	0.36	286.02	399.99	0.71	-1.94	0.71	2.06	290.25	0.05
500.00	0.66	314.66	499.99	1.21	-2.65	1.21	2.91	294.48	0.39
600.00	0.31	317.41	599.99	1.81	-3.25	1.81	3.72	299.20	0.35
700.00	0.62	336.07	699.98	2.51	-3.65	2.51	4.43	304.51	0.34
800.00	0.52	284.10	799.98	3.12	-4.31	3.12	5.32	305.86	0.51
900.00	0.08	261.21	899.98	3.22	-4.82	3.22	5.80	303.69	0.44
1000.00	0.43	357.98	999.98	3.58	-4.91	3.58	6.08	306.10	0.45
1100.00	0.58	319.42	1099.97	4.34	-5.25	4.34	6.81	309.57	0.36
1200.00	0.56	313.80	1199.97	5.06	-5.93	5.06	7.79	310.46	0.06
1300.00	0.37	34.99	1299.97	5.66	-6.09	5.66	8.32	312.90	0.62
1400.00	0.28	40.00	1399.96	6.12	-5.75	6.12	8.40	316.77	0.10
1500.00	0.60	41.75	1499.96	6.70	-5.24	6.70	8.51	321.95	0.33
1600.00	1.10	43.51	1599.95	7.79	-4.23	7.79	8.86	331.48	0.49
1700.00	2.05	47.54	1699.91	9.69	-2.25	9.69	9.95	346.93	0.96
1800.00	2.85	51.36	1799.82	12.45	1.01	12.45	12.49	4.64	0.81

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	2.52	45.56	1899.71	15.54	4.52	15.54	16.19	16.22	0.42
2000.00	2.96	46.44	1999.59	18.86	7.96	18.86	20.47	22.89	0.44
2100.00	3.17	42.26	2099.45	22.69	11.69	22.69	25.52	27.27	0.31
2200.00	3.43	46.61	2199.28	26.79	15.73	26.79	31.07	30.42	0.36
2300.00	3.59	45.87	2299.10	31.03	20.15	31.03	37.00	33.00	0.16
2400.00	3.16	45.97	2398.92	35.12	24.38	35.12	42.76	34.77	0.43
2500.00	2.74	53.28	2498.79	38.47	28.28	38.47	47.74	36.32	0.56
2600.00	1.84	46.54	2598.71	41.00	31.35	41.00	51.61	37.41	0.94
2700.00	1.65	43.73	2698.66	43.14	33.51	43.14	54.63	37.84	0.20
2800.00	0.93	43.18	2798.64	44.78	35.07	44.78	56.87	38.07	0.72
2900.00	0.36	315.04	2898.63	45.59	35.40	45.59	57.72	37.83	0.99
3000.00	0.48	197.02	2998.63	45.42	35.05	45.42	57.37	37.66	0.72
3100.00	1.05	139.17	3098.62	44.33	35.53	44.33	56.81	38.72	0.90
3200.00	1.84	137.05	3198.59	42.45	37.23	42.45	56.46	41.25	0.79
3300.00	2.05	134.94	3298.53	40.01	39.59	40.01	56.29	44.70	0.22
3400.00	1.79	147.55	3398.48	37.42	41.70	37.42	56.03	48.09	0.50
3500.00	1.66	147.85	3498.43	34.89	43.31	34.89	55.61	51.15	0.13
3600.00	1.65	142.93	3598.39	32.51	44.94	32.51	55.47	54.12	0.14
3700.00	2.03	145.50	3698.34	29.91	46.81	29.91	55.55	57.43	0.39
3800.00	2.45	158.21	3798.26	26.46	48.61	26.46	55.34	61.43	0.65
3900.00	3.04	171.63	3898.15	21.86	49.79	21.86	54.37	66.30	0.87
4000.00	3.44	181.04	3997.99	16.24	50.12	16.24	52.68	72.05	0.66
4100.00	3.57	165.02	4097.80	10.23	50.87	10.23	51.89	78.63	0.98
4200.00	3.13	150.20	4197.64	4.85	53.03	4.85	53.25	84.77	0.97
4300.00	2.61	157.15	4297.51	0.39	55.27	0.39	55.27	89.60	0.63
4400.00	2.78	152.06	4397.40	-3.85	57.29	-3.85	57.42	93.85	0.30
4500.00	2.27	155.86	4497.30	-7.81	59.24	-7.81	59.75	97.51	0.54
4600.00	2.59	144.70	4597.21	-11.46	61.36	-11.46	62.42	100.58	0.57
4700.00	1.82	133.61	4697.14	-14.40	63.81	-14.40	65.42	102.72	0.88
4800.00	1.81	117.23	4797.09	-16.22	66.37	-16.22	68.32	103.73	0.52
4900.00	1.71	120.43	4897.04	-17.70	69.06	-17.70	71.29	104.37	0.14
5000.00	0.81	108.87	4997.02	-18.68	71.01	-18.68	73.43	104.74	0.93
5100.00	0.29	132.03	5097.01	-19.08	71.87	-19.08	74.36	104.87	0.56
5200.00	0.33	186.53	5197.01	-19.53	72.02	-19.53	74.62	105.17	0.28
5300.00	0.24	262.84	5297.01	-19.83	71.78	-19.83	74.47	105.45	0.36
5400.00	0.59	313.66	5397.01	-19.50	71.20	-19.50	73.83	105.32	0.48
5500.00	0.78	338.43	5497.00	-18.52	70.58	-18.52	72.97	104.70	0.35
5600.00	0.46	349.21	5596.99	-17.48	70.25	-17.48	72.40	103.98	0.34
5700.00	0.78	336.10	5696.99	-16.46	69.90	-16.46	71.81	103.25	0.35

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	0.32	314.97	5796.98	-15.64	69.43	-15.64	71.16	102.69	0.50
5900.00	0.81	312.11	5896.98	-14.97	68.70	-14.97	70.31	102.29	0.48
6000.00	0.15	322.38	5996.97	-14.39	68.10	-14.39	69.60	101.93	0.66
6100.00	0.46	329.73	6096.97	-13.93	67.81	-13.93	69.23	101.61	0.31
6200.00	0.39	330.45	6196.97	-13.29	67.44	-13.29	68.74	101.15	0.07
6300.00	0.23	354.68	6296.97	-12.79	67.26	-12.79	68.46	100.77	0.20
6400.00	0.82	344.54	6396.96	-11.90	67.05	-11.90	68.10	100.07	0.59
6500.00	0.78	335.61	6496.95	-10.59	66.58	-10.59	67.41	99.04	0.13
6600.00	0.52	292.41	6596.95	-9.80	65.87	-9.80	66.60	98.46	0.54
6700.00	0.51	294.88	6696.94	-9.44	65.05	-9.44	65.73	98.25	0.02
6800.00	1.35	296.70	6796.93	-8.72	63.59	-8.72	64.18	97.81	0.84
6900.00	1.50	277.75	6896.90	-8.01	61.24	-8.01	61.76	97.45	0.49
7000.00	1.08	275.85	6996.87	-7.74	59.00	-7.74	59.51	97.47	0.43
7100.00	1.16	274.10	7096.85	-7.57	57.06	-7.57	57.56	97.56	0.09
7200.00	0.76	279.77	7196.84	-7.39	55.39	-7.39	55.88	97.60	0.41
7300.00	0.99	295.54	7296.83	-6.90	53.96	-6.90	54.40	97.29	0.33
7400.00	0.29	232.93	7396.82	-6.69	52.98	-6.69	53.40	97.19	0.89
7500.00	0.64	219.80	7496.82	-7.26	52.42	-7.26	52.92	97.89	0.36
7600.00	0.68	215.92	7596.81	-8.17	51.72	-8.17	52.36	98.98	0.07
7700.00	1.28	172.76	7696.80	-9.76	51.51	-9.76	52.43	100.73	0.91
7800.00	1.86	150.52	7796.76	-12.28	52.45	-12.28	53.86	103.18	0.83
7900.00	2.26	174.78	7896.70	-15.65	53.42	-15.65	55.67	106.33	0.95
8000.00	2.57	184.97	7996.61	-19.84	53.41	-19.84	56.97	110.38	0.53
8100.00	2.76	183.94	8096.50	-24.47	53.05	-24.47	58.42	114.76	0.20
8200.00	3.36	187.41	8196.36	-29.78	52.51	-29.78	60.36	119.56	0.63
8300.00	3.52	190.21	8296.18	-35.71	51.58	-35.71	62.74	124.69	0.23
8400.00	3.29	194.01	8396.00	-41.52	50.34	-41.52	65.26	129.51	0.32
8500.00	2.68	195.89	8495.87	-46.55	49.01	-46.55	67.59	133.53	0.61
8540.00	2.66	195.46	8535.82	-48.35	48.50	-48.35	68.49	134.91	0.08