

Well Name: Littlefield 33 Federal Com #2H
 AFE No.: TBD
 Permit No.: TBD
 API No.: TBD
 Objective: Wolfcamp "A"
 FW Depth: TBD
 Elevation: 2872'

OGX Operating, LLC

Area: Eddy Co., NM
 Survey: TBD
 Field: TBD
 Rig: TBD
 GL: TBD
 KB: TBD

Drilling Outline

Surface Loc. 2210' FEL of Sec 33, 330' FSL of Sec 33
 BH Loc. 2,310' FWL of Sec 28 330' FNL of Sec 28

Directions: From Inters:
 Catfish road, Go east 2

SANDS/ MARKERS	DEPTHS FROM KB		CASING PROFILE	HOLE SIZE	CASING DETAILS	MUD WT. TYPE	CEMENT DETAILS	OPEN HOLE LOGGING/CORING	DIRECTIONAL
	MD	TYD							
	60	60			20" Casing Preset @ ± 60°				
Surface Casing Point	400	400		17-1/2"	13-3/8", 54.5# J-55, STC	Fresh Water	Cement to Surface 100% Excess See Cement Recommendation	None	Totco Inclination Surveys Not to Exceed 500' Drop Gyro
Base of Salt	2,490	2,490		12-1/4"	9-5/8", 36# J-55, LTC	10 ppg Brine	Cement to Surface 50% Excess See Cement Recommendation	Mud Logger 2500' to TD	Run Steerable BHA with MWD Build negative vertical section to 50' FSL
Inter. Casing Point I	2,750	2,750		8-3/4"		9.3 ppg Brine	50% Excess Top of cement to 2307' 500' overlap inside 9-5/8" Casing		See directional plan Run Steerable BHA with MWD/GR
Cherry Canyon	3,602	3,602							
Brushy Canyon	4,801	4,801							
Bone Springs	6,430	6,430							
1st Bone Springs	7,350	7,350							
2nd Bone Springs	7,860	7,860							
3rd Bone Springs	9,240	9,240					Top of tail cement on 7" casing @ 8025'		
KOP	9,560	9,560		9,440'	Top of 4-1/2" liner		Cement to top of Liner		KOP 12.0°/100' Build at 0.51° Azimuth
Wolfcamp	9,640	9,640		8-3/4"	7", 29# HCP-110, BTC	9.3 ppg - 9.5 ppg Oil Base Mud 9.5-11.0	See Cement Recommendation 25% excess See Cement Recommendation	CNL/FDC DLL/SFL	Finish Curve with 12 degrees/100'
Inter. Casing Pt II Set 7" CASING AT 60°	10,060	9,936		6-1/8"				MWD & GR Curve	Casing Set at 60° Inc. MWD Surveys Not to Exceed 100'
EOC	10,310	10,000		6-1/8"	4-1/2", 11.6# HCP-110, BTC	Lateral 9.5 ppg - 11.0 ppg	17093 10,000 TYD	MWD & GR Lateral	

13-3/8" SOW x 9-5/8" 3M
 9-5/8" 3M x 7" 5M
 5M x 4-1/2" 10M

NOT TO SCALE

Date: 10/3/2016
 Revised Date:

EXHIBIT 10

Project: Eddy County, New Mexico (NAD83)
 Site: Littlefield 33 Fed Com
 Well: 2H
 Wellbore: OH
 Design: Plan 3 10-04-16
 Rig: TBD



Azimuths to Grid North
 True North: -0.18°
 Magnetic North: 6.92°
 Magnetic Field
 Strength: 48087.3nT
 Dip Angle: 59.73°
 Date: 8/8/2016
 Model: HDGM

Map System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone Name: New Mexico Eastern Zone
 Local Origin: Well 2H, Grid North

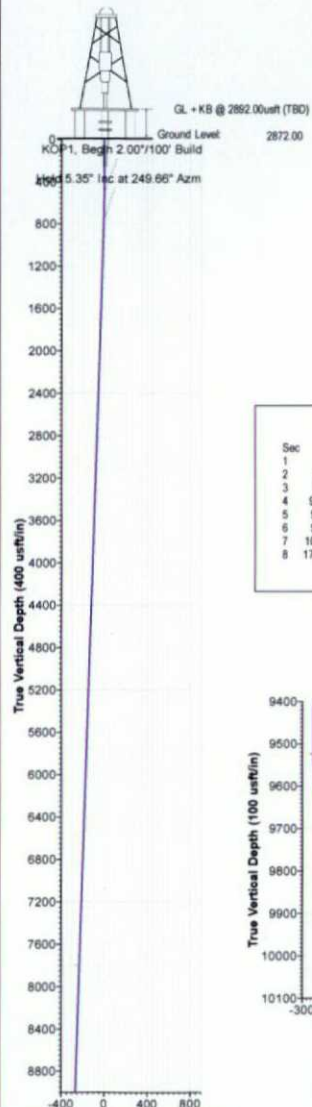
Latitude: 32° 0' 3.75467° N
 Longitude: 103° 59' 17.84273° W
 Grid East: 648296.00
 Grid North: 364289.60
 Scale Factor: 1.000

Geomagnetic Model: HDGM
 Sample Date: 08-Aug-16
 Magnetic Declination: 7.10°
 Dip Angle from Horizontal: 59.73°
 Magnetic Field Strength: 48087

To convert a Magnetic Direction to a Grid Direction, Add 6.92°
 To convert a Magnetic Direction to a True Direction, Add 7.10° East
 To convert a True Direction to a Grid Direction, Subtract 0.18°

LEGEND

Plan 3 10-04-16



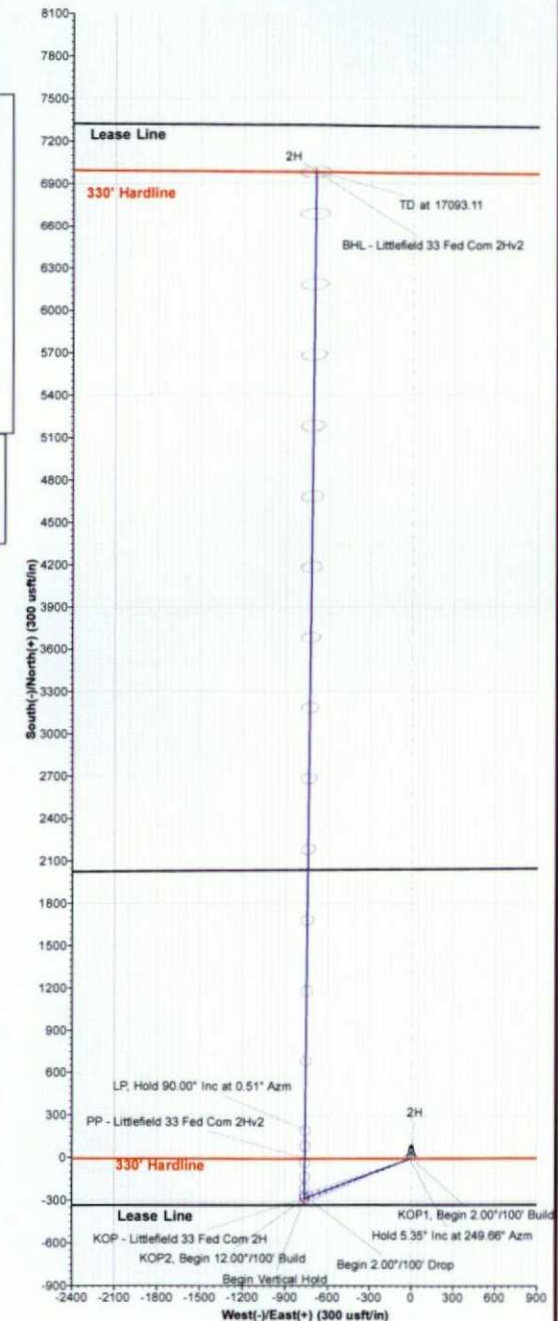
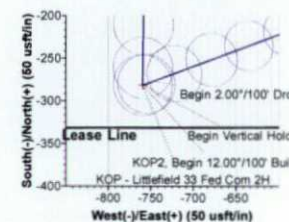
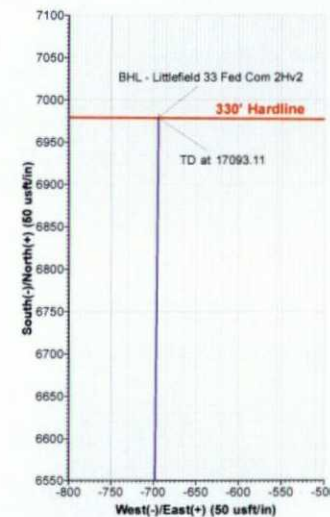
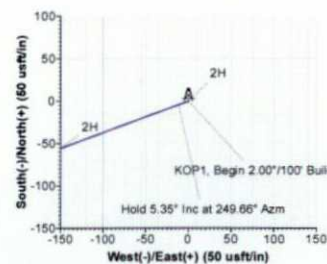
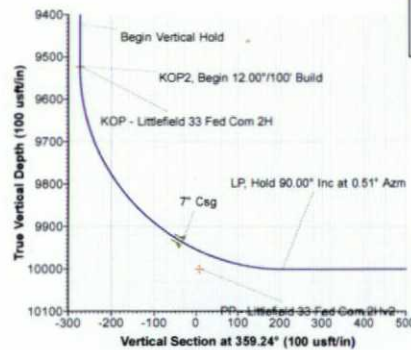
WELL DETAILS					
	+N-S	+E-W	Ground Level	Latitude	Longitude
	0.00	0.00	2872.00	32° 0' 3.75467° N	103° 59' 17.84273° W

DESIGN TARGET DETAILS						
Name	TVD	+N-S	+E-W	North	East	Latitude
KOP - Littlefield 33 Fed Com 2H	9522.54	-281.60	-759.60	364008.00	647536.40	32° 0' 0.99179° N
BHL - Littlefield 33 Fed Com 2Hv2	10000.00	6978.70	-694.50	371268.30	647601.50	32° 1' 12.83929° N
PP - Littlefield 33 Fed Com 2Hv2	10000.00	-1.60	-758.10	364288.00	647537.90	32° 0' 3.76269° N

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Hold 5.35° Inc at 249.66° Azm
3	767.37	5.35	249.66	766.98	-4.33	-11.69	2.00	249.66	-4.18	Begin 2.00°/100' Drop
4	9192.61	5.35	249.66	9155.56	-277.27	-747.91	0.00	0.00	-267.32	Begin Vertical Hold
5	9459.98	0.00	0.00	9422.54	-281.60	-759.60	2.00	180.00	-271.50	KOP2, Begin 12.00°/100' Build
6	9559.98	0.00	0.00	9522.54	-281.60	-759.60	0.00	0.00	-271.50	LP, Hold 90.00° Inc at 0.51° Azm
7	10309.98	90.00	0.51	10000.00	195.85	-755.32	12.00	0.51	295.85	TD at 17093.11
8	17093.11	90.00	0.51	10000.00	6978.70	-694.50	0.00	0.00	6987.30	BHL - Littlefield 33 Fed Com 2Hv2

FORMATION TOP DETAILS

No formation data is available



OGX Operating LLC

Eddy County, New Mexico (NAD83)

Littlefield 33 Fed Com

2H

OH

Plan: Plan 3 10-04-16

Standard Planning Report

04 October, 2016



Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	OGX Operating LLC	TVD Reference:	GL + KB @ 2892.00usft (TBD)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

Project	Eddy County, New Mexico (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Littlefield 33 Fed Com		
Site Position:	Northing:	364,289.60 usft	Latitude: 32° 0' 3.75467 N
From: Map	Easting:	648,296.00 usft	Longitude: 103° 59' 17.84273 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.18 "

Well	2H		
Well Position	+N/-S	0.00 usft	Northing: 364,289.60 usft
	+E/-W	0.00 usft	Easting: 648,296.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Ground Level:	2,872.00 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/8/2016	7.10	59.73	48,087

Design	Plan 3 10-04-16		
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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	359.24

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Buidl 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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
767.37	5.35	249.66	766.98	-4.33	-11.69	2.00	2.00	0.00	249.66	
9,192.61	5.35	249.66	9,155.56	-277.27	-747.91	0.00	0.00	0.00	0.00	
9,459.98	0.00	0.00	9,422.54	-281.60	-759.60	2.00	-2.00	0.00	180.00	
9,559.98	0.00	0.00	9,522.54	-281.60	-759.60	0.00	0.00	0.00	0.00	
10,309.98	90.00	0.51	10,000.01	195.85	-755.32	12.00	12.00	0.07	0.51	
17,093.11	90.00	0.51	10,000.00	6,978.70	-694.50	0.00	0.00	0.00	0.00	BHL - Littlefield 33 Fe

Phoenix Technology Services LP

Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	OGX Operating LLC	TVD Reference:	GL + KB @ 2892.00usft (TBD)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

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
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP1, Begin 2.00°/100' Build									
600.00	2.00	249.66	599.98	-0.61	-1.64	-0.58	2.00	2.00	0.00
700.00	4.00	249.66	699.84	-2.43	-6.54	-2.34	2.00	2.00	0.00
767.37	5.35	249.66	766.98	-4.33	-11.69	-4.18	2.00	2.00	0.00
Hold 5.35° Inc at 249.66° Azm									
800.00	5.35	249.66	799.47	-5.39	-14.54	-5.20	0.00	0.00	0.00
900.00	5.35	249.66	899.03	-8.63	-23.28	-8.32	0.00	0.00	0.00
1,000.00	5.35	249.66	998.60	-11.87	-32.02	-11.44	0.00	0.00	0.00
1,100.00	5.35	249.66	1,098.16	-15.11	-40.76	-14.57	0.00	0.00	0.00
1,200.00	5.35	249.66	1,197.73	-18.35	-49.49	-17.69	0.00	0.00	0.00
1,300.00	5.35	249.66	1,297.29	-21.59	-58.23	-20.81	0.00	0.00	0.00
1,400.00	5.35	249.66	1,396.86	-24.83	-66.97	-23.94	0.00	0.00	0.00
1,500.00	5.35	249.66	1,496.42	-28.07	-75.71	-27.06	0.00	0.00	0.00
1,600.00	5.35	249.66	1,595.99	-31.31	-84.45	-30.18	0.00	0.00	0.00
1,700.00	5.35	249.66	1,695.55	-34.55	-93.19	-33.31	0.00	0.00	0.00
1,800.00	5.35	249.66	1,795.12	-37.79	-101.92	-36.43	0.00	0.00	0.00
1,900.00	5.35	249.66	1,894.68	-41.02	-110.66	-39.55	0.00	0.00	0.00
2,000.00	5.35	249.66	1,994.25	-44.26	-119.40	-42.68	0.00	0.00	0.00
2,100.00	5.35	249.66	2,093.81	-47.50	-128.14	-45.80	0.00	0.00	0.00
2,200.00	5.35	249.66	2,193.38	-50.74	-136.88	-48.92	0.00	0.00	0.00
2,300.00	5.35	249.66	2,292.94	-53.98	-145.62	-52.05	0.00	0.00	0.00
2,400.00	5.35	249.66	2,392.51	-57.22	-154.35	-55.17	0.00	0.00	0.00
2,500.00	5.35	249.66	2,492.07	-60.46	-163.09	-58.29	0.00	0.00	0.00
2,600.00	5.35	249.66	2,591.64	-63.70	-171.83	-61.42	0.00	0.00	0.00
2,700.00	5.35	249.66	2,691.20	-66.94	-180.57	-64.54	0.00	0.00	0.00
2,800.00	5.35	249.66	2,790.77	-70.18	-189.31	-67.66	0.00	0.00	0.00
2,900.00	5.35	249.66	2,890.33	-73.42	-198.04	-70.79	0.00	0.00	0.00
3,000.00	5.35	249.66	2,989.90	-76.66	-206.78	-73.91	0.00	0.00	0.00
3,100.00	5.35	249.66	3,089.46	-79.90	-215.52	-77.03	0.00	0.00	0.00
3,200.00	5.35	249.66	3,189.03	-83.14	-224.26	-80.16	0.00	0.00	0.00
3,300.00	5.35	249.66	3,288.59	-86.38	-233.00	-83.28	0.00	0.00	0.00
3,400.00	5.35	249.66	3,388.15	-89.62	-241.74	-86.40	0.00	0.00	0.00
3,500.00	5.35	249.66	3,487.72	-92.86	-250.47	-89.53	0.00	0.00	0.00
3,600.00	5.35	249.66	3,587.28	-96.10	-259.21	-92.65	0.00	0.00	0.00
3,700.00	5.35	249.66	3,686.85	-99.34	-267.95	-95.77	0.00	0.00	0.00
3,800.00	5.35	249.66	3,786.41	-102.57	-276.69	-98.90	0.00	0.00	0.00
3,900.00	5.35	249.66	3,885.98	-105.81	-285.43	-102.02	0.00	0.00	0.00
4,000.00	5.35	249.66	3,985.54	-109.05	-294.17	-105.14	0.00	0.00	0.00
4,100.00	5.35	249.66	4,085.11	-112.29	-302.90	-108.27	0.00	0.00	0.00
4,200.00	5.35	249.66	4,184.67	-115.53	-311.64	-111.39	0.00	0.00	0.00
4,300.00	5.35	249.66	4,284.24	-118.77	-320.38	-114.51	0.00	0.00	0.00
4,400.00	5.35	249.66	4,383.80	-122.01	-329.12	-117.64	0.00	0.00	0.00
4,500.00	5.35	249.66	4,483.37	-125.25	-337.86	-120.76	0.00	0.00	0.00
4,600.00	5.35	249.66	4,582.93	-128.49	-346.60	-123.88	0.00	0.00	0.00
4,700.00	5.35	249.66	4,682.50	-131.73	-355.33	-127.01	0.00	0.00	0.00
4,800.00	5.35	249.66	4,782.06	-134.97	-364.07	-130.13	0.00	0.00	0.00
4,900.00	5.35	249.66	4,881.63	-138.21	-372.81	-133.25	0.00	0.00	0.00
5,000.00	5.35	249.66	4,981.19	-141.45	-381.55	-136.37	0.00	0.00	0.00
5,100.00	5.35	249.66	5,080.76	-144.69	-390.29	-139.50	0.00	0.00	0.00
5,200.00	5.35	249.66	5,180.32	-147.93	-399.02	-142.62	0.00	0.00	0.00
5,300.00	5.35	249.66	5,279.89	-151.17	-407.76	-145.74	0.00	0.00	0.00
5,400.00	5.35	249.66	5,379.45	-154.41	-416.50	-148.87	0.00	0.00	0.00

Phoenix Technology Services LP
Planning Report



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Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

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)
5,500.00	5.35	249.66	5,479.02	-157.65	-425.24	-151.99	0.00	0.00	0.00
5,600.00	5.35	249.66	5,578.58	-160.88	-433.98	-155.11	0.00	0.00	0.00
5,700.00	5.35	249.66	5,678.15	-164.12	-442.72	-158.24	0.00	0.00	0.00
5,800.00	5.35	249.66	5,777.71	-167.36	-451.45	-161.36	0.00	0.00	0.00
5,900.00	5.35	249.66	5,877.27	-170.60	-460.19	-164.48	0.00	0.00	0.00
6,000.00	5.35	249.66	5,976.84	-173.84	-468.93	-167.61	0.00	0.00	0.00
6,100.00	5.35	249.66	6,076.40	-177.08	-477.67	-170.73	0.00	0.00	0.00
6,200.00	5.35	249.66	6,175.97	-180.32	-486.41	-173.85	0.00	0.00	0.00
6,300.00	5.35	249.66	6,275.53	-183.56	-495.15	-176.98	0.00	0.00	0.00
6,400.00	5.35	249.66	6,375.10	-186.80	-503.88	-180.10	0.00	0.00	0.00
6,500.00	5.35	249.66	6,474.66	-190.04	-512.62	-183.22	0.00	0.00	0.00
6,600.00	5.35	249.66	6,574.23	-193.28	-521.36	-186.35	0.00	0.00	0.00
6,700.00	5.35	249.66	6,673.79	-196.52	-530.10	-189.47	0.00	0.00	0.00
6,800.00	5.35	249.66	6,773.36	-199.76	-538.84	-192.59	0.00	0.00	0.00
6,900.00	5.35	249.66	6,872.92	-203.00	-547.58	-195.72	0.00	0.00	0.00
7,000.00	5.35	249.66	6,972.49	-206.24	-556.31	-198.84	0.00	0.00	0.00
7,100.00	5.35	249.66	7,072.05	-209.48	-565.05	-201.96	0.00	0.00	0.00
7,200.00	5.35	249.66	7,171.62	-212.72	-573.79	-205.09	0.00	0.00	0.00
7,300.00	5.35	249.66	7,271.18	-215.96	-582.53	-208.21	0.00	0.00	0.00
7,400.00	5.35	249.66	7,370.75	-219.20	-591.27	-211.33	0.00	0.00	0.00
7,500.00	5.35	249.66	7,470.31	-222.43	-600.00	-214.46	0.00	0.00	0.00
7,600.00	5.35	249.66	7,569.88	-225.67	-608.74	-217.58	0.00	0.00	0.00
7,700.00	5.35	249.66	7,669.44	-228.91	-617.48	-220.70	0.00	0.00	0.00
7,800.00	5.35	249.66	7,769.01	-232.15	-626.22	-223.83	0.00	0.00	0.00
7,900.00	5.35	249.66	7,868.57	-235.39	-634.96	-226.95	0.00	0.00	0.00
8,000.00	5.35	249.66	7,968.14	-238.63	-643.70	-230.07	0.00	0.00	0.00
8,100.00	5.35	249.66	8,067.70	-241.87	-652.43	-233.20	0.00	0.00	0.00
8,200.00	5.35	249.66	8,167.27	-245.11	-661.17	-236.32	0.00	0.00	0.00
8,300.00	5.35	249.66	8,266.83	-248.35	-669.91	-239.44	0.00	0.00	0.00
8,400.00	5.35	249.66	8,366.39	-251.59	-678.65	-242.57	0.00	0.00	0.00
8,500.00	5.35	249.66	8,465.96	-254.83	-687.39	-245.69	0.00	0.00	0.00
8,600.00	5.35	249.66	8,565.52	-258.07	-696.13	-248.81	0.00	0.00	0.00
8,700.00	5.35	249.66	8,665.09	-261.31	-704.86	-251.94	0.00	0.00	0.00
8,800.00	5.35	249.66	8,764.65	-264.55	-713.60	-255.06	0.00	0.00	0.00
8,900.00	5.35	249.66	8,864.22	-267.79	-722.34	-258.18	0.00	0.00	0.00
9,000.00	5.35	249.66	8,963.78	-271.03	-731.08	-261.31	0.00	0.00	0.00
9,100.00	5.35	249.66	9,063.35	-274.27	-739.82	-264.43	0.00	0.00	0.00
9,192.61	5.35	249.66	9,155.56	-277.27	-747.91	-267.32	0.00	0.00	0.00
Begin 2.00°/100' Drop									
9,200.00	5.20	249.66	9,162.91	-277.50	-748.55	-267.55	2.00	-2.00	0.00
9,300.00	3.20	249.66	9,262.64	-280.05	-755.41	-270.00	2.00	-2.00	0.00
9,400.00	1.20	249.66	9,362.56	-281.38	-759.01	-271.29	2.00	-2.00	0.00
9,459.98	0.00	0.00	9,422.54	-281.60	-759.60	-271.50	2.00	-2.00	183.96
Begin Vertical Hold									
9,559.98	0.00	0.00	9,522.54	-281.60	-759.60	-271.50	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
9,600.00	4.80	0.51	9,562.51	-279.92	-759.58	-269.82	12.00	12.00	0.00
9,700.00	16.80	0.51	9,660.56	-261.22	-759.42	-251.12	12.00	12.00	0.00
9,800.00	28.80	0.51	9,752.58	-222.53	-759.07	-212.45	12.00	12.00	0.00
9,900.00	40.80	0.51	9,834.54	-165.57	-758.56	-155.49	12.00	12.00	0.00
10,000.00	52.80	0.51	9,902.87	-92.80	-757.91	-82.74	12.00	12.00	0.00
10,059.98	60.00	0.51	9,936.04	-42.88	-757.46	-32.83	12.00	12.00	0.00
7" Csg									

Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	OGX Operating LLC	TVD Reference:	GL + KB @ 2892.00usft (TBD)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00	64.80	0.51	9,954.57	-7.43	-757.14	2.62	12.00	12.00	0.00
10,200.00	76.80	0.51	9,987.39	86.84	-756.30	96.86	12.00	12.00	0.00
10,300.00	88.80	0.51	9,999.90	185.86	-755.41	195.87	12.00	12.00	0.00
10,309.98	90.00	0.51	10,000.01	195.84	-755.32	205.84	12.00	12.00	0.00
LP, Hold 90.00° Inc at 0.51° Azm									
10,400.00	90.00	0.51	10,000.00	285.86	-754.51	295.84	0.00	0.00	0.00
10,500.00	90.00	0.51	10,000.00	385.86	-753.62	395.82	0.00	0.00	0.00
10,600.00	90.00	0.51	10,000.00	485.85	-752.72	495.79	0.00	0.00	0.00
10,700.00	90.00	0.51	10,000.00	585.85	-751.82	595.77	0.00	0.00	0.00
10,800.00	90.00	0.51	10,000.00	685.84	-750.93	695.74	0.00	0.00	0.00
10,900.00	90.00	0.51	10,000.00	785.84	-750.03	795.72	0.00	0.00	0.00
11,000.00	90.00	0.51	10,000.00	885.84	-749.13	895.69	0.00	0.00	0.00
11,100.00	90.00	0.51	10,000.00	985.83	-748.24	995.67	0.00	0.00	0.00
11,200.00	90.00	0.51	10,000.00	1,085.83	-747.34	1,095.64	0.00	0.00	0.00
11,300.00	90.00	0.51	10,000.00	1,185.82	-746.44	1,195.62	0.00	0.00	0.00
11,400.00	90.00	0.51	10,000.00	1,285.82	-745.55	1,295.59	0.00	0.00	0.00
11,500.00	90.00	0.51	10,000.00	1,385.81	-744.65	1,395.57	0.00	0.00	0.00
11,600.00	90.00	0.51	10,000.00	1,485.81	-743.75	1,495.55	0.00	0.00	0.00
11,700.00	90.00	0.51	10,000.00	1,585.81	-742.86	1,595.52	0.00	0.00	0.00
11,800.00	90.00	0.51	10,000.00	1,685.80	-741.96	1,695.50	0.00	0.00	0.00
11,900.00	90.00	0.51	10,000.00	1,785.80	-741.06	1,795.47	0.00	0.00	0.00
12,000.00	90.00	0.51	10,000.00	1,885.79	-740.17	1,895.45	0.00	0.00	0.00
12,100.00	90.00	0.51	10,000.00	1,985.79	-739.27	1,995.42	0.00	0.00	0.00
12,200.00	90.00	0.51	10,000.00	2,085.79	-738.37	2,095.40	0.00	0.00	0.00
12,300.00	90.00	0.51	10,000.00	2,185.78	-737.48	2,195.37	0.00	0.00	0.00
12,400.00	90.00	0.51	10,000.00	2,285.78	-736.58	2,295.35	0.00	0.00	0.00
12,500.00	90.00	0.51	10,000.00	2,385.77	-735.68	2,395.32	0.00	0.00	0.00
12,600.00	90.00	0.51	10,000.00	2,485.77	-734.79	2,495.30	0.00	0.00	0.00
12,700.00	90.00	0.51	10,000.00	2,585.77	-733.89	2,595.27	0.00	0.00	0.00
12,800.00	90.00	0.51	10,000.00	2,685.76	-732.99	2,695.25	0.00	0.00	0.00
12,900.00	90.00	0.51	10,000.00	2,785.76	-732.10	2,795.22	0.00	0.00	0.00
13,000.00	90.00	0.51	10,000.00	2,885.75	-731.20	2,895.20	0.00	0.00	0.00
13,100.00	90.00	0.51	10,000.00	2,985.75	-730.30	2,995.17	0.00	0.00	0.00
13,200.00	90.00	0.51	10,000.00	3,085.75	-729.41	3,095.15	0.00	0.00	0.00
13,300.00	90.00	0.51	10,000.00	3,185.74	-728.51	3,195.13	0.00	0.00	0.00
13,400.00	90.00	0.51	10,000.00	3,285.74	-727.61	3,295.10	0.00	0.00	0.00
13,500.00	90.00	0.51	10,000.00	3,385.73	-726.72	3,395.08	0.00	0.00	0.00
13,600.00	90.00	0.51	10,000.00	3,485.73	-725.82	3,495.05	0.00	0.00	0.00
13,700.00	90.00	0.51	10,000.00	3,585.73	-724.92	3,595.03	0.00	0.00	0.00
13,800.00	90.00	0.51	10,000.00	3,685.72	-724.03	3,695.00	0.00	0.00	0.00
13,900.00	90.00	0.51	10,000.00	3,785.72	-723.13	3,794.98	0.00	0.00	0.00
14,000.00	90.00	0.51	10,000.00	3,885.71	-722.23	3,894.95	0.00	0.00	0.00
14,100.00	90.00	0.51	10,000.00	3,985.71	-721.34	3,994.93	0.00	0.00	0.00
14,200.00	90.00	0.51	10,000.00	4,085.71	-720.44	4,094.90	0.00	0.00	0.00
14,300.00	90.00	0.51	10,000.00	4,185.70	-719.54	4,194.88	0.00	0.00	0.00
14,400.00	90.00	0.51	10,000.00	4,285.70	-718.65	4,294.85	0.00	0.00	0.00
14,500.00	90.00	0.51	10,000.00	4,385.69	-717.75	4,394.83	0.00	0.00	0.00
14,600.00	90.00	0.51	10,000.00	4,485.69	-716.85	4,494.80	0.00	0.00	0.00
14,700.00	90.00	0.51	10,000.00	4,585.69	-715.96	4,594.78	0.00	0.00	0.00
14,800.00	90.00	0.51	10,000.00	4,685.68	-715.06	4,694.75	0.00	0.00	0.00
14,900.00	90.00	0.51	10,000.00	4,785.68	-714.16	4,794.73	0.00	0.00	0.00
15,000.00	90.00	0.51	10,000.00	4,885.67	-713.27	4,894.71	0.00	0.00	0.00
15,100.00	90.00	0.51	10,000.00	4,985.67	-712.37	4,994.68	0.00	0.00	0.00
15,200.00	90.00	0.51	10,000.00	5,085.67	-711.47	5,094.66	0.00	0.00	0.00

Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	OGX Operating LLC	TVD Reference:	GL + KB @ 2892.00usft (TBD)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

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)
15,300.00	90.00	0.51	10,000.00	5,185.66	-710.58	5,194.63	0.00	0.00	0.00
15,400.00	90.00	0.51	10,000.00	5,285.66	-709.68	5,294.61	0.00	0.00	0.00
15,500.00	90.00	0.51	10,000.00	5,385.65	-708.78	5,394.58	0.00	0.00	0.00
15,600.00	90.00	0.51	10,000.00	5,485.65	-707.89	5,494.56	0.00	0.00	0.00
15,700.00	90.00	0.51	10,000.00	5,585.65	-706.99	5,594.53	0.00	0.00	0.00
15,800.00	90.00	0.51	10,000.00	5,685.64	-706.09	5,694.51	0.00	0.00	0.00
15,900.00	90.00	0.51	10,000.00	5,785.64	-705.20	5,794.48	0.00	0.00	0.00
16,000.00	90.00	0.51	10,000.00	5,885.63	-704.30	5,894.46	0.00	0.00	0.00
16,100.00	90.00	0.51	10,000.00	5,985.63	-703.40	5,994.43	0.00	0.00	0.00
16,200.00	90.00	0.51	10,000.00	6,085.63	-702.51	6,094.41	0.00	0.00	0.00
16,300.00	90.00	0.51	10,000.00	6,185.62	-701.61	6,194.38	0.00	0.00	0.00
16,400.00	90.00	0.51	10,000.00	6,285.62	-700.71	6,294.36	0.00	0.00	0.00
16,500.00	90.00	0.51	10,000.00	6,385.61	-699.82	6,394.33	0.00	0.00	0.00
16,600.00	90.00	0.51	10,000.00	6,485.61	-698.92	6,494.31	0.00	0.00	0.00
16,700.00	90.00	0.51	10,000.00	6,585.61	-698.02	6,594.29	0.00	0.00	0.00
16,800.00	90.00	0.51	10,000.00	6,685.60	-697.13	6,694.26	0.00	0.00	0.00
16,900.00	90.00	0.51	10,000.00	6,785.60	-696.23	6,794.24	0.00	0.00	0.00
17,000.00	90.00	0.51	10,000.00	6,885.59	-695.33	6,894.21	0.00	0.00	0.00
17,093.11	90.00	0.51	10,000.00	6,978.70	-694.50	6,987.30	0.00	0.00	0.00

TD at 17093.11

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP - Littlefield 33 Fed C - plan hits target center - Point	0.00	0.00	9,522.54	-281.60	-759.60	364,008.00	647,536.40	32° 0' 0.99179 N	103° 59' 26.67453 W
PP - Littlefield 33 Fed C - plan misses target center by 39.30usft at 10120.47usft MD (9962.89 TVD, 11.28 N, -756.97 E) - Point	0.00	0.01	10,000.00	-1.60	-758.10	364,288.00	647,537.90	32° 0' 3.76269 N	103° 59' 26.64681 W
BHL - Littlefield 33 Fed C - plan hits target center - Point	0.00	0.00	10,000.00	6,978.70	-694.50	371,268.30	647,601.50	32° 1' 12.83929 N	103° 59' 25.65106 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
10,059.98	9,936.04	7" Csg	7	7-1/2

Phoenix Technology Services LP
Planning Report



Database:	Compass 5000 GCR	Local Co-ordinate Reference:	Well 2H
Company:	OGX Operating LLC	TVD Reference:	GL + KB @ 2892.00usft (TBD)
Project:	Eddy County, New Mexico (NAD83)	MD Reference:	GL + KB @ 2892.00usft (TBD)
Site:	Littlefield 33 Fed Com	North Reference:	Grid
Well:	2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 3 10-04-16		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	KOP1, Begin 2.00°/100' Build
767.37	766.98	-4.33	-11.69	Hold 5.35° Inc at 249.66° Azm
9,192.61	9,155.56	-277.27	-747.91	Begin 2.00°/100' Drop
9,459.98	9,422.54	-281.60	-759.60	Begin Vertical Hold
9,559.98	9,522.54	-281.60	-759.60	KOP2, Begin 12.00°/100' Build
10,309.98	10,000.01	195.84	-755.32	LP, Hold 90.00° Inc at 0.51° Azm
17,093.11	10,000.00	6,978.70	-694.50	TD at 17093.11