

OCT 14 2010

MARBOB ENERGY

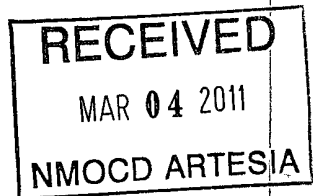
Watkins
Eddy County, NM
Corsair State #2H
VH - Job #32K0910703

30-015-38062

Survey: Actual

SDI Standard Survey Report

12 October, 2010



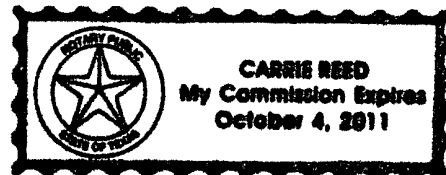
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 13th of October, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report

Company:	MARBOB ENERGY	Local Co-ordinate Reference:	Well Corsair State #2H
Project:	Watkins	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Corsair State #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0910703	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910703	Database:	EDM-Regulatory

Project	Watkins		
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		

Well	Corsair State #2H, Directional (Pathfinder)					
Well Position	+N/-S	0.0 usft	Northing:	616,916.50 usft	Latitude:	32° 41' 42.000 N
	+E/-W	0.0 usft	Easting:	654,227.86 usft	Longitude:	103° 49' 55.200 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	0.0 usft

Wellbore	VH - Job #32K0910703				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	9/16/2010	7.89	60.61	49,011

Design	VH - Job #32K0910703				
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	271.33	

Survey Program	Date	10/12/2010
From	To	
(usft)	(usft)	
100.0	8,430.0	Actual (VH - Job #32K0910703)
Tool Name	Description	
Keeper	Keeper Gyro	

Survey								
Measured Depth	Inclination	Azimuth	True Vertical	North/South	East/West	Closure Azimuth	Closure Distance	
(usft)	(°)	(°)	Depth	(usft)	(usft)	(°)	(usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	
100.0	0.32	283.85	100.0	0.1	-0.3	283.85	0.3	
200.0	0.20	291.64	200.0	0.2	-0.7	285.70	0.7	
300.0	0.18	291.79	300.0	0.3	-1.0	287.58	1.1	
400.0	0.29	314.08	400.0	0.6	-1.3	292.50	1.5	
500.0	0.35	300.96	500.0	0.9	-1.8	296.47	2.0	
600.0	0.41	254.37	600.0	0.9	-2.4	291.65	2.6	
700.0	0.33	235.35	700.0	0.7	-3.0	283.05	3.1	
800.0	0.31	236.41	800.0	0.4	-3.4	276.24	3.5	
900.0	0.29	195.19	900.0	0.0	-3.7	269.72	3.7	
1,000.0	0.40	132.37	1,000.0	-0.5	-3.5	261.98	3.6	
1,100.0	0.35	118.01	1,100.0	-0.9	-3.0	253.75	3.1	
1,200.0	0.29	95.87	1,200.0	-1.0	-2.5	247.18	2.7	
1,300.0	0.27	85.01	1,300.0	-1.1	-2.0	242.26	2.3	
1,400.0	0.22	62.86	1,400.0	-0.9	-1.6	239.37	1.9	
1,500.0	0.19	70.23	1,500.0	-0.8	-1.3	237.73	1.5	
1,600.0	0.21	59.03	1,600.0	-0.6	-1.0	235.74	1.2	

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Well:	Corsair State #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0910703	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910703	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,700.0	0.16	50.73	1,700.0	-0.5	-0.7	235.86	0.8
1,800.0	0.27	22.11	1,800.0	-0.2	-0.5	251.98	0.5
1,900.0	0.53	49.49	1,900.0	0.4	-0.1	351.93	0.4
2,000.0	0.98	51.75	2,000.0	1.2	1.0	39.28	1.5
2,100.0	1.11	47.75	2,100.0	2.4	2.4	44.90	3.3
2,200.0	1.19	56.51	2,199.9	3.6	3.9	47.66	5.3
2,300.0	1.16	56.74	2,299.9	4.7	5.7	50.15	7.4
2,400.0	0.95	35.08	2,399.9	6.0	7.0	49.53	9.2
2,500.0	0.49	29.93	2,499.9	7.0	7.7	47.59	10.4
2,600.0	0.28	7.19	2,599.9	7.6	7.9	46.09	11.0
2,700.0	0.39	248.80	2,699.9	7.7	7.6	44.59	10.9
2,800.0	0.73	206.82	2,799.9	7.0	7.0	44.90	9.9
2,900.0	0.90	218.09	2,899.9	5.9	6.2	46.85	8.6
3,000.0	0.75	217.74	2,999.9	4.7	5.4	48.64	7.1
3,100.0	0.78	219.09	3,099.8	3.7	4.5	50.96	5.8
3,200.0	0.70	219.20	3,199.8	2.7	3.7	54.27	4.6
3,300.0	0.67	226.39	3,299.8	1.8	2.9	58.28	3.4
3,400.0	0.60	233.17	3,399.8	1.1	2.1	62.39	2.3
3,500.0	0.61	246.27	3,499.8	0.6	1.2	64.52	1.3
3,600.0	0.57	246.01	3,599.8	0.1	0.2	58.02	0.3
3,700.0	0.54	247.84	3,699.8	-0.2	-0.7	250.10	0.7
3,800.0	0.55	245.21	3,799.8	-0.6	-1.5	248.05	1.7
3,900.0	0.50	238.03	3,899.8	-1.1	-2.3	245.83	2.6
4,000.0	0.67	242.78	3,999.8	-1.6	-3.2	244.39	3.6
4,100.0	0.58	224.42	4,099.8	-2.2	-4.1	242.06	4.7
4,200.0	0.27	249.42	4,199.8	-2.6	-4.7	240.75	5.4
4,300.0	0.26	235.10	4,299.8	-2.8	-5.1	240.88	5.8
4,400.0	0.15	238.42	4,399.8	-3.0	-5.4	240.61	6.2
4,500.0	0.06	302.51	4,499.8	-3.1	-5.5	240.99	6.3
4,600.0	0.14	8.54	4,599.8	-2.9	-5.6	242.29	6.3
4,700.0	0.20	320.63	4,699.8	-2.7	-5.7	244.75	6.3
4,800.0	0.09	273.28	4,799.8	-2.5	-5.9	246.61	6.4
4,900.0	0.15	285.05	4,899.8	-2.5	-6.1	247.63	6.6
5,000.0	0.26	267.99	4,999.8	-2.5	-6.4	248.95	6.9
5,100.0	0.44	250.35	5,099.8	-2.6	-7.0	249.59	7.5
5,200.0	0.58	245.43	5,199.8	-2.9	-7.8	249.37	8.4
5,300.0	0.88	241.77	5,299.8	-3.5	-9.0	248.56	9.6
5,400.0	0.69	236.28	5,399.8	-4.2	-10.1	247.42	11.0
5,500.0	0.58	269.05	5,499.8	-4.6	-11.1	247.75	12.0
5,600.0	0.42	263.27	5,599.8	-4.6	-12.0	249.01	12.9
5,700.0	0.28	266.85	5,699.7	-4.7	-12.6	249.71	13.5
5,800.0	0.20	269.80	5,799.7	-4.7	-13.0	250.26	13.9
5,900.0	0.06	335.55	5,899.7	-4.6	-13.2	250.71	14.0
6,000.0	0.09	334.11	5,999.7	-4.5	-13.3	251.24	14.0

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Well:	Corsair State #2H	North Reference:	Grid
Wellbore:	VH - Job #32K0910703	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K0910703	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
6,100.0	0.26	48.96	6,099.7	-4.3	-13.2	251.92	13.8
6,200.0	0.34	31.50	6,199.7	-3.9	-12.8	253.12	13.4
6,300.0	0.42	26.76	6,299.7	-3.3	-12.5	255.17	12.9
6,400.0	0.55	13.24	6,399.7	-2.5	-12.2	258.37	12.5
6,500.0	0.32	32.91	6,499.7	-1.8	-12.0	261.37	12.1
6,600.0	0.46	359.68	6,599.7	-1.2	-11.8	264.29	11.9
6,700.0	0.85	315.90	6,699.7	-0.2	-12.3	268.85	12.3
6,800.0	0.88	307.37	6,799.7	0.8	-13.5	273.19	13.5
6,900.0	0.97	294.43	6,899.7	1.6	-14.9	276.02	14.9
7,000.0	0.92	287.38	6,999.7	2.2	-16.4	277.50	16.5
7,100.0	0.84	268.97	7,099.7	2.4	-17.9	277.59	18.0
7,200.0	1.06	240.22	7,199.7	1.9	-19.4	275.62	19.5
7,300.0	1.02	237.83	7,299.7	1.0	-21.0	272.67	21.0
7,400.0	1.18	227.19	7,399.6	-0.2	-22.5	269.50	22.5
7,500.0	1.28	227.40	7,499.6	-1.7	-24.1	266.07	24.1
7,600.0	1.72	227.20	7,599.6	-3.4	-26.0	262.49	26.2
7,700.0	1.73	223.83	7,699.5	-5.5	-28.1	258.87	28.7
7,800.0	1.04	201.36	7,799.5	-7.5	-29.5	255.80	30.4
7,900.0	1.15	193.78	7,899.5	-9.3	-30.1	252.84	31.5
8,000.0	1.88	196.18	7,999.4	-11.8	-30.8	248.96	33.0
8,100.0	2.31	202.74	8,099.4	-15.3	-32.0	244.49	35.5
8,200.0	2.28	202.86	8,199.3	-19.0	-33.6	240.53	38.6
8,300.0	2.16	206.32	8,299.2	-22.5	-35.2	237.41	41.7
8,400.0	1.76	224.31	8,399.2	-25.3	-37.1	235.72	44.9
8,430.0	1.73	213.06	8,429.2	-26.0	-37.7	235.39	45.7



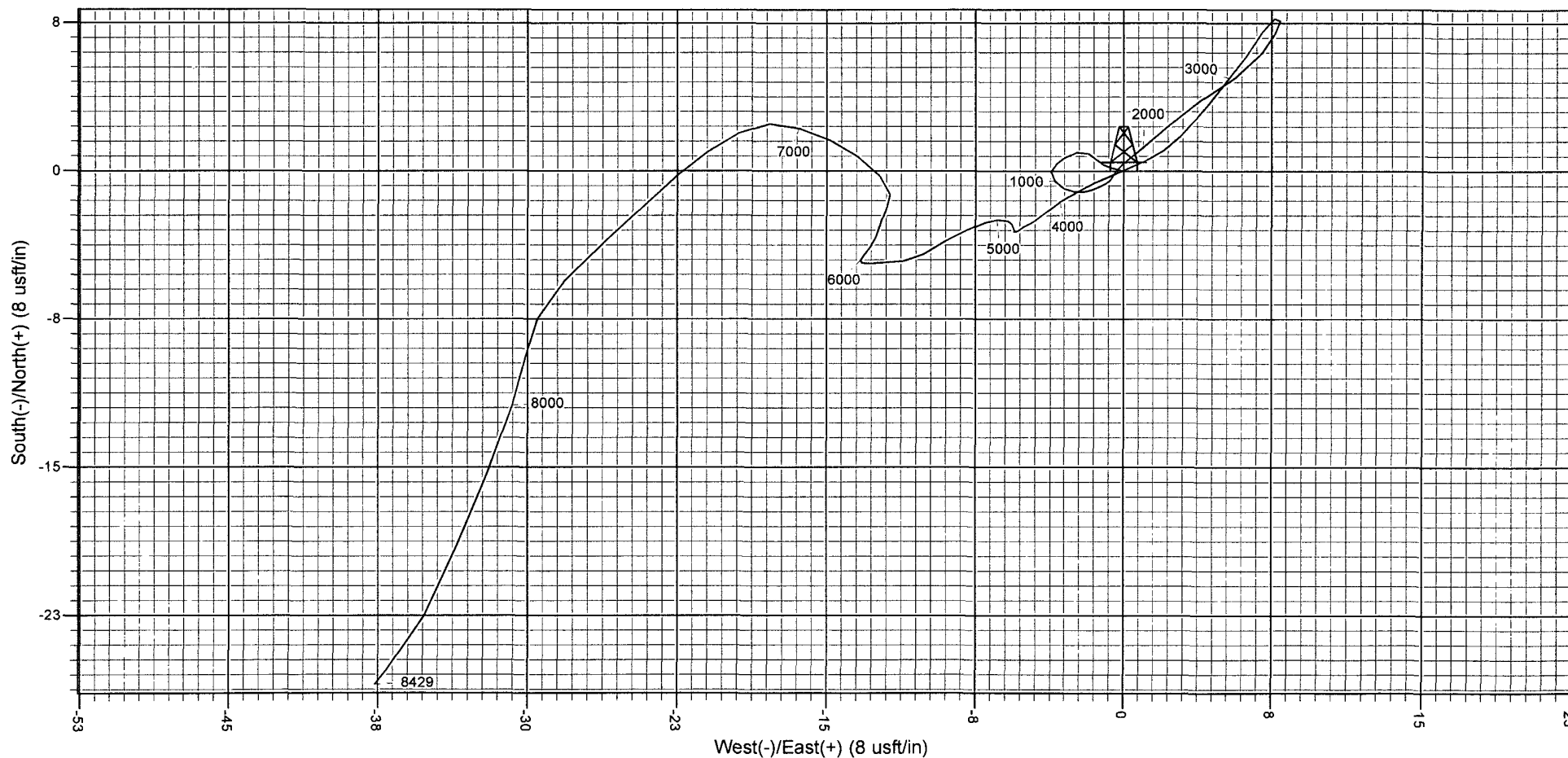
Project: Watkins
 Eddy County, NM
 Well: Corsair State #2H
 Wellbore: VH - Job #32K0910703
 Design: VH - Job #32K0910703



Azimuths to Grid North
 True North: -0.27°
 Magnetic North: 7.62°
 Magnetic Field
 Strength: 49011.1snT
 Dip Angle: 60.61°
 Date: 9/16/2010
 Model: BGGM2010

WELL DETAILS: Corsair State #2H
 WELL @ 0.0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	616916.50	654227.86	32° 41' 42.000 N	103° 49' 55.200 W	



PROJECT DETAILS: Watkins
 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: Eddy County, NM
 Site Centre Latitude: 32° 42' 37.034 N
 Longitude: 103° 49' 13.071 W
 Positional Uncertainty: 0.0
 Convergence: 0.28
 Local North: Grid