

Sam Gary & Associates

Location Kansas Installation Trego County
Field Sec 20 - 11S - 21W Well 11-21-29-H1

Installation Data

Name	Latitude	Longitude	Northing	Easting		
Trego County	N39 4 25.78	W99 41 7.83	274142.00	1521499.00		
Coordinate System						
Kansas State Planes, Northern Zone						
Slot Data						
Name	North [ft]	East [ft]	Latitude	Longitude	Northing	Easting
11-21-29-H1	668.03 N	1123.05 E	N39 4 32.59	W99 40 53.75	274810.00	1522622.00
Elevation Data						
Slot - Mean Sea Level [ft]	Mean Sea Level - Mudline/Ground level [ft]	Slot - Mudline/Ground level [ft]				
0.00	0.00	0.00				

WELL PROFILE DATA

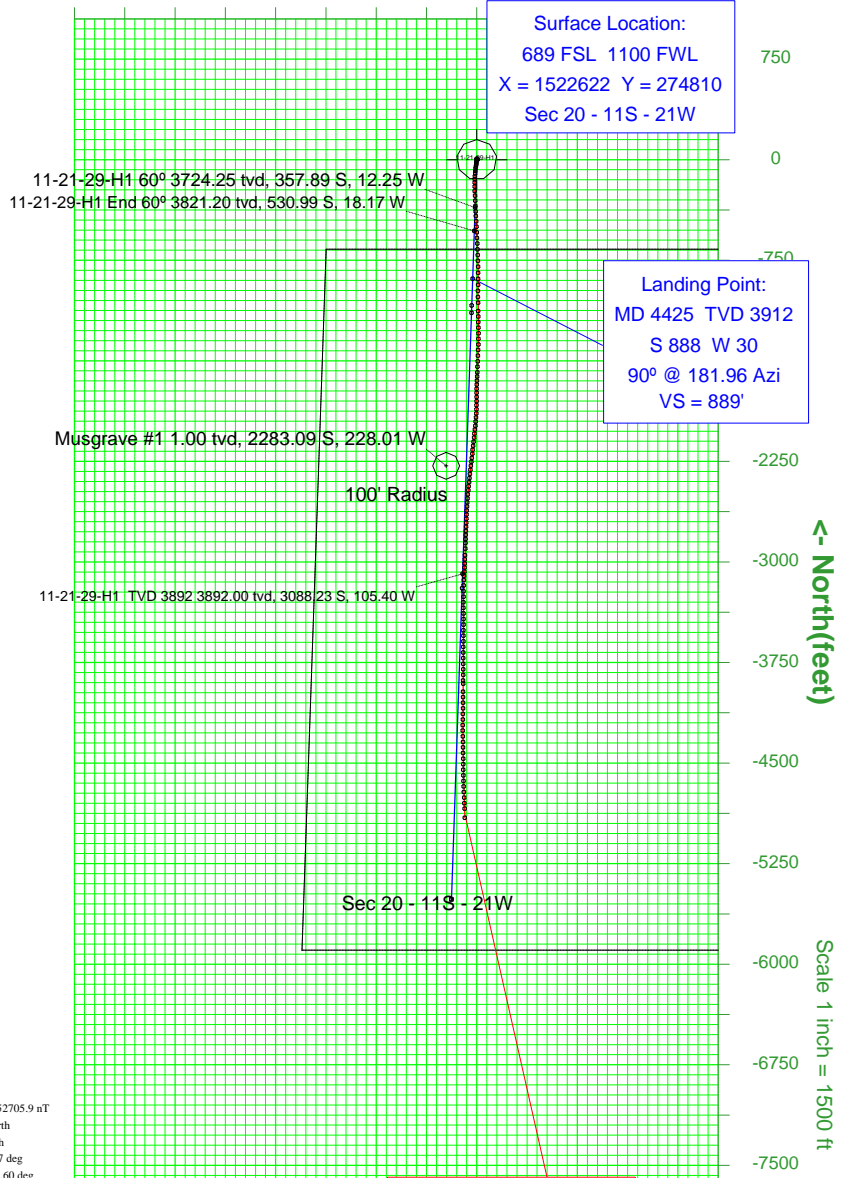
Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on KOP	3104.00	0.00	0.00	3104.00	0.00	0.00	0.00	-0.00
Target 11-21-29-H1 60°	3854.00	60.00	181.96	3724.25	-357.89	-12.25	8.00	358.10
Target 11-21-29-H1 End	4052.50	61.52	181.96	3821.20	-530.99	-18.17	0.77	531.30
Target 11-21-29-H1 LP	4425.04	89.96	181.96	3912.00	-888.15	-30.39	7.63	888.67
Target 11-21-29-H1 CP	4625.03	90.04	181.96	3912.00	-1088.03	-37.23	0.04	1088.67
End of Build/Turn	4679.42	90.58	181.95	3911.71	-1142.38	-39.09	1.00	1143.05
Target 11-21-29-H1 TV	6626.50	90.58	181.95	3892.00	-3088.23	-105.40	0.00	3090.03
End of Drop/Turn	6734.03	89.50	181.97	3891.92	-3195.70	-109.08	1.00	3197.56
T.D. & Target 11-21-29-	9057.02	89.50	181.97	3912.00	-5517.22	-189.01	0.00	5520.46

TARGET DATA

MD	Inc	Azi	TVD	North	East	Name	Position
-	-	-	1.00	-2283.09	-228.01	Musgrave #1	1522394.00 East : 272527.00 North
3854.00	60.00	181.96	3724.25	-357.89	-12.25	11-21-29-H1 60°	1522609.75 East : 274452.12 North
4052.50	61.52	181.96	3821.20	-530.99	-18.17	11-21-29-H1 End 60°	1522603.83 East : 274279.03 North
6626.50	90.58	181.95	3892.00	-3088.23	-105.40	11-21-29-H1 TVD 3892	1522516.60 East : 271721.90 North
4425.04	89.96	181.96	3912.00	-888.15	-30.39	11-21-29-H1 LP	1522591.61 East : 273921.89 North
4625.03	90.04	181.96	3912.00	-1088.03	-37.23	11-21-29-H1 CP	1522584.77 East : 273722.01 North
9057.02	89.50	181.97	3912.00	-5517.22	-189.01	11-21-29-H1 BHL	1522433.00 East : 269293.00 North

East (feet) ->

-3000 -2250 -1500 -750 0 750 1500
Scale 1 inch = 1500 ft



Surface Location:
689 FSL 1100 FWL
X = 1522622 Y = 274810
Sec 20 - 11S - 21W

Landing Point:
MD 4425 TVD 3912
S 888 W 30
90° @ 181.96 Azi
VS = 889'

Sec 20 - 11S - 21W

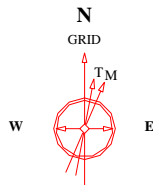
North (feet)

Scale 1 inch = 1500 ft



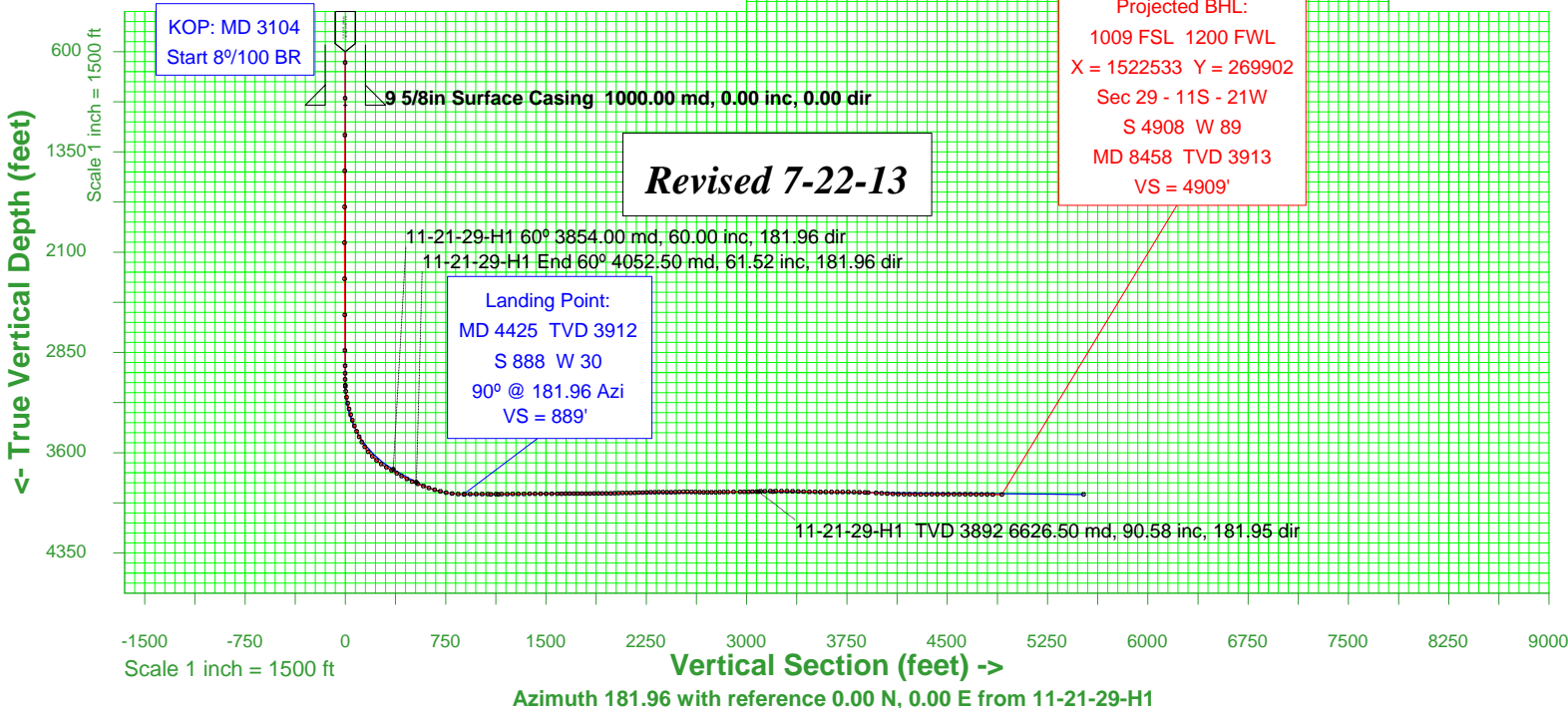
9630 Pole Rd.
Oklahoma City, OK 73160
Tel: (405) 604-2969

Plan 2
TVD 3912



Created by admin
Date plotted 5-Aug-2013
Plot reference is 11-21-29-H1 (Revised Plan TVD 3912).
Ref wellpath is 11-21-29-H1 (PWP#1).
Coordinates are in feet reference 11-21-29-H1.
True Vertical Depths are reference 11-21-29-H1.
Measured Depths are reference Slot.
Plot North is aligned to GRID North.

12-Jul-2013
IGRF Model [1900.0-2015.0] Dip: 66.64 deg Field: 52705.9 nT
Magnetic North is 5.53 deg East of True North
GRID North is 1.07 deg West of True North
To correct azimuth from True to GRID add 1.07 deg
To correct azimuth from Magnetic to GRID add 6.60 deg



KOP: MD 3104
Start 8°/100 BR

9 5/8in Surface Casing 1000.00 md, 0.00 inc, 0.00 dir

Revised 7-22-13

11-21-29-H1 60° 3854.00 md, 60.00 inc, 181.96 dir
11-21-29-H1 End 60° 4052.50 md, 61.52 inc, 181.96 dir

Landing Point:
MD 4425 TVD 3912
S 888 W 30
90° @ 181.96 Azi
VS = 889'

Projected BHL:
1009 FSL 1200 FWL
X = 1522533 Y = 269902
Sec 29 - 11S - 21W
S 4908 W 89
MD 8458 TVD 3913
VS = 4909'

11-21-29-H1 TVD 3892 6626.50 md, 90.58 inc, 181.95 dir

-1500 -750 0 750 1500 2250 3000 3750 4500 5250 6000 6750 7500 8250 9000
Scale 1 inch = 1500 ft

Vertical Section (feet) ->

Azimuth 181.96 with reference 0.00 N, 0.00 E from 11-21-29-H1