,			ATS-11-	- 57
Form 3160-3. (September 2001) UNITED STATE	REGE	₩øæD	FORM APPRO	OVED -0136
DEPARTMENT OF THE	INTERIOR		5. Lease Serial No.	
BUREAU OF LAND MAN		2011	NM-0127A	
APPLICATION FOR PERMIT TO I	DRILL OR REENTEDBBS	OCD	6. If Indian, Allottee or Tr	ibe Name
la. Type of Work: 🗹 DRILL	ER		7. If Unit or CA Agreemen	t, Name and No.
1b. Type of Well: 🗹 Oil Well 🗖 Gas Well 🗖 Other	🗖 Single Zone 🔲 Mul	tiple Zone	8. Lease Name and Well No Red Hills 9 Fed #1H	く3864
2. Name of Operator			9. API Well No.	·
Mewbourne Oil Company (14744)			70-023-	40195
3a. Address	3b. Phone No. (include area code)		10. Field and Pool, or Explo	ratory Bring
PO Box 5270 Hobbs, NM 88241	575-393-5905	· · · · · · · · · · · · · · · · · · ·	Wildcat Bone Springs	<u></u>
4. Location of Well (Report location clearly and in accordance with	h any State requirements. *)		11. Sec., T., R., M., or Blk. a	ind Survey or Area
At surface 1980' FNL & 330' FWL Unit E At proposed prod. zone 1980' FNL & 330' FEL Unit H			Sec 9 - T26S - R33E	
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
•				NM
30 miles West of Jal, NM 15. Distance from proposed* location to nearest	17. Spacin	Lea g Unit dedicated to this well		
property or lease line, ft.				
(Also to nearest drig. unit line, if any) 330'	160	160		
to nearest well, drilling, completed, applied for on this lease ft			BIA Bond No. on file Nationwide	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	Pilet hole 10,100° 22. Approximate date work will		23. Estimated duration	······································
3304' GL	ASAP	Start	40	
	24. Attachments			
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas Order No.1, shall be a	attached to this	s form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO shall be filed with the appropriate Forest Service Office). 	n Lands, the 5. Operator certifi	cation. specific info	s unless covered by an existin rmation and/or plans as may	
25. Signature	Name (Printed/Typed)		Date	
Jary Bathan	Jackie Lathan		10/2	5/10
Title Hobbs Regulatory				
	Name (Printed/Typed)		Date	EB 9 2011
75/ Don Peterson				
Title FIELD MANAGER	Office		CARLSBAD FIELD OF	FICE
Application approval does not warrant or certify that the applicant hold	s legal or equitable title to those rights	in the subject	lease which would entitle the a	pplicant to conduct
operations thereon. Conditions of approval, if any, are attached.			APPROVAL FOR	TWO YEARS
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as		and willfully t		
*/Instructions on removed			· · · · · · · · · · · · · · · · · · ·	

*(Instructions on reverse)

Carlsbad Controlled Water Basin

K2 06/01/11

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

JUN 0 2 2011

Drilling Program Mewbourne Oil Company Red Hills 9 Federal #1H 1980' FNL & 330' FWL (SHL) Sec 9-T26S-R33E Lea County, New Mexico

1. The estimated tops of geological markers are as follows:

850'
1200'
4675'
4900'
4925'
9000'
9950'
WILL NOT PENETRATE

2. Estimated depths of anticipated fresh water, oil, or gas:

	110
Water	Fresh water will be protected by setting surface casing at 875' and
	cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will
	be protected by casing as necessary.

3. Pressure control equipment: A 2000# WP Annular will be installed after running 1338" caring (Pour repearing blowout prevent on A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 5%" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use. Will test the 9 5/" BOPE to 3000# and Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

aq5 (

4. Drilling Program:

Set MOC proposes to drill a vertical wellbore to 10100' to log and evaluate the bone Springs. MOC -will then plug back to 8682' & kick off to horizontal @ 9255' TVD. The well will be drilled to C0/1 -13668' MD (9295' TVD). See attached directional plan.

5. Proposed casing and cementing program:

Zee con —	A. Casing Hole Size 17 ½"	g Program: <u>Casing</u> 13 %" (new)	<u>Wt/Ft.</u> 48#	<u>Grade</u> H40	<u>Depth</u> 0'- 875' 195	<u>Jt Type</u> ST&C
	12 ¼" 12 ¼" 12 ¼"	9 5⁄s" (new) 9 5∕s" (new) 9 5∕s" (new)	36# 40# 40#	K55 K55 N80	0'-3300' 3300'-4300' 4300'-4900'	ST&C ST&C LT&C
	8 ¾"	5 ½" (new)	17#	P110	0-13668' MD	LT&C

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. See CoA *Subject to availability of casing.

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B. Cementing Program:

- i. <u>Surface Casing</u>: 250 sacks Lite "C" cement w/additives. Yield at 2.05 cuft/sk.
 200 sks class "C" w/1% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface. See COA
 ii. <u>Intermediate Casing</u>: 750 sacks Lite "C" cement w/additives. Yield at 2.05
 cuft/sk. 400 sks class "C" w/1% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to
- cuft/sk. 400 sks class "C" w/1% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface.
 <u>Production Casing</u>: 700 sacks Lite "H" cement w/additives. Yield at 2.45 cuft/sk.
- In: <u>Production Casing</u>. 700 sacks Life in cement w/additives. Their at 2.45 curves. 1500 sks class "H" w/additives. Yield at 1.29 cuft/sk. Cmt calculated to tieback - Set Conto intermediate csg.

*Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant. - See COA

6. Mud Program:

	Interval "	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
Jer	Interval 0'-875' 945	FW spud mud	8.6-9.0	32-34	NA
COA	875'-4900'	Brine water	10.0	28-30	NA
Un	4900'- TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: See COA

Samples:	10' samples from surface casing to TD
Logging:	GR surface to 10150' & Gyro from KOP (8700') to surface.

8. Downhole Conditions

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	120 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 45 days involved in drilling operations and an additional 10 days involved in completion operations on the project.



Planned Wellpath Report Prelim_1 Page 1 of 4

Mewbourne Oil Company

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REER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red) Sec 9, T26S, R33E	Wellbore	No. 1H PWB
Facility	Red Hills 9 Fed 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	0.999955	Report Generated	10/7/2010 at 10:56:02 AM			
Convergence at slot	0.34° East	Database/Source file	WellArchitectDB/No1H_PWB.xml			

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	700204.30	385923.50	32°03'33.737"N	103°41'13.528"W
Facility Reference Pt			700204.30	385923.50	32°03'33.737"N	103°41'13.528"W
Field Reference Pt			700204.30	385923.50	32°03'33.737"N	103°41'13.528"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 9H SHL (KB) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Slot	Rig on No. 9H SHL (KB) to Mean Sea Level	3322.00ft
Vertical Reference Pt	Rig on No. 9H SHL (KB)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 9H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	89.49°

Planned Wellpath Report Prelim_1 Page 2 of 4

Mewbourne Oil Company

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REEDR	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red) Sec 9, T26S, R33E	Wellbore	No. 1H PWB
Facility	Red Hills 9 Fed No. 1H		

MD [ft]	Inclination [°]	[°]	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	89.494	0.00	0.00	0.00	0.00	700204.30	385923.50	32°03'33.737"N	103°41'13.528"W	0.00	Tie On
8682.00	0.000	89.494	8682.00	0.00	0.00	0.00	700204.30	385923.50	32°03'33.737"N	103°41'13.528"W	0.00	EST. KOP
8782.00†	10.000	89.494	8781.49	8.70	0.08	8.70	700213.00	385923.58	32°03'33.737"N	103°41'13.427"W	10.00	
8882.00*	20.000	89.494	8877.96	34.55	0.30	34.55	700238.85	385923.80	32°03'33.738"N	103°41'13.127"W	10.00	
8982:00†	30.000	89.494	8968.48	76:76	0.68	76.76	700281.06	385924.18	32°03'33.739"N	103°41'12.636"W	10.00	
9082.00†	40.000	89.494	9050.29	134.05	1.18	134.04	700338.34	385924.68	32°03'33.741"N	103°41'11.971"W	10.00	
9182.00†	50.000	89.494	9120.91	204.67	1.81	204.66	700408.95	385925.31	32°03'33.743"N	103°41'11.150"W	10.00	
9282.00†	60.000	89.494	9178.20	286.48	2.53	286.47	700490.75	385926.03	32°03'33.745"N	103°41'10.200"W	10.00	
9382.00†	70.000	89.494	9220.40	376.99	3.33	376.98	700581.26	385926.83	32°03'33.748"N	103°41'09.148"W	10.00	
9482.001	80.000	89:494	9246.25	473.46	4.18	473.45	700677.72	385927.68	32°03'33.750"N	103°41'08.027"W	10.00	2 2 4 C 1 C 2
9576.39	89.439	89.494	9254.93	567.35	5.01	567.32	700771.60	385928.51	32°03'33.753"N	103°41'06.936"W	10.00	END OF CURV
9582.00†	89.439	89.494	9254.99	572.96	5.06	572.94	700777.21	385928.56	32°03'33.753"N	103°41'06.871"W	0.00	1
9682.00†	89.439	89.494	9255.96	672.95	5.94	672.93	700877.20	385929.44	32°03'33.756"N	103°41'05.709"W	0.00	
9782.00†	89.439	89.494	9256.94	772.95	6.82	772.92	700977.18	385930.32	32°03'33.759"N	103°41'04.547"W	0.00	1
9882:001	89.439	89.494	9257.92	872.94	7:70	872.91	701077.17	.385931.20	32°03'33.761"N	103°41'03:385"W	0.00	170.55
9982.00*	89.439	89.494	9258.90	972.94	8.58	972.90	701177.15	385932.08	32°03'33.764"N	103°41'02.223"W	0.00	
0082.00†	89.439	89.494	9259.88	1072.93	9.47	1072.89	701277.14	385932.97	32°03'33.767"N	103°41'01.061"W	0.00	
0182.00†	89.439	89.494	9260.86	1172.93	10.35	1172.88	701377.13	385933.85	32°03'33.770"N	103°40'59.900"W	0.00	
0282.00†	89.439		9261.84	1272.92	11.23	1272.87	701477.11	385934.73	32°03'33.772"N	103°40'58.738"W	0.00	
0382.001	89.439	89:494	9262.82	1372:92)	12:11	1372.87	701577:10	385935.61	32°03'33.775"N	103°40'57.576"W	0.00	1
0482.00†	89.439	89.494	9263.80	1472.91	13.00	1472.86	701677.09	385936.50	32°03'33.778"N	103°40'56.414"W	0.00	
0582.00†	89.439	89.494	9264.78	1572.91	13.88	1572.85	701777.07	385937.38	32°03'33.781"N	103°40'55.252"W	0.00	
0682.00†	89.439	89.494	9265.76	1672.90	CONTRACTOR OF A	1672.84	701877.06	385938.26	32°03'33.783"N	103°40'54.090"W	0.00	
0782.00†	89.439		9266.74	1772.90		1772.83	701977.05	385939.14	32°03'33.786"N	103°40'52.928"W	0.00	
0882.001	89:439			1872:90	16.52		702077.03	385940.02	32°03'33,789"N	103°40'51.766"W	0.00	2. 10. 10. 10. 10.
0982.00†	89.439		9268.70	1972.89			702177.02	385940.91	32°03'33.792"N	103°40'50.604"W	0.00	
1082.00†	89.439		9269.68		18.29	2072.80	702277.01	385941.79	32°03'33.794"N	103°40'49.442"W	0.00	
1182.00†	89.439		9270.66	2172.88	19.17	2172.80	702376.99	385942.67	32°03'33.797"N	103°40'48.281"W	0.00	
1282.00†	89.439	89.494					702476.98	385943.55	32°03'33.800"N	103°40'47.119"W	0.00	
1382.001	89.439	89.494	9272.61	2372.87	20.94	2372.78	702576.97	385944.44	32°03'33.803"N	103°40'45 957"W	0:00	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -

Planned Wellpath Report Prelim_1 Page 3 of 4

Mewbourne Oil Company

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REEDR	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red) Sec 9, T26S, R33E	Wellbore	No. 1H PWB
	Red Hills 9 Fed No. 1H	1	

	LLPATH DATA (53 stations)			† = interpolated/extrapolated station								
MD		Azimuth	TVD	Vert Sect		East	Grid East	Grid North	Latitude	Longitude	DLS	Comments
[ft]	[°]	[°]	[ft]	[ft]	[N]	[ft]	[srv ft]	[srv ft]			[°/100ft]	
11482.00†	89.439	89.494	9273.59	2472.87	21.82	2472.77	702676.95	385945.32	32°03'33.805"N	103°40'44.795"W	0.00	
11582.00*	89.439	89.494	9274.57	2572.86	22.70	2572.76	702776.94	385946.20	32°03'33.808"N	103°40'43.633"W	0.00	
11682.00†	89.439	89.494	9275.55	2672.86	23.58	2672.75	702876.93	385947.08	32°03'33.811"N	103°40'42.471"W	0.00	
11782.00*	89.439	89.494	9276.53	2772.85	24.47	2772.74	702976.91	385947.96	32°03'33.814"N	103°40'41.309"W	0.00	
11882.00†	89.439	89.494	9277.51	2872.85	25:35	2872.74	703076.90	385948.85	32°03'33.816"N.	103°40'40.147"W	0.00	
11982.00†	89.439	89.494	9278.49	2972.84	26.23	2972.73	703176.89	385949.73	32°03'33.819"N	103°40'38.985"W	0.00	
12082.00†	89.439	89.494	9279.47	3072.84	27.11	3072.72	703276.87	385950.61	32°03'33.822"N	103°40'37.824"W	0.00	
12182.00*	89.439	89.494	9280.45	3172.83	27.99	3172.71	703376.86	385951.49	32°03'33.825"N	103°40'36.662"W	0.00	
12282.00†	89.439	89.494	9281.43	3272.83	28.88	3272.70	703476.85	385952.38	32°03'33.827"N	103°40'35.500"W	0.00	
12382.00†	89.439	89.494	9282.41	3372.82	29.76	3372.69	703576.83	385953.26	32°03'33.830"N	103°40'34'338"W.	0.00	
12482.00†	89.439	89.494	9283.39	3472.82	30.64	3472.68	703676.82	385954.14	32°03'33.833"N	103°40'33.176"W	0.00	CONTRACTOR ADDRESS OF ADDRESS
12582.00†	89.439	89.494	9284.37	3572.81	31.52	3572.67	703776.81	385955.02	32°03'33.835"N	103°40'32.014"W	0.00	
12682.00†	89.439	89.494	9285.35	3672.81	32.41	3672.67	703876.79	385955.90	32°03'33.838"N	103°40'30.852"W	0.00	
12782.00*	89.439	89.494	9286.33	3772.80	33.29	3772.66	703976.78	385956.79	32°03'33.841"N	103°40'29.690"W	0.00	
12882!00†		89.494	9287.31,	3872.80	34.17	3872.65	704076.77	385957.67	32°03'33!843"N	103°40'28.528"W	0.00	No. 1 March 1
12982.00†	89.439	89.494	9288.28	3972.79	35.05	3972.64	704176.75	385958.55	32°03'33.846"N	103°40'27.367"W	0.00	outores dispersion cards
13082.00†	89.439	89.494	9289.26	4072.79	35.93	4072.63	704276.74	385959.43	32°03'33.849"N	103°40'26.205"W	0.00	
13182.00†	89.439	89.494	9290.24	4172.78	36.82	4172.62	704376.73	385960.32	32°03'33.851"N	103°40'25.043"W	0.00	
13282.00†	89.439	89.494	9291.22	4272.78	37.70	4272.61	704476.71	385961.20	32°03'33.854"N	103°40'23.881"W	0.00	
13382.00†	89.439	*89.494	9292.20	4372.78	38.58	4372.61	704576.70	385962.08	32°03'33.857"N	103°40'22.719"W	0:00	
13482.00†	89.439	89.494	9293.18	4472.77	39.46	4472.60	704676.69	385962.96	32°03'33.860"N	103°40'21.557"W	0.00	yerrana ini katalah
13582.00*	89.439	89.494	9294.16	4572.77	40.35	4572.59	704776.67	385963.84	32°03'33.862"N	103°40'20.395"W	0.00	
13667.64	89,439	89.494	9295.00 ¹	4658.40	41.10	4658:22	704862.30	385964.60	32°03'33.864"N	103°40'19.400"W		PBHL

Planned Wellpath Report Prelim_1 Page 4 of 4

Mewbourne Oil Company

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REFER	ENCE WELLPATH IDENTIFICATION		
Operator	Mewbourne Oil Company	Slot	No. 1H SHL
Area	Lea County, NM	Well	No. 1H
Field	(Red) Sec 9, T26S, R33E	Wellbore	No. 1H PWB
Facility	Red Hills 9 Fed No. 1H		

TARGETS					annan version de la la la serie de la des de la serie de la se			hann an hann an Weller (1999) an an Heller (1999) an an Anna Anna Anna Anna Anna Anna An	
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	13667.64	9295.00	41.10	4658.22	704862.30	385964.60	32°03'33.864"N	-103°40'19:400"W	point

SURVEY PRO	GRAM Ref W	ellbore: No. 1H PWB Ref Wellpath: Pre	elim_1	
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	13667.64	NaviTrak (Standard)		No. 1H PWB

Closed Loop Pad Dimensions 280' x 320'

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Road

Exhibit 5

Notes Regarding Blowout Preventer Mewbourne Oil Company Red Hills 9 Federal #1H 1980' FNL & 330' FWL (SHL) Sec 9-T26S-R33E Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 9 5/8" casing and 3000 psi working pressure on 7".
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

Mewbourne Oil Company BOP Scematic for 12 ¼" Hole



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United States Department of the Interior Bureau of Land Management Carlsbad Field Office 620 E Greene Street Carlsbad, New Mexico 88201-1287

RECEIVED FEB 1 4 2011 HOBBSOCD

Statement Accepting Responsibility for Operations

Operator Name:Mewbourne Oil CompanyStreet or Box:P.O. Box 5270City, State:Hobbs, New MexicoZip Code:88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

Section 9, T-26S, R-33E Lea County, New Mexico.

Lease Number:

Lease Number NM-0127A

Legal Description of Land:

Location @ 1980' FNL & 330' FWL.

Formation (if applicable): Bone Spring

Bond Coverage: \$150,000

BLM Bond File:

NM1693, Nationwide

Authorized Signature:

Name (NM (Micky) Young Title: District Manager Date: <u>10 25 10</u>.

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 25 day of October_, 2010.

Name: <u>NM Young</u>
Signature:
Position Title: Hobbs District Manager
Address: PO Box 5270, Hobbs NM 88241
Telephone: 575-393-5905

E-mail: myoung@mewbourne.com