

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐		5. LEASE DESIGNATION AND SERIAL NO. SF-078386	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR AMOCO PRODUCTION COMPANY		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201 (303) 830-4075		8. FARM OR LEASE NAME, WELL NO. San Juan Unit 32-9 /DK/ #114	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1005' FNL 1605' FEL UNIT B NW/4NE/4 At top prod. interval reported below At total depth		9. API WELL NO. 3004528988	
14. PERMIT NO.		12. COUNTY OR PARISH San Juan	
DATE ISSUED		13. STATE NEW MEXICO	
15. DATE SPUDDED 08/26/93	16. DATE T.D. REACHED 09/26/93	17. DATE COMPL. (Ready to prod.) 01/08/94	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6628' GR
20. TOTAL DEPTH, MD & TVD 8332'	21. PLUG, BACK T.D., MD & TVD 8250'	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY ROTARY TOOLS YES CABLE TOOLS NO
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* Dakota 7847' - 8276'			25. WAS DIRECTIONAL SURVEY MADE Y
26. TYPE ELECTRIC AND OTHER LOGS RUN HRI, SP, CSNG, ML, SDL, DSN, DSEN, ULTRA, SASHA, DCL, CBL, After Frac Advisor, Isotope Tracer			27. WAS WELL CORED N
28. CASING RECORD (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
13 3/8" J55	61#	405'	13 3/8"
9 5/8" J55	36#	3922' 3880	12 1/4"
7" J55	23#	7887'	8 3/4"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
4 1/2" N-80	7686'	8223'	30 88LS CL G
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	7950'		
31. PERFORATION RECORD (Interval size and number) See Attached			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
7847' - 8276'	See attached		
33.* PRODUCTION			
DATE FIRST PRODUCTION 1-08-94		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing	
WELL STATUS (Producing or shut-in) SI w/o 1st Del			
DATE OF TEST 1-08-94	HOURS TESTED 24	CHOKE SIZE 1 1/2"	PROD'N FOR TEST PERIOD
FLOW TUBING PRESS 0	CASING PRESSURE 728	CALCULATED 24-HOUR RATE	OIL - BBL. 0 GAS - MCF. 0 WATER - BBL. 0 OIL GRAVITY - API (CORR.)
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold			TEST WITNESSED BY
35. LIST OF ATTACHMENTS			

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Mike Curry TITLE BUSINESS ANALYST DATE 03 1994

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representation in any matter within the jurisdiction.

RV

#114

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME		TOP				
						MEAS. DEPTH	TRUE VERT. DEPTH			
				Zone	Est Struc	Calc Depth	Calc Struc	Actual Depth	Input Date	Tops Source
				OJOA_	4407	2235	4575	2067	12/29/93	AM
				KIRT			4475	2167	12/29/93	AM
				FRLD	3582	3060	3600	3042	12/29/93	AM
				PCCF	3242	3400	3190	3452	12/29/93	AM
				LWIS	2772	3870	3074	3568	12/29/93	AM
				CLFH	1252	5390	1360	5282	12/29/93	AM
				MENF	1222	5420	1265	5377	12/29/93	AM
				PNLK	927	5715	966	5676	12/29/93	AM
				MNCS	527	6115	555	6087	12/29/93	AM
				GLLP			-466	7108	12/29/93	AM
				GRNH	-1143	7785	-1065	7707	12/29/93	AM
				GRAN			-1124	7766	12/29/93	AM
				DKTA	-1263	7905	-1188	7830	12/29/93	AM
				MRSN			-1548	8190	12/29/93	AM
				td	-1628	8270	-1691	8333	12/29/93	AM

SAN JUAN UNIT 32-9 #114
PERF/FRAC

MIRUSU 10/15/93. TAGGED UP ON CMT @ 7166'. DRILL CMT TO LINER TOP @ 7686' CIRC HOLE CLEAN & PRESS TEST TO 1500 PSI, HELD OK. DRILL CMT FROM LINER TOP @ 7686' TO 7716'. PRESS TEST TO 1500 PSI, OK. TIH 8180' & TAGGED CMT, DRILLED CMT TO 8250'. RAN CBL CCL GR FROM 8300' TO 3100', EST. CMT TOP @ 3450'. PRESS TEST CSG TO 3500 PSI, OK. CIRC HOLE CLEAN W/16000 SCFN N2, TOH W/TBG. RIH & PERF DK FROM 8274'-8276' W/ 3 3/8 HSC SCALLOPED GUN W/4 JSPF 32.2 GR CHARGE .5 HOLE 22.3" PENT. RIH W/GR JB TO 8260', RIH & SET CMT RET @ 8250'. TIH W/STINGER & STUNG IN, PRESS TEST TO 1000 PSI & EST INJ RATE OF 1.7 BPM @ 1000 PSI.

MIXED & PMPED 100 SXS CLASS G CMT W/.6% HALAD 413 & .1% HR - 12 PMP 20.4 BBLS CMT & DISPLACED 6 BBLS BELOW RET TO A SQUEEZE PRESS OF 3500 PSI. TIH W/TBG CONVEYED 3 3/8 GUNS W/4 JSPF 90 DEG PHASED 32 GRM. NDBOP NU WELL HEAD. PRESS TST CSG TO 500 PSI, HELD OK. RIGGED UP PMP ON CSG PMPED 5 BBLS & PRESS UP TO 500 PSI, HELD FOR 15 MIN.

RIGGED UP PMP & PMPED 21 BBLS OF 2% KCL WATER DWN TBG, PRESS STARTED OUT @ 1700 PSI, FINAL PMP PRESS = 1100 PSI. RIG UP PMP & PRESS TST CSG TO 500 PSI W/1.1 BBL. NUBOP RELEASE PKR ON TCP GUNS. TIH W/TCP GUNS, ALL SHOTS FIRED. TIH W/ 1/2 MULE SHOE, 1 JT, SN, F COLLAR & 259 JTS TAGGED UP @ 8250'. TOH & LANDED TBG @ 8110'. NDBOP NUWH, RU N2 EQUIP & DISPLACED HOLE W/150000 SCF N2.

bled OFF CSG PRESS NDWH, NUBOP. TOH W/PROD TBG. RUWLE, RIH & SET WIRE LINE/TBG RET BRIDGE PLUG @ 8098', DUMP BAILED 1 SXS SAND ON RBP. RIH & PERF DK FROM 8072' - 8076', 8042' - 8046', 8030' - 8034' W/3 1/8 HCG W/120 DEG PHASED 16 GRM CHARGE .38 HOLE. TIH W/RBP & PKR & SET RBP @ 8082', PULLED UP & SET PKR @ 8070'. TIH & RELEASED RBP @ 8082'. TOH & SET RBP @ 8065, PULLED UP HOLE & SET PKR @ 8036', RU TO SWAB PERFS 8042'-8046'.

RU PMP FILL TBG W/31 BBLS INT. PRESS 2800 PSI, PMPED 1 BPM @ 2700 PSI FOR 7 BBLS. PERFS BROKE BACK TO 2400 PSI. PMPED @ 1.5 BPM @ 2700 PSI FOR 3 BBLS SHUT DWN PMP. TOTAL PMPED 41 BBLS, 10 BBLS IN FORMATION. RELEASED PKR @ 8036 & TIH, RELEASED RBP @ 8065, TIH & SET RBP @ 8082. PULLED UP & SET PKR @ 8065, TRIED TO BREAK PERFS 8072'-8074' W/RIG PMP. PRESS UP TO 3000 PSI. RELEASED RBP & PKR & TOH & SET RBP @ 8036 & SET PKR @ 8010'. TRIED TO BREAK DWN PERFS 8030'-8034' W/RIG PMP. PRESS UP TO 3000 PSI, UNABLE TO BREAK PERFS, RIGGED UP PMP TRUCK, PMP 10 BBLS & BROKE BACK FROM 3600 TO 3170 @ 2 BPM. RELEASED RBP & PKR, TIH & SET RBP @ 8082' & PKR @ 8065'. RU PMP TRUCK & BROKE PERFS 8072'-8076' W/17 BBLS @ 1 1/2 BPM @ 3350 PSI. RELEASED PKR & TOH TO 8000' SET PKR.

RELEASED PKR @ 8000', TIH & RELEASED RBP SET @ 8082' & TOH W/BOTH. RU WLE & RIH & PERF DK W/3 1/8 PORTED GUN W/16 GRM CHARGE & 120 DEG PHASED & .4 HOLE W/1 JSPF FROM 7948'-7954', 7898'-7904', 7847'-7851'. TIH W/RBP & PKR & SET RBP @ 8012' & PKR @ 7919'. BROKE DWN PERFS 7948'-7954' BY PMPING 10 BBLS @ 2 BPM, PRESS BROKE BACK FROM 3700 PSI TO 3415 PSI. REL PKR & RBP & MOVED UP HOLE & SET RBP @ 7932' & PKR @ 7876'. PMPED INTO PERFS 7898'-7904' W/10 BBLS @ 2 BPM, PRESS WENT FROM 2000 TO 2700 PSI. RELEASED PKR & RBP, MOVED UP HOLE & SET RBP @ 7876' & PKR @ 7825', PMPED INTO PERFS 7847'-7851' W/10 BBLS @ 2BPM. PRESS WENT FROM 2805 TO 2450 PSI.

HYDRO TST 3.5 TBG & PKR. TST TBG TO 7000 PSI, TIH W/250 JTS & 2 JTS OF 2 3/8 N - 80 TBG. SET PKR @ 7722', PRESS TST CSG TO 1000 PSI. NDBOP NU WELL HEAD & PRESS TST FLANGES. FRAC DK INTERVAL 8072'-8076', 8042'-8046', 8030'-8034', 7948'-7954', 7998'-7904', 7847'-7851'. ALL X LINK CONTAINED RA MATERIAL SCANDIUM, 46 & ALL SAND IRIIDIUM 192, PMP 5000 GAL 50 LB / M HPG GEL WATER PAD @ 22.6 BPM & 7270 PSI. PMPED 35000 GAL GEL WATER PAD & 10000 GAL GEL WATER W/4000 LBS 100 MESH SAND. PMPED 6000 GAL OF GEL WATER PAD, 10000 GAL W/1.0 PPG 20/40 SAND, PMP 12000 GAL W/2.0 PPG SAND. 12000 GAL W/2.5 PPG SAND, 10000 GAL W/3.0 PPG SAND. PMPED 3481 GAL W/4 PPG 20/40 SAND & STARTED TO SCREEN OUT FLUSHED W/2424 GAL PRESS UP TO 7533 PSI. TOTAL SACKS=1212.

NDWH NUBOP, RELEASED PKR & TOH LAYING DWN 3.5 TBG, TOH W/200 JTS TONGES BROKE DWN. TIH W/RET HEAD & 2 3/8 TBG. TAG SAND @ 8045', RU & CIRC OUT SAND TO RBP @ 8098', LATCHED & TOH W/PLUG.

RIH & RE-PERF DK INTERVALS FROM 7948'-7954', 7898'-7904', 7847'-7851' W/3 3/8 PORTED HCG W/4 JSPF 90 DEG PHASED 16 GRM .40 HOLE 16 INCH PENT. RD WLE & TIH W/PROD STRING TO 7400'. RDMOSU, TURNED WELL OVER TO TESTERS 12/12/93.

RIGGED UP WIRE LINE EQUIP 12/21/93. RAN PROD LOG OVER PERF INTERVAL FROM 8116'-7847'. TIH W/ 1/2 MULE, 1 JT, SN W/F COLLAR, 255 JTS TBG & LANDED TBG @ 7950', NDBOP NUWH, RU N2 EQUIP & UNLOAD HOLE W/98000 SCF OF N2. RDMOSU 1/8/94.