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UNITED STATES Form 3160-5 (November 1994) DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** 15-129-21699-0000

SUNDRY NOTICES AND REPORTS ON WELLS

FORM APPROVED Budget Bureau No. 1004-0135 Expires July 31, 1996

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Leano	Serial	No.					

MMO	67921
MNC	0/921

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					6. If Indian, Allottoe of Tribo Neme	
SUBMIT IN TRIPLICATE	- Other instruction	s on reverse side		7. If Unit or C	A/Agreement, Name and/or No.	
1. Type of Well Oll Gas X Other		WATER INJE	ECTION WELL	8. Woll Name SERU	and No. 13-1	
2. Name of Operator	_			JULINO	13-1	
Anadarko Petroleum Corperations				9. API Well N		
3a, Address		3b. Phone No. (include area	code)		-00-00	
701 S Taylor, Suite 400 Amarillo.	TX_79101	806.457.4600		10. Field and Pool, or Exploratory Afea		
4. Location of Well (Featage, Sec., T., R., M., ar Survey Descr						
215 FNL & 2163 FWL OF SEC. 4-33S-4	DM			STIRRUP		
	•			11. County or	Parish, State	
		, 		MORTON	XS	
12. CHECK APPROPR	IATE BOX(ES) TO	NDICATE NATURE OF NO	OTICE, REPORT.		ATA	
TYPE OF SUBMISSION		171	PE OF ACTION		* 10	
X Notice of Intent	Acidiza	Deapen	Production	(Start/Rosumo)	Weter Shut-Off	
<u> </u>	Alter Casing	Fracture Troat	Reclamatio	n	Well Integrity	
Subsequent Report	Casing Ropair	New Construction	Recomplete	3	X Other Completion	
Final Abandonment Notice	Change Plans	Plug and Abandon	Tompotatil	y Alrandon	Procedure	
Effet Varancounsoir 1-6469	Convert to Enject	ion Plug Bock	Water Disp	osal		
18. Describe Proposed of Commission Operation (clear if the proposal is to deepen directionally or recomp Amech the Bond under which the work will be not following completion of the involved operations. If toking has been completed. Final Abandonment N	Oxicoa eusti do inido du	olls, including estimated startin ubsurface locations and measu Bond No. on file with BLM? a multiple completion or res by after all requirements, incl	ng data of any pro- trod and true vertice BIA. Required soft completion in a new luding reclamation,	posed work and all depths of all sequent reports interval, a For have been con-	approximate duration thereof, perthem markers and zones, shall be filed within 30 days m \$160-4 shall be filed once protect, and the operator has	

determined that the final site is ready for final inspection.)

SEE ATTACHMENT FOR THE COMPLETION PROCEDURE.

RECEIVED AUG 1 1 2003 KCC WICHITA

14. I hereby certify that the foregoing is true and correct Name (Printed Typed) M 13 g	JOHN VIGIL, DIVISION DRILLING COORDINATOR
	Dato 7/23/2003
THIS SPACE FO	DR FEDERAL OR STATE OFFICE USE
Approved by I worked Tursh	Tield Manager Date 5/7/05
Conditions of approval, if any, are attached. Approval of this notice doe certify that the applicant holds lagal or equitable title to those rights in which would emitte the applicant to equitable appropriate the applicant to equitable approximations thereon.	of not warrant of the subject lease Amas. No Field office

Title 18 U.S.C. Section 1001, makes it a ctime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitions or fraudulent statements or representations as to any matter within its jurisdiction.



RECEIVED AUG 1 1 2003 **KCC WICHITA**

COMPLETION PROCEDURE

FOREMAN:	Kenny Parks	(M)806-595-0980	(P)620-626-9162
ļ	Steve Bartel	(M)806-595-0979	(P)620-626-1908
ENGINEER:	John Vigil	(M)806-679-8244	(O)806-457-4623

WELL NAME:	SERU 13-1	AFE#:	29948
SPOT:	215' FNL & 2163.1' FWL	TD:	5420' GL
LOCATION:	Sec. 4, T33S, R40W	PBTD;	5378' GL
COUNTY, ST.:	Morton Co. KS.	KB ELEV:	3352.1'
FIELD:	Stirrup	GL ELEV:	3341.1'
APC WI:	0.8336	KB:	11'

Objectives:

- > Verify adequate cement isolation across Morrow 'D' interval
- > Perforate Morrow 'D' and stimulate down work string.
- > Run and test injection packer and lined tubing.
- > Turn well to production dept for injection as soon as possible.

Current Status:

Wait on completion.

- > Note: Full circulation during the primary cement job.
- > Note: Top plug was bumped with treated 4% KCL.
- > Note: Plug held. Casing has been tested to 2000 psi.

Work String:		Planned Perforations:			
Size: Weight:	2 7/8" 6.5 #/ft	Morrow 'D!:	5262' – 5290' [28']	RECE	IVED
Grade: Capacity: Capacity: Capacity:(b/w 2 7/8" & 5 1	N-80 0.00579 bbi/ft 4")0.0158 bbi/ft			AUG 1	1 2003
Burst @100%: Collapse @ 100%: Joint Strength:	10,570 psi 11,170 psi 145,000 lbs			KCC W	ICHITA
Pipe Body Yield:	145,000 lbs 2.441 in			• .	
Drift ID; 2 7/8" SN: (ID / CON)	2.347 in N/A				

Casing / Cement:		Tubing Head		
	Production:	Surface:		
Size:	5 1/2"	B 5/8"	Type:	Huber-Independent
Weight:	15.5 #/ft	22.81 #/ft	MWP:	2000 psi
Grade:	J-55	ISW-42	Min, Bore:	
Depth:	0'-5420' (Est)	1'1585'		
Capacity:	0.0238 bbi/ft	0.0636 bbl/ft		
Burst @100%	4810 psi	. 2130 psi		
. J.D.	4.950	7.972"		
Drift ID:	4.825"	8.125"		
Landing Depth:	5420' (Est)	1585'		
Port Collar Depth:	N/A ` ´			
TOC Stage 1:	4900' (Est.)	Surface		

NOTE: Daily safety and environmental checks are to be performed on location through out the completion process!

Completion Procedure:

- 1) Dress location level prepare for completion unit. Set rig anchors. Pull test same to 16,000 lbs. Tag anchors and chart pull test for records.
- 2) MIRU Well Service 300 Series completion unit. [Dead pull rated: 120,000 lbs w/ 4 lines, 180,000 lbs w/ 6 lines]
- 3) Spot flow back frac tank +/-100 from well head. Lay 2" (hammer union connections and ball valves ≥ 2M psi) flow lines from tubing head annulus. Manifold line to frac tank and reserve pit.
- 4) N/U 5 1/2" x 11" 2M Flange P/O. N/U 5 1/2" Huber Tbg Head. M/U screw-on companion flange. N/U 7 1/6" 3M manual BOP dressed w/ blind rams and 2 7/8" pipe rams. Function test both sets of BOP rams. Place 2 7/8" 3M psi 'TIW' valve & closing key on rig floor.

- 5) MIRU Schlumberger wireline. N/U 7" 8rd flange on top of BOP. (Note: Record length, caliper, and retrieving neck dimensions of all in-hole wireline tools prior to running in hole). M/U gauge ring/junk basket/GR/CCL. Utilize standard w/l pack-off. RIH to PBTD (Est @ +/- 5378'). POOH. L/D gr & jb. Record fluid level and WL PBTD.
- 6) M/U CMT/GR/CCL. RIH. R/U kill truck with steal lines to annulus. Pressure casing to 1000 psi. Correlate to Schlumberger Z-D/CN/GR dated 07/20/03. Run bond log f/ PBTD to +/- 200' above apparent TOC under 1000 psi. Record PBTD, TOC, & maker joint.
- 7) Release pressure. POOH. L/D bond tools.
- 8) Verify adequate isolation across primary zone Morrow (5250'-5300').

 Minimum 50' above and 50' below zone. Fax bond-log to 806-457-4696 (log-fax). E-mail bond log to john vigil@anadarko.com Note: Calibrate CMT tool to cement compressive strength of 1600 1900 psi.
- 9) If cement is adequate, RU full lubricator. M/U GR/CCL. RIH w/ Schlumberger's 3 3/8" casing csg gun w/ power-jet, 6 spf, 120 deg. Correlate (w/ Gamma Ray) to Schlumberger Z-PD/CN/GR open-hole log dated 07/20/03. Perforate Morrow 'D' f/ 5262' - 5290' [28']. POOH. Record changes in fluid level and/or surface pressure. RDMO wireline.
- 10)M/U Baker Model "R" packer, 1 jt 2-7/8" tubing, standard SN (ID = 2.25") & 2-7/8" tubing.
- 11) Strap, drift, & P/U +/- 5200' of 2 7/8", 6.5#/ft, N-80, 8rd EUE WORK STRING. Set packer @ +/- 5200' w/ 22,000 lbs. (NOTE: Do not set pkr in casing coller. See depths CCL log). Position 2-7/8" TIW valve (and closing key) on rig floor while TIH.
- 12) Set packer on top of BOP. Set slips and close pipe rams. M/U 2 7/8" TIW valve on tbg.
- 13)R/U swab w/ no-go. Swab fluid to S/N. Record IFL, EFL, total fluid recovery, and all shows of hydrocarbon. If possible, identify fluid entry and obtain samples for analysis and compatibility tests. Send water and oil samples to HES for analysis and for acid compatibility test.
- 14)MIRU HES acid crew and equipment. No isolation tool necessary. N/U HES to TIW (or other master w/ MWP > 3M) valve. Hold operations/saftey meeting. Pressure test surface lines 3500 psi. Bled. Set Pmax for treatment @ 3000 psi. Monitor annulus w/ pressure transducer. Load tubing ≤ 2 bpm. Pump breakdown as follows:

4000 gal 10% Acetic: (Adds: 1 gal/M MSA II, 1 gal/M Losurf-300 + 2 gal/M Cla-Sta XP + 175 Bio-Ball Sealers)

Note: See attached pump schedule

- 15) Record breakdown pressure. Increase to full rate +/- 8-10 bpm. Displace w/ treated 4% KCL to top perforation (HES to provide displacement verify on job call out.) Record ISIP, ATP, ATR, and 5 min, 10 min, & 15 min Shut-in tubing pressure. RDMO HES.
- 16) RU swab. Recover load.
- 17) Shut in well overnight. R/U slickline. Obtain SBHP @ MPP. Leave bomb on bottom minimum one hour. Record dead weight SITP and FL during test. Fax and/or e-mail test result to john vigil@anadarko.com. RDMO slickline testers.
- 18)Contact area production foreman. Communicate intentions and timing for well completion. If necessary, coordinate production facilities, pumping unit, and pipeline.
- 19) If necessary, kill down tbg. with treated 4% KCL. Unseat paker. P/U on tubing. Open packer by-pass and equalize across same. **Note:** If tubing is dry prior to opening by-pass, load tubing with 10 bbl treated 4%.
- 20) R/U swab. Swab down annular volume. R/D swab.
- 21) TOH L/D packer & work string. Report lost rubber and /or slip elements.
- 22)M/U & TIH w/ BOT WL entry guide (OD: 3.668", ID 2.00"), 1 jt 2 7/8" Duoline-20 tbg, BOT 10K Coated Hornet-2 pkr (OD: 4.656", ID: 1.978"), and 2 7/8" Duoline-20 (ID: 2.195") to surface. Note: Run Duoline-20 tbg according to manufactures specs.
- 23) Set pkr @ +/- 5200'. Note: Do not set pkr in casing collar (see Cmt bond log for location of collars).
- 24) N/D BOP and companion flange. Set 2 7/8" slips in Huber head and PO. N/U 2M brass injection-head valve and lined 2 7/8" XO nipple.
- 25) Slowly load annulus w/ pkr fluid (2% KCL w/ 10 gal/M Unichem Corrosion Inhibitor).
- 26) Pressure test annulus in stages to 500 psi. Hold 15 min. and record.
- 27) Release rig and all rental equipment.

28) Turn well to production department for final KCC annular test and establish injection in Morrow 'D'.