Submit 1 Copy To Ap			ATIOME of New M			Form C-103 Revised July 18, 2013
District 1 ~ (575) 393-	6161 Johns NIM 88240	I CON DIBINA	gy, Minerals and Nat	urai Resources	WELL API NO.	Revised July 18, 2013
District I ~ (5/5) 393- 1625 N. French Dr., F District II ~ (575) 748		AY 17 201	6 CONSERVATIO	NOIVISION	30-015-43116	
811 S. First St., Artesi <u>District III</u> - (505) 33-		O11.	1220 South St. Fra		5. Indicate Type	
1000 Rio Brazos Rd.,	Aztec, NM 87410	RECEIVED	Santa Fe, NM 8		STATE	
<u>District IV</u> – (505) 476 1220 S. St. Francis Dr 87505	6-3460 r., Santa Fe, NM		Santa I C, I WI	77505	6. State Oil & G	as Lease No.
(DO NOT USE THIS DIFFERENT RESER	FORM FOR PRO	POSALS TO DR	REPORTS ON WELL ILL OR TO DEEPEN OR P PERMIT" (FORM C-101) I	LUG BACK TO A	7. Lease Name of HIGGINS CAH	r Unit Agreement Name OON 12D
PROPOSALS.) 1. Type of Well:	Oil Well	Gas Well	Other		8. Well Number	
2. Name of Opera		I-A, L.P.			9. OGRID Numl	per 277558
3. Address of Op	erator				10. Pool name or	
c/o Mike Pippin I	LLC, 3104 N. S	ullivan, Farm	ington, NM 87401		Atoka, Glorieta-	/eso (3250)
4. Well Location		: 990	fact from the North	line and Of	90 feet from the	West line
Unit Lett Section	ter <u>D</u> 12	. 990	feet from the <u>North</u> Township 18-S	line and 99 Range 26-E	on the NMPM B	
Section	12	a 11 Eleva	ation (Show whether Di			ddy County
		3288' GI				
	12 (0)	A	4. 10 4 . Y., d' 4. 1		Domont on Odlon	Data
		•••	te Box to Indicate l		~	
	OTICE OF			ľ	SEQUENT RE	-
PERFORM REME			ND ABANDON 🗍	REMEDIAL WOR	KK ∐ KILLING OPNS.□	ALTERING CASING P AND A
PULL OR ALTER		☐ CHANGE ☐ MULTIPE	EPLANS ⊠ LECOMPL □	CASING/CEMEN		LYMDY [7]
DOWNHOLE CO	-				_	
CLOSED-LOOP S	SYSTEM [\boxtimes	_			-
OTHER: Chang	e Approved AF	D to 3 Strings	of Casing 🗵	OTHER:		
of starting	proposed or con gany proposed completion or a	work). SEE I	RULE 19.15.7.14 NMA	pertinent details, and the Co. For Multiple Co.	nd give pertinent dat ompletions: Attach	es, including estimated date wellbore diagram of
In order to comply	with the antici	pated new rule	es for wells in Exhibit '	'A" area of E-42 and	d not release our con	tracted drilling rig, Lime
		•	owing csg & cmt chan			2 0,
HOLE SIZE	CSG SIZE	DEPTH	CMT			
26"	20"	80'	100			
17-1/2"	13-3/8" .	400'	400 sx			
7-7/8"	8-5/8" 5-1/2"	1000' 4603'	500 sx 200 sx lead & 750 s	v tail		
7-110						
			l show will be ~1050' a			dres. If the highest oil
See the attached de			ordingly so as to stay 50	above the ingliest	on show.	
I hereby certify tha	t the information	on above is tru	ue and complete to the	hest of my knowled	ge and belief.	
,	W 1		<u>-</u>		-	
SIGNATURE	Thise	Tupper	TITLE Peti	oleum Engineer - A	gent DATE	5/16/16
Type or print name	Mike P	ippin_	E-mail addre	ss: <u>mike@pipr</u>	oinllc.com PF	IONE: <u>505-327-4573</u>
For State Use Onl						
APPROVED BY:			TITLE		DA DA	ATE
Conditions of Appr	roval (if any):			"Der	nea	

Lime Rock Resources II-A, L.P. Drilling Plan

Higgins Cahoon 12D #3 990' FNL 990' FWL (D) 12-18S-26E Eddy County, NM

- 1. The elevation of the unprepared ground is 3288 feet above sea level.
- 2. The geologic name of the surface formation is Quaternary Alluvium.
- 3. A rotary rig will be utilized to drill the well to 4603' and run casing. This equipment will be rigged down and the well will be completed with a workover rig.
- 4. Well will be drilled to a total proposed depth of 4603' MD.
- 5. Estimated tops of geologic markers:

	MD	TVD
Quaternary - Alluvium	Surface	Surface
Yates	NA	NA
7 Rivers	NA	NA
Queen	349	349
Grayburg	763	763
Premier	969	969
San Andres	1053	1053
Glorieta	2322	2322
Yeso	2442	2442
Tubb	3903	3903
TD .	4603	4603

 Estimated depths at which anticipated oil, gas, or other mineral bearing formations are expected to be encountered:

	MD	TVD
Yates	NA	NA
7 Rivers	NA	NA
Queen	349	349
Grayburg	763	763
Premier	969	969
San Andres	1053	1053
Glorieta	2322	2322
Yeso	2442	2442
Tubb	3903	3903
TD	4603	4603

7. Proposed Casing and Cement program is as follows:

Туре	Hole	Casing	[®] Wt :	Grade	Thread	Depth	Sx	Density	Yield	Components
Conductor	26"	20"	91.5	8	Welded	80	100			Ready Mix
Surface	17-1/2"	13 -3/8"	54.5	J-55	ST&C	400	400	14.8	1.35	CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CaCl2
Intermediate	1200	8-5/8"	24	J-55	ST&C	1000	500		1.4	CI C Cmt + 0 25 lbs/sk Cello Flake + 2% CaCt2
	124									
Production	7-7/8"	5-1/2"	17	J-55	LT&C	4603	200	12.8	1.903	(35:65) Poz/Ci C Cmt + 5% NaCl + 0 25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 +0 2% R-3 + 6% Gel
							750	14.8	1.33	CI H w/ 0 6% R-3, 0 125% Cello Flake, 2% Gel

FRESH HOW 1000

8. Proposed Mud Program is as follows

0-400	400,4453	4453-4603
Fresh Water Mud	Brine	Brine, Salt Gel, & Starch
8.4-9.2	9.8-10.1	9.9-10.1
9.0-10.5	10.0-12.0	10.0-12.0
NC	NC NC	20-30
28-34	28-29	32-34
NC	NC NC	<2
NC	<2%	<3%
300-500 gpm	375-425 gpm	400-425 gpm
	Use Poymers sticks and MF-55 Hi-Vis Sweeps as necessary	Hi Vis Sweeps, add acid and starch as req. Raise Vis to 35 for log.
	8.4-9.2 9.0-10.5 NC 28-34 NC	Brine Brine Brine

Pressure Control Equipment: See Attached Description and diagram of Pressure Control Equipment.

10. Testing, Logging and Coring Program

Testing Program: No drill stem tests are anticipated

Electric Logging Program: SGR-DLL-CDL-CNL Quad Combo from 4603 to surf. Csg. SGR-CNL to Surf.

Coring Program: No full or sidewall cores are anticipated.

11. Potential Hazards:

No abnormal temperatures or pressures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2025.32 psi based on 0.44 x TD. The estimated BHT is 125 degrees F.

12. Duration of Operations:

Anticipated spud date will be soon after approval and as soon as a rig will be available. Move in operations and drilling is expected to take 10 days. An additional 14 days will be needed it complete the well and to construct surface facilities.

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Well Name	Higgins Cahoon 12D #3	Operator		Burface Location: 990' FNL and 990' FWL	990' FNL and 990' FI	٨٢	GL Elevation: 3288.0	3288.0		
S-T-R & Unit()	(D) 12-185-26E	Lime Rock		BH Location :	BH Location: 990' FNL and 990' FWL	7	RKB	RKB: 3300.8		
Well Type	Vertical	Resources (I-A, L.P.		Productive Targets: Atoka; Glorieta-Yeso	Atoka; Glorieta-Yes		Frac			
	KOP	¥	Target for Vertical		āVī	4603			A STATE OF THE STA	
			,	Geology	٠					
	7 Rivers	Queen	Grayburg	Premier	San Andres	Glorieta	Yeso	Tubb	A	4
TVD	NA NA	349	763	696	1053	2322	2442	3903	4503	4603
Q										

								Jesign Factors	
Type	Hole Size	Casing Size	Weight	Orade	Thread	Depth	ł	Burst	Tension
Conductor	.97	20.	91.5	8	Weld	8	≨	ş	≨
Surface	17-1/2"	13 -3/8"	54.5	55-1	ST&C	400	77	1.18	7
ntermediate	11/11/11	8-5/8"	**	55-f	ST&C	1000	1.2	1.18	2
Liner	· ·								
Production	1-1/8	5.172	11	7-55	LT&C	4603	1.18	1.2	7

Casing Depth Stury Vol, sx Sacks Density 13-3/8" 400 1 Stury Vol, sx Sacks Density 8-5/8" 1000 Lead 500 14.80 1000 Tall 1000 14.8 1000 Tall 1000 12.8 1000 Lead 200 12.8 1000 Lead 200 12.8 1000 Lead 200 12.8	1.35 CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CeCl2 1.4 CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CeCl2 1.4 CI C Cmt + 0.25 lbs/sk Cello Flake + 2% CeCl2 1.903 (36:56) Poz/CI C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 0.2% R- 1.903 (36:56) Poz/CI C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake + 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.25 lbs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 5% Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 5% Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 5% Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5 lbs/sk LCM-1 + 0.2% R- 1.303 (36:56) Poz/CI C Cmt + 5% NaCl + 0.2% Ibs/sk Cello Flake - 5% Day
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