

XTO Energy

San Juan Basin (NAD 83)

Ropco 16-1H

Ropco 16-1H

Ropco 16-1H

Plan: Permitted wellbore -- Ropco 16-1H

Standard Planning Report

04 January, 2013

Oil Conservation Division
Case No. 13
Exhibit No. 13

XTO Energy Inc.
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ropco 16-1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Project	San Juan Basin (NAD 83), San Juan Co., NM.		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Ropco 16-1H, T29N, R14W		
Site Position:		Northing:	2,085,863.71 ft
From:	Lat/Long	Easting:	2,583,585.34 ft
Position Uncertainty:	0.00 ft	Slot Radius:	in
		Latitude:	36° 43' 52.75 N
		Longitude:	108° 18' 33.88 W
		Grid Convergence:	-0.28 °

Well	Ropco 16-1H, Horizontal Mancos		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	5,217.00 ft
		Latitude:	36° 43' 52.75 N
		Longitude:	108° 18' 33.88 W
		Ground Level:	5,217.00 ft

Wellbore	Ropco 16-1H		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	12/31/2009	10.29
			Dip Angle
			(°)
			Field Strength
			(nT)
			63.40
			50,838

Design	Permitted wellbore -- Ropco 16-1H		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			259.43

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,185.00	0.00	0.00	4,185.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,085.07	90.00	215.00	4,758.00	-489.37	-328.66	10.00	10.00	0.00	215.00	
5,185.07	90.00	215.00	4,758.00	-551.29	-388.02	0.00	0.00	0.00	0.00	
6,559.39	90.00	269.97	4,758.00	-1,162.10	-1,558.69	4.00	0.00	4.00	90.00	Proposed BHL -- Rop
11,242.71	90.00	269.97	4,758.00	-1,164.31	-6,242.01	0.00	0.00	0.00	0.00	Proposed BHL -- Rop

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Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore - Ropco 16-1H		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	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	0.00
200.00	0.00	0.00	200.00	0.00	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	0.00
400.00	0.00	0.00	400.00	0.00	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	0.00
9 5/8"									
600.00	0.00	0.00	600.00	0.00	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	0.00
800.00	0.00	0.00	800.00	0.00	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	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,245.00	0.00	0.00	2,245.00	0.00	0.00	0.00	0.00	0.00	0.00
Cliffhouse SS									
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,197.00	0.00	0.00	3,197.00	0.00	0.00	0.00	0.00	0.00	0.00
Point Lookout SS									
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,520.00	0.00	0.00	3,520.00	0.00	0.00	0.00	0.00	0.00	0.00
Mancos Shale									
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,185.00	0.00	0.00	4,185.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	1.50	215.00	4,200.00	-0.16	-0.11	0.14	10.00	10.00	0.00
4,250.00	6.50	215.00	4,249.86	-3.02	-2.11	2.63	10.00	10.00	0.00
4,300.00	11.50	215.00	4,299.23	-9.42	-6.60	8.21	10.00	10.00	0.00
4,350.00	16.50	215.00	4,347.73	-19.33	-13.53	16.85	10.00	10.00	0.00

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Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore -- Ropco 16-1H		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,400.00	21.50	215.00	4,394.99	-32.66	-22.87	28.47	10.00	10.00	0.00
4,432.64	24.76	215.00	4,425.00	-43.16	-30.22	37.62	10.00	10.00	0.00
Upper Gallup									
4,450.00	26.50	215.00	4,440.65	-49.31	-34.53	42.98	10.00	10.00	0.00
4,500.00	31.50	215.00	4,484.37	-69.16	-48.42	60.28	10.00	10.00	0.00
4,550.00	36.50	215.00	4,525.81	-92.05	-64.46	80.24	10.00	10.00	0.00
4,600.00	41.50	215.00	4,564.66	-117.82	-82.50	102.70	10.00	10.00	0.00
4,650.00	46.50	215.00	4,600.62	-146.26	-102.41	127.49	10.00	10.00	0.00
4,700.00	51.50	215.00	4,633.41	-177.16	-124.05	154.43	10.00	10.00	0.00
4,750.00	56.50	215.00	4,662.79	-210.28	-147.24	183.30	10.00	10.00	0.00
4,800.00	61.50	215.00	4,688.54	-245.38	-171.81	213.89	10.00	10.00	0.00
4,850.00	66.50	215.00	4,710.46	-282.17	-197.58	245.97	10.00	10.00	0.00
4,900.00	71.49	215.00	4,728.37	-320.40	-224.35	279.29	10.00	10.00	0.00
4,950.00	76.49	215.00	4,742.15	-359.76	-251.90	313.60	10.00	10.00	0.00
4,977.86	79.28	215.00	4,748.00	-382.07	-267.53	333.05	10.00	10.00	0.00
Gallup Marker 5									
5,000.00	81.49	215.00	4,751.70	-399.95	-280.05	348.63	10.00	10.00	0.00
5,050.00	86.49	215.00	4,756.93	-440.67	-308.56	384.13	10.00	10.00	0.00
5,085.07	90.00	215.00	4,758.00	-469.37	-328.66	409.15	10.00	10.00	0.00
5,100.00	90.00	215.00	4,758.00	-481.61	-337.22	419.82	0.00	0.00	0.00
7"									
5,185.07	90.00	215.00	4,758.00	-551.29	-386.02	480.56	0.00	0.00	0.00
5,200.00	90.00	215.60	4,758.00	-563.48	-394.65	491.28	4.00	0.00	4.00
5,300.00	90.00	219.60	4,758.00	-642.69	-455.64	565.77	4.00	0.00	4.00
5,400.00	90.00	223.60	4,758.00	-717.46	-522.02	644.73	4.00	0.00	4.00
5,500.00	90.00	227.60	4,758.00	-787.42	-593.45	727.77	4.00	0.00	4.00
5,600.00	90.00	231.60	4,758.00	-852.22	-669.59	814.50	4.00	0.00	4.00
5,700.00	90.00	235.60	4,758.00	-911.55	-750.06	904.48	4.00	0.00	4.00
5,800.00	90.00	239.60	4,758.00	-965.13	-834.47	997.29	4.00	0.00	4.00
5,900.00	90.00	243.60	4,758.00	-1,012.68	-922.41	1,092.46	4.00	0.00	4.00
6,000.00	90.00	247.60	4,758.00	-1,053.99	-1,013.46	1,189.54	4.00	0.00	4.00
6,100.00	90.00	251.60	4,758.00	-1,088.85	-1,107.17	1,288.05	4.00	0.00	4.00
6,200.00	90.00	255.60	4,758.00	-1,117.08	-1,203.08	1,387.51	4.00	0.00	4.00
6,300.00	90.00	259.60	4,758.00	-1,138.55	-1,300.73	1,487.44	4.00	0.00	4.00
6,400.00	90.00	263.60	4,758.00	-1,153.16	-1,399.63	1,587.35	4.00	0.00	4.00
6,500.00	90.00	267.60	4,758.00	-1,160.84	-1,499.32	1,686.75	4.00	0.00	4.00
6,559.39	90.00	269.97	4,758.00	-1,162.10	-1,558.69	1,745.35	4.00	0.00	4.00
6,600.00	90.00	269.97	4,758.00	-1,162.12	-1,599.30	1,785.27	0.00	0.00	0.00
6,700.00	90.00	269.97	4,758.00	-1,162.16	-1,699.30	1,883.59	0.00	0.00	0.00
6,800.00	90.00	269.97	4,758.00	-1,162.21	-1,799.30	1,981.90	0.00	0.00	0.00
6,900.00	90.00	269.97	4,758.00	-1,162.26	-1,899.30	2,080.21	0.00	0.00	0.00
7,000.00	90.00	269.97	4,758.00	-1,162.30	-1,999.30	2,178.53	0.00	0.00	0.00
7,100.00	90.00	269.97	4,758.00	-1,162.35	-2,099.30	2,276.84	0.00	0.00	0.00
7,200.00	90.00	269.97	4,758.00	-1,162.40	-2,199.30	2,375.15	0.00	0.00	0.00
7,300.00	90.00	269.97	4,758.00	-1,162.45	-2,299.30	2,473.47	0.00	0.00	0.00
7,400.00	90.00	269.97	4,758.00	-1,162.49	-2,399.30	2,571.78	0.00	0.00	0.00
7,500.00	90.00	269.97	4,758.00	-1,162.54	-2,499.30	2,670.09	0.00	0.00	0.00
7,600.00	90.00	269.97	4,758.00	-1,162.59	-2,599.30	2,768.41	0.00	0.00	0.00
7,700.00	90.00	269.97	4,758.00	-1,162.63	-2,699.30	2,866.72	0.00	0.00	0.00
7,800.00	90.00	269.97	4,758.00	-1,162.68	-2,799.30	2,965.03	0.00	0.00	0.00
7,900.00	90.00	269.97	4,758.00	-1,162.73	-2,899.30	3,063.35	0.00	0.00	0.00
8,000.00	90.00	269.97	4,758.00	-1,162.78	-2,999.30	3,161.66	0.00	0.00	0.00
8,100.00	90.00	269.97	4,758.00	-1,162.82	-3,099.30	3,259.97	0.00	0.00	0.00

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,200.00	90.00	269.97	4,758.00	-1,162.87	-3,199.30	3,358.28	0.00	0.00	0.00
8,300.00	90.00	269.97	4,758.00	-1,162.92	-3,299.30	3,456.60	0.00	0.00	0.00
8,400.00	90.00	269.97	4,758.00	-1,162.96	-3,399.30	3,554.91	0.00	0.00	0.00
8,500.00	90.00	269.97	4,758.00	-1,163.01	-3,499.30	3,653.22	0.00	0.00	0.00
8,600.00	90.00	269.97	4,758.00	-1,163.06	-3,599.30	3,751.54	0.00	0.00	0.00
8,700.00	90.00	269.97	4,758.00	-1,163.11	-3,699.30	3,849.85	0.00	0.00	0.00
8,800.00	90.00	269.97	4,758.00	-1,163.15	-3,799.30	3,948.16	0.00	0.00	0.00
8,900.00	90.00	269.97	4,758.00	-1,163.20	-3,899.30	4,046.48	0.00	0.00	0.00
9,000.00	90.00	269.97	4,758.00	-1,163.25	-3,999.30	4,144.79	0.00	0.00	0.00
9,100.00	90.00	269.97	4,758.00	-1,163.29	-4,099.30	4,243.10	0.00	0.00	0.00
9,200.00	90.00	269.97	4,758.00	-1,163.34	-4,199.30	4,341.42	0.00	0.00	0.00
9,300.00	90.00	269.97	4,758.00	-1,163.39	-4,299.30	4,439.73	0.00	0.00	0.00
9,400.00	90.00	269.97	4,758.00	-1,163.44	-4,399.30	4,538.04	0.00	0.00	0.00
9,500.00	90.00	269.97	4,758.00	-1,163.48	-4,499.30	4,636.36	0.00	0.00	0.00
9,600.00	90.00	269.97	4,758.00	-1,163.53	-4,599.30	4,734.67	0.00	0.00	0.00
9,700.00	90.00	269.97	4,758.00	-1,163.58	-4,699.30	4,832.98	0.00	0.00	0.00
9,800.00	90.00	269.97	4,758.00	-1,163.63	-4,799.30	4,931.29	0.00	0.00	0.00
9,900.00	90.00	269.97	4,758.00	-1,163.67	-4,899.30	5,029.61	0.00	0.00	0.00
10,000.00	90.00	269.97	4,758.00	-1,163.72	-4,999.30	5,127.92	0.00	0.00	0.00
10,100.00	90.00	269.97	4,758.00	-1,163.77	-5,099.30	5,226.23	0.00	0.00	0.00
10,200.00	90.00	269.97	4,758.00	-1,163.81	-5,199.30	5,324.55	0.00	0.00	0.00
10,300.00	90.00	269.97	4,758.00	-1,163.86	-5,299.30	5,422.86	0.00	0.00	0.00
10,400.00	90.00	269.97	4,758.00	-1,163.91	-5,399.30	5,521.17	0.00	0.00	0.00
10,500.00	90.00	269.97	4,758.00	-1,163.96	-5,499.30	5,619.49	0.00	0.00	0.00
10,600.00	90.00	269.97	4,758.00	-1,164.00	-5,599.30	5,717.80	0.00	0.00	0.00
10,700.00	90.00	269.97	4,758.00	-1,164.05	-5,699.30	5,816.11	0.00	0.00	0.00
10,800.00	90.00	269.97	4,758.00	-1,164.10	-5,799.30	5,914.43	0.00	0.00	0.00
10,900.00	90.00	269.97	4,758.00	-1,164.14	-5,899.30	6,012.74	0.00	0.00	0.00
11,000.00	90.00	269.97	4,758.00	-1,164.19	-5,999.30	6,111.05	0.00	0.00	0.00
11,100.00	90.00	269.97	4,758.00	-1,164.24	-6,099.30	6,209.37	0.00	0.00	0.00
11,200.00	90.00	269.97	4,758.00	-1,164.29	-6,199.30	6,307.68	0.00	0.00	0.00
11,242.00	90.00	269.97	4,758.00	-1,164.31	-6,241.30	6,348.97	0.00	0.00	0.00
4 1/2"									
11,242.71	90.00	269.97	4,758.00	-1,164.31	-6,242.01	6,349.66	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Proposed BHL -- Ropco	0.00	0.00	4,758.00	-1,164.31	-6,242.01	2,084,730.45	2,577,337.64	36° 43' 41.23 N	108° 19' 50.56 W
- plan hits target									
- Point									

XTO Energy Inc.
Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Ropco 16-1H
Company:	XTO Energy	TVD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Project:	San Juan Basin (NAD 83)	MD Reference:	Rig KB @ 5237.00ft (Unknown Rig)
Site:	Ropco 16-1H	North Reference:	True
Well:	Ropco 16-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Ropco 16-1H		
Design:	Permitted wellbore - Ropco 16-1H		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
500.00	500.00	9 5/8"	9.625	12.250	
5,100.00	4,758.00	7"	7.000	8.750	
11,242.00	4,758.00	4 1/2"	4.500	6.125	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,245.00	2,245.00	Cliffhouse SS		0.00		
3,197.00	3,197.00	Point Lookout SS		0.00		
3,520.00	3,520.00	Mancos Shale		0.00		
4,432.64	4,425.00	Upper Gallup		0.00		
4,977.86	4,748.00	Gallup Marker 5		0.00		



Well Name: Ropco 16-1H

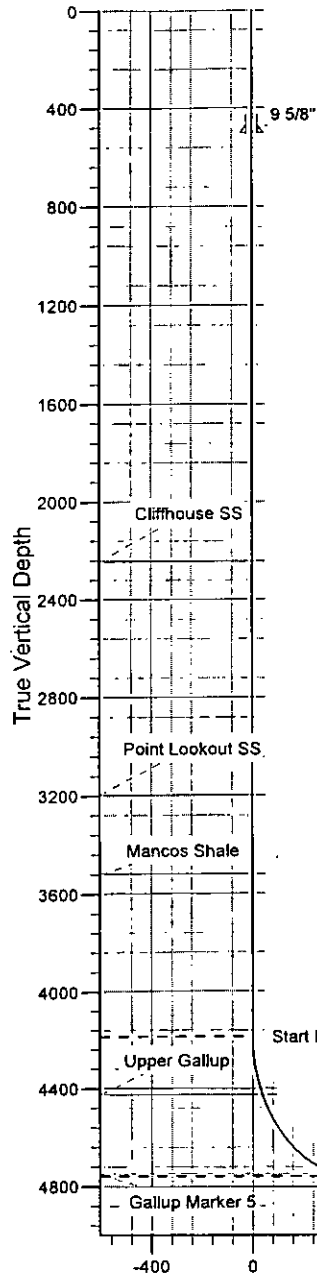
San Juan Division
Drilling Department

Calculation Method: Minimum Curvature
Geodetic Datum: North American Datum 1983
Lat: 36° 43' 52.75 N
Long: 108° 18' 33.88 W



Azimuths to True North
Magnetic North: 10.29°

Magnetic Field
Strength: 50838.4snT
Dip Angle: 63.40°
Date: 12/31/2009
Model: IGRF200510

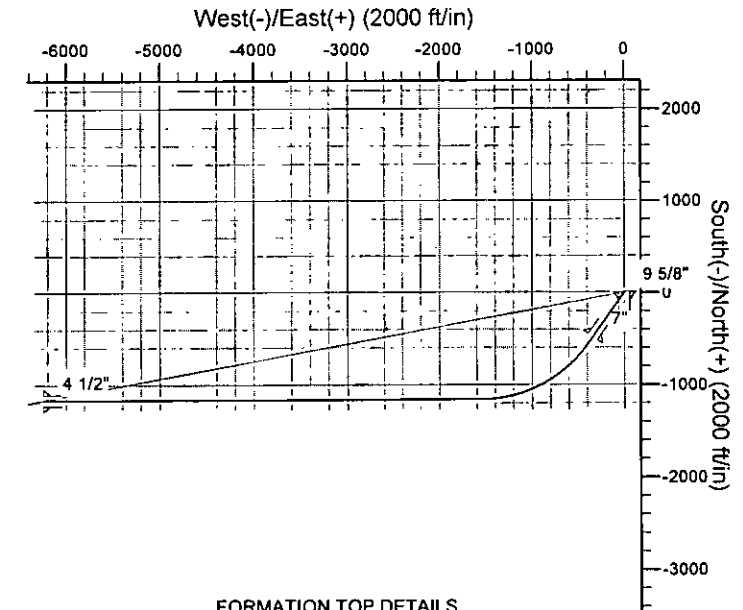
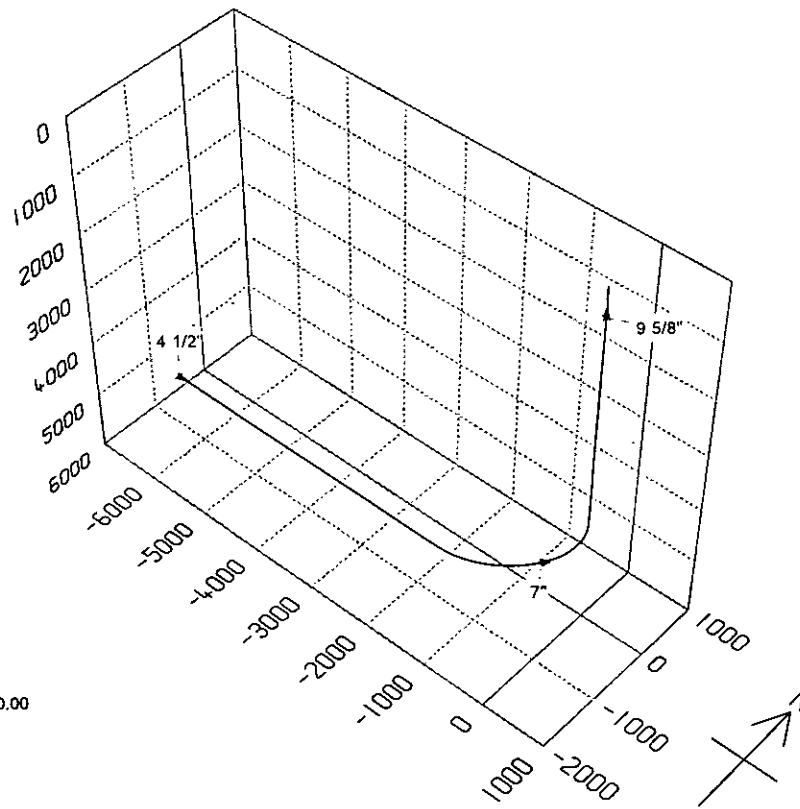


CASING DETAILS

TVD	MD	Name	Size
500.00	500.00	9 5/8"	9.625
4758.00	5100.00	7"	7.000
4758.00	1242.00	4 1/2"	4.500

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4185.00	0.00	0.00	4185.00	0.00	0.00	0.00	0.00	0.00	
3	5085.07	90.00	215.00	4758.00	-469.37	-328.66	10.00	215.00	409.15	
4	5185.07	90.00	215.00	4758.00	-551.29	-386.02	0.00	0.00	480.56	
5	6559.39	90.00	269.97	4758.00	-1162.10	-1558.69	4.00	90.00	1745.35	Proposed BHL -- Ropco 16-1H
6	11242.71	90.00	269.97	4758.00	-1164.31	-6242.01	0.00	0.00	6349.66	Proposed BHL -- Ropco 16-1H



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2245.00	2245.00	Cliffhouse SS
3197.00	3197.00	Point Lookout SS
3520.00	3520.00	Mancos Shale
4425.00	4432.64	Upper Gallup
4748.00	4977.86	Gallup Marker 5

Vertical Section at 259.43°

4 1/2"

TD at 11242.71