

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

(See other instructions on reverse side)

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-080376	
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		8. FARM OR LEASE NAME, WELL NO. San Juan Unit 32-9 #113	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1450' FNL 990' FWL UNIT E SW/4NW/4		9. API WELL NO. 3004528987	
At top prod. interval reported below		10. FIELD AND POOL, OR WILDCAT Basin Dakota Gas	
At total depth		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 9 Township 31N Range 9W	
14. PERMIT NO.		12. COUNTY OR PARISH San Juan	
DATE ISSUED		13. STATE NEW MEXICO	
15. DATE SPUDDED 10/03/93	16. DATE T.D. REACHED 10/27/93	17. DATE COMPL. (Ready to prod.) 01/13/94	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6706' GR
20. TOTAL DEPTH, MD & TVD 8408'	21. PLUG. BACK T.D., MD & TVD 8330'	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 8026' - 8350'			25. WAS DIRECTIONAL SURVEY MADE Y
26. TYPE ELECTRIC AND OTHER LOGS RUN HRI, SP, CSNG, ML, SDL, FDC, ULTRA, Temp, CBL, EPT, Tracer Scan			27. WAS WELL CORED N

28. CASING RECORD (Report all strings set in well)					
CASING SIZE/GR/DE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8" K55	61#	421'	13 3/8"	460' sx Class G circ 22 BBLs to surf	
9 5/8" J55	36#	3867'	12 1/4"	1st stg - 620' sx CL B, 2nd stg - 700' sx CL B, tail with	100' sx CL B
7" J55	23#	7827'	8 3/4"	336' sx POZ, 260' sx POZ	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)
4 1/2"	7618'	8407'	125' sx CL G		2 3/8"	8173'

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
See attached		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		8026' - 8350'	See attached

33. PRODUCTION							
DATE FIRST PRODUCTION 1-12-94		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 1-12-94	HOURS TESTED 24	CHOKE SIZE 1 1/2"	PROD'N FOR TEST PERIOD	OIL - BBL. 26	GAS - MCF. 272	WATER - BBL. 0	GAS-OIL RATIO
FLOW TUBING PRESS 180	CASING PRESSURE 495	CALCULATED 24-HOUR RATE	OIL - BBL. 26	GAS - MCF. 272	WATER - BBL. 0	OIL GRAVITY - API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold	TEST WITNESSED BY
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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 OCT 27 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 statements or representations as to any matter within its jurisdiction.

ACCEPTED FOR RECORD

FARMINGTON DISTRICT OFFICE

BY

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		
						AMOCO TOPS			
	Zone	Est Struc	Calc Depth	Calc Struc	Actual Depth	Input Date	Tops Source		
	OJOA_	4455	2265	4466	2254	12/29/93	AML		
	KIRT			4390	2330	12/29/93	AML		
	FRLD	3535	3185	3534	3186	12/29/93	AML		
	PCCF	3140	3580	3152	3568	12/29/93	AML		
	LWIS	3005	3715	3040	3680	12/29/93	AML		
	CLFH	1280	5440	1300	5420	12/29/93	AML		
	MENF	1223	5497	1233	5487	12/29/93	AML		
	PNLK	898	5822	922	5798	12/29/93	AML		
	MNCS	724	5996	518	6202	12/29/93	AML		
	GLLP	-421	7141	-417	7137	12/29/93	AML		
	GRNH	-1150	7870	-1118	7838	12/29/93	AML		
	GRAN	-1210	7930	-1178	7898	12/29/93	AML		
	DKTA	-1290	8010	-1250	7970	12/29/93	AML		
	MRSN	-1670	8390	-1602	8322	12/29/93	AML		
	TD	-1720	8440	-1688	8408	12/29/93	AML		

SAN JUAN 32-9 #113
PERF/FAC

MIRUSU 11/02/93. ND WELL HEAD, NUBOP, TIH W/BIT & SCRAPER & TIH TO 5200'. TAGGED CMT @ 7118', CIRC & DRILLED OUT CMT TO 7465', CIRC HOLE CLEAN.

DRILL OUT CMT FROM 7465' TO LINER TOP @ 7618'. CIRC HOLE CLEAN & PRESS TEST TO 1000 PSI, HELD OK. DRILLED OUT 25', CMT IN LINER TOP & PRESS TEST TO 1000 PSI, HELD OK. TIH & DRILL CMT OUT FROM 8276'-8361' TO FLOAT COLLAR, CIRC HOLE W/CLEAN WATER & TOH. LAID DOWN DC & RIGGED UP WIRE LINE. RAN CBL GR CCL FROM PBTD OF 8361' TO 2000' UNDER 1500PSI.

TIH W/TBG LANDED @ 7864'. PRESS TEST CSG TO 3500 PSI, HELD OK. OPENED CSG VALVES & CIRC OUT CSG FROM 7862'. RU WLE RIH & **PERF FROM 8340' - 8350' W/3 3/8 SCALOPED HCG W/4 JSPF 90 DEG PHASED 23 GRM**. RIH & SET CMT RET @ 8330', RD WLE, TIH W/CMT STINGER & STUNG INTO RET @ 8330'. MIXED & SPOTTED 50 SXS 10 BBLs OF CLASS G CMT W/.6% HALAD 413 & .1% HR-12 SPOTTED CMT W/1 BBL OF STINGER. STUNG INTO RET SET @ 8330', PRESS UP ON CSG TO 800 PSI, DISPLACED 4 BBL CMT BELOW RET TO 3500 PSI. STUNG OUT OF RET & REV OUT 6 BBLs CMT, TOH W/STINGER.

SET PKR & NDBOP NU WELL HEAD. PRESS TEST CSG & PKR TO 500 PSI, HELD OK. DROPPED FIRING BAR & **PERF DK FROM 8296' - 8306' W/3 3/8 HCG W/4 JSPF 90 DEG PHASED 32 GRM CHARGE .5 HOLE 21 INCH PENT**. NUBOP, RELEASED PKR & TOH W/TCP GUNS, ALL SHOTS FIRED. RU WLE RIH W/CIBP & SET @ 8280', RD WLE & PRESS CIBP TO 2000 PSI, HELD OK. PRESS TEST CSG TO 500 PSI, DROPPED FIRING BAR & **PERF DK FROM 8232' - 8242' W/3 3/8 SCAL GUN W/4 JSPF .5 HOLE & 90 DEG PHASED W/22 INCH PENT**.

BLEED OFF PRESS NDWH, NUBOP. RELEASED PKR & TCP GUNS SET @ 8144' & TOH. RU WIRE LINE EQUIP. RIH & SET RBP @ 8210'. RIH & DUMPED 1 SXS SAND ON RBP, PRESS TEST PLUG TO 2000 PSI, HELD OK. RIH & **PERF DK INTERVAL FROM 8168' - 8172', 8120' - 8156', 8091' - 8104', 8026' - 8040' W/3 3/8 PORTED HCG W/16 GRM CHARGE 120 DEG PHASED 2 JSPF .38 HOLE, RD WLE**. TIH W/PPI TOOL W/20' SPACING TO **BOTTOM PERFS 8168' - 8172'**, TOH W/PPI TOOL. TIH W/RBP & PKR SET RBP @ 8186' & PKR @ 8160' EST INJ RATE INTO PERFS. MOVED PKR TO 8118', EST INJ RATE OF 1960 PSI & PMP INTO PERFS @ 2 BPM @ 2566 PSI FOR 10 BBLs. SET RBP @ 8118' & PKR @ 8080', **PERFS 8091' - 8104' COMMUNICATED W/PERFS 8028' - 8040'**. SET PKR @ 8011', PMP IN @ 1830 PSI EST INJ RATE OF 4 BPM @ 3178 W/10 BBLs.

TOH W/RBP & PKR, TIH W/RET PKR 2 JTS N-80 2 3/8 TBG, 248 JTS OF 3 1/2 N-80 & LANDED TBG @ 7667', PRESS TEST PKR TO 1000 PSI, HELD OK. **FRAC DK PERFS 8168' - 8172', 8120' - 8156', 8091' - 8104', 8026' - 8040', PMPED 50 LB/M HPG GEL WATER FRAC W/148000 LBS 20/40 SAND**. PUMPED 5000 GAL PRE PAD @ 34.8 BPM 5000 PSI & SHUT DOWN, PUMPED 10,000 GAL PAD FOLLOWED BY 30,000 GAL W/30,000 LBS OF 100 MESH SAND.

ND WELL HEAD, RELEASED PKR & TOH LAYING DOWN FRAC STRING & PKR, TIH W/2 3/8 TBG TO LINER TOP. TOH W/TBG, RU WLE & RAN POST FRAC LOG FROM 8189' TO 7877', RD WLE & TIH W/ 1/2 MULE, 1 JT SN F-COLLAR, 261 JTS & LANDED TBG @ 8173', NDBOP, NUWH. RDSU 12/29/93.