



Railroad Commission of Texas
Oil and Gas Division
P.O. Box 12967
Capitol Station
Austin, Texas 78711

March 23, 2017


Attn: Pam Johns

Re: Diamondback E&P LLC
Ul Mason West Unit 8LS
Andrews County, Texas
API#: 003-47471

Enclosed, please find the original of the survey performed on the referenced well by SunDrill Energy Services (Operator No. 829286) Supervised by Cameron Stevens. Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
R Gauiter	8LS	0'-1866	3/16/17-3/18/17	MWD

A certified plat on which the bottom-hole location is oriented to the surface location is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Cameron Stevens
MWD Manager
SunDrill Energy Services

Enclosures

SunDrill Energy Services
6230 Bingle Rd Houston, TX 77092
Phone (832) 879-2560



Minimum Curvature Calculation

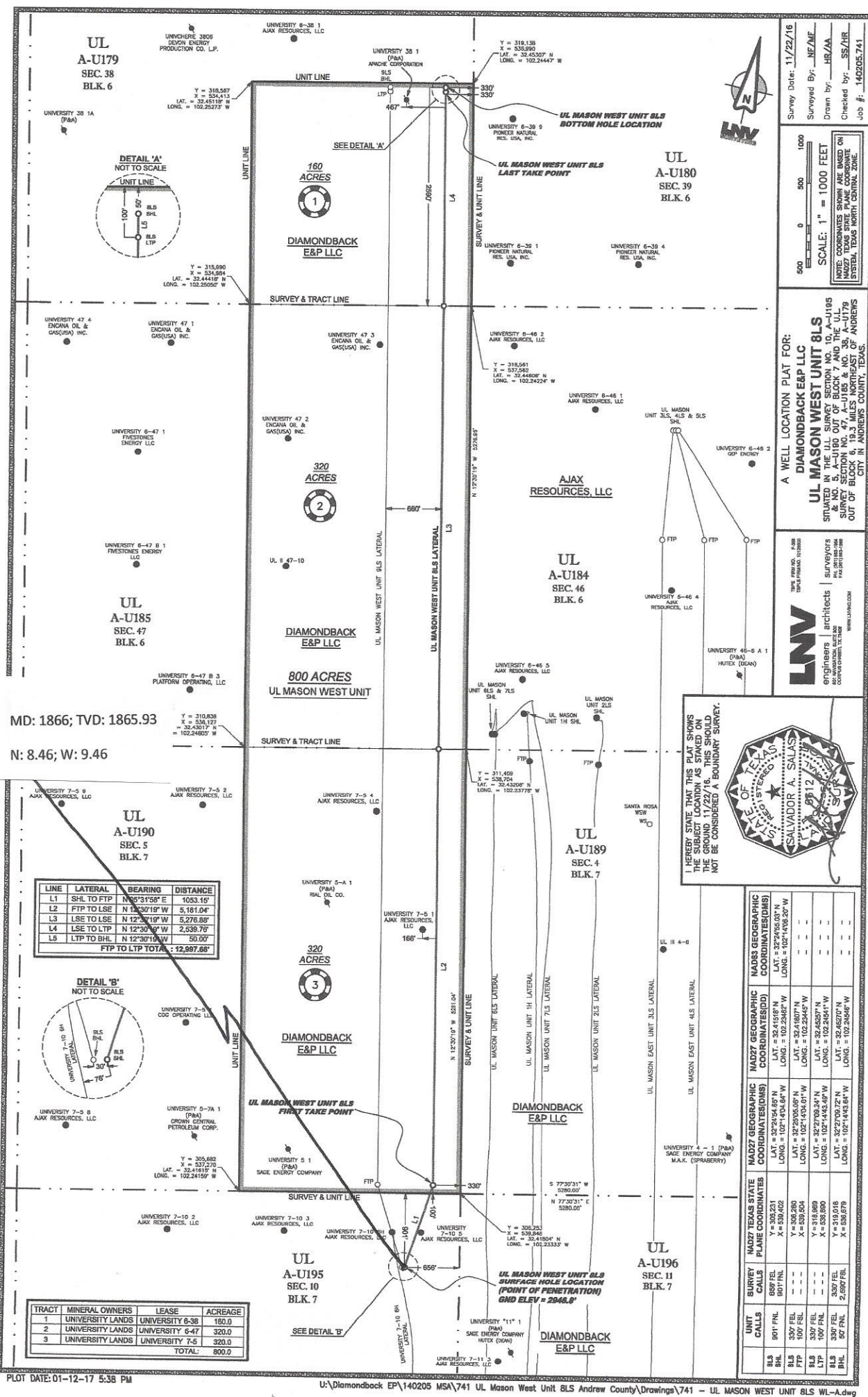
Client: Diamondback
Well: UL MASON WEST UNIT 8LS
County: Andrews Co. Texas
Rig: Integrity Rig 6

M.W.D. Operators: R. Gautier
 Directional Drillers:
 Tool Azimuth to Grid North: 8.55
 Job #: 17-PB-561

Vertical Section Angle: 0.00

API#: 42-003-47471

Sur #	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	DLS
Tie In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	129.00	0.50	0.37	129.00	0.56	0.56	0.00	0.39
2	223.00	0.50	263.40	223.00	0.93	0.93	-0.40	0.80
3	403.00	0.70	309.80	402.99	1.54	1.54	-2.03	0.28
4	535.00	0.30	290.00	534.98	2.17	2.17	-2.97	0.33
5	670.00	0.00	273.00	669.98	2.29	2.29	-3.30	0.22
6	890.00	0.80	256.00	889.97	1.92	1.92	-4.79	0.36
7	1027.00	0.30	280.00	1026.97	1.75	1.75	-6.07	0.39
8	1162.00	0.80	315.00	1161.96	2.48	2.48	-7.09	0.43
9	1514.00	0.40	325.00	1513.94	5.23	5.23	-9.53	0.12
10	1602.00	0.50	0.30	1601.94	5.86	5.86	-9.70	0.33
11	1779.00	0.60	7.60	1778.93	7.55	7.55	-9.58	0.07
12	1866.00	0.60	7.60	1865.93	8.46	8.46	-9.46	0.00
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March 23, 2017

STATE OF TEXAS

COUNTY OF HARRIS

I, Cameron Stevens, certify that; I am employed by SunDrill Energy Services that on the day(s) of March 16th, 2017- March 18th, 2017 we conducted and or supervised the taking of a MWD survey for UL Mason West Unit 8LS from a depth of 0 feet to a depth of 1866 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by SunDrill Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Diamondback E&P LLC; that I reviewed this report and find it conforms to the principles and procedures as set forth by SunDrill Energy Services .

A handwritten signature in black ink, appearing to read "C Stevens", is written over a horizontal line.

Cameron Stevens
MWD Manager
SunDrill Energy Services



DIRECTIONAL SERVICES, LLC.

12074 FM 3083 Rd., Conroe, TX 77304 | P: 936-756-2400 | F: 936-756-2401

May 3, 2017

The Railroad Commission of Texas
Oil & Gas Division
P.O. Drawer 12967
Capital Station
Austin, TX 78711-2967

Attention: Pam Johns

RE: Diamondback Energy
Well: Middle Knot Unit 21 4WA
Field: Spraberry (Trend Area)
Howard County, TX
API Number: 42-227-39014

Dear Ms. Johns,

Please find the attached surveys performed on the above referenced well by VON Directional Services, LLC. Other information required by your office is as follows:

Name of surveyor: Chuck Ortego

Original Hole:

Surveyed-Depths: 466'–7673' MD
Date-Performed: 4/10/17–4/17/17
Type of Survey: Directional Survey – EVO

A certified plat on which the bottom hole location is oriented both to the surface location and the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Chuck Ortego
MWD Manager

SURVEY DATA CERTIFICATION



DIRECTIONAL SERVICES, LLC.

Job #: 170091
Client: Diamondback Energy
County & State: Andrews County, TX.
Well: UL Mason West Unit 8LS
API No: 42-003-47471
Proposed Direction: 332.48°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
21'	21'	0°	0.°	0'	0'	MWD
Data Source Company:						Diamondback Energy

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
1-May-17	21 ft	0°	0°

Last Survey Date	Last Survey Depth	INC	AZM
9-May-17	10022 ft	91.76°	346.03°

Survey Instrument Type

EVO-TOOL

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
9-May-17	10117 ft	92.01°	345.26°

CORRECTION INFORMATION

Magnetic Declination Used	6.34	degrees
Grid Convergence Used	2.58	degrees

Corrected to True/Grid North

Grid North

Total Correction	8.93	degrees
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TO THE BEST OF MY KNOWLEDGE, I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

Chuck Ortego

Signature

Chuck Ortego

Printed Name

May 23, 2017

Date

DIAMONDBACK ENERGY

2947+32 @ 2979.00ft (ActualM1206)
NAD 1927 (NADCON CONUS)

Project: Andrews County, TX (NAD27) NCZ

Site: UL Mason West Unit 8LS

Well: 9LS

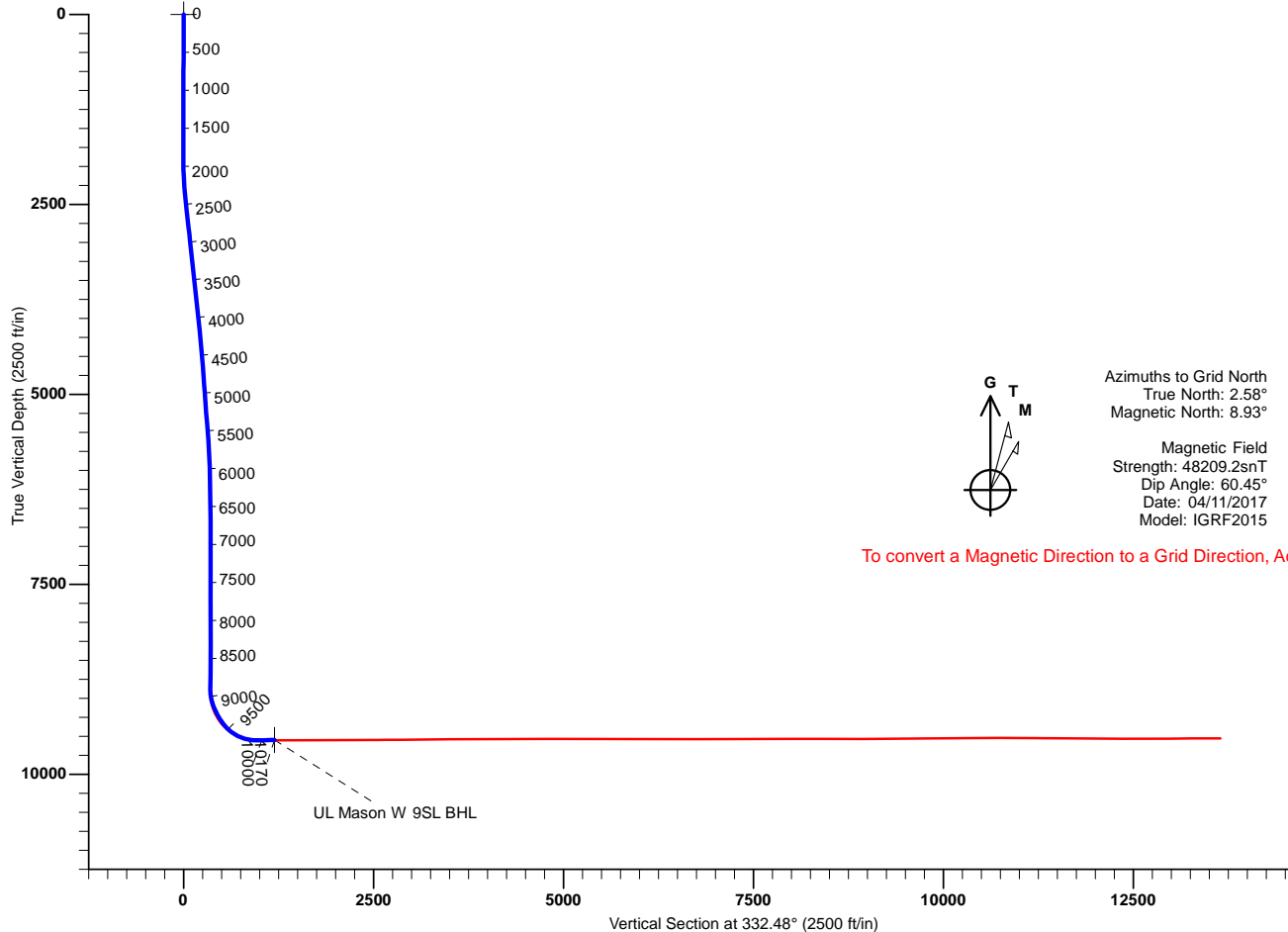
Wellbore: Lateral

Design: Lateral

DIAMONDBACK
Energy

TARGET DETAILS

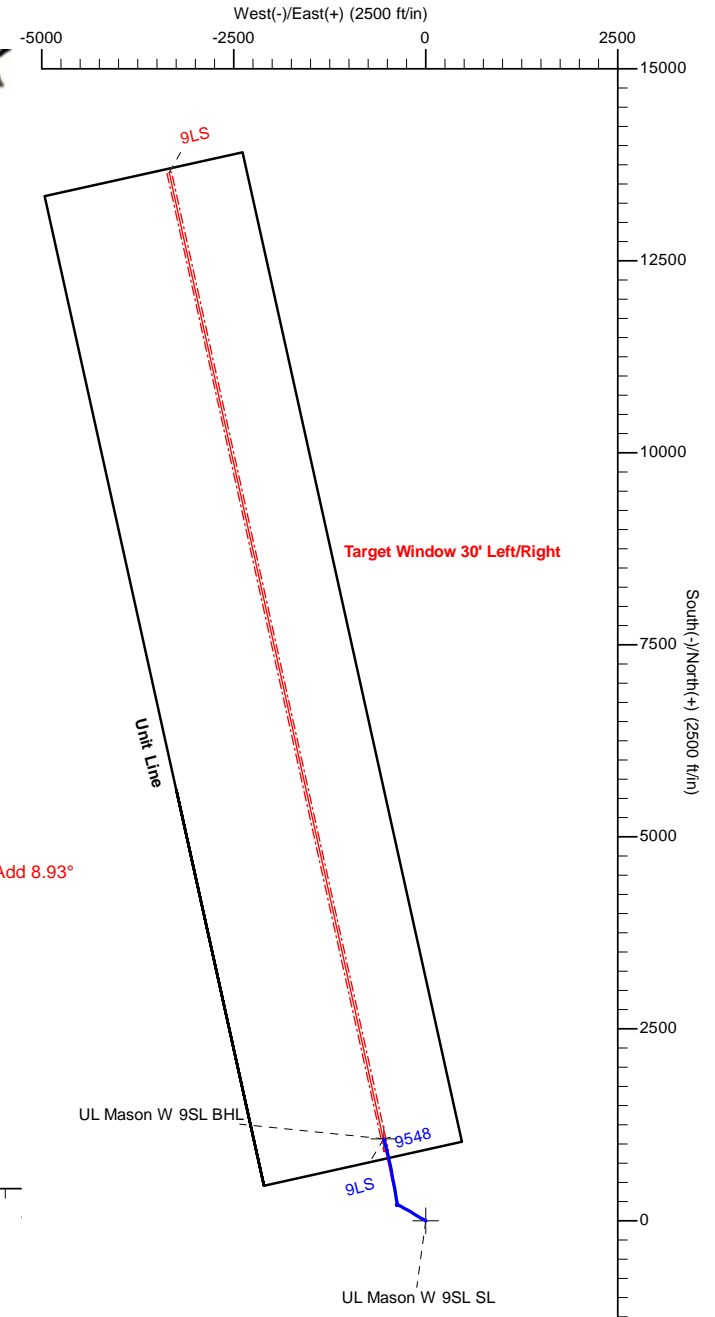
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
UL Mason W 9SL SL	0.00	0.00	0.00	305224.97	539373.15	Point
UL Mason W 9SL BHL	9547.72	1067.44	-543.04	306292.41	538830.11	Point



Azimuths to Grid North
True North: 2.58°
Magnetic North: 8.93°

Magnetic Field
Strength: 48209.2snT
Dip Angle: 60.45°
Date: 04/11/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.93°



Design: Lateral (9LS/Lateral)
Created By: Mekka Williams
eSovina Well Design
mekka@esominawelldesign.com
13:43, May 15 2017

VON DIRECTIONAL
12074 FM 3083 Conroe, Texas 77301
936-756-2400



Job Number: 09mbas
Company:
Lease/Well:
Location:
Rig Name:
RKB: 812.5
G.L. or M.S.L.: 807.4

State/Country:
Declination: 20.11381
Grid: 59.78
File name: C:\WINSERVE\170091.SVY
Date/Time: 08-May-17 / 21:06
Curve Name: Lateral

VON Directional

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 347.49
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

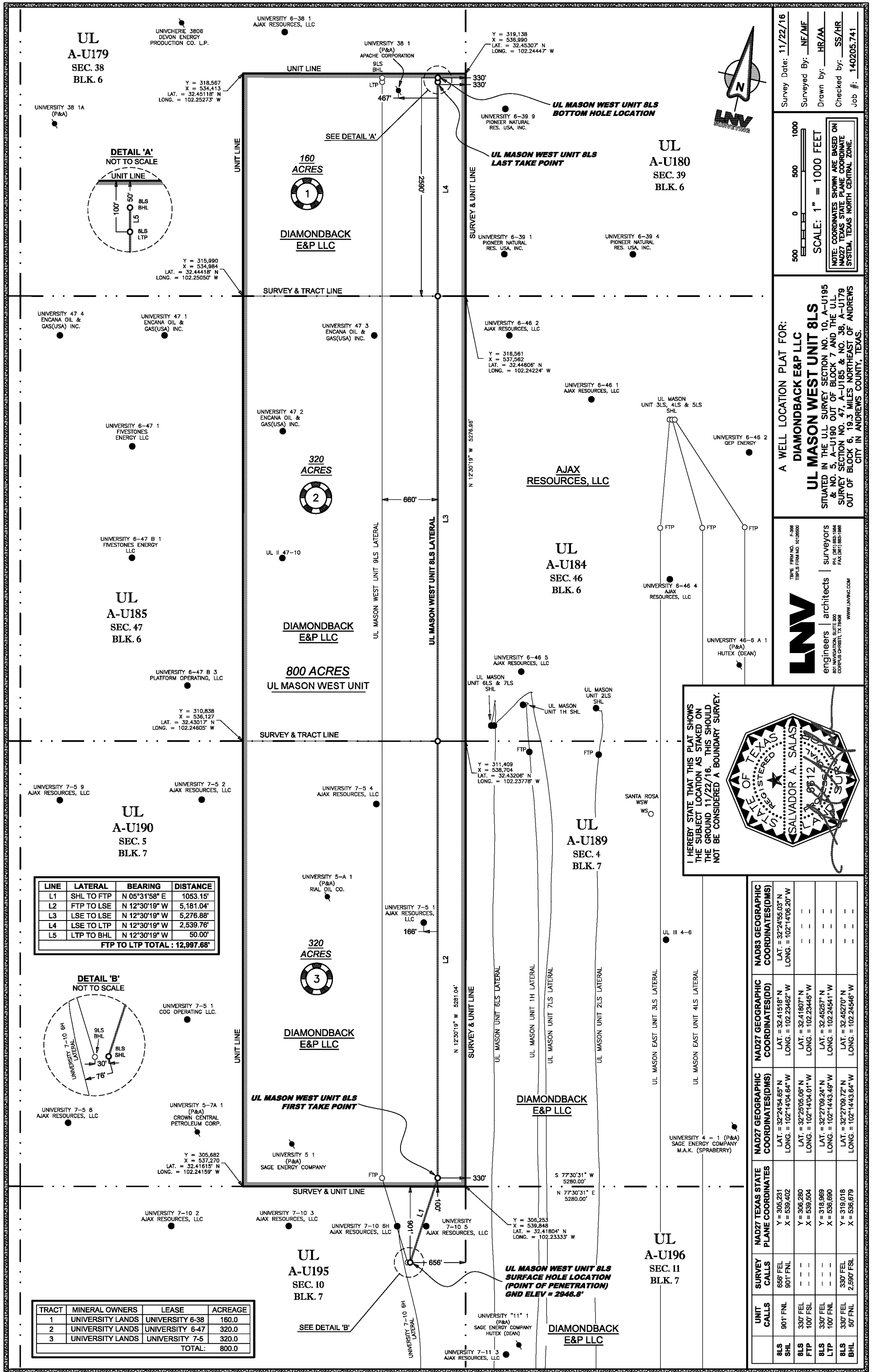
<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>C L O S U R E Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21.00	.00	.00	21.00	.00	.00	.00	.00	.00	.00
206.00	.30	295.70	206.00	.21	-.44	.30	.48	295.70	.16
400.00	.20	14.20	400.00	.76	-.81	.92	1.11	313.09	.17
581.00	.60	159.10	580.99	.18	-.40	.26	.43	294.41	.43
759.40	.20	141.40	759.39	-.94	.13	-.94	.95	171.97	.23
931.00	.40	76.20	930.99	-1.03	.90	-1.20	1.37	138.77	.21
1116.00	.40	358.30	1115.98	-.23	1.51	-.55	1.53	98.60	.27
1292.00	.40	139.20	1291.98	-.08	1.89	-.49	1.89	92.40	.43
1470.00	.10	162.60	1469.98	-.70	2.34	-1.19	2.45	106.58	.17
1646.00	.10	202.80	1645.98	-.99	2.33	-1.47	2.53	112.93	.04
1822.00	.30	45.10	1821.98	-.80	2.60	-1.35	2.72	107.16	.22
1845.00	.43	71.75	1844.98	-.73	2.72	-1.30	2.82	105.06	.92
1940.00	.17	29.51	1939.98	-.50	3.13	-1.16	3.17	99.05	.34
2036.00	1.97	312.17	2035.96	.73	1.98	.29	2.11	69.65	2.02

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
2131.00	2.95	304.63	2130.87	3.22	-1.24	3.41	3.45	338.86	1.08
2226.00	4.19	304.88	2225.68	6.59	-6.10	7.76	8.98	317.21	1.31
2321.00	6.02	298.98	2320.30	10.99	-13.31	13.61	17.26	309.55	2.00
2416.00	6.79	298.64	2414.71	16.10	-22.60	20.61	27.74	305.47	.81
2511.00	6.92	297.59	2509.03	21.44	-32.60	27.99	39.02	303.33	.19
2606.00	7.22	297.19	2603.31	26.82	-42.98	35.49	50.66	301.96	.32
2702.00	7.56	297.46	2698.51	32.49	-53.95	43.40	62.97	301.06	.36
2797.00	7.94	298.49	2792.64	38.50	-65.26	51.72	75.77	300.54	.43
2892.00	8.00	299.04	2886.73	44.84	-76.81	60.41	88.94	300.27	.10
2987.00	7.62	300.83	2980.84	51.27	-88.00	69.12	101.84	300.23	.47
3082.00	7.39	300.34	3075.03	57.59	-98.68	77.60	114.25	300.27	.25
3177.00	7.25	301.04	3169.26	63.76	-109.09	85.88	126.36	300.31	.17
3272.00	7.38	300.52	3263.48	69.95	-119.48	94.17	138.45	300.35	.15
3368.00	6.77	302.91	3358.75	76.16	-129.54	102.41	150.27	300.45	.71
3463.00	6.79	303.49	3453.09	82.30	-138.92	110.44	161.47	300.64	.08
3558.00	6.92	303.03	3547.41	88.52	-148.41	118.56	172.80	300.81	.15
3653.00	7.33	302.89	3641.68	94.93	-158.29	126.96	184.58	300.95	.43
3748.00	7.47	302.13	3735.88	101.50	-168.61	135.62	196.81	301.05	.18
3843.00	7.37	302.49	3830.09	108.06	-178.98	144.27	209.07	301.12	.12
3938.00	7.06	302.24	3924.34	114.45	-189.06	152.68	221.00	301.19	.33
4033.00	7.15	301.61	4018.61	120.66	-199.03	160.91	232.75	301.23	.13
4128.00	6.32	300.29	4112.95	126.40	-208.58	168.58	243.89	301.22	.89
4223.00	6.22	298.58	4207.38	131.50	-217.62	175.51	254.26	301.14	.22
4317.00	6.07	297.97	4300.84	136.27	-226.48	182.09	264.31	301.03	.17
4413.00	6.37	296.26	4396.28	141.00	-235.74	188.72	274.69	300.89	.37
4508.00	5.93	296.10	4490.73	145.49	-244.87	195.08	284.83	300.72	.46

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
4603.00	5.99	296.88	4585.22	149.89	-253.70	201.29	294.67	300.58	.11
4698.00	5.56	297.76	4679.73	154.28	-262.19	207.41	304.21	300.47	.46
4793.00	4.87	297.17	4774.34	158.26	-269.85	212.96	312.84	300.39	.73
4888.00	4.95	300.10	4868.99	162.16	-276.98	218.31	320.96	300.35	.28
4983.00	4.91	298.65	4963.64	166.16	-284.10	223.76	329.12	300.32	.14
5078.00	4.98	298.53	5058.29	170.08	-291.29	229.14	337.31	300.28	.07
5173.00	5.13	301.01	5152.92	174.24	-298.55	234.77	345.68	300.27	.28
5268.00	5.17	301.20	5247.53	178.65	-305.85	240.66	354.20	300.29	.05
5364.00	5.32	299.32	5343.13	183.07	-313.43	246.61	362.98	300.29	.24
5459.00	5.39	302.07	5437.72	187.59	-321.05	252.68	371.84	300.30	.28
5554.00	5.22	301.57	5532.31	192.22	-328.52	258.82	380.62	300.33	.19
5649.00	4.74	298.47	5626.95	196.36	-335.65	264.40	388.87	300.33	.58
5744.00	4.42	289.73	5721.65	199.46	-342.55	268.93	396.39	300.21	.81
5839.00	3.75	284.53	5816.41	201.48	-349.00	272.29	402.98	300.00	.81
5934.00	3.23	275.33	5911.23	202.51	-354.67	274.52	408.41	299.73	.80
5993.00	2.81	275.11	5970.15	202.79	-357.77	275.47	411.24	299.55	.71
6050.00	2.81	275.11	6027.08	203.04	-360.55	276.32	413.79	299.39	.00
6217.00	2.41	267.82	6193.91	203.27	-368.14	278.19	420.53	298.91	.31
6312.00	1.54	270.14	6288.85	203.20	-371.41	278.82	423.36	298.68	.92
6408.00	1.15	274.71	6384.82	203.28	-373.66	279.39	425.37	298.55	.42
6503.00	1.08	275.99	6479.81	203.45	-375.50	279.96	427.07	298.45	.08
6598.00	.64	277.16	6574.80	203.61	-376.92	280.42	428.40	298.38	.46
6693.00	.36	286.89	6669.79	203.76	-377.73	280.75	429.18	298.34	.31
6787.00	.34	295.52	6763.79	203.97	-378.26	281.06	429.75	298.33	.06
6883.00	.37	316.38	6859.79	204.32	-378.73	281.50	430.33	298.35	.14
6978.00	.24	327.77	6954.79	204.71	-379.05	281.95	430.80	298.37	.15

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E Distance FT	Direction Deg	Dogleg Severity Deg/100
7073.00	.31	136.39	7049.79	204.69	-378.98	281.92	430.72	298.37	.58
7167.00	.43	120.68	7143.78	204.33	-378.50	281.46	430.13	298.36	.17
7261.00	.42	83.44	7237.78	204.18	-377.86	281.18	429.49	298.39	.29
7356.00	.51	64.65	7332.78	204.41	-377.13	281.24	428.96	298.46	.19
7451.00	.60	55.34	7427.77	204.87	-376.34	281.52	428.49	298.56	.13
7547.00	.67	36.59	7523.77	205.61	-375.59	282.08	428.18	298.70	.23
7641.00	1.00	53.09	7617.76	206.54	-374.60	282.78	427.77	298.87	.43
7737.00	1.03	61.22	7713.74	207.46	-373.18	283.37	426.97	299.07	.15
7831.00	.88	58.21	7807.73	208.25	-371.82	283.84	426.17	299.25	.17
7926.00	.59	52.70	7902.72	208.93	-370.82	284.29	425.62	299.40	.31
8021.00	.57	337.24	7997.72	209.66	-370.61	284.96	425.80	299.50	.75
8116.00	.47	28.05	8092.72	210.44	-370.61	285.72	426.19	299.59	.48
8211.00	.22	41.80	8187.71	210.92	-370.30	286.12	426.16	299.66	.28
8307.00	.16	48.91	8283.71	211.14	-370.08	286.29	426.08	299.71	.07
8402.00	.20	62.78	8378.71	211.31	-369.83	286.40	425.94	299.74	.06
8497.00	.26	106.28	8473.71	211.32	-369.48	286.34	425.64	299.77	.19
8592.00	1.20	165.23	8568.70	210.30	-369.02	285.24	424.73	299.68	1.15
8688.00	1.13	161.30	8664.68	208.43	-368.46	283.29	423.33	299.50	.11
8783.00	.89	152.78	8759.67	206.89	-367.82	281.65	422.01	299.36	.30
8811.00	.84	159.75	8787.67	206.50	-367.65	281.24	421.67	299.32	.42
8881.00	.78	172.06	8857.66	205.55	-367.41	280.25	421.00	299.23	.26
8976.00	6.97	353.30	8952.45	210.64	-367.99	285.35	424.01	299.79	8.16
9070.00	16.33	350.81	9044.41	229.39	-370.77	304.26	436.00	301.74	9.97
9165.00	24.36	349.22	9133.41	261.88	-376.58	337.23	458.68	304.82	8.47
9260.00	29.28	351.23	9218.17	304.11	-383.79	380.02	489.67	308.39	5.27
9355.00	35.57	351.69	9298.32	354.46	-391.33	430.81	528.00	312.17	6.63
9451.00	42.56	350.52	9372.81	414.18	-400.73	491.15	576.31	315.95	7.32
9546.00	52.34	348.88	9436.98	482.94	-413.30	561.00	635.65	319.44	10.37
9641.00	61.40	349.04	9488.84	560.94	-428.52	640.45	705.89	322.62	9.54
9737.00	72.49	350.96	9526.38	647.80	-443.77	728.55	785.23	325.59	11.70

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
9832.00	82.08	348.93	9547.27	738.93	-459.96	821.02	870.39	328.10	10.31
9927.00	88.90	347.02	9554.74	831.50	-479.69	915.66	959.94	330.02	7.45
10022.00	91.76	346.03	9554.19	923.87	-501.82	1010.64	1051.36	331.49	3.19
10117.00	92.01	345.26	9551.06	1015.86	-525.36	1105.54	1143.66	332.65	.85





DIRECTIONAL SERVICES, LLC.

12074 FM 3083 Rd., Conroe, TX 77304 | P: 936-756-2400 | F: 936-756-2401

May 3, 2017

The Railroad Commission of Texas
Oil & Gas Division
P.O. Drawer 12967
Capital Station
Austin, TX 78711-2967

Attention: Pam Johns

RE: Diamondback Energy
Well: UL Mason West Unit 8LS
Field: Spraberry (Trend Area)
Andrews County, TX
API Number: 42-003-47471

Dear Ms. Johns,

Please find the attached surveys performed on the above referenced well by VON Directional Services, LLC. Other information required by your office is as follows:

Name of surveyor: Chuck Ortego

Original Hole:

Surveyed-Depths: 21'–11219' MD
Date-Performed: 4/10/17–4/19/17
Type of Survey: Directional Survey – EVO

A certified plat on which the bottom hole location is oriented both to the surface location and the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Chuck Ortego
MWD Manager

SURVEY DATA CERTIFICATION



DIRECTIONAL SERVICES, LLC.

Job #: 170077
Client: Diamondback Energy
County & State: Andrews County, TX.
Well: UL Mason West Unit 8LS
API No: 42-00347471
Proposed Direction: 31.49°

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
21'	21'	.0°	0.°	0'	0'	Gyro
Data Source Company:						Diamondback Energy

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
10-Apr-17	21 ft	0°	0°

Last Survey Date	Last Survey Depth	INC	AZM
19-Apr-17	11163 ft	89.91°	348.29°

Survey Instrument Type

EVO-TOOL

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
19-Apr-17	11219 ft	89.91°	348.29°

CORRECTION INFORMATION

Magnetic Declination Used	6.34	degrees
Grid Convergence Used	2.58	degrees

Corrected to True/Grid North

Grid North

Total Correction	8.93	degrees
-------------------------	------	---------

TO THE BEST OF MY KNOWLEDGE, I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

Signature

Chuck Ortego

Printed Name

May 3, 2017

Date

DIAMONDBACK ENERGY

2947+32 @ 2979.00ft (ActualM1206)
NAD 1927 (NADCON CONUS)

Project: Andrews County, TX (NAD27) NCZ

Site: UL Mason West Unit 8LS

Well: 8LS

Wellbore: Lateral

Design: Lateral

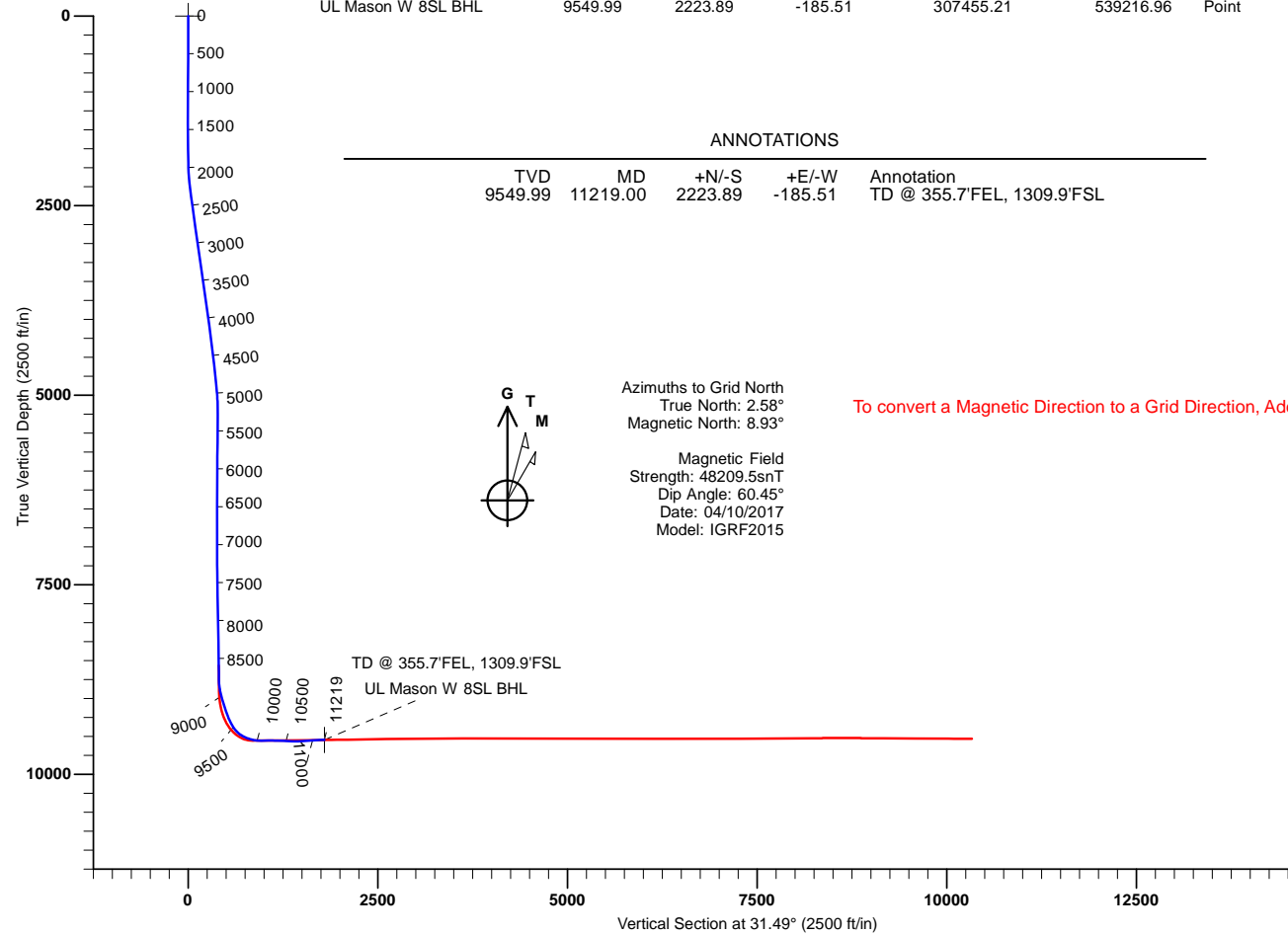


TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
UL Mason W 8SL SL	0.00	0.00	0.00	305231.32	539402.47	Point
UL Mason W 8SL BHL	9549.99	2223.89	-185.51	307455.21	539216.96	Point

ANNOTATIONS

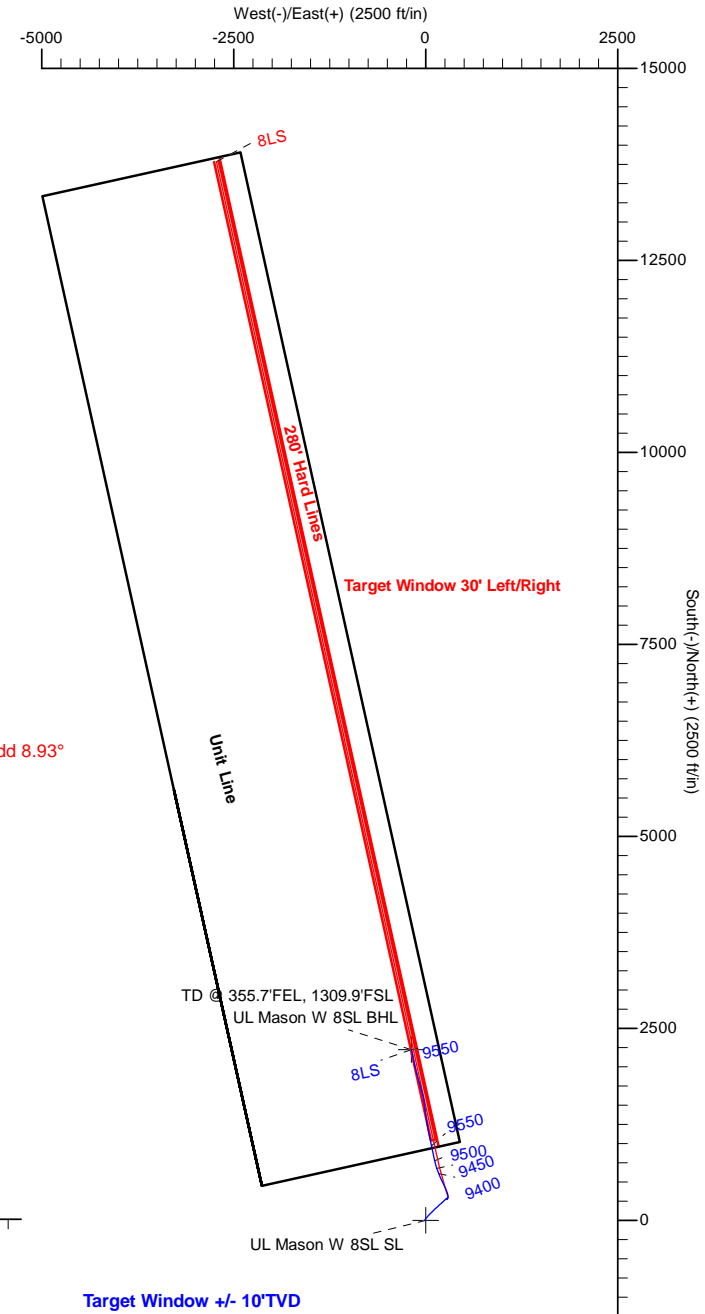
TVD	MD	+N/-S	+E/-W	Annotation
9549.99	11219.00	2223.89	-185.51	TD @ 355.7'FEL, 1309.9'FSL



Azimuths to Grid North
True North: 2.58°
Magnetic North: 8.93°

Magnetic Field
Strength: 48209.5snT
Dip Angle: 60.45°
Date: 04/10/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.93°



Design: Lateral (8LS/Lateral)
Created By: Mekka Williams
eSovina Well Design
mekka@esominawelldesign.com
10:12, April 22 2017

VON DIRECTIONAL
12074 FM 3083 Conroe, Texas 77301
936-756-2400





Job Number: 09mbas
 Company:
 Lease/Well:
 Location:
 Rig Name:
 RKB: 812.5
 G.L. or M.S.L.: 807.4

State/Country:
 Declination: 20.11381
 Grid: 59.78
 File name: C:\WINSERVE\170077.SVY
 Date/Time: 20-Apr-17 / 02:18
 Curve Name: TopHole - TopHole

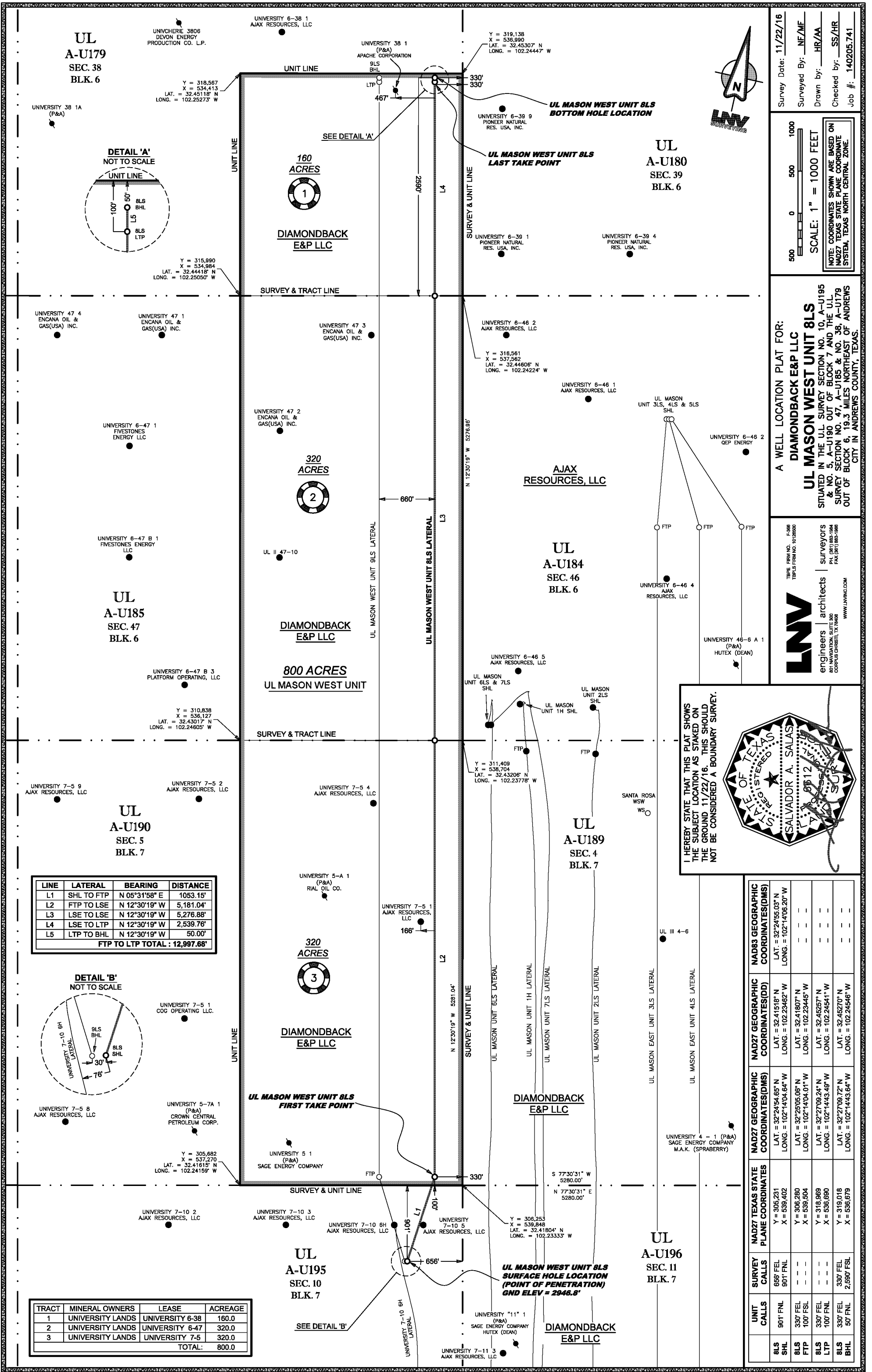
VON Directional, Services

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 347.50
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

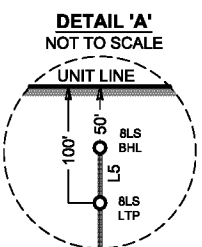
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21.00	.00	.00	21.00	.00	.00	.00	.00	.00	.00
150.00	.50	.37	150.00	.56	.00	.55	.56	.37	.39
244.00	.50	263.40	244.00	.93	-.40	.99	1.01	336.57	.80
424.00	.70	309.80	423.99	1.54	-2.03	1.94	2.54	307.23	.28
556.00	.30	290.00	555.98	2.17	-2.97	2.77	3.68	306.20	.33
691.00	.00	.00	690.98	2.29	-3.30	2.95	4.02	304.79	.22
911.00	.80	256.00	910.97	1.92	-4.79	2.91	5.16	291.86	.36
1048.00	.30	280.00	1047.97	1.75	-6.07	3.03	6.32	286.11	.39
1183.00	.80	315.00	1182.96	2.48	-7.09	3.96	7.51	289.29	.43
1535.00	.40	325.00	1534.94	5.23	-9.53	7.16	10.87	298.74	.12
1623.00	.50	.30	1622.94	5.86	-9.71	7.82	11.34	301.13	.33
1800.00	.60	7.60	1799.93	7.55	-9.58	9.45	12.20	308.25	.07
1893.00	.60	7.60	1892.93	8.52	-9.45	10.36	12.72	312.03	.00
1939.00	.22	13.28	1938.92	8.84	-9.40	10.67	12.90	313.26	.83
2035.00	2.95	32.12	2034.88	11.11	-8.04	12.59	13.72	324.11	2.86
2130.00	5.00	37.43	2129.65	16.47	-4.23	17.00	17.01	345.61	2.19
2225.00	6.18	39.10	2224.19	23.73	1.52	22.84	23.78	3.66	1.25
2320.00	7.51	39.42	2318.51	32.49	8.68	29.84	33.63	14.96	1.40
2415.00	7.98	39.28	2412.65	42.39	16.80	37.75	45.60	21.62	.50
2510.00	8.01	41.01	2506.72	52.49	25.32	45.77	58.28	25.75	.26
2605.00	8.06	44.93	2600.79	62.20	34.37	53.29	71.06	28.92	.58
2701.00	8.19	44.99	2695.83	71.80	43.95	60.59	84.19	31.47	.14
2796.00	8.31	44.52	2789.84	81.48	53.55	67.96	97.51	33.31	.14
2891.00	8.51	43.87	2883.82	91.45	63.24	75.59	111.18	34.66	.23

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
Distance FT	Direction Deg								
2986.00	8.18	46.59	2977.82	101.16	73.02	82.96	124.76	35.82	.54
3081.00	8.18	45.86	3071.85	110.51	82.78	89.97	138.07	36.84	.11
3176.00	8.10	44.56	3165.89	119.98	92.32	97.16	151.39	37.58	.21
3272.00	7.98	44.20	3260.95	129.58	101.71	104.49	164.73	38.13	.14
3367.00	7.85	43.68	3355.04	139.00	110.79	111.73	177.75	38.56	.16
3462.00	8.40	47.71	3449.09	148.36	120.41	118.78	191.07	39.06	.83
3557.00	8.71	48.86	3543.03	157.76	130.96	125.68	205.03	39.70	.37
3652.00	8.69	47.62	3636.94	167.33	141.67	132.70	219.25	40.25	.20
3747.00	8.75	47.88	3730.84	177.02	152.34	139.85	233.54	40.71	.08
3842.00	8.61	46.38	3824.76	186.77	162.84	147.10	247.79	41.09	.28
3938.00	8.74	46.78	3919.66	196.72	173.36	154.54	262.21	41.39	.15
4032.00	8.10	50.42	4012.64	205.83	183.67	161.20	275.86	41.74	.89
4127.00	7.83	50.53	4106.73	214.21	193.82	167.18	288.88	42.14	.28
Cor									
4222.00	7.72	49.56	4200.85	222.46	203.67	173.10	301.62	42.48	.18
4317.00	6.64	44.81	4295.11	230.50	212.40	179.06	313.44	42.66	1.30
4412.00	7.10	46.39	4389.43	238.44	220.52	185.06	324.79	42.76	.52
4507.00	6.98	48.00	4483.71	246.35	229.06	190.94	336.39	42.92	.24
4602.00	6.75	47.31	4578.03	254.00	237.46	196.59	347.71	43.07	.26
4697.00	6.39	47.41	4672.40	261.37	245.45	202.04	358.55	43.20	.38
4792.00	6.08	46.67	4766.84	268.40	253.01	207.27	368.85	43.31	.34
4887.00	6.02	44.75	4861.31	275.39	260.17	212.55	378.85	43.37	.22
4982.00	5.55	46.59	4955.83	282.08	267.02	217.60	388.42	43.43	.53
5077.00	3.96	66.81	5050.51	286.53	273.37	220.57	396.02	43.65	2.41
5172.00	2.13	102.26	5145.38	287.45	278.11	220.44	399.96	44.05	2.68
5268.00	.87	139.99	5241.34	286.51	280.32	219.05	400.84	44.37	1.60
5363.00	.56	172.37	5336.34	285.50	280.85	217.94	400.48	44.53	.52
5458.00	.43	216.83	5431.33	284.75	280.70	217.25	399.84	44.59	.41
5553.00	.37	218.85	5526.33	284.23	280.29	216.82	399.18	44.60	.06
5648.00	.27	219.57	5621.33	283.82	279.96	216.50	398.66	44.61	.11
5743.00	.26	223.14	5716.33	283.49	279.67	216.24	398.22	44.61	.02
5838.00	.39	224.29	5811.33	283.10	279.29	215.94	397.68	44.61	.14
5933.00	.38	203.83	5906.32	282.58	278.94	215.51	397.06	44.63	.14
6028.00	.48	211.02	6001.32	281.95	278.61	214.96	396.38	44.66	.12
6124.00	.40	232.08	6097.32	281.40	278.14	214.53	395.66	44.67	.19
6219.00	.38	230.42	6192.32	280.99	277.63	214.24	395.01	44.66	.02
6314.00	.19	226.11	6287.31	280.68	277.27	214.02	394.54	44.65	.20
6409.00	.16	212.06	6382.31	280.46	277.09	213.84	394.26	44.65	.05
6504.00	.14	221.40	6477.31	280.26	276.94	213.68	394.01	44.66	.03
6600.00	.19	192.53	6573.31	280.02	276.83	213.46	393.76	44.67	.10
6695.00	.13	154.24	6668.31	279.77	276.84	213.22	393.59	44.70	.13
6790.00	.32	114.59	6763.31	279.56	277.13	212.95	393.65	44.75	.25
6885.00	.38	124.71	6858.31	279.27	277.63	212.56	393.79	44.83	.09
6979.00	.63	107.96	6952.31	278.93	278.38	212.07	394.08	44.94	.31
7075.00	.42	77.98	7048.30	278.85	279.23	211.80	394.62	45.04	.35
7170.00	.46	73.06	7143.30	279.03	279.93	211.83	395.25	45.09	.06

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
				FT	FT	FT	Distance FT	Direction Deg	
7265.00	.59	72.51	7238.30	279.29	280.76	211.90	396.02	45.15	.14
7359.00	.52	58.19	7332.29	279.66	281.59	212.08	396.86	45.20	.16
7453.00	.60	60.70	7426.29	280.12	282.38	212.37	397.75	45.23	.09
7548.00	.89	34.92	7521.28	280.97	283.24	213.01	398.96	45.23	.46
7643.00	1.05	35.88	7616.27	282.28	284.17	214.09	400.54	45.19	.17
7739.00	.91	33.70	7712.25	283.63	285.11	215.20	402.16	45.15	.15
7833.00	.88	34.12	7806.24	284.85	285.93	216.21	403.60	45.11	.03
7928.00	.95	29.78	7901.23	286.13	286.73	217.29	405.07	45.06	.10
8118.00	1.13	15.18	8091.20	289.31	288.00	220.12	408.22	44.87	.17
8308.00	1.03	8.93	8281.16	292.81	288.75	223.37	411.23	44.60	.08
8403.00	.48	357.90	8376.16	294.05	288.87	224.55	412.20	44.49	.60
8593.00	.87	34.89	8566.14	296.02	289.67	226.31	414.17	44.38	.30
8689.00	1.03	45.23	8662.13	297.23	290.70	227.27	415.75	44.36	.24
8784.00	1.05	45.99	8757.11	298.44	291.93	228.18	417.48	44.37	.03
8879.00	10.48	353.95	8851.55	307.66	291.64	237.24	423.92	43.47	10.39
8974.00	17.75	347.80	8943.62	330.43	287.67	260.34	438.11	41.04	7.80
9069.00	24.40	343.03	9032.22	363.39	278.87	294.42	458.07	37.50	7.22
9163.00	28.89	339.53	9116.23	403.26	265.25	336.29	482.68	33.34	5.06
9258.00	32.99	332.49	9197.72	447.73	245.27	384.04	510.51	28.71	5.75
9353.00	39.34	334.42	9274.38	497.89	220.29	438.40	544.44	23.87	6.79
9449.00	45.06	335.88	9345.47	556.39	193.25	501.38	589.00	19.15	6.04
9545.00	51.48	338.77	9409.34	622.48	165.73	571.86	644.17	14.91	7.05
9640.00	62.40	340.67	9461.09	697.08	138.26	650.63	710.66	11.22	11.62
9735.00	67.93	350.99	9501.06	780.53	117.37	736.62	789.30	8.55	11.44
9830.00	76.73	347.18	9529.88	869.29	100.17	827.00	875.04	6.57	10.02
9925.00	80.92	345.84	9548.29	959.89	78.43	920.16	963.09	4.67	4.62
10020.00	87.55	347.18	9557.83	1051.75	56.40	1014.61	1053.26	3.07	7.12
10116.00	91.51	350.28	9558.61	1145.87	37.65	1110.56	1146.48	1.88	5.24
10211.00	90.69	351.88	9556.79	1239.70	22.92	1205.35	1239.91	1.06	1.89
10306.00	88.16	351.51	9557.74	1333.69	9.20	1300.08	1333.72	.40	2.69
10401.00	89.31	352.47	9559.84	1427.73	-4.03	1394.76	1427.74	359.84	1.58
10496.00	87.52	351.64	9562.47	1521.78	-17.16	1489.42	1521.88	359.35	2.08
10591.00	88.95	347.99	9565.39	1615.22	-33.95	1584.28	1615.58	358.80	4.12
10687.00	90.49	344.60	9565.86	1708.47	-56.69	1680.24	1709.41	358.10	3.88
10782.00	91.30	343.15	9564.38	1799.72	-83.07	1775.04	1801.64	357.36	1.75
10877.00	92.26	344.35	9561.43	1890.88	-109.64	1869.79	1894.05	356.68	1.62
10972.00	94.13	346.15	9556.13	1982.60	-133.79	1964.56	1987.10	356.14	2.73
11068.00	91.71	348.37	9551.24	2076.10	-154.93	2060.42	2081.87	355.73	3.42
11163.00	89.91	348.29	9549.90	2169.12	-174.14	2155.40	2176.10	355.41	1.90
11219.00	89.91	348.24	9549.99	2223.95	-185.53	2211.39	2231.68	355.23	.08



UL
A-U179
SEC. 38
BLK. 6



Y = 315,990
X = 534,984
LAT. = 32.44418° N
LONG. = 102.25050° W

UNIVERSITY 47 4
ENCANA OIL &
GAS(USA) INC.

UNIVERSITY 47 1
ENCANA OIL &
GAS(USA) INC.

UNIVERSITY 47 3
ENCANA OIL &
GAS(USA) INC.

UNIVERSITY 6-47 1
FIVESTONES
ENERGY LLC

UNIVERSITY 47 2
ENCANA OIL &
GAS(USA) INC.

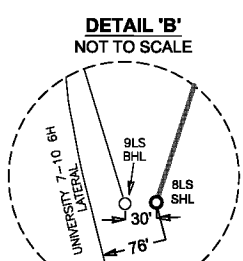
UL
A-U185
SEC. 47
BLK. 6

UNIVERSITY 6-47 B 3
PLATFORM OPERATING, LLC

Y = 310,838
X = 536,127
LAT. = 32.43017° N
LONG. = 102.24605° W

UL
A-U190
SEC. 5
BLK. 7

LINE	LATERAL	BEARING	DISTANCE
L1	SHL TO FTP	N 05°31'58" E	1053.15'
L2	FTP TO LSE	N 12°30'19" W	5,181.04'
L3	LSE TO LSE	N 12°30'19" W	5,276.88'
L4	LSE TO LTP	N 12°30'19" W	2,539.76'
L5	LTP TO BHL	N 12°30'19" W	50.00'
FTP TO LTP TOTAL : 12,997.68'			



UNIVERSITY 7-5 8
AJAX RESOURCES, LLC

UNIVERSITY 7-5 1
COG OPERATING LLC.

UNIVERSITY 5-7A 1
(P&A)
CROWN CENTRAL
PETROLEUM CORP.

Y = 305,882
X = 537,270
LAT. = 32.41615° N
LONG. = 102.24159° W

UNIVERSITY 7-10 2
AJAX RESOURCES, LLC

UNIVERSITY 7-10 3
AJAX RESOURCES, LLC

UNIVERSITY 7-10 6H
AJAX RESOURCES, LLC

UNIVERSITY 7-10 5
AJAX RESOURCES, LLC

UL
A-U195
SEC. 10
BLK. 7

TRACT	MINERAL OWNERS	LEASE	ACREAGE
1	UNIVERSITY LANDS	UNIVERSITY 6-38	160.0
2	UNIVERSITY LANDS	UNIVERSITY 6-47	320.0
3	UNIVERSITY LANDS	UNIVERSITY 7-5	320.0
TOTAL: 800.0			

160
ACRES
1
DIAMONDBACK
E&P LLC

320
ACRES
2

800 ACRES
UL MASON WEST UNIT

320
ACRES
3
DIAMONDBACK
E&P LLC

UL MASON WEST UNIT 8LS
FIRST TAKE POINT

UNIVERSITY 5 1
SAGE ENERGY COMPANY

UNIVERSITY 7-10 3
AJAX RESOURCES, LLC

UNIVERSITY 7-10 6H
AJAX RESOURCES, LLC

UNIVERSITY 7-10 5
AJAX RESOURCES, LLC

UNIVERSITY "11" 1
(P&A)
SAGE ENERGY COMPANY
HUTEX (DEAN)

UNIVERSITY 7-11 3
AJAX RESOURCES, LLC

UL MASON WEST UNIT 8LS
SURFACE HOLE LOCATION
(POINT OF PENETRATION)
GND ELEV = 2946.8'

DIAMONDBACK
E&P LLC

UNIVERSITY 6-46 2
AJAX RESOURCES, LLC

Y = 318,561
X = 537,562
LAT. = 32.44606° N
LONG. = 102.24224° W

UNIVERSITY 6-46 1
AJAX RESOURCES, LLC

AJAX
RESOURCES, LLC

UL
A-U184
SEC. 46
BLK. 6

UNIVERSITY 6-46 5
AJAX RESOURCES, LLC

UL MASON
UNIT 6LS & 7LS
SHL

UL MASON
UNIT 2LS
SHL

UL MASON
UNIT 1H SHL

Y = 311,409
X = 538,704
LAT. = 32.43206° N
LONG. = 102.23778° W

UL
A-U189
SEC. 4
BLK. 7

SANTA ROSA
WS

I HEREBY STATE THAT THIS PLAT SHOWS
THE SUBJECT LOCATION AS STAKED ON
THE GROUND 11/22/16. THIS SHOULD
NOT BE CONSIDERED A BOUNDARY SURVEY.



UNIT CALLS	SURVEY CALLS	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES(DMS)	NAD27 GEOGRAPHIC COORDINATES(DD)	NAD83 GEOGRAPHIC COORDINATES(DMS)
8LS SHL	658' FEL 901' FNL	Y = 305,231 X = 539,402	LAT. = 32°24'54.85" N LONG. = 102°14'04.64" W	LAT. = 32.41518° N LONG. = 102.23462° W	LAT. = 32°24'55.03" N LONG. = 102°14'05.20" W
8LS SHL	330' FEL 100' FSL	Y = 306,280 X = 539,504	LAT. = 32°25'05.08" N LONG. = 102°14'04.01" W	LAT. = 32.41807° N LONG. = 102.23445° W	- - - -
8LS LTP	330' FEL 100' FSL	Y = 318,969 X = 536,690	LAT. = 32°27'09.24" N LONG. = 102°14'43.49" W	LAT. = 32.45267° N LONG. = 102.24541° W	- - - -
8LS BHL	330' FEL 2,590' FSL	Y = 319,018 X = 536,679	LAT. = 32°27'09.72" N LONG. = 102°14'43.64" W	LAT. = 32.45270° N LONG. = 102.24546° W	- - - -

A WELL LOCATION PLAT FOR:
DIAMONDBACK E&P LLC
UL MASON WEST UNIT 8LS
SITUATED IN THE U.L. SURVEY SECTION NO. 10, A-U195
& NO. 5, A-U190 OUT OF BLOCK 7 AND THE U.L.
SURVEY SECTION NO. 47, A-U185 & NO. 38, A-U179
OUT OF BLOCK 6, 19.3 MILES NORTHEAST OF ANDREWS
CITY IN ANDREWS COUNTY, TEXAS.

LNW
engineers | architects
801 NAVIGATION, SUITE 300
CORPUS CHRISTI, TX 78408
WWW.LNW.COM
surveyors
PH: (361) 983-1864
FAX: (361) 983-1866
TBP# FIRM NO. F-396
TBP# FIRM NO. 10126500

Survey Date: 11/22/16
Surveyed By: NF/MF
Drawn by: HR/AA
Checked by: SS/HR
Job #: 140205.741

SCALE: 1" = 1000 FEET
NOTE: COORDINATES SHOWN ARE BASED ON
NAD27 TEXAS STATE PLANE COORDINATE
SYSTEM, TEXAS NORTH CENTRAL ZONE.

Oilfield Services, Central U.S. Land

Schlumberger Drilling and Measurements

Drilling Group

Geo Market Area: South West Texas Basin

7220 W I-H 20

Midland, Texas 79706

Phone : (432) 742-5400 (Main)

Fax : (432) 742-5606 (Shared)

Schlumberger

May 8, 2017

Railroad Commission of Texas

Oil and Gas Division

PO Box 12967

Capital Station

Austin, Texas 78711

Attention: Pam Johns

Re:

CLIENT: Diamondback E&P LLC
WELL: UL Mason West Unit 8LS
FIELD: Spraberry (Trend Area)

RIG: Nabors 1206
COUNTY: Andrews
API NO: 42-003-47471
PERMIT: 822151
JOB NO: 17MLD1443

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jackie McGrath FE	UL Mason West Unit 8LS Original Hole	11272.00 Ft to 23018.00 Ft	April 21, 2017 to April 28, 2017	SlimPulse

A plat of the bottom hole location is oriented both to the surface location and to the lease lines (or until line in case of pooling), is attached to the survey report.

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Field Service Manager

CC: Diamondback E&P LLC

Enclosures: [2]

County of Andrews

State of Texas

SCHLUMBERGER
Survey Report

11-May-2017

Client..... Diamondback E&P LLC
Field..... Spraberry (Trend Area)

Well..... UL Mason West Unit 8LS
API number..... 42-003-47471
Engineer..... Jackie McGrath

County..... Andrews
State..... Texas
Rig..... Nabors 1206

Spud date..... 11-Apr-17
Last survey date..... 28-Apr-17
Total accepted surveys..... 244
MD of first survey..... 11272.00 ft
MD of last survey..... 23018.00 ft

Latitude..... 32° 24' 54.646" N
Longitude..... 102° 14' 4.646" W

----- Survey calculation methods-----
Method for positions..... Minimum curvature
Method for DLS..... Lubinski

----- Depth reference -----
Permanent datum..... MSL
Depth reference..... Driller's Depth
GL above permanent..... 2946.80
KB above permanent..... 2978.80
DF above permanent..... 2978.80

----- Vertical section origin-----
Latitude (+N/-)..... 0.00 ft
Departure (+E/-)..... 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X..... 305231.00 ft
Y..... 593402.00 ft

Azimuth from Vsect Origin to target: 347.50 degrees

-----MWD Survey Reference Criteria-----

-----Run1----- Calculation Date: 20-Apr-2017
Location G..... 998.53 mgn Tolerance G..... 2.50 mgn
Location B..... 48039.51 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.23 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 25-Apr-2017
Location G..... 998.53 mgn Tolerance G..... 2.50 mgn
Location B..... 48038.6 nT Tolerance B..... 300.00 nT
Magnetic Dip: 60.23 degrees Tolerance Dip: 0.45 degrees

BGGM Model: HDGM

-----Run1-----
Magnetic dec (+E/-)..... 6.369 degrees
Grid Conv (+E/-)..... -2.5822 degrees
Total Azim Corr (+E/-)..... 8.9512 degrees

-----Run2-----
Magnetic dec (+E/-)..... 6.369 degrees
Grid Conv (+E/-)..... -2.5822 degrees
Total Azim Corr (+E/-)..... 8.9512 degrees

-----Survey Correction Index Description-----

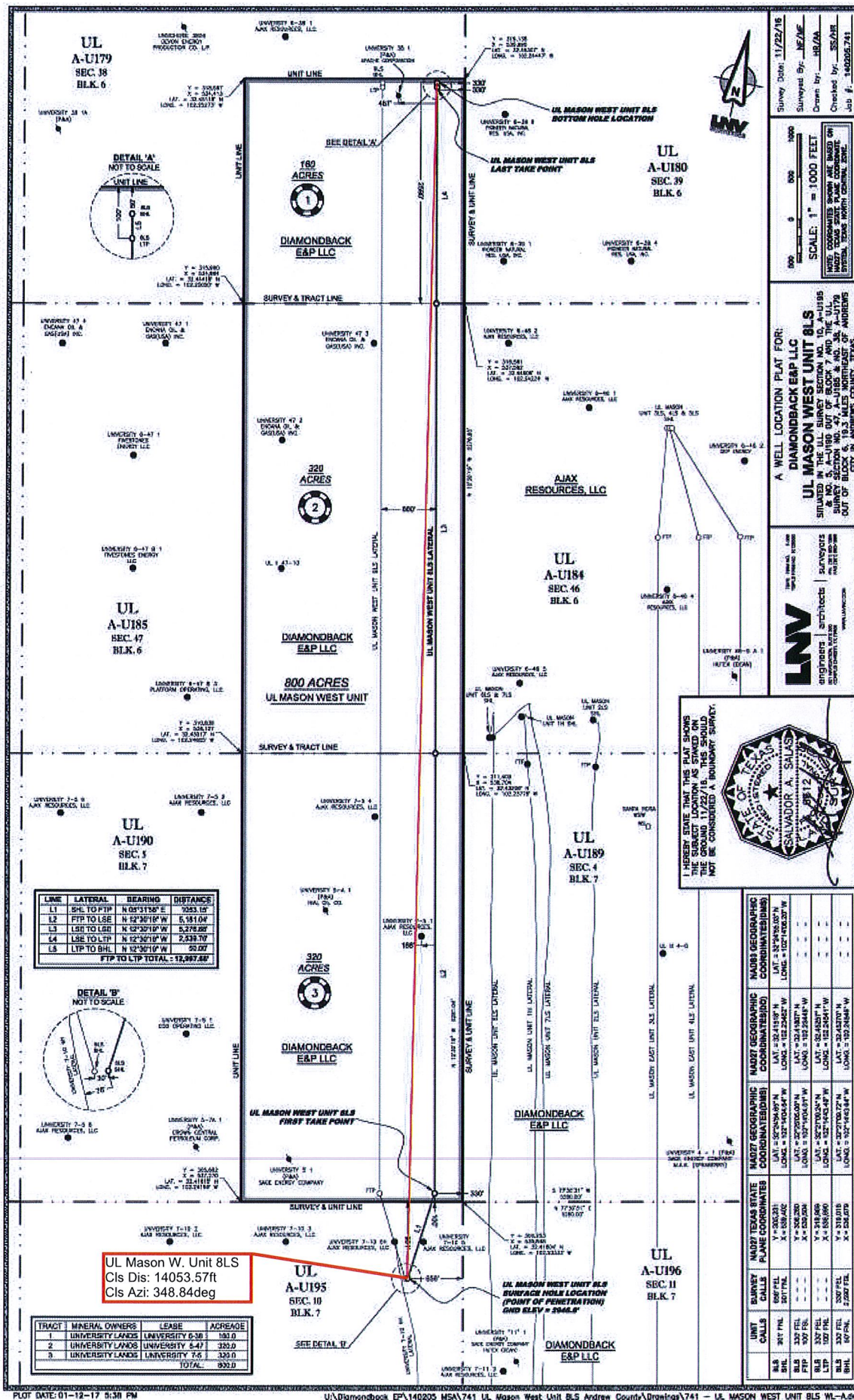
0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

===== Survey List =====

Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	21.00	0.00	360.00	21.00	21.00	0.00	0.00	0.00	0	90.00	0.00	Other	0
3	150.00	0.50	0.37	129.00	150.00	0.55	0.56	0.00	0.56	0.37	0.39	Other	0
4	244.00	0.50	263.40	94.00	244.00	0.99	0.93	-0.40	1.01	336.57	0.80	Other	0
5	424.00	0.70	309.80	180.00	423.99	1.94	1.54	-2.03	2.54	307.23	0.28	Other	0
6	556.00	0.30	290.00	132.00	555.98	2.77	2.17	-2.97	3.68	306.20	0.33	Other	0
7	691.00	0.00	273.00	135.00	690.98	2.96	2.29	-3.30	4.02	304.79	0.22	Other	0
8	911.00	0.80	256.00	220.00	910.97	2.91	1.92	-4.79	5.16	291.86	0.36	Other	0
9	1048.00	0.30	280.00	137.00	1047.97	3.03	1.75	-6.07	6.32	286.11	0.39	Other	0
10	1183.00	0.80	315.00	135.00	1182.96	3.96	2.48	-7.09	7.51	289.30	0.43	Other	0
11	1535.00	0.40	325.00	352.00	1534.94	7.16	5.23	-9.53	10.87	298.74	0.12	Other	0
12	1623.00	0.50	0.30	88.00	1622.94	7.82	5.86	-9.70	11.34	301.13	0.33	Other	0
13	1800.00	0.60	7.60	177.00	1799.93	9.45	7.55	-9.58	12.2	308.26	0.07	Other	0
14	1893.00	0.60	7.60	93.00	1892.93	10.36	8.52	-9.45	12.72	312.03	0.00	Other	0
15	1939.00	0.22	13.28	46.00	1938.92	10.67	8.84	-9.40	12.9	313.26	0.83	Other	0
16	2035.00	2.95	32.12	96.00	2034.88	12.59	11.11	-8.04	13.72	324.11	2.86	Other	0
17	2130.00	5.00	37.43	95.00	2129.65	17.00	16.47	-4.22	17.01	345.61	2.19	Other	0
18	2225.00	6.18	39.10	95.00	2224.19	22.84	23.73	1.52	23.78	3.66	1.25	Other	0
19	2320.00	7.51	39.42	95.00	2318.51	29.84	32.49	8.68	33.63	14.96	1.40	Other	0
20	2415.00	7.98	39.28	95.00	2412.65	37.75	42.39	16.80	45.6	21.62	0.50	Other	0
21	2510.00	8.01	41.01	95.00	2506.72	45.77	52.49	25.32	58.28	25.75	0.26	Other	0
22	2605.00	8.06	44.93	95.00	2600.79	53.29	62.20	34.37	71.06	28.92	0.58	Other	0
23	2701.00	8.19	44.99	96.00	2695.83	60.59	71.80	43.95	84.19	31.47	0.14	Other	0
24	2796.00	8.31	44.52	95.00	2789.84	67.96	81.48	53.55	97.51	33.31	0.14	Other	0
25	2891.00	8.51	43.87	95.00	2883.82	75.59	91.45	63.24	111.18	34.66	0.23	Other	0
26	2986.00	8.18	46.59	95.00	2977.82	82.96	101.16	73.02	124.76	35.82	0.54	Other	0
27	3081.00	8.18	45.86	95.00	3071.85	89.97	110.51	82.78	138.07	36.84	0.11	Other	0
28	3176.00	8.10	44.56	95.00	3165.89	97.16	119.98	92.32	151.39	37.58	0.21	Other	0
29	3272.00	7.98	44.20	96.00	3260.95	104.49	129.58	101.71	164.73	38.13	0.14	Other	0
30	3367.00	7.85	43.68	95.00	3355.04	111.73	139.00	110.79	177.75	38.56	0.16	Other	0
31	3462.00	8.40	47.71	95.00	3449.09	118.78	148.36	120.41	191.07	39.06	0.83	Other	0
32	3557.00	8.71	48.86	95.00	3543.03	125.68	157.76	130.96	205.03	39.70	0.37	Other	0

33	3652.00	8.69	47.61	95.00	3636.94	132.70	167.33	141.67	219.25	40.25	0.20	Other	0
34	3747.00	8.75	47.88	95.00	3730.84	139.85	177.02	152.33	233.54	40.71	0.08	Other	0
35	3842.00	8.61	46.38	95.00	3824.76	147.10	186.77	162.84	247.79	41.08	0.28	Other	0
36	3938.00	8.74	46.78	96.00	3919.66	154.54	196.72	173.36	262.21	41.39	0.15	Other	0
37	4032.00	8.10	50.42	94.00	4012.64	161.20	205.83	183.67	275.86	41.74	0.89	Other	0
38	4127.00	7.83	50.53	95.00	4106.73	167.18	214.21	193.82	288.88	42.14	0.28	Other	0
39	4222.00	7.72	49.56	95.00	4200.85	173.11	222.46	203.67	301.62	42.48	0.18	Other	0
40	4317.00	6.64	44.81	95.00	4295.11	179.06	230.50	212.40	313.44	42.66	1.30	Other	0
41	4412.00	7.10	46.39	95.00	4389.43	185.06	238.44	220.52	324.79	42.76	0.52	Other	0
42	4507.00	6.98	48.00	95.00	4483.71	190.94	246.36	229.06	336.4	42.92	0.24	Other	0
43	4602.00	6.75	47.31	95.00	4578.03	196.59	254.00	237.46	347.71	43.07	0.26	Other	0
44	4697.00	6.39	47.41	95.00	4672.40	202.05	261.37	245.45	358.55	43.20	0.38	Other	0
45	4792.00	6.08	46.67	95.00	4766.84	207.28	268.40	253.00	368.85	43.31	0.34	Other	0
46	4887.00	6.02	44.75	95.00	4861.31	212.55	275.39	260.17	378.85	43.37	0.22	Other	0
47	4982.00	5.55	46.59	95.00	4955.83	217.60	282.08	267.02	388.42	43.43	0.53	Other	0
48	5077.00	3.96	66.81	95.00	5050.51	220.57	286.53	273.37	396.02	43.65	2.41	Other	0
49	5172.00	2.13	102.26	95.00	5145.38	220.44	287.45	278.11	399.97	44.05	2.68	Other	0
50	5268.00	0.87	139.99	96.00	5241.34	219.05	286.51	280.32	400.84	44.37	1.60	Other	0
51	5363.00	0.56	172.37	95.00	5336.34	217.95	285.50	280.85	400.48	44.53	0.52	Other	0
52	5458.00	0.43	216.83	95.00	5431.33	217.25	284.75	280.70	399.84	44.59	0.41	Other	0
53	5553.00	0.37	218.85	95.00	5526.33	216.83	284.23	280.29	399.19	44.60	0.06	Other	0
54	5648.00	0.27	219.57	95.00	5621.33	216.50	283.82	279.95	398.66	44.61	0.11	Other	0
55	5743.00	0.26	223.14	95.00	5716.33	216.24	283.49	279.66	398.22	44.61	0.02	Other	0
56	5838.00	0.39	224.29	95.00	5811.33	215.94	283.10	279.29	397.68	44.61	0.14	Other	0
57	5933.00	0.38	203.83	95.00	5906.32	215.51	282.58	278.94	397.06	44.63	0.14	Other	0
58	6028.00	0.48	211.02	95.00	6001.32	214.97	281.95	278.61	396.38	44.66	0.12	Other	0
59	6124.00	0.40	232.08	96.00	6097.32	214.53	281.40	278.13	395.66	44.67	0.19	Other	0
60	6219.00	0.38	230.42	95.00	6192.32	214.25	281.00	277.63	395.02	44.65	0.02	Other	0
61	6314.00	0.19	226.11	95.00	6287.31	214.02	280.69	277.27	394.54	44.65	0.20	Other	0
62	6409.00	0.16	212.06	95.00	6382.31	213.84	280.46	277.09	394.26	44.65	0.05	Other	0
63	6504.00	0.14	221.40	95.00	6477.31	213.68	280.27	276.94	394.01	44.66	0.03	Other	0
64	6600.00	0.19	192.53	96.00	6573.31	213.47	280.02	276.83	393.76	44.67	0.10	Other	0
65	6695.00	0.13	154.24	95.00	6668.31	213.22	279.77	276.84	393.59	44.70	0.13	Other	0
66	6790.00	0.32	114.59	95.00	6763.31	212.95	279.56	277.13	393.65	44.75	0.25	Other	0
67	6885.00	0.38	124.71	95.00	6858.31	212.56	279.27	277.63	393.79	44.83	0.09	Other	0
68	6979.00	0.63	107.96	94.00	6952.31	212.07	278.94	278.38	394.08	44.94	0.31	Other	0
69	7075.00	0.42	77.98	96.00	7048.30	211.80	278.85	279.23	394.62	45.04	0.35	Other	0
70	7170.00	0.46	73.06	95.00	7143.30	211.83	279.03	279.93	395.25	45.09	0.06	Other	0
71	7265.00	0.59	72.51	95.00	7238.30	211.90	279.29	280.76	396.02	45.15	0.14	Other	0
72	7359.00	0.52	58.19	94.00	7332.29	212.08	279.66	281.59	396.86	45.20	0.16	Other	0
73	7453.00	0.60	60.70	94.00	7426.29	212.37	280.13	282.38	397.75	45.23	0.09	Other	0
74	7548.00	0.89	34.92	95.00	7521.28	213.01	280.97	283.23	398.96	45.23	0.46	Other	0
75	7643.00	1.05	35.88	95.00	7616.27	214.09	282.28	284.17	400.54	45.19	0.17	Other	0
76	7739.00	0.91	33.70	96.00	7712.25	215.20	283.63	285.10	402.16	45.15	0.15	Other	0
77	7833.00	0.88	34.12	94.00	7806.24	216.21	284.85	285.92	403.6	45.11	0.03	Other	0
78	7928.00	0.95	29.78	95.00	7901.23	217.30	286.14	286.72	405.07	45.06	0.10	Other	0
79	8118.00	1.13	15.18	190.00	8091.20	220.12	289.31	288.00	408.22	44.87	0.17	Other	0
80	8308.00	1.03	8.93	190.00	8281.16	223.37	292.81	288.75	411.23	44.60	0.08	Other	0
81	8403.00	0.48	357.90	95.00	8376.16	224.56	294.05	288.87	412.2	44.49	0.60	Other	0
82	8593.00	0.87	34.89	190.00	8566.14	226.31	296.03	289.67	414.17	44.38	0.30	Other	0
83	8689.00	1.03	45.23	96.00	8662.13	227.27	297.23	290.70	415.75	44.36	0.24	Other	0
84	8784.00	1.05	45.99	95.00	8757.11	228.18	298.44	291.93	417.48	44.37	0.03	Other	0
85	8879.00	10.48	353.95	95.00	8851.55	237.24	307.66	291.64	423.92	43.47	10.39	Other	0
86	8974.00	17.75	347.80	95.00	8943.62	260.34	330.44	287.67	438.11	41.04	7.80	Other	0
87	9069.00	24.40	343.03	95.00	9032.22	294.42	363.40	278.87	458.07	37.50	7.22	Other	0
88	9163.00	28.89	339.53	94.00	9116.23	336.29	403.26	265.25	482.68	33.34	5.06	Other	0
89	9258.00	32.95	332.42	95.00	9197.73	384.00	447.70	245.25	510.47	28.71	5.74	Other	0
90	9353.00	39.34	334.42	95.00	9274.41	438.34	497.81	220.26	544.36	23.87	6.84	Other	0
91	9449.00	45.10	336.46	96.00	9345.48	501.40	556.48	193.52	589.17	19.18	6.17	Other	0
92	9545.00	51.53	339.49	96.00	9409.30	572.07	622.93	166.74	644.86	14.99	7.10	Other	0
93	9640.00	62.42	341.09	95.00	9461.00	650.98	697.82	139.99	711.72	11.34	11.55	Other	0
94	9735.00	67.95	351.60	95.00	9500.95	737.00	781.46	119.85	790.6	8.72	11.60	Other	0
95	9830.00	76.73	347.31	95.00	9529.75	827.35	870.33	103.22	876.43	6.76	10.19	Other	0
96	9925.00	80.92	345.84	95.00	9548.16	920.52	960.95	81.58	964.41	4.85	4.66	Other	0
97	10020.00	87.55	347.18	95.00	9557.70	1014.97	1052.81	59.55	1054.5	3.24	7.12	Other	0
98	10116.00	91.51	350.28	96.00	9558.48	1110.91	1146.93	40.79	1147.65	2.04	5.24	Other	0
99	10211.00	90.69	351.88	95.00	9556.66	1205.71	1240.76	26.07	1241.03	1.20	1.89	Other	0
100	10306.00	88.16	351.51	95.00	9557.61	1300.44	1334.75	12.35	1334.81	0.53	2.69	Other	0
101	10401.00	89.31	352.47	95.00	9559.71	1395.12	1428.80	-0.89	1428.8	359.96	1.58	Other	0
102	10496.00	87.52	351.64	95.00	9562.34	1489.78	1522.85	-14.01	1522.91	359.47	2.08	Other	0
103	10591.00	88.95	347.99	95.00	9565.27	1584.64	1616.29	-30.80	1616.58	358.91	4.12	Other	0
104	10687.00	90.49	344.60	96.00	9565.73	1680.60	1709.53	-53.54	1710.37	358.21	3.88	Other	0
105	10782.00	91.30	343.15	95.00	9564.25	1775.39	1800.78	-79.92	1802.56	357.46	1.75	Other	0
106	10877.00	92.26	344.35	95.00	9561.30	1870.14	1891.94	-106.49	1894.94	356.78	1.62	Other	0
107	10972.00	94.13	346.15	95.00	9556.00	1964.91	1983.66	-130.64	1987.96	356.23	2.73	Other	0
108	11068.00	91.71	347.78	96.00	9551.11	2060.77	2077.05	-152.26	2082.63	355.81	3.04	Other	0
109	11163.00	91.71	347.77	95.00	9548.28	2155.73	2169.86	-172.37	2176.69	355.46	0.01	Other	0
110	11272.00	91.20	346.86	109.00	9545.51	2264.69	2276.16	-196.30	2284.61	355.07	0.96	SlimPulse	2
111	11368.00	91.10	349.47	96.00	9543.58	2360.66	2370.09	-215.98	2379.91	354.79	2.72	SlimPulse	2
112	11463.00	91.17	352.06	95.00	9541.70	2455.48	2463.84	-231.22	2474.66	354.64	2.73	SlimPulse	2
113	11558.00	91.07	351.00	95.00	9539.85	2550.22	2557.78	-245.21	2569.51	354.52	1.12	SlimPulse	2
114	11653.00	91.00	349.39	95.00	9538.13	2645.10	2651.38	-261.38	2664.23	354.37	1.70	SlimPulse	2
115	11748.00	90.62	348.04	95.00	9536.79	2740.07	2744.53	-279.97	2758.77	354.18	1.48	SlimPulse	2
116	11843.00	90.72	347.44	95.00	9535.68	2835.06	2837.35	-300.14	2853.18	353.96	0.64	SlimPulse	2
117	11938.00	91.37	348.94	95.00	9533.94	2930.03	2930.32	-319.58	2947.7	353.78	1.72	SlimPulse	2
118	12033.00	91.10	347.76	95.00	9531.90	3025.00	3023.34	-338.76	3042.26	353.61	1.27	SlimPulse	2
119	12128.00	90.62	347.67	95.00	9530.47	3119.99	3116.16	-358.97					

138	13936.00	90.68	347.42	95.00	9517.54	4927.83	4882.87	-742.48	4939	351.35	0.55	SlimPulse	2
139	14031.00	90.55	348.93	95.00	9516.52	5022.81	4975.84	-761.95	5033.84	351.29	1.60	SlimPulse	2
140	14126.00	90.44	348.19	95.00	9515.69	5117.79	5068.95	-780.79	5128.73	351.24	0.79	SlimPulse	2
141	14221.00	89.41	347.80	95.00	9515.82	5212.79	5161.87	-800.55	5223.58	351.18	1.16	SlimPulse	2
142	14317.00	89.72	347.78	96.00	9516.55	5308.78	5255.70	-820.85	5319.41	351.12	0.32	SlimPulse	2
143	14412.00	89.41	348.07	95.00	9517.27	5403.78	5348.59	-840.72	5414.27	351.07	0.45	SlimPulse	2
144	14507.00	89.21	346.93	95.00	9518.41	5498.77	5441.33	-861.28	5509.08	351.01	1.22	SlimPulse	2
145	14602.00	90.62	347.80	95.00	9518.55	5593.76	5534.03	-882.06	5603.88	350.94	1.74	SlimPulse	2
146	14698.00	89.55	346.65	96.00	9518.41	5689.76	5627.65	-903.29	5699.68	350.88	1.64	SlimPulse	2
147	14793.00	88.96	346.60	95.00	9519.65	5784.74	5720.07	-925.26	5794.42	350.81	0.62	SlimPulse	2
148	14888.00	89.45	346.70	95.00	9520.97	5879.72	5812.49	-947.20	5889.16	350.74	0.53	SlimPulse	2
149	14983.00	90.20	347.35	95.00	9521.26	5974.72	5905.06	-968.53	5983.96	350.69	1.04	SlimPulse	2
150	15078.00	91.10	346.73	95.00	9520.18	6069.71	5997.64	-989.83	6078.77	350.63	1.15	SlimPulse	2
151	15173.00	90.20	347.23	95.00	9519.10	6164.69	6090.19	-1011.23	6173.57	350.57	1.08	SlimPulse	2
152	15268.00	89.35	346.82	95.00	9519.47	6259.69	6182.76	-1032.56	6268.39	350.52	0.99	SlimPulse	2
153	15364.00	89.48	346.20	96.00	9520.45	6355.67	6276.10	-1054.95	6364.15	350.46	0.66	SlimPulse	2
154	15458.00	88.90	346.23	94.00	9521.78	6449.64	6367.39	-1077.35	6457.89	350.40	0.62	SlimPulse	2
155	15554.00	89.83	346.41	96.00	9522.85	6545.61	6460.66	-1100.05	6553.64	350.34	0.99	SlimPulse	2
156	15649.00	89.59	346.89	95.00	9523.33	6640.60	6553.09	-1121.99	6648.45	350.28	0.56	SlimPulse	2
157	15744.00	89.62	346.51	95.00	9523.98	6735.58	6645.54	-1143.84	6743.26	350.23	0.40	SlimPulse	2
158	15839.00	89.11	346.87	95.00	9525.03	6830.57	6737.98	-1165.71	6838.07	350.18	0.66	SlimPulse	2
159	15935.00	90.48	347.94	96.00	9525.38	6926.56	6831.67	-1186.64	6933.96	350.15	1.81	SlimPulse	2
160	16030.00	89.73	346.50	95.00	9525.20	7021.56	6924.31	-1207.66	7028.83	350.11	1.71	SlimPulse	2
161	16125.00	90.66	348.09	95.00	9524.88	7116.55	7016.98	-1228.55	7123.72	350.07	1.94	SlimPulse	2
162	16220.00	90.42	348.14	95.00	9523.99	7211.55	7109.94	-1248.11	7218.66	350.04	0.26	SlimPulse	2
163	16315.00	89.87	347.31	95.00	9523.74	7306.54	7202.76	-1268.31	7313.58	350.01	1.05	SlimPulse	2
164	16410.00	91.04	350.57	95.00	9522.99	7401.50	7295.98	-1286.53	7408.54	350.00	3.65	SlimPulse	2
165	16505.00	90.35	348.83	95.00	9521.84	7496.41	7389.44	-1303.52	7503.53	350.00	1.97	SlimPulse	2
166	16600.00	90.45	348.08	95.00	9521.17	7591.40	7482.52	-1322.53	7598.49	349.98	0.80	SlimPulse	2
167	16695.00	90.25	348.16	95.00	9520.59	7686.39	7575.48	-1342.08	7693.44	349.95	0.23	SlimPulse	2
168	16789.00	89.49	348.16	94.00	9520.81	7780.38	7667.48	-1361.37	7787.4	349.93	0.81	SlimPulse	2
169	16884.00	89.70	347.64	95.00	9521.48	7875.38	7760.37	-1381.28	7882.34	349.91	0.59	SlimPulse	2
170	16979.00	90.08	348.73	95.00	9521.66	7970.37	7853.35	-1400.74	7977.29	349.89	1.22	SlimPulse	2
171	17074.00	89.46	347.62	95.00	9522.04	8065.36	7946.33	-1420.20	8072.25	349.87	1.34	SlimPulse	2
172	17169.00	89.70	348.63	95.00	9522.74	8160.35	8039.30	-1439.75	8167.2	349.85	1.09	SlimPulse	2
173	17265.00	90.25	347.84	96.00	9522.78	8256.34	8133.28	-1459.32	8263.16	349.83	1.00	SlimPulse	2
174	17360.00	87.38	346.03	95.00	9524.75	8351.30	8225.79	-1480.79	8358.01	349.80	3.57	SlimPulse	2
175	17454.00	89.45	347.17	94.00	9527.35	8445.25	8317.18	-1502.57	8451.82	349.76	2.51	SlimPulse	2
176	17549.00	90.77	347.41	95.00	9527.16	8540.25	8409.85	-1523.47	8546.73	349.73	1.41	SlimPulse	2
177	17644.00	89.90	347.72	95.00	9526.61	8635.24	8502.62	-1543.92	8641.66	349.71	0.97	SlimPulse	2
178	17738.00	89.53	345.54	94.00	9527.08	8729.23	8594.07	-1565.66	8735.52	349.68	2.35	SlimPulse	2
179	17833.00	90.11	347.13	95.00	9527.37	8824.20	8686.38	-1588.10	8830.36	349.64	1.78	SlimPulse	2
180	17927.00	89.80	346.40	94.00	9527.45	8918.19	8777.88	-1609.62	8924.24	349.61	0.84	SlimPulse	2
181	18022.00	90.39	347.16	95.00	9527.29	9013.18	8870.36	-1631.35	9019.12	349.58	1.01	SlimPulse	2
182	18117.00	90.01	347.22	95.00	9526.96	9108.18	8962.99	-1652.41	9114.04	349.55	0.40	SlimPulse	2
183	18211.00	90.60	346.52	94.00	9526.46	9202.17	9054.53	-1673.76	9207.94	349.53	0.97	SlimPulse	2
184	18306.00	91.67	347.50	95.00	9524.58	9297.15	9147.08	-1695.11	9302.82	349.50	1.53	SlimPulse	2
185	18401.00	90.43	347.25	95.00	9522.84	9392.13	9239.77	-1715.87	9397.74	349.48	1.33	SlimPulse	2
186	18496.00	89.77	345.10	95.00	9522.67	9487.10	9332.01	-1738.57	9492.58	349.45	2.37	SlimPulse	2
187	18591.00	91.18	348.54	95.00	9521.88	9582.07	9424.49	-1760.23	9587.46	349.42	3.91	SlimPulse	2
188	18687.00	89.94	346.99	96.00	9520.94	9678.06	9518.30	-1780.57	9683.41	349.40	2.07	SlimPulse	2
189	18782.00	92.46	347.41	95.00	9518.95	9773.03	9610.91	-1801.61	9778.31	349.38	2.69	SlimPulse	2
190	18877.00	89.26	347.13	95.00	9517.53	9868.01	9703.55	-1822.54	9873.23	349.36	3.38	SlimPulse	2
191	18972.00	90.05	346.98	95.00	9518.10	9963.00	9796.14	-1843.82	9968.15	349.34	0.85	SlimPulse	2
192	19067.00	90.08	348.10	95.00	9517.99	10058.00	9888.90	-1864.32	10063.1	349.32	1.18	SlimPulse	2
193	19161.00	90.29	347.00	94.00	9517.69	10152.00	9980.68	-1884.58	10157.05	349.31	1.19	SlimPulse	2
194	19255.00	88.74	346.44	94.00	9518.48	10245.98	10072.16	-1906.17	10250.95	349.28	1.75	SlimPulse	2
195	19349.00	89.12	346.84	94.00	9520.24	10339.96	10163.60	-1927.89	10344.83	349.26	0.59	SlimPulse	2
196	19443.00	89.26	346.38	94.00	9521.57	10433.94	10255.04	-1949.66	10438.73	349.24	0.51	SlimPulse	2
197	19537.00	89.94	347.79	94.00	9522.23	10527.93	10346.66	-1970.66	10532.65	349.22	1.67	SlimPulse	2
198	19557.00	90.10	348.47	20.00	9522.22	10547.93	10366.23	-1974.78	10552.65	349.21	3.49	SlimPulse	2
199	19652.00	90.55	346.85	95.00	9521.68	10642.92	10459.03	-1995.08	10647.61	349.20	1.77	SlimPulse	2
200	19746.00	90.44	346.74	94.00	9520.87	10736.91	10550.54	-2016.55	10741.53	349.18	0.17	SlimPulse	2
201	19839.00	90.69	348.04	93.00	9519.95	10829.90	10641.29	-2036.85	10834.47	349.16	1.42	SlimPulse	2
202	19933.00	89.62	346.90	94.00	9519.70	10923.90	10733.05	-2057.25	10928.43	349.15	1.66	SlimPulse	2
203	20027.00	90.86	348.35	94.00	9519.30	11017.90	10824.86	-2077.39	11022.39	349.14	2.03	SlimPulse	2
204	20122.00	90.65	348.97	95.00	9518.05	11112.87	10918.00	-2096.07	11117.38	349.13	0.69	SlimPulse	2
205	20215.00	89.79	348.81	93.00	9517.69	11205.84	11009.25	-2113.99	11210.38	349.13	0.94	SlimPulse	2
206	20310.00	89.41	347.94	95.00	9518.36	11300.82	11102.30	-2133.13	11305.37	349.12	1.00	SlimPulse	2
207	20404.00	90.45	349.64	94.00	9518.47	11394.80	11194.50	-2151.40	11399.36	349.12	2.12	SlimPulse	2
208	20498.00	89.83	349.49	94.00	9518.24	11488.73	11286.95	-2168.43	11493.36	349.12	0.68	SlimPulse	2
209	20592.00	89.20	348.86	94.00	9519.04	11582.69	11379.27	-2186.08	11587.35	349.13	0.95	SlimPulse	2
210	20687.00	90.86	349.34	95.00	9518.99	11677.65	11472.55	-2204.05	11682.35	349.13	1.82	SlimPulse	2
211	20782.00	89.28	348.79	95.00	9518.87	11772.61	11565.82	-2222.07	11777.34	349.12	1.76	SlimPulse	2
212	20876.00	90.55	348.59	94.00	9519.01	11866.59	11658.00	-2240.50	11871.34	349.12	1.37	SlimPulse	2
213	20970.00	90.82	348.87	94.00	9517.89	11960.56	11750.18	-2258.87	11965.33	349.12	0.41	SlimPulse	2
214	21065.00	90.44	347.06	95.00	9516.84	12055.55	11843.08	-2278.68	12060.3	349.11	1.95	SlimPulse	2
215	21159.00	89.44	349.17	94.00	9516.94	12149.53	11935.06	-2298.03	12154.28	349.10	2.48	SlimPulse	2
216	21253.00	90.51	347.89	94.00	9516.98	12243.52	12027.18	-2316.73	12248.27	349.10	1.77	SlimPulse	2
217	21348.00	90.78	345.95	95.00	9515.91	12338.50	12119.70	-2338.22	12343.19	349.08	2.06	SlimPulse	2
218	21443.00	91.23	345.23	95.00	9514.25	12433.43	12211.70	-2361.86	12438	349.05	0.89	SlimPulse	2
219	21537.00	88.78	345.36	94.00	9514.24								



Oilfield Services, Central U.S. Land

Schlumberger Drilling and Measurements

Drilling Group

Geo Market Area: South West Texas Basin

7220 W I-H 20

Midland, Texas 79706

Phone : (432) 742-5400 (Main)

Fax : (432) 742-5606 (Shared)

Schlumberger

I, Jackie McGrath certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 21, 2017 through April 28, 2017, conduct or supervise the taking of the SlimPulse surveys from a depth of 11272.00 feet to a depth of 23018.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Diamondback E&P LLC for the UL Mason West Unit 8LS Well (Original Hole) API No. 42-003-47471 in Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

Jackie McGrath

Jackie McGrath

FE

May 6th, 2017