



API Well Number Banner

Report Description

This report shows a Well's API Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



30025399610000

30 25 39961

COCKBURN G FEDERAL No.005H

DEVON ENERGY PRODUCTION COMPANY, LP

5/10/2011

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cockburn "G" Federal #5H
Project:	Mescalero Escarpe	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cockburn "G" Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0111073	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111073	Database:	EDM-Regulatory

Project	Mescalero Escarpe		
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						Lea County, NM					
Site Position:				Northing:		639,417.60 usft		Latitude:		32° 45' 21.600 N	
From:		Lat/Long		Easting:		709,460.50 usft		Longitude:		103° 39' 7.200 W	
Position Uncertainty:		0.0 usft		Slot Radius:		13-3/16"		Grid Convergence:		0.37 °	

Well	Cockburn "G" Federal #5H, Directional (Pathfinder)					
Well Position	+N/-S	0.0 usft	Northing:	640,637.85 usft	Latitude:	32° 45' 33.800 N
	+E/-W	0.0 usft	Easting:	707,474.82 usft	Longitude:	103° 39' 30.360 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0111073				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	1/24/2011	7.77	60.69	49,033

Design	VH - Job #32K0111073				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	10.05	

Survey Program	Date	1/27/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,565.0	Actual (VH - Job #32K0111073)	Keeper	Keeper Gyro

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
100.0	0.41	293.30	100.0	0.1	-0.3	293.30	0.4
200.0	0.31	292.66	200.0	0.4	-0.9	293.12	1.0
300.0	0.71	291.44	300.0	0.7	-1.7	292.50	1.9
400.0	1.07	290.44	400.0	1.3	-3.2	291.75	3.4
500.0	1.07	290.39	500.0	1.9	-4.9	291.28	5.3
600.0	1.32	304.71	599.9	2.9	-6.8	293.25	7.4
700.0	1.59	307.48	699.9	4.4	-8.8	296.57	9.8
800.0	1.82	307.10	799.9	6.2	-11.2	299.05	12.8
900.0	1.84	307.97	899.8	8.2	-13.7	300.74	15.9
1,000.0	1.75	306.31	999.8	10.0	-16.2	301.79	19.1
1,100.0	1.09	311.73	1,099.7	11.6	-18.1	302.55	21.5

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cockburn "G" Federal #5H
Project:	Mescalero Escarpe	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cockburn "G" Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0111073	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111073	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	0.77	311.06	1,199.7	12.7	-19.4	303.17	23.1
1,300.0	0.55	296.40	1,299.7	13.3	-20.3	303.26	24.3
1,400.0	0.53	282.75	1,399.7	13.6	-21.2	302.76	25.2
1,500.0	0.40	285.60	1,499.7	13.8	-22.0	302.18	25.9
1,600.0	0.41	287.30	1,599.7	14.0	-22.6	301.77	26.6
1,700.0	0.14	327.99	1,699.7	14.2	-23.0	301.70	27.1
1,800.0	0.05	13.97	1,799.7	14.4	-23.1	301.90	27.2
1,900.0	0.06	1.69	1,899.7	14.5	-23.1	302.08	27.2
2,000.0	0.07	23.50	1,999.7	14.6	-23.1	302.30	27.3
2,100.0	0.11	13.23	2,099.7	14.7	-23.0	302.62	27.3
2,200.0	0.25	352.42	2,199.7	15.0	-23.0	303.15	27.5
2,300.0	0.12	22.48	2,299.7	15.4	-23.0	303.71	27.7
2,400.0	0.37	32.45	2,399.7	15.7	-22.8	304.59	27.7
2,500.0	0.78	42.16	2,499.7	16.5	-22.2	306.66	27.6
2,600.0	0.94	43.17	2,599.7	17.6	-21.2	309.77	27.5
2,700.0	1.31	43.93	2,699.7	19.0	-19.8	313.86	27.5
2,800.0	1.77	50.91	2,799.6	20.8	-17.8	319.46	27.4
2,900.0	1.58	51.39	2,899.6	22.7	-15.5	325.57	27.5
3,000.0	1.47	48.36	2,999.5	24.4	-13.5	331.03	27.9
3,100.0	1.37	53.41	3,099.5	25.9	-11.6	335.95	28.4
3,200.0	1.15	49.55	3,199.5	27.3	-9.9	340.16	29.0
3,300.0	1.01	49.08	3,299.5	28.5	-8.4	343.55	29.7
3,400.0	0.96	44.14	3,399.5	29.7	-7.2	346.43	30.6
3,500.0	1.00	43.29	3,499.4	30.9	-6.0	349.04	31.5
3,600.0	0.92	43.35	3,599.4	32.2	-4.8	351.44	32.5
3,700.0	0.96	44.66	3,699.4	33.3	-3.7	353.67	33.5
3,800.0	0.97	41.53	3,799.4	34.6	-2.6	355.78	34.7
3,900.0	0.82	40.46	3,899.4	35.7	-1.5	357.56	35.8
4,000.0	0.79	42.70	3,999.4	36.8	-0.6	359.08	36.8
4,100.0	0.72	39.54	4,099.4	37.8	0.3	0.42	37.8
4,200.0	0.61	42.17	4,199.4	38.7	1.0	1.53	38.7
4,300.0	0.41	38.87	4,299.4	39.3	1.6	2.35	39.4
4,400.0	0.53	45.49	4,399.4	39.9	2.2	3.11	40.0
4,500.0	0.45	48.45	4,499.4	40.5	2.8	3.94	40.6
4,600.0	0.45	42.81	4,599.4	41.1	3.4	4.67	41.2
4,700.0	0.43	47.38	4,699.4	41.6	3.9	5.35	41.8
4,800.0	0.43	50.57	4,799.3	42.1	4.5	6.05	42.3
4,900.0	0.50	51.21	4,899.3	42.6	5.1	6.81	42.9
5,000.0	0.49	55.55	4,999.3	43.1	5.8	7.64	43.5
5,100.0	0.43	49.54	5,099.3	43.6	6.4	8.38	44.1
5,200.0	0.44	53.22	5,199.3	44.1	7.0	9.04	44.6
5,300.0	0.35	59.74	5,299.3	44.5	7.6	9.68	45.1
5,400.0	0.32	49.88	5,399.3	44.8	8.1	10.20	45.5
5,500.0	0.35	55.92	5,499.3	45.2	8.5	10.70	46.0

Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cockburn "G" Federal #5H
Project:	Mescalero Escarpe	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Lea County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Cockburn "G" Federal #5H	North Reference:	Grid
Wellbore:	VH - Job #32K0111073	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0111073	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,600.0	0.31	49.66	5,599.3	45.5	9.0	11.17	46.4
5,700.0	0.31	25.81	5,699.3	45.9	9.3	11.46	46.9
5,800.0	0.36	42.10	5,799.3	46.4	9.6	11.74	47.4
5,900.0	0.37	35.87	5,899.3	46.9	10.0	12.09	48.0
6,000.0	0.38	35.87	5,999.3	47.4	10.4	12.40	48.6
6,100.0	0.23	35.42	6,099.3	47.9	10.7	12.64	49.1
6,200.0	0.24	28.69	6,199.3	48.2	11.0	12.80	49.4
6,300.0	0.39	52.12	6,299.3	48.6	11.3	13.11	49.9
6,400.0	0.53	49.67	6,399.3	49.1	11.9	13.67	50.5
6,500.0	0.56	46.72	6,499.3	49.7	12.7	14.27	51.3
6,600.0	0.56	52.59	6,599.3	50.4	13.4	14.89	52.1
6,700.0	0.58	53.30	6,699.3	51.0	14.2	15.55	52.9
6,800.0	1.28	43.73	6,799.3	52.1	15.4	16.44	54.3
6,900.0	1.65	43.03	6,899.3	53.9	17.1	17.61	56.6
7,000.0	2.19	41.17	6,999.2	56.4	19.4	18.94	59.7
7,100.0	3.03	57.93	7,099.1	59.3	22.9	21.09	63.5
7,200.0	3.80	63.23	7,198.9	62.2	28.1	24.29	68.2
7,300.0	3.94	68.31	7,298.7	64.9	34.2	27.78	73.4
7,400.0	3.77	70.46	7,398.5	67.3	40.5	31.04	78.6
7,500.0	3.35	70.30	7,498.3	69.4	46.3	33.74	83.4
7,600.0	2.18	63.89	7,598.1	71.2	50.8	35.51	87.5
7,700.0	1.87	79.34	7,698.1	72.4	54.1	36.80	90.4
7,800.0	1.70	74.20	7,798.0	73.1	57.1	38.03	92.8
7,900.0	1.56	71.64	7,898.0	73.9	59.9	39.02	95.1
8,000.0	1.38	77.44	7,998.0	74.6	62.3	39.89	97.2
8,100.0	1.31	71.03	8,097.9	75.2	64.6	40.66	99.1
8,200.0	1.53	65.72	8,197.9	76.1	66.9	41.30	101.3
8,300.0	1.11	63.72	8,297.9	77.1	69.0	41.81	103.5
8,400.0	1.01	61.74	8,397.9	78.0	70.6	42.17	105.2
8,500.0	0.98	50.73	8,497.8	78.9	72.1	42.40	106.9
8,565.0	0.50	30.94	8,562.8	79.5	72.6	42.41	107.7



Scientific Drilling
Directional Drilling Operations

Project: Mescalero Escarpe
Lea County, NM
Well: Cockburn "G" Federal #5H
Wellbore: VH - Job #32K0111073
Design: VH - Job #32K0111073

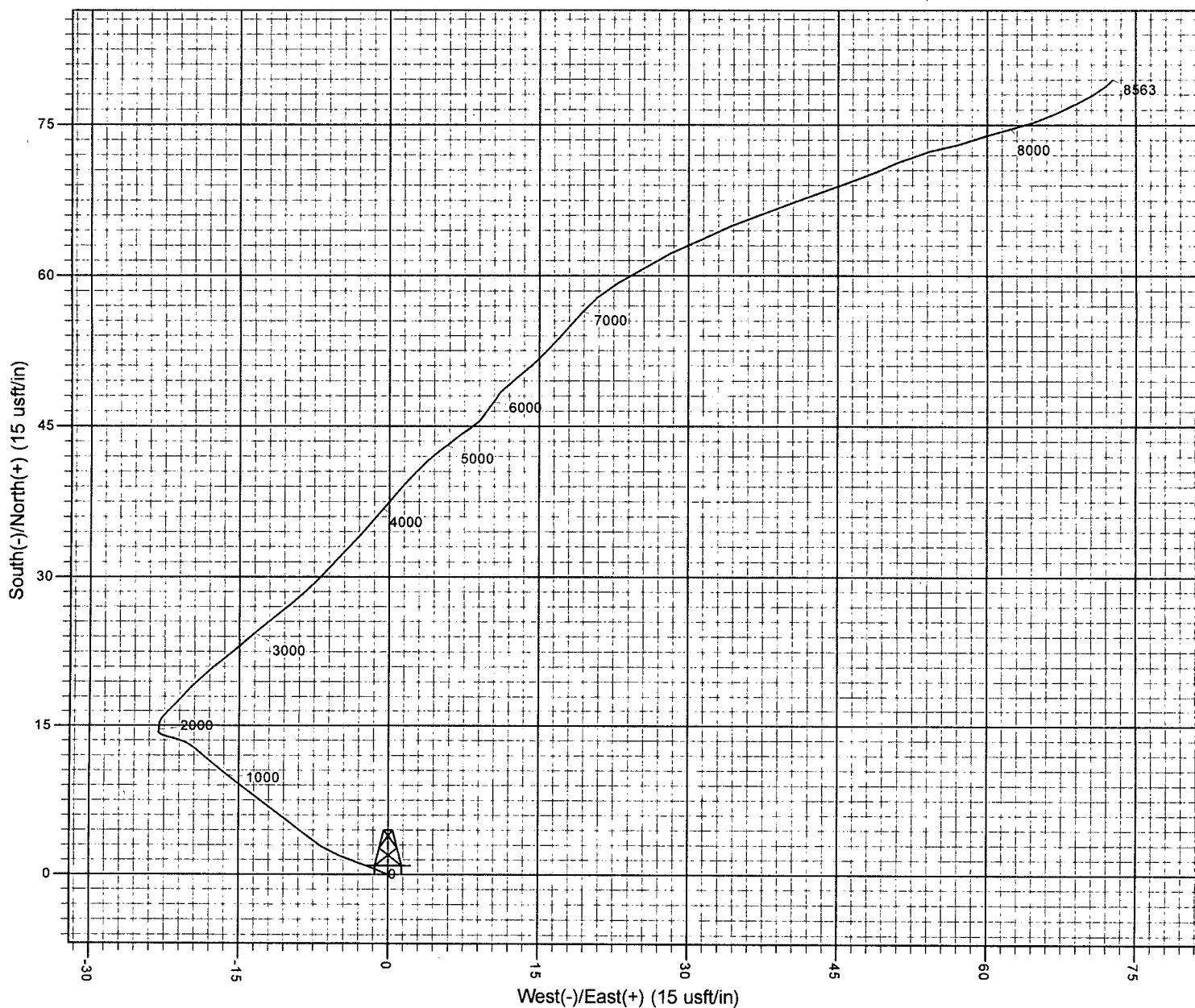


Azimuths to Grid North
True North: -0.36°
Magnetic North: 7.41°

Magnetic Field
Strength: 49033.3snT
Dip Angle: 60.69°
Date: 1/24/2011
Model: BGGM2010

WELL DETAILS: Cockburn "G" Federal #5H
WELL @ 0.0usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	640637.85	707474.82	$32^\circ 45' 33.800\text{ N}$	$103^\circ 39' 30.360\text{ W}$	



PROJECT DETAILS: Mescalero Escarpe
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

SITE DETAILS: Lea County, NM
Site Centre Latitude: $32^\circ 45' 21.600\text{ N}$
Longitude: $103^\circ 39' 7.200\text{ W}$
Positional Uncertainty: 0.0
Convergence: 0.37
Local North: Grid