

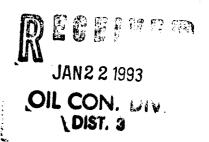
AMOCO PRODUCTION COMPANY

WELL ANALYSIS COMPARISON

LEASE: GARCIA GC #1E

JANUARY 15, 1993

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m-21-29N-10W	BRDNHD	CASING
DATE:	1/12/93	1/12/93
NO .:	30041	30042
	MOLE %	MOLE %
NITROGEN CO2 METHANE ETHANE ETHANE PROPANE I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE+	0.100 88.231 5.085 2.114 0.542 0.535 0.284	84.986 7.889 3.266 0.669 0.860 0.372 0.265
BTU'S	1130.7	1176.0
GPM	2.7892	3.8678
GRAVITY	0.6556	0.6807



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Job separation sheet

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State of New Mexico Form C-103 Submit 3 Copies Energy, Minerals and Natural Resources Department Revised 1-1-89 to Appropriate District Office DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION WELL API NO. P.O.Box 2088 3004524649 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088 Indicate Type of Lease FEE X STATE DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSAL'S TO DRILL OR TO DEEPEN OR PLUG BACK TO A 7. Lease Name or Unit Agreement Name DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) GARCIA GAS COM "B" 1. Type of Well: OIL WELL OTHER 2. Name of Operator Attention: 8. Well No. AMOCO PRODUCTION COMPANY Dallas Kalahar 1E 3. Address of Operator 9. Pool name or Wildcat P.O. Box 800 Denver Colorado 80201 **BASIN DAKOTA** 4. Well Location 790' **FSL** 590' Unit Letter Feet From The Line and Feet From The 21 Section 29N 10W SAN JUAN Township Range NMPM County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5471' G.L. 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK **ALTERING CASING TEMPORARILY ABANDON** CHANGE PLANS COMMENCE DRILLING OPNS. PLUG AND ABANDONMENT **PULL OR ALTER CASING** CASING TEST AND CEMENT JOB Bradenhead Repair X OTHER: OTHER: 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103. Bradenhead repair to ensure zonal isolation behind casing. See attached procedures. I hereby certify that the information above is true and complete to the best of my knowledge and belief. **Business Analyst** 06-14-1993 SIGNATURE TTTLE DATE Dallas Kalahar TYPE OR PRINT NAME TELEPHONE NO. (303) 830-5129 (This space for State Use) 1993 Original Signed by CHARLES GHOLSON DEPUTY OIL & GAS INSPECTOR, DIST. #3 JUL

TITLE

APPROVED BY .

CONDITIONS OF APPROVAL, IF ANY:





STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

1000 BIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 [505] 334-6178

94164

BRADENHEAD TEST REPORT (Submit 2 copies to above address)

Date of Test	3-17-92 0	perator Amo	co Production, 2	00 Amoco Court, Farmir	igton, NM
Lease Name	Jaras Gas Com	Well No. By	Location: Unit	Section 21 Township 20	9 N Range 10 W
Pressure (Sh	ut-in or Flowing) Tu	bing <u>283</u>	Intermediate	Casing 3/7 Braz	denhead //5
OPEN	BRADENHEAD AND I	NTERMEDIATE	TO ATMOSPHERE I	NDIVIDUALLY FOR 15 MIN	TUTES EACH
TIME	PRESSU INTERMEDIATE	RES: CASING		BRADENHEAD FLOWED	INTERMEDIATE FLOWED
5 min		313	Steady Flow		
10 min.		1	Surges		
15 min				g	
20 min.			Nothing		
25 min.			Gas		
30 min.			Gas & Water	/	
			Water		
	ead flowed water, check		SALTY	SULFUR	BLACK
REMARK					
KEMARA.	. 1H. 2 min	el Cons	- 100tz. 12	Light Exert	
7!K	= interest = , me	2			
	,				
By /	Tenso t	TERUS	W	itness	
	//				

Workover Procedure Garcia Gas Com E #1E Sec.21-T29N-R10W San Juan County, NM

- 1. Contact Federal or State agency prior to starting repair work.
- Catch gas and/or water sample off of bradenhead and casing, and have analyzed.
- 3. Install and/or test anchors on location.
- 4. MIRUSU. Check and record tubing, casing and bradenhead pressures.
- 5. Blow down well and kill well, if necessary, with 2% KCL water.
- 6. ND wellhead. NU and pressure test BOP's.
- 7. TIH and tag PBTD, check for fill. Trip and tally out of hole with tubing, checking condition of tubing.
- 8. TIH with bit and scraper to top of perforations. A seating nipple and standing valve may be run in order to pressure test tubing. TOH.
- 9. TIH with RBP and packer. Set RBP 50-100 ft. above perforations. TOH one joint and set packer. Pressure test RBP to 1500 psi.
- 10. Pressure test casing above packer. Isolate leak, if any, by moving packer up the hole and repeating pressure test.
 - NOTE: If this can not be accomplished, contact Greg Grotke in Denver at (303) 830-4079. If no leak is found, it may be necessary to perforate the casing below surface casing depth or above the top of cement in order to circulate cement to surface.
- 11. Establish injection rate into leak, if found, and attempt to circulate to surface.
- 12. Release packer, spot sand on RBP and TOH with packer.
- 13. Run, if necessary, a CBL and CCL to determine cement top.
- 14. Perforate casing above cement top, if necessary, with 4 JSPF and circulate dye to determine cement volume.

- 15. Depending on depth of hole and circulating pressure, a packer or cement retainer may be needed.
- 16. Mix and pump sufficient cement (Class B or equivalent, with a setting time of 2 hours) to circulate to surface. Shut bradenhead valve and attempt to walk squeeze to obtain a 1000 psi squeeze pressure. WOC.
- 17. TIH with bit and scraper and drill out cement.
 Pressure test casing to 1000 psi. TOH with bit and scraper.
- 18. TIH with retrieving head for RBP. Circulate sand off of RBP and TOH with RBP.
- 19. TIH with sawtooth collar and/or bailer and clean out hole to PBTD, if fill was found in step 7. TOH.
- 20. TIH with production string (1/2 mule shoe on bottom and seating nipple one joint off bottom) and land tubing to original depth. NDBOP. NU wellhead.
- 21. Swab well in and put on production.
- 22. RDMOSU.

GARCIA GAS COM B #1E LOCATION — 21M— 29N— 10W SINGLE DK ORIG.COMPLETION — 10/81 ELEVATION 5471 GL LAST FILE UPDATE — 5/93 BY CSW

OJ AT 476 KL AT 1092 EL AT 1448 PC AT 1748			BOT OF 9.625 IN OD CSA 296 32.3 LB/FT, H-40 CASING W7375 SKS CIR TO SURFACE
<u> Yarıtı</u>			
MV AT 3390			
			DV TOOL @4413
<u>GP AT 5274</u>			
DK AT 6168	DK-2SPF PERF 6233-5266		BOT OF 2.375 IN OD TBG AT 6228
	6404-6416]	
	PBTD AT 6438 FT.	TOTAL DEPTH 6509 FT.	BOT OF 4.5 IN OD CSA 6451 10.5 LB/FT, K-55 CASING W/1285 SKS CIR TO SURFACE
<u> </u>		TOTAL DEFIN 0303 FT.	







Job separation sheet

State of New Mexico

Submit 3 Copies to Appropriate District Office	Energy, Minerals and Natural Re	sources Department	Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION P.O. 173 288		WELL API NO.
DISTRICT II	Santa Fe New Marie 8	37504-2088	3004524649
P.O. Drawer DD, Artesia, NM 882	1111		5. Indicate Type of Lease STATE FEE FEE
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 8	37410	EP 2, 0 1993	6. State Oil & Gas Lease No.
	OIL	CON. DIV.	
SUNDRY N	NOTICES AND REPORTS ON V R PROPOSALS TO DRILL OR TO DEEP	VEDIST. 3	
DIFFERENT RE (FOF	ESERVOIR. USE "APPLICATION FOR I RM C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name
1. Type of Well:			GARCIA GAS COM "B"
OIL GAS WELL 2. Name of Operator	OTHER Attention:		e water
AMOCO PRODUCTION COM		las Kalahar	8. Well No.
Address of Operator P.O. Box 800 Denver	Colorado 80201		9. Pool name or Wildcat BASIN DAKOTA
4. Well Location Unit Letter M:	790' Feet From The FSL	Line and 59	O' Feet From The FWL Line
Section 21	001		
Section 21		Range 10W N her D.F, RKB, RT, GR, etc.)	IMPM SAN JUAN County
		5471' G.L.	
	Appropriate Box to Indicate	1	
NOTICE OF	INTENTION TO:	SU	BSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRILLING	DPNS. PLUG AND ABANDONMENT
PULL OR ALTER CASING]	CASING TEST AND CEN	MENT JOB
OTHER:		OTHER:	Bradenhead Repair
12. Describe Proposed or Completed work) SEE RULE 1103.	Operations (Clearly state all pertinent dete	ails, and give pertinent dates, in	ncluding estimated date of starting any proposed
			w/196 jts tbg . TIH w/ bit & scraper to osi - held ok - TOH w/ ret head. NDBOP
- changed out seals on well	head & tested to 1500 psi- NUE	BOP - RU wireline & ran	CBL CCL, GR from 2600' to surf. CMT
			inj rate of 1 BPM @ 900 psi.RIH & set
			iOO psi- RU cmt equip and mixed & Displaced cmt & stung out of cmt ret w/
			pf 90 deg phased .41hole - RD WLE - est
circ on Bradenhead @ 3BPN	M @ 600psi circ for 2 hrs 45 min.	-Pumped dye w/ 90 bbls	s -RU cmt equip - pump 450 sxs Class B
cmt w/ .3% Halad 344 & 5 tagged plug @ 790' drill on	% cal seal & .2%super CBL- circ. plug to 880' -drill cmt from 880	15 bbls to surf w/ 230Ps to 1080 circ hole clean	SI .TIH w/ bit and scraper & 10 3/8 DC . Press test to 500 psi. Held OK TIH &
			test to 500 psi held ok. TOH w bit -TIH 36 bbls. (CONTINUED SEE ATTACHED)
I hereby certify that the information	above is true and complete to the best of n	ov knowledge and helief	
LValla	o Kalahar	=	nalyst _{DATE} 09-13-1993
SIGNATURE	Dallas Kalahar	TITLE	DATEDATE
TYPE OR PRINT NAME	Dunus Italanai		TELEPHONE NO. 303 - 830-5/2
(This space for State Use)			
APPROVED BY Original Signed	by CHARLES GHOLSON	TITLE PUTY OIL & GAS IN	ISPECTOR, DIST. #3 DATE SEP 2 0 1993

GARCIA GAS COM "B" #1E

Bradenhead Repair

(continued from page 1)

TIH and released RBP and TOH - TIH w/ pump bailer - tagged up @6333' cleaned out to 6348' unable to make any hole. TOH w/ bailer. (changed out csg valves). TIH w/ pump bailer to 6343' pump 20 bbl - worked bailer 45 min. - unable to make any hole. TOH w/ bailer - TIH w/ 1/2 mule 1 jt. - sn with F collar - TIH to 6120' unable to get any N2 - TIH w/ prod string - TIH and tagged up @ 6341' rigged up N2 equip - tried to clean out- unable to make any hole- pulled up & landed tbg @ 6318'. Pump 30 K of N2 - unloaded hole. NDBOP - NU well head- RU to swab - well started to flow- flowed well for 3.5 hrs on 3/4 " choke. Rec 25 bbls SWI - RDMOSU 8-7-93.







Job separation sheet

Submit 3 Copies	_		te of New Me		Form C-103	-
to Appropriate District Office	Ene	ergy, Minerals a	nd Natural Re	sources Department	Revised 1-1-89	, '
DISTRICT I P.O. Box 1980, Hobbs, NM	88240		ERVATION P.O.Box 2088	N DIVISION	WELL API NO.	
DISTRICT II			New Mexico 8		3004524649	
P.O. Drawer DD, Artesia, 1	M 88210				5. Indicate Type of Lease	(▼)
DISTRICT III 1000 Rio Brazos Rd., Aztec	NM 87410				STATE F 6. State Oil & Gas Lease No.	EE X
SUN	DRY NOT	ICES AND REF	PORTS ON W	VELLS		
(DO NOT USE THIS FOR	IM FOR PRO ENT RESERV	POSALS TO DRIL VOIR. USE "APPL	L OR TO DEEPI	EN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name	
1. Type of Well:	(FORM C-	101) FOR SUCH I	PROPOSALS.)		Garcia Gas Com B	
OIL WELL	GAS X	OTHER			03/3/3 243 35/1/3	
2. Name of Operator			Attention:		8. Well No.	
Amoco Production Com	pany		Gail M. Jeff	erson, Rm 1295C	1E	
3. Address of Operator P.O. Box 800 Denve	er	Colorado	80201	(303) 830-6157	9. Pool name or Wildcat Basin Dakota	
4. Well Location Unit Letter M	_: 790	Feet From The	South	Line and	590' Feet From The West	Line
Section	 21	Township	29N F			Line
Section	- 1	Township 10. Elev		Range 10W her DF, RKB, RT, GR, etc.)	· · · · · · · · · · · · · · · · · · ·	County
11. C'	eck App	ropriste Boy	to Indicate 1	Natura of Notice I	Report, or Other Data	
NOTIC	E OF INT	ENTION TO:	io marcate i	1	UBSEQUENT REPORT OF:	
PERFORM REMEDIAL WOR	к 🗌	PLUG AND ABA	NDON	REMEDIAL WORK	ALTERING CASING	
TEMPORARILY ABANDON		CHANGE PLANS		COMMENCE DRILLING		MENT
PULL OR ALTER CASING				CASING TEST AND C		
OTHER:				OTHER:	Well Repair	×
12. Describe Proposed or Conwork) SEE RULE 1103.	npleted Opera	ations (Clearly state	all pertinent deta	lils, and give pertinent dates	s, including estimated date of starting any propos	ed
Amoco Production Co	mpany ha	s repaired the at	ove reference	ed well per the attache	ed	
If you have any quest					Sur	
700 11010 0117 40000	ions picus	contact dan M	. Jenerson at	(303) 830-6197.	DEC	
					PEGENVE	7.5
					~ SEP - 1 1995 L	<i>y</i>
					O[L GON. D[W. DIM. 3	
					OUR GOING DIV	<i>1</i> O
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I hereby certify that the infor	metion share	in topo and an a late	a ta the base of			
راكي	1 411	O 11	o to use best of m	y knowledge and belief. Sr. Admin.	Staff Acat	
SIGNATURE	eu.	fferom	1	TITLE	DATE 08-31-199	5
TYPE OR PRINT NAME	Gail M. J	lefferson, Rm 12	295C		TELEPHONE NO. (303) 83	30-6157
(This space for State Use)						
APPROVED BY	mas R	ounso	√ .	DEPUTY OIL & GAS	INSPECTOR, DIST. # DATE SEP -	1 1995
CONDITIONS OF APPROVAL, IF A	1			HILE	DATE DATE	

Garcia Gas Com B 1E - Repair - Subsequent

MIRUSU 8/9/95. Blew well down. POOH w/2 3/8" tbg. NDWH. NUBOP.

Ran 1.9 Gamma Ray log to 6269'. Ran Slick wire line and set slickline plug & 6260'. Had no tight tubing spots.

Cleaned out with N2 from 6337-6438' and circ @ 1000 scf/m. Recovered sand and 70 bbls wtr in 6 hrs. Waited 2.5 hrs and made 12' fill clean out. TOH blowing hard.

Flowed well. SICP 440#, FCP 440#.

Set CIBP @ T6316' and B6318'.

Received permission from Johnny Robinson of NMOCD to abandon perfs from 6404' -T/16.

TIH w/2.375" tbg and profile nipple. Land tbg @ 6256'.

NDBOP. NUWH. RDMOSU 8/22/95.