-						
Form 3160-5	UNITED STATES	0	CD Artesia	FC	DRM APPROVED	•
March 2012) DEI	PARTMENT OF THE I	NTERIOR	алан 1	- Exp	MB No. 1004-0137 bires: October 31, 2014	
BUR	EAU OF LAND MANA	GEMENT		5. Lease Serial No. LC - 029418-B		
SUNDRY N	NOTICES AND REPO	RTS ON WELLS		6. If Indian, Allottee or	Tribe Name	
abandoned well.	Use Form 3160-3 (AF	D) for such prop	er an osals.	N/A		
SUBMI	T IN TRIPLICATE – Other i	nstructions on page 2.	· · ·	7. If Unit of CA/Agreen	nent, Name and/or No.	
Type of Well		· · · · · · · · · · · · · · · · · · ·		N/A		
✓ Oil Well Gas V	Vell Other			Lea C #9		
Name of Operator apstone Natural Resources, LLC				9. API Well No. 3001520648	•.	
a. Address 50 E 73rd St. Suite 500,		Bb. Phone No. <i>(include al</i>	rea code)	10. Field and Pool or Ex Gravburg Jackson 7-	rivers-ON-BG-SA	
Isa, OK 74136	R M or Survey Description	918-236-3800		11 County or Parish St	ate	
E SW 660' FSL & 1980' FWL, SEC 11, TOWH	ISHIP 17S, RANGE 31E			Eddy County, New M	exico	
12. CHE(CK THE APPROPRIATE BOX	(ES) TO INDICATE NA	ATURE OF NOTIC	E. REPORT OR OTHE	R DATA	
TYPE OF SUBMISSION			· TYPE OF ACT	ION		
	Acidiza	Deeper		uction (Start/Reguma)	Water Shut Off	
✓ Notice of Intent	Alter Casing	Fracture Treat		mation	Well Integrity	
	Casing Repair	New Constructio	on Reco	mplete	Other	
Subsequent Report	Change Plans	D Plug and Abando	on 🗖 Temp	orarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back	Wate	r Disposal	•	•
determined that the site is ready for IIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with b	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string.	tion tubing. Pick up 4 win reverse unit. Rig u Rig up wire line and ru	3/4 bit, collars, ar up air foam unit ar n open hole logs.	letion in a new interval, a reclamation, have been o nd work string. TIH an nd deepen well 325' to (Borehole Profile Gai (bt +/ 0.50) of 4".	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated	has has unit and Neutror
determined that the site is ready for MIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with b hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm irculate clean. RD cement equipm acker and 3 1/2 work string and TI rith +/- 2300 bbls,25# fresh water g vorkstring. TIH with 2 3/8 production	Abandonment Notices must be or final inspection.) with pump, rods, and produc int, and casing shoe. Rig do it, collars, and work string. .aterolog Gamma Ray). Rig nent and pump +/- 50 sx of nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and	tion tubing. Pick up 4 why reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% line and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro	3/4 bit, collars, ar ap air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e als 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been o nd work string. TIH an nd deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 I stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	has has l Neutron o of liner ts and PU interval d 3 1/2
determined that the site is ready for AIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with b hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm irculate clean. RD cement equipm acker and 3 1/2 work string and Th rith +/- 2300 bbls,25# fresh water g orkstring. TIH with 2 3/8 production	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of tent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u class C cement with 2% bline and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been o nd work string. TIH an nd deepen well 325' to (Borehole Profile Gar /ith +/- 950' of 4", 9.11 I stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	has e unit an l Neutroi o of liner ts and PU i interval d 3 1/2
determined that the site is ready for AIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with to hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm irculate clean. RD cement equipm acker and 3 1/2 work string and TI ith +/- 2300 bbls,25# fresh water go vorkstring. TIH with 2 3/8 production SEE ATTA CONDITION	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of do tent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u class C cement with 2% dine and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail enc e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ad work string. TIH an ad deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	has e unit and o of liner ts and PU interval d 3 1/2
determined that the site is ready for AIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Xirculate bottoms up. TOOH with the Yhoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm inculate clean. RD cement equipm acker and 3 1/2 work string and TI with +/- 2300 bbls,25# fresh water of yorkstring. TIH with 2 3/8 production SEE ATTA CONDITIO	Abandonment Notices must be or final inspection.) with pump, rods, and produc int, and casing shoe. Rig do jit, collars, and work string. _aterolog Gamma Ray). Rig nent and pump +/- 50 sx of the tand TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR NS OF APPROV/	tion tubing. Pick up 4 why reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	a once has a unit and o of liner ts and PU interval d 3 1/2
determined that the site is ready fo AIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with to 'noto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and The ith +/- 2300 bbls,25# fresh water go rorkstring. TIH with 2 3/8 production SEE ATTA CONDITION	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of do tent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and ACHED FOR NS OF APPROV/	filed only after all require filed only after all require tion tubing. Pick up 4 pwn reverse unit. Rig u Rig up wire line and ru down wireline. Pick u class C cement with 2% class C cement with 2000 ga sand, 50,000# of resin TIH with pump and ro AL	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail enc e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of the work string. TIH an and deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	has e unit and o of liner ts and PU i interval d 3 1/2
determined that the site is ready for IIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with the hoto Density, Gamma Ray, Dual L 3,395'. Rig up cementing equipm rculate clean. RD cement equipm acker and 3 1/2 work string and TI ith +/- 2300 bbls,25# fresh water co orkstring. TIH with 2 3/8 production SEE ATTA CONDITIO	Abandonment Notices must be or final inspection.) with pump, rods, and produc int, and casing shoe. Rig do bit, collars, and work string. aterolog Gamma Ray). Rig nent and pump +/- 50 sx of o thent and TOOH. Rig up wirk H. Set PKR at +/- 3,350' an gel system, 150,000# 16/30 bit tubing and BHA. RU and CHED FOR INS OF APPROV	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% eline and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 I stage. Drop ball and xact perf interval TBD Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	a once has a unit and o of liner ts and PU interval d 3 1/2
determined that the site is ready fo IIRU workover service rig. TOOH ' wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with t hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and TH ith +/- 2300 bbls,25# fresh water c vorkstring. TIH with 2 3/8 production SEE ATTA CONDITIO	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 bin tubing and BHA. RU and CHED FOR INS OF APPROV A true and correct. Name (Printed.	AL CCCEDIED for I Typed) Typedy Typedy Typedy Tipe of the type the and perforate zon- the and	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail enc e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar ith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 MMOCD ART	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	a once has a unit an l Neutro o of liner ts and PU interval d 3 1/2
determined that the site is ready fo MIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Sirculate bottoms up. TOOH with b hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and TH rith +/- 2300 bbls,25# fresh water c vorkstring. TIH with 2 3/8 production SEE ATTA CONDITIO 4. I hereby certify that the foregoing is the avid Ricks	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV A true and correct. Name (Printed,	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% eline and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro AL CCEPTED for I	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	a once has e unit and o of liner ts and PU i interval d 3 1/2
determined that the site is ready fo IIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo irculate bottoms up. TOOH with the hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and The ith +/- 2300 bbls,25# fresh water of vorkstring. TIH with 2 3/8 production SEE ATTA CONDITION 4. I hereby certify that the foregoing is the avid Ricks	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of the final pump +/- 50	AL (Typed) Alternative of the province of th	all bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e als 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar ith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 MMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production.	a once has e unit and o of liner ts and PU interval d 3 1/2
testing has been completed. Final determined that the site is ready for the site is read	Abandonment Notices must be or final inspection.) with pump, rods, and produc int, and casing shoe. Rig do oit, collars, and work string. aterolog Gamma Ray). Rig nent and pump +/- 50 sx of o nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV A true and correct. Name (Printed)	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% eline and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro AL CCEPTED for I Title Pre Date 12	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e als 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED	a once has e unit and o of liner ts and PU interval d 3 1/2
testing has been completed. Final determined that the site is ready fo lIRU workover service rig. TOOH with the hoto Density, Gamma Ray, Dual L 3,395'. Rig up cementing equipm reulate clean. RD cement equipm acker and 3 1/2 work string and TI ith +/- 2300 bbls,25# fresh water of orkstring. TIH with 2 3/8 production SEE ATTA CONDITION	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do oit, collars, and work string. Laterolog Gamma Ray). Rig ment and pump +/- 50 sx of of nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV A true and correct. Name (<i>Printed</i>)	AL Typed AL Typed AL CCEPTED FOR UP Title Pre CRISTING AND CON AL COR FEDERAL OF	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED	a once has e unit and o of liner ts and PU interval d 3 1/2
testing has been completed. Final determined that the site is ready for MIRU workover service rig. TOOH wivel. Drill out float collar, shoe jo birculate bottoms up. TOOH with the hoto Density, Gamma Ray, Dual Lt 3,395'. Rig up cementing equipm roulate clean. RD cement equipm acker and 3 1/2 work string and The the the transmission of the the the transmission of the the transmission of tr	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig ment and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV/ A true and correct. Name (Printed, THIS SPACE F	AL CCEPTED for I Typed) AL CCEPTED for I Typed	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ESIA PROVED B 2 5 2013	a once has e unit and of liner ts and PU i interval d 3 1/2
AlRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Dirculate bottoms up. TOOH with t hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and Th ith +/- 2300 bbls,25# fresh water g vorkstring. TIH with 2 3/8 production SEE ATTA CONDITIC	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do bit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV A true and correct. Name (Printed) THIS SPACE F	AL CCEPTED FOR THE INTERIOR OF THE INTERIOR O	3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail ence e 3,950'-4,160' (e als 15% HCL acid coated sand. Rig ds. Load and tes CACCOIC	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ESIA PROVED 8 2 5 2013 ate Manne	a once has e unit and o of liner ts and PU interval d 3 1/2
AlRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Dirculate bottoms up. TOOH with the hoto Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and The rith +/- 2300 bbls,25# fresh water of rorkstring. TIH with 2 3/8 production SEE ATTA CONDITIC	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig do oit, collars, and work string. aterolog Gamma Ray). Rig nent and pump +/- 50 sx of o nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV/ A true and correct. Name (Printed, THIS SPACE F d. Approval of this notice does n title to those rights in the subject thereon	tion tubing. Pick up 4 by reverse unit. Rig u Rig up wire line and ru down wireline. Pick u lass C cement with 2% eline and perforate zon d Acidize with 2000 ga sand, 50,000# of resin TIH with pump and ro AL CCEPTED for I NMOCD Title Pre Date 12 OR FEDERAL OF National Content Date 12	all contents including 3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e alls 15% HCL acid coated sand. Rig ds. Load and tes Coated sand. Rig ds. Load san	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar vith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ES!A PROVED B 2 5 2013 ate Management LAND MANAGEMENT	a once has e unit and o of liner ts and PU interval d 3 1/2
AlRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Dirculate bottoms up. TOOH with t Photo Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipm acker and 3 1/2 work string and TH ith +/- 2300 bbls,25# fresh water g vorkstring. TIH with 2 3/8 production SEE ATTA CONDITIC	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of the nent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR NS OF APPROV A true and correct. Name (Printed) THIS SPACE F d. Approval of this notice does to title to those rights in the subject thereon.	AL (Typed) AL (Typed) AL (Typed) AL (Type for any person known (Type and performed and perfo	all bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail ence e 3,950'-4,160' (e als 15% HCL acid coated sand. Rig ds. Load and tes coated sand. Rig ds. Load and tes coated sa	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar ith +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 MMOCD ART Operating Officer	A Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 113 ES!A PROVED B 2.5 2013 ate MARMAGEMENT BAD FIELD OFFICE OF Apple 1 build State	a once has e unit and o of liner ts and PU interval d 3 1/2
All Ricks All Ricks	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV/ A true and correct. Name (<i>Printed</i>) THIS SPACE F d. Approval of this notice does a title to those rights in the subject thereon. U.S.C. Section 1212, make it a d esentations as to any matter with	AL CCEPTED FOR FEDERAL OF Title for any person knowin its jurisdiction.	all bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e alls 15% HCL acid coated sand. Rig ds. Load and tes Coated sand. Rig ds. Load sand. Rig ds	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ESIA PROVED B 2.5 2013 ate MAN MANAGEMENT BAD FIELD OFFICE or agency of the United State	a once has e unit an i Neutro o of liner ts and PU i interval d 3 1/2
All Ricks All Ricks	Abandonment Notices must be or final inspection.) with pump, rods, and product int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR NS OF APPROV A true and correct. Name (Printed) THIS SPACE F d. Approval of this notice does a title to those rights in the subject thereon. U.S.C. Section 1212, make it a d esentations as to any matter with	AL (Typed) AL Title Pre- (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) AL (Typed) (all bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail ence e 3,950'-4,160' (e alls 15% HCL acid coated sand. Rig ds. Load and tes Coated s	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2 7 20 MMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ESIA PROVED B 2.5 2013 ate MARAMENT BAD FIELD OFFICE or agency of the United State	a once has e unit an l Neutro o of liner ts and PU interval d 3 1/2
AlRU workover service rig. TOOH wivel. Drill out float collar, shoe jo Sirculate bottoms up. TOOH with the Photo Density, Gamma Ray, Dual L t 3,395'. Rig up cementing equipmin acker and 3 1/2 work string and The with +/- 2300 bbls,25# fresh water of corkstring. TIH with 2 3/8 production SEE ATTA CONDITIC 4. Thereby certify that the foregoing is the vavid Ricks Signature pproved by multions of approval, if any, are attached at the applicant holds legal or equitable I title the applicant to conduct operations the 18 U.S.C. Section 1001 and Title 43 stitious or fraudulent statements or repro- nstructions on page 2)	Abandonment Notices must be or final inspection.) with pump, rods, and produc int, and casing shoe. Rig de oit, collars, and work string. Laterolog Gamma Ray). Rig nent and pump +/- 50 sx of of hent and TOOH. Rig up wire H. Set PKR at +/- 3,350' ar gel system, 150,000# 16/30 on tubing and BHA. RU and CHED FOR INS OF APPROV/ A true and correct. Name (<i>Printed</i>) THIS SPACE F d. Approval of this notice does a title to those rights in the subject thereon. U.S.C. Section 1212, make it a d esentations as to any matter with	AL Typed) AL Title Pre- Title Pre- Title Pre- Title Pre- Title Pre- Date 12 OR FEDERAL OF Title Pre- Date 12 Official of any person knowing in its jurisdiction.	all contents including 3/4 bit, collars, ar up air foam unit ar n open hole logs. p the TIH to TD w 6 CACL in tail end e 3,950'-4,160' (e ils 15% HCL acid coated sand. Rig ds. Load and tes Coated sand. Rig ds. Load and tes ds. Load an	letion in a new interval, a reclamation, have been of ind work string. TIH an ind deepen well 325' to (Borehole Profile Gar <i>i</i> th +/- 950' of 4", 9.11 d stage. Drop ball and xact perf interval TBD . Swab Test. MIRU fr g down frac equipment t to 500#. Return well RECEIV FEB 2.7 20 NMOCD ART Operating Officer	a Form 3160-4 must be file completed and the operator d tag up. Rig up reverse projected TD of 4,245'. mma Ray, Compensated #, J, flush joint liner. Top close sleave - open port from logs). RD wireline. ac equipment. Frac perf t. TOOH with packer and to production. ED 13 ESIA PROVED B 2.5 2013 ate MACHINE ELAND MANAGEMENT BAD FIELD OFFICE or agency of the United State	a once has e unit an l Neutro o of liner ts and PU f interval d 3 1/2

Lea "C" Fed #9 Deeping Program

1. Estimated Tops of Important Geological Markers

Grayburg/San Andres +/- 3700'

2. Estimated Depths of Anticipated Fresh Water, Oil & Gas

Seven Rivers	+/- 2300'
Grayburg/San Andres	+/- 3700'
Lovington	+/- 3780'
Jackson	+/- 3800′

This deepening originates in the San Andress and will finish at the base of the Jackson. Both the San Andres, Lovington and the Jackson are oil and gas bearing intervals.

3. Casing Program

Hole Size	Interval	OD Casing	Weight	Grade**	Jt./Condition	Burst/collapse/tension***
4-3/4"	3269' - 3950'	4"	9.5#	J-55	ULT-FJ/New	4352/4088/77,040
5-3/4"	3950 - 4245	4"	9.5#	J-55	ULT-FJ/New	4352/4088/77,040

**Anticipating J-55, could be L-80 or P-110 depending on availability. (Exact grade is unknown at time of requesting permit.)

***Burst/collapse/tension are 80% of published API values.

4. Casing/Cementing Program

4" Liner: Class C, 90 Sacks, yield 1 37 Ft^3/Sx. 4" liner will cover all existing perfs as well as 100' overlap above top existing perforation. Capstone Natural Resources LLC request a variance to the Liner Top Fluid Entry or Pressure Test. As per Onshore Order No. 2 Sect III: Requirements, Part B. Casing and Cementing Requirements, subpart b. "No test shall be required for liners that do not incorporate or need a seal mechanism" Capstone Natural Resources LLC believes we meet the criteria to not be required testing the liner top because there is no need for a seal mechanism.

5. Minimum Specifications for Pressure Control

The BOP equipment will be a 3000 psi double ram type manually operated preventer. This equipment will be nippled up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. There is no choke or kill manifold. The BOP is tested to 1000 psi prior to drilling new formation. Access to the annulus will be through the valves on the 5-1/2" casing head.

6. Types and Characteristics of the Proposed Mud System

This well will be drilled from end to the existing 5-1/2" casing to TD with 2% KCL. A closed loop system will be used during the workover process and all liquids, drilling fluids and cuttings will be hauled off via CRO (Controlled Recovery Incorporated Permit R-9166).

7 Auxiliary Well Control and Monitoring Equipment

A. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

8. Logging, Testing and Coring Program

- A. The electric logging program will consist of GR, Dual Laterolog, PhotoDensity, Comp/Neutron and will be run from TD to 5.5" production casing shoe. Prior to drilling out a cased hole Pulse Neutron log will be run across existing perforations and other possible behind pipe zones; From 3920 to +/- 1900'.
- B. No drill stem tests.
- C. No conventional coring anticipated.
- D. Further testing procedures (if any) will be determined after the 4" liner has been cemented at TD, based on drill shows and log evaluation.

9. Abnormal Conditions, Pressure, Temperatures and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottomhole temperature at TD is 90 degrees and the estimated maximum bottomhole pressure is 1750 psig. The drilling starts in the San Andres and ends in the Jackson, the formation is expected to have low perm; less than 1 md.

10. Anticipated Starting Date and Duration of Operations

There will be no road or location work required as this is an existing well location. However if for some reason any surface disturbance beyond the existing pad is needed, the BLM will be contacted prior to disturbing that surface area. Once commenced, drilling operations should be finished in approximately 15 days. Work is expected to commence within a few weeks of BLM approval.

11. Centralizer Program

No centralizers will be run.

12. Summary Drilling and Completion Program

Deepening Procedure

- A. Prepare and hook up functioning H2S monitoring equipment for duration of workover.
- B. MIRU Workover Service Unit. POOH w/ current production equipment. (Test BOP to 1000 psi)
- C. Pick up 5.5" packer & Plug RIH on 2-3/8" workstring to 3294' (Plug must be within 50 to
- 100 feet of the top perf @ 3369.) Set packer above plug & test plug to minimum of 500 psi. Test the 5.5" casing to a minimum of 500 psi for 30 min. Make sure MIT is documented on chart recorder & Paul R. Swartz <u>paul</u> <u>swartz@blm.gov</u> (phone 575-200-7902 or 575-361-

2822) is contacted at least 24 hours before MIT test is performed. Make a note in the well report as to the contact method, time & date the BLM was contacted. Make sure a subsequent Sundry Form 3160-5 is filed with a copy of the chart to the BLM noting the BLM witness.

- D. Release Packer and Plug and POOH. MIRU wire line and run pulse neutron log to get water saturations behind 5.5" casing. Run log from 3920 to top of Yates (+/- 1900'). RDMO wireline.
- E. Pick Up 4-3/4" bit & scraper. RIH to PBTD @ 3920' with 2-3/8" workstring. POOH, remove scraper RIH & drill out to original TD @ 3950 then continue until you start getting formation in your returns. POOH w/ Bit.
- F. Pick up 4-3/4" Bi-centered bit. RIH to 3950'. Drill out 5-3/4" hole below 5.5" casing to new TD of 4245'. POOH with Bi-centered bit.
- G. MIRU wireline. Run open hole logs from 4245 to 3950. RDMO wireline.
- H. MIRU casing crew. RIH w/special float valve, on/off –circulating tool, 976' of 4" 9.5# UFJ casing liner & entry guide on top. (Need 100' overlap of Liner & top perf @ 3369')
- Set Liner in slips. RIH w/ expansion joint & 2-3/8" tubing. Tag left hand treads on circulating tool. Screw into tool. Pick up 4" UFJ out of slips and continue into hole until liner rest on TD @ 4245.
- MIRU cement company. Cement Liner in place w/ 90 sacks of cmt. Drop Ball & activate circulating tool. Circulate 2 annular volumes. Get off Liner by torqueing tubing to the right.
 POOH w/ tubing.
- K. RIH w/ 4-3/4'' Bit and scraper, Tag Liner top @ 3269'. POOH w/ Bit and scraper. RIH with 3.75" bit and scraper and Tag top of circulation tool in BTM of Liner. POOH.
- L. MIRU Cased hole equipment. Run CBL across 4" Liner. Perforate Jackson Zone as per OHL (3950-4160 Estimated) & Perforate Grayburg/San Andres as per Pulse Neutron log (4spf 60 degrees). RDMO Wireline. (Actual perfs to be determined from logs.)
- M. RIH with 3-1/2" X 5-1/2" Treating Packer on 3.5" Ultra Flush Joint N-80 rental workstring. (This workstring might take a while to set up and track down. Will frac down conventional 3.5" 9.3# L-80 worstring if the UFJ is a problem.) Tag top of liner & set Packer@ +/- 3269. RDMO WSU.
- N. MIRU Frac Crew, Frac well as designed.
- O. Flow back well until dead. MIRU WSU. Release packer and POOH laying down workstring.
- P. RIH with rental 2-7/8" PC Pump on 2-3/8" production string. (Rental PC Pump to have Drive and POC.) Could substitute Rental PC pump with Rod pump if the well does not appear to make a lot of fluid. RDMO WSU.
- Q. Test well with rental equipment until decision is made to purchase or pull rental and produce via rod pump.

Conditions of Approval

Capstone Natural Resources, LLC. Lea C 09 API 30-015-20648 February 25, 2013

Deeping procedure:

- 1. Surface disturbance beyond the existing pad must have prior approval.
- 2. Prior to conducting work, an MIT must be done and results submitted to the BLM for approval to start work. The following are the MIT criteria:
 - a. Operator shall set a retrievable CIBP or similar mechanism 50-100 ft above the top most perforations in preparation for the MIT.
 - b. The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
 - c. Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
 - d. At least 24 hours before the test: In Eddy County email Paul R. Swartz paul_swartz@blm.gov, (phone 575-200-7902). If there is no response phone 575-361-2822. In Lea County email Andy Cortez andy cortez@blm.gov, (phone 575-393-3612 or 575-631-5801). Note the contact notification method, time, & date in your subsequent report.
 - e. Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
 - f. Submit the original subsequent sundry with three copies to BLM Carlsbad.

If MIT test fails, operator shall submit sundry for a remediation procedure.

- 3. Surface disturbance beyond the existing pad must have prior approval.
- 4. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
- 5. Functional H_2S monitoring equipment shall be on location.
- 6. 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 7. BOP to be tested to 1000 psi based on expected BHP
- 8. Variance requested for not testing seal per Onshore Order NO.2 Section III b. is approved.
- 9. The BLM PET witness is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test (WOC time of 4-8 hours recommended) as requested by BLM PET witness.
- 10. File a subsequent sundry Form 3160-5 within 30 days of the plug back and acid treatment. Include an updated wellbore diagram.
- 11. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.

JAM 022513