



XTO Energy

**Eddy County, NM (NAD-27)
Tombstone 11 State
705H**

OH

Plan: PERMIT

Standard Planning Report

21 February, 2019



Project: Eddy County, NM (NAD-27)
 Site: Tombstone 11 State
 Well: 705H
 Wellbore: OH
 Design: PERMIT

WELL DETAILS: 705H

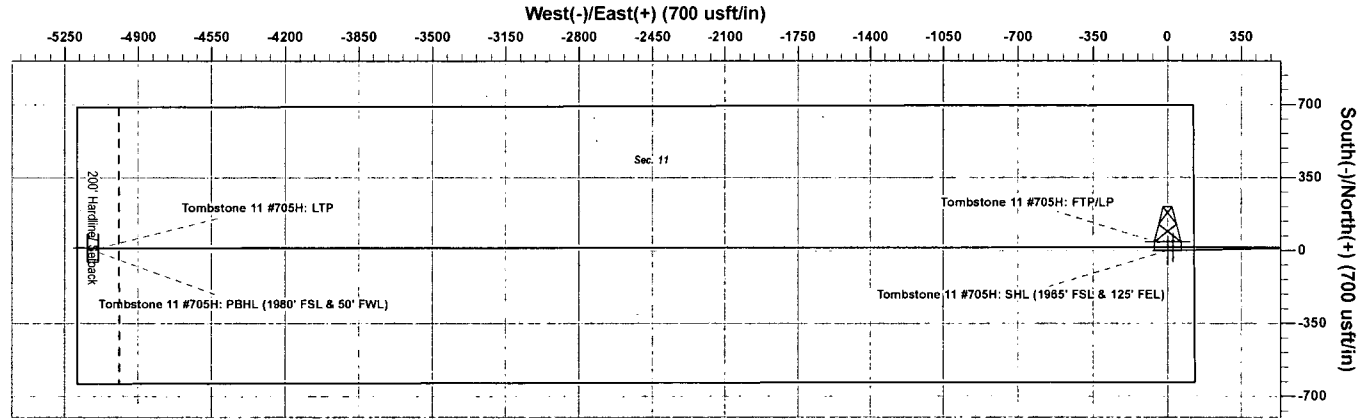
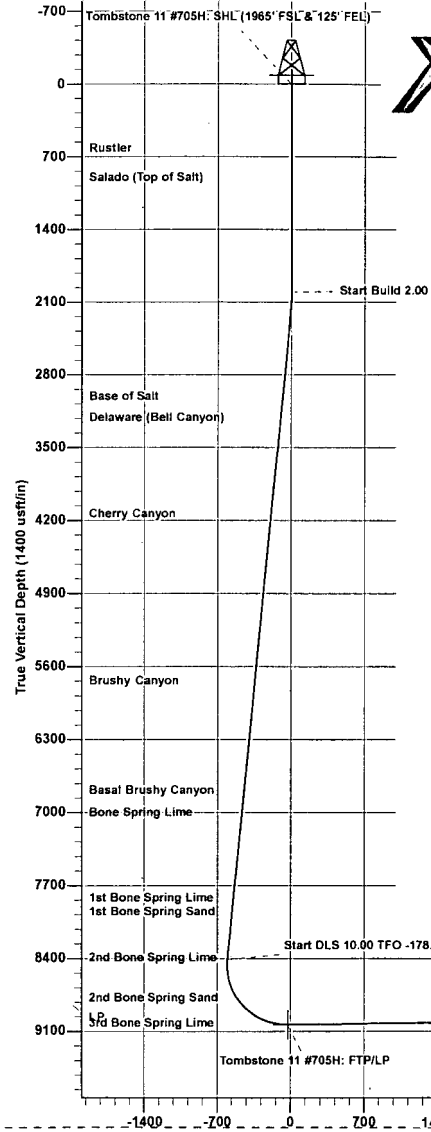
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	415817.40	619734.20	32.142608	-103.946489

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00
3	2274.46	5.49	88.65	2274.04	0.31	13.13	2.00	88.647	-13.13
4	8437.98	5.49	88.65	8409.30	14.23	602.55	0.00	0.000	-602.55
5	9400.19	90.73	269.95	9037.00	15.10	24.90	10.00	-178.691	-24.91
6	14516.70	90.73	269.95	8971.64	10.54	-5091.20	0.00	0.000	5091.19
7	14566.70	90.73	269.95	8971.00	10.50	-5141.20	0.00	0.000	5141.19

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Tombstone 11 #705H: SHL (1965' FSL & 125' FEL)	0.00	0.00	0.00	415817.40	619734.20	32.142608	-103.946489	Point
Tombstone 11 #705H: PBHL (1980' FSL & 50' FWL)	8971.00	10.50	-5141.20	415827.90	614593.00	32.142686	-103.963059	Point
Tombstone 11 #705H: LTP	8971.64	10.50	-5091.20	415827.90	614643.00	32.142686	-103.962937	Point
Tombstone 11 #705H: FTP/LP	9037.00	15.10	24.90	415832.50	619759.10	32.142649	-103.946408	Point



FORMATION TOP DETAILS

TVDP	Formation
692.00	Rustler
972.00	Salado (Top of Salt)
3078.00	Base of Salt
3284.00	Delaware (Bell Canyon)
4206.00	Cherry Canyon
5837.00	Brushy Canyon
6857.00	Basal Brushy Canyon
7071.00	Bone Spring Lime
7959.00	1st Bone Spring Lime
8024.00	1st Bone Spring Sand
8463.00	2nd Bone Spring Lime
8846.00	2nd Bone Spring Sand
9037.00	LP

PROJECT DETAILS: Eddy County, NM (NAD-27)
 Geodetic System: US State Plane 1827 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by Prototype are at the sole risk and responsibility of the customer.

Vertical Section at 269.95° (1400 usft/in)

Plan: PERMIT (705H/OH)
Created By: Matthew May Date: 8:25, February 22 2019

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-		² Pool Code		³ Pool Name	
⁴ Property Code		⁵ Property Name TOMBSTONE 11 STATE			⁶ Well Number 705H
⁷ OGRID No. 005380		⁸ Operator Name XTO ENERGY, INC.			⁹ Elevation 3,133'

¹⁰ Surface Location

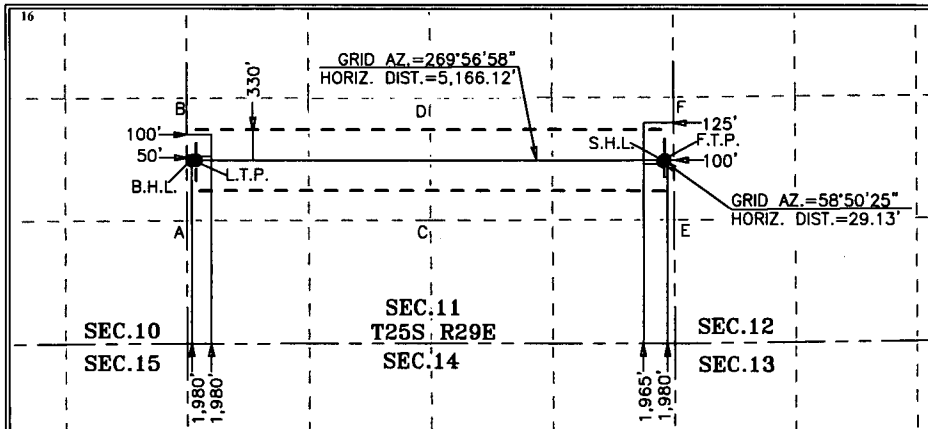
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	11	25 S	29 E		1,965	SOUTH	125	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	11	25 S	29 E		1,980	SOUTH	50	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

02-4-2019
Date of Survey _____

Signature and Seal of
Professional Surveyor:

PRELIMINARY. THIS DOCUMENT SHALL NOT BE RECORDED FOR ANY PURPOSE AND SHALL NOT BE USED OR VIEWED OR RELIED UPON AS A FINAL SURVEY DOCUMENT

MARK DILLON HARP 23786
Certificate Number _____ JC _____ 2019010102

¹⁶ GEODETIC COORDINATES

SURFACE LOCATION
NAD 27 NME
Y= 415,817.4
X= 619,734.2
LAT.= 32.142608°N
LONG.= 103.946489°W

LAST TAKE POINT
NAD 27 NME
Y= 415,827.9
X= 614,643.0
LAT.= 32.142686°N
LONG.= 103.962937°W

GEODETIC COORDINATES

SURFACE LOCATION
NAD 83 NME
Y= 415,875.8
X= 660,918.6
LAT.= 32.142732°N
LONG.= 103.946975°W

LAST TAKE POINT
NAD 83 NME
Y= 415,886.3
X= 655,827.4
LAT.= 32.142810°N
LONG.= 103.963424°W

FIRST TAKE POINT
NAD 27 NME
Y= 415,832.5
X= 619,759.1
LAT.= 32.142649°N
LONG.= 103.946408°W

BOTTOM HOLE LOCATION
NAD 27 NME
Y= 415,827.9
X= 614,593.0
LAT.= 32.142686°N
LONG.= 103.963099°W

FIRST TAKE POINT
NAD 83 NME
Y= 415,890.9
X= 660,943.5
LAT.= 32.142773°N
LONG.= 103.946894°W

BOTTOM HOLE LOCATION
NAD 83 NME
Y= 415,886.3
X= 655,777.4
LAT.= 32.142810°N
LONG.= 103.963585°W

CORNER COORDINATES TABLE

NAD 27 NME
A - Y= 415,175.5 N, X= 614,544.8 E
B - Y= 416,503.2 N, X= 614,541.2 E
C - Y= 415,180.9 N, X= 617,205.3 E
D - Y= 416,508.7 N, X= 617,198.1 E
E - Y= 415,183.4 N, X= 619,863.8 E
F - Y= 416,514.3 N, X= 619,854.2 E

CORNER COORDINATES TABLE

NAD 83 NME
A - Y= 415,233.9 N, X= 655,729.2 E
B - Y= 416,561.6 N, X= 655,725.5 E
C - Y= 415,239.3 N, X= 658,389.7 E
D - Y= 416,567.1 N, X= 658,382.5 E
E - Y= 415,241.8 N, X= 661,048.2 E
F - Y= 416,572.7 N, X= 661,038.6 E



Database: EDM 5000.1 Single User Db
 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Tombstone 11 State
 Well: 705H
 Wellbore: OH
 Design: PERMIT

Local Co-ordinate Reference: Well 705H
 TVD Reference: GL @ 3133.00usft
 MD Reference: GL @ 3133.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Tombstone 11 State				
Site Position:	Northing:	418,228.20 usft	Latitude:	32.149235	
From: Map	Easting:	619,717.20 usft	Longitude:	-103.946516	
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.206 °

Well	705H					
Well Position	+N/-S	-2,410.80 usft	Northing:	415,817.40 usft	Latitude:	32.142608
	+E/-W	17.00 usft	Easting:	619,734.20 usft	Longitude:	-103.946489
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,133.00 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/21/2019	6.940	59.907	47,680

Design	PERMIT				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.95	

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	0.000	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,274.46	5.49	88.65	2,274.04	0.31	13.13	2.00	2.00	0.00	88.647	
8,437.98	5.49	88.65	8,409.30	14.23	602.55	0.00	0.00	0.00	0.000	
9,400.18	90.73	269.95	9,037.00	15.10	24.90	10.00	8.86	-18.57	-178.691	Tombstone 11 #70!
14,516.70	90.73	269.95	8,971.64	10.54	-5,091.20	0.00	0.00	0.00	0.000	Tombstone 11 #70!
14,566.70	90.73	269.95	8,971.00	10.50	-5,141.20	0.00	0.00	0.00	0.000	Tombstone 11 #70!



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 Company: XTO Energy
 Project: Eddy County, NM (NAD-27)
 Site: Tombstone 11 State
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 Design: PERMIT

Local Co-ordinate Reference: Well 705H
 TVD Reference: GL @ 3133.00usft
 MD Reference: GL @ 3133.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tombstone 11 #705H: SHL (1965' FSL & 125' FEL)									
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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
692.00	0.00	0.00	692.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
972.00	0.00	0.00	972.00	0.00	0.00	0.00	0.00	0.00	0.00
Salado (Top of Salt)									
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	2.00	88.65	2,099.98	0.04	1.74	-1.74	2.00	2.00	0.00
2,200.00	4.00	88.65	2,199.84	0.16	6.98	-6.98	2.00	2.00	0.00
2,274.46	5.49	88.65	2,274.04	0.31	13.13	-13.13	2.00	2.00	0.00
2,300.00	5.49	88.65	2,299.46	0.37	15.58	-15.58	0.00	0.00	0.00
2,400.00	5.49	88.65	2,399.00	0.59	25.14	-25.14	0.00	0.00	0.00
2,500.00	5.49	88.65	2,498.55	0.82	34.70	-34.70	0.00	0.00	0.00
2,600.00	5.49	88.65	2,598.09	1.05	44.26	-44.27	0.00	0.00	0.00
2,700.00	5.49	88.65	2,697.63	1.27	53.83	-53.83	0.00	0.00	0.00
2,800.00	5.49	88.65	2,797.17	1.50	63.39	-63.39	0.00	0.00	0.00
2,900.00	5.49	88.65	2,896.71	1.72	72.95	-72.96	0.00	0.00	0.00
3,000.00	5.49	88.65	2,996.25	1.95	82.52	-82.52	0.00	0.00	0.00
3,082.12	5.49	88.65	3,078.00	2.13	90.37	-90.37	0.00	0.00	0.00
Base of Salt									
3,100.00	5.49	88.65	3,095.79	2.17	92.08	-92.08	0.00	0.00	0.00
3,200.00	5.49	88.65	3,195.34	2.40	101.64	-101.65	0.00	0.00	0.00
3,289.07	5.49	88.65	3,284.00	2.60	110.16	-110.16	0.00	0.00	0.00
Delaware (Bell Canyon)									
3,300.00	5.49	88.65	3,294.88	2.63	111.21	-111.21	0.00	0.00	0.00
3,400.00	5.49	88.65	3,394.42	2.85	120.77	-120.77	0.00	0.00	0.00
3,500.00	5.49	88.65	3,493.96	3.08	130.33	-130.33	0.00	0.00	0.00
3,600.00	5.49	88.65	3,593.50	3.30	139.90	-139.90	0.00	0.00	0.00
3,700.00	5.49	88.65	3,693.04	3.53	149.46	-149.46	0.00	0.00	0.00
3,800.00	5.49	88.65	3,792.58	3.75	159.02	-159.02	0.00	0.00	0.00
3,900.00	5.49	88.65	3,892.13	3.98	168.58	-168.59	0.00	0.00	0.00
4,000.00	5.49	88.65	3,991.67	4.21	178.15	-178.15	0.00	0.00	0.00
4,100.00	5.49	88.65	4,091.21	4.43	187.71	-187.71	0.00	0.00	0.00
4,200.00	5.49	88.65	4,190.75	4.66	197.27	-197.28	0.00	0.00	0.00
4,215.32	5.49	88.65	4,206.00	4.69	198.74	-198.74	0.00	0.00	0.00



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 TVD Reference: GL @ 3133.00usft
 MD Reference: GL @ 3133.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
Cherry Canyon									
4,300.00	5.49	88.65	4,290.29	4.88	206.84	-206.84	0.00	0.00	0.00
4,400.00	5.49	88.65	4,389.83	5.11	216.40	-216.40	0.00	0.00	0.00
4,500.00	5.49	88.65	4,489.37	5.34	225.96	-225.97	0.00	0.00	0.00
4,600.00	5.49	88.65	4,588.92	5.56	235.53	-235.53	0.00	0.00	0.00
4,700.00	5.49	88.65	4,688.46	5.79	245.09	-245.09	0.00	0.00	0.00
4,800.00	5.49	88.65	4,788.00	6.01	254.65	-254.66	0.00	0.00	0.00
4,900.00	5.49	88.65	4,887.54	6.24	264.21	-264.22	0.00	0.00	0.00
5,000.00	5.49	88.65	4,987.08	6.46	273.78	-273.78	0.00	0.00	0.00
5,100.00	5.49	88.65	5,086.62	6.69	283.34	-283.35	0.00	0.00	0.00
5,200.00	5.49	88.65	5,186.17	6.92	292.90	-292.91	0.00	0.00	0.00
5,300.00	5.49	88.65	5,285.71	7.14	302.47	-302.47	0.00	0.00	0.00
5,400.00	5.49	88.65	5,385.25	7.37	312.03	-312.04	0.00	0.00	0.00
5,500.00	5.49	88.65	5,484.79	7.59	321.59	-321.60	0.00	0.00	0.00
5,600.00	5.49	88.65	5,584.33	7.82	331.16	-331.16	0.00	0.00	0.00
5,700.00	5.49	88.65	5,683.87	8.04	340.72	-340.73	0.00	0.00	0.00
5,800.00	5.49	88.65	5,783.41	8.27	350.28	-350.29	0.00	0.00	0.00
5,823.70	5.49	88.65	5,807.00	8.32	352.55	-352.55	0.00	0.00	0.00
Brushy Canyon									
5,900.00	5.49	88.65	5,882.96	8.50	359.84	-359.85	0.00	0.00	0.00
6,000.00	5.49	88.65	5,982.50	8.72	369.41	-369.42	0.00	0.00	0.00
6,100.00	5.49	88.65	6,082.04	8.95	378.97	-378.98	0.00	0.00	0.00
6,200.00	5.49	88.65	6,181.58	9.17	388.53	-388.54	0.00	0.00	0.00
6,300.00	5.49	88.65	6,281.12	9.40	398.10	-398.10	0.00	0.00	0.00
6,400.00	5.49	88.65	6,380.66	9.62	407.66	-407.67	0.00	0.00	0.00
6,500.00	5.49	88.65	6,480.20	9.85	417.22	-417.23	0.00	0.00	0.00
6,600.00	5.49	88.65	6,579.75	10.08	426.79	-426.79	0.00	0.00	0.00
6,700.00	5.49	88.65	6,679.29	10.30	436.35	-436.36	0.00	0.00	0.00
6,800.00	5.49	88.65	6,778.83	10.53	445.91	-445.92	0.00	0.00	0.00
6,878.53	5.49	88.65	6,857.00	10.71	453.42	-453.43	0.00	0.00	0.00
Basal Brushy Canyon									
6,900.00	5.49	88.65	6,878.37	10.75	455.47	-455.48	0.00	0.00	0.00
7,000.00	5.49	88.65	6,977.91	10.98	465.04	-465.05	0.00	0.00	0.00
7,093.52	5.49	88.65	7,071.00	11.19	473.98	-473.99	0.00	0.00	0.00
Bone Spring Lime									
7,100.00	5.49	88.65	7,077.45	11.21	474.60	-474.61	0.00	0.00	0.00
7,200.00	5.49	88.65	7,176.99	11.43	484.16	-484.17	0.00	0.00	0.00
7,300.00	5.49	88.65	7,276.54	11.66	493.73	-493.74	0.00	0.00	0.00
7,400.00	5.49	88.65	7,376.08	11.88	503.29	-503.30	0.00	0.00	0.00
7,500.00	5.49	88.65	7,475.62	12.11	512.85	-512.86	0.00	0.00	0.00
7,600.00	5.49	88.65	7,575.16	12.33	522.42	-522.43	0.00	0.00	0.00
7,700.00	5.49	88.65	7,674.70	12.56	531.98	-531.99	0.00	0.00	0.00
7,800.00	5.49	88.65	7,774.24	12.79	541.54	-541.55	0.00	0.00	0.00
7,900.00	5.49	88.65	7,873.78	13.01	551.10	-551.12	0.00	0.00	0.00
7,985.61	5.49	88.65	7,959.00	13.21	559.29	-559.30	0.00	0.00	0.00
1st Bone Spring Lime									
8,000.00	5.49	88.65	7,973.33	13.24	560.67	-560.68	0.00	0.00	0.00
8,050.91	5.49	88.65	8,024.00	13.35	565.54	-565.55	0.00	0.00	0.00
1st Bone Spring Sand									
8,100.00	5.49	88.65	8,072.87	13.46	570.23	-570.24	0.00	0.00	0.00
8,200.00	5.49	88.65	8,172.41	13.69	579.79	-579.81	0.00	0.00	0.00
8,300.00	5.49	88.65	8,271.95	13.91	589.36	-589.37	0.00	0.00	0.00
8,400.00	5.49	88.65	8,371.49	14.14	598.92	-598.93	0.00	0.00	0.00



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 Design: PERMIT

Local Co-ordinate Reference: Well 705H
 TVD Reference: GL @ 3133.00usft
 MD Reference: GL @ 3133.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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)
8,437.98	5.49	88.65	8,409.30	14.23	602.55	-602.56	0.00	0.00	0.00
8,450.00	4.29	88.28	8,421.27	14.25	603.58	-603.59	10.00	-10.00	-3.06
8,491.77	0.17	41.00	8,463.00	14.35	605.18	-605.19	10.00	-9.87	-113.20
2nd Bone Spring Lime									
8,500.00	0.73	279.89	8,471.23	14.36	605.13	-605.15	10.00	6.79	-1,471.03
8,550.00	5.72	271.20	8,521.14	14.47	602.33	-602.34	10.00	9.98	-17.38
8,600.00	10.71	270.61	8,570.61	14.57	595.19	-595.20	10.00	10.00	-1.18
8,650.00	15.71	270.40	8,619.27	14.67	583.76	-583.78	10.00	10.00	-0.43
8,700.00	20.71	270.28	8,666.75	14.76	568.14	-568.15	10.00	10.00	-0.23
8,750.00	25.71	270.21	8,712.69	14.84	548.44	-548.45	10.00	10.00	-0.14
8,800.00	30.71	270.16	8,756.73	14.92	524.81	-524.82	10.00	10.00	-0.10
8,850.00	35.71	270.12	8,798.55	14.99	497.43	-497.44	10.00	10.00	-0.07
8,900.00	40.71	270.10	8,837.82	15.05	466.51	-466.52	10.00	10.00	-0.06
8,910.88	41.80	270.09	8,846.00	15.06	459.33	-459.34	10.00	10.00	-0.05
2nd Bone Spring Sand									
8,950.00	45.71	270.07	8,874.25	15.10	432.28	-432.29	10.00	10.00	-0.05
9,000.00	50.71	270.05	8,907.56	15.14	395.01	-395.02	10.00	10.00	-0.04
9,050.00	55.71	270.04	8,937.49	15.17	354.98	-354.99	10.00	10.00	-0.03
9,100.00	60.71	270.02	8,963.82	15.19	312.49	-312.50	10.00	10.00	-0.03
9,150.00	65.71	270.01	8,986.34	15.20	267.87	-267.88	10.00	10.00	-0.03
9,200.00	70.71	269.99	9,004.89	15.20	221.46	-221.47	10.00	10.00	-0.03
9,250.00	75.71	269.98	9,019.33	15.19	173.60	-173.61	10.00	10.00	-0.02
9,300.00	80.71	269.97	9,029.54	15.17	124.67	-124.68	10.00	10.00	-0.02
9,350.00	85.71	269.96	9,035.44	15.14	75.04	-75.05	10.00	10.00	-0.02
9,400.18	90.73	269.95	9,037.00	15.10	24.90	-24.91	10.00	10.00	-0.02
LP - Tombstone 11 #705H: FTP/LP									
9,500.00	90.73	269.95	9,035.73	15.01	-74.91	74.90	0.00	0.00	0.00
9,600.00	90.73	269.95	9,034.45	14.92	-174.91	174.89	0.00	0.00	0.00
9,700.00	90.73	269.95	9,033.17	14.83	-274.90	274.89	0.00	0.00	0.00
9,800.00	90.73	269.95	9,031.89	14.74	-374.89	374.88	0.00	0.00	0.00
9,900.00	90.73	269.95	9,030.62	14.65	-474.88	474.87	0.00	0.00	0.00
10,000.00	90.73	269.95	9,029.34	14.57	-574.87	574.86	0.00	0.00	0.00
10,100.00	90.73	269.95	9,028.06	14.48	-674.87	674.85	0.00	0.00	0.00
10,200.00	90.73	269.95	9,026.78	14.39	-774.86	774.84	0.00	0.00	0.00
10,300.00	90.73	269.95	9,025.51	14.30	-874.85	874.84	0.00	0.00	0.00
10,400.00	90.73	269.95	9,024.23	14.21	-974.84	974.83	0.00	0.00	0.00
10,500.00	90.73	269.95	9,022.95	14.12	-1,074.83	1,074.82	0.00	0.00	0.00
10,600.00	90.73	269.95	9,021.67	14.03	-1,174.82	1,174.81	0.00	0.00	0.00
10,700.00	90.73	269.95	9,020.40	13.94	-1,274.82	1,274.80	0.00	0.00	0.00
10,800.00	90.73	269.95	9,019.12	13.85	-1,374.81	1,374.80	0.00	0.00	0.00
10,900.00	90.73	269.95	9,017.84	13.76	-1,474.80	1,474.79	0.00	0.00	0.00
11,000.00	90.73	269.95	9,016.56	13.68	-1,574.79	1,574.78	0.00	0.00	0.00
11,100.00	90.73	269.95	9,015.29	13.59	-1,674.78	1,674.77	0.00	0.00	0.00
11,200.00	90.73	269.95	9,014.01	13.50	-1,774.78	1,774.76	0.00	0.00	0.00
11,300.00	90.73	269.95	9,012.73	13.41	-1,874.77	1,874.75	0.00	0.00	0.00
11,400.00	90.73	269.95	9,011.45	13.32	-1,974.76	1,974.75	0.00	0.00	0.00
11,500.00	90.73	269.95	9,010.18	13.23	-2,074.75	2,074.74	0.00	0.00	0.00
11,600.00	90.73	269.95	9,008.90	13.14	-2,174.74	2,174.73	0.00	0.00	0.00
11,700.00	90.73	269.95	9,007.62	13.05	-2,274.73	2,274.72	0.00	0.00	0.00
11,800.00	90.73	269.95	9,006.34	12.96	-2,374.73	2,374.71	0.00	0.00	0.00
11,900.00	90.73	269.95	9,005.07	12.87	-2,474.72	2,474.71	0.00	0.00	0.00
12,000.00	90.73	269.95	9,003.79	12.79	-2,574.71	2,574.70	0.00	0.00	0.00
12,100.00	90.73	269.95	9,002.51	12.70	-2,674.70	2,674.69	0.00	0.00	0.00



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
12,200.00	90.73	269.95	9,001.23	12.61	-2,774.69	2,774.68	0.00	0.00	0.00
12,300.00	90.73	269.95	8,999.96	12.52	-2,874.69	2,874.67	0.00	0.00	0.00
12,400.00	90.73	269.95	8,998.68	12.43	-2,974.68	2,974.67	0.00	0.00	0.00
12,500.00	90.73	269.95	8,997.40	12.34	-3,074.67	3,074.66	0.00	0.00	0.00
12,600.00	90.73	269.95	8,996.12	12.25	-3,174.66	3,174.65	0.00	0.00	0.00
12,700.00	90.73	269.95	8,994.85	12.16	-3,274.65	3,274.64	0.00	0.00	0.00
12,800.00	90.73	269.95	8,993.57	12.07	-3,374.64	3,374.63	0.00	0.00	0.00
12,900.00	90.73	269.95	8,992.29	11.98	-3,474.64	3,474.62	0.00	0.00	0.00
13,000.00	90.73	269.95	8,991.01	11.89	-3,574.63	3,574.62	0.00	0.00	0.00
13,100.00	90.73	269.95	8,989.74	11.81	-3,674.62	3,674.61	0.00	0.00	0.00
13,200.00	90.73	269.95	8,988.46	11.72	-3,774.61	3,774.60	0.00	0.00	0.00
13,300.00	90.73	269.95	8,987.18	11.63	-3,874.60	3,874.59	0.00	0.00	0.00
13,400.00	90.73	269.95	8,985.90	11.54	-3,974.60	3,974.58	0.00	0.00	0.00
13,500.00	90.73	269.95	8,984.63	11.45	-4,074.59	4,074.58	0.00	0.00	0.00
13,600.00	90.73	269.95	8,983.35	11.36	-4,174.58	4,174.57	0.00	0.00	0.00
13,700.00	90.73	269.95	8,982.07	11.27	-4,274.57	4,274.56	0.00	0.00	0.00
13,800.00	90.73	269.95	8,980.79	11.18	-4,374.56	4,374.55	0.00	0.00	0.00
13,900.00	90.73	269.95	8,979.52	11.09	-4,474.55	4,474.54	0.00	0.00	0.00
14,000.00	90.73	269.95	8,978.24	11.00	-4,574.55	4,574.53	0.00	0.00	0.00
14,100.00	90.73	269.95	8,976.96	10.92	-4,674.54	4,674.53	0.00	0.00	0.00
14,200.00	90.73	269.95	8,975.68	10.83	-4,774.53	4,774.52	0.00	0.00	0.00
14,300.00	90.73	269.95	8,974.41	10.74	-4,874.52	4,874.51	0.00	0.00	0.00
14,400.00	90.73	269.95	8,973.13	10.65	-4,974.51	4,974.50	0.00	0.00	0.00
14,500.00	90.73	269.95	8,971.85	10.56	-5,074.50	5,074.49	0.00	0.00	0.00
14,516.70	90.73	269.95	8,971.64	10.54	-5,091.20	5,091.19	0.00	0.00	0.00
Tombstone 11 #705H: LTP									
14,566.70	90.73	269.95	8,971.00	10.50	-5,141.20	5,141.19	0.00	0.00	0.00
Tombstone 11 #705H: PBHL (1980' FSL & 50' FWL)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Tombstone 11 #705H - hit/miss target - Shape - Point	0.00	0.00	0.00	0.00	0.00	415,817.40	619,734.20	32.142608	-103.946489
Tombstone 11 #705H - plan hits target center - Point	0.00	0.00	8,971.00	10.50	-5,141.20	415,827.90	614,593.00	32.142686	-103.963099
Tombstone 11 #705H - plan misses target center by 0.04usft at 14516.70usft MD (8971.64 TVD, 10.54 N, -5091.20 E) - Point	0.00	0.00	8,971.64	10.50	-5,091.20	415,827.90	614,643.00	32.142686	-103.962938
Tombstone 11 #705H - plan hits target center - Point	0.00	0.00	9,037.00	15.10	24.90	415,832.50	619,759.10	32.142649	-103.946408



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Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
692.00	692.00	Rustler			
972.00	972.00	Salado (Top of Salt)			
3,082.12	3,078.00	Base of Salt			
3,289.07	3,284.00	Delaware (Bell Canyon)			
4,215.32	4,206.00	Cherry Canyon			
5,823.70	5,807.00	Brushy Canyon			
6,878.53	6,857.00	Basal Brushy Canyon			
7,093.52	7,071.00	Bone Spring Lime			
7,985.61	7,959.00	1st Bone Spring Lime			
8,050.91	8,024.00	1st Bone Spring Sand			
8,491.77	8,463.00	2nd Bone Spring Lime			
8,910.88	8,846.00	2nd Bone Spring Sand			
9,400.18	9,037.00	LP			