			1975-10-139
Form 3160-3 (August 1999)	UNITED STATES DEPARTMENT OF THE INT BUREAU OF LAND MANAG		FORM APPROVED
	APPLICATION FOR PERMIT TO DRI	ILL OR REENTER	5. Lease Serial No.
1. Truck of Mich		<u>UET; 0 2 2010</u>	NM160973
1a. Type of Work	X DRILL REE	HORREOG	6. If Indian, Allotee or Tribe Name
1b. Type of Well	Oil Well Gas Well Other	Single Zone Multiple Zor	7. Unit or CA Agreement Name and No.
2. Name of Operator	· · · · · · · · · · · · · · · · · · ·	<u> </u>	8. Lease Name and Well No.
<u>Occidental Per</u> 3a. Address	mian Limited Partnership	3b. Phone No. (include area co	OPI Zack 17 Federal #1
P.0. Box 50250	D Midland, TX 79710-0250	432-685-5717	
	Report location clearly and in accordance With thy FSL 1980 FWL SESW(N)	<u>NState equirements)</u> * CATION fei Gelat	10. Field and Pool, or Explorator, 84419
At proposed prod. z		CYA CYA	I III Sec T V M or Vir and Survey or Area
14. Distance in miles an	nd direction from nearest town or post office*		12. County or Parish 13. State
<u></u>	25_miles_southwest_fi	rom Jal, NM	Lea NM
15. Distance from prop location to nearest		16.No. of Acres in lease	17. Spacing Unit dedicated to this well
property or lease lin (Also to nearest drg		320	320/160
18. Distance from prop		19. Proposed Depth	20.BLM/BIA Bond No. on file
to nearest well, dril applied for, on this		14500'	NM 2797 929128583
21 Elevations (Show w	hether DF, KDB, RT, GL, etc.	22. Approximate date work will star	rt* 23. Estimated duration
3266'		12/15/10	45
<u></u>		24. Attachments	
The following complete	ed in accordance with the requirements of Onshore	Oil and Gas Order No. 1, shall be attached	d to this form
 Well plat certified b A Drilling Plan A Surface Use Plan 	by a registered surveyor. (if the location is on National Forest System Land d with the appropriate Forest Service Office).	 Bond to cover the operation Item 20 above). Operator certification. 	ons unless covered by an existing bond on file (see formation and/or plans as may be required by the
25. Signuature	1 11	Name (Printed/Typed)	Date
	·· Show	David Stewart	015/10
Title			· · · ·
Sr. Regulato Approved by (Signautre			
Approved by (Signautre	/s/ Don ≓eterson	Name (Printed/Typed)	Date NOV 2 9 2010
Title FIELD I	MANAGER	Office CARLSBAD F	IELD OFFICE
Application approval do	bes not warrant or certify that the applicant holds l	legal or equitable title to those rights in t	he subject lease which would entitle the applicant to
conduct operations there Conditions of approval,			APPROVAL FOR TWO YEARS
Title 18 U.S.C. Section United States any false,	1001 and Title 43 U.S.C. Section 1212, make it fictitious or fraudulent statements or representation	a crime for any person knowlingly and v ns as to any matter within its jurisdiction.	villfully to make to any department or agency of the
*(Instructions on Revers	e) .		
SEE ATTA CONDITIC	CHED FOR ONS OF APPROVAL	OCD CONDITION OF APPRON Intent to drill ONLY CANNO Location has been approved by	T produce until the Non-Standard

VA	pholio
100	12/20/10

Approval Subject to General Requirements & Special Stipulations Attached

CARLSBAD CONTROLLED WATER BASIN

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District II 1301 W. G District III 1000 Rio I District IV	rand Ave Brazos Re t. Francis	nue, Arte d., Aztec Dr., So	NM 88240 Isio, NM 882 , NM 87410 Into Fe, NM	WELL LOCA	erals & No DIL CONSE 1220 South Santa F ATION AND Code	ntural RVATI h St. e, NI <u>ACRE</u>	Francis I M 87505 AGE DEDI	es Deporto Dr. UEC 02 HOBBS(CATION PLA	2010 PCD Pool Name	Fr	d Octobe priate Dis pte Lease ee Lease MENDED F	- 3 Copies REPORT
Pro Pro	perty Co	de		L		roperty I						ell Number 1
	GRID No.			000		perator I		MITED Pa	trach			Elevation 266.0'
1579	184			Οιιι			Location	MIIED M	revs	ρ	J,	200.U
UL or lot no. N	Section		ownship SOUTH	Rang 33 EAST, N	je		Feet from the	North/South line		Eost/Wes		County <i>LEA</i>
	17		50011			tion	330'	t From Su	1980'	II Ex.		LEA
UL or lot no.	Section	Ťo	ownship	Rong				North/South line		Eost/Wes	st line	County
Dedicated 32-C		Joint	or Infill	Consolidation Code	Order No.	L	L	.l	L	1		I
		be os	ssigned to	this completion	until oll inter	ests h	ove been co	onsolidated or	I he cont to II belie eithe unled inclu locot well cont mine volu com ente Sign Prim	OPERATO reby certify ained here he best of f, and that r owns a ased mine ding the p ding the p tion or hat at this low ract with a eral or won nlary pooli	PR CERTIF y that the in is true f my known this orr working interest proposed s a right cation pur an owner rking inter ing agreen obling orde e division	TCATION e information e and complete wledge and ganization interest or st in the land bottom hole to drill this result to a of such a rest, or to a ment or a er heretofore 8(5(10) Date
		 980'	 	330,	SURFACE L NEW MEXIC NAD 11 Y=3779 X=7284 LAT.: N 32.0 LONG.: W 103	O EAST 927 85.8 90.4			I he show field me the best Dote Sign Prof	reby continued in or the of th		Albuting from Albuting from Strong made by Vision, and that correct to the 0

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DRILLING PROGRAM

Operator Name/Number:	Occidental Permian Limited Partnership - 157984					
Lease Name/Number:	OPL Zack 17 Federal #1	Federal Lease No. NM160973				
Pool Name/Number:	Undsg Salado Draw Wolfcamp Gas-84410 - Wildcat Bone Spring-96053					
Surface Location:	330 FSL 1980 FWL SESW(N) Sec					
Bottom Hole Location:	380 FNL 2260 FWL NENW(C) Sec 17 T26S R33E - Bone Spring					

Proposed TD:	14500'TVD	14500' TMD	Elevation: 3266'
SL - Lat: 32.0370534	Long: 103.5959673	X=728490.4 Y=377985.8	NAD - 1927
BH - Lat: 32.0496169	Long: 103.5950738	X=728736.0 Y=382557.9	NAD - 1927

1. Geologic Name of Surface Formation:

a. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Geological Marker	<u>Depth</u>	Type
a. Upper Permian Sand	281'	Water
b. Rustler	700'	
c. Bottom Salt	4793'	·
d. Delaware	4857'	
e. Bell Canyon	5100'	Oil
f. Cherry Canyon	6400'	Oil
g. Bone Spring	9003'	Oil
h. 3rd Bone Spring	11632'	Oil
i. Wolfcamp	12071'	Gas
j. Strawn	14218'	Gas
k. Atoka	14439'	Gas

3. Casing Program:

See		<u>Interval</u>	<u>OD Csq</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Condition</u>	<u>Collapse</u> <u>Design</u> <u>Factor</u>	<u>Burst</u> Design Factor	<u>Tension</u> Design Factor
Cor	17-1/2"	-800	13-3/8"	48#	ST&C	H-40	New	2.86	6.42	8.39
		855						770#	1730#	
	12-1/4"	4950'	9-5/8"	40#	LT&C	J-55	New	1.24	1.9	2.63
	·			25#	Butt			2570#	3950#	
	8-3/4"	14500'	7"	29#	_LI&C	N-80	New	1.15	1.34	1.6
		DVT @ 8000'		Per Opera	tol 11-4-10 G	Jh J		7020#	8160#	

Collapse and burst loads calculated using Stress Check with anticipated loads

4. Cement Program

a. 13-3/8"	Surface	Circulate cement to Surface w/ 530sx PP w/ 4% Bentonite + .125#/sx Poly E Flake + 2% CaCl2, 13.5 ppg 1.75 yield, 165% Excess, 24hrCS-985# followed by 440sx PP w/ 1% CaCl2, 14.8ppg 1.34 yield, 165% Excess, 24CS-2500#
		not circulated, the BLM will be notified, a temperature survey will be run and will be followed by top jobs as necessary to circulate cement to surface.
b. 9-5/8"	Intermediate	Circulate cement to surface w/ 1260sx HES light PP w/ 5% salt + .125#/sx Poly E Flake + 5#/sx Gilsonite, 12.4 ppg, 2.12 yield, 100% Excess, 24hrCS-670# followed by 200sx PP w/ 1% CaCl2, 14.8 ppg 1.34 yield, 100% Excess, 24hrCS-1520#
c. 7"	Production	1st stage-Cement w/ 450sx IFH w/ 3% Econolite + .125#/sx Poly-E-Flake + .3% HR-601, 11.9 ppg, 2.54 yield, 200% Excess, 24hrCS-370# followed by 1070sx 50/50 Poz/Prem w/ 2.5#/sx salt + .4% HR-344 + .5% CFR-3 + .125#/sx Poly E Flake + .3% HR-601, 14.4 ppg, 1.26 yield, 200% Excess, 24hrCS-1350# 2nd stage-Cement w/ 400sx IFH w/ 3% Econolite + .125#/sx Poly-E-Flake, 11.9 ppg, 2.53 yield, 200% Excess, 24hrCS-320# followed by 200sx 50/50 Poz/Prem w/ 2.5#/sx salt + .4% HR-344 + .5% CFR-3 + .125#/sx Poly E Flake, 14.4 ppg, 1.26 yield, 200% Excess, 24hrCS-1150#

The above cement volumes could be revised pending the caliper measurement.

5. Pressure Control Equipment:

0-800- \$55 800-14500

None

10M Per Operator, 10-29-10 13-5/8" 10M two ram stack w/5M annular preventer, 10M Choke Manifold

2,000

All BOP's and associated equipment will be tested to 1200psi with a third party BOP testing service before drilling out the 13-3/8" casing shoe. Prior to drilling out the 9-5/8" casing shoe, the BOP's and Annular preventer will be tested in accordance with On-shore Order #2.



Pipe Rams will be operated and checked each 24-hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily driller's log. A 2" kill line and 3" choke line will be incorporated in the drilling spool below the ram-type BOP. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having a 5000 psi WP rating. OXY requests that the entire system be tested as a -6000 psi WP rating 10, 00010,000

Request variance to connect BOP choke outlet to the choke manifold a co-flex hose that is manufactured by Contitech Rubber Industrial KFT. It is a 3" ID X 35' flexible hose rated to 10000psi working pressure. It has been tested to 15000psi and is built to API Spec 16C. Once the flex line is installed, it will be tied down with safety clamps, certification attached.

6. Proposed Mud Circulation System See COA

	Depth /	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid</u>	Type System
		ppq	sec	Loss	
1	0-800	8.4-8.9	32-34	NC	Fresh Water/MI Gel Spud Mud
855	800-4950'	9.8-10.0	28-29	NC	Brine Water
	4950-13000'	8.6-9.2	28-29	ŃC	Fresh Water
	13000'-TD	13	32-36	10-15	Duo Vis/Poly Pac R

Drilling Program 2

Pump high viscisity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached.

8. Logging, Coring and Testing Program:

- a. Drill stem tests are not anticipated but if done will be based on geological sample shows.
- b. The open hole logging program will consist of GR from Intermediate shoe point to TD.
- c. No coring program is planned but if done will be sidewall rotary cores.
- d. No mudloggers are currently programmed for this well.

9. Potential Hazards:

No abnormal pressures, temperatures or H_2S gas are expected. The highest anticipated pressure gradient would be .55 psi/ft or 5000 psi. If H_2S is encountered the operator will comply with the provisions of Onshore Oil & Gas Order No.6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely.

10. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 45 days. If production casing is run, then an additional 30 days will be needed to complete the well and construct surface facilities and/or lay flow lines in order to place well on production.

HALLIBURTON .

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Job Recommendation

Production Casing

Fluid Instructions

Stage 1		
Fluid 1: Pump 30 bbl of Water Spacer	Fluid Density: Fluid Volume:	8.34 lbm/gal 30 bbl
Fluid 2: Pump 30 bbl of Gel Spacer 2.5 lbm/bbl WG-19 (Gelling Agent)	Fluid Density: Fluid Volume:	8.34 lbm/gal 30 bbl
Fluid 3: Lead with 450 sks Interfill H 3 % Econolite (Light Weight Additive) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.3 % HR-601 (Retarder) Estimated Slurry Properties:	Fluid Weight Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks: Thickening Time:	11.90 lbm/gal 2.54 ft ³ /sk 14.73 Gal/sk 8000 ft 3000 ft 203.27 bbl 449.68 sks 450 sks 06:10
Compressive Strengths @ 187 °F	24:00 48:00 72:00	370 psi 450 psi 620 psi
Fluid 4: Tail-in with 1070 sks 50/50 Poz Premium	Fluid Weight	14.40 lbm/gal
 2.5 lbm/sk Salt (Additive Material) 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.5 % CFR-3 (Dispersant) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) 0.3 % HR-601 (Retarder) 	Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks:	1.26 ft ³ /sk 5.63 Gal/sk 11000 ft 3500 ft 240.12 bbl 1066.60 sks
Estimated Slurry Properties: Compressive Strengths @ 187 °F	Proposed Sacks: Thickening Time: 24:00 48:00 72:00	1070 sks 04:40 1350 psi 1790 psi 2340 psi

DV Tool

8000 ft (MD)

15T Stage-Proposed TOC@ 8000'

2340 psi

72:00



Job Recommendation

HALLIBURTON

Production Casing

Stage	2
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Suge -	,	
Fluid 1: Pump 30 bbl Water Spacer	Fluid Density: Fluid Volume:	8.34 lbm/gal 30 bbl
Fluid 2: Pump 30 bbl Gel Spacer 2.5 gal/bbl WG-19 (Gelling Agent)	Fluid Density: Fluid Volume:	8.33 lbm/gal 30 bbl
Fluid 3: Lead with 400 sks Interfill H 3 % Econolite (Light Weight Additive) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Estimated Slurry Properties: Compressive Strengths @ 140 °F	Fluid Weight Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks: Thickening Time: 24:00 48:00 72:00	11.90 lbm/gal 2.53 ft ³ /sk 14.67 Gal/sk 4500 ft 2837.59 ft 179.22 bbl 397.73 sks 400 sks 04:10 320 psi 430 psi 600 psi
 Fluid 4: Tail-in with 200 sks 50/50 Poz Premium 2.5 lbm/sk Salt (Additive Material) 0.4 % Halad(R)-344 (Low Fluid Loss Control) 0.5 % CFR-3 (Dispersant) 0.125 lbm/sk Poly-E-Flake (Lost Circulation Additive) Estimated Slurry Properties: Compressive Strengths @ 140 °F	Fluid Weight Slurry Yield: Total Mixing Fluid: Top of Fluid: Calculated Fill: Volume: Calculated Sacks: Proposed Sacks: Thickening Time: 24:00 48:00 72:00	14.40 lbm/gal 1.26 ft ³ /sk 5.60 Gal/sk 7337.59 ft 662.41 ft 44.88 bbl 200 sks 200 sks 05: 20 1150 psi 1650 psi 2180 psi

These cement volumes are based on field experience in the area and should be recalculated if a caliper log should become available.

2 NO Stage - Propose TOC @ 4500'

Proposal 245526 v.1

OPL Zack 17 Federal #1 330 FSL 1980 FWL SESW(N) Sec 17 T26S R33E



If road comes into the Northeast corner of pad Oxy will take up and re-seed 60' on south side and 50' on west side of pad

ANNULAR SHAFFER PREVENTER 13 5/8" X 10M



13 5/8" – 10M WP CAMERON "U" TYPE DOUBLE RAM PREVENTER.

> CAMERON DS SHEARING BLIND RAMS BOTTOM FLANGED AND STUDDED TOP

MUD CROSS WITH 4 1/16" X 10M OUTLET FLANGES 13 5/8" – 10M WP

1 1

CAMERON "U" TYPE SINGLE RAM 13 5/8" – 10M WP

FURNISHED 13 5/8"-10M X 11" 10M ADAPTER SPOOL

STACK R

10M CHOKE MANIFOLD CONFIGURATION





Onfinental 9 CONTITECH

Fluid Technology Quality Document

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT. Equipment: 6 pcs. Choke and Kill Hose with installed couplings 3" x 10,67 m WP: 10000 pal Type : Supplier File Number : 412638 Date of Shipment : April 2008 Customer : Phoenix Beattle Co. Customer P.o. : 002491 Referenced Standards / Codes / Specifications : API Spec 16 C Serial No.: 52754,52755,52778,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Furchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Jam Signed : .. Date: 04. April. 2008 Position: Q.C. Manager

🕶 PHOENIX Beattie Meterial Identification Certificate PA No (008330 Cant | HELMENICH & PAYNE INT'L ORULING CANT BAT | 370-388-001 Part No Description Page Matarial Des Day WO No Barton No Test Cart No Bin No Drg No Material Spec A LEG LEG CAR AND A ANY CAR LIFTING & SAVETY ADDRESS TO SAVETY CLARP SOUND 7.227 SAVETY CLARP SOUND 7.227 SAVETY CLARP SOUND 7.227 HT MACKS 38-471 Interior No 2478 2448 SETT/ -100 A-SH 281.0

We hareby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to contorm a relevant industry standards within the requirements of the purchase order as issued to Phoenic Bestle Corporation.

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Ruid Technology Quality Document

	ALITY CON IN AND TES		CATE		cert.	N#1	748	
PURCHABER	Phoenbi Be	attin Co.		F	P.O. 10	:	002491	
CONTRECH ORDER HT:	412538	HOBE TYPE	3*	Ð	Ch	oice and P	Oli Hose	
HORE SERIAL N":	52177	NONINAL / AC	TUAL L	ENGTH		10,67 m	1	
W.P. 68,96 MPH	10000 🛤	T. 103,4	HPs.	15000	pné	Durations	5 0 ~	ad
	See	ettactument.	. (1 pag	18)				
† 16 mm = 10 .	ian.							•
ी 10 mm = 10 								. t
		COLPL	2106					
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	917	Seriel N*	3404		30			
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-+ 12 mms = 25 Type S [*] coupting with	d LED	Sariai M 913 HI MANUFACTURE TONY REMAILT.		AISI 41 AISI 41	30	Term	T7996A 26984 PI Spec 16 perature ra	te:"B"

Pege: 1/1



- PHOENIX Beattie

Form No 100/12 Dentix Bestile Corp Artganer Int Stim III The III Artes IIII Artes IIII Artes III Artes IIII Artes III Artes

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Delivery Note

Customer Order Humber 379-359-001	Dolivery Note Nomber	993678	Page	[1
Clastoriser / Involce Address HELPGICH & PAYNE INT'L DRILLING CO 1427 SCIINT BOLLOOL TULSA, OK 74119	Delivery / Address Helefiich & Pathe Ioc Attn: Joe Stephenson - Ris 13699 Hockstreak Road Hockston, TX 17615	374	a bayar en an	••••••

i	Customer Acc No	Phoenix Beattle Contract Manager	Phoenik Sectio Reference	Date
	H01	JUL	006338	05/23/2008

iteen No	Saettis Part Number / Description	Oty Ordered	Oty Sent	Oity To Follow
1	IPIOCEM-36-4F1 IPIOCEM-36-4F1 IPIOCEM-36-4F1 IPIOCEM-36-4F1 End II-4.1/16' IORSE # 36Fc GAL CM 4.1/16' AFT SPEC FLAMBE E/ End II-4.1/16' IORSE 1AFT Spec GA Type GBK Flange Crit II-58 Standard ring groove at each end Suitable for 1825 Service Working pressure: 18,000pti Test Pressure: 18,000pti	1	1	0
	SEDC3-HPF3 LIFTURE & SAFETY EQUINMENT TO SULT HPIOCK3-35-F1 2 x 100me 10 Safety Clamps 2 x 240me 10 Lift(ng Collars & blament C's 2 x 7ft Stathfest Stat} wine rope 3/4" 00 4 x 7.76t Stacklee	2	t	0
* ;	sc?25-200CS Safety Clamp 200mm 7. 26t C/S Galvarised	l	1	0

- PHOEMX Beattie

Form No 100/12 Phoenix Beattle Corp Utility Fritment Art Inter Mill offic 27-540 No: offic 27-540 we offic 27-540 we offic 27-540

Delivery Note

Cue	tomer Order Number.	379-369-001	Dolivery N	ote Hoend	~	003078	Pego	ž	
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Customer Aca No Phoenik 8 H01		Phoenia Bestlia Contrac	t Meneger	Phoen	èr Routlio F	elivence	Deta		
		LL.)055 33 9		05/23/2008		05/23/2008
itaens Nico	Boett	is Part Number / Descript	len		City Ordered	City Sent	City Folk		
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