HOLLAND&HART LLP

William F. Carr
wcarr@hollandhart.com

September 27, 2010

VIA HAND DELIVERY

David K. Brooks
Legal Examiner
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Re: Case No. 14527: Application of Mewbourne Oil Company for a Non-Standard Spacing and Proration Unit and Compulsory Pooling, Lea County, New Mexico.

Dear Examiner Brooks:

Enclosed is the Affidavit of David Rawlins, Mewbourne Oil Company geologist, that provides technical evidence in support of the application in the above-referenced case.

If you need additional information from Mewbourne for you consideration of this application, please advise.

Very truly yours,

William F. Carr
Attorney for Mewbourne Oil Company

Enclosure
cc: Mr. David Rawlins
Mewbourne Oil Company
500 West Texas, Suite 1020
Midland, Texas 79701

STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF MEWBOURNE OIL COMPANY FOR A NON-STANDARD SPACING AND PRORATION UNIT AND COMPULSORY POOLING LEA COUNTY, NEW MEXICO.

CASE NO. 14527

AFFIDAVIT OF DAVID RAWLINS

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

I, David Rawlins, being first duly sworn on oath, states as follows:

1. My name is David Rawlins. I reside in Midland, Texas. I am a petroleum geologist employed by Mewbourne Oil Company ("Mewbourne") who is familiar with the geology in the S/2 N/2 of Section 17, Township 19 South, Range 33 East, NMPM, Lea County, New Mexico.

2. Mewbourne proposes to drill its Spyglass "17" Federal Well No. 1H on a horizontal well project area comprised of the S/2 N/2 of said Section 17.

3. Attachment A is a structure map of the top of the 2nd Bone Spring Sand. The formation strikes northeast-southwest and dips to the southeast. Attachment A also contains production data from existing wells in the Tonto-Bone Spring Pool.

4. Attachment B is a cross-section which shows the productive interval and stratigraphic target for Bone Spring wells in the area.

5. Attachment C is the horizontal drilling plan for the subject well. A horizontal wellbore will test a greater reservoir length and thereby increase the chances for an economic completion and development of the Bone Spring formation in this manner is a reasonable and prudent method of developing these units.

5. All four quarter-quarter sections in the horizontal well project area for the Spyglass "17" Federal Well No. 1H are prospective and likely to contribute significant production from the Bone Spring formation in the proposed non-standard unit.

6. Mewbourne anticipates producing reserves from each of these quarter-quarter sections.

FURTHER AFFIANT SAYETH NOT.

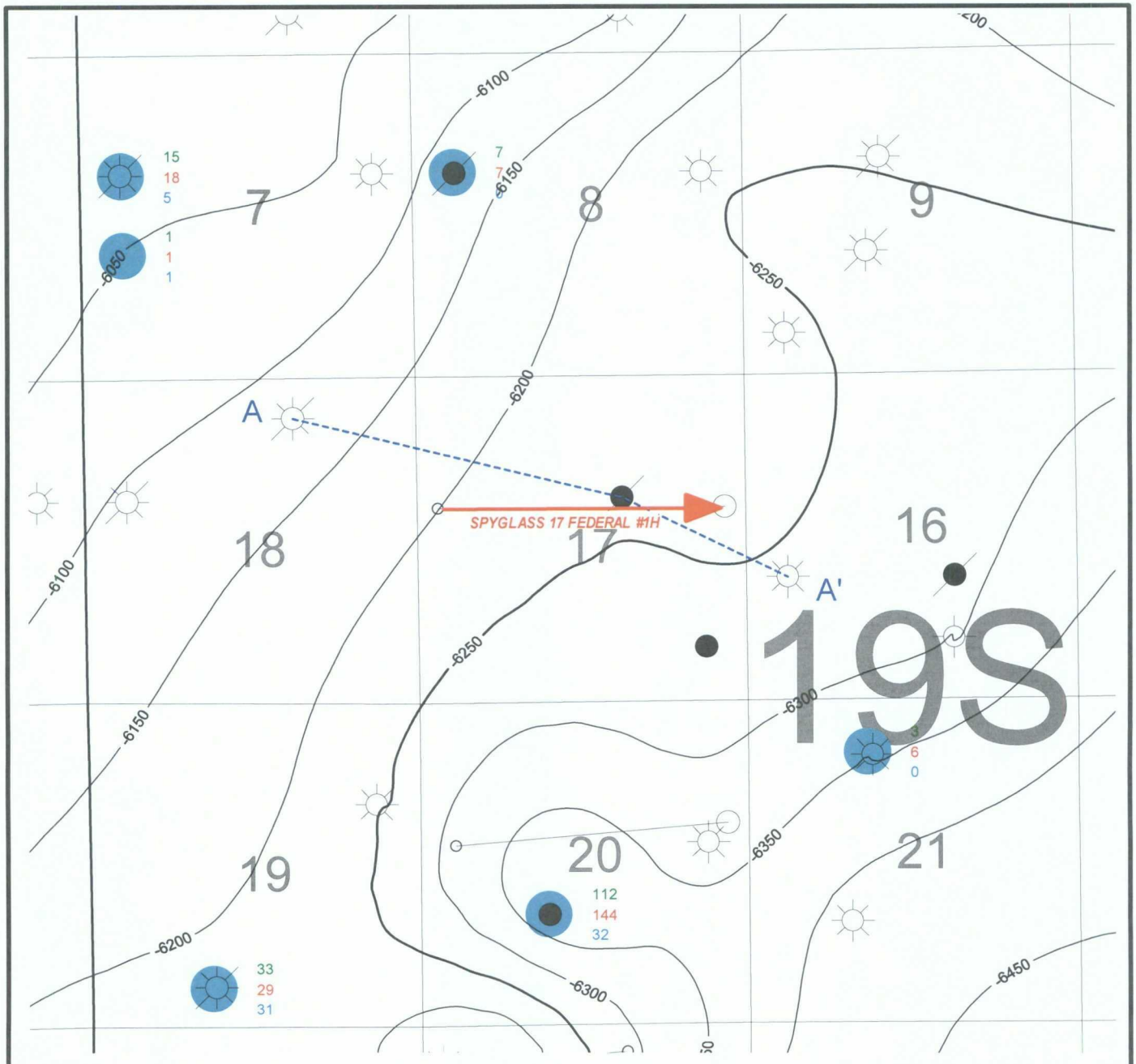
David Rawlins

SUBSCRIBED AND SWORN before me on this 17th day of September, 2010.

Glenda Barnett
Notary Public

My Commission Expires:
1-19-2012

GLENDA BARNETT
MY COMMISSION EXPIRES
January 19, 2012



BONE SPRINGS PRODUCTION

Cumulative Oil (MBO)

Cumulative Gas (MMCFG)

Cumulative Water (MBW)

N

1 inch = 2500 feet

2500 0 2500 5000 7500 ft

Mewbourne Oil Company

SPYGLASS 17 FEDERAL #1H
STRUCTURE TOP OF 2ND BS SAND (LOWER ZONE)
LEA CO, NEW MEXICO

Author:	Wells > 8000 feet Contour Interval: 50 feet	Date:
DMR		17 September, 2010
	Scale: 1 inch = 2500 feet	

ATTACHMENT "A"

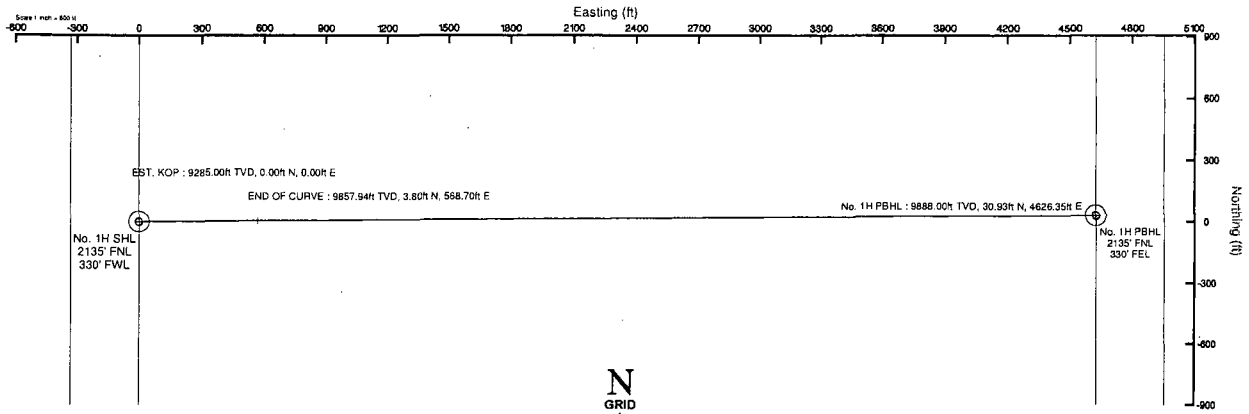
Mewbourne Oil Company

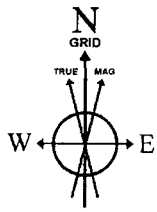
Mewbourne Oil Company

Location: Lea County, NM
Field: (Spyglass) Sec 17, T19S, R33E
Facility: Spyglass Fed Com 17 No. 1H
Slot: No. 1H SHL
Well: No. 1H
Wellbore: No. 1H PWB

BAKER HUGHES

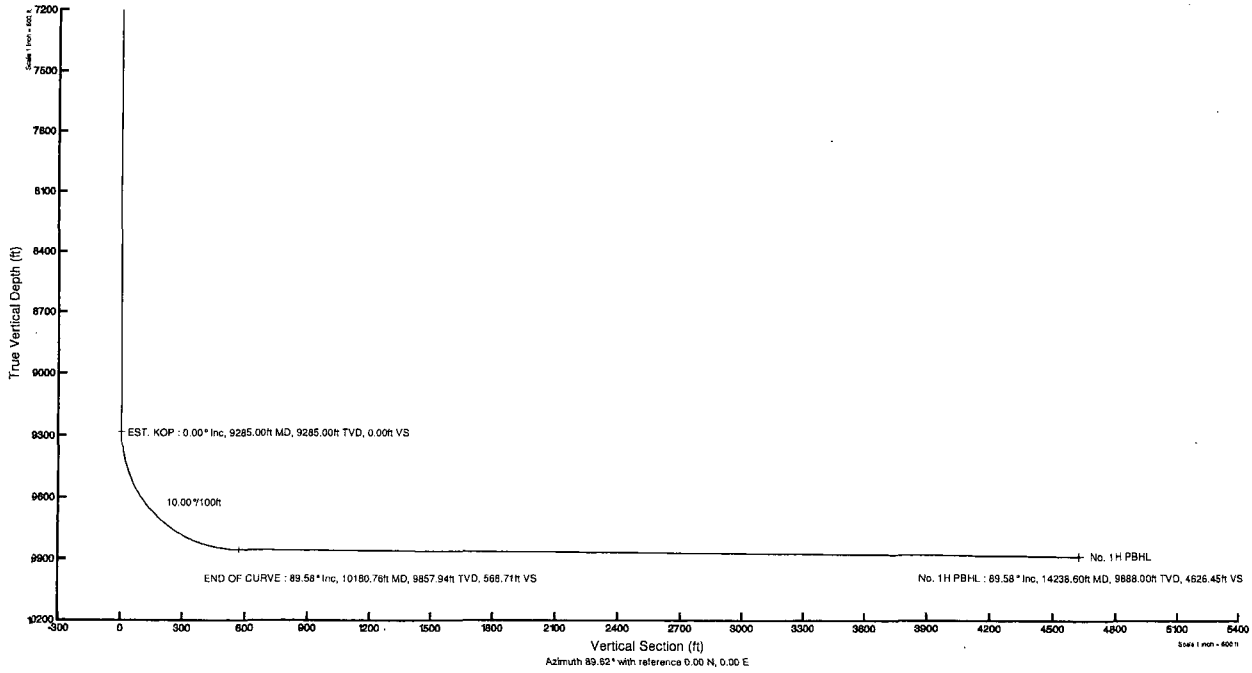
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	89.617	0.00	0.00	0.00	0.00	0.00
EST. KOP	9285.00	0.000	89.617	9285.00	0.00	0.00	0.00	0.00
END OF CURVE	10180.76	89.576	89.617	9857.94	3.80	568.70	10.00	568.71
No. 1H PBHL	14238.60	89.576	89.617	9888.00	30.93	4626.35	0.00	4626.45





BGGM (1945.0 to 2011.0) Dip: 60.62° Field: 49040.1 nT
Magnetic North is 7.84 degrees East of True North (at 5/17/2010)
Grid North is 0.35 degrees East of True North
To correct azimuth from True to Grid subtract 0.35 degrees
To correct azimuth from Magnetic to Grid add 7.50 degrees
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.50 = 97.50

Plot reference wellpath is Plan #1	
True vertical depths are referenced to Rig 45 on No. 1H SHL (KB)	Grid System: NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet
Measured depths are referenced to Rig 45 on No. 1H SHL (KB)	North Reference: Grid north
Rig 45 on No. 1H SHL (KB) to Mean Sea Level: 3658 feet	Scale: True distance
Mean Sea Level to Mud line (Facility: Spyglass Fed Com 17 No. 1H): -3640 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: Victor Hernandez on 5/17/2010



ATTACHMENT "C"

Mewbourne Oil Company

Planned Wellpath Report

Plan #1

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	**Mewbourne Oil Company**	Slot	**No. 1H SHL**
Area	**Lea County, NM**	Well	**No. 1H**
Field	**(Spyglass) Sec 17, T19S, R33E**	Wellbore	**No. 1H PWB**
Facility	**Spyglass Fed Com 17 No. 1H**		

REPORT SETUP INFORMATION			
Projection System	**NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet**	Software System	**WellArchitect® 2.0**
North Reference	**Grid**	User	**Victor Hernandez**
Scale	**0.999954**	Report Generated	**5/17/2010** at **10:41:36 AM**
Convergence at slot	**0.35° East**	Database/Source file	**WA_Midland/No._1H_PWB.xml**

WELLPATH LOCATION	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	**East[ft]**	**Easting[USft]**	**Northing[USft]**	**Latitude**	**Longitude**
Slot Location	**0.00**	**0.00**	697292.68	604981.53	32°39'41.608"N	103°41'32.116"W
Facility Reference Pt			**697292.68**	**604981.53**	32°39'41.608"N	103°41'32.116"W
Field Reference Pt			**697292.68**	**604981.53**	32°39'41.608"N	103°41'32.116"W

WELLPATH DATUM			
Calculation method	**Minimum curvature**	Rig 45 on No. 1H SHL (KB) to GL	**18.00ft**
Horizontal Reference Pt	**Slot**	Rig 45 on No. 1H SHL (KB) to Mean Sea Level	**3658.00ft**
Vertical Reference Pt	**Rig 45 on No. 1H SHL (KB)**	GL to Mud Line (Facility)	**0.00ft**
MD Reference Pt	**Rig 45 on No. 1H SHL (KB)**	Section Origin	**N 0.00, E 0.00 ft**
Field Vertical Reference	**Mean Sea Level**	Section Azimuth	**89.62°**

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Spyglass) Sec 17, T19S, R33E	Wellbore	No. 1H PWB
Facility	Spyglass Fed Com 17 No. 1H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	89.617	0.00	0.00	0.00	0.00	697292.68	604981.53	32°39'41.608"N	103°41'32.116"W	0.00	Tie On
9285.00	0.000	89.617	9285.00	0.00	0.00	0.00	697292.68	604981.53	32°39'41.608"N	103°41'32.116"W	0.00	EST. KOP
9385.00†	10.000	89.617	9384.49	8.70	0.06	8.70	697301.38	604981.59	32°39'41.608"N	103°41'32.014"W	10.00	
9485.00†	20.000	89.617	9480.96	34.55	0.23	34.55	697327.23	604981.76	32°39'41.608"N	103°41'31.712"W	10.00	
9585.00†	30.000	89.617	9571.48	76.76	0.51	76.76	697369.44	604982.04	32°39'41.608"N	103°41'31.218"W	10.00	
9685.00†	40.000	89.617	9653.29	134.05	0.90	134.04	697426.72	604982.43	32°39'41.609"N	103°41'30.548"W	10.00	
9785.00†	50.000	89.617	9723.91	204.67	1.37	204.66	697497.33	604982.90	32°39'41.609"N	103°41'29.722"W	10.00	
9885.00†	60.000	89.617	9781.20	286.48	1.92	286.47	697579.14	604983.45	32°39'41.609"N	103°41'28.765"W	10.00	
9985.00†	70.000	89.617	9823.40	376.99	2.52	376.99	697669.65	604984.05	32°39'41.610"N	103°41'27.707"W	10.00	
10085.00†	80.000	89.617	9849.25	473.46	3.17	473.45	697766.11	604984.70	32°39'41.611"N	103°41'26.578"W	10.00	
10180.76	89.576	89.617	9857.94	568.71	3.80	568.70	697861.35	604985.33	32°39'41.611"N	103°41'25.464"W	10.00	END OF CURVE
10185.00†	89.576	89.617	9857.97	572.96	3.83	572.94	697865.60	604985.36	32°39'41.611"N	103°41'25.415"W	0.00	
10285.00†	89.576	89.617	9858.71	672.95	4.50	672.94	697965.59	604986.03	32°39'41.612"N	103°41'24.245"W	0.00	
10385.00†	89.576	89.617	9859.45	772.95	5.17	772.93	698065.58	604986.70	32°39'41.613"N	103°41'23.075"W	0.00	
10485.00†	89.576	89.617	9860.20	872.95	5.84	872.93	698165.57	604987.37	32°39'41.613"N	103°41'21.906"W	0.00	
10585.00†	89.576	89.617	9860.94	972.95	6.51	972.92	698265.56	604988.03	32°39'41.614"N	103°41'20.736"W	0.00	
10685.00†	89.576	89.617	9861.68	1072.94	7.17	1072.92	698365.55	604988.70	32°39'41.614"N	103°41'19.566"W	0.00	
10785.00†	89.576	89.617	9862.42	1172.94	7.84	1172.92	698465.54	604989.37	32°39'41.615"N	103°41'18.397"W	0.00	
10885.00†	89.576	89.617	9863.16	1272.94	8.51	1272.91	698565.53	604990.04	32°39'41.616"N	103°41'17.227"W	0.00	
10985.00†	89.576	89.617	9863.90	1372.94	9.18	1372.91	698665.52	604990.71	32°39'41.616"N	103°41'16.057"W	0.00	
11085.00†	89.576	89.617	9864.64	1472.93	9.85	1472.90	698765.51	604991.38	32°39'41.617"N	103°41'14.888"W	0.00	
11185.00†	89.576	89.617	9865.38	1572.93	10.52	1572.90	698865.50	604992.05	32°39'41.617"N	103°41'13.718"W	0.00	
11285.00†	89.576	89.617	9866.12	1672.93	11.19	1672.89	698965.49	604992.71	32°39'41.618"N	103°41'12.548"W	0.00	
11385.00†	89.576	89.617	9866.86	1772.92	11.85	1772.89	699065.48	604993.38	32°39'41.619"N	103°41'11.379"W	0.00	
11485.00†	89.576	89.617	9867.60	1872.92	12.52	1872.88	699165.47	604994.05	32°39'41.619"N	103°41'10.209"W	0.00	
11585.00†	89.576	89.617	9868.34	1972.92	13.19	1972.88	699265.46	604994.72	32°39'41.620"N	103°41'09.039"W	0.00	
11685.00†	89.576	89.617	9869.08	2072.92	13.86	2072.87	699365.45	604995.39	32°39'41.620"N	103°41'07.870"W	0.00	
11785.00†	89.576	89.617	9869.83	2172.91	14.53	2172.87	699465.44	604996.06	32°39'41.621"N	103°41'06.700"W	0.00	
11885.00†	89.576	89.617	9870.57	2272.91	15.20	2272.86	699565.43	604996.73	32°39'41.621"N	103°41'05.531"W	0.00	
11985.00†	89.576	89.617	9871.31	2372.91	15.87	2372.86	699665.42	604997.39	32°39'41.622"N	103°41'04.361"W	0.00	

Mewbourne Oil Company

Planned Wellpath Report

Plan #1

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Spyglass) Sec 17, T19S, R33E	Wellbore	No. 1H PWB
Facility	Spyglass Fed Com 17 No. 1H		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12085.00†	89.576	89.617	9872.05	2472.91	16.53	2472.85	699765.41	604998.06	32°39'41.623"N	103°41'03.191"W	0.00	
12185.00†	89.576	89.617	9872.79	2572.90	17.20	2572.85	699865.40	604998.73	32°39'41.623"N	103°41'02.022"W	0.00	
12285.00†	89.576	89.617	9873.53	2672.90	17.87	2672.84	699965.39	604999.40	32°39'41.624"N	103°41'00.852"W	0.00	
12385.00†	89.576	89.617	9874.27	2772.90	18.54	2772.84	700065.38	605000.07	32°39'41.624"N	103°40'59.682"W	0.00	
12485.00†	89.576	89.617	9875.01	2872.89	19.21	2872.83	700165.37	605000.74	32°39'41.625"N	103°40'58.513"W	0.00	
12585.00†	89.576	89.617	9875.75	2972.89	19.88	2972.83	700265.36	605001.41	32°39'41.625"N	103°40'57.343"W	0.00	
12685.00†	89.576	89.617	9876.49	3072.89	20.55	3072.82	700365.35	605002.07	32°39'41.626"N	103°40'56.173"W	0.00	
12785.00†	89.576	89.617	9877.23	3172.89	21.21	3172.82	700465.34	605002.74	32°39'41.626"N	103°40'55.004"W	0.00	
12885.00†	89.576	89.617	9877.97	3272.88	21.88	3272.81	700565.33	605003.41	32°39'41.627"N	103°40'53.834"W	0.00	
12985.00†	89.576	89.617	9878.71	3372.88	22.55	3372.81	700665.32	605004.08	32°39'41.628"N	103°40'52.664"W	0.00	
13085.00†	89.576	89.617	9879.45	3472.88	23.22	3472.80	700765.31	605004.75	32°39'41.628"N	103°40'51.495"W	0.00	
13185.00†	89.576	89.617	9880.20	3572.88	23.89	3572.80	700865.30	605005.42	32°39'41.629"N	103°40'50.325"W	0.00	
13285.00†	89.576	89.617	9880.94	3672.87	24.56	3672.79	700965.29	605006.09	32°39'41.629"N	103°40'49.156"W	0.00	
13385.00†	89.576	89.617	9881.68	3772.87	25.23	3772.79	701065.28	605006.75	32°39'41.630"N	103°40'47.986"W	0.00	
13485.00†	89.576	89.617	9882.42	3872.87	25.89	3872.78	701165.27	605007.42	32°39'41.630"N	103°40'46.816"W	0.00	
13585.00†	89.576	89.617	9883.16	3972.86	26.56	3972.78	701265.26	605008.09	32°39'41.631"N	103°40'45.647"W	0.00	
13685.00†	89.576	89.617	9883.90	4072.86	27.23	4072.77	701365.25	605008.76	32°39'41.631"N	103°40'44.477"W	0.00	
13785.00†	89.576	89.617	9884.64	4172.86	27.90	4172.77	701465.24	605009.43	32°39'41.632"N	103°40'43.307"W	0.00	
13885.00†	89.576	89.617	9885.38	4272.86	28.57	4272.76	701565.23	605010.10	32°39'41.632"N	103°40'42.138"W	0.00	
13985.00†	89.576	89.617	9886.12	4372.85	29.24	4372.76	701665.22	605010.77	32°39'41.633"N	103°40'40.968"W	0.00	
14085.00†	89.576	89.617	9886.86	4472.85	29.91	4472.75	701765.21	605011.43	32°39'41.633"N	103°40'39.798"W	0.00	
14185.00†	89.576	89.617	9887.60	4572.85	30.57	4572.75	701865.20	605012.10	32°39'41.634"N	103°40'38.629"W	0.00	
14238.60	89.576	89.617	9888.00	4626.45	30.93	4626.35	701918.80	605012.46	32°39'41.634"N	103°40'38.002"W	0.00	No. 1H PBHL

Mewbourne Oil Company

Planned Wellpath Report

Plan #1

BAKER HUGHES

REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Spyglass) Sec 17, T19S, R33E	Wellbore	No. 1H PWB
Facility	Spyglass Fed Com 17 No. 1H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	14238.60	9888.00	30.93	4626.35	701918.80	605012.46	32°39'45.634" N	103°40'38.002" W	point

SURVEY PROGRAM Ref Wellbore: No. 1H PWB Ref Wellpath: Plan #1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	14238.60	NaviTrak (Standard)		No. 1H PWB