Form 3160-5 (August 2007)	UNITED STATE: PARTMENT OF THE I	NTERIOR			OMB NO	APPROVED 0. 1004-0135 July 31, 2010
HOBBS SUNDRY	JREAU OF LAND MANA NOTICES AND REPO s form for proposals to I. Use form 3160-3 (AP	RTS ON WE	enter an	Carls	5. Lease Serial No. NMNM85933	
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.	t	7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well Gas Well Oth					8. Well Name and No. BILBREY 34 B2N	C FEDERAL COM 1H
2. Name of Operator MEWBOURNE OIL COMPAN	Contact:	JACKIE LATI			9. API Well No. 30-025-43276-0	0-X1
3a. Address		3b. Phone No Ph: 575-39	(include area code))	10. Field and Pool, or RED TANK	Exploratory
HOBBS, NM 88241 4. Location of Well <i>(Footage, Sec., T</i>						and State
4. Location of Well (<i>Pootage, Sec., 1</i> Sec 34 T21S R32E SESW 18 32.254260 N Lat, 103.395264	5FSL 2030FWL	1)			11. County or Parish, a	
12. CHECK APPI	ROPRIATE BOX(ES) T	O INDICATE	NATURE OF	NOTICE, RI	EPORT, OR OTHEI	R DATA
TYPE OF SUBMISSION			TYPE O	F ACTION		
Notice of Intent	☐ Acidize ⊠ Alter Casing	Dee Dee	pen eture Treat	□ Product □ Reclam	ion (Start/Resume)	□ Water Shut-Off □ Well Integrity
□ Subsequent Report	Casing Repair	_	Construction	Recomp		Other
Final Abandonment Notice	Change Plans		g and Abandon		arily Abandon	
3. Describe Proposed or Completed Op	Convert to Injection			U Water I		
If the proposal is to deepen direction: Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f Mewbourne Oil Co. requests a	rk will be performed or provide operations. If the operation ro- bandonment Notices shall be fi inal inspection.) approval to make the follo	e the Bond No. or esults in a multip led only after all owing change	n file with BLM/BL le completion or rec requirements, inclu s to the approve	A. Required su completion in a ding reclamatio	bsequent reports shall be new interval, a Form 316	filed within 30 days 0-4 shall be filed once
Change 7" x 5 1/2" production		casing w/ 4 1/	2" liner.			
See attachment for casing & c	ementing details.		SE	EE ATTA	CHED FOR	
			CC	ONDITIO	NS OF APPR	OVAL
	Electronic Submission # For MEWBO mitted to AFMSS for proc	URNE OIL COI	MPÁNY, sent to SCILLA PEREZ o	the Hobbs on 09/08/2016		
Name(Printed/Typed) ANDREW	TAYLOR		Title ENGIN	IEER		
Signature (Electronic S	Submission)		Date 09/07/2	2016	-	
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE ADDE	DAVED
Approved By Teung	ku Muchlis Krueng		Title PET	ROLEUM	NGINEER	Date
onditions of approval, if any, are attached rtify that the applicant holds legal or equilibrium of the applicant to condu- hich would entitle the applicant to condu-	itable title to those rights in th ct operations thereon.	e subject lease	Office	and angenerated a	SEP 1	6 201 6
tle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212, make it a tatements or representations as	crime for any person of the store of the sto	erson knowingly and ithin its jurisdiction	d willfully to ma	ake to any department or BUREAU OF LA	agency of the United ND MANAGEMENT
** BI M RFV	SED ** BLM REVISE	D ** BLM RF	VISED ** BL			D **
				TUTIOL		140

2. Casing Program

Hole	Casin	g Interval	Csg.	Weight	Grade	Conn.	SF	SF	SF
Size	From	То	Size	(lbs)			Collapse	Burst	Tension
17.5"	0'	922'	13 3/8"	48	H40	STC	1.61	3.61	7.28
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.55
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	9.76
12.25"	4393'	4785'	9.625"	40	N80	LTC	1.24	2.31	47.02
8.75"	0'	11035'	7"	26	P110	LTC	1.46	1.86	2.26
6.125"	10283'	20615'	4.5"	13.5	P110	LTC	1.91	2.22	2.42
				BLM Min	imum Safe	ty Factor	1.125	1	1.6 Dry
									1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	Y
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	Y
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	450	14.8	2.12	6.3	8	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	800	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	380	12.5	2.12	11	10	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	415	11.2	2.97	17	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4285'	25%
Liner	10283'	25%

4. Pressure Control Equipment

Variance: None 1 **BOP** installed **Tested to:** Size? System Type and tested Rated before drilling WP which hole? 1500# Annular Х X Blind Ram 13-5/8" Pipe Ram X 12-1/4" **3M** Double Ram Other* 2500# Annular X Blind Ram X 13-5/8" Х 8-3/4" 5M Pipe Ram 5000# Double Ram Other* Annular X 2500# Blind Ram Х 13-5/8" 6-1/8" 5M Pipe Ram X 5000# Double Ram Other*

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in
	accordance with Onshore Oil and Gas Order #2 III.B.1.i.
	A variance is requested for the use of a flexible choke line from the BOP to Choke
Y	

N A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

• Provide description here

See attached schematic.

5. Mud Program

Depth		Туре	Weight (ppg)	Viscosity	Water Loss	
From	То					
0	865	FW Gel	8.6-8.8	28-34	N/C	
865	4785	Saturated Brine	10.0	28-34	N/C	
4785	10283	Cut Brine	8.6-9.5	28-34	N/C	
10283	20615	FW w/ Polymer	8.6-9.5	30-40	<20cc	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	Visual Monitoring	
of fluid?		

6. Logging and Testing Procedures

Log	ging, Coring and Testing.
Х	Will run GR/CNL from KOP (10283') to surface (horizontal well – vertical portion of
	hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Sec.	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Add	litional logs planned	Interval		
Х	Gamma Ray	10283' (KOP) to TD		
	Density			
£.,*	CBL			
	Mud log			
	PEX			

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5316 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present			
X	H2S Plan attached	_		

8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

Attachments

____ Directional Plan Other, describe

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Mewbourne Oil Company
	NMNM-85933
WELL NAME & NO.:	Bilbrey 34 B2NC Federal Com 1H
SURFACE HOLE FOOTAGE:	0185' FSL & 2030' FWL
BOTTOM HOLE FOOTAGE	0330' FNL & 2100' FWL
LOCATION:	Section 34, T. 21 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

ALL PREVIOUS COA STILL APPLY EXCEPT THE FOLLOWING:

1. The minimum required fill of cement behind the 7 inch production casing is:

Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.

Centralizers required through the curve and a minimum of one every other joint.

2. The minimum required fill of cement behind the 4-1/2 inch production liner is:

Cement should tie-back to the top of the liner. Operator shall provide method of verification.

TMAK 09162016

213234 Sundry Bilbrey 34 B2NC Federal Com 1H 30015 NM-85933 Mewbourne v11.6 TMAK 091516

13 3/8	13 3/8 surface csg in a agment #/ft G		17 1/2	inch hole.	Design Factors			SURFACE
Segment			Grade		Joint	Collapse	Burst	Length
"A"	48.00	Н	40	ST&C	7.28	1.83	0.7	922
"B"						C.S. AND TRACK		0
w/8.4#/g	mud, 30min Sf	fc Csg Test psig:	809	Tail Cmt	does not	circ to sfc.	Totals:	922
Comparison o	f Proposed	to Minimum I	Required Cer	ment Volumes				
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
17 1/2	0.6946	650	1222	695	76	8.80	1433	2M
Se	tting Depth	for D V TooL:	DV Tool	1st Stg	2nd Stg	sum of sx	Σ CuFt	
		%	Excess Cmt:					
Burst Frac Grad	dient(s) for Se	egment(s) A, I	B=, b All>	0.70, OK.				
							w # 1000 # 1000 X	
95/8	casing inside the 13 3/8					Design Factors		ITERMEDIA
Segment	#/ft	NAME OF TAXABLE POST & TOTAL OF A DAY	ade	Coupling	Joint	Collapse	Burst	Length
"A"	36.00		55	LT&C	2.55	1.13	0.66	3,453
"B"	40.00		55	LT&C	9.76	1.13	0.74	940
"C"	40.00		80	LT&C	47.00	1.24	1.08	392
"D"	40.00	HIGHNER	HERRER	and the second	47.00	1.24	1.00	0
CONTRACTOR AND A DESCRIPTION	mud 30min S	fc Csg Test psig:	848			Actual and an and a	Totals	A TRACTERATION OF A
w/8.4#/g mud, 30min Sfc Csg Test psig: 848 The cement volume(s) are intended to acl				hieve a top of	0	ft from surface or a		922
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
12 1/4	0.3132	1000	1964	1576	25	10.00	2943	3M
				0 3.12803-0-08-0-48983	Caller & Arrise Data with Children			N. C. MARTER CARDING
Burst Frac Grad	lient(s) for Se	egment(s): A,	B, C, D = 1.02	2, 0.9, c, d All	> 0.70, OK.			
7	cacing is	ncido tho	9 5/8			Decign Eq	otoro	PRODUCTIO
Segment	casing inside the 9 5/8 #/ft Grade			Coupling Joint		Design Factors Collapse Burst		Length
"A"	26.00		110	LT&C	2.53	1.22	1.88	10,283
"B"	20.00	CONTRACTOR DE CONTRACTOR	NR NR	LIGO	2.00	1.22	1.00	0
A CANADA AND AND AND AND AND AND AND AND AN	mud 20min S	fc Csg Test psig:	2 262				Totals	HERE MANESTANDERS AND
w/o.4#/g				would be:				a vertical we
MTD		manad	MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity
NI- DU	No Pilot Hole Planned 11305			-				
No Pile	ol noie Pla	anneu	11305	10760	10760	10283	90	12
				10760 hieve a top of	10760 4285	10283 ft from su		12 500

41/2	In tandem @ 10283				_	Tandem		
Segment	#/ft		Grade	Coupling	Joint	Collapse	Burst	Length
"A"	13.50		P 110	LT&C	1.86	1.78	2.34	753
"B"	13.50		P 110	LT&C	2.50	2.01	2.34	9,579
w/8.4#/g	mud, 30min	Sfc Csg Test ps	sig: 2,367				Totals:	10,332
A		Segment	Design Factor	s would be:	2.33	2.01	if it were a ve	ertical wellb
No Pilot Hole Planned		MTD	Max VTD	Csg VD	Curve KOP	Dogleg ^o	Severity	
NO FIN	No Fliot Hole Flanned		20615	10760	10760	10283	90	12
Cmt	ol calc inc	ludes previ	ous csg (tander	m conn) TOC	10283	ft from s	urface or a	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
6 1/8	0.0942	425	1262	977	Ck R-178	9.50		
lass 'H' tail cm	t yld > 1.20		Capitan Reef	est top XXXX.	(

918

39

9.50

2943

3M

 $4\frac{1}{2}\times7$ \rightarrow 1044 4^{2} \times 753 = 78.642 4^{2} $4\frac{1}{2}\times68$ \rightarrow -942 4^{2} \times 9579 = 900.3418 \approx 980 5^{2}

1232.55 25.8% 2

38 F 9: 57 28 21 P

lt(e)

Carlsbad Field Office

8 3/4

0.1503

780

1278

4

9/16/2016