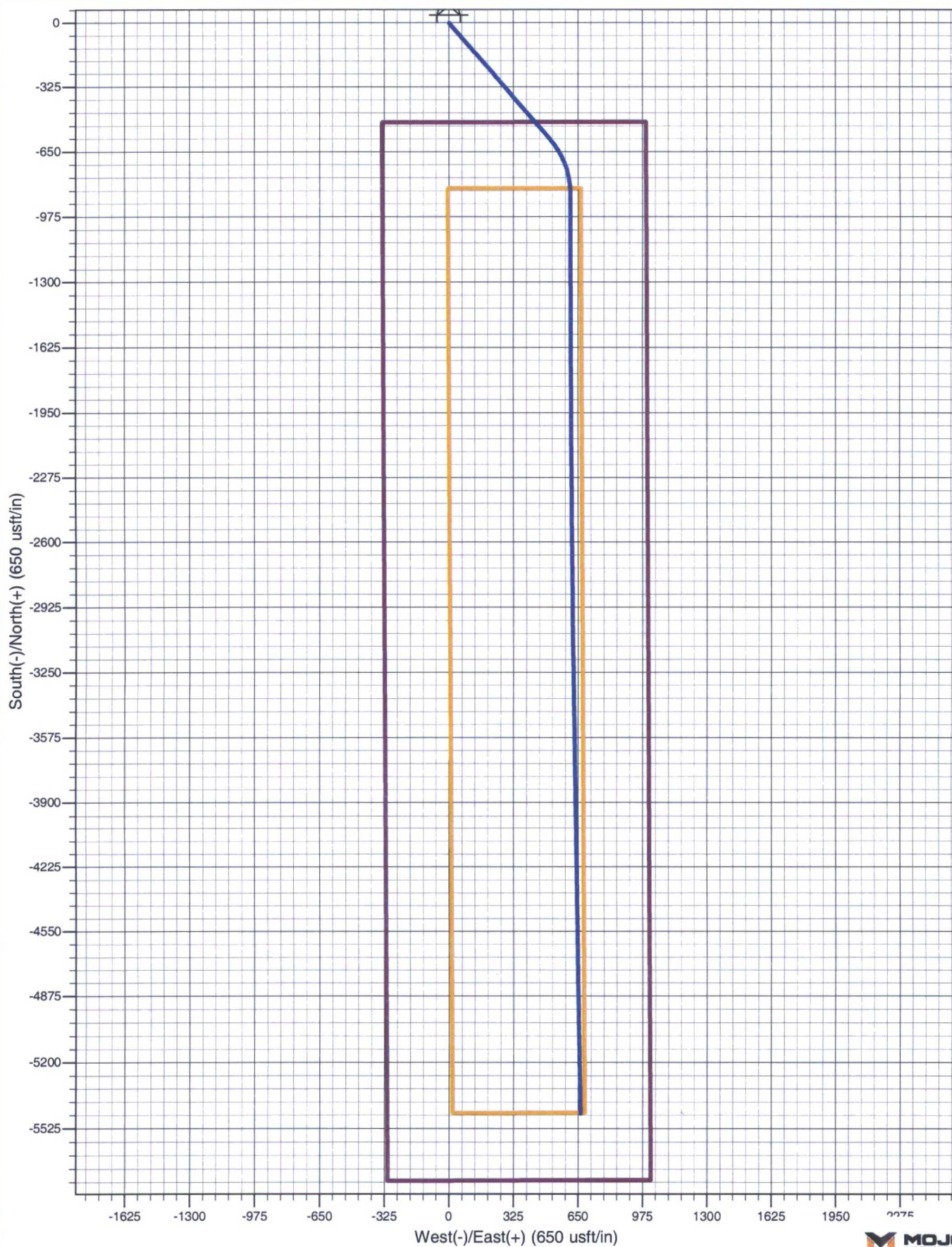


Project: North Lea Prospect T20S-R34E
 Site: Section 9
 Well: North Lea 9 Federal Com #1H
 Wellbore: North Lea 9 Federal Com #1H
 Design: North Lea 9 Fed Com 1H



Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 7.00°

Magnetic Field
 Strength: 48685.6nT
 Dip Angle: 60.49°
 Date: 31/12/2012
 Model: IGRF2010

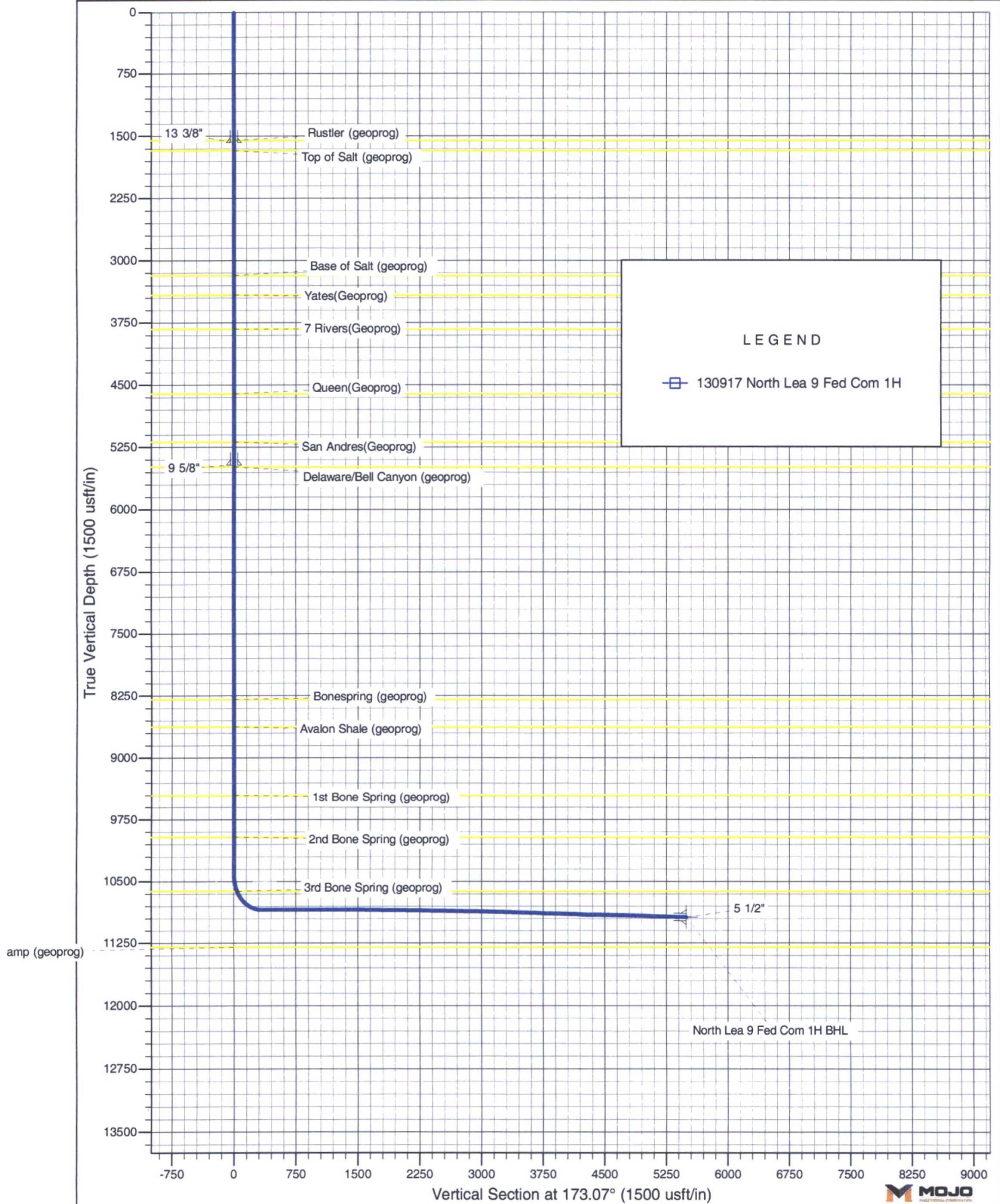


Project: North Lea Prospect T20S-R34E
 Site: Section 9
 Well: North Lea 9 Federal Com #1H
 Wellbore: North Lea 9 Federal Com #1H
 Design: North Lea 9 Fed Com 1H



Azimuths to Grid North
 True North: -0.42°
 Magnetic North: 7.00°

Magnetic Field
 Strength: 48685.6nT
 Dip Angle: 60.49°
 Date: 31/12/2012
 Model: IGRF2010





Read and Stevens Inc.

North Lea Prospect T20S-R34E

Section 9

North Lea 9 Federal Com #1H

Plan: 130917 North Lea 9 Fed Com 1H

MOJO Standard Survey

05 June, 2014

HOBBS OCD

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MOJO Standard Survey



Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 9 Federal Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Site:	Section 9	MD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Well:	North Lea 9 Federal Com #1H	North Reference:	Grid
Wellbore:	North Lea 9 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	130917 North Lea 9 Fed Com 1H	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 9		
Site Position:		Northing:	578,376.34 usft
From:	Lat/Long	Easting:	777,939.62 usft
Position Uncertainty:	1.0 usft	Slot Radius:	16 "
		Latitude:	32° 35' 15.582 N
		Longitude:	103° 33' 54.508 W
		Grid Convergence:	0.41 °

Well		North Lea 9 Federal Com #1H				
Well Position	+N-S	0.0 usft	Northing:	581,515.09 usft	Latitude:	32° 35' 46.523 N
	+E-W	0.0 usft	Easting:	779,553.81 usft	Longitude:	103° 33' 35.375 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,632.5 usft

Wellbore	North Lea 9 Federal Com #1H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	31/12/2012	7.42	60.49	48,686

Design		130917 North Lea 9 Fed Com 1H		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.07

Survey Tool Program		Date 18/09/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	16,333.2	130917 North Lea 9 Fed Com 1H (North L	MWD	MWD - Standard



MOJO Standard Survey



Company: Read and Stevens Inc.
Project: North Lea Prospect T20S-R34E
Site: Section 9
Well: North Lea 9 Federal Com #1H
Wellbore: North Lea 9 Federal Com #1H
Design: 130917 North Lea 9 Fed Com 1H

Local Co-ordinate Reference: Well North Lea 9 Federal Com #1H
TVD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
MD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,654.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
100.0	0.00	0.00	100.0	-3,554.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
200.0	0.00	0.00	200.0	-3,454.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
300.0	0.00	0.00	300.0	-3,354.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
400.0	0.00	0.00	400.0	-3,254.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
500.0	0.00	0.00	500.0	-3,154.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
600.0	0.00	0.00	600.0	-3,054.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
700.0	0.00	0.00	700.0	-2,954.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
800.0	0.00	0.00	800.0	-2,854.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
900.0	0.00	0.00	900.0	-2,754.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,000.0	0.00	0.00	1,000.0	-2,654.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,100.0	0.00	0.00	1,100.0	-2,554.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,200.0	0.00	0.00	1,200.0	-2,454.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,300.0	0.00	0.00	1,300.0	-2,354.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,400.0	0.00	0.00	1,400.0	-2,254.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,500.0	0.00	0.00	1,500.0	-2,154.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,600.0	0.00	0.00	1,600.0	-2,054.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,700.0	0.00	0.00	1,700.0	-1,954.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,800.0	0.00	0.00	1,800.0	-1,854.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
1,900.0	0.00	0.00	1,900.0	-1,754.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,000.0	0.00	0.00	2,000.0	-1,654.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,100.0	0.00	0.00	2,100.0	-1,554.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,200.0	0.00	0.00	2,200.0	-1,454.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,300.0	0.00	0.00	2,300.0	-1,354.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,400.0	0.00	0.00	2,400.0	-1,254.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,500.0	0.00	0.00	2,500.0	-1,154.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
2,600.0	0.00	0.00	2,600.0	-1,054.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81



MOJO Standard Survey



Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 9 Federal Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Site:	Section 9	MD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Well:	North Lea 9 Federal Com #1H	North Reference:	Grid
Wellbore:	North Lea 9 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	130917 North Lea 9 Fed Com 1H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.0	0.00	0.00	2,700.0	-954.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
2,800.0	0.00	0.00	2,800.0	-854.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
2,900.0	0.00	0.00	2,900.0	-754.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,000.0	0.00	0.00	3,000.0	-654.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,100.0	0.00	0.00	3,100.0	-554.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,200.0	0.00	0.00	3,200.0	-454.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,300.0	0.00	0.00	3,300.0	-354.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,400.0	0.00	0.00	3,400.0	-254.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,500.0	0.00	0.00	3,500.0	-154.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,600.0	0.00	0.00	3,600.0	-54.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,700.0	0.00	0.00	3,700.0	45.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,800.0	0.00	0.00	3,800.0	145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
3,900.0	0.00	0.00	3,900.0	245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,000.0	0.00	0.00	4,000.0	345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,100.0	0.00	0.00	4,100.0	445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,200.0	0.00	0.00	4,200.0	545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,300.0	0.00	0.00	4,300.0	645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,400.0	0.00	0.00	4,400.0	745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,500.0	0.00	0.00	4,500.0	845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,600.0	0.00	0.00	4,600.0	945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,700.0	0.00	0.00	4,700.0	1,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,800.0	0.00	0.00	4,800.0	1,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
4,900.0	0.00	0.00	4,900.0	1,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
5,000.0	0.00	0.00	5,000.0	1,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
5,100.0	0.00	0.00	5,100.0	1,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
5,200.0	0.00	0.00	5,200.0	1,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	
5,300.0	0.00	0.00	5,300.0	1,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81	



MOJO Standard Survey



Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 9 Federal Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Site:	Section 9	MD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Well:	North Lea 9 Federal Com #1H	North Reference:	Grid
Wellbore:	North Lea 9 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	130917 North Lea 9 Fed Com 1H	Database:	EDM 5000.1 Single User Db

Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)		
5,400.0	0.00	0.00	5,400.0	1,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
5,500.0	0.00	0.00	5,500.0	1,845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
5,600.0	0.00	0.00	5,600.0	1,945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
5,700.0	0.00	0.00	5,700.0	2,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
5,800.0	0.00	0.00	5,800.0	2,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
5,900.0	0.00	0.00	5,900.0	2,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,000.0	0.00	0.00	6,000.0	2,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,100.0	0.00	0.00	6,100.0	2,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,200.0	0.00	0.00	6,200.0	2,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,300.0	0.00	0.00	6,300.0	2,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,400.0	0.00	0.00	6,400.0	2,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,500.0	0.00	0.00	6,500.0	2,845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,600.0	0.00	0.00	6,600.0	2,945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,700.0	0.00	0.00	6,700.0	3,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,800.0	0.00	0.00	6,800.0	3,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
6,900.0	0.00	0.00	6,900.0	3,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,000.0	0.00	0.00	7,000.0	3,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,100.0	0.00	0.00	7,100.0	3,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,200.0	0.00	0.00	7,200.0	3,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,300.0	0.00	0.00	7,300.0	3,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,400.0	0.00	0.00	7,400.0	3,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,500.0	0.00	0.00	7,500.0	3,845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,600.0	0.00	0.00	7,600.0	3,945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,700.0	0.00	0.00	7,700.0	4,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,800.0	0.00	0.00	7,800.0	4,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
7,900.0	0.00	0.00	7,900.0	4,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		
8,000.0	0.00	0.00	8,000.0	4,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81		



MOJO Standard Survey



Company: Read and Stevens Inc.
Project: North Lea Prospect T20S-R34E
Site: Section 9
Well: North Lea 9 Federal Com #1H
Wellbore: North Lea 9 Federal Com #1H
Design: 130917 North Lea 9 Fed Com 1H

Local Co-ordinate Reference:
TVD Reference: Well North Lea 9 Federal Com #1H
MD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
North Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
Survey Calculation Method: Grid
Database: Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,100.0	0.00	0.00	8,100.0	4,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,200.0	0.00	0.00	8,200.0	4,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,300.0	0.00	0.00	8,300.0	4,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,400.0	0.00	0.00	8,400.0	4,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,500.0	0.00	0.00	8,500.0	4,845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,600.0	0.00	0.00	8,600.0	4,945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,700.0	0.00	0.00	8,700.0	5,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,800.0	0.00	0.00	8,800.0	5,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
8,900.0	0.00	0.00	8,900.0	5,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,000.0	0.00	0.00	9,000.0	5,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,100.0	0.00	0.00	9,100.0	5,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,200.0	0.00	0.00	9,200.0	5,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,300.0	0.00	0.00	9,300.0	5,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,400.0	0.00	0.00	9,400.0	5,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,500.0	0.00	0.00	9,500.0	5,845.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,600.0	0.00	0.00	9,600.0	5,945.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,700.0	0.00	0.00	9,700.0	6,045.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,800.0	0.00	0.00	9,800.0	6,145.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
9,900.0	0.00	0.00	9,900.0	6,245.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,000.0	0.00	0.00	10,000.0	6,345.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,100.0	0.00	0.00	10,100.0	6,445.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,200.0	0.00	0.00	10,200.0	6,545.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,300.0	0.00	0.00	10,300.0	6,645.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,400.0	0.00	0.00	10,400.0	6,745.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,433.0	0.00	0.00	10,433.0	6,778.5	0.0	0.0	0.0	0.00	581,515.09	779,553.81
10,450.0	2.38	139.00	10,450.0	6,795.5	-0.3	0.2	0.3	14.00	581,514.82	779,554.04
10,475.0	5.88	139.00	10,474.9	6,820.4	-1.6	1.4	1.8	14.00	581,513.46	779,555.22



MOJO Standard Survey



Company: Read and Stevens Inc.
Project: North Lea Prospect T20S-R34E
Site: Section 9
Well: North Lea 9 Federal Com #1H
Wellbore: North Lea 9 Federal Com #1H
Design: 130917 North Lea 9 Fed Com 1H

Local Co-ordinate Reference:
TVD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
MD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
10,500.0	9.38	139.00	10,499.7	6,845.2	-4.1	3.6	4.5	14.00	581,510.96	779,557.40
10,525.0	12.88	139.00	10,524.2	6,869.7	-7.8	6.8	8.5	14.00	581,507.32	779,560.57
10,550.0	16.38	139.00	10,548.4	6,893.9	-12.5	10.9	13.8	14.00	581,502.55	779,564.71
10,575.0	19.88	139.00	10,572.2	6,917.7	-18.4	16.0	20.2	14.00	581,496.68	779,569.81
10,600.0	23.38	139.00	10,595.4	6,940.9	-25.4	22.0	27.8	14.00	581,489.73	779,575.86
10,625.0	26.88	139.00	10,618.0	6,963.5	-33.4	29.0	36.6	14.00	581,481.72	779,582.82
10,650.0	30.38	139.00	10,640.0	6,985.5	-42.4	36.9	46.5	14.00	581,472.68	779,590.68
10,675.0	33.88	139.00	10,661.1	7,006.6	-52.4	45.6	57.6	14.00	581,462.64	779,599.40
10,700.0	37.38	139.00	10,681.5	7,027.0	-63.4	55.1	69.6	14.00	581,451.65	779,608.95
10,725.0	40.88	139.00	10,700.8	7,046.3	-75.3	65.5	82.7	14.00	581,439.75	779,619.30
10,750.0	44.38	139.00	10,719.2	7,064.7	-88.1	76.6	96.7	14.00	581,426.97	779,630.41
10,775.0	47.88	139.00	10,736.6	7,082.1	-101.7	88.4	111.6	14.00	581,413.37	779,642.23
10,800.0	51.38	139.00	10,752.8	7,098.3	-116.1	100.9	127.4	14.00	581,399.00	779,654.72
10,825.0	54.88	139.00	10,767.8	7,113.3	-131.2	114.0	144.0	14.00	581,383.91	779,667.84
10,850.0	58.38	139.00	10,781.5	7,127.0	-146.9	127.7	161.3	14.00	581,368.16	779,681.54
10,875.0	61.88	139.00	10,793.9	7,139.4	-163.3	141.9	179.2	14.00	581,351.80	779,695.76
10,900.0	65.38	139.00	10,805.1	7,150.6	-180.2	156.6	197.8	14.00	581,334.90	779,710.45
10,925.0	68.88	139.00	10,814.8	7,160.3	-197.6	171.8	216.9	14.00	581,317.52	779,725.56
10,950.0	72.38	139.00	10,823.1	7,168.6	-215.4	187.2	236.4	14.00	581,299.72	779,741.03
10,975.0	75.88	139.00	10,829.9	7,175.4	-233.5	203.0	256.3	14.00	581,281.57	779,756.80
11,000.0	79.38	139.00	10,835.2	7,180.7	-251.9	219.0	276.5	14.00	581,263.15	779,772.82
11,025.0	82.88	139.00	10,839.1	7,184.6	-270.6	235.2	297.0	14.00	581,244.51	779,789.02
11,050.0	86.38	139.00	10,841.4	7,186.9	-289.4	251.5	317.6	14.00	581,225.73	779,805.35
11,075.9	90.00	139.00	10,842.3	7,187.8	-308.9	268.5	339.0	14.00	581,206.23	779,822.30
11,100.0	90.00	139.00	10,842.3	7,187.8	-327.1	284.3	359.0	0.00	581,188.01	779,838.14
11,200.0	90.00	139.00	10,842.3	7,187.8	-402.6	349.9	441.8	0.00	581,112.54	779,903.74
11,300.0	90.00	139.00	10,842.3	7,187.8	-478.0	415.5	524.7	0.00	581,037.07	779,969.35



MOJO Standard Survey



Company:	Read and Stevens Inc.	Local Co-ordinate Reference:	Well North Lea 9 Federal Com #1H
Project:	North Lea Prospect T20S-R34E	TVD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Site:	Section 9	MD Reference:	WELL (copy) @ 3654.5usft (Original Well Elev)
Well:	North Lea 9 Federal Com #1H	North Reference:	Grid
Wellbore:	North Lea 9 Federal Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	130917 North Lea 9 Fed Com 1H	Database:	EDM 5000.1 Single User Db

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
11,400.0	90.00	139.00	10,842.3	7,187.8	-553.5	481.2	607.5	0.00	580,961.60	780,034.95	
11,445.9	90.00	139.00	10,842.3	7,187.8	-588.1	511.2	645.5	0.00	580,926.99	780,065.04	
11,450.0	90.00	139.58	10,842.3	7,187.8	-591.3	513.9	648.9	14.00	580,923.85	780,067.74	
11,475.0	90.00	143.08	10,842.3	7,187.8	-610.8	529.6	670.2	14.00	580,904.33	780,083.36	
11,500.0	90.00	146.58	10,842.3	7,187.8	-631.2	544.0	692.2	14.00	580,883.90	780,097.75	
11,525.0	90.00	150.08	10,842.3	7,187.8	-652.5	557.1	714.9	14.00	580,862.63	780,110.88	
11,550.0	90.00	153.58	10,842.3	7,187.8	-674.5	568.9	738.2	14.00	580,840.59	780,122.68	
11,575.0	90.00	157.08	10,842.3	7,187.8	-697.2	579.3	762.0	14.00	580,817.88	780,133.11	
11,600.0	90.00	160.58	10,842.3	7,187.8	-720.5	588.3	786.2	14.00	580,794.57	780,142.14	
11,625.0	90.00	164.08	10,842.3	7,187.8	-744.4	595.9	810.8	14.00	580,770.76	780,149.72	
11,650.0	90.00	167.58	10,842.3	7,187.8	-768.6	602.0	835.6	14.00	580,746.52	780,155.84	
11,675.0	90.00	171.08	10,842.3	7,187.8	-793.2	606.7	860.5	14.00	580,721.96	780,160.47	
11,700.0	90.00	174.58	10,842.3	7,187.8	-818.0	609.8	885.5	14.00	580,697.16	780,163.59	
11,725.0	90.00	178.08	10,842.3	7,187.8	-842.9	611.4	910.5	14.00	580,672.21	780,165.19	
11,738.7	90.00	180.00	10,842.3	7,187.8	-856.6	611.6	924.1	14.00	580,658.50	780,165.42	
11,800.0	89.96	179.98	10,842.3	7,187.8	-917.9	611.6	985.0	0.07	580,597.22	780,165.43	
11,900.0	89.90	179.95	10,842.4	7,187.9	-1,017.9	611.7	1,084.2	0.07	580,497.22	780,165.49	
12,000.0	89.84	179.91	10,842.6	7,188.1	-1,117.9	611.8	1,183.5	0.07	580,397.22	780,165.61	
12,100.0	89.78	179.88	10,842.9	7,188.4	-1,217.9	612.0	1,282.8	0.07	580,297.23	780,165.79	
12,200.0	89.72	179.85	10,843.4	7,188.9	-1,317.9	612.2	1,382.1	0.07	580,197.23	780,166.03	
12,300.0	89.67	179.82	10,843.9	7,189.4	-1,417.9	612.5	1,481.4	0.07	580,097.23	780,166.32	
12,400.0	89.61	179.78	10,844.5	7,190.0	-1,517.9	612.9	1,580.7	0.07	579,997.24	780,166.67	
12,500.0	89.55	179.75	10,845.3	7,190.8	-1,617.9	613.3	1,680.0	0.07	579,897.25	780,167.07	
12,600.0	89.49	179.72	10,846.1	7,191.6	-1,717.9	613.7	1,779.4	0.07	579,797.25	780,167.53	
12,700.0	89.43	179.69	10,847.1	7,192.6	-1,817.9	614.3	1,878.7	0.07	579,697.26	780,168.05	
12,800.0	89.37	179.65	10,848.1	7,193.6	-1,917.9	614.8	1,978.0	0.07	579,597.27	780,168.63	
12,900.0	89.31	179.62	10,849.3	7,194.8	-2,017.9	615.5	2,077.4	0.07	579,497.28	780,169.27	



MOJO Standard Survey



Company: Read and Stevens Inc.
 Project: North Lea Prospect T20S-R34E
 Site: Section 9
 Well: North Lea 9 Federal Com #1H
 Wellbore: North Lea 9 Federal Com #1H
 Design: 130917 North Lea 9 Fed Com 1H

Local Co-ordinate Reference: Well North Lea 9 Federal Com #1H
 TVD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
 MD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
13,000.0	89.25	179.59	10,850.5	7,196.0	-2,117.8	616.2	2,176.7	0.07	579,397.30	780,169.96
13,100.0	89.19	179.56	10,851.9	7,197.4	-2,217.8	616.9	2,276.1	0.07	579,297.31	780,170.70
13,200.0	89.13	179.52	10,853.4	7,198.9	-2,317.8	617.7	2,375.4	0.07	579,197.33	780,171.51
13,300.0	89.07	179.49	10,854.9	7,200.4	-2,417.8	618.6	2,474.8	0.07	579,097.35	780,172.37
13,400.0	89.01	179.46	10,856.6	7,202.1	-2,517.8	619.5	2,574.1	0.07	578,997.37	780,173.29
13,500.0	88.95	179.42	10,858.4	7,203.9	-2,617.8	620.5	2,673.5	0.07	578,897.39	780,174.27
13,600.0	88.89	179.39	10,860.3	7,205.8	-2,717.7	621.5	2,772.9	0.07	578,797.42	780,175.30
13,700.0	88.83	179.36	10,862.3	7,207.8	-2,817.7	622.6	2,872.2	0.07	578,697.44	780,176.39
13,800.0	88.77	179.33	10,864.4	7,209.9	-2,917.7	623.7	2,971.6	0.07	578,597.48	780,177.54
13,900.0	88.71	179.29	10,866.6	7,212.1	-3,017.7	624.9	3,071.0	0.07	578,497.51	780,178.74
14,000.0	88.65	179.26	10,868.9	7,214.4	-3,117.6	626.2	3,170.4	0.07	578,397.55	780,180.00
14,100.0	88.59	179.23	10,871.3	7,216.8	-3,217.6	627.5	3,269.8	0.07	578,297.59	780,181.32
14,200.0	88.53	179.20	10,873.8	7,219.3	-3,317.5	628.9	3,369.2	0.07	578,197.63	780,182.69
14,300.0	88.47	179.16	10,876.4	7,221.9	-3,417.5	630.3	3,468.6	0.07	578,097.68	780,184.13
14,400.0	88.41	179.13	10,879.1	7,224.6	-3,517.5	631.8	3,568.0	0.07	577,997.73	780,185.62
14,491.2	88.36	179.10	10,881.7	7,227.2	-3,608.6	633.2	3,658.6	0.07	577,906.62	780,187.02
14,500.0	88.36	179.10	10,882.0	7,227.5	-3,617.4	633.4	3,667.4	0.00	577,897.78	780,187.16
14,600.0	88.36	179.10	10,884.8	7,230.3	-3,717.3	634.9	3,766.8	0.00	577,797.84	780,188.73
14,700.0	88.36	179.10	10,887.7	7,233.2	-3,817.3	636.5	3,866.2	0.00	577,697.89	780,190.30
14,800.0	88.36	179.10	10,890.6	7,236.1	-3,917.2	638.1	3,965.6	0.00	577,597.95	780,191.87
14,900.0	88.36	179.10	10,893.4	7,238.9	-4,017.2	639.6	4,065.0	0.00	577,498.01	780,193.44
15,000.0	88.36	179.10	10,896.3	7,241.8	-4,117.1	641.2	4,164.4	0.00	577,398.06	780,195.01
15,100.0	88.36	179.10	10,899.2	7,244.7	-4,217.1	642.8	4,263.8	0.00	577,298.12	780,196.58
15,200.0	88.36	179.10	10,902.0	7,247.5	-4,317.0	644.4	4,363.2	0.00	577,198.17	780,198.15
15,300.0	88.36	179.10	10,904.9	7,250.4	-4,417.0	645.9	4,462.6	0.00	577,098.23	780,199.72
15,400.0	88.36	179.10	10,907.8	7,253.3	-4,516.9	647.5	4,562.0	0.00	576,998.29	780,201.29
15,500.0	88.36	179.10	10,910.6	7,256.1	-4,616.9	649.1	4,661.4	0.00	576,898.34	780,202.86



MOJO Standard Survey



Company: Read and Stevens Inc.
Project: North Lea Prospect T20S-R34E
Site: Section 9
Well: North Lea 9 Federal Com #1H
Wellbore: North Lea 9 Federal Com #1H
Design: 130917 North Lea 9 Fed Com 1H

Local Co-ordinate Reference: Well North Lea 9 Federal Com #1H
TVD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
MD Reference: WELL (copy) @ 3654.5usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
15,600.0	88.36	179.10	10,913.5	7,259.0	-4,716.8	650.6	4,760.9	0.00	576,798.40	780,204.43
15,700.0	88.36	179.10	10,916.4	7,261.9	-4,816.8	652.2	4,860.3	0.00	576,698.45	780,206.00
15,800.0	88.36	179.10	10,919.2	7,264.7	-4,916.7	653.8	4,959.7	0.00	576,598.51	780,207.57
15,900.0	88.36	179.10	10,922.1	7,267.6	-5,016.7	655.3	5,059.1	0.00	576,498.57	780,209.14
16,000.0	88.36	179.10	10,925.0	7,270.5	-5,116.6	656.9	5,158.5	0.00	576,398.62	780,210.71
16,100.0	88.36	179.10	10,927.8	7,273.3	-5,216.5	658.5	5,257.9	0.00	576,298.68	780,212.28
16,200.0	88.36	179.10	10,930.7	7,276.2	-5,316.5	660.1	5,357.3	0.00	576,198.73	780,213.85
16,297.8	88.36	179.10	10,933.5	7,279.0	-5,414.2	661.6	5,454.5	0.00	576,101.03	780,215.38
16,300.0	88.36	179.10	10,933.5	7,279.0	-5,416.4	661.6	5,456.7	0.09	576,098.79	780,215.42
16,333.2	88.36	179.07	10,934.5	7,280.0	-5,449.6	662.2	5,489.7	0.09	576,065.61	780,215.95

Checked By: _____ Approved By: _____ Date: _____

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

Well Information

Surface Location

X = 779553.81'

Y = 581515.09'

K.B. = 3654.50'

Declination Corr.

= 7.00 TO GRID

Reference North is Grid North

Grid Convergence is 0.417 degrees East

Map System : North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone

MD (ft)	Incl.	Azim.	SSDepth (ft)	TVD (ft)	Northings (ft)	Eastings (ft)	GridNorth (ft)	GridEast (ft)	VS (ft)	DLS (-/100ft)
0	0	0	-3654.5	0	0	0	581515.1	779553.8	0	0
100	0	0	-3554.5	100	0	0	581515.1	779553.8	0	0
200	0	0	-3454.5	200	0	0	581515.1	779553.8	0	0
300	0	0	-3354.5	300	0	0	581515.1	779553.8	0	0
400	0	0	-3254.5	400	0	0	581515.1	779553.8	0	0
500	0	0	-3154.5	500	0	0	581515.1	779553.8	0	0
600	0	0	-3054.5	600	0	0	581515.1	779553.8	0	0
700	0	0	-2954.5	700	0	0	581515.1	779553.8	0	0
800	0	0	-2854.5	800	0	0	581515.1	779553.8	0	0
900	0	0	-2754.5	900	0	0	581515.1	779553.8	0	0
1000	0	0	-2654.5	1000	0	0	581515.1	779553.8	0	0
1100	0	0	-2554.5	1100	0	0	581515.1	779553.8	0	0
1200	0	0	-2454.5	1200	0	0	581515.1	779553.8	0	0
1300	0	0	-2354.5	1300	0	0	581515.1	779553.8	0	0
1400	0	0	-2254.5	1400	0	0	581515.1	779553.8	0	0
1500	0	0	-2154.5	1500	0	0	581515.1	779553.8	0	0
1600	0	0	-2054.5	1600	0	0	581515.1	779553.8	0	0
1700	0	0	-1954.5	1700	0	0	581515.1	779553.8	0	0
1800	0	0	-1854.5	1800	0	0	581515.1	779553.8	0	0
1900	0	0	-1754.5	1900	0	0	581515.1	779553.8	0	0
2000	0	0	-1654.5	2000	0	0	581515.1	779553.8	0	0
2100	0	0	-1554.5	2100	0	0	581515.1	779553.8	0	0
2200	0	0	-1454.5	2200	0	0	581515.1	779553.8	0	0
2300	0	0	-1354.5	2300	0	0	581515.1	779553.8	0	0

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

Well Information

Surface Location

X = 779553.81'

Y = 581515.09'

K.B. = 3654.50'

Declination Corr.

= 7.00 TO GRID

Reference North is Grid North

Grid Convergence is 0.417 degrees East

Map System : North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone

MD (ft)	Incl.	Azim.	SSDepth (ft)	TVD (ft)	Northings (ft)	Eastings (ft)	GridNorth (ft)	GridEast (ft)	VS (ft)	DLS (-/100ft)
2400	0	0	-1254.5	2400	0	0	581515.1	779553.8	0	0
2500	0	0	-1154.5	2500	0	0	581515.1	779553.8	0	0
2600	0	0	-1054.5	2600	0	0	581515.1	779553.8	0	0
2700	0	0	-954.5	2700	0	0	581515.1	779553.8	0	0
2800	0	0	-854.5	2800	0	0	581515.1	779553.8	0	0
2900	0	0	-754.5	2900	0	0	581515.1	779553.8	0	0
3000	0	0	-654.5	3000	0	0	581515.1	779553.8	0	0
3100	0	0	-554.5	3100	0	0	581515.1	779553.8	0	0
3200	0	0	-454.5	3200	0	0	581515.1	779553.8	0	0
3300	0	0	-354.5	3300	0	0	581515.1	779553.8	0	0
3400	0	0	-254.5	3400	0	0	581515.1	779553.8	0	0
3500	0	0	-154.5	3500	0	0	581515.1	779553.8	0	0
3600	0	0	-54.5	3600	0	0	581515.1	779553.8	0	0
3700	0	0	45.5	3700	0	0	581515.1	779553.8	0	0
3800	0	0	145.5	3800	0	0	581515.1	779553.8	0	0
3900	0	0	245.5	3900	0	0	581515.1	779553.8	0	0
4000	0	0	345.5	4000	0	0	581515.1	779553.8	0	0
4100	0	0	445.5	4100	0	0	581515.1	779553.8	0	0
4200	0	0	545.5	4200	0	0	581515.1	779553.8	0	0
4300	0	0	645.5	4300	0	0	581515.1	779553.8	0	0
4400	0	0	745.5	4400	0	0	581515.1	779553.8	0	0
4500	0	0	845.5	4500	0	0	581515.1	779553.8	0	0
4600	0	0	945.5	4600	0	0	581515.1	779553.8	0	0
4700	0	0	1045.5	4700	0	0	581515.1	779553.8	0	0
4800	0	0	1145.5	4800	0	0	581515.1	779553.8	0	0

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

Well Information

Surface Location

X = 779553.81'

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K.B. = 3654.50'

Declination Corr.

= 7.00 TO GRID

Reference North is Grid North

Grid Convergence is 0.417 degrees East

Map System : North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone

MD (ft)	Incl.	Azim.	SSDepth (ft)	TVD (ft)	Northings (ft)	Eastings (ft)	GridNorth (ft)	GridEast (ft)	VS (ft)	DLS (-/100ft)
4900	0	0	1245.5	4900	0	0	581515.1	779553.8	0	0
5000	0	0	1345.5	5000	0	0	581515.1	779553.8	0	0
5100	0	0	1445.5	5100	0	0	581515.1	779553.8	0	0
5200	0	0	1545.5	5200	0	0	581515.1	779553.8	0	0
5300	0	0	1645.5	5300	0	0	581515.1	779553.8	0	0
5400	0	0	1745.5	5400	0	0	581515.1	779553.8	0	0
5500	0	0	1845.5	5500	0	0	581515.1	779553.8	0	0
5600	0	0	1945.5	5600	0	0	581515.1	779553.8	0	0
5700	0	0	2045.5	5700	0	0	581515.1	779553.8	0	0
5800	0	0	2145.5	5800	0	0	581515.1	779553.8	0	0
5900	0	0	2245.5	5900	0	0	581515.1	779553.8	0	0
6000	0	0	2345.5	6000	0	0	581515.1	779553.8	0	0
6100	0	0	2445.5	6100	0	0	581515.1	779553.8	0	0
6200	0	0	2545.5	6200	0	0	581515.1	779553.8	0	0
6300	0	0	2645.5	6300	0	0	581515.1	779553.8	0	0
6400	0	0	2745.5	6400	0	0	581515.1	779553.8	0	0
6500	0	0	2845.5	6500	0	0	581515.1	779553.8	0	0
6600	0	0	2945.5	6600	0	0	581515.1	779553.8	0	0
6700	0	0	3045.5	6700	0	0	581515.1	779553.8	0	0
6800	0	0	3145.5	6800	0	0	581515.1	779553.8	0	0
6900	0	0	3245.5	6900	0	0	581515.1	779553.8	0	0
7000	0	0	3345.5	7000	0	0	581515.1	779553.8	0	0
7100	0	0	3445.5	7100	0	0	581515.1	779553.8	0	0
7200	0	0	3545.5	7200	0	0	581515.1	779553.8	0	0
7300	0	0	3645.5	7300	0	0	581515.1	779553.8	0	0

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

Well Information

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7400	0	0	3745.5	7400	0	0	581515.1	779553.8	0	0
7500	0	0	3845.5	7500	0	0	581515.1	779553.8	0	0
7600	0	0	3945.5	7600	0	0	581515.1	779553.8	0	0
7700	0	0	4045.5	7700	0	0	581515.1	779553.8	0	0
7800	0	0	4145.5	7800	0	0	581515.1	779553.8	0	0
7900	0	0	4245.5	7900	0	0	581515.1	779553.8	0	0
8000	0	0	4345.5	8000	0	0	581515.1	779553.8	0	0
8100	0	0	4445.5	8100	0	0	581515.1	779553.8	0	0
8200	0	0	4545.5	8200	0	0	581515.1	779553.8	0	0
8300	0	0	4645.5	8300	0	0	581515.1	779553.8	0	0
8400	0	0	4745.5	8400	0	0	581515.1	779553.8	0	0
8500	0	0	4845.5	8500	0	0	581515.1	779553.8	0	0
8600	0	0	4945.5	8600	0	0	581515.1	779553.8	0	0
8700	0	0	5045.5	8700	0	0	581515.1	779553.8	0	0
8800	0	0	5145.5	8800	0	0	581515.1	779553.8	0	0
8900	0	0	5245.5	8900	0	0	581515.1	779553.8	0	0
9000	0	0	5345.5	9000	0	0	581515.1	779553.8	0	0
9100	0	0	5445.5	9100	0	0	581515.1	779553.8	0	0
9200	0	0	5545.5	9200	0	0	581515.1	779553.8	0	0
9300	0	0	5645.5	9300	0	0	581515.1	779553.8	0	0
9400	0	0	5745.5	9400	0	0	581515.1	779553.8	0	0
9500	0	0	5845.5	9500	0	0	581515.1	779553.8	0	0
9600	0	0	5945.5	9600	0	0	581515.1	779553.8	0	0
9700	0	0	6045.5	9700	0	0	581515.1	779553.8	0	0
9800	0	0	6145.5	9800	0	0	581515.1	779553.8	0	0

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

Well Information

Surface Location

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Declination Corr.

= 7.00 TO GRID

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MD (ft)	Incl.	Azim.	SSDepth (ft)	TVD (ft)	Northings (ft)	Eastings (ft)	GridNorth (ft)	GridEast (ft)	VS (ft)	DLS (-/100ft)
9900	0	0	6245.5	9900	0	0	581515.1	779553.8	0	0
10000	0	0	6345.5	10000	0	0	581515.1	779553.8	0	0
10100	0	0	6445.5	10100	0	0	581515.1	779553.8	0	0
10200	0	0	6545.5	10200	0	0	581515.1	779553.8	0	0
10300	0	0	6645.5	10300	0	0	581515.1	779553.8	0	0
10400	0	0	6745.5	10400	0	0	581515.1	779553.8	0	0
10433	0	0	6778.5	10433	0	0	581515.1	779553.8	0	0
10450	2.38	139	6795.5	10450	-0.27	0.23	581514.8	779554	0.29	14
10475	5.88	139	6820.43	10474.93	-1.63	1.41	581513.5	779555.2	1.78	14
10500	9.38	139	6845.2	10499.7	-4.13	3.59	581511	779557.4	4.53	14
10525	12.88	139	6869.73	10524.23	-7.77	6.76	581507.3	779560.6	8.53	14
10550	16.38	139	6893.91	10548.41	-12.54	10.9	581502.6	779564.7	13.76	14
10575	19.88	139	6917.67	10572.17	-18.41	16	581496.7	779569.8	20.2	14
10600	23.38	139	6940.9	10595.4	-25.36	22.05	581489.7	779575.9	27.83	14
10625	26.88	139	6963.53	10618.03	-33.37	29.01	581481.7	779582.8	36.63	14
10650	30.38	139	6985.47	10639.97	-42.41	36.87	581472.7	779590.7	46.55	14
10675	33.88	139	7006.64	10661.14	-52.44	45.59	581462.6	779599.4	57.56	14
10700	37.38	139	7026.96	10681.46	-63.43	55.14	581451.7	779609	69.62	14
10725	40.88	139	7046.35	10700.85	-75.34	65.49	581439.8	779619.3	82.69	14
10750	44.38	139	7064.74	10719.24	-88.12	76.6	581427	779630.4	96.71	14
10775	47.88	139	7082.06	10736.56	-101.72	88.42	581413.4	779642.2	111.64	14
10800	51.38	139	7098.25	10752.75	-116.09	100.91	581399	779654.7	127.41	14
10825	54.88	139	7113.25	10767.75	-131.18	114.03	581383.9	779667.8	143.98	14
10850	58.38	139	7127	10781.5	-146.93	127.73	581368.2	779681.5	161.27	14
10875	61.88	139	7139.45	10793.95	-163.29	141.95	581351.8	779695.8	179.22	14

Company Information
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 SECTION 9

Well Information

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10900	65.38	139	7150.55	10805.05	-180.19	156.64	581334.9	779710.4	197.77	14
10925	68.88	139	7160.26	10814.76	-197.58	171.75	581317.5	779725.6	216.85	14
10950	72.38	139	7168.56	10823.06	-215.37	187.22	581299.7	779741	236.38	14
10975	75.88	139	7175.39	10829.89	-233.52	203	581281.6	779756.8	256.3	14
11000	79.38	139	7180.75	10835.25	-251.95	219.01	581263.1	779772.8	276.52	14
11025	82.88	139	7184.6	10839.1	-270.59	235.22	581244.5	779789	296.98	14
11050	86.38	139	7186.94	10841.44	-289.37	251.54	581225.7	779805.3	317.6	14
11075.86	90	139	7187.76	10842.26	-308.87	268.5	581206.2	779822.3	339	14
11100	90	139	7187.76	10842.26	-327.09	284.33	581188	779838.1	359	0
11200	90	139	7187.76	10842.26	-402.56	349.94	581112.5	779903.7	441.83	0
11300	90	139	7187.76	10842.26	-478.03	415.55	581037.1	779969.3	524.66	0
11400	90	139	7187.76	10842.26	-553.5	481.15	580961.6	780035	607.5	0
11445.86	90	139	7187.76	10842.26	-588.11	511.24	580927	780065	645.48	0
11450	90	139.58	7187.76	10842.26	-591.25	513.94	580923.9	780067.7	648.93	14
11475	90	143.08	7187.76	10842.26	-610.77	529.56	580904.3	780083.4	670.18	14
11500	90	146.58	7187.76	10842.26	-631.2	543.96	580883.9	780097.8	692.2	14
11525	90	150.08	7187.76	10842.26	-652.47	557.08	580862.6	780110.9	714.9	14
11550	90	153.58	7187.76	10842.26	-674.51	568.88	580840.6	780122.7	738.2	14
11575	90	157.08	7187.76	10842.26	-697.22	579.31	580817.9	780133.1	762.01	14
11600	90	160.58	7187.76	10842.26	-720.53	588.34	580794.6	780142.1	786.24	14
11625	90	164.08	7187.76	10842.26	-744.35	595.93	580770.8	780149.7	810.8	14
11650	90	167.58	7187.76	10842.26	-768.59	602.05	580746.5	780155.8	835.59	14
11675	90	171.08	7187.76	10842.26	-793.15	606.67	580722	780160.5	860.53	14
11700	90	174.58	7187.76	10842.26	-817.95	609.79	580697.2	780163.6	885.53	14
11725	90	178.08	7187.76	10842.26	-842.9	611.39	580672.2	780165.2	910.49	14

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
 SECTION 9

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11738.71	90	180	7187.76	10842.26	-856.61	611.62	580658.5	780165.4	924.13	14
11800	89.963	179.98	7187.78	10842.28	-917.89	611.63	580597.2	780165.4	984.97	0.07
11900	89.904	179.947	7187.89	10842.39	-1017.89	611.7	580497.2	780165.5	1084.24	0.07
12000	89.844	179.915	7188.11	10842.61	-1117.89	611.82	580397.2	780165.6	1183.53	0.07
12100	89.784	179.882	7188.44	10842.94	-1217.89	612	580297.2	780165.8	1282.82	0.07
12200	89.725	179.849	7188.86	10843.36	-1317.89	612.23	580197.2	780166	1382.11	0.07
12300	89.665	179.817	7189.4	10843.9	-1417.89	612.52	580097.2	780166.3	1481.42	0.07
12400	89.605	179.784	7190.03	10844.53	-1517.89	612.87	579997.2	780166.7	1580.73	0.07
12500	89.546	179.751	7190.77	10845.27	-1617.88	613.28	579897.2	780167.1	1680.04	0.07
12600	89.486	179.719	7191.62	10846.12	-1717.88	613.74	579797.3	780167.5	1779.36	0.07
12700	89.426	179.686	7192.57	10847.07	-1817.87	614.26	579697.3	780168.1	1878.69	0.07
12800	89.367	179.653	7193.62	10848.12	-1917.87	614.84	579597.3	780168.6	1978.02	0.07
12900	89.307	179.62	7194.78	10849.28	-2017.86	615.47	579497.3	780169.3	2077.36	0.07
13000	89.247	179.588	7196.04	10850.54	-2117.85	616.16	579397.3	780170	2176.7	0.07
13100	89.188	179.555	7197.41	10851.91	-2217.83	616.91	579297.3	780170.7	2276.05	0.07
13200	89.128	179.522	7198.88	10853.38	-2317.82	617.71	579197.3	780171.5	2375.4	0.07
13300	89.068	179.49	7200.45	10854.95	-2417.8	618.58	579097.3	780172.4	2474.76	0.07
13400	89.009	179.457	7202.13	10856.63	-2517.79	619.49	578997.4	780173.3	2574.13	0.07
13500	88.949	179.424	7203.91	10858.41	-2617.76	620.47	578897.4	780174.3	2673.49	0.07
13600	88.889	179.392	7205.8	10860.3	-2717.74	621.5	578797.4	780175.3	2772.86	0.07
13700	88.83	179.359	7207.79	10862.29	-2817.72	622.59	578697.4	780176.4	2872.24	0.07
13800	88.77	179.326	7209.88	10864.38	-2917.69	623.74	578597.5	780177.5	2971.62	0.07
13900	88.71	179.294	7212.08	10866.58	-3017.66	624.95	578497.5	780178.7	3071	0.07
14000	88.651	179.261	7214.38	10868.88	-3117.62	626.21	578397.5	780180	3170.39	0.07
14100	88.591	179.228	7216.79	10871.29	-3217.58	627.52	578297.6	780181.3	3269.78	0.07

Company Information
 READ AND STEVENS INC.
 NORTH LEA PROSPECT T20S-R34E
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14200	88.531	179.195	7219.3	10873.8	-3317.54	628.9	578197.6	780182.7	3369.18	0.07
14300	88.472	179.163	7221.92	10876.42	-3417.5	630.33	578097.7	780184.1	3468.58	0.07
14400	88.412	179.13	7224.63	10879.13	-3517.45	631.82	577997.7	780185.6	3567.98	0.07
14491.15	88.358	179.1	7227.2	10881.7	-3608.56	633.23	577906.6	780187	3658.59	0.07
14500	88.358	179.1	7227.46	10881.96	-3617.4	633.37	577897.8	780187.2	3667.38	0
14600	88.358	179.1	7230.32	10884.82	-3717.35	634.94	577797.8	780188.7	3766.79	0
14700	88.358	179.1	7233.19	10887.69	-3817.29	636.51	577697.9	780190.3	3866.2	0
14800	88.358	179.1	7236.06	10890.56	-3917.24	638.08	577598	780191.9	3965.6	0
14900	88.358	179.1	7238.92	10893.42	-4017.18	639.65	577498	780193.4	4065.01	0
15000	88.358	179.1	7241.79	10896.29	-4117.13	641.22	577398.1	780195	4164.41	0
15100	88.358	179.1	7244.65	10899.15	-4217.08	642.78	577298.1	780196.6	4263.82	0
15200	88.358	179.1	7247.52	10902.02	-4317.02	644.35	577198.2	780198.1	4363.23	0
15300	88.358	179.1	7250.39	10904.89	-4416.97	645.92	577098.2	780199.7	4462.63	0
15400	88.358	179.1	7253.25	10907.75	-4516.92	647.49	576998.3	780201.3	4562.04	0
15500	88.358	179.1	7256.12	10910.62	-4616.86	649.06	576898.3	780202.9	4661.45	0
15600	88.358	179.1	7258.99	10913.49	-4716.81	650.63	576798.4	780204.4	4760.85	0
15700	88.358	179.1	7261.85	10916.35	-4816.76	652.2	576698.5	780206	4860.26	0
15800	88.358	179.1	7264.72	10919.22	-4916.7	653.77	576598.5	780207.6	4959.66	0
15900	88.358	179.1	7267.58	10922.08	-5016.65	655.34	576498.6	780209.1	5059.07	0
16000	88.358	179.1	7270.45	10924.95	-5116.6	656.91	576398.6	780210.7	5158.48	0
16100	88.358	179.1	7273.32	10927.82	-5216.54	658.48	576298.7	780212.3	5257.88	0
16200	88.358	179.1	7276.18	10930.68	-5316.49	660.05	576198.7	780213.8	5357.29	0
16297.76	88.358	179.1	7278.99	10933.49	-5414.2	661.59	576101	780215.4	5454.47	0
16300	88.358	179.098	7279.05	10933.55	-5416.44	661.62	576098.8	780215.4	5456.69	0.09
16333.2	88.36	179.07	7280	10934.5	-5449.62	662.15	576065.6	780215.9	5489.7	0.09

Company Information
READ AND STEVENS INC.
NORTH LEA PROSPECT T20S-R34E
SECTION 9

Well Information
Surface Location
X = 779553.81'
Y = 581515.09'
K.B. = 3654.50'
Declination Corr.
= 7.00 TO GRID

Reference North is Grid North
Grid Convergence is 0.417 degrees East
Map System : North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone

MD	Incl.	Azim.	SSDepth	TVD	Northings	Eastings	GridNorth	GridEast	VS	DLS
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(-/100ft)

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to WELL (copy). Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 173.072- (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.417-.

Based upon Minimum Curvature type calculations, at a Measured Depth of 16333.20ft.,
the Bottom Hole Displacement is 5489.70ft., in the Direction of 173.072- (Grid).