

DEVON ENERGY

Project: Eddy County, NM (NAD-83)
Site: Boss Hogg 15 State Com
Well: 3H
Wellbore: OH
Design: Plan #1 Draft 1



Azimuths to Grid North
True North: -0.03°
Magnetic North: 7.70°

Magnetic Field
Strength: 48322.8nT
Dip Angle: 60.07°
Date: 11/25/2013
Model: BGGM2013

devon

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

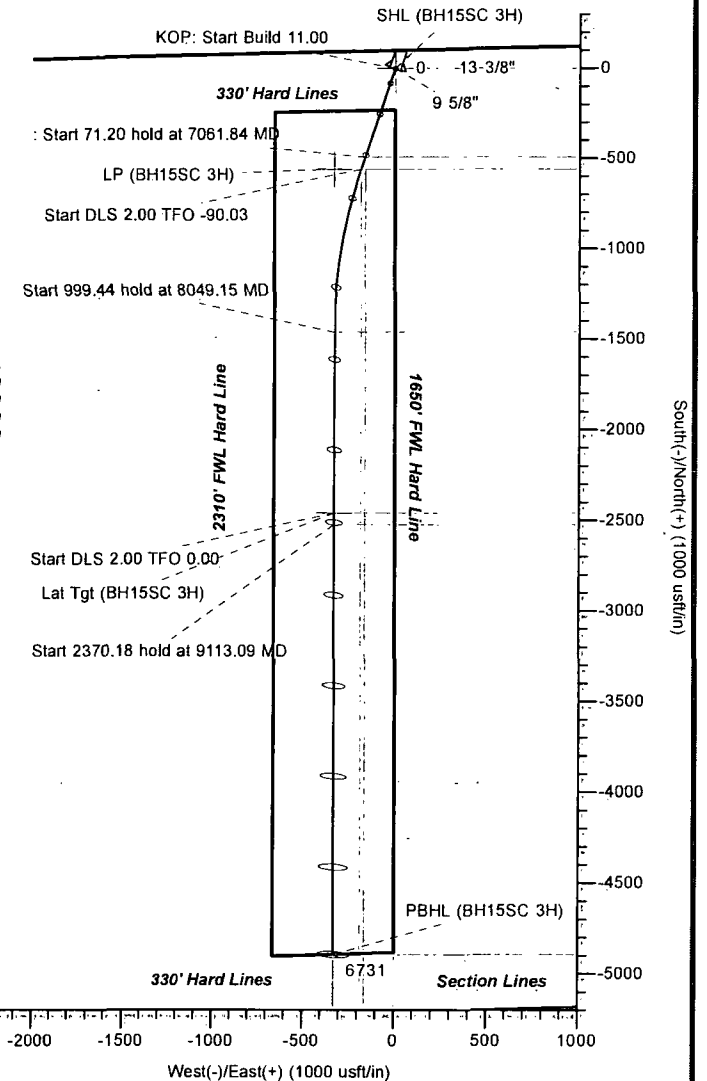
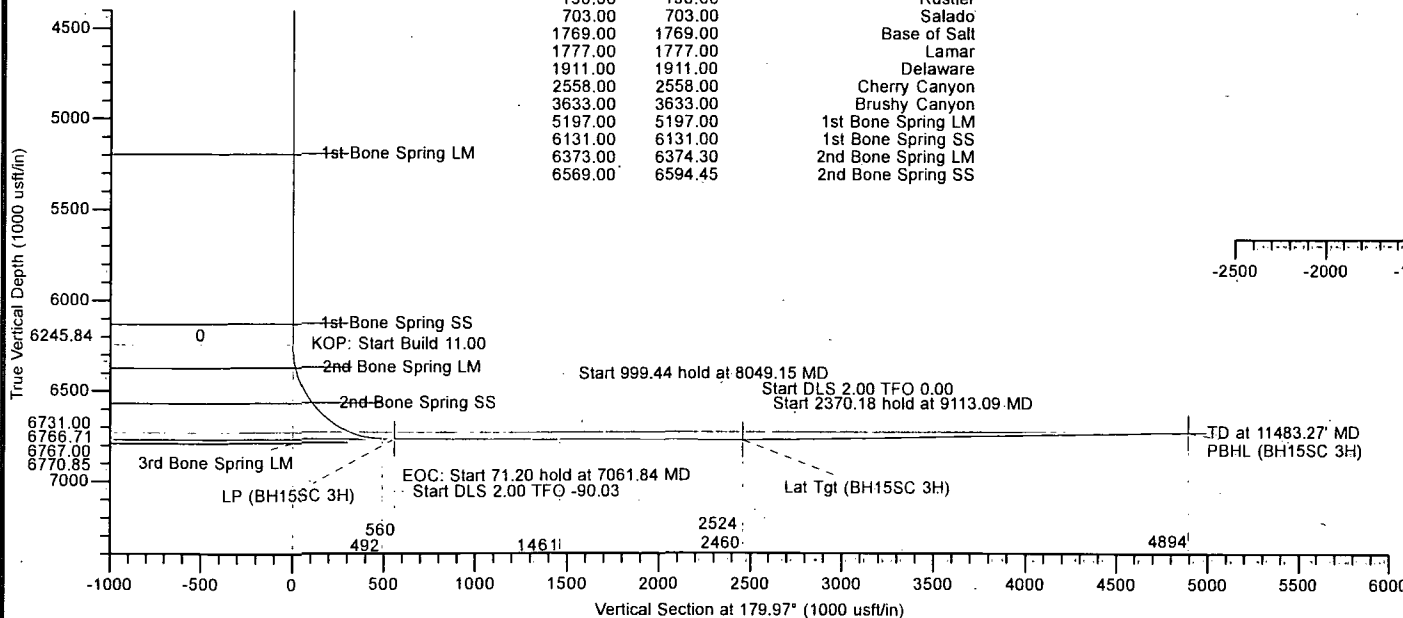
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (BH15SC 3H)	0.00	0.00	0.00	477082.12	558559.11	32° 18' 41.613 N	104° 16' 39.318 W
PBHL (BH15SC 3H)	6731.00	-4894.44	-327.91	472187.68	558231.20	32° 17' 53.180 N	104° 16' 43.168 W
LP (BH15SC 3H)	6767.00	-560.17	-330.10	476521.96	558229.00	32° 18' 36.072 N	104° 16' 43.168 W
Lat Tgt (BH15SC 3H)	6775.00	-2460.17	-329.14	474621.96	558229.97	32° 18' 17.270 N	104° 16' 43.168 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 11.00
2	6245.84	0.00	0.00	6245.84	0.00	0.00	0.00	0.00	0.00	EOC: Start 71.20 hold at 7061.84 MD
3	7061.84	89.76	198.29	6766.71	-492.48	-162.78	11.00	198.29	492.40	Start DLS 2.00 TFO -90.03
4	7133.04	89.76	198.29	6767.00	-560.09	-185.12	0.00	0.00	559.99	Start 999.44 hold at 8049.15 MD
5	8049.15	89.76	179.97	6770.85	-1460.74	-329.85	2.00	-90.03	1460.57	Start DLS 2.00 TFO 0.00
6	9048.59	89.76	179.97	6775.00	-2460.17	-329.29	0.00	0.00	2459.99	Start 2370.18 hold at 9113.09 MD
7	9113.09	91.05	179.97	6774.54	-2524.67	-329.25	2.00	0.00	2524.49	TD at 11483.27 MD
8	11483.27	91.05	179.97	6731.00	-4894.44	-327.91	0.00	0.00	4894.27	

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
190.00	190.00	Rustler
703.00	703.00	Salado
1769.00	1769.00	Base of Salt
1777.00	1777.00	Lamar
1911.00	1911.00	Delaware
2558.00	2558.00	Cherry Canyon
3633.00	3633.00	Brushy Canyon
5197.00	5197.00	1st Bone Spring LM
6131.00	6131.00	1st Bone Spring SS
6373.00	6374.30	2nd Bone Spring LM
6569.00	6594.45	2nd Bone Spring SS



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft 1 (3H/OH)
Boss Hogg 15 State Com
Created By: Heber Claros
Date: 20:31, November 25 2013
Approved: _____
Date: _____

30-015-41837

DEVON ENERGY

Eddy County, NM (NAD-83)

Boss Hogg 15 State Com

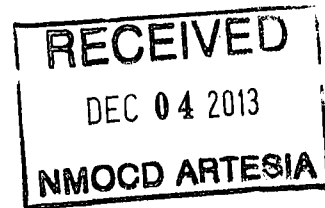
3H

OH

Plan: Plan #1 Draft 1

Standard Planning Report

25 November, 2013



Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 3H
Company:	DEVON ENERGY	TVD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Boss Hogg 15 State Com		
Site Position:	Lat/Long	Northing:	476,931.39 usft
From:		Easting:	555,488.56 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 18' 40.136 N
		Longitude:	104° 17' 15.099 W
		Grid Convergence:	0.02 °

Well	3H		
Well Position	+N/-S	150.74 usft	Northing:
	+E/-W	3,070.55 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 18' 41.613 N
		Longitude:	104° 16' 39.318 W
		Ground Level:	3,306.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2013	11/25/13	7.73
			Dip Angle
			60.07
			Field Strength
			48,323

Design	Plan #1 Draft 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			179.97

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6,245.84	0.00	0.00	6,245.84	0.00	0.00	0.00	0.00	0.00	0.00	
7,061.84	89.76	198.29	6,766.71	-492.48	-162.78	11.00	11.00	0.00	198.29	
7,133.04	89.76	198.29	6,767.00	-560.09	-185.12	0.00	0.00	0.00	0.00	LP (BH15SC 3H)
8,049.15	89.76	179.97	6,770.85	-1,460.74	-329.85	2.00	0.00	-2.00	-90.03	PBHL (BH15SC 3H)
9,048.59	89.76	179.97	6,775.00	-2,460.17	-329.29	0.00	0.00	0.00	0.00	Lat Tgt (BH15SC 3H)
9,113.09	91.05	179.97	6,774.54	-2,524.67	-329.25	2.00	2.00	0.00	0.00	
11,483.27	91.05	179.97	6,731.00	-4,894.44	-327.91	0.00	0.00	0.00	0.00	PBHL (BH15SC 3H)

Leam Drilling Systems LLC

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Company:	DEVON ENERGY	TVD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,450.00	22.46	198.29	6,444.81	-37.51	-12.40	37.50	11.00	11.00	0.00
6,500.00	27.96	198.29	6,490.03	-57.72	-19.08	57.71	11.00	11.00	0.00
6,550.00	33.46	198.29	6,533.01	-81.95	-27.09	81.94	11.00	11.00	0.00
6,594.45	38.35	198.29	6,569.00	-106.69	-35.26	106.67	11.00	11.00	0.00
2nd Bone Spring SS									
6,600.00	38.96	198.29	6,573.34	-109.98	-36.35	109.96	11.00	11.00	0.00
6,650.00	44.46	198.29	6,610.65	-141.56	-46.79	141.53	11.00	11.00	0.00
6,700.00	49.96	198.29	6,644.60	-176.38	-58.30	176.35	11.00	11.00	0.00
6,750.00	55.46	198.29	6,674.88	-214.14	-70.78	214.10	11.00	11.00	0.00
6,800.00	60.96	198.29	6,701.22	-254.47	-84.11	254.43	11.00	11.00	0.00
6,850.00	66.46	198.29	6,723.36	-297.02	-98.17	296.97	11.00	11.00	0.00
6,900.00	71.96	198.29	6,741.10	-341.38	-112.84	341.32	11.00	11.00	0.00
6,950.00	77.46	198.29	6,754.28	-387.16	-127.97	387.09	11.00	11.00	0.00
7,000.00	82.96	198.29	6,762.78	-433.92	-143.42	433.85	11.00	11.00	0.00
7,050.00	88.46	198.29	6,766.52	-481.24	-159.06	481.16	11.00	11.00	0.00
7,061.84	89.76	198.29	6,766.71	-492.48	-162.78	492.40	11.00	11.00	0.00
EOC: Start 71.20 hold at 7061.84 MD									
7,100.00	89.76	198.29	6,766.87	-528.72	-174.75	528.63	0.00	0.00	0.00
7,133.04	89.76	198.29	6,767.00	-560.09	-185.12	559.99	0.00	0.00	0.00
Start DLS 2.00 TFO -90.03									
7,177.00	89.76	197.41	6,767.19	-601.93	-198.60	601.83	2.00	0.00	-2.00
LP (BH15SC 3H)									
7,200.00	89.76	196.95	6,767.29	-623.90	-205.39	623.80	2.00	0.00	-2.00
7,300.00	89.76	194.95	6,767.71	-720.05	-232.87	719.93	2.00	0.00	-2.00
7,400.00	89.76	192.95	6,768.13	-817.09	-256.98	816.96	2.00	0.00	-2.00
7,500.00	89.76	190.95	6,768.55	-914.92	-277.68	914.77	2.00	0.00	-2.00
7,600.00	89.76	188.95	6,768.97	-1,013.41	-294.96	1,013.25	2.00	0.00	-2.00
7,700.00	89.76	186.95	6,769.39	-1,112.44	-308.80	1,112.28	2.00	0.00	-2.00
7,800.00	89.76	184.95	6,769.81	-1,211.90	-319.16	1,211.73	2.00	0.00	-2.00
7,900.00	89.76	182.95	6,770.23	-1,311.65	-326.05	1,311.48	2.00	0.00	-2.00
8,000.00	89.76	180.95	6,770.65	-1,411.59	-329.46	1,411.42	2.00	0.00	-2.00
8,049.15	89.76	179.97	6,770.85	-1,460.74	-329.85	1,460.57	2.00	0.00	-2.00
Start 999.44 hold at 8049.15 MD									
8,100.00	89.76	179.97	6,771.07	-1,511.59	-329.82	1,511.41	0.00	0.00	0.00
8,200.00	89.76	179.97	6,771.48	-1,611.59	-329.76	1,611.41	0.00	0.00	0.00
8,300.00	89.76	179.97	6,771.89	-1,711.58	-329.71	1,711.41	0.00	0.00	0.00
8,400.00	89.76	179.97	6,772.31	-1,811.58	-329.65	1,811.41	0.00	0.00	0.00
8,500.00	89.76	179.97	6,772.72	-1,911.58	-329.59	1,911.41	0.00	0.00	0.00
8,600.00	89.76	179.97	6,773.14	-2,011.58	-329.54	2,011.41	0.00	0.00	0.00
8,700.00	89.76	179.97	6,773.55	-2,111.58	-329.48	2,111.41	0.00	0.00	0.00
8,800.00	89.76	179.97	6,773.97	-2,211.58	-329.43	2,211.41	0.00	0.00	0.00
8,900.00	89.76	179.97	6,774.38	-2,311.58	-329.37	2,311.41	0.00	0.00	0.00
9,000.00	89.76	179.97	6,774.80	-2,411.58	-329.31	2,411.41	0.00	0.00	0.00
9,048.59	89.76	179.97	6,775.00	-2,460.17	-329.29	2,459.99	0.00	0.00	0.00
Start DLS 2.00 TFO 0.00 - Lat Tgt (BH15SC 3H)									
9,100.00	90.79	179.97	6,774.75	-2,511.58	-329.26	2,511.40	2.00	2.00	0.00
9,113.09	91.05	179.97	6,774.54	-2,524.67	-329.25	2,524.49	2.00	2.00	0.00
Start 2370.18 hold at 9113.09 MD									
9,200.00	91.05	179.97	6,772.94	-2,611.56	-329.20	2,611.39	0.00	0.00	0.00
9,300.00	91.05	179.97	6,771.11	-2,711.54	-329.14	2,711.37	0.00	0.00	0.00
9,400.00	91.05	179.97	6,769.27	-2,811.53	-329.09	2,811.35	0.00	0.00	0.00
9,500.00	91.05	179.97	6,767.43	-2,911.51	-329.03	2,911.34	0.00	0.00	0.00
9,600.00	91.05	179.97	6,765.59	-3,011.49	-328.97	3,011.32	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 3H
Company:	DEVON ENERGY	TVD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Site:	Boss Hogg 15 State Com	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	91.05	179.97	6,763.76	-3,111.48	-328.92	3,111.30	0.00	0.00	0.00
9,800.00	91.05	179.97	6,761.92	-3,211.46	-328.86	3,211.29	0.00	0.00	0.00
9,900.00	91.05	179.97	6,760.08	-3,311.44	-328.80	3,311.27	0.00	0.00	0.00
10,000.00	91.05	179.97	6,758.25	-3,411.43	-328.75	3,411.25	0.00	0.00	0.00
10,100.00	91.05	179.97	6,756.41	-3,511.41	-328.69	3,511.24	0.00	0.00	0.00
10,200.00	91.05	179.97	6,754.57	-3,611.39	-328.64	3,611.22	0.00	0.00	0.00
10,300.00	91.05	179.97	6,752.74	-3,711.37	-328.58	3,711.20	0.00	0.00	0.00
10,400.00	91.05	179.97	6,750.90	-3,811.36	-328.52	3,811.19	0.00	0.00	0.00
10,500.00	91.05	179.97	6,749.06	-3,911.34	-328.47	3,911.17	0.00	0.00	0.00
10,600.00	91.05	179.97	6,747.23	-4,011.32	-328.41	4,011.15	0.00	0.00	0.00
10,700.00	91.05	179.97	6,745.39	-4,111.31	-328.35	4,111.13	0.00	0.00	0.00
10,800.00	91.05	179.97	6,743.55	-4,211.29	-328.30	4,211.12	0.00	0.00	0.00
10,900.00	91.05	179.97	6,741.71	-4,311.27	-328.24	4,311.10	0.00	0.00	0.00
11,000.00	91.05	179.97	6,739.88	-4,411.26	-328.18	4,411.08	0.00	0.00	0.00
11,100.00	91.05	179.97	6,738.04	-4,511.24	-328.13	4,511.07	0.00	0.00	0.00
11,200.00	91.05	179.97	6,736.20	-4,611.22	-328.07	4,611.05	0.00	0.00	0.00
11,300.00	91.05	179.97	6,734.37	-4,711.21	-328.01	4,711.03	0.00	0.00	0.00
11,400.00	91.05	179.97	6,732.53	-4,811.19	-327.96	4,811.02	0.00	0.00	0.00
11,483.27	91.05	179.97	6,731.00	-4,894.44	-327.91	4,894.27	0.00	0.00	0.00
TD at 11483.27' MD - PBHL (BH15SC 3H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL (BH15SC 3H)	0.00	0.00	0.00	0.00	0.00	477,082.13	558,559.11	32° 18' 41.613 N	104° 16' 39.318 W
- plan misses target center by 6444.93usft at 6450.00usft MD (6444.81 TVD, -37.51 N, -12.40 E)									
- Point									
PBHL (BH15SC 3H)	0.00	0.00	6,731.00	-4,894.44	-327.91	472,187.68	558,231.20	32° 17' 53.180 N	104° 16' 43.168 W
- plan hits target center									
- Point									
LP (BH15SC 3H)	0.00	0.00	6,767.00	-560.17	-330.10	476,521.96	558,229.01	32° 18' 36.072 N	104° 16' 43.168 W
- plan misses target center by 137.98usft at 7177.00usft MD (6767.19 TVD, -601.93 N, -198.60 E)									
- Point									
Lat Tgt (BH15SC 3H)	0.00	0.00	6,775.00	-2,460.17	-329.14	474,621.96	558,229.97	32° 18' 17.270 N	104° 16' 43.168 W
- plan misses target center by 0.14usft at 9048.59usft MD (6775.00 TVD, -2460.17 N, -329.29 E)									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
650.00	650.00	13 3/8"	13-3/8	17-1/2
1,900.00	1,900.00	9 5/8"	9-5/8	12-1/4

Leam Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Project:	Eddy County, NM (NAD-83)	MD Reference:	GE 3306' + 25' @ 3331.00usft (Cactus 125)
Site:	Boss Hogg 15 State Corn	North Reference:	Grid
Well:	3H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft 1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
190.00	190.00	Rustler		0.01	
703.00	703.00	Salado		0.01	
1,769.00	1,769.00	Base of Salt		0.01	
1,777.00	1,777.00	Lamar		0.01	
1,911.00	1,911.00	Delaware		0.01	
2,558.00	2,558.00	Cherry Canyon		0.01	
3,633.00	3,633.00	Brushy Canyon		0.01	
5,197.00	5,197.00	1st Bone Spring LM		0.01	
6,131.00	6,131.00	1st Bone Spring SS		0.01	
6,374.30	6,373.00	2nd Bone Spring LM		0.01	
6,594.45	6,569.00	2nd Bone Spring SS		0.01	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,245.84	6,245.84	0.00	0.00	KOP: Start Build 11.00
7,061.84	6,766.71	-492.48	-162.78	EOC: Start 71.20 hold at 7061.84 MD
7,133.04	6,767.00	-560.09	-185.12	Start DLS 2.00 TFO -90.03
8,049.15	6,770.85	-1,460.74	-329.85	Start 999.44 hold at 8049.15 MD
9,048.59	6,775.00	-2,460.17	-329.29	Start DLS 2.00 TFO 0.00
9,113.09	6,774.54	-2,524.67	-329.25	Start 2370.18 hold at 9113.09 MD
11,483.27	6,731.00	-4,894.44	-327.91	TD at 11483.27' MD

MD	INC	AZI	TVD	NS	EW	DLS	BUILD	TURN	VSECT
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00
	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00
	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00
	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00
	700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00
	800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00
	900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00
	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00
	1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
	1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00
	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00
	1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00
	1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00
	1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00
	1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00
	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
	2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00
	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00
	2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00
	2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00
	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00
	2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00
	2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00
	2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00
	2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00
	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00
	3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00
	3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00
	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00
	3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00
	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00
	3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00
	3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00
	3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00
	3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00
	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00
	4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00
	4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00
	4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00
	4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00
	4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00

4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00
6245.84	0.00	0.00	6245.84	0.00	0.00	0.00	0.00	0.00	0.00
6250.00	0.46	198.29	6250.00	-0.02	-0.01	11.00	11.00	0.00	0.02
6300.00	5.96	198.29	6299.90	-2.67	-0.88	11.00	11.00	0.00	2.67
6350.00	11.46	198.29	6349.31	-9.86	-3.26	11.00	11.00	0.00	9.85
6400.00	16.96	198.29	6397.76	-21.50	-7.11	11.00	11.00	0.00	21.50
6450.00	22.46	198.29	6444.81	-37.51	-12.40	11.00	11.00	0.00	37.50
6500.00	27.96	198.29	6490.03	-57.72	-19.08	11.00	11.00	0.00	57.71
6550.00	33.46	198.29	6533.01	-81.95	-27.09	11.00	11.00	0.00	81.94
6600.00	38.96	198.29	6573.33	-109.98	-36.35	11.00	11.00	0.00	109.96
6650.00	44.46	198.29	6610.65	-141.56	-46.79	11.00	11.00	0.00	141.53
6700.00	49.96	198.29	6644.60	-176.38	-58.30	11.00	11.00	0.00	176.35
6750.00	55.46	198.29	6674.88	-214.14	-70.78	11.00	11.00	0.00	214.10
6800.00	60.96	198.29	6701.22	-254.47	-84.11	11.00	11.00	0.00	254.43
6850.00	66.46	198.29	6723.36	-297.02	-98.17	11.00	11.00	0.00	296.97
6900.00	71.96	198.29	6741.10	-341.38	-112.84	11.00	11.00	0.00	341.32
6950.00	77.46	198.29	6754.28	-387.16	-127.97	11.00	11.00	0.00	387.09
7000.00	82.96	198.29	6762.78	-433.92	-143.42	11.00	11.00	0.00	433.85
7050.00	88.46	198.29	6766.52	-481.24	-159.06	11.00	11.00	0.00	481.16
7061.84	89.76	198.29	6766.71	-492.48	-162.78	11.00	11.00	0.00	492.40
7100.00	89.76	198.29	6766.87	-528.72	-174.75	0.00	0.00	0.00	528.63
7133.04	89.76	198.29	6767.00	-560.09	-185.12	0.00	0.00	0.00	559.99
7200.00	89.76	196.95	6767.29	-623.90	-205.39	2.00	0.00	-2.00	623.80
7300.00	89.76	194.95	6767.71	-720.05	-232.87	2.00	0.00	-2.00	719.93
7400.00	89.76	192.95	6768.13	-817.09	-256.98	2.00	0.00	-2.00	816.96
7500.00	89.76	190.95	6768.55	-914.92	-277.68	2.00	0.00	-2.00	914.77
7600.00	89.76	188.95	6768.97	-1013.41	-294.96	2.00	0.00	-2.00	1013.25
7700.00	89.76	186.95	6769.39	-1112.44	-308.80	2.00	0.00	-2.00	1112.28
7800.00	89.76	184.95	6769.81	-1211.90	-319.16	2.00	0.00	-2.00	1211.73
7900.00	89.76	182.95	6770.23	-1311.65	-326.05	2.00	0.00	-2.00	1311.48
8000.00	89.76	180.95	6770.65	-1411.59	-329.46	2.00	0.00	-2.00	1411.42

8049.15	89.76	179.97	6770.85	-1460.74	-329.85	2.00	0.00	-2.00	1460.57
8100.00	89.76	179.97	6771.07	-1511.59	-329.82	0.00	0.00	0.00	1511.41
8200.00	89.76	179.97	6771.48	-1611.59	-329.76	0.00	0.00	0.00	1611.41
8300.00	89.76	179.97	6771.89	-1711.58	-329.71	0.00	0.00	0.00	1711.41
8400.00	89.76	179.97	6772.31	-1811.58	-329.65	0.00	0.00	0.00	1811.41
8500.00	89.76	179.97	6772.72	-1911.58	-329.59	0.00	0.00	0.00	1911.41
8600.00	89.76	179.97	6773.14	-2011.58	-329.54	0.00	0.00	0.00	2011.41
8700.00	89.76	179.97	6773.55	-2111.58	-329.48	0.00	0.00	0.00	2111.41
8800.00	89.76	179.97	6773.97	-2211.58	-329.43	0.00	0.00	0.00	2211.41
8900.00	89.76	179.97	6774.38	-2311.58	-329.37	0.00	0.00	0.00	2311.41
9000.00	89.76	179.97	6774.80	-2411.58	-329.31	0.00	0.00	0.00	2411.41
9048.59	89.76	179.97	6775.00	-2460.17	-329.29	0.00	0.00	0.00	2459.99
9100.00	90.79	179.97	6774.75	-2511.58	-329.26	2.00	2.00	0.00	2511.40
9113.09	91.05	179.97	6774.54	-2524.67	-329.25	2.00	2.00	0.00	2524.49
9200.00	91.05	179.97	6772.94	-2611.56	-329.20	0.00	0.00	0.00	2611.39
9300.00	91.05	179.97	6771.11	-2711.54	-329.14	0.00	0.00	0.00	2711.37
9400.00	91.05	179.97	6769.27	-2811.53	-329.09	0.00	0.00	0.00	2811.35
9500.00	91.05	179.97	6767.43	-2911.51	-329.03	0.00	0.00	0.00	2911.34
9600.00	91.05	179.97	6765.59	-3011.49	-328.97	0.00	0.00	0.00	3011.32
9700.00	91.05	179.97	6763.76	-3111.48	-328.92	0.00	0.00	0.00	3111.30
9800.00	91.05	179.97	6761.92	-3211.46	-328.86	0.00	0.00	0.00	3211.29
9900.00	91.05	179.97	6760.08	-3311.44	-328.80	0.00	0.00	0.00	3311.27
10000.00	91.05	179.97	6758.25	-3411.43	-328.75	0.00	0.00	0.00	3411.25
10100.00	91.05	179.97	6756.41	-3511.41	-328.69	0.00	0.00	0.00	3511.24
10200.00	91.05	179.97	6754.57	-3611.39	-328.64	0.00	0.00	0.00	3611.22
10300.00	91.05	179.97	6752.74	-3711.37	-328.58	0.00	0.00	0.00	3711.20
10400.00	91.05	179.97	6750.90	-3811.36	-328.52	0.00	0.00	0.00	3811.19
10500.00	91.05	179.97	6749.06	-3911.34	-328.47	0.00	0.00	0.00	3911.17
10600.00	91.05	179.97	6747.23	-4011.32	-328.41	0.00	0.00	0.00	4011.15
10700.00	91.05	179.97	6745.39	-4111.31	-328.35	0.00	0.00	0.00	4111.13
10800.00	91.05	179.97	6743.55	-4211.29	-328.30	0.00	0.00	0.00	4211.12
10900.00	91.05	179.97	6741.71	-4311.27	-328.24	0.00	0.00	0.00	4311.10
11000.00	91.05	179.97	6739.88	-4411.26	-328.18	0.00	0.00	0.00	4411.08
11100.00	91.05	179.97	6738.04	-4511.24	-328.13	0.00	0.00	0.00	4511.07
11200.00	91.05	179.97	6736.20	-4611.22	-328.07	0.00	0.00	0.00	4611.05
11300.00	91.05	179.97	6734.37	-4711.21	-328.01	0.00	0.00	0.00	4711.03
11400.00	91.05	179.97	6732.53	-4811.19	-327.96	0.00	0.00	0.00	4811.02
11483.27	91.05	179.97	6731.00	-4894.44	-327.91	0.00	0.00	0.00	4894.27