

Results of Directional Survey

API number:	30-025-39807		
OGRID:		Operator:	CHEVRON U S A INC
		Property:	CENTRAL DRINKARD UNIT # 443H

surface	ULSTR:	I	31	T 21S	R 37E
				1650 FSL	890 FEL

BH Loc	ULSTR:	P	30	T 21S	R 37E
10341 MD		6563.2	TVD	202 FSL	940 FEL

Top Perf/OH	ULSTR:	I	31	T 21S	R 37E
6465 MD		6462.0	TVD	1685 FSL	822 FEL

Bot Perf/OH	ULSTR:	P	30	T 21S	R 37E
10341 MD		6563.2	TVD	202 FSL	940 FEL

	MD	N/S	E/W	VD
	6415	24.70	71.50	6413.7
TOP PERFS/OH	6465	35.32	68.10	6461.95
	6512	45.30	64.90	6507.30
	10290	3781.10	-47.80	6562.50
BOT PERFS/OH	10341	3832.00	-50.30	6563.20
	10341	3832.00	-50.30	6563.20

NEXT TO LAST	10290	3781.10	-47.80	6562.50
LAST READING	10341	3832.00	-50.30	6563.20
TD	10341	3832.00	-50.30	6563.20

Surface Location	1650 FS	890 FE
Projected BHL	5482 FS	940 FE
Location of		
Top Perfs/OH	1685 FS	822 FE
Bottom Perfs/OH	5482 FS	940 FE

SUMMARY of Subsurface Locations

Surface Location	I-31-21S-37E	1650 FS	890 FE	Vert. Depth
Top Perfs/OH	I-31-21S-37E	1685 FS	822 FE	6461.95
Bottom Perfs/OH	P-30-21S-37E	202 FS	940 FE	6563.20
Projected TD	P-30-21S-37E	202 FS	940 FE	6563.20

APR 16 2012



Scientific Drilling

Chevron

**Lea County, New Mexico
Central Drinkard Unit (443H)
443H
Lateral**

SUR: I-31-21s-37e, 1650/S & 890/E
BHL: P-30-21s-37e, 202/S & 940/E
API # 30-025-39807

Design: Actual

Final Survey Report

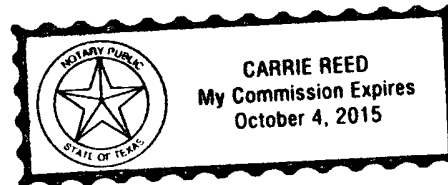
This survey is correct to the best of my knowledge and is supported by actual field data.

[Signature]

Notarized this date 11/11 of October, 2011.

[Signature]

Notary Signature
County of Midland
State of Texas





SDI
Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484 0usft (Key #555)
Site:	Central Drinkard Unit (443H)	MD Reference:	RKB @ 3484 0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-Distinct

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

Site	Central Drinkard Unit (443H)		
Site Position:		Northing:	522,957 40 usft
From:	Map	Easting:	850,843 90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0 "
		Latitude:	32° 26' 1.250 N
		Longitude:	103° 19' 48.570 W
		Grid Convergence:	0 54 °

Well	443H					
Well Position	+N/-S	0.0 usft	Northing:	522,957 40 usft	Latitude:	32° 26' 1.250 N
	+E/-W	0.0 usft	Easting:	850,843 90 usft	Longitude:	103° 19' 48.570 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,468.0 usft

Wellbore	Lateral					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
	IGRF2010	9/9/2011	(°)	(°)	(nT)	
			7.46	60.42	48,746	

Design	Actual				
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	359.53	



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Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey Program		Date 10/18/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	6,415.0	Survey #1 (Lateral)	SDI Gyro	Gyroscopic Survey
6,512.0	10,341.0	Survey #2 (Lateral)	MWD	MWD - Standard

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (")	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.00	522,957.40	850,843.90
100.0	0.65	130.29	100.0	-0.4	0.4	0.65	0.6	130.29	522,957.03	850,844.33
200.0	0.85	134.63	200.0	-1.3	1.4	0.21	1.9	132.01	522,956.15	850,845.29
300.0	0.79	131.20	300.0	-2.2	2.4	0.08	3.3	132.43	522,955.17	850,846.34
400.0	0.54	141.97	400.0	-3.1	3.2	0.28	4.5	133.24	522,954.34	850,847.15
500.0	0.51	155.95	500.0	-3.8	3.7	0.13	5.3	135.85	522,953.57	850,847.62
600.0	0.31	143.27	600.0	-4.5	4.1	0.22	6.0	137.64	522,952.94	850,847.96
700.0	0.24	36.85	700.0	-4.5	4.4	0.44	6.3	136.00	522,952.89	850,848.25
800.0	0.16	223.04	800.0	-4.4	4.4	0.40	6.2	135.38	522,952.96	850,848.28
900.0	0.20	207.08	900.0	-4.7	4.2	0.06	6.3	138.15	522,952.70	850,848.11
1,000.0	0.20	155.39	1,000.0	-5.0	4.2	0.17	6.5	140.03	522,952.39	850,848.10
1,100.0	0.23	142.14	1,100.0	-5.3	4.4	0.06	6.9	140.48	522,952.07	850,848.30
1,200.0	0.19	117.30	1,200.0	-5.6	4.7	0.10	7.3	140.01	522,951.84	850,848.57
1,300.0	0.32	85.01	1,300.0	-5.6	5.1	0.19	7.6	137.80	522,951.79	850,848.99
1,400.0	0.27	88.46	1,400.0	-5.6	5.6	0.05	7.9	134.89	522,951.82	850,849.51
1,500.0	0.32	91.42	1,500.0	-5.6	6.1	0.05	8.3	132.38	522,951.82	850,850.02
1,600.0	0.47	78.40	1,600.0	-5.5	6.8	0.17	8.8	129.01	522,951.89	850,850.70
1,700.0	0.54	76.06	1,700.0	-5.3	7.7	0.07	9.3	124.74	522,952.09	850,851.56
1,800.0	1.16	55.58	1,799.9	-4.6	9.0	0.68	10.1	117.33	522,952.77	850,852.85
1,900.0	1.39	53.00	1,899.9	-3.3	10.8	0.24	11.3	107.18	522,954.07	850,854.66
2,000.0	2.63	52.22	1,999.9	-1.2	13.5	1.24	13.6	95.02	522,956.21	850,857.44



SDI Final Survey Report



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Site:	Central Drinkard Unit (443H)	MD Reference:	RKB @ 3484.0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
2,100.0	2.62	52.54	2,099.7	1.6	17.2	0.02	17.2	84.66	522,959.01	850,861.07	
2,200.0	2.89	57.19	2,199.6	4.4	21.1	0.35	21.5	78.32	522,961.76	850,865.00	
2,300.0	2.99	57.15	2,299.5	7.1	25.4	0.10	26.4	74.30	522,964.54	850,869.31	
2,400.0	3.12	57.07	2,399.4	10.0	29.9	0.13	31.5	71.43	522,967.44	850,873.78	
2,500.0	3.16	56.29	2,499.2	13.0	34.5	0.06	36.8	69.26	522,970.45	850,878.36	
2,600.0	2.62	59.73	2,599.1	15.7	38.7	0.57	41.8	67.90	522,973.13	850,882.63	
2,700.0	2.27	62.28	2,699.0	17.8	42.5	0.37	46.0	67.25	522,975.20	850,886.35	
2,800.0	2.05	66.45	2,798.9	19.4	45.8	0.27	49.8	67.03	522,976.84	850,889.75	
2,900.0	1.85	68.65	2,898.9	20.7	49.0	0.21	53.2	67.06	522,978.14	850,892.89	
3,000.0	1.48	66.19	2,998.8	21.8	51.7	0.38	56.1	67.08	522,979.25	850,895.58	
3,100.0	1.31	67.26	3,098.8	22.8	53.9	0.17	58.5	67.07	522,980.21	850,897.81	
3,200.0	1.20	69.44	3,198.8	23.6	55.9	0.12	60.7	67.11	522,981.02	850,899.85	
3,300.0	1.00	72.87	3,298.7	24.2	57.8	0.21	62.6	67.23	522,981.65	850,901.66	
3,400.0	0.82	78.36	3,398.7	24.6	59.3	0.20	64.2	67.43	522,982.05	850,903.19	
3,500.0	0.65	76.20	3,498.7	24.9	60.5	0.17	65.5	67.62	522,982.33	850,904.45	
3,600.0	0.62	75.31	3,598.7	25.2	61.6	0.03	66.6	67.76	522,982.60	850,905.52	
3,700.0	0.48	79.79	3,698.7	25.4	62.6	0.15	67.5	67.89	522,982.81	850,906.46	
3,800.0	0.43	78.77	3,798.7	25.6	63.3	0.05	68.3	68.02	522,982.96	850,907.24	
3,900.0	0.29	75.39	3,898.7	25.7	63.9	0.14	68.9	68.11	522,983.10	850,907.85	
4,000.0	0.38	66.69	3,998.7	25.9	64.5	0.10	69.5	68.13	522,983.29	850,908.40	
4,100.0	0.37	72.94	4,098.7	26.1	65.1	0.04	70.2	68.14	522,983.52	850,909.01	
4,200.0	0.37	73.51	4,198.7	26.3	65.7	0.00	70.8	68.19	522,983.70	850,909.63	
4,300.0	0.41	65.46	4,298.7	26.5	66.4	0.07	71.5	68.20	522,983.94	850,910.27	
4,400.0	0.54	49.58	4,398.7	27.0	67.0	0.18	72.3	68.07	522,984.40	850,910.95	
4,500.0	0.07	236.91	4,498.7	27.3	67.4	0.61	72.7	67.96	522,984.67	850,911.26	
4,600.0	0.08	225.19	4,598.7	27.2	67.3	0.02	72.5	67.99	522,984.59	850,911.16	
4,700.0	0.20	172.32	4,698.7	27.0	67.2	0.16	72.4	68.15	522,984.36	850,911.13	

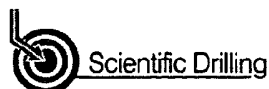


SDI
Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484 0usft (Key #555)
Site:	Central Drinkard Unit (443H)	MD Reference:	RKB @ 3484 0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
4,800.0	0.25	183.33	4,798.7	26.6	67.2	0.07	72.3	68.44	522,983.97	850,911.14	
4,900.0	0.17	198.33	4,898.7	26.2	67.2	0.10	72.1	68.68	522,983.61	850,911.08	
5,000.0	0.11	214.69	4,998.7	26.0	67.1	0.07	71.9	68.82	522,983.40	850,910.98	
5,100.0	0.05	217.36	5,098.7	25.9	67.0	0.06	71.8	68.88	522,983.28	850,910.90	
5,200.0	0.11	359.02	5,198.7	25.9	67.0	0.15	71.8	68.83	522,983.34	850,910.87	
5,300.0	0.12	19.15	5,298.7	26.1	67.0	0.04	71.9	68.69	522,983.54	850,910.90	
5,400.0	0.15	65.99	5,398.7	26.3	67.2	0.11	72.1	68.62	522,983.69	850,911.06	
5,500.0	0.17	97.07	5,498.7	26.3	67.4	0.09	72.4	68.67	522,983.72	850,911.32	
5,600.0	0.15	82.88	5,598.7	26.3	67.7	0.04	72.6	68.75	522,983.72	850,911.60	
5,700.0	0.20	116.84	5,698.7	26.3	68.0	0.11	72.9	68.88	522,983.66	850,911.89	
5,800.0	0.26	111.45	5,798.7	26.1	68.4	0.06	73.2	69.10	522,983.50	850,912.25	
5,900.0	0.35	106.89	5,898.7	25.9	68.9	0.09	73.6	69.37	522,983.33	850,912.76	
6,000.0	0.30	109.57	5,998.7	25.8	69.4	0.05	74.0	69.64	522,983.15	850,913.30	
6,100.0	0.28	107.21	6,098.7	25.6	69.9	0.02	74.4	69.89	522,982.99	850,913.78	
6,200.0	0.38	124.48	6,198.7	25.3	70.4	0.14	74.8	70.21	522,982.73	850,914.28	
6,300.0	0.26	112.70	6,298.7	25.1	70.9	0.14	75.2	70.53	522,982.46	850,914.77	
6,400.0	0.47	126.64	6,398.7	24.7	71.4	0.23	75.6	70.90	522,982.12	850,915.30	
6,415.0	0.47	107.84	6,413.7	24.7	71.5	1.02	75.6	70.97	522,982.07	850,915.41	
SDI Gyro Tie-in											
6,512.0	26.32	341.46	6,507.3	45.3	64.9	27.42	79.2	55.10	523,002.71	850,908.84	
6,543.0	39.98	342.87	6,533.2	61.4	59.8	44.13	85.7	44.23	523,018.82	850,903.69	
6,571.0	52.29	344.70	6,552.6	80.8	54.2	44.21	97.3	33.86	523,038.17	850,898.10	
6,603.0	64.28	342.45	6,569.4	106.8	46.5	37.94	116.5	23.52	523,064.22	850,890.38	
6,633.0	72.60	343.66	6,580.4	133.5	38.4	27.99	138.9	16.04	523,090.89	850,882.27	
6,664.0	77.29	345.37	6,588.5	162.3	30.4	16.04	165.1	10.60	523,119.73	850,874.28	
6,695.0	77.12	350.25	6,595.3	191.9	24.0	15.36	193.4	7.13	523,149.27	850,867.90	
6,727.0	77.08	350.93	6,602.5	222.6	18.9	2.08	223.4	4.85	523,180.04	850,862.80	



SDI
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Design:	Actual	Database:	EDM-Houston-District

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
6,758.0	80.59	351.99	6,608.5	252.7	14.4	11.81	253.1	3.26	523,210.11	850,858.29	
6,789.0	86.37	354.41	6,612.0	283.3	10.7	20.19	283.5	2.17	523,240.68	850,854.64	
6,820.0	88.96	355.45	6,613.3	314.1	8.0	9.00	314.2	1.46	523,271.53	850,851.91	
6,851.0	88.86	355.50	6,613.8	345.0	5.6	0.36	345.1	0.92	523,302.43	850,849.46	
6,882.0	89.60	356.38	6,614.3	375.9	3.4	3.71	376.0	0.51	523,333.35	850,847.27	
6,914.0	91.28	359.06	6,614.0	407.9	2.1	9.88	407.9	0.29	523,365.32	850,846.00	
6,945.0	91.58	358.89	6,613.2	438.9	1.5	1.11	438.9	0.20	523,396.30	850,845.44	
6,975.0	93.19	358.81	6,612.0	468.9	0.9	5.37	468.9	0.11	523,426.27	850,844.84	
7,007.0	92.89	358.65	6,610.3	500.8	0.2	1.06	500.8	0.03	523,458.22	850,844.13	
7,038.0	92.79	358.56	6,608.8	531.8	-0.5	0.43	531.8	359.94	523,489.17	850,843.38	
7,069.0	92.59	358.34	6,607.3	562.7	-1.4	0.96	562.7	359.86	523,520.12	850,842.54	
7,100.0	92.76	358.01	6,605.9	593.7	-2.3	1.20	593.7	359.77	523,551.07	850,841.55	
7,131.0	94.04	359.45	6,604.0	624.6	-3.0	6.21	624.6	359.72	523,582.01	850,840.87	
7,163.0	94.71	359.79	6,601.6	656.5	-3.2	2.35	656.5	359.72	523,613.92	850,840.66	
7,194.0	95.26	359.89	6,598.9	687.4	-3.3	1.80	687.4	359.72	523,644.80	850,840.57	
7,225.0	93.80	359.11	6,596.4	718.3	-3.6	5.34	718.3	359.71	523,675.70	850,840.30	
7,256.0	92.89	358.72	6,594.6	749.2	-4.2	3.19	749.3	359.68	523,706.64	850,839.71	
7,288.0	92.89	358.56	6,593.0	781.2	-4.9	0.50	781.2	359.64	523,738.59	850,838.95	
7,319.0	91.18	358.35	6,591.9	812.2	-5.8	5.56	812.2	359.59	523,769.56	850,838.12	
7,350.0	91.14	358.25	6,591.3	843.1	-6.7	0.35	843.2	359.54	523,800.54	850,837.20	
7,381.0	90.87	358.13	6,590.7	874.1	-7.7	0.95	874.2	359.50	523,831.52	850,836.22	
7,413.0	91.44	358.33	6,590.1	906.1	-8.7	1.89	906.1	359.45	523,863.50	850,835.23	
7,444.0	93.19	358.81	6,588.8	937.1	-9.4	5.85	937.1	359.42	523,894.46	850,834.46	
7,475.0	94.04	358.92	6,586.9	968.0	-10.1	2.76	968.0	359.40	523,925.39	850,833.85	
7,506.0	94.61	358.66	6,584.6	998.9	-10.7	2.02	999.0	359.39	523,956.30	850,833.19	
7,537.0	94.58	358.43	6,582.1	1,029.8	-11.5	0.75	1,029.9	359.36	523,987.19	850,832.41	
7,569.0	94.37	358.52	6,579.6	1,061.7	-12.3	0.71	1,061.8	359.33	524,019.08	850,831.56	



SDI Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484.0usft (Key #555)
Site:	Central Drinkard Unit (443H)	MD Reference:	RKB @ 3484.0usft (Key #555)
Well:	443H	North Reference:	Grnd
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
7,600.0	94.04	358.44	6,577.3	1,092.6	-13.2	1.10	1,092.7	359.31	524,049.98	850,830.74	
7,631.0	93.06	358.43	6,575.4	1,123.5	-14.0	3.16	1,123.6	359.29	524,080.91	850,829.90	
7,662.0	93.30	358.32	6,573.7	1,154.5	-14.9	0.85	1,154.5	359.26	524,111.85	850,829.02	
7,693.0	91.68	359.15	6,572.3	1,185.4	-15.6	5.87	1,185.5	359.25	524,142.81	850,828.33	
7,724.0	90.94	359.60	6,571.6	1,216.4	-15.9	2.79	1,216.5	359.25	524,173.80	850,828.00	
7,755.0	89.46	359.76	6,571.5	1,247.4	-16.1	4.80	1,247.5	359.26	524,204.80	850,827.82	
7,787.0	89.23	0.15	6,571.9	1,279.4	-16.1	1.41	1,279.5	359.28	524,236.80	850,827.80	
7,818.0	88.79	359.96	6,572.4	1,310.4	-16.1	1.55	1,310.5	359.30	524,267.80	850,827.83	
7,849.0	88.89	359.93	6,573.0	1,341.4	-16.1	0.34	1,341.5	359.31	524,298.79	850,827.80	
7,880.0	92.29	0.60	6,572.7	1,372.4	-16.0	11.18	1,372.5	359.33	524,329.78	850,827.94	
7,893.0	92.29	0.61	6,572.2	1,385.4	-15.8	0.08	1,385.5	359.35	524,342.77	850,828.08	
7,924.0	93.67	0.94	6,570.6	1,416.3	-15.4	4.58	1,416.4	359.38	524,373.73	850,828.50	
7,955.0	94.88	1.06	6,568.3	1,447.2	-14.9	3.92	1,447.3	359.41	524,404.63	850,829.04	
7,986.0	91.44	0.10	6,566.6	1,478.2	-14.6	11.52	1,478.3	359.44	524,435.58	850,829.35	
8,018.0	91.34	359.84	6,565.8	1,510.2	-14.6	0.87	1,510.2	359.45	524,467.57	850,829.33	
8,049.0	91.81	0.08	6,564.9	1,541.2	-14.6	1.70	1,541.2	359.46	524,498.56	850,829.31	
8,080.0	92.29	0.25	6,563.8	1,572.1	-14.5	1.64	1,572.2	359.47	524,529.54	850,829.40	
8,111.0	90.97	359.61	6,562.9	1,603.1	-14.5	4.73	1,603.2	359.48	524,560.53	850,829.36	
8,143.0	89.70	359.09	6,562.8	1,635.1	-14.9	4.29	1,635.2	359.48	524,592.52	850,829.00	
8,174.0	90.27	358.95	6,562.8	1,666.1	-15.4	1.89	1,666.2	359.47	524,623.52	850,828.47	
8,205.0	91.34	359.00	6,562.3	1,697.1	-16.0	3.46	1,697.2	359.46	524,654.51	850,827.91	
8,237.0	90.24	358.71	6,561.9	1,729.1	-16.6	3.55	1,729.2	359.45	524,686.50	850,827.28	
8,268.0	89.50	358.55	6,562.0	1,760.1	-17.4	2.44	1,760.2	359.43	524,717.49	850,826.53	
8,299.0	89.06	358.77	6,562.3	1,791.1	-18.1	1.59	1,791.2	359.42	524,748.48	850,825.81	
8,330.0	89.02	358.82	6,562.9	1,822.1	-18.7	0.21	1,822.2	359.41	524,779.47	850,825.16	
8,361.0	88.99	358.88	6,563.4	1,853.1	-19.4	0.22	1,853.2	359.40	524,810.46	850,824.54	
8,392.0	90.47	0.32	6,563.5	1,884.1	-19.6	6.66	1,884.2	359.40	524,841.45	850,824.32	



SDI Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484 0usft (Key #555)
Site:	Central Dnnkard Unit (443H)	MD Reference:	RKB @ 3484 0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey											
MD. (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
8,423.0	90.60	0.54	6,563.3	1,915.1	-19.3	0.82	1,915.1	359.42	524,872.45	850,824.55	
8,454.0	91.28	0.05	6,562.7	1,946.0	-19.2	2.70	1,946.1	359.44	524,903.45	850,824.71	
8,486.0	92.69	359.76	6,561.6	1,978.0	-19.2	4.50	1,978.1	359.44	524,935.43	850,824.66	
8,517.0	92.12	359.43	6,560.3	2,009.0	-19.5	2.12	2,009.1	359.45	524,966.40	850,824.44	
8,548.0	91.98	359.53	6,559.2	2,040.0	-19.7	0.55	2,040.1	359.45	524,997.38	850,824.16	
8,580.0	91.71	359.91	6,558.2	2,072.0	-19.9	1.46	2,072.1	359.45	525,029.36	850,824.00	
8,611.0	91.44	359.95	6,557.3	2,102.9	-19.9	0.88	2,103.0	359.46	525,060.35	850,823.96	
8,643.0	91.18	0.24	6,556.6	2,134.9	-19.9	1.22	2,135.0	359.47	525,092.34	850,824.02	
8,674.0	91.14	0.48	6,556.0	2,165.9	-19.7	0.78	2,166.0	359.48	525,123.33	850,824.21	
8,698.0	91.75	0.19	6,555.4	2,189.9	-19.5	2.81	2,190.0	359.49	525,147.33	850,824.35	
8,729.0	92.69	0.15	6,554.2	2,220.9	-19.5	3.03	2,221.0	359.50	525,178.30	850,824.44	
8,761.0	92.49	0.14	6,552.7	2,252.9	-19.4	0.63	2,253.0	359.51	525,210.27	850,824.52	
8,791.0	92.32	0.11	6,551.5	2,282.8	-19.3	0.58	2,282.9	359.52	525,240.24	850,824.59	
8,823.0	91.88	0.01	6,550.3	2,314.8	-19.3	1.41	2,314.9	359.52	525,272.22	850,824.62	
8,854.0	91.55	359.99	6,549.4	2,345.8	-19.3	1.07	2,345.9	359.53	525,303.21	850,824.62	
8,886.0	91.61	0.01	6,548.5	2,377.8	-19.3	0.20	2,377.9	359.54	525,335.19	850,824.62	
8,917.0	91.38	359.72	6,547.7	2,408.8	-19.3	1.19	2,408.9	359.54	525,366.18	850,824.55	
8,948.0	90.44	359.31	6,547.2	2,439.8	-19.6	3.31	2,439.9	359.54	525,397.18	850,824.29	
8,979.0	90.61	358.97	6,546.9	2,470.8	-20.1	1.23	2,470.9	359.53	525,428.17	850,823.82	
9,011.0	90.77	358.40	6,546.5	2,502.8	-20.8	1.85	2,502.8	359.52	525,460.16	850,823.09	
9,042.0	91.21	358.46	6,546.0	2,533.7	-21.7	1.43	2,533.8	359.51	525,491.15	850,822.24	
9,073.0	91.04	358.08	6,545.4	2,564.7	-22.6	1.34	2,564.8	359.50	525,522.13	850,821.30	
9,104.0	89.70	359.33	6,545.2	2,595.7	-23.3	5.91	2,595.8	359.49	525,553.12	850,820.60	
9,135.0	89.50	359.13	6,545.4	2,626.7	-23.7	0.91	2,626.8	359.48	525,584.11	850,820.19	
9,167.0	88.52	358.66	6,545.9	2,658.7	-24.3	3.40	2,658.8	359.48	525,616.10	850,819.57	
9,198.0	89.60	358.38	6,546.5	2,689.7	-25.1	3.60	2,689.8	359.46	525,647.09	850,818.77	
9,229.0	90.47	358.18	6,546.4	2,720.7	-26.1	2.88	2,720.8	359.45	525,678.07	850,817.84	



SDI Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484.0usft (Key #555)
Site:	Central Drnkard Unit (443H)	MD Reference:	RKB @ 3484.0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)		
9,260.0	90.20	357.67	6,546.3	2,751.7	-27.2	1.86	2,751.8	359.43	525,709.05	850,816.72		
9,291.0	89.60	357.29	6,546.3	2,782.6	-28.5	2.29	2,782.8	359.41	525,740.02	850,815.35		
9,322.0	88.86	357.79	6,546.7	2,813.6	-29.9	2.88	2,813.7	359.39	525,770.99	850,814.02		
9,353.0	89.73	358.60	6,547.1	2,844.6	-30.9	3.83	2,844.7	359.38	525,801.97	850,813.05		
9,384.0	88.92	358.75	6,547.5	2,875.6	-31.6	2.66	2,875.7	359.37	525,832.96	850,812.33		
9,416.0	88.49	359.23	6,548.2	2,907.5	-32.1	2.01	2,907.7	359.37	525,864.95	850,811.77		
9,447.0	88.72	359.65	6,549.0	2,938.5	-32.4	1.54	2,938.7	359.37	525,895.94	850,811.46		
9,478.0	88.86	0.06	6,549.6	2,969.5	-32.5	1.40	2,969.7	359.37	525,926.93	850,811.38		
9,510.0	89.16	0.39	6,550.2	3,001.5	-32.4	1.39	3,001.7	359.38	525,958.92	850,811.51		
9,541.0	87.98	359.58	6,550.9	3,032.5	-32.4	4.62	3,032.7	359.39	525,989.91	850,811.50		
9,572.0	88.32	359.88	6,551.9	3,063.5	-32.5	1.46	3,063.7	359.39	526,020.90	850,811.36		
9,603.0	88.12	359.20	6,552.9	3,094.5	-32.8	2.29	3,094.7	359.39	526,051.88	850,811.11		
9,634.0	87.98	359.51	6,554.0	3,125.5	-33.1	1.10	3,125.6	359.39	526,082.86	850,810.76		
9,665.0	87.65	359.49	6,555.1	3,156.4	-33.4	1.07	3,156.6	359.39	526,113.84	850,810.49		
9,697.0	88.62	359.08	6,556.2	3,188.4	-33.8	3.29	3,188.6	359.39	526,145.82	850,810.09		
9,728.0	90.54	359.66	6,556.4	3,219.4	-34.2	6.47	3,219.6	359.39	526,176.81	850,809.75		
9,760.0	90.74	359.78	6,556.0	3,251.4	-34.3	0.73	3,251.6	359.40	526,208.81	850,809.59		
9,791.0	90.47	359.53	6,555.7	3,282.4	-34.5	1.19	3,282.6	359.40	526,239.81	850,809.41		
9,822.0	90.40	359.60	6,555.5	3,313.4	-34.7	0.32	3,313.6	359.40	526,270.81	850,809.17		
9,853.0	89.90	359.49	6,555.4	3,344.4	-35.0	1.65	3,344.6	359.40	526,301.81	850,808.92		
9,885.0	89.97	359.25	6,555.4	3,376.4	-35.3	0.78	3,376.6	359.40	526,333.80	850,808.57		
9,916.0	90.13	359.65	6,555.4	3,407.4	-35.6	1.39	3,407.6	359.40	526,364.80	850,808.27		
9,948.0	89.97	359.59	6,555.4	3,439.4	-35.8	0.53	3,439.6	359.40	526,396.80	850,808.06		
9,979.0	89.76	359.50	6,555.5	3,470.4	-36.1	0.74	3,470.6	359.40	526,427.80	850,807.82		
10,010.0	88.99	358.75	6,555.8	3,501.4	-36.6	3.47	3,501.6	359.40	526,458.79	850,807.34		
10,042.0	88.42	358.17	6,556.5	3,533.4	-37.4	2.54	3,533.6	359.39	526,490.77	850,806.48		
10,072.0	88.69	358.38	6,557.3	3,563.4	-38.3	1.14	3,563.6	359.38	526,520.75	850,805.58		

Company:	Chevron	Local Co-ordinate Reference:	Well 443H
Project:	Lea County, New Mexico	TVD Reference:	RKB @ 3484.0usft (Key #555)
Site:	Central Drnkard Unit (443H)	MD Reference:	RKB @ 3484 0usft (Key #555)
Well:	443H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM-Houston-District

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
10,104.0	88.62	358.12	6,558.0	3,595.3	-39.3	0.84	3,595.5	359.37	526,552.73	850,804.60	
10,135.0	87.88	357.12	6,559.0	3,626.3	-40.6	4.01	3,626.5	359.36	526,583.69	850,803.32	
10,166.0	87.78	357.38	6,560.1	3,657.2	-42.1	0.90	3,657.5	359.34	526,614.63	850,801.83	
10,197.0	88.55	357.23	6,561.1	3,688.2	-43.5	2.53	3,688.4	359.32	526,645.58	850,800.37	
10,229.0	88.86	357.39	6,561.9	3,720.1	-45.0	1.09	3,720.4	359.31	526,677.53	850,798.87	
10,259.0	89.66	357.52	6,562.2	3,750.1	-46.4	2.70	3,750.4	359.29	526,707.50	850,797.54	
10,290.0	89.29	357.19	6,562.5	3,781.1	-47.8	1.60	3,781.4	359.28	526,738.47	850,796.11	
10,341.0	89.29	357.19	6,563.2	3,832.0	-50.3	0.00	3,832.3	359.25	526,789.40	850,793.61	
Projected Depth											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,415.0	6,413.7	24.7	71.5	SDI Gyro Tie-in
10,341.0	6,563.2	3,832.0	-50.3	Projected Depth



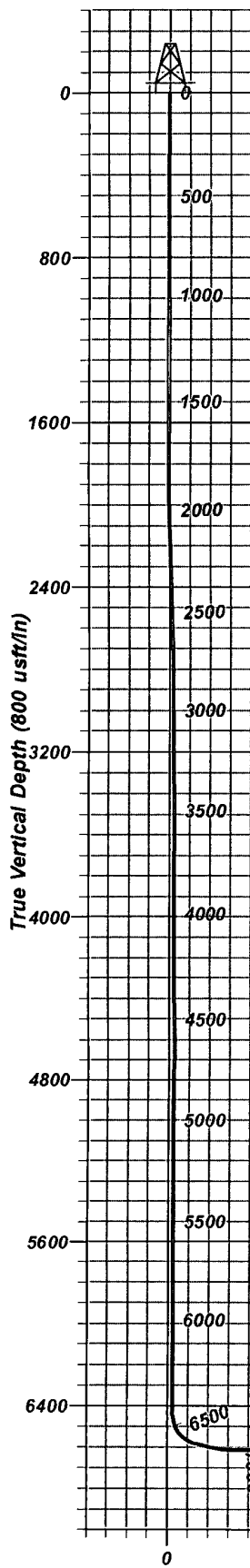
Scientific Drilling

Lea County, New Mexico
Central Drinkard Unit (443H) 443H
Actual vs Plan #3 revision
Rig: Key #555



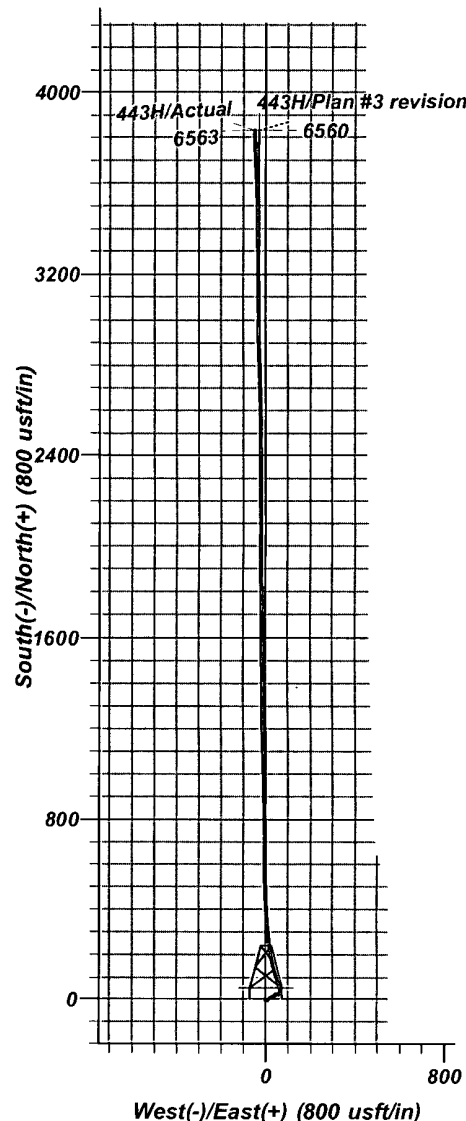
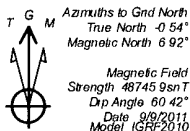
Section View Depths Shown are
Measured Depths

Plan View Depths Shown are
True Vertical Depths



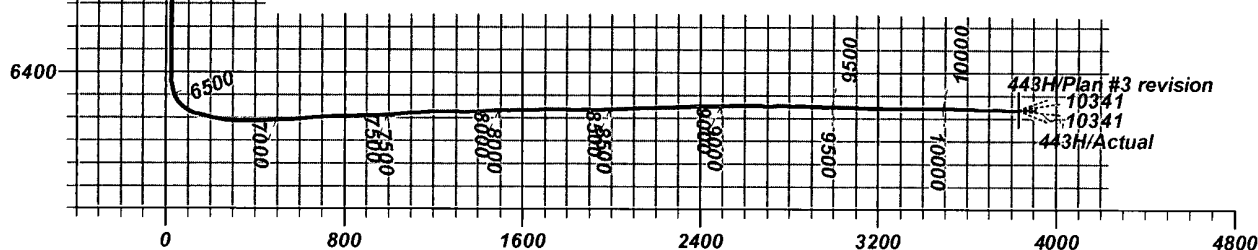
Bottom Hole Closure

10341.0' MD 89.29° Inc 357.19° Az 6563.2' TVD
3832.0' North 50.3' West of Surface Location
3832.3' Closure Distance 359.25° Closure Azimuth



WELL DETAILS: 443H

+N/-S	+E/-W	Ground Level:	3468.0
0.0	0.0	Northing	522957.40
		Easting	850843.90
		Latitude	32° 26' 1.250 N
		Longitude	103° 19' 48.570 W



Vertical Section at 359.53° (800 usft/in)