

WELL LOGS

K z

API number:	30-025-38896	
OGRID:		Operator: CIMAREX ENERGY CO
		Property: CHALLENGER 24 FEE # 2

surface	ULSTR: M	24	T	15S	R	37E
		480	FSL	480	FWL	

BH Loc	ULSTR: L	24	T	15S	R	37E
		2301	FSL	499	FWL	

Ground Level:	3769	DF:	3793	KB:	3792	
Datum:	KB			TD:	9825	Pilot Hole

Land: FEE	Completion Date: (1)	8/26/2008	
	Date Logs Received:	12/10/2008	***LATE***
	Date C105 Received:	12/8/2008	***LATE***
	Date Logs/C105 Due in: (2)	9/15/2008	

Confidential:	NO		Date out:	
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
DSN/SDL	200	9697	Spectral Density Dual Spaced Neutron
DLL/MGRD	4400	9697	Dual Laterolog Micro Guard Log
CBL	3900	9515	Cement Bond Log

K z

OCD TOPS

Rustler	2134	Strawn		
Tansill		Atoka		
Yates	3160	Morrow		
7R	3437			
T Bowers Sd				
B. Bowers Sd				
Queen	3962			
Penrose				
Grayburg				
San Andres				
Glorieta	6674			
Tubb	7473			
Drinkard	7740			
Abo	8213			
Wolfcamp	9412			

Results of Directional Survey

API number:	30-025-38896		
OGRID:		Operator:	CIMAREX ENERGY CO
		Property:	CHALLENGER 24 FEE # 2

surface	ULSTR.	M	24	T	15S	R	37E
			480	FSL		480	FWL

BH Loc	ULSTR:	L	24	T	15S	R	37E
			2301	FSL		499	FWL

	MD	N/S	E/W	VD
	9100	56.15	-7.14	9098.41
TOP PERFS/OH	9122	57.32	-7.28	9120.37
	9200	61.47	-7.76	9198.24
	10769	1522.73	15.83	9401.79
BOT PERFS/OH	10800	1553.72	16.26	9401.82
	10801	1554.72	16.27	9401.82

NEXT TO LAST	10991	1744.71	17.60	9399.94
LAST READING	11026	1779.69	18.12	9399.09
TD	11067	1820.67	18.73	9398.09

Surface Location	480	FS	480	FW
Projected BHL	2301	FS	499	FW
Location of				
Top Perfs/OH	537	FS	473	FW
Bottom Perfs/OH	2034	FS	496	FW

SUMMARY of Subsurface Locations

Surface Location	M-24-15S-37E	480	FS	480	FW	Vert. Depth
Top Perfs/OH	M-24-15S-37E	537	FS	473	FW	9120.37
Bottom Perfs/OH	L-24-15S-37E	2034	FS	496	FW	9401.82
Projected TD	L-24-15S-37E	2301	FS	499	FW	9398.09

OPERATOR
WELL/LEASE
COUNTY

Cimarex Energy
Challenger 24 Fee 2
Lea

RIG 75

STATE OF NEW MEXICO
DEVIATION REPORT

298	0.50
632	0.50
1,119	0.50
1,657	0.50
2,166	0.75
2,673	1.00
3,119	0.50
3,646	0.75
4,010	0.50
4,453	1.00
5,010	0.75
5,486	1.00
6,090	0.75
6,432	1.00
6,982	1.25
7,490	0.50
7,966	0.50
8,442	0.75
8,950	1.00
9,443	1.25
9,825	1.00

SUR: M-24-15s-37e, 480/S & 480/W
BHL: L-24-15s-37e, 2301/S & 499/W
API # 30-025-38896

STATE OF TEXAS

COUNTY OF MIDLAND

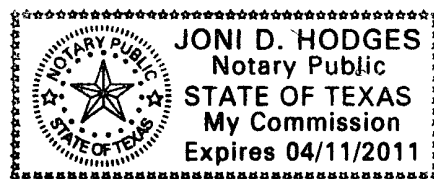
BY: Steve Moore

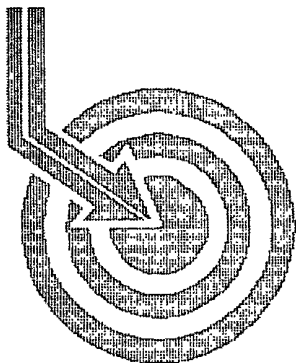
The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTL Drilling Company LLC.

June 25th, 2008, by Steve

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/11/11

KZ





Scientific Drilling

SUR: M-24-15s-37e, 480/S & 480/W
BHL: L-24-15s-37e, 2301/S & 499/W
API # 30-025-38896

CIMAREX ENERGY

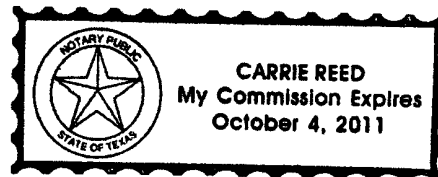
Field: Denton
Site: Lea County, NM
Well: Challenger 24 Fee #2
Wellpath: VH - Job #32K0708575
Survey: 07/22/08

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

.....Luwhart..... Company Representative

Notorized this date 21st of August, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: CIMAREX ENERGY
Field: Denton
Site: Lea County, NM
Well: Challenger 24 Fee #2
Wellpath: VH - Job #32K0708575

Date: 08/20/2008 Time: 16:55:38 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,350.69Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 07/22/08 Start Date: 07/22/2008
KSRG 0'-9400'
Company: Scientific Drilling Internatio Engineer: Madrid/Williams w/Halliburton
Tool: Keeper; Keeper Gyro Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.04	61.46	100.00	0.01	0.02	0.03	0.04	0.03	61.46
200.00	0.31	246.32	200.00	-0.04	-0.08	-0.19	0.35	0.20	248.01
300.00	0.44	206.42	300.00	-0.42	-0.53	-0.61	0.28	0.80	228.90
400.00	0.55	198.82	399.99	-1.16	-1.33	-0.93	0.13	1.62	215.06
500.00	0.75	203.77	499.99	-2.13	-2.38	-1.35	0.21	2.74	209.56
600.00	0.69	202.76	599.98	-3.19	-3.53	-1.85	0.06	3.99	207.59
700.00	0.48	197.03	699.97	-4.07	-4.49	-2.20	0.22	5.00	206.13
800.00	0.74	155.55	799.97	-5.07	-5.48	-2.06	0.50	5.85	200.58
900.00	0.81	159.37	899.96	-6.39	-6.73	-1.54	0.09	6.90	192.90
1000.00	0.66	137.95	999.95	-7.57	-7.82	-0.91	0.31	7.87	186.61
1100.00	0.95	134.64	1099.94	-8.72	-8.83	0.07	0.29	8.83	179.55
1200.00	0.99	139.48	1199.93	-10.13	-10.07	1.22	0.09	10.14	173.08
1300.00	1.17	138.76	1299.91	-11.74	-11.49	2.46	0.18	11.75	167.94
1400.00	1.18	141.63	1399.89	-13.50	-13.06	3.77	0.06	13.60	163.92
1500.00	1.40	142.01	1499.86	-15.47	-14.83	5.16	0.22	15.71	160.83
1600.00	1.36	144.57	1599.83	-17.61	-16.76	6.60	0.07	18.02	158.52
1700.00	1.38	145.71	1699.81	-19.77	-18.73	7.96	0.03	20.35	156.96
1800.00	1.43	147.16	1799.78	-22.00	-20.77	9.32	0.06	22.76	155.83
1900.00	1.39	147.59	1899.75	-24.26	-22.84	10.65	0.04	25.20	155.01
2000.00	1.30	146.62	1999.72	-26.41	-24.81	11.92	0.09	27.53	154.34
2100.00	1.19	145.94	2099.69	-28.39	-26.62	13.13	0.11	29.68	153.75
2200.00	1.09	145.24	2199.67	-30.20	-28.26	14.25	0.10	31.65	153.24
2300.00	1.02	150.48	2299.66	-31.89	-29.82	15.23	0.12	33.48	152.94
2400.00	0.96	147.44	2399.64	-33.49	-31.30	16.12	0.08	35.21	152.75
2500.00	0.98	154.54	2499.63	-35.09	-32.78	16.94	0.12	36.90	152.67
2600.00	1.02	152.96	2599.61	-36.75	-34.34	17.71	0.05	38.64	152.72
2700.00	0.91	159.36	2699.60	-38.38	-35.88	18.40	0.15	40.32	152.85
2800.00	0.74	158.29	2799.59	-39.79	-37.22	18.91	0.17	41.75	153.06
2900.00	0.66	168.88	2899.58	-41.00	-38.39	19.26	0.15	42.95	153.35
3000.00	0.58	167.81	2999.57	-42.08	-39.45	19.48	0.08	43.99	153.72
3100.00	0.41	172.41	3099.57	-42.94	-40.30	19.64	0.17	44.83	154.02
3200.00	0.11	141.95	3199.57	-43.38	-40.73	19.74	0.32	45.26	154.14
3300.00	0.46	111.21	3299.57	-43.67	-40.95	20.18	0.37	45.65	153.77
3400.00	0.35	120.51	3399.57	-44.07	-41.25	20.81	0.13	46.20	153.22
3500.00	0.17	90.56	3499.57	-44.29	-41.40	21.23	0.22	46.53	152.86
3600.00	0.53	59.51	3599.56	-44.15	-41.17	21.77	0.39	46.57	152.13
3700.00	0.56	49.62	3699.56	-43.73	-40.62	22.54	0.10	46.45	150.97
3800.00	0.64	46.25	3799.55	-43.16	-39.92	23.32	0.09	46.23	149.71
3900.00	0.62	27.16	3899.55	-42.41	-39.05	23.97	0.21	45.82	148.46
4000.00	0.78	36.21	3999.54	-41.50	-38.02	24.62	0.19	45.29	147.08
4100.00	0.78	41.95	4099.53	-40.60	-36.96	25.48	0.08	44.89	145.42
4200.00	0.83	42.04	4199.52	-39.72	-35.92	26.42	0.05	44.59	143.67
4300.00	0.86	44.70	4299.51	-38.83	-34.85	27.43	0.05	44.35	141.79
4400.00	0.88	36.99	4399.50	-37.85	-33.70	28.42	0.12	44.08	139.86
4500.00	0.79	22.59	4499.49	-36.74	-32.45	29.14	0.23	43.62	138.07
4600.00	0.86	1.89	4599.48	-35.42	-31.06	29.43	0.30	42.79	136.54
4700.00	1.16	352.23	4699.46	-33.67	-29.31	29.32	0.34	41.46	134.99
4800.00	1.49	345.40	4799.44	-31.36	-27.05	28.86	0.37	39.55	133.15

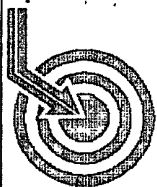


Scientific Drilling International Survey Report

Company: CIMAREX ENERGY	Date: 08/20/2008	Time: 16:55:38	Page: 2
Field: Denton	Co-ordinate(NE) Reference:	Site: Lea County, NM, True North	
Site: Lea County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Challenger 24 Fee #2	Section (VS) Reference:	Well (0.00N,0.00E,350.69Azi)	
Wellpath: VH - Job #32K0708575	Survey Calculation Method:	Minimum Curvature	Db: Sybase

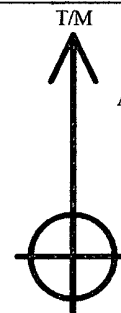
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.72	339.08	4899.40	-28.60	-24.39	27.99	0.29	37.13	131.06
5000.00	1.65	336.56	4999.35	-25.73	-21.67	26.89	0.10	34.53	128.87
5100.00	1.65	342.13	5099.31	-22.91	-18.98	25.87	0.16	32.08	126.26
5200.00	1.64	343.99	5199.27	-20.07	-16.23	25.03	0.05	29.84	122.96
5300.00	1.68	345.30	5299.23	-17.19	-13.44	24.27	0.06	27.74	118.97
5400.00	1.59	345.76	5399.19	-14.34	-10.67	23.55	0.09	25.86	114.38
5500.00	1.49	348.36	5499.15	-11.66	-8.06	22.95	0.12	24.32	109.34
5600.00	1.48	350.24	5599.12	-9.07	-5.51	22.47	0.05	23.14	103.78
5700.00	1.45	352.09	5699.09	-6.52	-2.98	22.08	0.06	22.28	97.70
5800.00	1.37	352.73	5799.05	-4.06	-0.54	21.75	0.08	21.76	91.44
5900.00	1.40	352.85	5899.03	-1.64	1.85	21.45	0.03	21.53	85.06
6000.00	1.38	346.99	5999.00	0.78	4.24	21.03	0.14	21.45	78.60
6100.00	1.23	348.08	6098.97	3.05	6.46	20.53	0.15	21.53	72.53
6200.00	1.09	339.99	6198.95	5.06	8.41	19.99	0.22	21.68	67.19
6300.00	1.07	339.80	6298.93	6.91	10.18	19.34	0.02	21.85	62.25
6400.00	1.08	336.92	6398.91	8.75	11.92	18.65	0.05	22.13	57.41
6500.00	1.15	338.36	6498.90	10.64	13.72	17.91	0.08	22.56	52.54
6600.00	1.12	340.06	6598.88	12.58	15.57	17.20	0.05	23.20	47.85
6700.00	1.00	335.76	6698.86	14.39	17.28	16.51	0.14	23.90	43.69
6800.00	0.97	337.14	6798.84	16.05	18.86	15.82	0.04	24.62	40.00
6900.00	0.95	338.07	6898.83	17.68	20.41	15.19	0.03	25.44	36.65
7000.00	0.94	333.41	6998.82	19.28	21.91	14.51	0.08	26.28	33.51
7100.00	1.02	329.94	7098.80	20.89	23.42	13.70	0.10	27.13	30.32
7200.00	1.04	333.00	7198.79	22.59	24.99	12.84	0.06	28.10	27.19
7300.00	1.03	333.64	7298.77	24.31	26.61	12.03	0.02	29.20	24.32
7400.00	0.93	334.89	7398.75	25.95	28.15	11.28	0.10	30.33	21.84
7500.00	0.90	331.34	7498.74	27.47	29.57	10.56	0.06	31.40	19.65
7600.00	0.93	331.36	7598.73	28.98	30.97	9.80	0.03	32.49	17.55
7700.00	1.08	326.94	7698.71	30.61	32.48	8.89	0.17	33.67	15.31
7800.00	1.04	325.40	7798.70	32.29	34.01	7.86	0.05	34.91	13.02
7900.00	1.07	323.57	7898.68	33.94	35.51	6.79	0.05	36.16	10.83
8000.00	1.09	319.90	7998.66	35.59	36.99	5.63	0.07	37.42	8.65
8100.00	1.07	317.00	8098.64	37.19	38.40	4.38	0.06	38.65	6.50
8200.00	1.00	316.86	8198.63	38.69	39.72	3.14	0.07	39.84	4.53
8300.00	1.20	317.50	8298.61	40.29	41.13	1.84	0.20	41.17	2.56
8400.00	1.20	319.65	8398.59	42.06	42.70	0.45	0.05	42.70	0.61
8500.00	1.39	322.15	8498.56	44.03	44.45	-0.97	0.20	44.47	358.75
8600.00	1.48	331.43	8598.53	46.31	46.55	-2.33	0.25	46.60	357.14
8700.00	1.25	332.73	8698.50	48.57	48.65	-3.45	0.23	48.77	355.95
8800.00	1.26	338.28	8798.48	50.68	50.64	-4.35	0.12	50.83	355.09
8900.00	1.22	335.97	8898.45	52.78	52.63	-5.19	0.06	52.89	354.36
9000.00	1.15	331.43	8998.43	54.76	54.49	-6.11	0.12	54.83	353.60
9100.00	1.10	324.52	9098.41	56.57	56.15	-7.14	0.14	56.60	352.75
9200.00	1.13	322.87	9198.40	58.30	57.72	-8.30	0.04	58.31	351.82
9300.00	1.04	326.99	9298.38	60.00	59.27	-9.39	0.12	60.00	351.00
9400.00	0.78	353.96	9398.37	61.51	60.70	-9.95	0.49	61.51	350.69



Scientific
Drilling

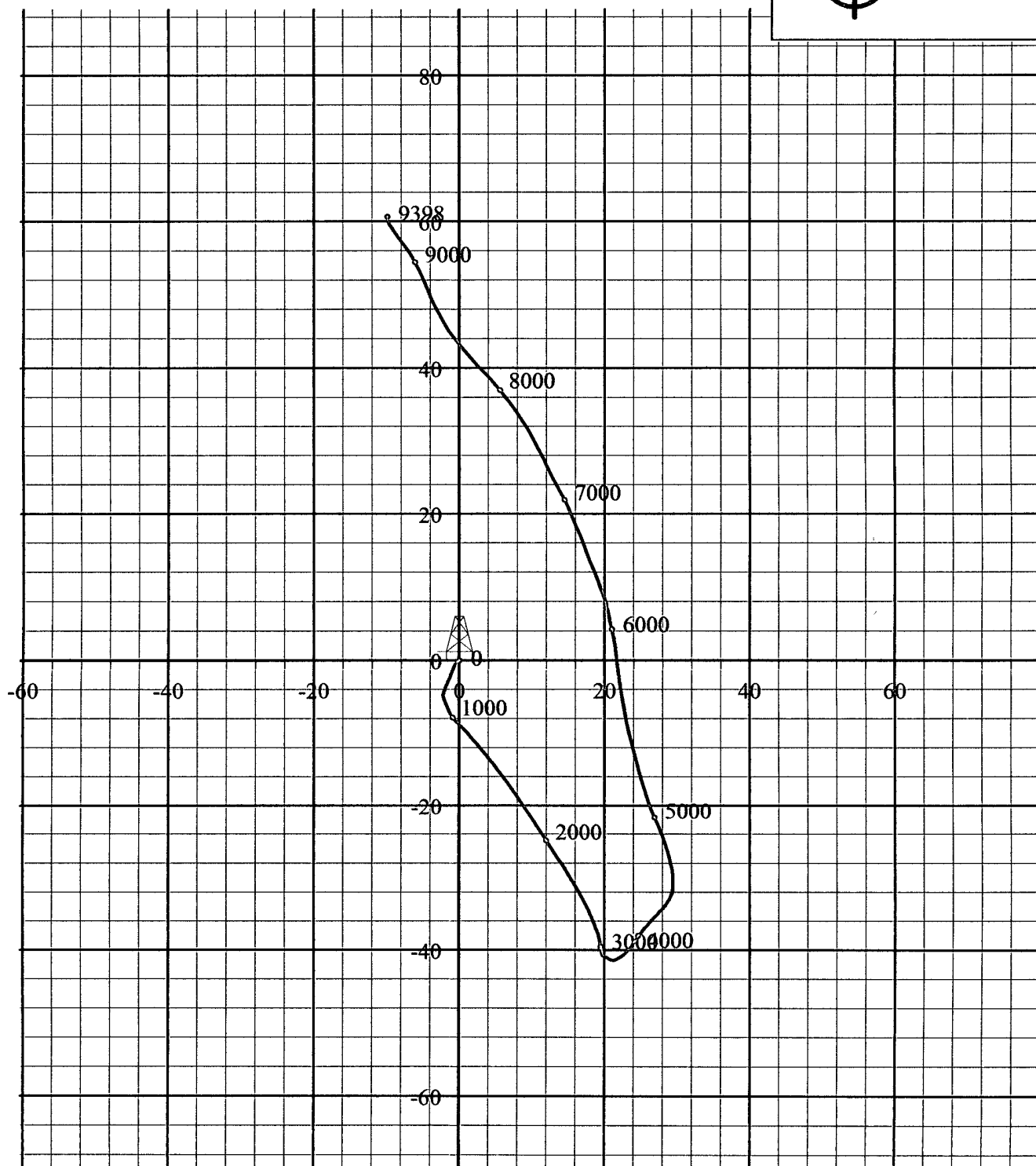
Field: Denton
Site: Lea County, NM
Well: Challenger 24 Fee #2
Wellpath: VH - Job #32K0708575
Survey: 07/22/08



Azimuths to True North
Magnetic North: 0.00°

Magnetic Field
Strength: 0nT
Dip Angle: 0.00°
Date: 08/20/2008
Model: igrf2000

South(-)/North(+) [20ft/in]



West(-)/East(+) [20ft/in]

CIMAREX

CHALLENGER 24 FEE #2 LEA COUNTY, NEW MEXICO



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9177.50	1.12	323.23	9175.90	57.37	-8.03	0.00	0.00	57.37	
2	9190.00	3.12	323.23	9188.39	57.74	-8.31	16.00	0.00	57.74	
3	9195.00	3.12	323.23	9193.38	57.95	-8.47	0.00	0.00	57.95	
4	9518.69	90.00	0.49	9396.00	269.73	-13.35	27.04	37.30	269.73	
5	11079.02	90.00	0.49	9396.00	1830.00	0.00	0.00	0.00	1830.00	P4

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#2	0.00	0.00	728415.40	900849.70	32°59'48.857N	103°09'38.688W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
P4	9396.00	1830.00	0.00	730245.29	900829.30	Point

FIELD DETAILS

Lea Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico, Eastern Zone
 Magnetic Model: bggm2007

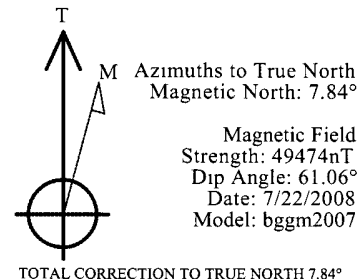
System Datum: Mean Sea Level
 Local North: True North

SITE DETAILS

Challenger 24 Fee #2
 480' FSL 480' FWL of SEC 24, T-15-S, R-37-E

Site Centre Northing: 728415.40
 Easting: 900849.70

Ground Level: 3769.00
 Positional Uncertainty: 0.00
 Convergence: 0.64

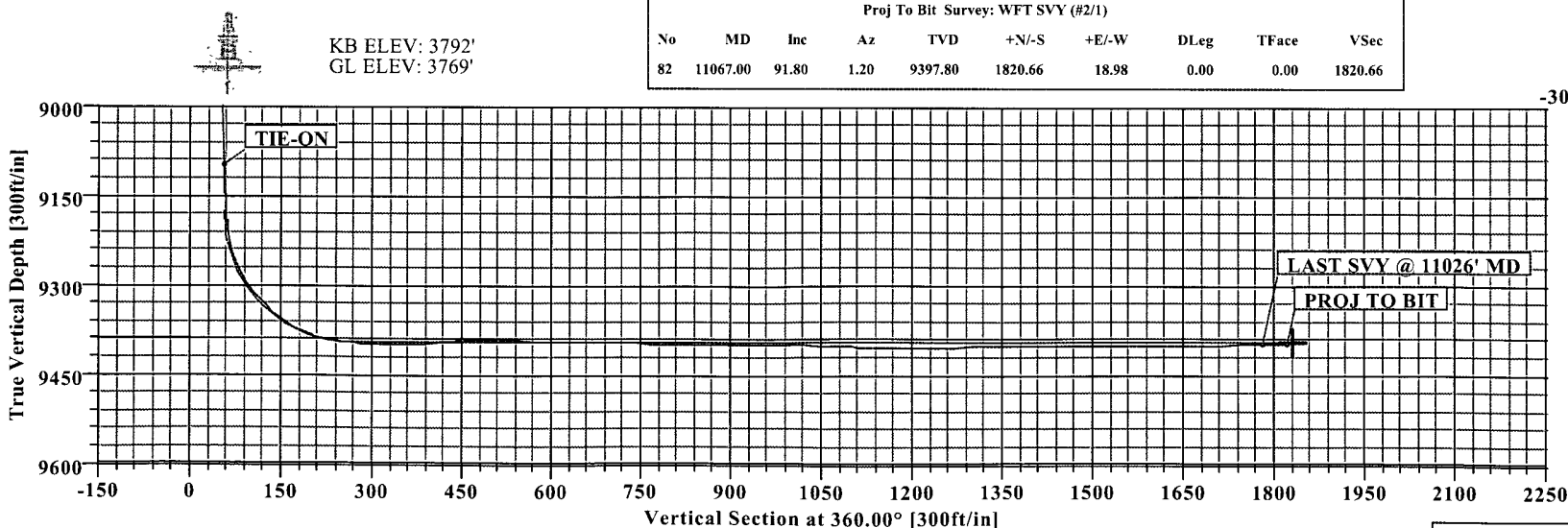
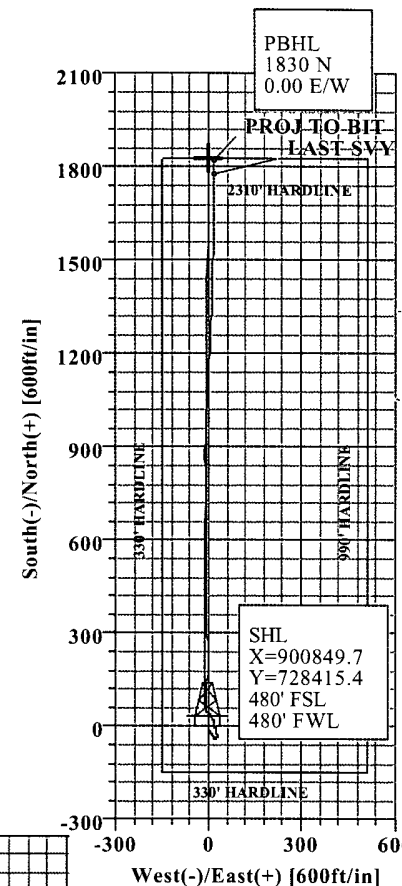


FORMATION TOP DETAILS

No	TVDPath	MDPath	Formation
1	9388.00	9457.78	Wolfcamp

LEGEND

== #2.1, Plan #5
 WFT SVY



Proj To Bit Survey: WFT SVY (#2/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
82	11067.00	91.80	1.20	9397.80	1820.66	18.98	0.00	0.00	1820.66

Survey: WFT SVY (#2/1)

Created By: Lindsey Maddux

Date: 8/5/2008



Weatherford International, Inc.

Survey Report

Company: Cimarex Date: 8/5/2008 Time: 11:23:33 Page: 1
Field: Lea Co., NM (NAD 83) Co-ordinate(NE) Reference: Site: Challenger 24 Fee #2, True North
Site: Challenger 24 Fee #2 Vertical (TVD) Reference: SITE 3792.0
Well: #2 Section (VS) Reference: Well (0.00N,0.00E,360.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Lea Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Site Centre
Geomagnetic Model: bggm2007

Site: Challenger 24 Fee #2

480' FSL 480' FWL of SEC 24, T-15-S, R-37-E

Site Position: Northing: 728415.40 ft Latitude: 32 59 48.857 N
From: Map Easting: 900849.70 ft Longitude: 103 9 38.688 W
Position Uncertainty: 0.00 ft North Reference: True
Ground Level: 3769.00 ft Grid Convergence: 0.64 deg

Well: #2

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 728415.40 ft Latitude: 32 59 48.857 N
+E/-W 0.00 ft Easting: 900849.70 ft Longitude: 103 9 38.688 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface

Current Datum: SITE Height 3792.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 7/22/2008 Above System Datum: Mean Sea Level
Field Strength: 49474 nT Declination: 7.84 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
ft ft ft deg
0.00 0.00 0.00 360.00

Survey: WFT SVY

Start Date: 7/31/2008

Company: Weatherford International Ltd.
Tool: MWD;MWD - Standard

Engineer: Jayme Wilson
Tied-to: User Defined

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9100.00	1.10	324.52	9098.41	56.15	-7.14	56.15	0.00	0.00	0.00	TIE-ON
9200.00	5.20	359.20	9198.24	61.47	-7.76	61.47	4.34	4.10	34.68	MWD
9210.00	8.20	358.90	9208.17	62.63	-7.78	62.63	30.00	30.00	-3.00	MWD
9229.00	12.80	1.00	9226.85	66.09	-7.77	66.09	24.29	24.21	11.05	MWD
9245.00	17.10	2.60	9242.31	70.22	-7.63	70.22	27.00	26.87	10.00	MWD
9261.00	21.10	4.00	9257.42	75.44	-7.32	75.44	25.16	25.00	8.75	MWD
9277.00	25.30	3.80	9272.12	81.73	-6.90	81.73	26.25	26.25	-1.25	MWD
9293.00	29.10	2.90	9286.35	89.03	-6.47	89.03	23.89	23.75	-5.62	MWD
9298.00	30.50	2.60	9290.69	91.51	-6.35	91.51	28.16	28.00	-6.00	MWD
9309.00	33.40	2.40	9300.02	97.33	-6.10	97.33	26.38	26.36	-1.82	MWD
9325.00	37.30	2.40	9313.07	106.57	-5.71	106.57	24.37	24.37	0.00	MWD
9330.00	38.70	2.60	9317.01	109.65	-5.58	109.65	28.11	28.00	4.00	MWD
9340.00	41.20	2.70	9324.68	116.06	-5.28	116.06	25.01	25.00	1.00	MWD
9357.00	45.20	3.30	9337.07	127.68	-4.67	127.68	23.65	23.53	3.53	MWD
9367.00	47.50	3.50	9343.97	134.90	-4.24	134.90	23.05	23.00	2.00	MWD
9379.00	50.70	3.50	9351.82	143.96	-3.69	143.96	26.67	26.67	0.00	MWD
9405.00	58.00	2.40	9366.97	165.04	-2.61	165.04	28.29	28.08	-4.23	MWD
9411.00	60.00	2.00	9370.06	170.18	-2.41	170.18	33.82	33.33	-6.67	MWD
9426.00	64.40	1.20	9377.05	183.44	-2.04	183.44	29.71	29.33	-5.33	MWD
9443.00	70.20	0.50	9383.61	199.11	-1.81	199.11	34.33	34.12	-4.12	MWD
9448.00	72.00	0.10	9385.23	203.84	-1.79	203.84	36.79	36.00	-8.00	MWD
9474.00	80.20	359.00	9391.47	229.06	-1.99	229.06	31.80	31.54	-4.23	MWD
9486.00	81.90	359.20	9393.34	240.91	-2.18	240.91	14.26	14.17	1.67	MWD
9496.00	83.40	359.00	9394.62	250.83	-2.33	250.83	15.13	15.00	-2.00	MWD



Weatherford International, Inc.

Survey Report

Company: Cimarex
Field: Lea Co., NM (NAD 83)
Site: Challenger 24 Fee #2
Well: #2
Wellpath: 1

Date: 8/5/2008
Co-ordinate(NE) Reference: Site: Challenger 24 Fee #2, True North
Vertical (TVD) Reference: SITE 3792.0
Section (VS) Reference: Well (0.00N, 0.00E, 360.00Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Page: 2

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
9501.00	84.10	359.00	9395.16	255.80	-2.42	255.80	14.00	14.00	0.00	MWD
9505.00	84.40	359.00	9395.56	259.78	-2.49	259.78	7.50	7.50	0.00	MWD
9510.00	85.40	358.90	9396.01	264.76	-2.58	264.76	20.10	20.00	-2.00	MWD
9515.00	86.30	358.50	9396.37	269.74	-2.69	269.74	19.69	18.00	-8.00	MWD
9525.00	87.60	358.70	9396.90	279.72	-2.94	279.72	13.15	13.00	2.00	MWD
9537.00	88.90	358.40	9397.27	291.71	-3.24	291.71	11.12	10.83	-2.50	MWD
9542.00	89.10	358.40	9397.35	296.71	-3.38	296.71	4.00	4.00	0.00	MWD
9552.00	89.10	358.50	9397.51	306.71	-3.65	306.71	1.00	0.00	1.00	MWD
9568.00	89.20	358.70	9397.75	322.70	-4.04	322.70	1.40	0.62	1.25	MWD
9600.00	90.00	359.00	9397.97	354.69	-4.68	354.69	2.67	2.50	0.94	MWD
9632.00	93.20	359.60	9397.08	386.67	-5.08	386.67	10.17	10.00	1.87	MWD
9662.00	94.20	0.30	9395.14	416.61	-5.10	416.61	4.07	3.33	2.33	MWD
9694.00	92.20	0.50	9393.36	448.56	-4.88	448.56	6.28	-6.25	0.62	MWD
9726.00	90.10	0.50	9392.71	480.55	-4.60	480.55	6.56	-6.56	0.00	MWD
9758.00	89.10	0.50	9392.94	512.55	-4.32	512.55	3.12	-3.12	0.00	MWD
9789.00	88.00	0.30	9393.72	543.54	-4.10	543.54	3.61	-3.55	-0.65	MWD
9820.00	89.10	0.50	9394.51	574.52	-3.89	574.52	3.61	3.55	0.65	MWD
9852.00	88.90	359.90	9395.06	606.52	-3.78	606.52	1.98	-0.62	-1.88	MWD
9883.00	89.70	359.40	9395.44	637.52	-3.97	637.52	3.04	2.58	-1.61	MWD
9915.00	90.50	359.20	9395.39	669.51	-4.36	669.51	2.58	2.50	-0.62	MWD
9947.00	89.40	358.90	9395.42	701.51	-4.89	701.51	3.56	-3.44	-0.94	MWD
9962.00	88.30	358.50	9395.72	716.50	-5.23	716.50	7.80	-7.33	-2.67	MWD
9978.00	88.00	358.40	9396.23	732.49	-5.66	732.49	1.98	-1.87	-0.62	MWD
9988.00	88.00	358.50	9396.58	742.48	-5.93	742.48	1.00	0.00	1.00	MWD
10010.00	88.30	358.20	9397.29	764.46	-6.56	764.46	1.93	1.36	-1.36	MWD
10041.00	88.60	357.80	9398.13	795.43	-7.64	795.43	1.61	0.97	-1.29	MWD
10073.00	89.10	357.50	9398.77	827.39	-8.96	827.39	1.82	1.56	-0.94	MWD
10104.00	89.10	359.40	9399.26	858.38	-9.79	858.38	6.13	0.00	6.13	MWD
10136.00	90.30	2.00	9399.43	890.37	-9.40	890.37	8.95	3.75	8.13	MWD
10168.00	90.80	2.40	9399.12	922.34	-8.18	922.34	2.00	1.56	1.25	MWD
10200.00	89.00	2.90	9399.18	954.31	-6.70	954.31	5.84	-5.62	1.56	MWD
10231.00	89.50	2.70	9399.58	985.27	-5.18	985.27	1.74	1.61	-0.65	MWD
10263.00	89.80	2.70	9399.78	1017.23	-3.67	1017.23	0.94	0.94	0.00	MWD
10294.00	87.50	2.40	9400.51	1048.19	-2.30	1048.19	7.48	-7.42	-0.97	MWD
10325.00	87.30	2.40	9401.91	1079.13	-1.00	1079.13	0.65	-0.65	0.00	MWD
10357.00	87.50	2.20	9403.37	1111.07	0.28	1111.07	0.88	0.62	-0.62	MWD
10388.00	90.00	2.00	9404.04	1142.04	1.42	1142.04	8.09	8.06	-0.65	MWD
10419.00	90.50	1.90	9403.91	1173.02	2.47	1173.02	1.64	1.61	-0.32	MWD
10452.00	90.80	2.20	9403.53	1206.00	3.65	1206.00	1.29	0.91	0.91	MWD
10483.00	90.00	2.70	9403.32	1236.97	4.98	1236.97	3.04	-2.58	1.61	MWD
10514.00	90.30	2.70	9403.23	1267.94	6.44	1267.94	0.97	0.97	0.00	MWD
10545.00	90.60	2.90	9402.99	1298.90	7.95	1298.90	1.16	0.97	0.65	MWD
10577.00	90.40	2.60	9402.71	1330.86	9.49	1330.86	1.13	-0.62	-0.94	MWD
10609.00	90.70	2.60	9402.40	1362.83	10.94	1362.83	0.94	0.94	0.00	MWD
10641.00	90.80	2.60	9401.99	1394.79	12.39	1394.79	0.31	0.31	0.00	MWD
10673.00	91.10	2.40	9401.46	1426.76	13.79	1426.76	1.13	0.94	-0.62	MWD
10705.00	89.70	0.80	9401.23	1458.74	14.68	1458.74	6.64	-4.37	-5.00	MWD
10737.00	89.40	1.00	9401.48	1490.74	15.18	1490.74	1.13	-0.94	0.62	MWD
10769.00	89.50	1.30	9401.79	1522.73	15.83	1522.73	0.99	0.31	0.94	MWD
10801.00	90.40	0.30	9401.82	1554.72	16.27	1554.72	4.20	2.81	-3.12	MWD
10832.00	90.40	0.30	9401.60	1585.72	16.44	1585.72	0.00	0.00	0.00	MWD
10864.00	90.40	0.10	9401.38	1617.72	16.55	1617.72	0.62	0.00	-0.62	MWD
10896.00	90.40	0.50	9401.16	1649.72	16.71	1649.72	1.25	0.00	1.25	MWD



Weatherford International, Inc.

Survey Report

Company: Cimarex Date: 8/5/2008 Time: 11:23:33 Page: 3
Field: Lea Co., NM (NAD 83) Co-ordinate(NE) Reference: Site: Challenger 24 Fee #2, True North
Site: Challenger 24 Fee #2 Vertical (TVD) Reference: SITE 3792.0
Well: #2 Section (VS) Reference: Well (0.00N,0.00E,360.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: WFT SVY

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10928.00	90.50	0.60	9400.90	1681.72	17.02	1681.72	0.44	0.31	0.31	MWD
10960.00	91.00	0.50	9400.48	1713.71	17.33	1713.71	1.59	1.56	-0.31	MWD
10991.00	91.00	0.50	9399.94	1744.71	17.60	1744.71	0.00	0.00	0.00	MWD
11026.00	91.80	1.20	9399.09	1779.69	18.12	1779.69	3.04	2.29	2.00	LAST SVY @ 11026' MD
11067.00	91.80	1.20	9397.80	1820.66	18.98	1820.66	0.00	0.00	0.00	PROJ TO BIT

Annotation

MD ft	TVD ft	
9100.00	9098.41	TIE-ON
11026.00	9399.09	LAST SVY @ 11026' MD
11067.00	9397.80	PROJ TO BIT