



Read and Stevens Inc.

North Lea Prospect T20S-R34E

Section 3

North Lea Federal Com 3 #3H

HOBBS OCD

JUL 28 2015

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Survey: Survey #1

MOJO Survey

25 February, 2015

JUL 30 2015



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	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:	583,705.95 usft
From:	Lat/Long	Easting:	783,179.81 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 Federal Com 3 #3H		
Well Position	+N/-S	0.0 usft	Northing: 586,150.20 usft
	+E/-W	0.0 usft	Easting: 782,801.05 usft
Position Uncertainty	1.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 36' 32.150 N
		Longitude:	103° 32' 57.020 W
		Ground Level:	3,667.7 usft

Wellbore	North Lea Federal Com 3 #3H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	12/28/12	7.41
			Dip Angle (°)
			60.51
			Field Strength (nT)
			48,695

Design	North Lea Federal Com 3 #3H		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.04

Survey Program	Date	02/24/15		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
219.0	15,455.0	Survey #1 (North Lea Federal Com 3 #3H)		



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

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3,689.7	0.0	0.0	0.00	0.0	586,150.20	782,801.05	
219.0	1.00	131.40	219.0	-3,470.7	-1.3	1.4	0.46	1.3	586,148.93	782,802.48	
304.0	1.00	129.90	304.0	-3,385.7	-2.2	2.6	0.03	2.3	586,147.97	782,803.61	
366.0	1.40	141.40	366.0	-3,323.7	-3.2	3.4	0.75	3.2	586,147.03	782,804.49	
486.0	1.20	139.40	485.9	-3,203.8	-5.3	5.2	0.17	5.4	586,144.93	782,806.23	
517.0	1.30	162.10	516.9	-3,172.8	-5.8	5.5	1.62	5.9	586,144.35	782,806.55	
610.0	1.40	145.80	609.9	-3,079.8	-7.8	6.5	0.43	7.9	586,142.40	782,807.51	
700.0	1.60	166.20	699.9	-2,989.8	-9.9	7.4	0.63	10.0	586,140.27	782,808.43	
824.0	1.60	163.80	823.8	-2,865.9	-13.3	8.3	0.05	13.4	586,136.93	782,809.32	
944.0	1.80	164.80	943.8	-2,745.9	-16.7	9.2	0.17	16.8	586,133.50	782,810.28	
1,032.0	1.70	169.70	1,031.7	-2,658.0	-19.3	9.8	0.20	19.5	586,130.89	782,810.88	
1,119.0	1.60	168.10	1,118.7	-2,571.0	-21.8	10.3	0.13	21.9	586,128.43	782,811.36	
1,210.0	1.10	168.00	1,209.7	-2,480.0	-23.9	10.8	0.55	24.0	586,126.33	782,811.80	
1,297.0	0.60	187.70	1,296.7	-2,393.0	-25.1	10.9	0.66	25.3	586,125.06	782,811.92	
1,384.0	0.80	215.50	1,383.6	-2,306.1	-26.1	10.5	0.45	26.3	586,124.12	782,811.50	
1,473.0	0.60	187.40	1,472.6	-2,217.1	-27.0	10.0	0.44	27.2	586,123.15	782,811.08	
1,560.0	0.80	191.40	1,559.6	-2,130.1	-28.1	9.9	0.24	28.3	586,122.10	782,810.90	
1,571.8	0.74	192.95	1,571.4	-2,118.3	-28.3	9.8	0.52	28.4	586,121.95	782,810.87	
Rustler											
1,648.0	0.40	213.50	1,647.6	-2,042.1	-29.0	9.6	0.52	29.1	586,121.24	782,810.61	
1,690.0	0.50	172.80	1,689.6	-2,000.1	-29.3	9.5	0.78	29.4	586,120.94	782,810.55	
1,701.8	0.56	173.88	1,701.4	-1,988.3	-29.4	9.5	0.53	29.5	586,120.83	782,810.57	
Top of Salt											
1,707.0	0.59	174.29	1,706.6	-1,983.1	-29.4	9.5	0.53	29.6	586,120.78	782,810.57	
13 3/8"											
1,728.0	0.70	175.60	1,727.6	-1,962.1	-29.7	9.5	0.53	29.8	586,120.54	782,810.59	
1,816.0	0.40	194.90	1,815.6	-1,874.1	-30.5	9.5	0.40	30.6	586,119.71	782,810.55	
1,904.0	0.50	187.80	1,903.6	-1,786.1	-31.2	9.4	0.13	31.3	586,119.03	782,810.42	



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Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
1,991.0	0.20	110.40	1,990.6	-1,699.1	-31.6	9.5	0.57	31.7	586,118.60	782,810.51	
2,080.0	0.30	119.10	2,079.6	-1,610.1	-31.8	9.8	0.12	31.9	586,118.44	782,810.86	
2,168.0	0.30	140.70	2,167.6	-1,522.1	-32.1	10.2	0.13	32.2	586,118.15	782,811.21	
2,265.0	0.00	282.70	2,264.6	-1,425.1	-32.2	10.3	0.31	32.4	586,117.95	782,811.37	
2,343.0	0.00	36.30	2,342.6	-1,347.1	-32.2	10.3	0.00	32.4	586,117.95	782,811.37	
2,431.0	0.40	70.50	2,430.6	-1,259.1	-32.1	10.6	0.45	32.3	586,118.05	782,811.66	
2,519.0	0.40	58.90	2,518.6	-1,171.1	-31.9	11.2	0.09	32.1	586,118.31	782,812.21	
2,607.0	0.10	69.10	2,606.6	-1,083.1	-31.7	11.5	0.34	31.9	586,118.50	782,812.55	
2,694.0	0.60	96.50	2,693.6	-996.1	-31.7	12.0	0.59	31.9	586,118.47	782,813.07	
2,781.0	0.70	57.80	2,780.6	-909.1	-31.5	12.9	0.51	31.7	586,118.71	782,813.97	
2,869.0	0.80	151.50	2,868.6	-821.1	-31.7	13.7	1.25	32.0	586,118.45	782,814.72	
2,956.0	1.30	69.90	2,955.6	-734.1	-31.9	14.9	1.64	32.2	586,118.26	782,815.94	
3,044.0	1.40	67.30	3,043.6	-646.1	-31.2	16.8	0.13	31.5	586,119.02	782,817.87	
3,133.0	1.10	66.20	3,132.5	-557.2	-30.4	18.6	0.34	30.7	586,119.78	782,819.65	
3,219.0	0.80	27.70	3,218.5	-471.2	-29.6	19.6	0.80	29.9	586,120.64	782,820.69	
3,308.0	1.00	53.50	3,307.5	-382.2	-28.5	20.6	0.50	28.9	586,121.66	782,821.60	
3,311.9	1.00	53.02	3,311.4	-378.3	-28.5	20.6	0.21	28.8	586,121.70	782,821.65	
Base of Salt											
3,395.0	1.00	42.80	3,394.5	-295.2	-27.5	21.7	0.21	27.9	586,122.67	782,822.73	
3,486.0	0.90	48.30	3,485.5	-204.2	-26.5	22.8	0.15	26.9	586,123.72	782,823.80	
3,521.9	0.73	51.13	3,521.4	-168.3	-26.1	23.1	0.48	26.5	586,124.06	782,824.19	
Yates (Capitan Reef)											
3,573.0	0.50	58.40	3,572.5	-117.2	-25.8	23.6	0.48	26.2	586,124.38	782,824.63	
3,662.0	0.20	113.40	3,661.5	-28.2	-25.7	24.1	0.47	26.1	586,124.52	782,825.11	
3,750.0	0.10	78.20	3,749.5	59.8	-25.7	24.3	0.15	26.1	586,124.47	782,825.32	
3,815.9	0.17	112.75	3,815.4	125.7	-25.8	24.4	0.16	26.2	586,124.45	782,825.47	
7 Rivers (Capitan Reef)											
3,838.0	0.20	118.20	3,837.5	147.8	-25.8	24.5	0.16	26.2	586,124.42	782,825.53	

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Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
3,925.0	0.30	156.90	3,924.5	234.8	-26.1	24.7	0.22	26.5	586,124.14	782,825.76	
4,013.0	0.80	175.10	4,012.5	322.8	-26.9	24.9	0.59	27.3	586,123.31	782,825.90	
4,100.0	0.80	155.40	4,099.5	409.8	-28.0	25.2	0.31	28.5	586,122.15	782,826.20	
4,189.0	0.50	161.40	4,188.5	498.8	-29.0	25.5	0.35	29.4	586,121.22	782,826.59	
4,276.0	0.40	143.20	4,275.5	585.8	-29.6	25.8	0.20	30.0	586,120.62	782,826.89	
4,363.0	0.20	164.50	4,362.5	672.8	-30.0	26.1	0.26	30.4	586,120.23	782,827.11	
4,451.0	0.10	210.00	4,450.5	760.8	-30.2	26.1	0.17	30.6	586,120.01	782,827.11	
4,530.0	0.17	75.17	4,529.4	839.7	-30.2	26.1	0.32	30.6	586,119.99	782,827.20	
Queen (Capitan Reef)											
4,538.0	0.20	73.10	4,537.5	847.8	-30.2	26.2	0.32	30.6	586,119.99	782,827.22	
4,627.0	0.30	67.80	4,626.5	936.8	-30.1	26.5	0.12	30.5	586,120.13	782,827.59	
4,715.0	0.40	39.90	4,714.5	1,024.8	-29.7	26.9	0.22	30.2	586,120.45	782,828.00	
4,804.0	0.40	66.80	4,803.5	1,113.8	-29.4	27.4	0.21	29.8	586,120.81	782,828.48	
4,869.0	0.31	37.85	4,868.4	1,178.7	-29.2	27.7	0.31	29.6	586,121.04	782,828.80	
Penrose (Capitan Reef)											
4,891.0	0.30	25.20	4,890.5	1,200.8	-29.1	27.8	0.31	29.5	586,121.13	782,828.86	
4,978.0	0.80	75.40	4,977.5	1,287.8	-28.7	28.5	0.75	29.2	586,121.49	782,829.54	
5,039.0	0.52	66.75	5,038.4	1,348.7	-28.5	29.2	0.49	29.0	586,121.71	782,830.21	
Grayburg(Capitan Reef)											
5,067.0	0.40	58.80	5,066.4	1,376.7	-28.4	29.4	0.49	28.9	586,121.81	782,830.41	
5,154.0	0.70	75.90	5,153.4	1,463.7	-28.1	30.1	0.39	28.6	586,122.10	782,831.18	
5,201.0	0.70	76.86	5,200.4	1,510.7	-28.0	30.7	0.02	28.5	586,122.23	782,831.74	
San Andres											
5,242.0	0.70	77.70	5,241.4	1,551.7	-27.9	31.2	0.03	28.4	586,122.34	782,832.23	
5,335.0	0.30	88.40	5,334.4	1,644.7	-27.7	32.0	0.44	28.3	586,122.47	782,833.03	
5,346.0	0.40	192.10	5,345.4	1,655.7	-27.8	32.0	5.04	28.3	586,122.43	782,833.05	
5,400.0	0.19	102.72	5,399.4	1,709.7	-28.0	32.1	0.82	28.5	586,122.23	782,833.10	
9 5/8"											



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5,434.0	0.40	63.70	5,433.4	1,743.7	-27.9	32.2	0.82	28.5	586,122.27	782,833.26
5,521.0	0.30	75.20	5,520.4	1,830.7	-27.7	32.7	0.14	28.3	586,122.46	782,833.75
5,548.0	0.33	100.18	5,547.4	1,857.7	-27.7	32.9	0.52	28.3	586,122.47	782,833.90
Lamar Lime										
5,609.0	0.30	74.40	5,608.4	1,918.7	-27.6	33.2	0.24	28.2	586,122.58	782,834.20
5,645.0	0.30	71.24	5,644.4	1,954.7	-27.6	33.3	0.05	28.1	586,122.64	782,834.38
Delaware/Bell Canyon										
5,696.0	0.30	66.70	5,695.4	2,005.7	-27.5	33.6	0.05	28.0	586,122.74	782,834.63
5,784.0	0.10	74.80	5,783.4	2,093.7	-27.4	33.9	0.23	27.9	586,122.85	782,834.91
5,874.0	0.30	92.10	5,873.4	2,183.7	-27.3	34.2	0.23	27.9	586,122.86	782,835.22
5,961.0	0.20	109.10	5,960.4	2,270.7	-27.4	34.5	0.14	28.0	586,122.80	782,835.59
5,962.0	0.20	109.35	5,961.4	2,271.7	-27.4	34.6	0.18	28.0	586,122.80	782,835.60
Cherry Canyon										
6,048.0	0.10	158.80	6,047.4	2,357.7	-27.5	34.7	0.18	28.1	586,122.68	782,835.77
6,136.0	0.30	186.10	6,135.4	2,445.7	-27.8	34.7	0.25	28.4	586,122.38	782,835.77
6,223.0	0.30	218.20	6,222.4	2,532.7	-28.2	34.6	0.19	28.8	586,121.97	782,835.60
6,311.0	0.30	189.80	6,310.4	2,620.7	-28.6	34.4	0.17	29.2	586,121.57	782,835.42
6,399.0	0.60	187.20	6,398.4	2,708.7	-29.3	34.3	0.34	29.9	586,120.88	782,835.32
6,486.0	0.70	205.60	6,485.4	2,795.7	-30.2	34.0	0.26	30.8	586,119.95	782,835.04
6,575.0	0.90	203.90	6,574.4	2,884.7	-31.4	33.5	0.23	31.9	586,118.82	782,834.52
6,664.0	1.00	211.60	6,663.4	2,973.7	-32.7	32.8	0.18	33.2	586,117.52	782,833.83
6,751.0	0.80	209.80	6,750.4	3,060.7	-33.9	32.1	0.23	34.4	586,116.35	782,833.13
6,839.0	1.00	209.00	6,838.4	3,148.7	-35.1	31.4	0.23	35.6	586,115.14	782,832.45
6,928.0	0.80	190.00	6,927.4	3,237.7	-36.3	30.9	0.40	36.9	586,113.85	782,831.97
7,015.0	1.00	187.70	7,014.4	3,324.7	-37.7	30.7	0.23	38.2	586,112.50	782,831.76
7,103.0	0.90	195.70	7,102.3	3,412.6	-39.1	30.4	0.19	39.6	586,111.07	782,831.47
7,190.0	0.20	225.10	7,189.3	3,499.6	-39.9	30.1	0.84	40.4	586,110.31	782,831.18



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Site: Section 3
Well: North Lea Federal Com 3 #3H
Wellbore: North Lea Federal Com 3 #3H
Design: North Lea Federal Com 3 #3H

Local Co-ordinate Reference:
TVD Reference: KB @ 3689.7usft
MD Reference: KB @ 3689.7usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
7,278.0	0.10	331.90	7,277.3	3,587.6	-39.9	30.0	0.28	40.4	586,110.27	782,831.03
7,282.1	0.10	331.90	7,281.4	3,591.7	-39.9	30.0	0.11	40.4	586,110.28	782,831.03
Brushy Canyon										
7,366.0	0.00	7.00	7,365.3	3,675.6	-39.9	30.0	0.11	40.4	586,110.34	782,831.00
7,453.0	0.10	119.70	7,452.3	3,762.6	-39.9	30.0	0.11	40.4	586,110.30	782,831.06
7,541.0	0.10	306.20	7,540.3	3,850.6	-39.9	30.0	0.23	40.4	586,110.31	782,831.07
7,628.0	0.10	41.40	7,627.3	3,937.6	-39.8	30.0	0.17	40.3	586,110.41	782,831.06
7,717.0	0.40	16.70	7,716.3	4,026.6	-39.4	30.2	0.35	39.9	586,110.76	782,831.20
7,804.0	0.30	9.40	7,803.3	4,113.6	-38.9	30.3	0.13	39.4	586,111.28	782,831.32
7,892.0	0.30	9.30	7,891.3	4,201.6	-38.5	30.4	0.00	39.0	586,111.73	782,831.40
7,980.0	0.40	359.10	7,979.3	4,289.6	-37.9	30.4	0.13	38.4	586,112.27	782,831.43
8,067.0	0.30	331.70	8,066.3	4,376.6	-37.4	30.3	0.22	37.9	586,112.77	782,831.32
8,155.0	0.50	335.40	8,154.3	4,464.6	-36.9	30.0	0.23	37.4	586,113.32	782,831.05
8,207.1	0.38	334.75	8,206.4	4,516.7	-36.5	29.8	0.23	37.0	586,113.69	782,830.88
Bone Springs Lime										
8,243.0	0.30	334.00	8,242.3	4,552.6	-36.3	29.7	0.23	36.8	586,113.88	782,830.79
8,331.0	0.10	304.70	8,330.3	4,640.6	-36.1	29.6	0.25	36.6	586,114.13	782,830.82
8,419.0	0.30	269.50	8,418.3	4,728.6	-36.0	29.3	0.26	36.5	586,114.17	782,830.33
8,506.0	0.40	277.30	8,505.3	4,815.6	-36.0	28.8	0.13	36.5	586,114.21	782,829.80
8,594.0	0.10	257.90	8,593.3	4,903.6	-36.0	28.4	0.35	36.4	586,114.23	782,829.42
8,681.0	0.30	284.50	8,680.3	4,990.6	-35.9	28.1	0.25	36.4	586,114.27	782,829.13
8,702.1	0.32	269.21	8,701.4	5,011.7	-35.9	28.0	0.41	36.4	586,114.29	782,829.01
Avalon Shale										
8,770.0	0.50	238.60	8,769.3	5,079.6	-36.1	27.5	0.41	36.5	586,114.13	782,828.57
8,858.0	0.90	176.30	8,857.3	5,167.6	-37.0	27.2	0.91	37.4	586,113.24	782,828.29
8,945.0	0.80	179.90	8,944.3	5,254.6	-38.2	27.3	0.13	38.7	586,111.95	782,828.33
9,032.0	0.40	160.80	9,031.3	5,341.6	-39.1	27.4	0.51	39.6	586,111.06	782,828.43

MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect.T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000.1 Single User.Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
9,120.0	0.50	163.50	9,119.3	5,429.6	-39.8	27.6	0.12	40.3	586,110.40	782,828.64	
9,207.0	0.60	133.00	9,206.3	5,516.6	-40.5	28.0	0.35	40.9	586,109.72	782,829.08	
9,295.0	0.90	121.90	9,294.3	5,604.6	-41.2	29.0	0.38	41.6	586,109.04	782,830.01	
9,382.0	1.20	95.70	9,381.3	5,691.6	-41.6	30.4	0.64	42.1	586,108.59	782,831.49	
9,394.2	1.07	90.79	9,393.4	5,703.7	-41.6	30.7	1.34	42.1	586,108.58	782,831.73	
1st Bone Spring Sand											
9,470.0	0.70	24.40	9,469.3	5,779.6	-41.2	31.6	1.34	41.7	586,108.99	782,832.63	
9,558.0	0.70	7.30	9,557.3	5,867.6	-40.2	31.9	0.24	40.7	586,110.01	782,832.92	
9,646.0	0.30	33.10	9,645.2	5,955.5	-39.5	32.1	0.51	40.0	586,110.74	782,833.12	
9,733.0	0.90	116.90	9,732.2	6,042.5	-39.6	32.8	1.05	40.1	586,110.62	782,833.85	
9,822.0	0.80	95.20	9,821.2	6,131.5	-39.9	34.0	0.38	40.5	586,110.25	782,835.09	
9,910.0	0.90	211.10	9,909.2	6,219.5	-40.6	34.3	1.64	41.2	586,109.60	782,835.35	
9,911.2	0.91	211.67	9,910.4	6,220.7	-40.6	34.3	0.91	41.2	586,109.59	782,835.34	
2nd Bone Spring Sand											
9,998.0	1.50	237.40	9,997.2	6,307.5	-41.8	33.0	0.91	42.4	586,108.39	782,834.02	
10,085.0	0.80	208.60	10,084.2	6,394.5	-43.0	31.7	1.02	43.5	586,107.24	782,832.77	
10,173.0	1.60	192.40	10,172.2	6,482.5	-44.7	31.2	0.98	45.2	586,105.50	782,832.21	
10,231.0	2.20	192.90	10,230.1	6,540.4	-46.6	30.7	1.03	47.1	586,103.63	782,831.79	
10,270.0	2.30	185.30	10,269.1	6,579.4	-48.1	30.5	0.81	48.6	586,102.12	782,831.55	
10,315.0	5.30	193.20	10,314.0	6,624.3	-51.0	29.9	6.75	51.5	586,099.20	782,830.99	
10,359.0	11.00	193.00	10,357.5	6,667.8	-57.1	28.5	12.95	57.5	586,093.12	782,829.58	
10,403.0	16.10	190.90	10,400.3	6,710.6	-67.2	26.4	11.64	67.6	586,083.03	782,827.48	
10,446.0	19.20	190.40	10,441.3	6,751.6	-80.0	24.0	7.22	80.4	586,070.22	782,825.08	
10,490.0	23.00	190.70	10,482.3	6,792.6	-95.5	21.1	8.64	95.9	586,054.65	782,822.18	
10,534.0	25.50	191.10	10,522.4	6,832.7	-113.3	17.7	5.69	113.6	586,036.91	782,818.76	
10,560.7	26.34	192.71	10,546.4	6,856.7	-124.7	15.3	4.11	124.9	586,025.51	782,816.35	
3rd Bone Spring Sand											



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000:1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
10,572.0	26.71	193.36	10,556.6	6,866.9	-129.6	14.2	4.11	129.8	586,020.58	782,815.21	
Cross North HArD Boundary @ 10572ftMD											
10,578.0	26.90	193.70	10,561.9	6,872.2	-132.3	13.5	4.11	132.5	586,017.95	782,814.57	
10,622.0	30.50	193.70	10,600.5	6,910.8	-152.8	8.5	8.18	152.9	585,997.42	782,809.57	
10,666.0	36.50	192.80	10,637.2	6,947.5	-176.4	3.0	13.68	176.4	585,973.79	782,804.02	
10,710.0	42.00	191.20	10,671.2	6,981.5	-203.6	-2.8	12.71	203.6	585,946.57	782,798.26	
10,754.0	48.00	188.50	10,702.3	7,012.6	-234.3	-8.1	14.31	234.1	585,915.93	782,792.98	
10,799.0	52.50	184.80	10,731.1	7,041.4	-268.6	-12.0	11.83	268.4	585,881.58	782,789.01	
10,842.0	58.10	181.30	10,755.6	7,065.9	-303.9	-13.9	14.64	303.6	585,846.30	782,787.17	
10,886.0	63.30	178.90	10,777.1	7,087.4	-342.3	-13.9	12.74	342.0	585,807.95	782,787.12	
10,908.0	66.60	177.60	10,786.4	7,096.7	-362.2	-13.3	15.93	361.9	585,788.03	782,787.73	
10,952.0	71.60	177.10	10,802.1	7,112.4	-403.2	-11.4	11.41	403.0	585,746.98	782,789.64	
10,996.0	76.50	177.10	10,814.2	7,124.5	-445.5	-9.3	11.14	445.2	585,704.74	782,791.78	
11,040.0	78.90	177.20	10,823.6	7,133.9	-488.4	-7.1	5.46	488.2	585,661.81	782,793.91	
11,083.0	83.40	177.70	10,830.2	7,140.5	-530.8	-5.2	10.53	530.7	585,619.38	782,795.80	
11,127.0	83.90	177.90	10,835.1	7,145.4	-574.5	-3.6	1.22	574.4	585,575.68	782,797.48	
11,172.0	84.20	177.40	10,839.7	7,150.0	-619.2	-1.7	1.29	619.1	585,530.96	782,799.31	
11,215.0	84.20	176.90	10,844.1	7,154.4	-662.0	0.4	1.16	661.9	585,488.24	782,801.44	
11,259.0	84.40	176.90	10,848.4	7,158.7	-705.7	2.8	0.45	705.6	585,444.52	782,803.81	
11,303.0	84.80	176.90	10,852.6	7,162.9	-749.4	5.1	0.91	749.4	585,400.78	782,806.18	
11,347.0	84.60	176.80	10,856.6	7,166.9	-793.2	7.5	0.51	793.2	585,357.04	782,808.59	
11,391.0	85.10	177.00	10,860.6	7,170.9	-836.9	9.9	1.22	837.0	585,313.28	782,810.96	
11,435.0	86.00	178.40	10,864.0	7,174.3	-880.8	11.7	3.77	880.8	585,269.45	782,812.72	
11,480.0	86.40	178.20	10,867.0	7,177.3	-925.7	13.0	0.99	925.7	585,224.57	782,814.05	
11,524.0	87.40	178.60	10,869.4	7,179.7	-969.6	14.2	2.45	969.7	585,180.65	782,815.27	
11,568.0	87.60	178.30	10,871.3	7,181.6	-1,013.5	15.4	0.82	1,013.6	585,136.71	782,816.46	
11,611.0	86.10	177.90	10,873.7	7,184.0	-1,056.4	16.8	3.61	1,056.6	585,093.80	782,817.89	



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000:1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
11,655.0	86.50	178.00	10,876.5	7,186.8	-1,100.3	18.4	0.94	1,100.5	585,049.92	782,819.46
11,744.0	85.70	181.70	10,882.5	7,192.8	-1,189.1	18.6	4.24	1,189.2	584,961.15	782,819.69
11,832.0	85.80	182.50	10,889.1	7,199.4	-1,276.8	15.4	0.91	1,276.9	584,873.45	782,816.48
11,916.0	87.60	182.40	10,893.9	7,204.2	-1,360.6	11.8	2.15	1,360.6	584,789.67	782,812.89
12,006.0	86.40	181.30	10,898.6	7,208.9	-1,450.4	8.9	1.81	1,450.3	584,699.85	782,809.99
12,048.0	86.70	181.60	10,901.1	7,211.4	-1,492.3	7.9	1.01	1,492.2	584,657.94	782,808.93
12,094.0	87.30	181.90	10,903.6	7,213.9	-1,538.2	6.5	1.46	1,538.1	584,612.02	782,807.53
12,138.0	88.30	181.50	10,905.2	7,215.5	-1,582.2	5.2	2.45	1,582.0	584,568.08	782,806.22
12,183.0	90.00	181.90	10,905.9	7,216.2	-1,627.1	3.8	3.88	1,627.0	584,523.11	782,804.89
12,226.0	89.20	180.80	10,906.2	7,216.5	-1,670.1	2.8	3.16	1,669.9	584,480.12	782,803.87
12,270.0	89.70	180.20	10,906.6	7,216.9	-1,714.1	2.4	1.78	1,713.9	584,436.13	782,803.49
12,314.0	90.20	180.40	10,906.7	7,217.0	-1,758.1	2.2	1.22	1,757.9	584,392.13	782,803.26
12,357.0	90.40	179.70	10,906.4	7,216.7	-1,801.1	2.2	1.69	1,800.9	584,349.13	782,803.22
12,401.0	88.90	180.20	10,906.7	7,217.0	-1,845.1	2.2	3.59	1,844.9	584,305.13	782,803.26
12,445.0	88.80	179.40	10,907.6	7,217.9	-1,889.1	2.4	1.83	1,888.9	584,261.14	782,803.41
12,488.0	89.00	179.40	10,908.4	7,218.7	-1,932.1	2.8	0.47	1,931.9	584,218.15	782,803.86
12,533.0	89.10	178.90	10,909.2	7,219.5	-1,977.1	3.5	1.13	1,976.9	584,173.17	782,804.53
12,577.0	89.60	179.00	10,909.7	7,220.0	-2,021.1	4.3	1.16	2,020.9	584,129.18	782,805.34
12,621.0	89.90	179.00	10,909.9	7,220.2	-2,065.1	5.1	0.68	2,064.9	584,085.19	782,806.11
12,664.0	90.20	179.10	10,909.8	7,220.1	-2,108.1	5.8	0.74	2,107.9	584,042.19	782,806.82
12,708.0	90.80	179.30	10,909.4	7,219.7	-2,152.0	6.4	1.44	2,151.9	583,998.20	782,807.43
12,752.0	89.40	179.20	10,909.4	7,219.7	-2,196.0	7.0	3.19	2,195.9	583,954.21	782,808.01
12,796.0	89.70	178.60	10,909.7	7,220.0	-2,240.0	7.8	1.52	2,239.9	583,910.22	782,808.85
12,840.0	89.90	178.60	10,909.9	7,220.2	-2,284.0	8.9	0.45	2,283.8	583,866.23	782,809.93
12,884.0	90.00	178.80	10,909.9	7,220.2	-2,328.0	9.9	0.51	2,327.8	583,822.24	782,810.93
12,928.0	89.20	178.70	10,910.2	7,220.5	-2,372.0	10.8	1.83	2,371.8	583,778.26	782,811.89
12,972.0	89.00	178.50	10,910.9	7,221.2	-2,416.0	11.9	0.64	2,415.8	583,734.28	782,812.96



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000.1 Single User.Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
13,015.0	88.70	177.80	10,911.8	7,222.1	-2,458.9	13.3	1.77	2,458.8	583,691.31	782,814.35	
13,059.0	88.90	178.10	10,912.7	7,223.0	-2,502.9	14.9	0.82	2,502.8	583,647.35	782,815.92	
13,104.0	89.10	178.90	10,913.5	7,223.8	-2,547.9	16.1	1.83	2,547.8	583,602.37	782,817.10	
13,147.0	88.90	179.00	10,914.2	7,224.5	-2,590.9	16.8	0.52	2,590.8	583,559.39	782,817.89	
13,191.0	89.60	178.60	10,914.8	7,225.1	-2,634.9	17.8	1.83	2,634.8	583,515.40	782,818.81	
13,235.0	89.40	179.40	10,915.2	7,225.5	-2,678.8	18.5	1.87	2,678.8	583,471.41	782,819.58	
13,279.0	89.70	179.50	10,915.5	7,225.8	-2,722.8	19.0	0.72	2,722.8	583,427.42	782,820.00	
13,322.0	90.50	179.80	10,915.4	7,225.7	-2,765.8	19.2	1.99	2,765.8	583,384.42	782,820.26	
13,366.0	89.50	180.30	10,915.4	7,225.7	-2,809.8	19.2	2.54	2,809.8	583,340.42	782,820.22	
13,410.0	89.80	180.10	10,915.7	7,226.0	-2,853.8	19.0	0.82	2,853.8	583,296.42	782,820.07	
13,454.0	88.30	180.20	10,916.4	7,226.7	-2,897.8	18.9	3.42	2,897.7	583,252.43	782,819.95	
13,497.0	88.70	180.40	10,917.6	7,227.9	-2,940.8	18.7	1.04	2,940.7	583,209.45	782,819.73	
13,541.0	88.90	180.20	10,918.5	7,228.8	-2,984.8	18.5	0.64	2,984.7	583,165.46	782,819.50	
13,586.0	89.50	180.60	10,919.1	7,229.4	-3,029.8	18.1	1.60	3,029.7	583,120.47	782,819.19	
13,630.0	90.10	180.60	10,919.3	7,229.6	-3,073.8	17.7	1.36	3,073.7	583,076.47	782,818.72	
13,674.0	89.00	180.60	10,919.6	7,229.9	-3,117.8	17.2	2.50	3,117.6	583,032.48	782,818.26	
13,718.0	89.40	180.60	10,920.2	7,230.5	-3,161.8	16.8	0.91	3,161.6	582,988.48	782,817.80	
13,761.0	89.80	180.50	10,920.5	7,230.8	-3,204.8	16.3	0.96	3,204.6	582,945.49	782,817.39	
13,805.0	90.40	180.70	10,920.5	7,230.8	-3,248.8	15.9	1.44	3,248.6	582,901.49	782,816.93	
13,848.0	89.20	181.60	10,920.6	7,230.9	-3,291.8	15.0	3.49	3,291.6	582,858.50	782,816.07	
13,893.0	89.40	180.80	10,921.2	7,231.5	-3,336.8	14.1	1.83	3,336.5	582,813.52	782,815.12	
13,936.0	89.60	181.40	10,921.5	7,231.8	-3,379.8	13.3	1.47	3,379.5	582,770.53	782,814.30	
13,980.0	90.00	181.10	10,921.7	7,232.0	-3,423.7	12.3	1.14	3,423.5	582,726.54	782,813.34	
14,023.0	89.80	181.00	10,921.8	7,232.1	-3,466.7	11.5	0.52	3,466.4	582,683.55	782,812.55	
14,067.0	88.00	180.50	10,922.6	7,232.9	-3,510.7	10.9	4.25	3,510.4	582,639.56	782,811.98	
14,111.0	86.10	180.30	10,924.9	7,235.2	-3,554.7	10.6	4.34	3,554.3	582,595.63	782,811.67	
14,155.0	86.20	180.40	10,927.8	7,238.1	-3,598.6	10.4	0.32	3,598.2	582,551.73	782,811.40	



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000:1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
14,198.0	86.30	180.60	10,930.6	7,240.9	-3,641.5	10.0	0.52	3,641.1	582,508.82	782,811.03
14,243.0	86.80	180.80	10,933.3	7,243.6	-3,686.4	9.4	1.20	3,686.0	582,463.91	782,810.48
14,287.0	87.30	180.40	10,935.6	7,245.9	-3,730.3	9.0	1.45	3,729.9	582,419.97	782,810.02
14,330.0	87.20	180.20	10,937.7	7,248.0	-3,773.3	8.7	0.52	3,772.9	582,377.02	782,809.79
14,374.0	87.60	180.20	10,939.7	7,250.0	-3,817.2	8.6	0.91	3,816.8	582,333.07	782,809.64
14,418.0	88.10	179.30	10,941.3	7,251.6	-3,861.2	8.8	2.34	3,860.8	582,289.10	782,809.83
14,462.0	89.00	179.20	10,942.4	7,252.7	-3,905.2	9.4	2.06	3,904.8	582,245.12	782,810.41
14,506.0	89.50	179.70	10,943.0	7,253.3	-3,949.2	9.8	1.61	3,948.8	582,201.13	782,810.83
14,549.0	89.90	179.30	10,943.2	7,253.5	-3,992.2	10.2	1.32	3,991.8	582,158.13	782,811.20
14,594.0	90.20	178.80	10,943.2	7,253.5	-4,037.2	10.9	1.30	4,036.8	582,113.14	782,811.95
14,638.0	90.50	178.50	10,942.9	7,253.2	-4,081.1	11.9	0.96	4,080.8	582,069.15	782,812.99
14,682.0	91.10	178.60	10,942.3	7,252.6	-4,125.1	13.1	1.38	4,124.8	582,025.17	782,814.10
14,726.0	90.60	178.30	10,941.7	7,252.0	-4,169.1	14.2	1.33	4,168.8	581,981.19	782,815.29
14,770.0	90.80	178.30	10,941.1	7,251.4	-4,213.1	15.5	0.45	4,212.8	581,937.22	782,816.59
14,814.0	90.40	177.80	10,940.7	7,251.0	-4,257.1	17.0	1.46	4,256.7	581,893.25	782,818.09
14,858.0	89.50	177.10	10,940.7	7,251.0	-4,301.0	19.0	2.59	4,300.7	581,849.29	782,820.05
14,901.0	89.10	176.20	10,941.2	7,251.5	-4,343.9	21.5	2.29	4,343.7	581,806.37	782,822.56
14,945.0	89.20	176.90	10,941.9	7,252.2	-4,387.8	24.2	1.61	4,387.6	581,762.46	782,825.21
14,989.0	89.40	177.20	10,942.4	7,252.7	-4,431.8	26.4	0.82	4,431.6	581,718.52	782,827.47
15,033.0	89.80	177.50	10,942.7	7,253.0	-4,475.7	28.5	1.14	4,475.6	581,674.57	782,829.51
15,076.0	89.90	177.50	10,942.8	7,253.1	-4,518.7	30.3	0.23	4,518.6	581,631.61	782,831.38
15,120.0	90.20	177.40	10,942.8	7,253.1	-4,562.7	32.3	0.72	4,562.6	581,587.66	782,833.34
15,208.0	90.50	176.90	10,942.3	7,252.6	-4,650.5	36.7	0.66	4,650.5	581,499.77	782,837.72
15,251.0	90.90	176.60	10,941.7	7,252.0	-4,693.5	39.1	1.16	4,693.5	581,456.84	782,840.15
15,295.0	90.90	176.10	10,941.0	7,251.3	-4,737.4	41.9	1.14	4,737.4	581,412.94	782,842.95
15,335.0	90.63	175.57	10,940.5	7,250.8	-4,777.3	44.8	1.49	4,777.3	581,373.05	782,845.86

Cross South Hard Boundary @15335ftMD



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
15,340.0	90.60	175.50		10,940.5	7,250.8	-4,782.2	45.2	1.49	4,782.3	581,368.06	782,846.25
15,405.0	90.20	175.20		10,940.0	7,250.3	-4,847.0	50.5	0.77	4,847.2	581,303.28	782,851.52
15,455.0	90.20	175.20		10,939.8	7,250.1	-4,896.9	54.7	0.00	4,897.1	581,253.46	782,855.70

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,707.0	1,706.6	13 3/8"	13-3/8	16	
5,400.0	5,399.4	9 5/8"	9-5/8	12-1/4	



MOJO Survey

Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea Federal Com 3 #3H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	KB @ 3689.7usft
Site:	Section 3	MD Reference:	KB @ 3689.7usft
Well:	North Lea Federal Com 3 #3H	North Reference:	Grid
Wellbore:	North Lea Federal Com 3 #3H	Survey Calculation Method:	Minimum Curvature
Design:	North Lea Federal Com 3 #3H	Database:	EDM 5000:1 Single User Db

Formations			
Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (°)
8,207.1	8,206.4	Bone Springs Lime	0.00
8,702.1	8,701.4	Avalon Shale	0.00
3,815.9	3,815.4	7 Rivers (Capitan Reef)	0.00
5,962.0	5,961.4	Cherry Canyon	0.00
5,201.0	5,200.4	San Andres	0.00
10,560.7	10,546.4	3rd Bone Spring Sand	0.00
7,282.1	7,281.4	Brushy Canyon	0.00
1,571.8	1,571.4	Rustler	0.00
9,394.2	9,393.4	1st Bone Spring Sand	0.00
4,530.0	4,529.4	Queen (Capitan Reef)	0.00
5,548.0	5,547.4	Lamar Lime	0.00
4,869.0	4,868.4	Penrose (Capitan Reef)	0.00
5,039.0	5,038.4	Grayburg(Capitan Reef)	0.00
3,311.9	3,311.4	Base of Salt	0.00
1,701.8	1,701.4	Top of Salt	0.00
9,911.2	9,910.4	2nd Bone Spring Sand	0.00
3,521.9	3,521.4	Yates (Capitan Reef)	0.00
5,645.0	5,644.4	Delaware/Bell Canyon	0.00

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,572.0	10,556.6	-129.6	14.2	Cross North Hard Boundary @ 10572ftMD
15,335.0	10,940.5	-4,777.3	44.8	Cross South Hard Boundary @15335ftMD

Checked By: _____	Approved By: _____	Date: _____
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