

A GYRO TECHNOLOGIES INC. COMPANY

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-41148

April 8, 2014

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 24 2014

RECEIVED

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: David Cook

Re: **Spud 16 State No 010H**

Please find enclosed a copy of the survey from 0' to 374' ran on the above referenced well.

If I can be of any further service, please do not hesitate to call me at 800-606-4976.

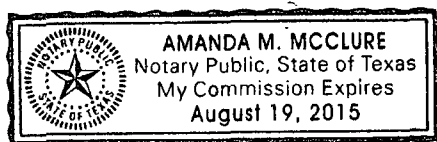
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 8 day of April, A.D., 2014, by Keith Havelka.

Amanda McClure
Notary Public, State of Texas





Company: Devon Energy
Lease/Well: Spud 16 State/No 010H
Location: S16 T23S R29E
Rig Name: H&P 214
State/County: New Mexico/Eddy
Latitude: 32.30, Longitude: -103.98
GRID North is 0.19 Degrees East of True North
VS-Azi: 270.00 Degrees



Depth Reference : R.K.B. = 25 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

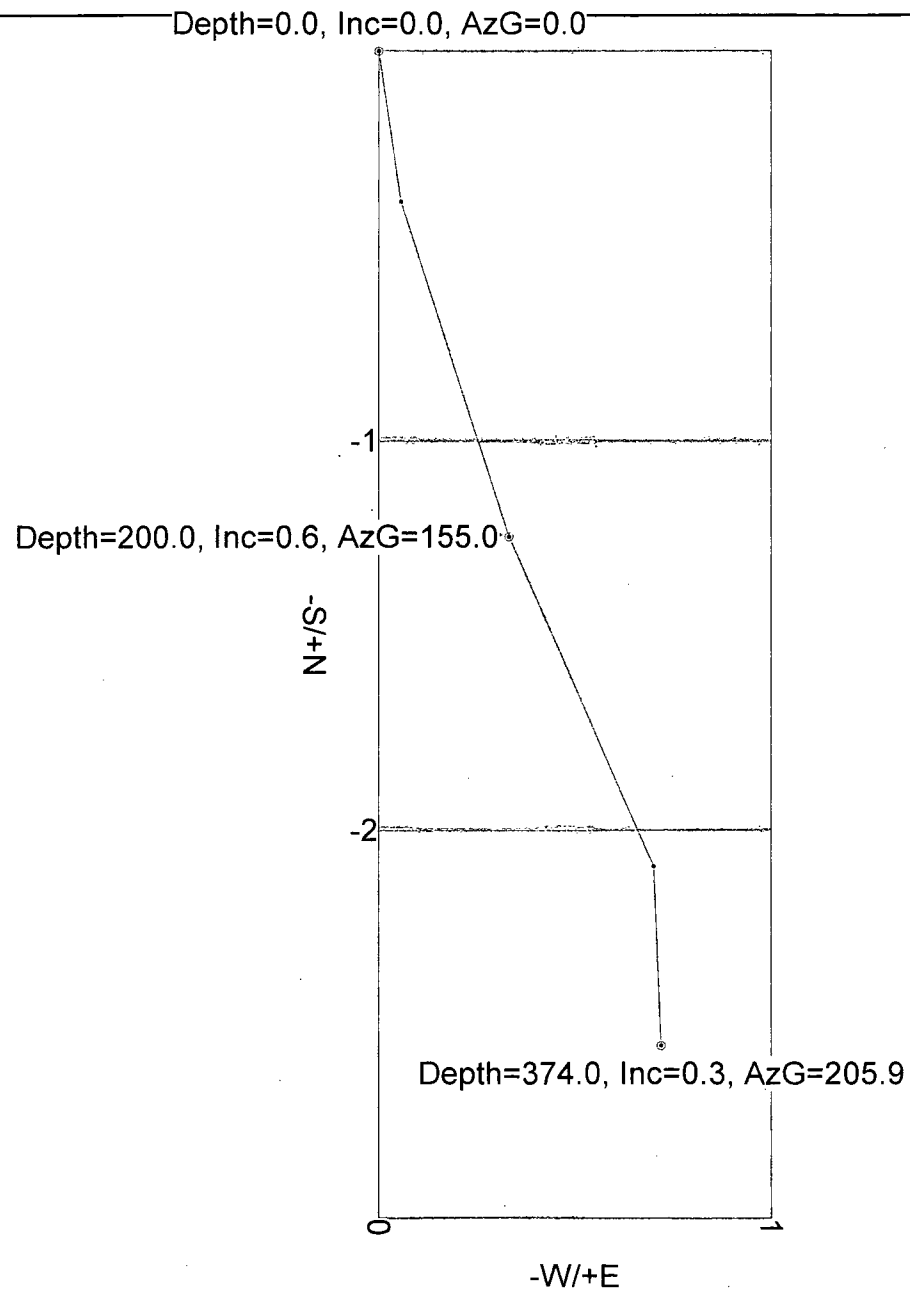
Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 4/8/2014 / 14:47

VES Survey International
Midland, TX
432-563-5444
Surveyor: Andrew Askew
Spud 16 State No 010H / API 30-015-41148

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.45	171.81	100.00	-0.39	0.06	-0.06	0.39	171.81	0.45
200.00	0.60	154.96	199.99	-1.25	0.33	-0.33	1.29	165.08	0.21
300.00	0.46	158.30	299.99	-2.09	0.70	-0.70	2.21	161.46	0.14
374.00	0.32	205.91	373.99	-2.56	0.72	-0.72	2.66	164.25	0.46



VES Survey International
Midland, TX
432-563-5444
Surveyor: Andrew Askew
Spud 16 State No 010H / API 30-015-41148



VES Survey Date: 03/30/2014



Weatherford®

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: April 22, 2014

Attention: Art Alarcon

Re: Devon Energy
Well: Spud 16 State 10H
Eddy County, New Mexico

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 24 2014

RECEIVED

Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

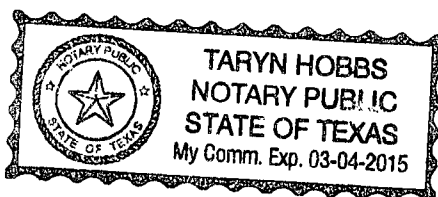
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
John Josserand	10H	495 MD	3/31/2014	Measurement
MWD Supervisor		12684 MD	4/21/2014	While Drilling

A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Daniel Rodriguez
MWD Coordinator

On this, the 28th day of April, 2014, before me a notary public, the undersigned officer, personally appeared Daniel Rodriguez, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public

5D Survey Report**Devon Energy**

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Spud 16 State 10,11,12H Pad*
Well Name: *Spud 16 State 10H*
Survey: *Wft MWD Svy*

21 April 2014



Spud 16 State 10H

Field Name Eddy Co, NM (Nad 83 NME)	Map Units : US ft Company Name : Devon Energy Vertical Reference Datum (VRD) : Mean Sea Level Projected Coordinate System : NAD83 / New Mexico East (ftUS) Comment :	
Site Name Spud 16 State 10,11,12H Pad	Units : US ft Position North Reference : Grid Northing : 474347.08 US ft Easting : 649482.55 US ft Elevation above Mean Sea Level: 2963.00 US ft Comment :	Convergence Angle : 0.19 Latitude : 32° 18' 12.84" Longitude : -103° 58' 59.91"
Slot Name Spud 16 State 10H	Position (Offsets relative to Site Centre) +N / -S : 0.00 US ft Northing : 474347.08 US ft Latitude : 32° 18' 12.84" +E / -W : 0.00 US ft Easting : 649482.55 US ft Longitude : -103° 58' 59.91" Elevation above Mean Sea Level : 2963.00 US ft Comment :	
Well Name Spud 16 State 10H	Type : Main well UWI : Rig Height Well TVD Reference : 25.00 US ft Comment : Relative to Mean Sea Level: 2988.00 US ft Closure Distance : 4494.81 US ft Closure Azimuth : 286.188° Vertical Section (Position of Origin Relative to Slot) +N / -S : 0.00 US ft +E / -W : 0.00 US ft Az : 270.00°	

Target Set

Name : Spud 16 State 10H **Number of Targets :** 2

Comment :

Target Name: LP Tgt Shape: Cuboid	Position (Relative to Slot centre) +N / -S : 976.63 US ft Northing : 475323.71 US ft Latitude : 32° 18' 22.50" +E / -W : 277.57 US ft Easting : 649760.12 US ft Longitude : -103° 58' 56.64" TVD (Well TVD Reference) : 7770.00 US ft Orientation Azimuth : 0.00° Inclination : 0.00° Dimensions Length : 20.00 US ft Breadth : 20.00 US ft Height : 20.00 US ft
Target Name: PBHL Shape: Cuboid	Position (Relative to Slot centre) +N / -S : 1240.25 US ft Northing : 475587.33 US ft Latitude : 32° 18' 25.25" +E / -W : -4317.44 US ft Easting : 645165.11 US ft Longitude : -103° 59' 50.17" TVD (Well TVD Reference) : 7725.00 US ft Orientation Azimuth : 0.00° Inclination : 0.00° Dimensions Length : 20.00 US ft Breadth : 20.00 US ft Height : 20.00 US ft

5D Survey Report

Survey Name: Wft MWD Svy			
Date : 03/Apr/2014	Survey Tool : MWD	Comment :	Company :
Magnetic Model			
Model Name: BGGM	Date: 20/Mar/2014	Field Strength: 48343.5 nT	Declination: 7.56° Dip: 60.11°
Tie Point			
MD: 374	Inclination: 0.32	Azimuth: 205.91	TVD: 373.989 North Offset: -2.56099 East Offset: 0.723066

Casing Points (Relative to Slot centre, TVD relative to Well TVD Reference)									
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name	
3007.27	5.48	42.21	2999.00	142.38	129.49	474489.46	649612.04	9 5/8 in	

Well path created using minimum curvature

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	PLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
374.00	0.32	205.91	373.99	-2.56	0.72	-0.72	0.00	474344.52	649483.27	Tie On VES
495.00	0.40	194.30	494.99	-3.27	0.47	-0.47	0.09	474343.81	649483.02	First Wft Svy
525.00	0.29	179.02	524.99	-3.45	0.45	-0.45	0.47	474343.63	649483.00	
619.00	1.01	48.41	618.98	-3.14	1.07	-1.07	1.30	474343.94	649483.62	
711.00	2.52	37.55	710.94	-1.00	2.91	-2.91	1.67	474346.08	649485.46	
802.00	4.34	35.23	801.77	3.40	6.12	-6.12	2.01	474350.48	649488.67	
894.00	4.96	37.12	893.47	9.42	10.52	-10.52	0.69	474356.50	649493.07	
987.00	4.80	38.97	986.13	15.65	15.40	-15.40	0.24	474362.73	649497.95	
1079.00	4.14	39.73	1077.85	21.19	19.94	-19.94	0.72	474368.27	649502.49	
1174.00	4.67	36.22	1172.57	26.95	24.42	-24.42	0.63	474374.03	649506.97	
1268.00	5.88	35.58	1266.17	33.95	29.48	-29.48	1.29	474381.03	649512.03	
1363.00	6.57	44.84	1360.61	41.77	36.14	-36.14	1.28	474388.85	649518.69	
1457.00	6.59	49.97	1453.99	49.05	44.07	-44.07	0.63	474396.13	649526.62	
1552.00	5.19	39.25	1548.49	55.88	50.96	-50.96	1.87	474402.96	649533.51	
1647.00	4.37	31.98	1643.16	62.28	55.59	-55.59	1.07	474409.36	649538.14	
1741.00	4.81	37.91	1736.86	68.43	59.91	-59.91	0.69	474415.51	649542.46	
1836.00	4.92	42.14	1831.52	74.59	65.09	-65.09	0.39	474421.67	649547.64	
1931.00	4.29	43.37	1926.21	80.19	70.27	-70.27	0.67	474427.27	649552.82	
2025.00	3.79	43.41	2019.98	85.01	74.82	-74.82	0.53	474432.09	649557.37	
2119.00	4.02	40.86	2113.76	89.76	79.11	-79.11	0.31	474436.84	649561.66	
2214.00	4.92	40.97	2208.47	95.35	83.96	-83.96	0.95	474442.43	649566.51	
2309.00	5.01	46.24	2303.11	101.30	89.62	-89.62	0.49	474448.38	649572.17	
2404.00	4.87	44.62	2397.76	107.04	95.45	-95.45	0.21	474454.12	649578.00	
2498.00	4.58	42.33	2491.44	112.65	100.78	-100.78	0.37	474459.73	649583.33	
2593.00	3.99	49.89	2586.17	117.58	105.86	-105.86	0.86	474464.66	649588.41	
2687.00	3.86	48.16	2679.95	121.80	110.72	-110.72	0.19	474468.88	649593.27	
2782.00	4.69	42.91	2774.69	126.78	115.75	-115.75	0.97	474473.86	649598.30	
2876.00	5.52	41.14	2868.31	133.00	121.34	-121.34	0.90	474480.08	649603.89	
2927.00	5.37	40.20	2919.08	136.67	124.49	-124.49	0.34	474483.75	649607.04	
3007.27	5.48	42.21	2999.00	142.38	129.49	-129.49	0.27	474489.46	649612.04	9 5/8 in
3130.00	5.66	45.12	3121.15	150.99	137.72	-137.72	0.27	474498.07	649620.27	
3225.00	7.29	41.19	3215.54	158.83	145.01	-145.01	1.78	474505.91	649627.56	
3320.00	8.10	35.19	3309.68	168.83	152.83	-152.83	1.20	474515.91	649635.38	
3415.00	9.34	36.73	3403.58	180.48	161.30	-161.30	1.33	474527.56	649643.85	
3509.00	10.82	36.87	3496.13	193.66	171.16	-171.16	1.57	474540.74	649653.71	
3604.00	10.99	34.84	3589.41	208.22	181.68	-181.68	0.44	474555.30	649664.23	
3698.00	10.10	41.26	3681.83	221.77	192.24	-192.24	1.57	474568.85	649674.79	
3793.00	9.69	42.21	3775.42	233.96	203.10	-203.10	0.46	474581.04	649685.65	
3887.00	8.99	40.57	3868.17	245.39	213.19	-213.19	0.80	474592.47	649695.74	
3982.00	9.64	37.77	3961.92	257.32	222.89	-222.89	0.83	474604.40	649705.44	
4077.00	10.69	40.10	4055.42	270.35	233.44	-233.44	1.19	474617.43	649715.99	
4171.00	10.92	40.28	4147.76	283.81	244.81	-244.81	0.25	474630.89	649727.36	
4266.00	10.80	40.13	4241.06	297.48	256.37	-256.37	0.13	474644.56	649738.92	

SD Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	
4360.00	10.39	38.68	4333.45	310.83	267.34	-267.34	0.52	474657.91	649749.89	
4454.00	9.99	38.69	4425.97	323.81	277.73	-277.73	0.43	474670.89	649760.28	
4549.00	10.20	46.09	4519.50	336.08	288.95	-288.95	1.38	474683.16	649771.50	
4644.00	9.94	46.93	4613.04	347.51	301.00	-301.00	0.31	474694.59	649783.55	
4738.00	9.79	46.39	4705.65	358.56	312.71	-312.71	0.19	474705.64	649795.26	
4833.00	9.78	46.29	4799.27	369.71	324.39	-324.39	0.02	474716.79	649806.94	
4927.00	9.65	46.15	4891.92	380.68	335.84	-335.84	0.14	474727.76	649818.39	
5022.00	9.37	44.96	4985.61	391.67	347.05	-347.05	0.36	474738.75	649829.60	
5116.00	8.49	44.29	5078.47	402.05	357.30	-357.30	0.94	474749.13	649839.85	
5211.00	9.54	43.15	5172.30	412.82	367.58	-367.58	1.12	474759.90	649850.13	
5306.00	9.11	42.21	5266.04	424.13	378.02	-378.02	0.48	474771.21	649860.57	
5401.00	9.68	42.43	5359.77	435.60	388.46	-388.46	0.60	474782.68	649871.01	
5495.00	8.83	40.32	5452.55	446.93	398.46	-398.46	0.97	474794.01	649881.01	
5590.00	9.77	41.81	5546.30	458.50	408.55	-408.55	1.02	474805.58	649891.10	
5684.00	9.67	42.73	5638.95	470.24	419.23	-419.23	0.20	474817.32	649901.78	
5779.00	8.46	39.88	5732.76	481.47	429.12	-429.12	1.36	474828.55	649911.67	
5873.00	8.90	33.91	5825.68	492.81	437.61	-437.61	1.07	474839.89	649920.16	
5968.00	9.95	39.06	5919.40	505.28	446.88	-446.88	1.42	474852.36	649929.43	
6063.00	9.79	39.12	6013.00	517.92	457.15	-457.15	0.17	474865.00	649939.70	
6157.00	9.56	39.90	6105.66	530.11	467.20	-467.20	0.28	474877.19	649949.75	
6252.00	8.88	39.57	6199.43	541.81	476.93	-476.93	0.72	474888.89	649959.48	
6346.00	9.38	40.47	6292.24	553.23	486.53	-486.53	0.55	474900.31	649969.08	
6440.00	10.46	43.67	6384.83	565.23	497.39	-497.39	1.29	474912.31	649979.94	
6535.00	9.49	43.07	6478.40	577.19	508.69	-508.69	1.03	474924.27	649991.24	
6630.00	8.60	48.05	6572.22	587.66	519.33	-519.33	1.25	474934.74	650001.88	
6724.00	8.99	46.47	6665.11	597.42	529.88	-529.88	0.49	474944.50	650012.43	
6819.00	9.65	42.02	6758.86	608.45	540.59	-540.59	1.03	474955.53	650023.14	
6914.00	9.87	38.02	6852.48	620.78	550.93	-550.93	0.75	474967.86	650033.48	
7008.00	9.49	35.90	6945.14	633.40	560.44	-560.44	0.55	474980.48	650042.99	
7103.00	8.16	29.94	7039.02	645.59	568.40	-568.40	1.70	474992.67	650050.95	
7154.00	6.81	28.04	7089.58	651.39	571.63	-571.63	2.69	474998.47	650054.18	
7197.00	5.97	26.70	7132.32	655.64	573.83	-573.83	1.98	475002.72	650056.38	
7228.00	6.05	24.04	7163.15	658.57	575.22	-575.22	0.93	475005.65	650057.77	
7260.00	8.08	22.26	7194.90	662.19	576.76	-576.76	6.38	475009.27	650059.31	
7291.00	10.80	27.87	7225.48	666.78	578.94	-578.94	9.25	475013.86	650061.49	
7323.00	13.12	30.61	7256.78	672.56	582.19	-582.19	7.46	475019.64	650064.74	
7354.00	14.61	25.01	7286.88	679.13	585.64	-585.64	6.46	475026.21	650068.19	
7386.00	16.27	22.11	7317.72	686.94	589.03	-589.03	5.72	475034.02	650071.58	
7417.00	17.99	17.05	7347.35	695.54	592.07	-592.07	7.34	475042.62	650074.62	
7449.00	19.33	7.55	7377.67	705.52	594.21	-594.21	10.37	475052.60	650076.76	
7480.00	21.02	1.47	7406.77	716.16	595.03	-595.03	8.68	475063.24	650077.58	
7511.00	23.46	358.93	7435.47	727.89	595.06	-595.06	8.46	475074.97	650077.61	
7543.00	26.98	354.51	7464.41	741.49	594.25	-594.25	12.47	475088.57	650076.80	
7574.00	30.07	351.05	7491.65	756.17	592.36	-592.36	11.30	475103.25	650074.91	
7606.00	33.38	348.66	7518.87	772.72	589.38	-589.38	11.06	475119.80	650071.93	
7638.00	36.90	344.04	7545.03	790.60	585.01	-585.01	13.78	475137.68	650067.56	
7669.00	40.18	341.37	7569.28	809.03	579.25	-579.25	11.86	475156.11	650061.80	
7701.00	43.03	338.43	7593.21	828.97	571.94	-571.94	10.79	475176.05	650054.49	
7732.00	46.46	333.77	7615.23	848.90	563.08	-563.08	15.30	475195.98	650045.63	
7764.00	49.96	329.74	7636.55	869.90	551.78	-551.78	14.41	475216.98	650034.33	
7796.00	54.67	327.66	7656.11	891.52	538.61	-538.61	15.59	475238.60	650021.16	
7827.00	59.74	325.10	7672.90	913.20	524.18	-524.18	17.77	475260.28	650006.73	
7859.00	63.61	321.20	7688.08	935.72	507.28	-507.28	16.16	475282.80	649989.83	
7890.00	67.23	317.61	7700.98	957.11	488.93	-488.93	15.72	475304.19	649971.48	
7922.00	70.60	313.72	7712.50	978.45	468.06	-468.06	15.48	475325.53	649950.61	
7954.00	73.26	310.76	7722.42	998.89	445.54	-445.54	12.10	475345.97	649928.09	
7985.00	75.51	307.80	7730.77	1017.78	422.43	-422.43	11.71	475364.86	649904.98	
8016.00	77.74	304.12	7737.94	1035.49	398.03	-398.03	13.61	475382.57	649880.58	
8048.00	78.60	301.25	7744.50	1052.40	371.67	-371.67	9.18	475399.48	649854.22	

5D Survey Report

Survey Points (Relative to Slot centre, TVD relative to Well TVD Reference)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	VS (US ft)	DLS (%/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
8080.00	79.31	298.87	7750.63	1068.13	344.49	-344.49	7.63	475415.21	649827.04	
8111.00	82.56	297.21	7755.52	1082.51	317.47	-317.47	11.74	475429.59	649800.02	
8143.00	86.92	295.79	7758.45	1096.73	288.96	-288.96	14.32	475443.81	649771.51	
8174.00	90.77	294.19	7759.07	1109.82	260.87	-260.87	13.45	475456.90	649743.42	
8206.00	91.89	291.58	7758.33	1122.26	231.40	-231.40	8.87	475469.34	649713.95	
8237.00	91.68	288.33	7757.37	1132.83	202.28	-202.28	10.50	475479.91	649684.83	
8269.00	91.54	286.07	7756.47	1142.29	171.73	-171.73	7.07	475489.37	649654.28	
8375.00	90.77	280.07	7754.33	1166.24	68.54	-68.54	5.71	475513.32	649551.09	
8469.00	89.37	276.63	7754.21	1179.89	-24.44	24.44	3.95	475526.97	649458.11	
8564.00	90.84	274.22	7754.04	1188.87	-119.01	119.01	2.97	475535.95	649363.54	
8659.00	91.75	272.32	7751.89	1194.29	-213.82	213.82	2.22	475541.37	649268.73	
8753.00	91.96	271.02	7748.85	1197.03	-307.73	307.73	1.40	475544.11	649174.82	
8848.00	92.59	270.29	7745.08	1198.11	-402.65	402.65	1.01	475545.19	649079.90	
8943.00	93.43	270.74	7740.09	1198.96	-497.51	497.51	1.00	475546.04	648985.04	
9038.00	92.52	271.49	7735.16	1200.81	-592.37	592.37	1.24	475547.89	648890.18	
9132.00	90.77	271.94	7732.46	1203.62	-686.28	686.28	1.92	475550.70	648796.27	
9227.00	90.77	272.27	7731.18	1207.11	-781.21	781.21	0.35	475554.19	648701.34	
9322.00	89.51	272.05	7730.95	1210.69	-876.14	876.14	1.35	475557.77	648606.41	
9417.00	89.51	272.21	7731.76	1214.22	-971.07	971.07	0.17	475561.30	648511.48	
9511.00	90.14	272.32	7732.05	1217.94	-1065.00	1065.00	0.68	475565.02	648417.55	
9606.00	89.65	271.48	7732.23	1221.09	-1159.94	1159.94	1.02	475568.17	648322.61	
9701.00	88.74	269.53	7733.56	1221.93	-1254.92	1254.92	2.26	475569.01	648227.63	
9796.00	89.37	269.28	7735.13	1220.94	-1349.91	1349.91	0.71	475568.02	648132.64	
9890.00	90.63	269.67	7735.13	1220.08	-1443.90	1443.90	1.40	475567.16	648038.65	
9984.00	90.77	269.92	7733.98	1219.74	-1537.89	1537.89	0.30	475566.82	647944.66	
10079.00	91.54	270.79	7732.06	1220.33	-1632.87	1632.87	1.22	475567.41	647849.68	
10173.00	89.65	270.13	7731.09	1221.08	-1726.86	1726.86	2.13	475568.16	647755.69	
10268.00	88.88	270.10	7732.31	1221.28	-1821.85	1821.85	0.81	475568.36	647660.70	
10362.00	90.28	269.55	7733.00	1220.99	-1915.84	1915.84	1.60	475568.07	647566.71	
10457.00	91.05	269.89	7731.89	1220.52	-2010.83	2010.83	0.89	475567.60	647471.72	
10551.00	91.12	269.86	7730.11	1220.32	-2104.82	2104.82	0.08	475567.40	647377.73	
10646.00	91.61	270.21	7727.85	1220.38	-2199.79	2199.79	0.63	475567.46	647282.76	
10740.00	89.72	270.75	7726.76	1221.16	-2293.77	2293.77	2.09	475568.24	647188.78	
10835.00	89.37	270.98	7727.51	1222.60	-2388.76	2388.76	0.44	475569.68	647093.79	
10929.00	89.16	271.11	7728.72	1224.31	-2482.74	2482.74	0.26	475571.39	646999.81	
11024.00	89.16	271.94	7730.11	1226.84	-2577.69	2577.69	0.87	475573.92	646904.86	
11119.00	89.16	272.77	7731.50	1230.74	-2672.60	2672.60	0.87	475577.82	646809.95	
11213.00	88.67	271.25	7733.28	1234.04	-2766.52	2766.52	1.70	475581.12	646716.03	
11308.00	88.46	270.35	7735.66	1235.37	-2861.48	2861.48	0.97	475582.45	646621.07	
11403.00	89.44	269.42	7737.40	1235.18	-2956.46	2956.46	1.42	475582.26	646526.09	
11498.00	89.44	268.74	7738.33	1233.65	-3051.45	3051.45	0.72	475580.73	646431.10	
11592.00	90.63	268.84	7738.28	1231.67	-3145.42	3145.42	1.27	475578.75	646337.13	
11687.00	91.47	269.99	7736.53	1230.70	-3240.40	3240.40	1.50	475577.78	646242.15	
11781.00	91.61	269.89	7734.01	1230.60	-3334.37	3334.37	0.18	475577.68	646148.18	
11876.00	91.82	269.78	7731.17	1230.32	-3429.32	3429.32	0.25	475577.40	646053.23	
11971.00	90.77	270.26	7729.02	1230.36	-3524.30	3524.30	1.22	475577.44	645958.25	
12065.00	91.40	270.52	7727.24	1231.00	-3618.28	3618.28	0.73	475578.08	645864.27	
12160.00	91.61	271.24	7724.74	1232.45	-3713.23	3713.23	0.79	475579.53	645769.32	
12255.00	92.03	271.63	7721.73	1234.83	-3808.16	3808.16	0.60	475581.91	645674.39	
12349.00	90.98	271.30	7719.26	1237.23	-3902.09	3902.09	1.17	475584.31	645580.46	
12444.00	90.84	271.38	7717.75	1239.46	-3997.05	3997.05	0.17	475586.54	645485.50	
12539.00	91.40	272.04	7715.89	1242.29	-4091.99	4091.99	0.91	475589.37	645390.56	
12634.00	92.03	272.81	7713.05	1246.31	-4186.86	4186.86	1.05	475593.39	645295.69	
12684.00	92.17	273.05	7711.22	1248.86	-4236.76	4236.76	0.56	475595.94	645245.79	Last Svy 10H
12764.00	92.17	273.05	7708.19	1253.12	-4316.59	4316.59	0.00	475600.20	645165.96	Proj. To Bit



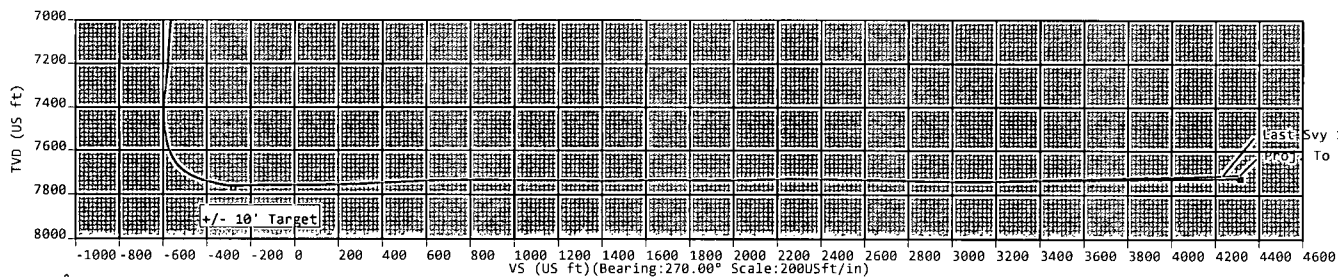
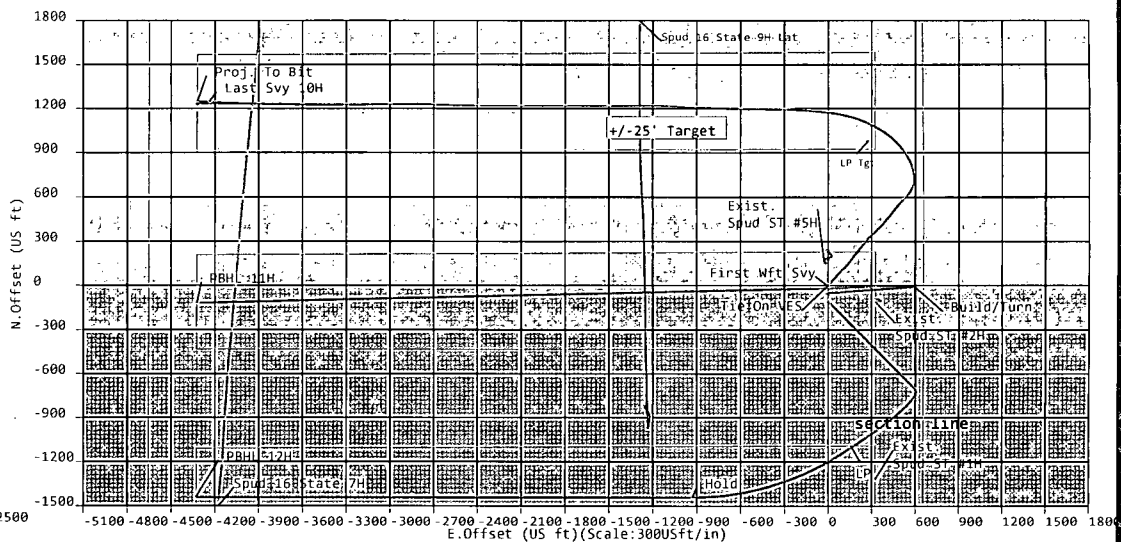
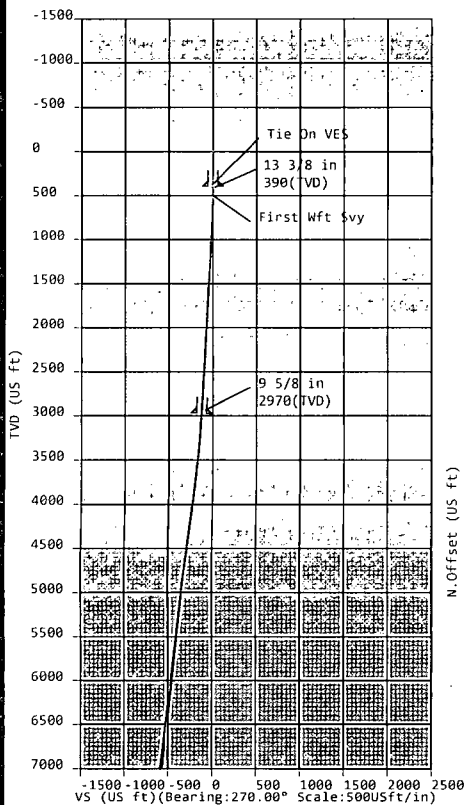
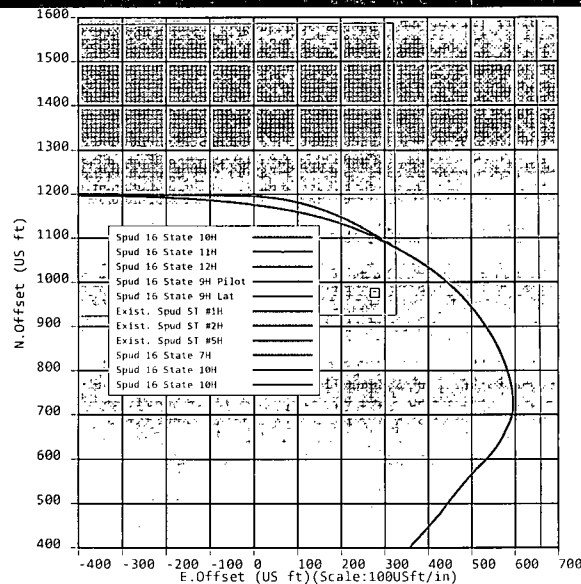
Spud 16 State 10H
Eddy Co, NM

KB-2988
GL-2963

Plan Data for Spud 16 State 10H									
Plan Point Information:									
Dogleg Severity Unit:	*/100.00ft	Position offsets from Slot centre							
RD Inc	AZ	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DL5	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(DL50)	
11781.00	93.61	269.89	7734.01	1230.80	-3334.37	475577.68	646148.18	3334.37	0.18
11833.46	90.50	270.58	7733.04	1230.81	-3386.82	475577.89	646095.73	3386.82	2.50
12764.17	90.50	270.58	7725.00	1240.25	-4317.44	475587.33	645165.11	4317.44	0.00

Plan Data for Spud 16 State 10H									
Target Set Information:									
Name: Spud 16 State 10H									
Position offsets from Slot centre									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment		
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)				
LP Tgt	7770.00	976.63	277.57	475323.71	649766.12	Cuboid			
PBHL	7725.00	1240.25	-4317.44	475587.33	645165.11	Cuboid			

Plan Data for Spud 16 State 10H									
Slot: Spud 16 State 10H									
Position:									
Offset is from Site centre									
+N/-S:	0.00USft	Northing:	475347.00USft	Latitude:	32°18'12.8"				
+E/-W:	0.00USft	Easting:	649402.55USft	Longitude:	-103°58'59.9"				
Elevation Above VRD: 2963.00USft									



Sign Off: Russell Joyner