HOBBS OCD

District 1 1625 N. French Dr., Hobbs, District II 1301 W. Grand Avenue, Arte District III 1000 Rio Brazos Rd., Aztec District N 1220 S. St. Francis Dr., So	Energ esio, NM 88210 , NM 87410 nto Fe, NM 87505 WEL	gy, Minerols & M OIL CONS 1220 Sou	ERVATION DIVI oth St. Francis Fe, NM 8750 O ACREAGE DE	ces Departme SION RE Dr.	CEIVED Mil	to Approp Stol Fe	l October riate Distr te Lease- e Lease- ENDED RE	3 Copies
38675		SIR ALEX	Property Name FERGUSON	STATE			Weil	Number 1
0GRID No.		OX	Operator Name ' USA INC.	•				evalian 36.7'
			urface Location					<u> </u>
1 1 1	ownship SOUTH 32	Range EAST, N. M. P. M.	Lot Idn Feet from 1980'	he North/South line NORTH	Feet from the 990'	Eost/West EAS		County LEA
		Bottom Hole Loc						
UL or lot no. Section To	ownship	Ronge	Lot Idn Feet from	he North/South line	Feet from the	Eost/West	line	County
Dedicated Acres Joint	or Infill Consolidat	ion Code Order No.						
No allowable will be as division.		mpletion until all into	erests have been	consolidated or	a non-stand	ard unit h	as been	approved by the
4	3 3 1	SURFACE NEW MAD Y=488 X=703 LAT.: N 32 LONG.: W 10	LOCATION ICO EAST 1927 3326.3 705.4 2 3353029	990'	Signo I her show field me cotte the signor specific the state of the	pined hereine best of a control of the control of t	that the n is true my knowl this orga working in al interest troposed b a right talion purs in owner cing agreement division. CERTIFICAT That the diot was included so the state of the st	information and complete ledge and conjugation terest or in the land ottom hole to drill this want to a of such a set, or to a ent or a heretolore TOON TO
	<u> </u>	l		***************************************	Certil	icote/Numb		5079 514WL-b (KA)

District I

1625 N. French Dr , Hobbs, NM 88240 Phone.(505) 393-6161 Fax:(505) 393-0720

District II

1301 W. Grand Ave., Artesia, NM 88210 Phone (505) 748-1283 Fax: (505) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec. NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 <u>District IV</u>
1220 S St Francis Dr . Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 **State of New Mexico**

Form C-102 Permit 133422

Energy, Minerals and Natural Resources

Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

HOBBS OCD

JUN 22 2011

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30 - 025 - 40171	2 Pool Code 17644 96403	April 101-11	ol Name L;BONE SPRING	
38675	5. Proper SIR ALEX FERO	6. Well No 001	,	
7. OGRID No. 16696	8. Operat OXY US	9. Elevation 3637		

10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County	l
Н	4	23S	32E		1980	N	990	E	LEA	l

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Li	ine	Feet From	E/W Line	County
	cated Acres	13.	Joint or Infill		14. Consolidation Code		15. Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		E)

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

E-Signed By: KAREN M SINARD

Title:

Date: 6/21/2011

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Terry Asel
Date of Survey: 6/14/2011
Certificate Number: 15079

Operator Name/Number:

OXY USA Inc.

16696

17644

Lease Name/Number: Pool Name/Number:

Sir Alex Ferguson State #1 **Diamondtail Bone Spring**

VB-0976-2

Surface Location:

C-102 Plats:

1980 FNL 990 FEL (H) Sec 4 T23S R32E

SAFS-1

6/14/11

6/16/11

Proposed TD:

9000'

SL - Lat: 32.3353029

Long: 103.6738027

Y=486326.3 X=703705.4

NAD-1927 Elevation: 3636.7'

Casing Program:

Hole Size	<u>Interval</u>	OD Csg	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	Condition	Collapse Design Factor	<u>Burst</u> <u>Design</u> <u>Factor</u>	Tension Design Factor
14-3/4"	800'	11-3/4"	42#	ST&C	H40	New	4.04	3.93	
10-5/8"	4700'	8-5/8"	32#	LT&C	J55	New	2.00	2.62	
7-7/8"	9000'	5-1/2"	17#	LT&C	J55	New	1.19	1.36	
DVT @	9 6000' & 47	50'							

Collapse and burst loads calculated using Stress Check with anticipated loads

Cement Program

a. 11-3/4" Surface Circulate cement to surface w/ + 290sx PP cmt w/ 4% Bentonite + .25#/sx Poly-E-Flake + 2% CaCl2, 13.5ppg, 1.75 yield, 689# 24hr CS, 150% Excess followed by 300sx PP cmt

w/ 2% CaCl2, 14.8ppg, 1.35 yield, 2500#-24hr CS, 150% Excess

b. 8-5/8"

Intermediate Circulate cement to surface w/ 1080sx HES light PP cmt w/ 5% Salt + .125#/sx Poly-E-Flake + 5#/sx Gilsonite + 0.5% Halad-344 + 1% CaCl2, 12.9ppg, 1.87 yield, 851# 24hr CS, 150% Excess followed by 200sx PP cmt w/ 1% WellLife 734, 14.8ppg, 1.34 yield, 1343#-24hr CS, 150% Excess

c. 5-1/2" Production Cement 1st stage w/ 650sx Super H cmt w/ .5% Halad-344 + .4% CFR-3 + 5#/sx Gilsonite + 1#/sx salt + .3% HR-800 + .125#/sx Poly-E-Flake, 13.2ppg, 1.62 yield, 981# 24 CS,

100% Excess, Calc TOC-5995'

Cement 2nd stage w/ 410sx Super H cmt w/ 1#/sx Salt + .125#/sx Poly-E-Flake + 5#/sx Gilsonite + 0.4% CFR-3 + 0.5% HR-344, 13.2ppg, 1.61 yield, 1536# 24hr CS, 200%

Excess, Calc TOC-4745'

Cement 3rd stage w/ 460sx HES Light PP cmt w/ 3#/sx Salt, 12.4ppg, 2.08 yield, 560# 24CS, 35% Excess followed by 150sx PP cmt w/ .125#/sx Poly-E-Flake + 5#/sx Gilsonite, 14.8ppg, 1 33 yield, 1750# 24CS, 35% Excess, Circ Surface

Proposed Mud Circulation System

<u>Depth</u>	Mud Wt.	<u>Visc</u>	Fluid	Type System
	ppq	<u>sec</u>	Loss	
0 - 800'	8.4-8.8	32-38	NC	Fresh Water/Spud Mud
800 - 4700'	10	28-29	NC	Brine Water
4700 - 5500'	8.5-9 0	28-29	NC	Fresh Water
7600 - TD'	9.0	32-38	<10	LSND

Pump high viscosity 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.

BOP Program:

Surface

None

Production

11" X 5M Double Ram, 11" X 3M Annular, 5M Choke Manifold

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

Geological Marker	<u>Depth</u>
a. Anhydrite	800'
b. Bottom Salt	4700'
c. Yates-7R-Queen	4800'
d Delaware	4700'
e. Bone Spring	8700'



