State of New Mexico Energy, Minerals & Natural Resources

Form C-101 May 27, 2004

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Fra



Oil Conservation Divsiion 1220 S. St. Francis Dr. DEC

Santa Fe NM 87505 OCA

Submit to appropriate District Office

☐ AMENDED REPORT

APPLI(	IS Dr., Santa I CATION	FOR P	os ERMIT T	O DRIL	L, RE-E	NTE	R, DEEPEN	ARTES!	ACF	K, OR ADI	AZ	ONE
		<sup>1</sup> Op	erator Name an						<sup>2</sup> OGRID Number 015742			
Nearburg Pr	-	•	O Midland	4 TV 707/	) F	<sup>3</sup> API Number						
3300 N A St	rty Code	, ste 1/	20, MIGIAN	1, 11 /9/(	<sup>5</sup> Property	Name		30- 15-	30- 15-28885 <sup>6</sup> Well No.			
	Osage							10			5	
Wil	dical	9 Proposed	Pool1 Bone Spri	ng				<sup>10</sup> Propo	sed Po	ool 2		
					<sup>7</sup> Surface 1	Locat	tion		•			
UL or lot no.	Section 15	Township 19S	.   •		Feet from the 660		North/South Line South	Feet from 660	the	East/West line West		ounty Eddy
		8 ]	Proposed E	Bottom H	ole Locat	ion If	Different Fr	om Surfac	e			
UL or lot no	Section	Township	Range	Lot. ldn	Feet from		North/South Line	Feet from		East/West line	Co	ounty
		···		Ado	litional W	ell L	ocation					
11 Work Tyj Plug			Well Type Cod O or G	le	13 Cable/R	Rotary	<sup>14</sup> Le	ase Type Code State		15 Ground L 3	evel Eleva	ation
<sup>16</sup> Multi	•		7 Proposed Dept	h	18 Forma		19	Contractor			id Date	
No Depth to ground			8350	Distance from	Wolfo nearest fresh		vell	Mesa Distance from	neares	st surface water	1/08	
Pit. Liner: Syn	thetic	mils	thick Clay	/ Pit	Volume	1	bbls Drilling Me	thod:		· · · · · · · · · · · · · · · · · · ·	· · <del></del>	
Closed-Lo	op System [			)	1	Fresh W	ater Bri	ne Die	esel/Oi	l-based	Gas	s/Aır 🔲
			<sup>21</sup> F	Proposed	Casing an	d Ce	ment Prograi	n				
Hole S	ize	Ca	sing Size		eight/foot	Setting Depth Sacks of Cement Estimated TOO				тос		
14-3/	/4	9	-5/8	36		1115 (		950	0		NA	
8-3/	4		7	23 8	& 26		8350	1505		NA		
All csg is	existing											
								4.				
			:									
Describe the property Describe the blow	proposed prog	ram. If this	application is t	to DEEPEN o	r PLUG BAC Inecessary	K, give	e the data on the p	resent producti	ve zon	e and proposed t	new proc	luctive zone.
	plugback	the wel	•			g for	mation. Per	f, test ar	nd st	imulate as	neces	sary
	'											
See attache	ea proceat	ire.										
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and bales. I further certify that the drilling pit will be						OIL CONSERVATION DIVISION						
constructed according to NMOCD guidelines \(\begin{align*} & a general permit \( \begin{align*} & or \\ & an (attached) atternative \( \hat{OSD} \)-approved plan \( \begin{align*} & . \end{align*}						Approved by:						
Signature: / ////										ARRANT I GEOLOG	Her	
Printed name: Se	ran Jord roduction					Title:	oval Date. <b>DEC</b>		Τ			6 2008
E-mail Address:		nearburg					)			<u> </u>		
Date:	<del> </del>		Phone:			Conditions of Approval:						
			432/68	36-8235 x	203	Attacl	hed					j

\* District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico

Energy, Minerals & Natural Resources Department

### OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code Property Code OGRID No. Elevation Lot Idn East/West line Section Township Range Feet from the North/South line Feet from the County UL or lot no. 250 Bottom Hole Location If Different From Surface Range Lot Idn Feet from the North/South line Feet from the East/West line UL or lot no. Section Township County 12 Dedicated Acres <sup>13</sup> Joint or Infill Consolidation Code 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.

	7		,
16		;	17 OPERATOR CERTIFICATION  I hereby cerufy 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 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 hybridize entered by the division  Suprature  Date  18 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
<u>ulo'</u>			and correct to the best of my belief.  Date of Survey Signature and Seal of Forestonal Surveyd.  Certificate Number

#### Osage Boyd 15 #5

- 1) MIRU PU. NO WH & NU BOP.
- 2) PU & RIH w/2-7/8" J-55 tbg to circulate well with abanodonment mud to 5500°. PUH to 5600° and circulate well with clean w/2% KCL. POH w/tbg.
- 3) RU JSI to make gauge ring/junk basket run to make sure casing is clear to PBTD @ 6855'. Set 7" CIBP @ 5765' (at the Top of the Wolfcamp) and cap with 35' cmt. Test casing to 3,500#.
- 4) RU JSI to perforate from:

5106-5126

with 4 spf premium charges phased 120 degrees and correlated to Schlumberger "Platform Express Compensated Neutron Litho-Density" Log run #One dated 11May 1996. RD JSI.

5) PU 7" packer and RIH to +/-5000' on 2-7/8" J-55 tbg (tested to 5750#) and pump 250 g Xylene and 500 g acid to the EOT. Circulate the acid back out the tbg w/2% KCL to pickle. Set pkr Test BS to 500#. Swab well down to determine if formation/perfs are open. Acidize as per step 5 if inflow is insignificant.

6) RU BJ to acidize with 1000g 7.5% NEFE as follows:

Stage	Volume (gals)	<u>Fluid</u>	Rate (bpm)
1	250 g	7.5% NEFE	4
2	Drop 35 balls	1.3 sg	
3	250 g	7.5% NEFE	4
4	Drop 35 bails	1.3 sg	
5	250 g	7.5% NEFE	4
6	Drop 30 balls	1.3 sg	
7	250 g	7.5% NEFE	4
10	Displace to top perf v	v/2% KCI	

Get ISIP, 5 min, 10 min, 15 min pressures. RD BJ.

7) Swab/Flow back acid load. Swab for 1 to 2 days to get an idea of fluid entry/type from the formation. If fluid cut and rate is encouraging (good oil cut (GT 50% and )) set up to frac well with 120,000# SLC proppant at 25 to 30 bpm in Medallion 3000 gel as per attached BJ procedure.

Stage	Fluid	Vol(g)	ppg	Prop	Stage#	Cum#
1	Medallion 3000	30,000		PAD		
2	•	12,000	1	SLC 20/40	12,000	12,000
3	"	12,000	2	SLC 20/40	24,000	36,000
4		12,000	3	SLC 20/40	36,000	72,000
5	•	12,000	4	SLC 20/40	48,000	120,000
6	30# Linerar Gel	8,467		Flush		

SD and get ISIP, 5, 10, and 15 minut SIP's. RD BJ. Let resin coated sand "set up" overnight then flow back the next day.

8) Flow back & clean up wellbore. Run production equipment to pump from 5350' as per attached design. At 6 spm in the middle hole and with a 1.25" pump the equipment should be able to lift 71 bfpd with a .75 (3/4") KD rod string and 300' of 1-3/8" k bars from 5175' (pump depth).

OD of Couplings	iameters (in)	Diameters (ii D		Diameters (ın)	Wt/Ft w/ Coup	Wt/Ft w/ Coup	Tubing	Tubing
3 5	3 094	2 347	2 441		6 5	6 4	N-80	2.875
					Burst	Collapse		
					(psi)	(psi)	OD of Couplings (in	
				X 8=	10,570	11,160	3 668	
OD of Couplings	iameters (in)	Diameters (II D		Diameters (in)	uplinas (lb)	uplinas (lb)	Tubing	Tubing
	3 094	2 347	2 441	,	6.50	6.40		2.875
					Burst	Collapse		
					(psi)		OD of Couplings (in	
		5,808	=8. X		7,260	7,680	3 668	
OD of Couplings	iameters (ın)	Diameters (ii D		Diameters (in)	Wt/Ft w/ Coup	Wt/Ft w/ Coup	Tubing	Tubing
4 25	3 75	2 867	2 992		93	9 2	P-105	3.5
					Burst	Collapse		
					(psi)	(psi)	OD of Couplings (in	
					13,340	13.050	4.5	
					X .8	,		
					10672			

Casing Casing	Casing		Diameters	Diameters Drift	Coupling OD	Pipe Strength Collapse	Pipe Strength Burst
<b>7"</b> K-55		23	6.366	.6.241	7.656	3,270	4,360 <u><i>X .8</i></u> <b>3,488</b>

# <u>CURRENT</u> WELLBORE DIAGRAM

LEASE: Osage Bo	yd 15	WELL:	#5	FIELD:	: Dagger	Draw North	API:	30-015-28885
LOC: 660' FSL	& 660' FWL	SEC:	15	BLK:			Reservoir	
SVY: T19S, R2		GL:	3,470'	CTY/ST	000000000000000000000000000000000000000	ounty, NM	SPUD:	4/20/1996
CURRENT STATUS	S:	KB:	3,483'	DF:	3,482'		TD DATE:	5/14/1996
	1 1			1 1			COMP. DATE:	10/19/1996
						HOLE SIZE:	14 3/4"	COMMENTS:
	1 1			1 1		SURF CSG & SIZE:	9 5/8" 36# J55	
FRESH WATER						SET @:	1,115'	
DEPTH:						SXS CMT:	950 sx	
						CIRC:	yes: 66 sx	
						TOC AT:		
						TOC BY:		
					7			******GEOLOGY*****
								TOPS OF ALL ZONES
								PRODUCTIVE OF HYDRO-
	ľ			ľ		•		CARBONS:
								<del></del>
					DIV. I	O ( 010)		
					DV tool	@ 6,018 <sup>,</sup>		
							•	CURRENT PERFS:
TBG:								
JTS:		CIDD OF FOOL		<		0=41		
EOT	1 '	CIBP @ 7,700' w	/ 35' cmt	∠ pe	erfs 6,967-6	,976'		
			Tana Sana					
	्रे <sub>क</sub> ज्ल्स							SQUEEZE JOBS:
PKR:				≯ pe	erfs 7,726'-'	7,731'		
TYPE: SET @	1,	CIBP @ 8,085' w	/ 35' cmt	ر ا	erfs 7,752'-	7 845'		
				"		,,015		
	: 1⊌.1 2			1				
	1			<u>چ</u> ۔	erfs 8,098'-8	) 123!		
				Pe	: 15 0,076 -	5,1 J <i>L</i>		
						HOLE SIZE:	8 3/4"	
						PROD. CSG & SIZE:	7" 23 & 26# K55, N	80, & S95
			,			SET @:	8,350'	
						SXS CMT:	1505 sx	
PBTD: 7,665'	İ					CIRC:	233 sx	
TD: 8,350'	<b>/</b>			l l		TOC BY:	surface	
			ļ	7				RV. DI V
								BY: DLY

11/29/2007

## PROPOSED WELLBORE DIAGRAM

