

HOBBS OCD
APR 10 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Convoy 28 State Com

#705H

OH

Design: OH

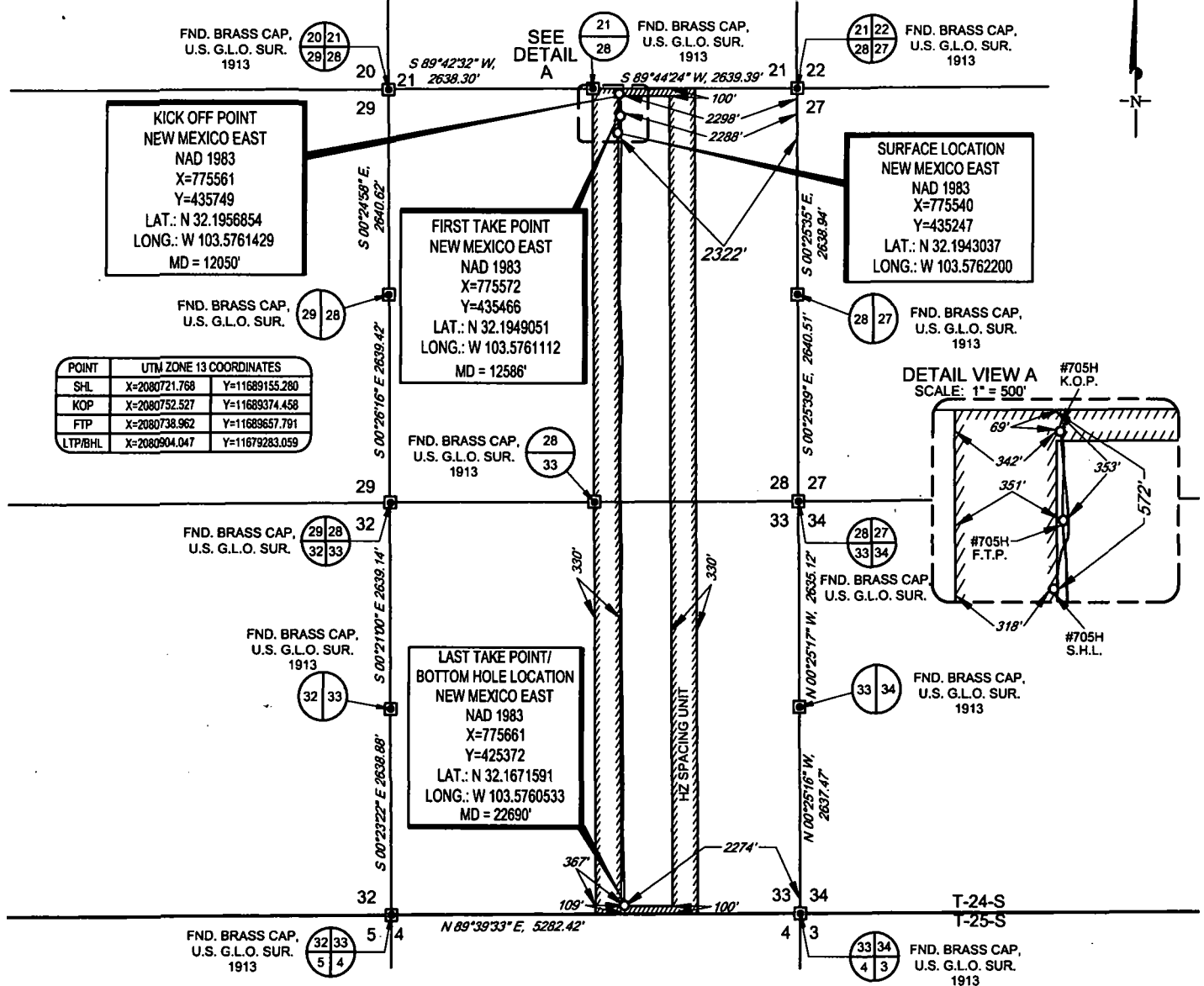
Midland PVA

21 January, 2019

SCALE: 1" = 2000'

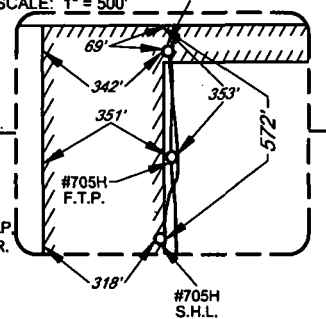
0' 1000' 2000'

SECTION 28, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES
SHL	X=2080721.768 Y=11689155.280
KOP	X=2080752.527 Y=11689374.458
FTP	X=2080738.962 Y=11689657.791
LTP/BHL	X=2080904.047 Y=11679283.059

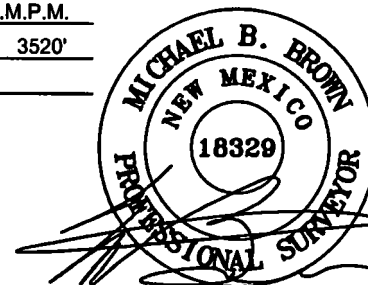
DETAIL VIEW A
SCALE: 1" = 500'



LEASE NAME & WELL NO.: CONVOY 28 STATE COM #705H
SECTION 28 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3520'
DESCRIPTION 572' FNL & 2322' FWL

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2803 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
MARCH 14, 2019

egog resources, Inc.

CONVOY 28 STATE COM
#705H
AS-DRILLED

REVISION:

DATE: 03/13/2019

FILE: AD_CONVOY_28_STATE_COM_705H

DRAWN BY: JLS

SHEET: 1 OF 1

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #705H	
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3545.0usft	
Site:	Convoy 28 State Com			MD Reference:	KB = 25 @ 3545.0usft	
Well:	#705H			North Reference:	Grid	
Wellbore:	OH			Survey Calculation Method:	Minimum Curvature	
Design:	OH			Database:	EDM 5000.14	
Project Lea County, NM (NAD 83 NME)						
Map System:	US State Plane 1983			System Datum:	Mean Sea Level	
Geo Datum:	North American Datum 1983					
Map Zone:	New Mexico Eastern Zone					
Site Convoy 28 State Com						
Site Position:		Northing:	435,221.00 usft	Latitude:	32° 11' 39.126 N	
From:	Map	Easting:	777,172.00 usft	Longitude:	103° 34' 34.408 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °	
Well #705H						
Well Position	+N-S	0.0 usft	Northing:	435,247.00 usft	Latitude:	32° 11' 39.488 N
	+E-W	0.0 usft	Easting:	775,540.00 usft	Longitude:	103° 34' 34.395 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,520.0 usft
Wellbore OH						
Magnetics						
	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	11/30/2017	6.90	80.03	47,872.84380256	
Design OH						
Audit Notes:						
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction		
	(usft)	(usft)	(usft)	(°)		
	0.0	0.0	0.0	178.41		



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Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	1/21/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
157.0	5,045.0	M3P MWD 14' KB + 11' (OH)	MWD	OWSG MWD - Standard	
5,117.0	22,692.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
157.0	1.10	27.70	157.0	1.3	0.7	0.70	0.70	0.00	0.0	0.0
335.0	0.70	49.40	335.0	3.6	2.3	0.29	-0.22	12.19	0.0	0.0
512.0	0.50	54.50	512.0	4.7	3.8	0.12	-0.11	2.88	0.0	0.0
659.0	0.50	99.00	659.0	5.0	4.9	0.28	0.00	30.27	0.0	0.0
769.0	0.90	111.20	769.9	4.8	6.2	0.39	0.36	11.09	0.0	0.0
960.0	0.20	84.60	959.9	4.1	7.9	0.38	-0.37	-13.93	0.0	0.0
1,148.0	0.30	174.70	1,145.9	3.6	8.3	0.19	0.05	48.44	0.0	0.0
1,339.0	0.30	336.90	1,338.9	3.6	8.2	0.31	0.00	84.04	0.0	0.0
1,530.0	0.40	14.80	1,529.9	4.7	8.1	0.13	0.05	19.84	0.0	0.0
1,720.0	0.50	68.70	1,719.9	5.6	9.1	0.22	0.05	28.37	0.0	0.0
1,910.0	0.80	18.90	1,909.9	6.9	10.2	0.25	0.05	-26.21	0.0	0.0
2,100.0	0.70	25.40	2,099.9	8.9	11.0	0.07	0.05	3.42	0.0	0.0
2,290.0	0.90	41.70	2,289.9	11.0	12.5	0.18	0.11	8.58	0.0	0.0
2,480.0	0.80	29.60	2,479.9	13.3	14.1	0.11	-0.05	-6.37	0.0	0.0
2,670.0	0.80	17.50	2,669.9	15.7	15.2	0.09	0.00	-6.37	0.0	0.0
2,765.0	1.40	347.20	2,764.8	17.5	15.1	0.86	0.63	-31.89	0.0	0.0
2,860.0	2.40	353.40	2,859.8	20.8	14.6	1.07	1.05	6.53	0.0	0.0
2,955.0	2.70	348.50	2,954.7	24.8	14.0	0.39	0.32	-5.16	0.0	0.0
3,050.0	3.40	351.70	3,049.5	29.7	13.1	0.76	0.74	3.37	0.0	0.0
3,145.0	4.40	0.30	3,144.3	36.2	12.7	1.22	1.05	9.05	0.0	0.0



Midland PVA

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 Site: Convoy 28 State Com
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3545.0usft
 MD Reference: KB = 25 @ 3545.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)		
3,240.0	4.40	2.30	3,239.0	43.5	12.9	0.18	0.00	2.11	0.0	0.0		
3,335.0	4.40	2.70	3,333.8	50.7	13.2	0.03	0.00	0.42	0.0	0.0		
3,430.0	4.50	5.20	3,428.5	58.1	13.7	0.23	0.11	2.83	0.0	0.0		
3,525.0	4.40	7.40	3,523.2	65.4	14.5	0.21	-0.11	2.32	0.0	0.0		
3,620.0	4.10	6.50	3,617.9	72.4	15.4	0.32	-0.32	-0.95	0.0	0.0		
3,715.0	4.40	14.50	3,712.7	79.3	16.7	0.70	0.32	8.42	0.0	0.0		
3,810.0	4.30	11.30	3,807.4	86.3	18.3	0.28	-0.11	-3.37	0.0	0.0		
3,905.0	4.00	12.10	3,902.2	93.1	19.7	0.32	-0.32	0.84	0.0	0.0		
4,000.0	3.90	13.20	3,998.9	99.4	21.1	0.13	-0.11	1.16	0.0	0.0		
4,095.0	4.00	14.30	4,091.7	105.8	22.7	0.13	0.11	1.16	0.0	0.0		
4,180.0	3.80	15.20	4,186.5	111.9	24.3	0.43	-0.42	0.85	0.0	0.0		
4,265.0	3.80	14.80	4,281.3	117.8	25.8	0.21	0.21	-0.42	0.0	0.0		
4,381.0	3.70	23.80	4,377.1	123.7	27.9	0.82	-0.10	9.37	0.0	0.0		
4,476.0	4.30	22.80	4,471.9	129.8	30.5	0.64	0.63	-1.05	0.0	0.0		
4,571.0	4.10	23.40	4,566.6	136.2	33.3	0.22	-0.21	0.83	0.0	0.0		
4,666.0	4.40	33.00	4,661.3	142.4	36.8	0.81	0.32	10.11	0.0	0.0		
4,761.0	4.40	34.90	4,756.1	148.4	40.7	0.15	0.00	2.00	0.0	0.0		
4,856.0	3.60	32.50	4,850.8	153.9	44.3	0.86	-0.84	-2.53	0.0	0.0		
4,951.0	3.80	23.70	4,945.6	159.3	47.2	0.63	0.21	-9.28	0.0	0.0		
5,045.0	4.00	7.60	5,039.4	165.4	48.9	1.18	0.21	-17.13	0.0	0.0		
5,117.0	4.31	4.63	5,111.2	170.6	49.4	0.63	0.43	-4.26	-0.2	0.1		
5,211.0	6.51	0.14	5,204.8	179.6	49.7	2.38	2.34	-4.67	-1.8	0.5		
5,306.0	8.71	0.23	5,299.0	192.0	49.8	2.32	2.32	0.09	-4.2	0.6		
5,400.0	8.97	359.78	5,391.8	206.5	49.8	0.29	0.28	-0.47	-5.5	0.0		
5,485.0	10.02	358.03	5,485.5	222.2	48.5	1.15	1.11	-1.85	-4.9	-1.0		
5,589.0	10.90	355.66	5,578.0	239.2	48.5	1.04	0.94	-2.52	-5.1	-1.7		
5,684.0	10.55	355.31	5,671.3	256.8	47.1	0.37	-0.37	-0.37	-5.7	-1.7		



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Well:	#705H					North Reference:		Grid			
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Design:	OH					Database:		EDM 5000.14			
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,778.0	10.38	354.69	5,763.8	273.8	45.6	0.22	-0.18	-0.66	-5.8	-1.7	
5,873.0	10.55	353.02	5,857.2	291.0	43.8	0.37	0.18	-1.76	-6.0	-1.4	
5,968.0	10.38	353.20	5,950.6	308.1	41.7	0.16	-0.18	0.19	-6.2	-0.7	
6,062.0	10.11	352.23	6,043.1	324.7	39.6	0.34	-0.29	-1.03	-6.0	0.0	
6,157.0	9.58	351.70	6,136.7	340.8	37.3	0.57	-0.56	-0.56	-5.2	0.9	
6,251.0	10.90	355.22	6,229.2	357.4	35.5	1.55	1.40	3.74	-4.9	1.6	
6,346.0	11.17	356.16	6,322.4	375.6	34.1	0.34	0.28	1.01	-6.0	1.8	
6,440.0	10.82	355.82	6,414.7	393.4	32.9	0.38	-0.37	-0.28	-7.1	1.5	
6,535.0	10.90	355.22	6,508.0	411.2	31.5	0.16	0.08	-0.74	-6.0	1.4	
6,629.0	11.17	354.34	6,600.3	429.2	29.8	0.34	0.29	-0.94	-9.1	1.4	
6,724.0	10.90	353.64	6,693.5	447.2	27.9	0.32	-0.28	-0.74	-10.3	1.7	
6,819.0	9.41	358.29	6,787.0	463.9	26.7	1.79	-1.57	4.89	-8.7	2.4	
6,913.0	7.83	3.66	6,880.0	478.0	26.9	1.88	-1.66	5.71	-6.8	1.6	
7,008.0	5.88	5.85	6,974.3	489.4	27.8	1.97	-1.95	2.31	-2.3	-0.6	
7,102.0	5.80	6.91	7,067.8	499.0	28.9	0.22	-0.19	1.13	0.7	-3.3	
7,196.0	4.31	11.13	7,161.4	507.1	30.1	1.63	-1.59	4.49	1.7	-5.7	
7,291.0	4.13	12.09	7,256.2	514.0	31.5	0.20	-0.19	1.01	1.1	-7.6	
7,386.0	3.17	16.56	7,351.0	519.9	33.0	1.05	-1.01	4.73	-2.1	-6.7	
7,481.0	1.58	352.67	7,445.9	523.7	33.6	1.94	-1.67	-25.17	-1.4	-6.9	
7,576.0	1.49	353.81	7,540.8	526.2	33.3	0.10	-0.09	1.20	-4.2	-6.8	
7,670.0	0.09	201.76	7,634.8	527.3	33.1	1.67	-1.49	-161.76	9.3	8.1	
7,765.0	0.53	167.57	7,729.8	526.9	33.2	0.48	0.46	-35.99	3.7	10.2	
7,860.0	0.97	207.56	7,824.8	525.7	32.9	0.69	0.46	42.09	6.3	5.7	
7,954.0	0.97	184.89	7,918.8	524.2	32.5	0.41	0.00	-24.12	3.9	6.2	
8,049.0	0.97	178.73	8,013.8	522.6	32.4	0.11	0.00	-6.46	1.4	8.5	
8,144.0	1.23	159.57	8,108.8	520.8	32.8	0.47	0.27	-20.17	-3.2	8.2	
8,238.0	1.06	160.28	8,202.8	519.1	33.5	0.18	-0.18	0.76	-5.0	8.3	



Midland PVA

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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8,333.0	1.06	168.36	8,297.7	517.4	33.9	0.16	0.00	6.51	-5.5	9.0	
8,428.0	1.06	161.42	8,392.7	515.7	34.4	0.14	0.00	-7.31	-8.3	8.2	
8,523.0	0.53	17.01	8,487.7	515.3	34.8	1.60	-0.56	-152.01	2.3	-12.0	
8,618.0	0.53	343.97	8,582.7	516.1	34.8	0.32	0.00	-34.78	7.7	-8.0	
8,712.0	0.53	329.82	8,676.7	516.9	34.5	0.14	0.00	-15.05	8.8	-7.0	
8,807.0	0.44	319.97	8,771.7	517.6	34.0	0.13	-0.09	-10.37	9.1	-5.5	
8,902.0	0.44	285.26	8,866.7	518.0	33.4	0.28	0.00	-36.54	9.9	0.5	
8,997.0	0.35	284.62	8,961.7	518.1	32.8	0.09	-0.09	-0.46	9.2	0.5	
9,091.0	0.28	270.23	9,055.7	518.2	32.3	0.13	-0.10	-15.52	8.3	2.8	
9,186.0	0.44	238.67	9,150.7	518.0	31.8	0.27	0.19	-33.22	5.1	6.6	
9,280.0	0.53	266.27	9,244.7	517.6	31.0	0.26	0.10	29.36	6.8	3.7	
9,375.0	0.53	254.14	9,339.7	517.6	30.2	0.12	0.00	-12.77	5.0	4.9	
9,469.0	0.44	252.47	9,433.7	517.4	29.4	0.10	-0.10	-1.78	4.1	5.0	
9,564.0	0.70	238.41	9,528.7	517.0	28.6	0.31	0.27	-14.80	1.8	5.8	
9,659.0	0.62	237.27	9,623.7	516.4	27.6	0.09	-0.08	-1.20	0.6	5.8	
9,753.0	0.70	187.79	9,717.7	515.6	27.1	0.59	0.09	-52.64	-4.9	3.8	
9,848.0	0.79	144.02	9,812.7	514.5	27.4	0.59	0.09	-48.07	-7.3	-1.1	
9,942.0	1.14	156.15	9,906.7	513.1	28.2	0.43	0.37	12.90	-8.9	0.6	
10,037.0	1.56	169.68	10,001.6	510.9	28.8	0.57	0.46	14.24	-10.8	2.9	
10,131.0	0.97	207.74	10,085.6	509.0	28.7	1.08	-0.65	40.49	-8.5	9.7	
10,226.0	0.79	204.66	10,190.6	507.7	28.0	0.20	-0.19	-3.24	-10.4	9.2	
10,321.0	0.35	163.70	10,285.6	506.8	27.8	0.60	-0.46	-43.12	-14.7	-0.3	
10,415.0	0.53	268.97	10,379.6	506.7	27.5	0.87	0.19	143.90	10.0	10.8	
10,510.0	1.58	272.07	10,474.6	507.0	25.8	1.19	1.11	-28.32	2.3	13.9	
10,604.0	1.67	283.41	10,568.5	507.3	23.2	0.35	0.10	12.08	2.4	13.5	
10,699.0	1.67	291.85	10,663.5	508.2	20.6	0.26	0.00	8.88	1.6	13.2	
10,793.0	1.06	286.58	10,757.5	508.9	18.5	0.66	-0.65	-5.61	-1.9	13.1	



Midland PVA

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Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3545.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,688.0	0.62	302.22	10,852.5	509.5	17.2	0.52	-0.46	16.46	0.4	13.4
10,683.0	0.53	285.31	10,847.5	509.7	16.3	0.39	-0.09	-36.85	-8.6	10.6
11,077.0	0.70	272.42	11,041.4	509.7	15.3	0.20	0.18	7.56	-8.2	11.7
11,172.0	0.18	308.28	11,136.4	509.8	14.6	0.59	-0.55	37.75	-0.4	14.6
11,266.0	0.26	32.22	11,230.4	510.1	14.6	0.32	0.09	89.30	14.2	2.1
11,361.0	0.88	45.32	11,325.4	510.8	15.3	0.66	0.65	13.79	13.4	-1.1
11,456.0	0.62	300.99	11,420.4	511.6	15.3	1.26	-0.27	-109.82	-2.6	12.6
11,551.0	0.62	338.17	11,515.4	512.3	14.7	0.42	0.00	39.14	4.6	11.9
11,645.0	0.70	347.48	11,609.4	513.3	14.4	0.14	0.09	9.90	5.4	11.0
11,740.0	0.26	297.47	11,704.4	514.0	14.1	0.60	-0.46	-52.64	-5.6	10.8
11,796.0	0.70	177.24	11,760.4	513.7	14.0	1.54	0.79	-214.70	-8.6	-10.4
11,871.0	2.11	153.25	11,835.4	512.0	14.6	2.00	1.88	-31.99	-3.8	-12.4
11,966.0	3.43	142.17	11,930.3	508.2	17.1	1.49	1.39	-11.66	-5.9	-13.3
12,050.0	5.13	154.42	12,014.0	502.6	20.3	2.28	2.02	-14.58	-13.9	-10.8
KOP 12050.0' MD; 12014.0' TVD; 502.6'; 20.3'; 5.13										
12,061.0	5.36	155.44	12,025.0	501.9	20.7	2.28	2.12	9.27	-14.4	-10.1
12,155.0	17.32	166.52	12,117.0	484.3	25.8	12.87	12.72	11.79	-17.2	-2.2
12,196.3	21.05	169.45	12,156.0	471.0	28.6	9.31	9.02	7.11	-17.4	1.4
FTP Crossing 12196.3' MD; 12156.0' TVD; 471.0'; 28.6'; 21.05										
12,250.0	25.94	172.05	12,205.2	449.9	32.0	9.31	9.12	4.83	-15.9	5.7
12,345.0	35.35	181.48	12,286.9	401.7	34.2	11.09	9.91	9.91	-8.5	9.6
12,439.0	46.25	181.99	12,358.0	340.4	32.3	11.60	11.60	0.56	-0.2	7.0
12,534.0	56.10	180.76	12,417.5	286.5	30.6	10.42	10.37	-1.29	9.5	4.7
12,629.0	72.61	175.92	12,458.3	181.2	33.3	18.17	17.59	-5.09	15.8	7.1
12,676.0	82.13	173.90	12,468.5	135.5	37.4	20.27	19.83	-4.30	15.0	10.8
12,724.0	88.64	176.27	12,472.4	87.9	41.5	14.43	13.56	4.94	12.3	14.3
12,819.0	89.52	179.35	12,473.9	-7.0	45.1	3.37	0.93	3.24	11.8	17.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3545.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3545.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,913.0	91.36	179.00	12,473.2	-101.0	46.5	1.99	1.96	-0.37	11.2	17.9	
13,008.0	89.69	180.84	12,472.3	-196.0	46.8	2.62	-1.78	1.94	10.3	17.3	
13,103.0	90.31	181.81	12,472.3	-291.0	44.4	1.21	0.65	1.02	10.3	14.4	
13,198.0	90.13	180.32	12,471.9	-388.0	42.7	1.58	-0.19	-1.57	10.0	11.9	
13,283.0	88.72	179.70	12,472.9	-481.0	42.6	1.62	-1.48	-0.65	10.9	11.2	
13,368.0	91.54	180.40	12,472.7	-575.9	42.6	3.06	2.97	0.74	10.7	10.4	
13,478.0	90.75	179.44	12,470.9	-665.9	42.7	1.38	-0.88	-1.07	8.9	9.9	
13,573.0	88.29	180.67	12,471.7	-760.9	42.6	2.90	-2.69	1.29	9.7	9.1	
13,668.0	88.11	180.23	12,474.6	-855.9	41.8	0.50	-0.19	-0.46	12.7	7.6	
13,763.0	89.80	179.88	12,476.5	-950.8	41.8	1.61	1.57	-0.37	14.6	6.9	
13,858.0	90.04	179.79	12,476.8	-1,045.8	42.0	0.47	0.46	-0.09	14.9	6.4	
13,953.0	90.40	179.79	12,476.5	-1,140.8	42.4	0.38	0.38	0.00	14.5	6.1	
14,047.0	90.66	179.96	12,475.6	-1,234.8	42.6	0.33	0.28	0.18	13.6	5.6	
14,141.0	91.28	180.14	12,474.0	-1,328.8	42.5	0.69	0.66	0.19	12.0	4.8	
14,236.0	90.66	179.61	12,472.4	-1,423.8	42.7	0.86	-0.65	-0.56	10.4	4.3	
14,331.0	92.42	180.32	12,469.9	-1,518.8	42.8	2.00	1.85	0.75	7.9	3.7	
14,425.0	90.84	181.28	12,467.2	-1,612.7	41.5	1.97	-1.68	1.02	5.2	1.6	
14,520.0	87.76	180.67	12,468.3	-1,707.7	39.8	3.31	-3.24	-0.64	6.4	-0.7	
14,615.0	88.29	181.02	12,471.6	-1,802.6	38.4	0.67	0.56	0.37	9.6	-2.8	
14,709.0	88.99	182.07	12,473.8	-1,896.6	35.9	1.34	0.74	1.12	11.9	-6.0	
14,804.0	89.08	180.93	12,475.4	-1,991.5	33.4	1.20	0.09	-1.20	13.6	-9.2	
14,898.0	88.88	177.42	12,478.8	-2,085.4	34.8	4.40	-2.34	-3.73	18.8	-8.5	
14,993.0	92.07	176.01	12,479.6	-2,180.2	40.2	5.66	5.46	-1.48	17.7	-3.8	
15,088.0	90.66	177.33	12,477.4	-2,275.0	45.7	2.03	-1.48	1.39	15.4	1.0	
15,183.0	91.01	176.80	12,476.0	-2,369.9	50.8	0.67	0.37	-0.56	14.0	5.2	
15,277.0	90.92	177.24	12,474.4	-2,463.8	55.5	0.48	-0.10	0.47	12.4	9.4	
15,372.0	90.66	177.68	12,473.1	-2,558.7	59.7	0.54	-0.27	0.46	11.1	12.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3545.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3545.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)		
15,467.0	91.80	178.12	12,471.0	-2,653.6	63.2	1.29	1.20	0.46		9.1		15.6
15,562.0	90.40	177.94	12,469.2	-2,748.8	68.4	1.49	-1.47	-0.19		7.3		18.2
15,656.0	89.25	177.94	12,469.5	-2,842.4	69.8	1.22	-1.22	0.00		7.5		20.9
15,751.0	91.19	179.44	12,469.1	-2,937.4	72.0	2.58	2.04	1.58		7.2		22.4
15,846.0	89.78	180.58	12,468.3	-3,032.4	72.0	1.91	-1.48	1.20		6.4		21.6
15,941.0	89.69	180.93	12,468.8	-3,127.4	70.7	0.38	-0.09	0.37		6.8		19.7
16,035.0	88.11	181.28	12,470.6	-3,221.3	68.9	1.72	-1.68	0.37		8.6		17.2
16,130.0	88.99	181.28	12,473.0	-3,316.3	68.8	0.93	0.93	0.00		11.0		14.3
16,225.0	91.10	181.90	12,472.9	-3,411.2	64.1	2.31	2.22	0.65		10.9		11.0
16,320.0	89.34	181.11	12,472.6	-3,506.2	61.6	2.03	-1.85	-0.83		10.6		7.8
16,414.0	89.69	181.19	12,473.3	-3,600.2	59.8	0.38	0.37	0.09		11.4		5.2
16,509.0	91.54	182.07	12,472.3	-3,695.1	57.1	2.16	1.95	0.93		10.4		1.8
16,603.0	89.78	180.32	12,471.2	-3,789.1	55.1	2.64	-1.87	-1.86		9.3		-0.8
16,698.0	89.60	180.49	12,471.8	-3,884.1	54.4	0.28	-0.19	0.18		9.8		-2.2
16,793.0	90.04	180.76	12,472.1	-3,979.1	53.4	0.54	0.46	0.28		10.1		-3.9
16,888.0	90.75	181.46	12,471.4	-4,074.1	51.6	1.05	0.75	0.74		9.4		-6.5
16,982.0	90.84	179.52	12,470.1	-4,168.0	50.7	2.07	0.10	-2.06		8.1		-8.0
17,077.0	90.04	179.44	12,469.4	-4,263.0	51.6	0.85	-0.84	-0.08		7.4		-7.8
17,172.0	89.08	179.17	12,470.1	-4,358.0	52.8	1.05	-1.01	-0.28		8.1		-7.4
17,267.0	87.85	179.21	12,472.6	-4,453.0	54.9	1.64	-1.29	-1.01		10.7		-5.9
17,362.0	90.75	177.42	12,473.8	-4,547.9	56.6	3.16	3.05	-0.83		11.8		-3.0
17,456.0	89.52	178.29	12,473.6	-4,641.8	62.1	1.60	-1.31	0.93		11.6		-0.2
17,551.0	88.61	179.79	12,475.0	-4,736.8	63.7	1.75	-0.75	1.58		13.0		0.7
17,647.0	90.31	179.88	12,475.7	-4,832.8	63.9	1.57	1.56	0.09		13.7		0.3
17,742.0	88.29	178.29	12,476.9	-4,927.8	65.5	2.71	-2.13	-1.67		14.9		1.1
17,836.0	88.99	178.82	12,479.1	-5,021.7	67.8	0.93	0.74	0.56		17.1		2.8
17,931.0	88.46	179.00	12,481.2	-5,116.7	69.6	0.59	-0.56	0.19		19.2		3.9



Midland PVA

Company:	EOG Resources - Midland					Local Co-ordinate Reference:		Well #705H			
Project:	Lea County, NM (NAD 83 NME)					TVD Reference:		KB = 25 @ 3545.0usft			
Site:	Convey 28 State Com					MD Reference:		KB = 25 @ 3545.0usft			
Well:	#705H					North Reference:		Grid			
Wellbore:	OH					Survey Calculation Method:		Minimum Curvature			
Design:	OH					Database:		EDM 5000.14			
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
18,026.0	89.43	178.65	12,483.0	-5,211.6	71.6	1.09	1.02	-0.37	21.0	5.1	
18,121.0	91.36	179.70	12,482.3	-5,306.6	72.9	2.31	2.03	1.11	20.3	5.8	
18,216.0	92.15	180.67	12,479.4	-5,401.6	72.6	1.32	0.83	1.02	17.4	4.8	
18,310.0	90.22	180.76	12,477.5	-5,495.5	71.5	2.06	-2.05	0.10	15.5	2.9	
18,405.0	89.86	180.93	12,477.3	-5,590.5	70.1	0.33	-0.27	0.18	15.3	0.8	
18,500.0	89.34	180.84	12,477.9	-5,685.5	68.6	0.66	-0.65	-0.09	15.9	-1.4	
18,594.0	88.37	181.02	12,479.8	-5,779.5	67.1	1.05	-1.03	0.19	17.8	-3.6	
18,689.0	90.64	180.67	12,480.4	-5,874.4	65.7	2.63	2.60	-0.37	18.4	-5.7	
18,784.0	91.69	180.67	12,478.2	-5,969.4	64.6	1.11	1.11	0.00	16.2	-7.5	
18,879.0	90.62	177.85	12,475.8	-6,064.4	63.6	3.14	-1.02	-2.97	13.8	-7.0	
18,973.0	91.28	179.26	12,474.0	-6,158.3	66.2	1.55	0.38	1.50	12.0	-5.3	
19,068.0	88.46	178.73	12,474.2	-6,253.3	69.8	3.02	-2.97	-0.56	12.2	-4.4	
19,162.0	87.67	178.73	12,477.4	-6,347.2	71.9	0.84	-0.84	0.00	15.4	-3.0	
19,257.0	86.35	179.96	12,482.4	-6,442.1	73.0	1.90	-1.39	1.29	20.4	-2.6	
19,352.0	87.67	179.88	12,487.3	-6,536.9	73.1	1.39	1.39	-0.08	25.3	-3.2	
19,446.0	91.63	180.14	12,487.9	-6,630.9	73.1	4.22	4.21	0.28	25.9	-3.9	
19,539.0	93.65	180.40	12,483.6	-6,723.8	72.7	2.19	2.17	0.28	21.6	-5.0	
19,634.0	89.34	178.62	12,481.1	-6,818.7	75.1	6.03	-4.54	-3.98	19.1	-3.2	
19,728.0	89.25	177.59	12,482.3	-6,912.6	79.9	1.04	-0.10	1.03	20.3	0.8	
19,823.0	89.69	177.94	12,483.2	-7,007.5	83.6	0.59	0.46	0.37	21.2	3.8	
19,917.0	89.34	178.12	12,484.0	-7,101.4	86.8	0.42	-0.37	0.19	22.0	6.4	
20,012.0	89.96	179.26	12,484.5	-7,196.4	89.0	1.37	0.65	1.20	22.6	7.8	
20,107.0	89.60	179.52	12,484.9	-7,291.4	90.0	0.47	-0.38	0.27	22.9	8.1	
20,201.0	88.90	179.96	12,486.1	-7,385.4	90.4	0.88	-0.74	0.47	24.1	7.9	
20,295.0	90.31	180.14	12,486.8	-7,479.4	90.4	1.51	1.50	0.19	24.6	7.1	
20,390.0	90.13	180.32	12,486.4	-7,574.4	90.0	0.27	-0.19	0.19	24.4	6.0	
20,485.0	89.25	180.58	12,486.9	-7,669.4	89.2	0.97	-0.93	0.27	24.9	4.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3545.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3545.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
20,580.0	89.25	178.21	12,488.2	-7,764.4	90.2	2.49	0.00	-2.49	26.2	4.9	
20,674.0	91.10	177.88	12,487.9	-7,858.3	93.8	2.03	1.97	-0.56	25.9	7.5	
20,769.0	93.21	179.09	12,484.3	-7,953.2	96.3	2.67	2.22	1.48	22.3	9.5	
20,864.0	90.40	179.09	12,481.3	-8,048.1	97.8	2.98	-2.98	0.00	19.3	10.3	
20,958.0	91.19	180.05	12,480.0	-8,142.1	98.5	1.32	0.84	1.02	18.0	10.3	
21,053.0	90.22	180.58	12,478.9	-8,237.1	98.0	1.16	-1.02	0.56	16.9	9.1	
21,148.0	89.78	180.58	12,478.9	-8,332.1	97.0	0.46	-0.46	0.00	16.9	7.4	
21,243.0	87.67	179.88	12,481.0	-8,427.1	96.6	2.34	-2.22	-0.74	19.0	6.3	
21,338.0	86.79	180.05	12,485.6	-8,522.0	96.7	0.94	-0.93	0.18	23.6	5.7	
21,432.0	87.14	179.88	12,490.5	-8,615.8	96.7	0.41	0.37	-0.18	28.5	5.1	
21,479.0	88.20	180.49	12,492.4	-8,662.8	96.6	2.60	2.28	1.30	30.4	4.6	
21,527.0	91.89	181.37	12,492.4	-8,710.8	95.8	7.90	7.69	1.83	30.4	3.4	
21,622.0	90.48	180.84	12,490.4	-8,805.7	94.0	1.59	-1.48	-0.56	28.4	0.9	
21,716.0	92.77	179.88	12,487.8	-8,899.7	93.4	2.84	2.44	-1.02	25.8	-0.4	
21,811.0	89.60	178.71	12,485.8	-8,994.6	96.2	4.72	-3.34	-3.34	23.8	1.7	
21,906.0	91.01	177.50	12,485.3	-9,089.5	101.0	1.70	1.48	0.83	23.3	5.8	
22,001.0	94.35	178.44	12,480.9	-9,184.3	103.5	4.06	3.52	2.04	18.9	7.7	
22,096.0	92.42	178.82	12,475.3	-9,279.1	105.0	2.13	-2.03	-0.65	13.3	8.4	
22,127.0	91.19	178.29	12,474.3	-9,310.1	105.8	4.32	-3.97	-1.71	12.3	8.9	
22,159.0	89.60	177.77	12,474.1	-9,342.1	106.9	5.23	-4.97	-1.62	12.1	9.8	
22,191.0	87.49	177.85	12,474.9	-9,374.0	108.1	6.60	-6.59	0.25	12.9	10.8	
22,254.0	87.32	178.38	12,477.7	-9,436.9	110.2	0.88	-0.27	0.84	15.7	12.4	
22,286.0	87.76	178.73	12,479.1	-9,468.9	111.0	1.78	1.37	1.09	17.1	13.0	
22,380.0	89.52	179.52	12,481.3	-9,562.9	112.4	2.05	1.87	0.84	19.3	13.7	
22,506.0	88.37	178.12	12,483.6	-9,668.8	115.0	1.44	-0.91	-1.11	21.6	15.4	

Last MWD Survey (MD = 22506.0)



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3545.0usft
Site:	Convoy 28 State Com	MD Reference:	KB = 25 @ 3545.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
22,692.0	88.37	178.12	12,488.9	-9,874.6	121.1	0.00	0.00	0.00	26.9	20.1
Projection to Bit (MD = 22692.0)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,050.0	12,014.0	502.8	20.3	KOP 12050.0' MD; 12014.0' TVD; 502.8'; 20.3'; 5.13
12,198.3	12,158.0	471.0	28.6	FTP Crossing 12198.3' MD; 12158.0' TVD; 471.0'; 28.6'; 21.05
22,506.0	12,483.6	-9,888.8	115.0	Last MWD Survey (MD = 22506.0)
22,692.0	12,488.9	-9,874.6	121.1	Projection to Bit (MD = 22692.0)

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Convoy 28 State Com #705H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #705H

KB = 28 @ 3545.0ust 3520.0
Northing 435247.00 Easting 775540.00 Latitude 32° 11' 39.688 N Longitude 103° 34' 34.395 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diep	TFace	VSeet	Target
1	5045.0	4.00	7.50	5039.4	165.4	48.9	0.00	0.00	-164.9	
2	5145.0	4.00	7.50	5139.2	172.3	49.8	0.00	0.00	-171.8	
3	5469.9	10.35	355.37	5461.4	212.7	49.0	2.00	-19.85	-212.2	
4	6931.5	10.35	355.37	6899.2	474.5	27.8	0.00	0.00	-474.2	
5	7449.1	0.00	0.00	7414.0	521.0	24.0	2.00	180.00	-520.7	Brushy Top(Con 28 ST Com #705H)
6	12019.6	0.00	0.00	11984.5	521.0	24.0	0.00	0.00	-520.7	
7	12769.6	90.00	179.58	12462.0	43.5	27.5	12.00	179.58	-43.3	
8	22687.4	90.00	179.58	12462.0	-9874.0	101.0	0.00	0.00	9874.5	PBHL(Con 28 ST Com #705H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(Con 28 ST Com #705H)	7414.0	521.0	24.0	435768.00	776884.00
FTPL Con 28 ST Com #705H	12462.0	471.0	24.0	435718.00	776884.00
PBHL(Con 28 ST Com #705H)	12462.0	-9874.0	101.0	425373.00	776841.00

