



Read and Stevens Inc.

North Lea Prospect T20S-R34E

Section 3

North Lea 3 Fed Com #1H

Survey: Survey #1

MOJO EOW Survey

07 January, 2015

This survey is correct to the best of my knowledge and is supported by actual field data.

_____(Signature)
Notarized this date ____ of ____, 2015

Notary Signature County of Denton State of Texas

MOJO

MAR 29 2016

MOJO EOW Survey

Company:	Read and Stevens Inc.			Local Co-ordinate Reference:	Well North Lea 3 Fed Com #1H
Project:	North Lea Prospect T20S-R34E			TVD Reference:	WELL @ 3700.6usft (Original Well Elev)
Site:	Section 3			MD Reference:	WELL @ 3700.6usft (Original Well Elev)
Well:	North Lea 3 Fed Com #1H			North Reference:	Grid
Wellbore:	North Lea 3 Fed Com #1H			Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fed Com #1H Actual			Database:	EDM 5000.1 Single User Db

Project	North Lea Prospect T20S-R34E		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site	Section 3		
Site Position:		Northing:	563,705.95 usft
From:	Lat/Long	Easting:	783,179.61 usft
Position Uncertainty:	1.0 usft	Slot Radius:	16 "
		Latitude:	32° 36' 7.938 N
		Longitude:	103° 32' 52.803 W
		Grid Convergence:	0.42 "

Well	North Lea 3 Fed Com #1H		
Well Position	+N-S 0.0 usft	Northing:	596,176.36 usft
	+E-W 0.0 usft	Easting:	785,442.99 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 36' 32.215 N
		Longitude:	103° 32' 26.133 W
		Ground Level:	3,678.6 usft

Wellbore	North Lea 3 Fed Com #1H		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	12/15/14	7.17
			Dip Angle (°)
			60.46
			Field Strength (nT)
			48,496

Design	North Lea 3 Fed Com #1H Actual		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S (usft)	+E-W (usft)
	(usft)	(usft)	(usft)
	0.0	0.0	179.70

Survey Program	Date	01/07/15		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
181.0	15,570.0	Survey #1 (North Lea 3 Fed Com #1H)		

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Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature							
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db							
Survey										
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
0.0	0.00	0.00	0.0	-3,700.9	0.0	0.0	586,176.36	785,442.99	0.00	0.00
181.0	0.10	310.30	181.0	-3,519.8	0.1	-0.1	586,176.46	785,442.87	-0.10	0.06
211.0	0.20	279.50	211.0	-3,489.8	0.1	-0.2	586,176.49	785,442.80	-0.13	0.42
301.0	0.20	289.90	301.0	-3,399.8	0.2	-0.5	586,176.57	785,442.49	-0.21	0.04
331.0	0.10	333.70	331.0	-3,369.8	0.2	-0.6	586,176.61	785,442.43	-0.25	0.48
425.0	0.50	8.10	425.0	-3,275.8	0.7	-0.9	586,177.09	785,442.46	-0.73	0.45
477.0	0.50	0.00	477.0	-3,223.8	1.2	-0.5	586,177.54	785,442.49	-1.18	0.14
541.0	0.50	6.40	541.0	-3,159.8	1.7	-0.5	586,178.10	785,442.52	-1.74	0.09
603.0	0.50	1.50	603.0	-3,097.8	2.3	-0.4	586,178.64	785,442.55	-2.28	0.07
670.0	0.50	355.00	670.0	-3,030.6	2.9	-0.5	586,179.22	785,442.54	-2.86	0.06
726.0	0.40	8.80	726.0	-2,974.8	3.3	-0.4	586,179.66	785,442.54	-3.30	0.26
827.0	0.40	13.90	827.0	-2,873.8	4.0	-0.3	586,180.35	785,442.68	-3.99	0.04
979.0	0.30	15.80	979.0	-2,721.6	4.9	-0.1	586,181.24	785,442.92	-4.88	0.07
1,071.0	0.10	50.70	1,071.0	-2,629.6	5.2	0.1	586,181.51	785,443.05	-5.15	0.28
1,160.0	0.10	50.80	1,160.0	-2,540.6	5.2	0.2	586,181.60	785,443.18	-5.24	0.02
1,259.0	0.10	113.10	1,259.0	-2,441.6	5.3	0.3	586,181.62	785,443.33	-5.26	0.10
1,352.0	0.20	134.50	1,352.0	-2,348.6	5.1	0.5	586,181.48	785,443.52	-5.11	0.12
1,450.0	0.40	150.80	1,450.0	-2,250.6	4.7	0.8	586,181.06	785,443.61	-4.89	0.22
1,547.0	0.70	141.50	1,547.0	-2,153.6	3.9	1.4	586,180.30	785,444.34	-3.93	0.32
1,639.0	1.39	151.74	1,639.0	-2,061.6	2.6	2.2	586,179.87	785,445.22	-2.50	0.78
Rustler										
1,640.0	1.40	151.80	1,640.0	-2,060.6	2.5	2.2	586,179.95	785,445.23	-2.48	0.78
1,766.0	1.40	148.12	1,766.0	-1,934.7	-0.2	3.8	586,176.19	785,446.77	0.19	0.07
13 3/8"										
1,771.0	1.40	147.98	1,770.9	-1,929.7	-0.3	3.8	586,176.09	785,446.84	0.29	0.07
Top of Salt										
1,801.0	1.40	147.10	1,800.9	-1,899.7	-0.9	4.2	586,175.47	785,447.23	0.91	0.07
1,896.0	1.50	136.00	1,895.9	-1,804.7	-2.8	5.7	586,173.60	785,448.72	2.79	0.31

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Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (Azimuth) (°)	TVD (usft)	TVDGS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
1,992.0	1.80	132.30	1,991.8	-1,708.8	-4.7	7.7	586,171.88	785,450.71	4.72	0.33
2,088.0	2.20	135.00	2,087.8	-1,812.8	-7.0	10.1	586,169.36	785,453.13	7.05	0.43
2,183.0	2.40	134.80	2,182.7	-1,817.9	-9.7	12.8	586,166.68	785,455.84	9.75	0.21
2,268.0	2.80	135.40	2,267.6	-1,433.0	-12.4	15.6	586,163.95	785,458.56	12.49	0.47
2,363.0	1.20	109.80	2,362.6	-1,338.0	-14.4	18.1	586,161.96	785,461.13	14.49	1.89
2,458.0	0.60	95.70	2,457.5	-1,243.1	-14.6	19.6	586,161.57	785,462.56	14.89	0.67
2,552.0	1.10	92.40	2,551.5	-1,149.1	-14.9	21.0	586,161.49	785,463.95	14.98	0.53
2,648.0	1.70	75.20	2,647.5	-1,053.1	-14.6	23.3	586,161.81	785,466.25	14.67	0.76
2,743.0	2.60	81.80	2,742.4	-958.2	-13.9	26.8	586,162.48	785,469.74	14.02	0.98
2,838.0	2.20	78.20	2,837.4	-863.2	-13.2	30.7	586,163.16	785,473.66	13.36	0.45
2,934.0	2.00	73.50	2,933.3	-767.3	-12.3	34.1	586,164.01	785,477.07	12.53	0.27
3,029.0	1.10	42.90	3,027.3	-673.3	-11.2	36.3	586,165.14	785,479.26	11.41	1.27
3,123.0	1.60	14.90	3,122.2	-578.4	-9.3	37.2	586,167.09	785,480.22	9.47	0.86
3,219.0	1.20	15.20	3,218.2	-482.4	-7.0	37.8	586,168.35	785,480.83	7.20	0.42
3,314.0	0.60	30.70	3,313.2	-387.4	-5.6	38.4	586,170.74	785,481.34	5.82	0.68
3,382.0	0.74	25.89	3,381.2	-319.4	-4.9	38.7	586,171.44	785,481.71	6.12	0.22
Base of Salt/Tarsill										
3,410.0	0.80	24.40	3,409.2	-291.4	-4.6	38.9	586,171.78	785,481.87	4.78	0.22
3,505.0	1.20	31.30	3,504.2	-196.4	-3.1	39.7	586,173.24	785,482.68	3.33	0.44
3,595.0	0.39	320.46	3,594.2	-109.4	-2.1	40.0	586,174.28	785,482.96	2.29	1.26
Yates										
3,600.0	0.40	311.40	3,599.2	-101.4	-2.1	39.9	586,174.31	785,482.93	2.26	1.26
3,695.0	0.40	256.90	3,694.2	-6.4	-1.9	39.4	586,174.45	785,482.36	2.11	0.39
3,791.0	0.40	330.50	3,790.2	89.6	-1.7	38.9	586,174.67	785,481.87	1.90	0.50
3,887.0	0.10	312.20	3,886.2	185.6	-1.3	38.7	586,175.02	785,481.64	1.55	0.32
3,981.0	0.20	296.50	3,980.2	279.6	-1.2	38.4	586,175.14	785,481.43	1.42	0.11
4,005.0	0.32	289.17	4,004.2	303.6	-1.2	38.3	586,175.19	785,481.33	1.38	0.53
7 Rivers										

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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLag (°/100usft)
4,077.0	0.70	282.80	4,079.2	375.6	-1.0	37.7	586,175.35	785,480.71	1.21	0.53
4,172.0	0.80	291.40	4,171.1	470.5	-0.6	36.5	586,175.72	785,479.53	0.83	0.16
4,267.0	0.60	258.20	4,266.1	565.5	-0.5	35.4	586,175.86	785,478.43	0.68	0.47
4,363.0	0.20	314.00	4,362.1	661.5	-0.5	34.8	586,175.88	785,477.81	0.67	0.54
4,458.0	0.60	291.80	4,457.1	756.5	-0.2	34.2	586,176.18	785,477.23	0.36	0.44
4,552.0	0.50	278.10	4,551.1	850.5	0.1	33.4	586,176.42	785,476.37	0.12	0.18
4,645.0	0.50	295.04	4,644.1	943.5	0.3	32.6	586,176.64	785,475.60	-0.11	0.16
Queen										
4,647.0	0.50	295.40	4,646.1	945.5	0.3	32.6	586,176.65	785,475.58	-0.12	0.16
4,742.0	0.30	258.50	4,741.1	1,040.5	0.4	32.0	586,176.78	785,474.97	-0.25	0.33
4,837.0	0.10	36.00	4,836.1	1,135.5	0.4	31.8	586,176.80	785,474.77	-0.27	0.40
4,933.0	0.80	330.40	4,932.1	1,231.5	1.1	31.5	586,177.45	785,474.46	-0.92	0.80
4,965.0	0.77	330.82	4,964.1	1,263.5	1.5	31.3	586,177.83	785,474.26	-1.31	0.11
Penrose										
5,028.0	0.70	332.10	5,027.1	1,326.5	2.2	30.9	586,178.54	785,473.89	-2.02	0.11
5,123.0	1.50	321.00	5,122.1	1,421.5	3.7	29.8	586,180.02	785,472.84	-3.50	0.87
5,218.0	0.70	206.90	5,217.1	1,516.5	4.1	28.8	586,180.47	785,471.79	-3.96	2.00
5,305.0	1.87	174.71	5,304.1	1,603.5	2.2	28.7	586,179.58	785,471.68	-2.07	1.53
Grayburg										
5,314.0	2.00	173.60	5,313.1	1,612.5	1.9	28.7	586,178.26	785,471.71	-1.77	1.53
5,409.0	1.40	169.90	5,408.0	1,707.4	-0.9	29.1	586,175.49	785,472.10	1.02	0.64
5,505.0	0.90	219.10	5,504.0	1,803.4	-2.6	28.8	586,173.75	785,471.83	2.76	1.10
5,530.0	1.00	230.00	5,529.0	1,828.4	-2.9	28.6	586,173.46	785,471.54	3.05	0.82
5,607.0	1.07	222.09	5,606.0	1,905.4	-3.9	27.6	586,172.49	785,470.54	4.01	0.21
9 5/8"										
5,610.0	1.07	221.81	5,609.0	1,908.4	-3.9	27.5	586,172.45	785,470.51	4.05	0.21
Dataware										
5,637.0	1.10	219.30	5,636.0	1,935.4	-4.3	27.2	586,172.06	785,470.17	4.44	0.21

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5,733.0	1.20	221.10	5,732.0	2,031.4	-5.8	25.9	586,170.59	785,458.93	5.91	0.11
5,828.0	1.10	216.00	5,826.9	2,126.3	-7.3	24.8	586,169.10	785,457.74	7.39	0.15
5,923.0	1.00	218.00	5,921.9	2,221.3	-8.8	23.7	586,167.71	785,456.99	8.77	0.11
6,019.0	0.90	219.90	6,017.9	2,317.3	-9.9	22.7	586,166.47	785,455.89	10.01	0.11
6,114.0	0.70	204.10	6,112.9	2,412.3	-11.0	22.0	586,165.37	785,454.98	11.10	0.31
6,209.0	1.00	193.60	6,207.9	2,507.3	-12.3	21.6	586,164.04	785,454.55	12.44	0.36
6,304.0	1.10	190.20	6,302.9	2,602.3	-14.0	21.2	586,162.33	785,454.19	14.14	0.12
6,400.0	1.10	196.20	6,398.9	2,698.3	-15.8	20.8	586,160.54	785,453.77	15.93	0.12
6,495.0	1.00	203.50	6,493.8	2,793.2	-17.5	20.2	586,158.91	785,453.19	17.56	0.18
6,590.0	1.00	211.60	6,588.8	2,888.2	-18.8	19.4	586,157.44	785,452.42	19.02	0.15
6,686.0	1.10	213.90	6,684.8	2,984.2	-20.4	18.5	586,155.98	785,451.47	20.50	0.11
6,781.0	1.20	218.60	6,779.8	3,079.2	-21.9	17.4	586,154.43	785,450.34	22.02	0.14
6,877.0	1.40	222.40	6,875.8	3,175.2	-23.5	15.9	586,152.77	785,450.92	23.67	0.23
6,972.0	1.40	224.60	6,970.7	3,270.1	-25.3	14.3	586,151.09	785,457.32	25.34	0.06
7,068.0	1.50	224.30	7,066.7	3,366.1	-27.0	12.6	586,149.36	785,455.62	27.07	0.10
7,164.0	1.80	211.70	7,162.7	3,462.1	-29.2	11.0	586,147.18	785,453.95	29.24	0.49
7,259.0	3.10	212.70	7,257.6	3,557.0	-32.6	8.8	586,143.74	785,451.78	32.86	1.37
7,355.0	5.10	211.30	7,353.3	3,652.7	-38.4	5.2	586,137.91	785,448.16	38.47	2.09
7,450.0	3.70	208.40	7,448.0	3,747.4	-44.8	1.5	586,131.61	785,444.51	44.76	1.49
7,546.0	2.00	211.70	7,543.0	3,843.3	-48.9	-0.8	586,127.46	785,442.16	48.90	1.78
7,641.0	1.70	203.90	7,638.9	3,938.3	-51.6	-2.3	586,124.70	785,440.71	51.69	0.41
7,737.0	0.30	97.00	7,734.9	4,034.3	-52.9	-2.6	586,123.43	785,440.39	52.92	1.89
7,832.0	1.20	69.10	7,829.8	4,129.2	-52.6	-1.4	586,123.75	785,441.56	52.80	1.00
7,928.0	1.30	70.70	7,925.8	4,225.2	-51.9	0.5	586,124.47	785,443.53	51.89	0.11
8,023.0	1.40	72.70	8,020.8	4,320.2	-51.2	2.7	586,125.17	785,445.65	51.20	0.12
8,119.0	1.00	83.50	8,116.8	4,416.2	-50.7	4.6	586,125.62	785,447.61	50.77	0.48
8,215.0	1.00	41.90	8,212.8	4,512.2	-50.0	6.0	586,126.33	785,449.00	50.06	0.74

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Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature							
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db							
Survey										
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8,240.0	1.07	35.93	8,237.8	4,537.2	-49.7	6.3	586,126.88	785,449.28	49.71	0.50
Bone Spring Lime										
8,311.0	1.30	22.80	8,308.7	4,608.1	-48.4	7.0	586,127.96	785,449.98	48.44	0.50
8,404.0	1.30	10.70	8,401.7	4,701.1	-46.4	7.6	586,129.97	785,450.58	46.43	0.29
8,499.0	1.10	1.50	8,496.7	4,796.1	-44.4	7.8	586,131.94	785,450.81	44.46	0.29
8,595.0	1.10	357.70	8,592.7	4,892.1	-42.6	7.8	586,133.78	785,450.80	42.62	0.08
8,691.0	1.50	342.60	8,688.7	4,988.1	-40.5	7.4	586,135.90	785,450.36	40.50	0.58
8,750.0	1.34	327.80	8,747.8	5,047.0	-39.1	6.8	586,137.23	785,449.78	39.17	0.67
Avalon Shale										
8,786.0	1.30	317.60	8,783.6	5,063.0	-38.5	6.3	586,137.88	785,449.28	38.51	0.67
8,881.0	1.50	7.10	8,878.6	5,178.0	-36.4	5.7	586,139.91	785,448.71	36.48	1.25
8,976.0	1.20	6.90	8,973.6	5,273.0	-34.2	6.0	586,142.14	785,448.98	34.26	0.32
9,072.0	0.60	343.60	9,069.6	5,369.0	-32.7	6.0	586,143.62	785,448.96	32.78	0.72
9,167.0	1.00	352.30	9,164.6	5,464.0	-31.4	5.7	586,144.91	785,448.71	31.48	0.44
9,263.0	0.60	32.20	9,260.5	5,559.9	-30.0	6.0	586,146.31	785,448.96	30.08	0.67
9,358.0	0.60	32.20	9,355.5	5,654.9	-29.1	6.6	586,147.29	785,449.58	29.10	0.21
9,440.0	0.61	9.78	9,437.5	5,736.9	-28.3	6.0	586,148.01	785,449.87	28.38	0.29
1st Bone Spring Sand										
9,454.0	0.50	6.30	9,451.5	5,750.9	-28.2	6.9	586,148.14	785,449.88	28.26	0.29
9,549.0	0.50	355.90	9,546.5	5,845.9	-27.4	6.9	586,148.96	785,449.89	27.43	0.09
9,644.0	0.40	222.20	9,641.5	5,940.9	-27.2	6.7	586,149.13	785,449.84	27.26	0.87
9,739.0	0.50	199.70	9,736.5	6,035.9	-27.9	6.3	586,148.48	785,449.28	27.90	0.21
9,834.0	0.30	210.20	9,831.5	6,130.9	-28.5	6.0	586,147.89	785,449.01	28.50	0.22
9,929.0	0.50	283.30	9,926.5	6,225.9	-28.6	5.5	586,147.77	785,448.48	28.62	0.53
9,960.0	0.75	276.05	9,957.5	6,258.9	-28.5	5.2	586,147.62	785,448.15	28.57	0.66
2nd Bone Spring Sand										
10,025.0	1.30	270.20	10,022.5	6,321.9	-28.5	4.0	586,147.87	785,448.99	28.51	0.86
10,120.0	1.50	248.30	10,117.5	6,416.9	-28.9	1.8	586,147.41	785,444.75	28.96	0.60

MOJO EOW Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 3 Fad Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL @ 3700.6usft (Original Well Elev)
Site:	Section 3	MD Reference:	WELL @ 3700.6usft (Original Well Elev)
Well:	North Lea 3 Fad Com #1H	North Reference:	Grid
Wellbore:	North Lea 3 Fad Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fad Com #1H Actual	Database:	EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
10,180.0	1.70	248.60	10,187.5	6,486.9	-29.7	-0.1	586,146.70	785,442.93	29.66	0.29
10,220.0	2.20	250.50	10,217.4	6,519.8	-30.0	-1.0	586,146.34	785,441.98	30.01	1.68
10,315.0	4.80	201.40	10,312.3	6,611.7	-34.3	-4.2	586,142.03	785,438.81	34.31	3.94
10,365.0	9.90	191.30	10,361.6	6,661.2	-40.5	-5.8	586,135.86	785,437.20	40.47	10.48
10,411.0	14.50	193.10	10,406.8	6,706.2	-50.0	-7.9	586,129.37	785,435.12	49.95	10.03
10,458.0	15.50	194.20	10,452.2	6,751.6	-61.8	-10.7	586,114.55	785,432.25	61.75	2.21
10,507.0	17.80	186.20	10,499.1	6,798.5	-75.6	-13.2	586,100.76	785,429.83	75.53	6.62
10,597.0	20.60	182.90	10,546.4	6,845.8	-92.0	-14.4	586,084.37	785,428.58	91.91	6.00
10,572.0	21.64	181.69	10,560.3	6,859.7	-97.4	-14.6	586,078.97	785,428.34	97.31	7.49
3rd Bone Spring Sand										
10,603.0	23.80	179.50	10,588.9	6,888.3	-109.4	-14.9	586,067.00	785,428.23	109.28	7.49
10,651.0	27.90	180.60	10,632.1	6,931.5	-130.3	-14.8	586,048.08	785,428.20	130.20	8.60
Cross North Hard Boundary @ 10651 RTMD/10632 RTVD										
10,699.0	31.50	181.10	10,673.8	6,973.2	-154.1	-15.1	586,022.31	785,427.84	153.98	7.52
10,745.0	34.80	178.00	10,712.3	7,011.7	-179.2	-14.9	585,987.16	785,428.07	179.12	8.06
10,794.0	39.30	178.70	10,751.4	7,050.8	-208.7	-14.1	585,967.66	785,428.91	208.63	9.22
10,840.0	43.10	180.90	10,786.0	7,085.4	-239.0	-14.0	585,937.37	785,428.99	238.92	8.84
10,890.0	48.00	182.50	10,821.0	7,120.4	-274.7	-15.1	585,901.71	785,427.91	274.57	10.06
10,936.0	54.40	182.70	10,849.8	7,149.2	-310.5	-15.7	585,865.92	785,429.28	310.36	13.92
10,985.0	60.30	183.20	10,876.3	7,175.7	-351.8	-18.8	585,824.73	785,424.15	351.53	12.07
11,031.0	66.40	184.00	10,896.6	7,196.3	-392.6	-21.4	585,783.72	785,421.67	392.63	13.35
11,080.0	71.90	181.40	10,914.3	7,213.7	-438.4	-23.6	585,738.00	785,419.43	438.24	12.27
11,144.0	80.70	180.70	10,929.5	7,228.9	-500.5	-24.7	585,675.90	785,418.30	500.34	13.79
11,176.0	85.20	180.50	10,933.4	7,232.8	-532.2	-25.0	585,644.15	785,417.87	532.08	14.08
11,207.0	87.30	180.90	10,935.4	7,234.8	-563.2	-25.4	585,613.22	785,417.59	563.01	6.90
11,238.0	86.60	180.30	10,937.1	7,236.5	-595.1	-25.7	585,581.27	785,417.25	594.96	2.88
11,271.0	86.50	180.20	10,939.1	7,238.5	-627.0	-25.9	585,549.33	785,417.11	626.90	0.44

MOJO EOW Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 3 Fed Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL @ 3700.6usft (Original Well Elev)
Site:	Section 3	MD Reference:	WELL @ 3700.6usft (Original Well Elev)
Well:	North Lea 3 Fed Com #1H	North Reference:	Grid
Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	D Leg (°/100usft)
11,317.0	86.80	180.10	10,941.7	7,241.1	-873.0	-26.0	585,503.41	785,416.99	672.82	0.89
11,366.0	87.30	179.40	10,944.3	7,243.7	-721.9	-25.8	585,454.48	785,417.21	721.76	1.75
11,462.0	87.70	179.30	10,948.5	7,247.9	-817.8	-24.7	585,358.58	785,418.30	817.66	0.43
11,512.0	88.00	179.10	10,950.3	7,249.7	-867.8	-24.0	585,308.62	785,418.99	867.62	0.72
11,557.0	88.40	178.80	10,951.7	7,251.1	-912.7	-23.2	585,263.65	785,419.82	912.60	1.11
11,604.0	88.80	178.60	10,952.8	7,252.3	-959.7	-22.1	585,216.68	785,420.88	959.58	0.95
11,653.0	89.20	178.30	10,953.7	7,253.1	-1,008.7	-20.8	585,167.70	785,422.21	1,008.56	1.02
11,748.0	88.70	178.70	10,955.5	7,254.9	-1,103.8	-19.1	585,072.74	785,423.87	1,103.53	1.56
11,844.0	89.90	180.00	10,956.9	7,256.3	-1,199.6	-18.9	584,976.75	785,424.12	1,199.52	0.99
11,940.0	90.90	180.10	10,956.5	7,255.9	-1,295.5	-19.0	584,880.76	785,424.03	1,295.52	1.36
12,035.0	90.00	179.60	10,955.7	7,255.1	-1,390.6	-18.7	584,785.76	785,424.28	1,390.51	1.08
12,130.0	89.60	179.10	10,956.1	7,255.5	-1,485.6	-17.6	584,690.77	785,425.38	1,485.51	0.67
12,226.0	88.40	178.70	10,957.8	7,257.2	-1,581.6	-15.8	584,594.81	785,427.20	1,581.48	1.32
12,321.0	88.70	179.40	10,960.2	7,259.6	-1,676.5	-14.2	584,498.66	785,428.78	1,676.44	0.80
12,416.0	89.60	180.10	10,961.6	7,261.0	-1,771.5	-13.6	584,404.87	785,429.19	1,771.43	1.20
12,511.0	90.40	181.20	10,961.6	7,261.0	-1,866.5	-14.9	584,309.88	785,428.11	1,866.42	1.43
12,606.0	89.90	180.30	10,961.3	7,260.7	-1,961.5	-16.1	584,214.89	785,426.87	1,961.40	1.08
12,702.0	90.20	180.40	10,961.2	7,260.6	-2,057.5	-16.7	584,118.90	785,426.28	2,057.39	0.33
12,797.0	89.60	179.00	10,961.4	7,260.8	-2,152.5	-16.2	584,023.90	785,426.78	2,152.39	1.60
12,892.0	90.00	179.20	10,961.7	7,261.1	-2,247.5	-14.7	583,928.92	785,426.27	2,247.38	0.47
12,987.0	90.30	179.20	10,961.5	7,260.9	-2,342.5	-13.4	583,833.93	785,429.60	2,342.36	0.32
13,082.0	89.90	179.00	10,961.3	7,260.7	-2,437.5	-11.9	583,738.94	785,431.09	2,437.37	0.47
13,178.0	90.20	178.70	10,961.2	7,260.6	-2,533.5	-10.9	583,642.97	785,433.02	2,533.36	0.44
13,273.0	90.80	179.20	10,960.4	7,259.8	-2,628.4	-8.2	583,547.99	785,434.76	2,628.35	0.82
13,369.0	91.80	178.60	10,958.2	7,257.6	-2,724.4	-6.4	583,452.03	785,436.60	2,724.32	1.21
13,467.0	90.10	177.90	10,956.6	7,256.0	-2,822.3	-3.4	583,354.10	785,439.59	2,822.27	1.88
13,563.0	89.00	177.90	10,957.4	7,256.8	-2,918.3	0.1	583,258.17	785,443.11	2,918.21	1.15

MOJO EQW Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 3 Fed Com #1H
Project:	North Lea Prospect T209-R34E	TVD Reference:	WELL @ 3700.6usft (Original Well Elev)
Site:	Section 3	MD Reference:	WELL @ 3700.6usft (Original Well Elev)
Well:	North Lea 3 Fed Com #1H	North Reference:	Grid
Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
13,659.0	89.10	177.60	10,958.9	7,258.3	-3,014.2	3.9	583,162.26	785,446.88	3,014.15	0.33
13,755.0	89.10	179.30	10,960.5	7,259.9	-3,110.1	6.5	583,066.31	785,449.48	3,110.11	1.77
13,851.0	88.60	179.70	10,962.4	7,261.8	-3,206.1	7.3	582,970.34	785,450.31	3,206.09	0.67
13,947.0	88.00	180.10	10,964.4	7,263.8	-3,302.1	7.5	582,874.36	785,450.46	3,302.07	0.58
14,040.0	88.20	180.20	10,965.9	7,265.3	-3,395.1	7.3	582,781.38	785,450.24	3,395.05	0.24
14,130.0	88.20	180.20	10,967.9	7,267.3	-3,485.0	6.9	582,691.40	785,449.92	3,485.02	1.11
14,227.0	87.60	180.10	10,971.4	7,270.8	-3,582.0	6.7	582,594.47	785,449.67	3,581.95	0.63
14,323.0	87.90	180.00	10,975.2	7,274.6	-3,677.9	6.6	582,498.55	785,449.50	3,677.88	0.33
14,416.0	89.10	180.80	10,977.7	7,277.1	-3,770.9	5.9	582,405.59	785,448.94	3,770.84	1.55
14,511.0	88.50	180.30	10,979.6	7,279.0	-3,865.8	5.0	582,310.62	785,448.03	3,865.81	0.82
14,607.0	88.80	180.10	10,981.9	7,281.3	-3,961.8	4.7	582,214.64	785,447.69	3,961.78	0.38
14,701.0	89.40	180.10	10,983.4	7,282.8	-4,055.8	4.5	582,120.66	785,447.53	4,055.76	0.84
14,804.0	89.60	180.40	10,984.3	7,283.7	-4,158.8	4.1	582,017.67	785,447.08	4,158.75	0.35
14,900.0	89.80	180.80	10,984.8	7,284.2	-4,254.8	3.1	581,921.68	785,446.07	4,254.74	0.47
14,995.0	88.70	179.80	10,986.0	7,285.4	-4,349.8	2.8	581,826.69	785,445.74	4,349.72	1.71
15,090.0	86.30	180.00	10,990.2	7,289.6	-4,444.7	3.1	581,731.79	785,446.07	4,444.63	2.58
15,186.0	86.90	179.60	10,995.9	7,295.3	-4,540.5	3.4	581,635.96	785,446.41	4,540.46	0.75
15,282.0	87.30	179.80	11,000.7	7,300.1	-4,636.4	4.1	581,540.09	785,447.08	4,636.33	0.42
15,377.0	87.40	179.60	11,005.1	7,304.5	-4,731.3	4.8	581,445.20	785,447.74	4,731.23	0.11
15,425.0	87.50	179.90	11,007.2	7,306.6	-4,779.2	5.0	581,397.25	785,447.95	4,779.18	0.66
Cross South Hard Boundary @ 15425 RMD/11007 RTVD										
15,473.0	87.60	180.20	11,009.3	7,308.7	-4,827.2	4.9	581,349.29	785,447.91	4,827.14	0.86
15,511.0	87.70	179.30	11,010.9	7,310.3	-4,865.1	5.1	581,311.32	785,448.07	4,865.11	2.38
15,570.0	87.70	179.30	11,013.2	7,312.6	-4,924.1	5.8	581,252.38	785,448.79	4,924.06	0.00

MOJO EOW Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 3 Fed Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL @ 3700.5usft (Original Well Elev)
Site:	Section 3	MD Reference:	WELL @ 3700.5usft (Original Well Elev)
Well:	North Lea 3 Fed Com #1H	North Reference:	Grid
Wellbore:	North Lea 3 Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea 3 Fed Com #1H Actual	Database:	EDM 5000.1 Single User Db

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,766.0	1,765.9	13 3/8"	13-3/8	16	
5,607.0	5,606.0	9 5/8"	9-5/8	12-1/4	

Formations				
Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (")	
4,005.0	4,004.2	7 Rivers	0.00	
6,240.0	6,237.8	Bone Spring Lime	0.00	
3,382.0	3,381.2	Base of Salt/Tensill	0.00	
3,595.0	3,594.2	Yates	0.00	
1,771.0	1,770.9	Top of Salt	0.00	
4,845.0	4,844.1	Queen	0.00	
9,440.0	9,437.5	1st Bone Spring Sand	0.00	
5,305.0	5,304.1	Grayburg	0.00	
1,639.0	1,639.0	Rustler	0.00	
5,610.0	5,609.0	Delaware	0.00	
4,965.0	4,964.1	Penrose	0.00	
9,960.0	9,957.5	2nd Bone Spring Sand	0.00	
8,750.0	8,747.6	Avalon Shale	0.00	
10,572.0	10,560.3	3rd Bone Spring Sand		

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,651.0	10,632.1	-130.3	-14.8	Cross North Hard Boundary @ 10651 RMD/10632 RTVD
15,425.0	11,007.2	-4,779.2	5.0	Cross South Hard Boundary @ 15425 RMD/ 11007 RTVD

Checked By: _____ Approved By: _____ Date: _____