			00	D Artesia						
(Au	rm 3160-5 ugust 2007)		UNITED STATES EPARTMENT OF THE INTERIOR UNDEAL AND A CEMUENT							
		BUREAU OF LAND MANA	AGEMENT	F	5. Lease Serial No.					
		RY NOTICES AND REPC e this form for proposals to		L	NMNM0560353					
	abandoneo	l well. Use form 3160-3 (AP	'D) for such proposals.		 If Indian, Allottee of 	or Tribe Name				
	SUBMIT IN	TRIPLICATE - Other instru	ctions on reverse side.		7. If Unit or CA/Agre NMNM126412>	ement, Name and/or No. (
1.	. Type of Well ☑ Oil Well □ Gas Well [1 Other			 Well Name and No. BENSON DELAV 					
2.	Name of Operator CHI OPERATING INCOR	Contact:	PAM CORBETT hienergyinc.com	·····	9. API Well No. 30-015-37333-0)0-S1				
3:	a. Address		3b. Phone No. (include area code	e) _	10. Field and Pool, or					
	MIDLAND, TX 79702		Ph: 432-685-5001 Fx: 432-687-2662	1	BENSON-DELA	WARE				
4.	. Location of Well (Footage, S	ec., T., R., M., or Survey Description	n)		11. County or Parish,	and State				
	Sec 12 T19S R30E NWN	W 480FNL 370FWL			EDDY COUNT	Y, NM				
	12. CHECK A	APPROPRIATE BOX(ES) TO	O INDICATE NATURE OF	NOTICE, REI	PORT, OR OTHE	R DATA				
	TYPE OF SUBMISSION		- ТҮРЕ С	OF ACTION						
	Notice of Intent	Acidize	Deepen	Productio	n (Start/Resume)	🗖 Water Shut-Off				
	—	Alter Casing	Fracture Treat	🗖 Reclamat	ion	Well Integrity				
	Subsequent Report	Casing Repair	New Construction	🗖 Recomple	ete	Other				
	Final Abandonment Notic		Plug and Abandon	Temporal	-					
_		Convert to Injection	Plug Back	🔋 🔲 Water Di	sposal					
	following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.) CHI Operating, Inc. intends to convert the Benson Delaware Unit #14 to an injection well.									
	CHI Operating, Inc. intene Procedure is attached.		aware Onit #14 to an injection	i well.	r-vica ⊪vica	pted for record NMOCD				
		NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015		IED FOR						
		NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015	SEE ATTACH CONDITIONS	IED FOR S of App	Roval					
<u> </u>	Procedure is attached.	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DIG 19 2015 Ding is true and COTECT Electronic Submission # For CHI OPERA	10N SEE ATTACH CONDITIONS	ED FOR S OF APP	ROVAL System					
1	Procedure is attached. 4. I hereby certify that the forego	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DID is true and contect Electronic Submission & For CHI OPERA Committed to AFMSS for pro	TION SEE ATTACH CONDITIONS #281223 verified by the BLM We TING INCORPORATED, sent to occessing by CATHY QUEEN on	IED FOR S OF APP ell Information i o the Carlsbad 1 06/22/2015 (15	ROVAL System CQ0398SE)					
<u> </u>	Procedure is attached. 4. I hereby certify that the forego	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DIG 19 2015 Ding is true and COTECT Electronic Submission # For CHI OPERA	TION SEE ATTACH CONDITIONS #281223 verified by the BLM We TING INCORPORATED, sent to occessing by CATHY QUEEN on	ED FOR S OF APP	ROVAL System CQ0398SE)					
1,	Procedure is attached. 4. Thereby certify that the foregon Name (Printed/Typed) CLIF	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DID is true and contect Electronic Submission & For CHI OPERA Committed to AFMSS for pro	TION SEE ATTACH CONDITIONS #281223 verified by the BLM We TING INCORPORATED, sent to occessing by CATHY QUEEN on	ED FOR S OF APP	ROVAL System CQ0398SE)					
] (Procedure is attached. 4. Thereby certify that the foregon Name (Printed/Typed) CLIF	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT DI	200N SEE ATTACH CONDITIONS 2281223 verified by the BLM We TING INCORPORATED, sent to occessing by CATHY QUEEN on Title FIELD	ED FOR SOF APP of the Carlsbad of 22/2015 (15 SUPERVISOF 2014	ROVAL System CQ0398SE)					
	Procedure is attached. 4. I hereby certify that the foregoneric of t	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DIT 19 2	TING INCORPORATED, sent to coessing by CATHY QUEEN on Title FIELD Date 11/24/	ED FOR SOF APP	ROVAL System CQ0398SE) R					
	Procedure is attached. 4. I hereby certify that the forego Name (Printed/Typed) CLIF Signature (Electr Signature (Electr Approved By_CHARLES_NIM nditions of approval, if any, are at	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 FOR CHIOPERA Committed to AFMSS for pro- MANN ONIC Submission) THIS SPACE FOR MER Lached. Approval of this notice doe	TING INCORPORATED, sent to Date 11/24/	ED FOR SOF APP of the Carlsbad of 22/2015 (15 SUPERVISOF 2014	ROVAL System CQ0398SE) R					
A A Cor	Procedure is attached. 4. I hereby certify that the forego Name (Printed/Typed) CLIF Signature (Electr Signature (Electr Approved By_CHARLES_NIM nditions of approval, if any, are at	NM OIL CONSERVAT ARTESIA DISTRICT OCT 19 2015 DCT 19 2015 DISTRICT OCT 19 2015 DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 DISTRICT DISTRICT DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 DISTRICT DISTRICT OCT 19 2015 FOR CHIOPERA COMMISSION MANN ONIC Submission) THIS SPACE FOR MER tached. Approval of this notice does or equitable title to those rights in th	TING INCORPORATED, sent to Date 11/24/	ED FOR SOF APP Of the Carlsbad OG/22/2015 (15 SUPERVISOF 2014 OFFICE US	ROVAL System CQ0398SE) R					

** BLM REVISED **

Benson Delaware Unit #14 API # 30-015-37333 Eddy Co., NM

Convert To Water Injection

DIRECTIONS: From intersection of Hwy 360 & Co. Rd. 222, take Co. Rd 222 approx. 12 miles. Turn left/west on Co.Rd 250/blacktop. Go approx 2.5 miles, go through cattle guard in backtop. Turn left (south) on lease rd. Go approx. .8 mile, turn right just past injection station. Go approx .2 mile, turn left at fork for appprox. .6 mile. Turn right approx .2 mile, left approx .2 mile, right approx .2 mile, left approx .4 mile to Munchkin Fed #4 location, continue straight (south) to location.

History/Pertinent Info

Elevation:	GL: 3469'		KB: 3481'
Completed: 5/	26/10		
Tbg Head:			
Casing	8 5/8" 5 ½"	32 # J-55 1 5.5 # J - 55	set @ 2045' Circ cement set @ 5230' Circ cement
TD:	5256'		

PBTD: 5118'

DV Tool: 3668'

Perfs: 4510'-4534' 4762'-4767', 4779'-4784', 4790'-4800', 4818'-4822', 4833'-4876', 4891'-4904' 4974'-4978', 5022'-5027', 5044'-5046', 5054'-5058', 5070'-5075'

Remarks:

Benson Delaware Unit #14 API # 30-015-37333 Eddy Co., NM

Convert To Water Injection

Project Engineer: Cord Painter

Cell: (325) 792-7255

Recommended Procedure

Note: Deliver 20 Jts 2 7/8" tbg to location to supplement prod tbg for cleanout.

- 1. MIRU pulling unit. POOH laying down with rods and pump. ND WH. NU BOP.
- 2. PU tbg as needed and RIH with tbg to tag fill (PBTD is 5118', EOT is ~4514', Btm Pf is 5,075').
- 3. Estimate and record fill depth.
- 4. Determine if cleanout is necessary.

If cleanout IS necessary:

- 5. POOH standing back with tbg, laying down pumping BHA.
- PU & RIH with sand bailer on tbg. CO well to PBTD (5118'). POOH laying down sand bailer and tbg.

If cleanout IS NOT necessary:

- 7. POOH laying down tbg and pumping BHA.
- 8. RIH w/ 5 1/2" x 2 7/8" Arrowset 1X Big Bore packer on 2-7/8" 6.5# J-55 IPC tubing setting packer +/- 100' above top perf. Load backside w/ packer fluid.
- Pressure test backside as per BLM requirements.
- 10. Connect injection system to well. Begin water injection.

Benson Delaware Unit #14 API # 30-015-37333 Eddy Co., NM

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Convert To Water Injection

MECHANICAL DATA

Type Tubular	e o	<u>e</u> .e	Drift	Wt. #/ft	Grd	Conn.	Depth ft	Burst psi	Tensile Mbs.	10C	Cap. bbl/Ft
Surface Casing											
Intermediate Casing	8 5/8	7.921	7.796	32	J-55	STC	2045	3930	372	Surf	
Production Casing	5 1/2	4.95	4 825	15.5	J-55	LTC	5230	4810	247.0	Surí	.0238
Production Tubing	2 7/8"	2.441	2.347	6.5	J-55	8 RD EUE		7260	99.66		.00579
						-					
I Ini Tba	2 7/8" IPC								_		
											-
2 7/8" x 5 1/2" annulus			•								
* - Assumed	ned										

TUBING HEAD: 11" 5k X 7 1/16" 5k

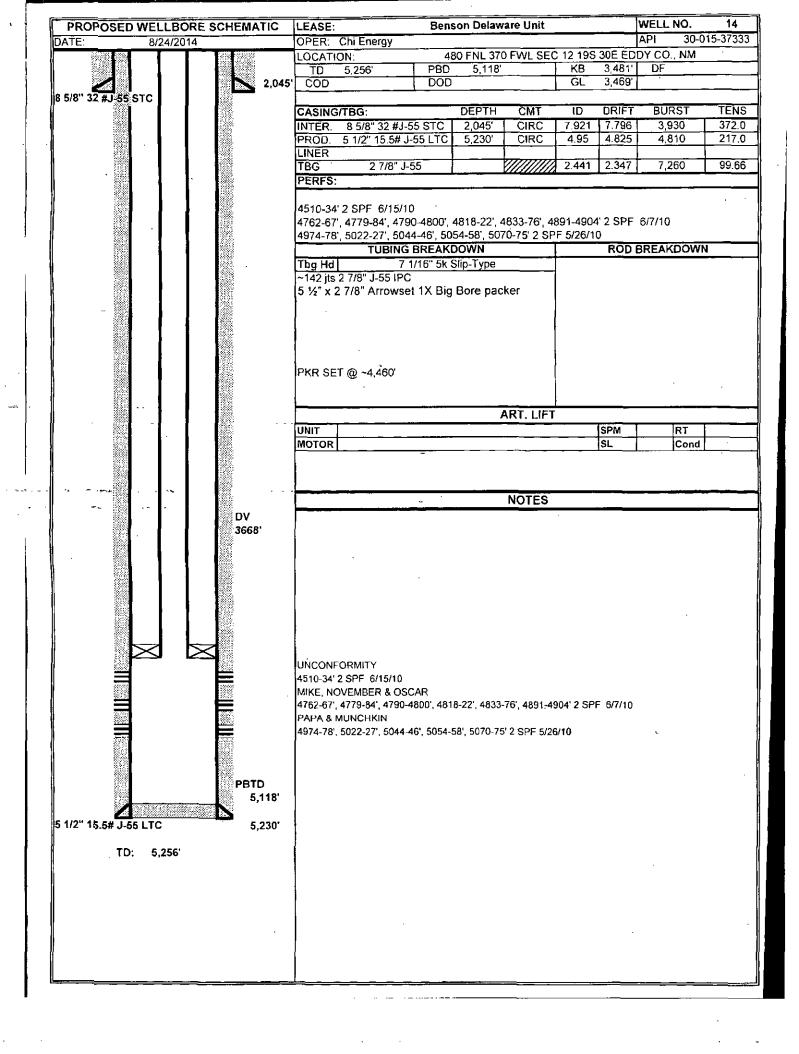
GL = 3469' KB = 3481' PBTD = 5118'

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Job 100 Job	CURRENT	T WELLB	ORE SC	HEMATIC	LEASE:		Ben	son Delaw	vare Unit			WELL NO.	14
5/8" 32.8-J-85 STC 2.0465 TO 5.266" PED 5.118" KB 3.481 DF 3.482 5/8" 32.8-J-85 STC COR DOO GL 2.045 GL 2.046 GL 2.046 GL GL GL GL GL GL GL GL GL GL <td>DATE:</td> <td>6/22/2</td> <td>2010</td> <td></td> <td>OPER: C</td> <td>hi Energy</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	DATE:	6/22/2	2010		OPER: C	hi Energy							
5/8" 32.4.1.85, STC COD DDD GL 3.469 CASING/TBG: DDPTH CMT DD PORT BURST TER SR0 5.1/2" 15.58 J.2435 STC J.2441 2.347 TER BROD 5.1/2" 15.58 J.245 STC J.2441 2.347 TER BROD 5.1/2" 15.58 J.255 J.2441 J.241 J.247 TER BROD 5.1/2" 15.58 J.55 J.2045 J.2441 J.241 J.347 TER BROD 7.1/16" 5.81 J.55 J.210 J.2441 J.247 J.258 J.210 J.211 J.210					LOCATIO	N:	4	80 FNL 37	0 FWL SEC	C 12 19S	30E ED	DY CO., NM	
5/8" 32.4.1.85, STC COD DDD GL 3.469 CASING/TBG: DDPTH CMT DD PORT BURST TER SR0 5.1/2" 15.58 J.2435 STC J.2441 2.347 TER BROD 5.1/2" 15.58 J.245 STC J.2441 2.347 TER BROD 5.1/2" 15.58 J.255 J.2441 J.241 J.247 TER BROD 5.1/2" 15.58 J.55 J.2045 J.2441 J.241 J.347 TER BROD 7.1/16" 5.81 J.55 J.210 J.2441 J.247 J.258 J.210 J.211 J.210													
5/6* 32 4.1 54 51C DEPTH (NTER) DEPTH (SUP) CASING/TBG: (2.49) DEPTH (2.43) DEPTH (2.44) DEPTH (2.44) <thdepth (2.44) <thdepth (2.44) <thdepth< td=""><td></td><td></td><td></td><td>2.045</td><td></td><td></td><td></td><td></td><td></td><td>GL</td><td>3,469'</td><td><u> </u></td><td>_</td></thdepth<></thdepth </thdepth 				2.045						GL	3,469'	<u> </u>	_
CASING/FIG: DEPTH CMT CD (NET) EURST TER PROD_51/2*15.59.J55.17C 5.230 CIRC 4.95 4.825 4.810 217 PROD_51/2*15.59.J55.17C 5.230 CIRC 4.95 4.825 4.810 217 PROD_51/2*15.59.J55.17C 5.230 CIRC 4.95 4.825 4.810 217 PROD_51/2*15.59.J55.17C 5.230 CIRC 4.95 4.823 4.810 217 PROD_51/2*15.59.J55.17C 5.230 CIRC 4.95 4.914 2.947 7.260 99.4 PERFS: TOTATTS & 477.96 86.507.072 SPF 67710 477.475 99.772 11.41* X.279 FW Wrld PRL 120.175.2.775 11.41* X.279 FW Wrld PRL 120.175.2.775 11.14* X.16 COS 11.72 11.74* STOR STUR CODS 11.72 11.75* SR 10.76* STL RODS 11.12* X1 12* X1 6* X16* COMP AS OF 672210 10.76* STL RODS 11.12* X1 6* X16* COMP AS OF 672210 10.	9 5/8" 32 # 1-56	STC										!	
INTER 5/87 32 24/55 TC 2/45 CIRC 7/26 3/30 3/27 INPER 5/87 15.59 J-55 LTC 5/20 CIRC 4/95 4/825 4/810 2/17 INPER 7/87 15.59 J-55 LTC 5/20 CIRC 4/95 4/810 2/17 INPER 7/87 J-355 W//// 200 4/95 4/82 4/810 2/17 INPER 7/87 J-355 W//// 200 4/95 4/810 2/341 <t< td=""><td></td><td></td><td></td><td></td><td>CARINGU</td><td>DC.</td><td></td><td>DEDTU</td><td>CNAT</td><td></td><td></td><td>BUDGT</td><td>TENS</td></t<>					CARINGU	DC.		DEDTU	CNAT			BUDGT	TENS
PROD. 5 1/2" 15.5# J-55 LTC CIRC 4.95 4.825 4.810 217 TBG 2.7/8" J-55													
UNCONFORMITY H2 27.67 3.55 UNCONFORMITY 4510-347 27.67 3.57 77.80 99.4 4510-347 27.67 3.55 UNCONFORMITY 457.67 4.810-4.46 5070-75 2.59F 677.010 4974-78 5070-75 2.59F 572.6710 10475.25 7.776 11.14" X.26" PR W144 PRL 22.46.45.X 76" 7.776"													
TBG 27.87 J.55 JJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ	55040 1452					5 1/2"_15 <u>.5</u> # <u>J-</u>	55 LTC	5,230	CIRC	4.95	4.825	4,810	217.0
PERFS: DDDDD 4510-32 2 SPF 6/15/10 455-57, 4779-84, 470-4800, 4819-22, 4833-76', 4891-4904 2 SPF 6/7/10 4974-78', 5022-27', 5044-46', 5024-55', 5070-75' 2 SPF 5/26/10 TUBING BREAKDOWN ROD BREAKDOWN T0 Fig.Hall 7 1/16' 50 SIIp-Type 11/4" X 25 PF WI14 PRL 22,4,68,X 7/8' SUBS 47,78' STL RODS 8,075 2 7/8' TAC 8,075 2 7/8' 130.015 2 7/8' TAC 8,075 2 7/8' TAC 8,075 2 7/8' TAC 8,075 2 7/8' TAC 8,078 2 7/8' TAC 8,078 2 7/8' TAC 8,078 2 7/8' TAC 8,078 2 7/8' TAC 9,078 STL RODS 8,158' KBARS 1172' X 12' X 16' RXBC PUMP 1172'' X 12' CA As 50 F 6/2/10 PUMP SET @-4477' ART, LIFT UNT		Ż		<u>.</u>					ļ. <u> </u>	L	I	<u> </u>	
4510-34 2 SPF 6/15/10 4750-367, 4779-44, 4790-4800, 4818-27, 4833-76, 4891-4904 2 SPF 6/7/10 4974-78, 5024-29, 5024-89, 5024-29, 5024-59, 5024-59, 5024/10 TUBING BREAKDOWN TURY BREAKDOWN TUBING BREAKDOWN TURY SPECIAL TUBING BREAKDOWN TURY SPECIAL TAC ROD BREAKDOWN TAC ROD SEARCHOWN TAC ROD SEARCHOWN TAC Part Hol 7 1/16" 5K SUp-Type TAC Part Hol 7 1/16" 5K SUp-Type TAC Part Hol 7 1/16" SK SUP-Type TAC Part Hol Part Read SK TR SUP MA Part Read SK TR SUP Part Read SK TR SUP MA Pump Set @-4477 ART. LLFT UNIT Sentry 320 F 120 Sentry 320 F 120 DV Sentry 320 F 120					TBG	2 7/8" J-5	55			2.441	2.347	7,260	99.66
4510-34 2 SPF 6/15/10 4750-367, 4779-44, 4790-4800, 4818-27, 4833-76, 4891-4904 2 SPF 6/7/10 4974-78, 5024-29, 5024-89, 5024-29, 5024-59, 5024-59, 5024/10 TUBING BREAKDOWN TURY BREAKDOWN TUBING BREAKDOWN TURY SPECIAL TUBING BREAKDOWN TURY SPECIAL TAC ROD BREAKDOWN TAC ROD SEARCHOWN TAC ROD SEARCHOWN TAC Part Hol 7 1/16" 5K SUp-Type TAC Part Hol 7 1/16" 5K SUp-Type TAC Part Hol 7 1/16" SK SUP-Type TAC Part Hol Part Read SK TR SUP MA Part Read SK TR SUP Part Read SK TR SUP MA Pump Set @-4477 ART. LLFT UNIT Sentry 320 F 120 Sentry 320 F 120 DV Sentry 320 F 120					PERFS:								
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497.4.78; 5022-27; 504.46; 5054-58; 5070-75 2 SPF 5/26/10 TUBING BREAKDOWN TOBING BREAKDOWN TOPS 27/8° TOBING BREAKDOWN TOBING BREAKDOWN <		8 2						1010 221	1000 7C' 1	001 4004	n o ede	6/7/10	
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Image: State of the s					4974-78				<u>70-75 2 5P</u>	- 5/20/ IV			
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TAC 47.7/8*STL RODS 8 JTS 27/8* 121-3/4*STL RODS 9 JT 27 27/8* 121-3/4*STL RODS 9 JT 27 7/8* 11/17 SUB 9 JT 27 7/8* 11/17 SUB 1 JT 2 7/8* 11/17 SUB MA 11/17*X 12*GRARS 1 JT 2 7/8* 11/17*X 12*GRARS MA 11/2*X 12*GRARS MA 11/2*CRARS MA 11/2*GRARS MA 11/2*GRARS MA 11/2*GRARS MA 11/2*GRARS MA 11/2*GRARS MA 100 rpm MA 12/2 <td></td> <td>ŝ.</td> <td>1 1</td> <td></td> <td></td> <td></td> <td>/<u>16" 5k (</u></td> <td>Slip-Type</td> <td></td> <td>1 1/4" X</td> <td>26' PR 1</td> <td>W/14' PRL</td> <td></td>		ŝ.	1 1				/ <u>16" 5k (</u>	Slip-Type		1 1/4" X	26' PR 1	W/14' PRL	
B JTS 2.7/6" 121-3/4" STL RODS SN 10-7/8" STL RODS 4 PS 8 - 15/8" KBARS 1 JT 2 7/8" 11 LIFT SUB NA 2 1/22X1 1/2" X16" RXBC PUMP 1 JZ 2 X1 1/2" X16" RXBC PUMP 11/2" X12" CA AS OF 6/22/10 PUMP SET @-4477' ART. LIFT ART. LIFT UNIT Senity 3200 Senity 3200 SPM MOTOR Torque Master 25 hp 324T 1100 rpm NOTES Chem: ?? Injected into FL DV 3668" UNCONFORMITY 4510-34" 2 SPF 6/15/10 MKE, NOVEMBER & OSCAR 4752-67" AF79-84" - 479-64" 479-6400", 418-22", 4833-76", 4891-4904" 2 SPF 6/7/10 PAPA & MUNCHNIN 4974-78", 5022-27", 5044-46", 5054-58", 5070-75" 2 SPF 5/26/10		3			130 JTS 2	7/8"				2,2,4,6,8	3 X 7/8" :	SUBS	
B JTS 2.7/6" 121-3/4" STL RODS SN 10-7/8" STL RODS 4 PS 8 - 15/8" KBARS 1 JT 2 7/8" 11 LIFT SUB NA 2 1/22X1 1/2" X16" RXBC PUMP 1 JZ 2 X1 1/2" X16" RXBC PUMP 11/2" X12" CA AS OF 6/22/10 PUMP SET @-4477' ART. LIFT ART. LIFT UNIT Senity 3200 Senity 3200 SPM MOTOR Torque Master 25 hp 324T 1100 rpm NOTES Chem: ?? Injected into FL DV 3668" UNCONFORMITY 4510-34" 2 SPF 6/15/10 MKE, NOVEMBER & OSCAR 4752-67" AF79-84" - 479-64" 479-6400", 418-22", 4833-76", 4891-4904" 2 SPF 6/7/10 PAPA & MUNCHNIN 4974-78", 5022-27", 5044-46", 5054-58", 5070-75" 2 SPF 5/26/10					TAC					47 - 7/8"	STL RO	DS	
SN 10-7/8* STL RODS 4* PS 5.15/6* KBARS 1.17 2 7/8* 1.17 2 7/8* MA 2.12*X1 1/2*X16* RXBC PUMP 1.172*X12*GA ART. LIFT UNIT Sentry 3200 MOTOR Torque Master 25 hp 3241*1100 rpm MOTOR Torque Master 25 hp 3241*1100 rpm SL 120 Chem: ?? Injected into FL JOV 3668* DV 3668* DV 3668* PBTD 5,118* 5,118* 5,201* 5,201* 5,201*				222		'8"							
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Conditions of Approval

Chi Operating Incorporated Benson Delaware Unit - 14, API 3001537333 T19S-R30E, Sec 12, 480FNL & 370FWL October 12, 2015

- 1. Subject to like approval by the New Mexico Oil Conservation Division.
- 2. Before casing or a liner is added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 3. Surface disturbance beyond the existing pad shall 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. 2000 (2M) Blow Out Prevention Equipment to be used. All BOPE and workover procedures shall establish fail safe well control. Blind ram(s) and pipe ram(s) designed to close on all workstring diameters used is required equipment. A manual BOP closure system (hand wheels) shall be available for use regardless of BOP design. Function test the installed BOPE to 500 psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) shall be employed when needed for reasonable well control requirements.
- 7. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- Perform a charted casing integrity test of 1200 psig. Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 25 to 85 per cent of its full range. Verify all annular casing vents are plumbed to the surface and open during this pressure test. <u>Call BLM 575-200-7902 and arrange for a BLM witness of that</u> pressure test. Include a copy of the chart in the subsequent sundry for this workover.
- 9. Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 4410' taken with 0 psig casing pressure. The CBL may be attached to a <u>pswartz@blm.gov</u> email.
- 10. Submit a (BLM Form 3160-5 subsequent report (daily reports) via BLM's Well Information System; <u>https://www.blm.gov/wispermits/wis/SP</u> (email <u>pswartz@blm.gov</u> for instructions) describing all wellbore activity and Mechanical Integrity Test. Include the date(s) of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the

packer or between the on/off tool and packer. The setting depths and descriptions of each are to be included in the subsequent sundry. File intermediate Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.

- 11. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
- 12. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established.
- 2) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with a minimum 200 psig differential 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). Verify all annular casing vents are plumbed to surface and those valves open to the surface during this pressure test. 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.
- 3) Document the pressure test on a one hour full rotation chart recorder (calibrated within the last 6 months) registering within 25 to 85 percent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leak-off will be evaluated site specifically and may restrict injection approval.
- 4) Make arrangements 24 hours before the test for BLM to witness. In Eddy County email Paul R. Swartz <u>pswartz@blm.gov</u> or phone 575-200-7902, if there is no response, 575-361-2822. If no answer, leave a voice mail or email with the API#, workover purpose, and a call back phone number
- 5) Use of tubing internal protection, tubing on/off equipment just above the packer, a profile nipple, and an in line tubing check valve below the packer or between the on/off tool and packer is a "Best Management Practice". The setting depths and descriptions of each are to be included in the subsequent sundry.
- 6) Submit the original subsequent sundry with three copies to BLM Carlsbad.
- 7) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
 - a) Approved injection pressure compliance is required.
 - b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
 - c) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.

- 8) Unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 9) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity. A BLM inspector may request verification of a full annular fluid level at any time.
- 10) Maintain the annulus full of packer fluid at atmospheric pressure. <u>Installation of equipment</u> that will display continuous open to the air packer fluid level above the casing vent is required.
- Notify the BLM's authorized officer ("Paul R. Swartz" <<u>pswartz@blm.gov></u>, cell phone 575-200-7902) <u>before injection begins</u> to arrange for approval of the annular monitoring system.
- 12) Loss of packer fluid above five barrels per month indicates a developing problem. Notify BLM Carlsbad Field Office, Petroleum Engineering within 5 days.
- 13) A suggested format for monthly records documenting that the casing annulus is fluid filled is available from the BLM Carlsbad Field Office.
- 14) Gain of annular fluid pressure requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer ("Paul R. Swartz" <<u>pswartz@blm.gov></u>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 15) Submit a (BLM Form 3160-5 subsequent report (daily reports) via BLM's Well Information System; https://www.blm.gov/wispermits/wis/SP (email pswartz@blm.gov for operator setup instructions) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of installed equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer. The setting depths and descriptions of each are to be included in the subsequent sundry.
- 16) A request for increased wellhead pressures is to be accompanied by a step rate test. PRIOR to a Step Rate Test BLM CFO is requiring a Notice of Intent.

Access information for use of Form 3160-5 "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.