CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS
Operator: TEXACO EXP./M. Well: SOE 31 Feb No.9
Contact: MICHAEC AKENDER Title: GNG. Phone: 505 397.0418
DATE IN 3.4.96 RELEASE DATE 3.20.96 DATE OUT 4.4.96
Proposed Injection Application is for: WATERFLOOD Expansion Initial
Original Order: R Secondary Recovery Pressure Maintenance
SENSITIVE AREAS
WIPP Capitan Reef
Data is complete for proposed well(s)? 1/2 Additional Data Req'd No
AREA of REVIEW WELLS
$\frac{2}{2}$ Total # of AOR $\frac{2}{2}$ # of Plugged Wells
45 Tabulation Complete 45 Schematics of P & A's
45 Cement Tops Adequate ν^o AOR Repair Required
INJECTION FORMATION
Injection Formation(s) Sect (Auton Compatible Analysis 45
Source of Water or Injectate AREA PRODUCTION
PROOF of NOTICE
Copy of Legal Notice Information Printed Correctly
Correct Operators Copies of Certified Mail Receipts
Full Objection Received Set to Hearing Date
NOTES: OBJECTION SATISIFIED - SANTA FO FREEZY NEGOTIATED INJ. INTER.
AND FAX WAINER. PITACHON.
APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL?
COMMUNICATION WITH CONTACT PERSON:
1st Contact: V Telephoned Letter 3:18 Date Nature of Discussion OBJECTION 2nd Contact: V Telephoned Letter 4:1 Date Nature of Discussion WAIVE BY 5.F.
2nd Contact: V Telephoned Letter 4. / Date Nature of Discussion WAIVE BY S.F.
3rd Contact: Telephoned Letter Date Nature of Discussion



SWD 3.20.96

March 1, 1996

New Mexico Oil Conservation Division 2040 South Pacheco P.O. Box 6429 Santa Fe, New Mexico 87505

Attention: David Catanach

RE: Application for Salt Water Disposal Well

SDE '31' Federal Lease Bell Canyon Field Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for the conversion of its SDE '31' Federal #9 from a marginal producer within the Bone Springs interval, to a salt water disposal well in the non-commercial Bell Canyon interval. This work will allow Texaco E & P Inc., to eliminate the current disposal costs on the subject lease, and two offsetting leases, from approximately \$800/day. The installation of the proposed disposal well will lower the current economic limit on each well and ultimately allow Texaco E & P Inc. to recover additional oil reserves that would otherwise be left in place.

Texaco E&P Inc. respectfully requests that this application be approved administratively, or through an NMODC sponsored hearing scheduled at the earliest possible time. This is requested so that the necessary operations can be advanced in a prudent manner. If you have any questions concerning the application, please contact me at (505) 397-0419.

Yours very truly.

Michael C. Alexander Production Engineer

MCA/ Attachments File Chrono

cc: Jerry Sexton - NMOCD; Hobbs, New Mexico Gary Gourley - BLM; Roswell, New Mexico

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 FORM C-108 Revised 7-1-81

I.				y Pressure ministrative ap	Maintenance ☐ proval? ∰yes		☐ Storage
II.	Operator: _	Техас	o Explorat	ion & Producti	on Inc.		
	Address: _	P.O.	BOX 730	Hobbs, New Me	xico 88240		
	Contact par	ty:	Michael Al	exander	Phone:	(505)	393 - 7191
III.	Well data:				reverse side of l sheets may be		
IV.				ting project? number authori	yes *** zing the project	no	· · · · · · · · · · · · · · · · · · ·
٧.	injection w	ell with	a one-half	l wells and lea mile radius cir he well's area	ses within two m cle drawn around of review.	iles of an each prop	y proposed osed injection
	#C11. 115						
VI.	Attach a ta penetrate t well's type	ne p <mark>ropos</mark> , constru	ed injection ction, date	n zone. Such d drilled, locat	blic record with ata shall includ ion, depth, reco ll plugging deta	e a descri	a of review which ption of each letion, and
vII.	Attach a ta penetrate t well's type a schematic	ne propos , constru of any p	ed injection ction, date lugged well	n zone. Such d drilled, locat	ata shall includion, depth, reco ll plugging deta	e a descri	ption of each

- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
 - IX. Describe the proposed stimulation program, if any.
- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
 - XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

I hereby certify that the information submitted wi	ith this	application is true and correct
to the best of my knowledge and belief.		- 1 · 1 · 1
Name: Michael Alexander	Title _	Production Engineer
Signature: Michel C. With	Date:	3 - 1 - 96

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the parker used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108

III. SALT WATER DISPOSAL WELL DATA

SDE '31' Federal : Bell Canyon Interval

9 - Unit Letter J, 1980'FSL & 1980'FEL, Section 31, T-23-S, R-32-E Lea County, New Mexico

All pertinent data for the above proposed salt water disposal well is included on the well schematic sheets in this application.

V. SUBJECT AREA MAPS AND AREA OF REVIEW

A map of the subject area, SDE '31' Federal, including all wells within a 2 mile radius is attached. Also attached is a map showing the subject well's area of review (or 1/2 mile radius circle).

VI. TABULATION OF DATA ON WELLS WITHIN AREA OF REVIEW

Currently, Texaco E&P Incorporated operates ten wells on the subject lease (and two offsetting leases, SDE '19' Federal and SDE '18' Federal) producing approximately 400 BOPD, 1,500 MCFPD and 500 BWPD. The subject well is approaching its economic limit and further development potential does not exist within the wellbore. Therefore, Texaco E&P Inc. is proposing to utilize the well to dispose of produced fluids from Texaco's SDE '31' lease, SDE '19' lease and SDE '18' lease within the non-commercial Bell Canyon interval. Attached is a schematic of the subject disposal well and its proposed completion and tubing/packer arrangement. Also attached is a schematic and completion report for each well with the area of review.

The intent of this application is to seek approval, either through a NMOCC administrative approval, or through a New Mexico Oil Conservation Commission sponsored hearing to modify the subject well for salt water disposal. This application is pursuant to the continuation of development and production on Texaco's SDE '31' Federal, SDE '19' Federal and SDE '18' Federal leases, which produce from the Brushy Canyon and Bone Spring intervals. The approval of this application will enhance Texaco E&P Inc. efforts to operate the subject lease as optimally as possible and increase the reserve potential by lowering the economic limit on each producing well.

VI. TABULATION OF DATA ON WELLS WITHIN AREA OF REVIEW (continued)

To date, the following wells within a half mile radius of the proposed salt water disposal well injection wells have been plugged and abandoned:

T-23-S, R-32-E

Section 31 : well(s) : Curtis Hankamer; Continental Fed #1

T-24-S, R-32-E

Section 6 : well(s) : Curtis Hankamer; Bondurant-Federal #1

VII. PROPOSED OPERATION

The proposed completion within the SDE '31' Federal wellbore will be in the Bell Canyon interval with selective perforations between 4600' and 5500'. The packer will be placed within approximately 50' of the top perforation. The tubing will be internally plastic coated. The proposed maximum salt water disposal rate is expected to be 3,000 BWPD. The initial disposal rate is expected to be 500 BWPD. Maximum injection pressure will not exceed 920 psig (0.2 psi/ft OCD allowable rate) until a step rate test establishes a higher limit. Injected fluids will be produced fluids from the Brushy Canyon and Bone Spring intervals. These zones and the proposed injection interval (Bell Canyon) all contain saline waters with total dissolved solids (TDS) and salinity above 10,000 ppm (mg/l). No current recent chemical analysis of the disposal zone is available within the adjacent area, but produced test samples all had TDS and salinity above 10,000 ppm. The system will be closed.

VIII. GEOLOGICAL DATA

The injection interval consists of an interbedded, fine to medium grain sorted sandstone reservoir. The saturation within the reservoir show a low oil saturation which is non-mobile making the formation non-commercial. The Bell Canyon interval has a total thickness of approximately 1400' within the subject area. It overlays the Cherry Canyon (non-productive) and the Brushy Canyon and Bone Spring intervals which are the productive interval within the subject area.

The known sources of fresh water within the subject area exist from approximately 30' to 800' deep. Based on a current geological and

VIII. GEOLOGICAL DATA (continued)

engineering data and a petrophysical rock-properties evaluation, there is no evidence of any natural or artificially created open faults within the unitized interval, or above, which would communicate salt water to the shallow fresh water strata. Texaco E&P Inc., has taken all efforts to insure that all mechanical means of isolation were implemented during drilling and they have been and will continue to be maintained within the proposed disposal well. Attached are copies of the openhole and mud logs across the proposed disposal interval (Bell Canyon) either from the proposed well or an offsetting well within section '31'.

IX. PROPOSED STIMULATION PROGRAM

The subject wells will be stimulated using 4,000 to 10,000 gallons of 20% NEFE HCl acid. Rock salt blocks or ball sealers will be utilized during the jobs.

STATEMENT OF SURFACE OWNER AND OFFSET OPERATOR

SURFACE OWNER :

BUREAU OF LAND MANAGEMENT (BLM)

P.O. BOX 1778

CARLSBAD, NEW MEXICO 88220

OFFSET OPERATOR(S) :

SANTA FE ENERGY RESOURCES INC.

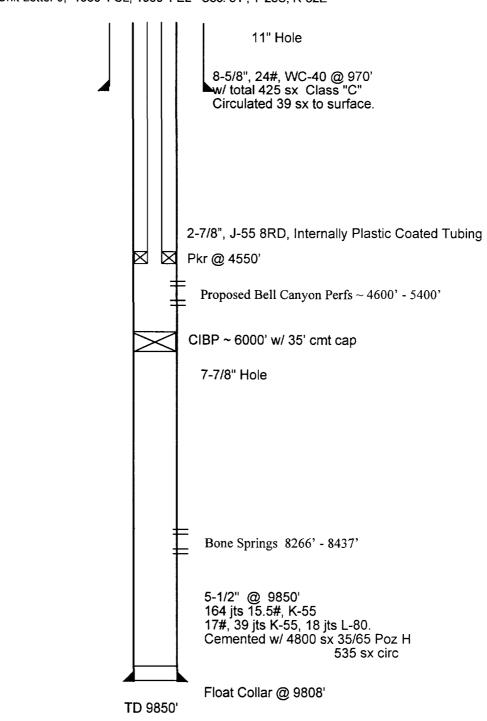
500 WEST TEXAS AVE., SUITE 1330

MIDLAND, TEXAS 79701

C-108 APPLICATION III. PROPOSED DISPOSAL WELL TEXACO E&P INC., SDE FEDERAL '31' LEASE

SDE Federal 31 Well #9 Triste Draw West Lea County, New Mexico

Unit Letter J, 1980' FSL, 1980' FEL Sec. 31, T-23S, R-32E



m 3160-4 tober 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR ECEIVED **BUREAU OF LAND MANAGEMENT**

OPERATOR'S	COPY
FORM APPRO	VED
Budgel Bureau No. 1	004-0137

Expires: December 31, 1991

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V. AREA OF REVIEW MAP

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2 K (P/B) 2 F285 4	F422 9 010J 91		Fed.Estill El 3532 To 4847 Oel 4801 O/All 6.59	
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IN 50 0	1 015.0 0	"SDE-Fed"	Sorta Mates Het. 1 Fe Ener. 1 9 1 - 33 1 1 9 1 - 94 1 AE	
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182	Morathon)	Mitchell Ener. 66924		1 9 · 1 · 93 .'(Qlool
8 THEY APPEND	0405444 0544986 Shelly	to 14500 Meridian	0559539	77063 Sigte
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5 (100 Fed Afolya Disc	1 1 Y	46 3k 3' 1	CARRETO ART	28
26 (Tex Amer.) 5 1000 - Fed. 6 Afolyd Disc. 10 21 - TSMil. 10 21 - TSMil. 10 21 - TSMIL. 10 75 Mil. 10 21 - TSMIL. 10 75 Mil. 10 75	●12·L 011·K	Superior) () • 05	Harvard Pet	
7		Tresnor-Fed Enron O.G. 3n Spor Disc Tresnor-Mitchell 30 Fed.	(R.E. Hibbert) Harvard Pet, (Ames-Fed.)	1
d-Fed."	I3·M ● PI30	· / 003.00 04	(#A11 28 851 €) #30 Y SWO	1
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19199	(Amoco) K 962	F359 Texaco		Pet., etal 9 · l · 93
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71A6382	PIS9 (7 Disc. 2 5 Mill 10 15 400 C 3 18 71	/ • ⁴	300 00 (State Disc) (Magn. Disc) (1915) 20)	!
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ISC. C.P. Millerie	٥	C.Hankamer C.		
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D/A10-70-54	. "Todd 36 St."	10.6.62	1/23:00 : III. 1.47 3 .4	
15 17	- ♦ ' U.S (S)	₹ \ •14	State M.I	
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U.S P 313936 2133 93 n Eneps Texaco toiszzo± 07 2 08 Gulf Little field Fee TD 4656 OA 3 · 6 · 64 tate Bettis Catology Catology	Store 39.95 439.96 113.98 2139.99 A Bettis, etal O - Sotol-Fed. Lizi IV (CNG Prod., etal) Wo Wo JA. 382 Jodd-Fed) TO 4650 TA 9-11-74 Bettis, etal of Pago Prod. Sundance- Superior) Sotol-Fed. Cuperior) Sotol-Fed. OLA 1-4-84) Primero Oper. G710 Gentis Bound U.S. Primero Oper. G710 Gentis Bound Dyectior Stoleil Sundance-Fed U.S. Primero Oper. G710 Gentis Bound BP Sundance-Fed U.S. Colling & Ware Colling & Ware Colling & Ware Sundance-Fed Disc. Disc	U.S. 48 Maco 140 14 Acq 140 00 A; Ass 16 Acq 150 14 Enron 1 (f. Ware) 130 14 Enron 1 (f. Ware) 140 14	U.S (5) 4063 & 1841, 133 & 133 & 133 & 144 Meridian 7-1-97 Meridian V.4047 9.1.93 475 95 90812 Muscleman State 65 90 Muscleman Sta	### 18 % 18 % 18 % 18 % 18 % 18 % 18 % 1
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U.S P 139.96 2133 93 n Ene.P. Texaco toiszzo O	Store 139.95 439.96 1139.96 2139.99 4 Beths, etal (1-2) 17 (CNG Prod., e	U.S. 48 Maco 140 140 140 0017 140 110 10 14 Enron 16 Ware) 114 14 15 16 Ware) 115 Mak 16 Enron 2 Santa Fe Ener 116 Mesa Verde Fed 16 Mesa 16 Mesa	U.S (5" 4063	Werdian Oil 7 1 93 55953 9 -
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U.S P 1/39.96 2/33 93 n Ene.P.) Texaco 1 toiszzo 07 2 08 Guif Little field Fer TD 4656 0/43.6.64 tett Bettis Bros Caso Caso	Store 139.95 439.96 1139.96 2139.99 4 Beths, etal - Sotol-Fed. 13 (1-2) 17 (CNG Prod., etal 10 4650 10 4650 10 4650 10 4650 Sotol-Fed. Sundance-Fed. Superiori PBO Sotol-Fed. Sotol-Fed. Pogo Prod. Sundance-Fed. U.S. Primero Oper. 6710 Goents Bowd 18875 Del. Disc. Primero Oper. 6710 Goents Bowd 18875 Del. Disc. Pogo Prod. Wonsanto, etal HBP Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. U.S. Pogo Prod. Pogo Prod. Sundance-Fed. U.S. Pogo Prod. Colling Fed. Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. Colling Fed. Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. U.S. Pogo Prod. Sundance-Fed. Sundance-Fed. U.S. Pogo Prod. Ogo Prod. Sundance-Fed. U.S.	U.S. 48 Marco 140 140 140 161 161 161 161 161 161 161 161 161 16	U.S (5" 4063	Werdian Oil 7 1 93 55953 9 -
U.S P 139.96 2133 93 n Eneps Texaco toiszzo Of Gulf Little field fee TD 4656 OA 3 6 6 64 tote Bettis Call Bettis	Store 139.95 439.96 1139.96 2139.99 4 Beths, etal (1-2) 17 (CNG Prod., e	U.S. 48 Marco 140 140 140 167 Marine 100 14 Enron (Collins 17064 (KWare) 17064 (KWare) 189174 189174 189174 189174 189174 189174 189174 189175 189174 189175 189174 189175 189174 189176 189177 189174 189177 189177 189174 189177 18917 189177 189177 189177 189177 189177 189177 189177	U.S (5" 4063	Werdian Oil 7 1 93 55953 9 -

SCALE: 1" = 2,800

ATTACHMENTS

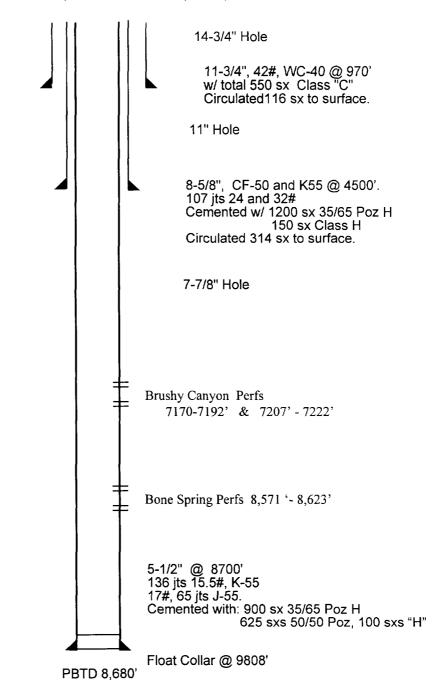
- A) DATA ON WELLS IN AREA OF REVIEW
 - Schematics & Completion Reports
- B) ADDITIONAL GELOGICAL INFORMATION
 - Well Log, Mud Log of proposed disposal interval
 - Water Analysis of produced waters
- C) PROOF OF NOTIFICATION TO:
 - SURFACE OWNER
 - OFFSET OPERATORS
- D) PROOF OF LEGAL NOTICE

A) DATA ON WELLS IN AREA OF REVIEW - Schematics & Completion Reports

TEXACO E & P INCORPORATED

SDE Federal 31 Well #2 Triste Draw West Lea County, New Mexico

Unit Letter C, 1980' FSL, 1980' FWL Sec. 31, T-23S, R-32E



TD 9,850'

Form 3160-4 (October 1990)

TYPE OR PRINT NAME Monte C. Duncan

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0137
Expires: December 31, 1991

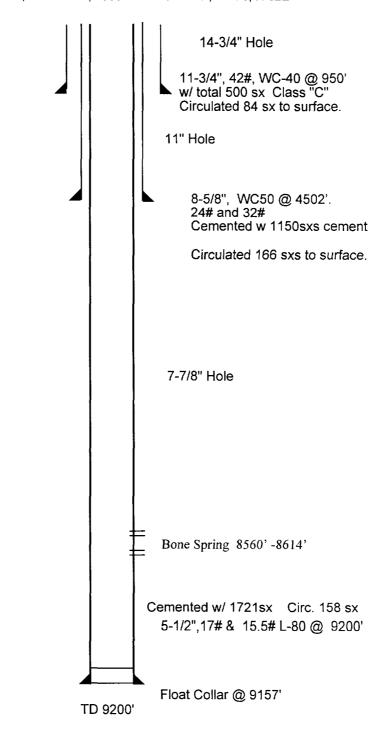
DéSoló#Sabols 10:04 Ver 2 0

SUBMIT ORIGINAL W	ITH 5 COP	IES							5. Lease	Designal	ion and Seria	al No. 1 1884	
ELL COM	PLETI	ON OF	REC	COMPLE	TION RE	POR	T AND L	OG*	6. If India	n, Alotte	e or Tribe Na		
1a. Type of Well: 1b. Type of Completion	OIL WELL	⊠ GA WE	s 🔲	DRY	OTHER				7. If Unit	or CA, A	greement De	signatio	n
NEW WORK	DEE		PLUG [DIFF. RESVR.] OTHER				8. Well N SDE '31'				
2. Name of Operator		TEXACO	EXPLO	RATION & P	RODUCTION	INC.	-		2				
3. Address and Telep	hone No.	P.O. BOX	730, H	OBBS, NM	88240		397-0	0418	9. API W	ell No.			
4. Location of Well (R At Surface Unit Letter C:	660 F	on clearly a		ordance with			m The WEST	Line	SAND DU	JNES; BO	30-025-3 , Exploratory ONE SPRING	Area 6, SOUT	····
At proposed prod. zon	е						•		l .	31 ,	Township		Range 32-E
At Total Depth					14. Permit No.		Date Issued		12. Coun	ty or Pari	sh	13. Sta	
15. Date Spudded 10/15/94	16. Date	T.D. Reac	hed	17. Date Con	npl. (Ready to Pro 11/24/94	od.)	18. Elevations	•	lether DF,R GR-3579'		etc.)	19. El	N.M. ev. Casinhead 3579'
20. Total Depth, MD & 8700°	TVD	T	ack T.D., 8680°	MD & TVD	22. If Multiple 0	Compl., i	How Many*	23. Inte Drilled		tary Too	ŀ	CableTo	pols -
24. Producing Interval(8571' - 8623': SAND I		•	•		(MD and TVD)*						25. Was Dire	ectional YES	Survey Made
26. Type Electric and of DR/CNL/LDT, GR-DLL	-		CCL				·				27. Was We	II Cored	
	· · · · · · · · · · · · · · · · · · ·			CASI	NG RECORD	(Repo	ort all String	s set in	well)	i			· · · · · · · · · · · · · · · · · · ·
CASING SIZE & GRAI	DE	WEIGHT I	.B./FT.	C	EPTH SET		HOLE S	ZE	CE	MENT R	ECORD	AM	OUNT PULLED
11 3/4 WC-40	42#			970' 4500'		14"					CIRC 116		
8 5/8, CF-50 5 1/2 K-55 &	15.5	s# & 17∯		8700		7.7	7/8"			1350 SX 1625 SX	CIRC 96		
											000		
29.			LINIT	D DECORE				1 2	 0.		TUBING RE	CORE	`
SIZE	1 1	OP	1	R RECORD	SACKS CEM	IENT	SCREEN		SIZE	······································	DEPTH :		PACKER SET
									7/8" —		8537		-
31. Perforation record	1 (interval	size and nu	mber)				32. AC	ID. SHOT	r. FRACT	URE. C	EMENT, SO	UEEZ	E. ETC.
8571' - 8623' (104 HC			- (_. ,				DEPTH INT				T AND KIND		
		, ,					8571'-8623'	r eler	ACIDIZE	W/ 200	0 GALS 7 1/	2% HCL	
							8571'-8623'		+		GALS FLUI	-	
						}			& 146180	# 20/40	OTTAWA SA	ND	
33.					PRODL	ICTION	٧		<u>.l.</u>				
Date First Production	1	roduction M LOWING	ethod (FI	owing, gas lift	, pumping - size :	and type	pump)				Well State	ıs (Prod	. or Shut-in)
Date of Test 12/3/94	Hours test 24	ed	Choke 5 17/64"	Size	Prod'n For Test Period	Oil - E 359	Bbt.	Gas - MC 628	F	Water 119	- Bbl.	Gas 174	- Oil Ratio 9
Flow Tubing Press.	Casing -	g Pressure		Calculated 24 Hour Rate	- Oil - Bbl.		Gas - MCF	-	Water - Bt			<u> </u>	-(Corr.)
วosition of Ga VยพTEO BY APPRO	OVAL OF B	•	ented, et	c.)						1	Vitnessed By SHORT		
35. List of Attachmen DEVIATION SURVE 35 thereby certify that the fo	Υ	and coared											
SIGNATURE	n-1/ .	and correct	/ <u>/</u>		TITLE E	ngr As	st				DATE		12/14/94

TEXACO E & P INC.

SDE Federal 31 Well #4 Triste Draw West Lea County, New Mexico

Unit Letter F, 1980' FNL, 1980' FWL Sec. 31, T-23S, R-32E



Form 3160-4" (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OP	ERI	1004-07	OPI

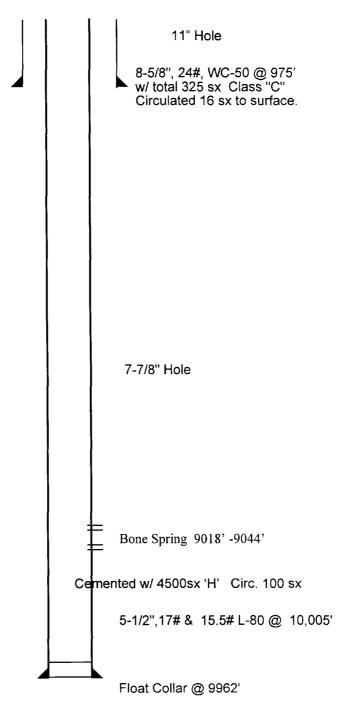
Eroires: December 31, 1991

T ORIGINAL WI	TH 5 C	OPIES				1	Vi Vil		5. La	ase Designat		il No. I 18848	
WELL COM	PLE	TION OR	RECC	MPLE	TION REP	P R	T, AND, LO) <u>G</u> *	6. ¥1	ndian, Alotte			
la. Type of Well: 1b. Type of Completion	WE	L GAS		RY 🗌 O	THER OAS		-11-4-41-	.: .:	7. 11	Unit or CA, A	proomont Do	signation	
NEW WORK WELL OVER	_		kck i	DIFF. [] RESVR.	OTHER ARE.			ିର <u>୍</u>	1	ell Name and			****
. Name of Operator		TEXACO E	XPLORA	TION & PF	RODUCTION IN	IC.			4				
. Address and Teleph		P.O. BOX					397-04	18	9. AF	Well No.	30-025-3		7/6
Location of Well (Re t Surface								Line	- 1	ield and Pool D DUNES; Bo	• • •		н
init Letter F: If proposed prod. zone	1980	Feet From Th		TH Line or	na isou Fi	אסע ניונ	om The WEST	Listo	11. S	EC., T., R., I	A., or BLK. ar Township	-	or Area Range 32-E
VI Total Depth			3	AME	14. Permit No.		Date Issued		12.0	County or Pari	ish	13, Stat	•
	1		147	Date Com	pl. (Ready to Prod		40 Flooring 4			LEA	1	10 Fla	NM v. Casinhead
5. Date Spudded 12/26/94	16.1	tate T.D. Reach 1/11/95	ea ''	. Date Cott	3/18/95		18. Elevations ((SUOM A	GR-35		.	1.5. E.R	3574
0. Total Depth, MD & 9200'	TVD	21. Plug Ba		D&TVD 8750'	22. If Multiple Co	ompl.,	How Many		tervais d By>	Rotary Too 0-92	1	CableTo	ols -
4. Producing Interval(: 560'-8614': SAND DU		•	- Top, Bot		(MD and TVD)*			-1			25. Was Dir	ectional :	Survey Made
4. Type Electric and C	Other Lo	gs Run					··· • • • • • • • • • • • • • • • • • •				27. Was We	4 Cored	
(,SDL-DSN-CS	NG-CA	L, CSL-GR-CAL	GR-DSN									YES	
8.						Repo	ort all Strings		well)				
CASING SIZE & GRAD	×	WEIGHTL	B <i>J</i> FT.		EPTH SET	4	HOLE SIZI	E 	-	CEMENT F	RECORD	AMC	OUNT PULLED
1 3/4		12#		950		-	13/4			XL-C 500 SX,			
5/8		24# & 32#		4505		11				L-H 1150 SX	·		
5 1/2	Ì	15.5# & 17		9200		7	7/8			X-H 1721 SX	, CIRC 158	:	
											THOMAS D	ECORD.	
89. S(ZE	1	тор		RECORD TOM	SACKS CEME	NT	SCREEN		30.	SIZE	TUBING R	_	PACKER SET
34.5	 	100	100	TOWN	SACIO CLIL		JONELLI		2 7/8"	72.5.	8458		8461'
					 								
1. Perforation record	(interv	al, size, and nur	nber)				32. ACI	D, SHO	OT, FR	ACTURE, C	EMENT, S	QUEEZ	E, ETC.
560"-8614" (108 HOL	.ES)						DEPTH INTE	RVAL			T AND KIND	MATER	AL USED
							8560'-8614'			D - 5000 15%			
							8560'-8614'			CD W/ 3700			
									SAI				<u> </u>
33.				·	PRODUC	стю	<u>.</u>			· · · · · · · · · · · · · · · · · · ·			
Date First Production	18/95	Production Me FLOWING	ethod (Flow	ing, gas lift,	, pumping - size a	nd type	e pump)				Well State		. or Shut-In)
Date of Test 3/18/95	Hours 24	tested	Choke Siz 15/64	e	Prod'n For Test Period	Oil - 310	1	Gas - N 122	MCF	Water 43	-86 T	8 3 10 Gas 384	Oil Railo
Flow Tubing Press.	Ca	sing Pressure	I	liculated 24 sur Rate	Oil - Bbl.		Gas - MCF		Wate	er - Bbl.	Oil Gra ← 42.7	vity - AP1	-(Corr.)
34. Disposition of Ga	s (Sold	used for fuel, v	ented, etc.)								Witnessed B		
35. List of Attachment DEVIATION SURVE	Υ						Y. Jara 1 199)5			e H	Texaco obbs Ar	ea S
36 I hereby certify that the f	pregoing is	true and correct)_		_{TITLE} En	gr A	sst				DATE		4/18/95
SIGNATURE /	1/10	111 C <	nend !	,	+111 CE	٠. ٠							

TEXACO E & P INC.

SDE Federal 31 Well #5 Triste Draw West Lea County, New Mexico

Unit Letter B, 810' FNL, 1980' FEL Sec. 31, T-23S, R-32E



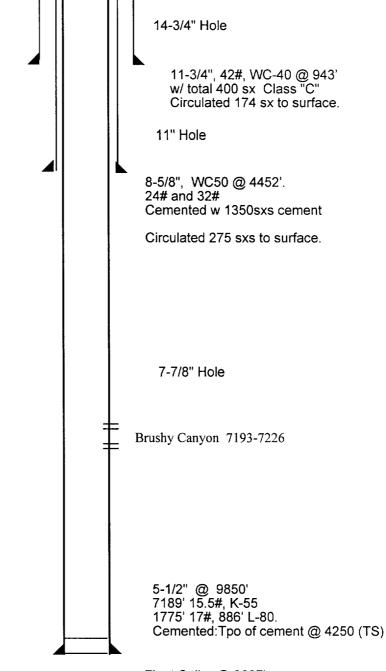
ANED	ATOR	' S	COL	7
OLEV	FORM	4PPR	OVED	

orm 3160-4		UE		VITED STA ENT OF T		BIOD	-		OFF		ORM APPR Bureau No	OVED	137
ctober 1990)				F LAND M			VED			Expire	s: Decemb	er 31, 19	101
JBMIT ORIGINAL W	ITH 5 C	OPIES			- <i>U</i>				5. Lease I	Designati	on and Seria		
(LCOM	DI E.	TION O	alpan	ONDLE	TIÂN I	DED A	dednia eta	00*	6. If India	n, Alottee	NN or Tribe Na	1 18848 m o	
····			<u> </u>		11 32			<u> </u>					
r. Type of Well: h. Time of Completic	WE		ar ≅ []	DRY [] C	THERARI ARE)E 38		7. 11 Unit 0	or CA, Ag	rooment De	signation	A
b. Type of Completio NEW WORK			PLUG 🗌	DIFF.					8. Well N				·
NELL OVER Name of Operator	·	N 1	BACK	RESVR.					SDE '31'	FEDER	AL		W-Sept.
THE TO ST SPORTS		TEXACO	EXPLOR	ATION & PI	RODUCTI	ON INC.			5				
Address and Telep	hone Na	P.O. BO	K 730, HO	BBS, NM 8	8240		397-0	418	9. API We	HI No.	30-025-3	2717	
Location of Well (R	eport lo	cation clearly	and in acco	ordance with a	any State re	quirements.	"		10. Field :	and Pool.	Exploratory		
Surface alt Letter B:	810	Feet From	The NO	RTH Lines	nd 1980	Feet Fr	om The EAST	Line	1		WE SPRING		тн
proposed prod. zon		1 0001 10111				,					L, or BLK. ar		
				SAME			•		Sec.	31 ,	Township	23-S,	Range 32-E
t Total Depth					14. Permit	No.	Date Issued		12. Count	-	sh	13. Sta	
5. Date Spudded	16.0	ate T.D. Read	hed	17. Date Com	ıpl. (Ready t	lo Prod.)	18. Elevations	(Show wt	l ether DF,R	LEA T, GR, e	lc.)	19. Ek	NM . ov. Casinhead
2/5/95		3/5/95			3/28/95				3R-3603*			<u> </u>	3603'
 Total Depth, MD & 10,005 	TVD	21. Plug I	Back T.D., 9894	MD & TVD	22, If Multi	iple Compl.,	How Many*	23, Inte Drilled		tary Tool: 0-10,0	1	CableTo	iols -
I. Producing Interval	(s), Of T	his Completio		ottom, Name	(MD and TV	/D)*				— <u>i</u>		ectional	Survey Made
18'-9044': SAND D	UNES; E	ONE SPRING	S, SOUTH									YES)
i, Type Electric and (-								ļ:	27. Was We		
R-DIL. GR-SDL-DSN B/ (1, GR-F1	7/3, GR		CASIN	IG RECO	ORD (Rep	ort all Strings	s set in v	well)	L		МО	
CAJING SIZE & GRAI	DE	WEIGHT	LB/FT.		EPTH SET	1	HOLE SE			MENT R	ECORD	AM	OUNT PULLED
5/8	2	4#		975		11	1		CL-C:	325 SX, C	ORC 16		
1/2	1	5.5# & 17		10,005		7	7/8		CL+14	1500 SX,	CIRC 100		
				-			·						
	$\neg \uparrow$								+				
9.			LINE	RECORD				3	0.	1	UBING RE	CORD	
SIZE	 	ТОР	ВС	MOTTOM	SACKS	CEMENT	SCREEN		SIZE		DEPTH:	SET	PACKER SET
	-		-				 	- 2	7/8*		9006		-
1. Perforation record	1 (interva	al, size, and n	umber)				32. AC	ID, SHOT	r, FRACT	URE, C	EMENT, SC	QUEEZ	E, ETC.
018'-9044'							DEPTH INT	ERVAL	+		OND ONA		IAL USED
							9018'-9044'		+		3 15% NEFE 3 GALS 35#		FXIG
							5010-5044	<u> </u>	+		00# 20/40 O		
										·			
3.		la	4.4. 4.			ODUCTIO					Wall Clas	us (Den d	l. or Shut-In)
zate First Production 3.	/28/95		-	xving, gas lift, 5" X 20' ROD		size and typ	e bawb)				PROD.	us (170d	. or onut-in)
ate of Test	Hours (lested	Choke S	ize	Prod'n For Test Period			Gas - MC	;F	Water -	- Bbl.	Gas	990AJIJ213147
i/25/95 low Tubing Press.	24 Ca	sing Pressure		Calculated 24			Gas - MCF	<u>' </u>	Water - B	<u> </u>	Oil Gra	1/129 Mr api	1-(Corr.)
			· ·	Hour Rate		<u>.</u>					42.7	4	JUN 1995
4 ion of Ga	is (Sold,	used for fuel,	vented, etc	:.)					:	1	Vitnessed B	א מא	Received
5. List of Attachmen						Ti	Lina					1	Texaco
EVIATION SURVE		true and correct	Λ				- 8 1995					160-	Hobbs Area
IGNATURE	71	bite /	Jan		TITLE_	Engr A	sst				DATE	150	5/4/95
YPE OR PRINT NA	ME		Monte (C. Dunca	n							- SSSSNE	अराज्यास्तर्भ

TEXACO E & P INC.

SDE Federal 31 Well #8 Triste Draw West Lea County, New Mexico

Unit Letter K, 1980' FSL, 1980' FWL Sec. 31, T-23S, R-32E



Float Collar @ 9807'

OPERATOR'S COPY

UNITED STATES FORM APPROVED m 3160-4 DEPARTMENT OF THE INTERIOR TO SIVE Budget Bureau No. 1004-0137 tober 1990) Expires: December 31, 1991 BUREAU OF LAND MANAGEMENT **GINAL WITH 5 COPIES** 5. Lease Designation and Serial No. NM 18848 WELL COMPLETION OR RECOMPLETION REPORT AND LOG' 6. If Indian, Alottee or Tribe Name . Type of Well; GAS 🗌 DRY OTHER OIL 🛛 7. If Unit or CA, Agreement Designation WELL WELL . Type of Completion: DEEPE PLUG [8. Well Name and Number DIFF. OTHER EW 🔯 WORK [**OVER** SDE '31' FEDERAL Name of Operator **TEXACO EXPLORATION & PRODUCTION INC.** Address and Telephone No. 9. API Well No. 397-0418 P.O. BOX 730, HOBBS, NM 88240 30-025-32867 Location of Well (Report location clearly and in accordance with any State requirements.") 10. Field and Pool, Exploratory Area Surface TRISTE DRAW; DELAWARE, WEST K: 1980 Feet From The SOUTH Line and 1980 Feet From The WEST Line il Letter 11. SEC., T., R., M., or BLK. and Survey or Area proposed prod. zone Township 23-S , Range 32-E SAME Total Depth Date Issued 14. Permit No. 13. State 12. County or Parish NM 17. Date Compl. (Ready to Prod.) . Date Spudded 16. Date T.D. Reached 18. Elevations (Show whether DF,RT, GR, etc.) 19, Eley, Casinhead 5/4/95 GR-3567', KB-3581' 3567 4/5/95 4/21/95 CableTools . Total Depth, MD & TVD 21. Plug Back T.D., MD & TVD 22. If Multiple Compl., How Many 23. Intervals Rotary Tools Drilled By --> 9850 9800 0-9850 . Producing Interval(s), Of This Completion - Top, Bottom, Name (MD and TVD)* 25. Was Directional Survey Made 93'-7226' :TRISTE DRAW; DELAWARE WEST YES T "ectric and Other Logs Run 27. Was Well Cored ą١ SONIC; GR-BHC SONIC CASING RECORD (Report all Strings set in well) AMOUNT PULLED CASING SIZE & GRADE WEIGHT LBJFT. DEPTH SET **HOLE SIZE** CEMENT RECORD 143/4 955 1 3/4 CL-C 550 SX, CIRC 174 5/8" 24# & 32# 4450 11 CL-H 1350 SX, CIRC 275 5- 1/2" 15.5 & 17# 9850 7 7/8 CL-H 1400 SX, CIRC 0 9 **TUBING RECORD** 30 LINER RECORD PACKER SET SIZE **BOTTOM** SACKS CEMENT **SCREEN** SIZE DEPTH SET TOP 2-7/8" 7235 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 1. Perforation record (interval, size, and number) **DEPTH INTERVAL** AMOUNT AND KIND MATERIAL USED 193'-7226'; BRUSHY CANYON 7193'-7226' ACID-2,000 GALS 7.5% NEFE 7193'-7226' FRACD W/7000 GALS LINEAR GEL W/ 8200# 100 MSH SD, 30# BORATE XLG W/ 25000# 16/30 RESIN COATED SD 3. PRODUCTION Well Status (Prod_or Shut-in) Production Method (Flowing, gas lift, pumping - size and type pump) Pale First Production PROD 5/4/95 PUMPING 2.5" X 1.75" X 24' 1000 Oil - Bbl. Choke Size Gas - MCF Hours tested Prod'n For Water - Bbl ale of Test Gas - Oil R **Test Period** 33 55 5/18/95 24 320 low T oil Gravity -Calculated 24-Oil - Bbl. 7 Press. Casing Pressure Gas - MCF Water - Bbl. Hour Rate Test Witnessed By 4. Disposition of Gas (Sold, used for fuel, vented, etc.) HOLLIS COX SOLD 5. List of Attachments DEVIATION SURVEY TITLE Engr Asst DATE GNATURE ---

Monte C. Duncan

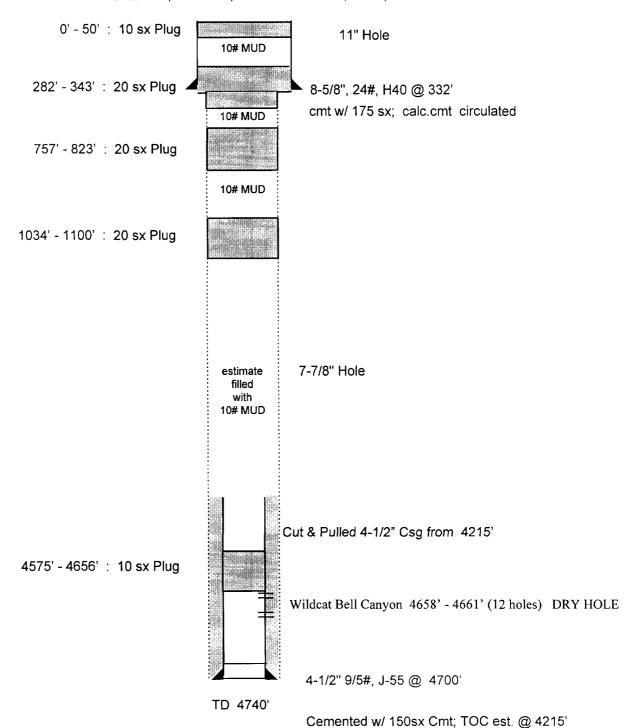
YPE OR PRINT HAME

DRY HOLE PLUGGED & ABANDONED WELL

Curtis Hankamer Contential Federal #1

Wildcat Lea County, New Mexico

Unit Letter M, 660' FSL, 660' FWL Sec. 31, T-23S, R-32E



MARK

If gas well, cu. ft, per 24 hours

HISTORY OF OIL OR GAS WELL

16-43994-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Drilled to 4740' TD. Set 42" casing @ 4700'. Perforated 4658' - 4661'

Plugged well as follows:

10 sxs - 4656' - 4575'
20 sxs - 1100' - 1034'
20 sxs - 823' - 757'
20 sxs - 343' - 282'
10 sxs in top of surface.

Installed 4" marker and cemented in top of surface. Pits and location have been cleaned and backfilled.

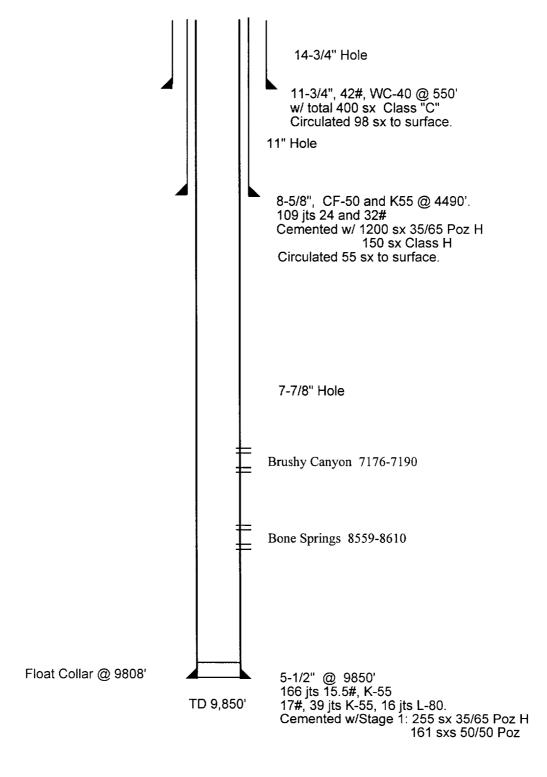
that is a second Configuration of the first and

TEXACO E & P INC.

SDE Federal 31 Well #14

Triste Draw West Lea County, New Mexico

Unit Letter N, 660' FSL, 1980' FWL Sec. 31, T-23S, R-32E



Form 3160-4 (October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budget Bureau No. 1004-0137 Expires: December 31, 1991

DeSolo/Nichols 10-94 ver 2.0

SUBMIT ORIGINAL WITH 5 COPIES									5. Lease D	5. Lease Designation and Serial No. NM-18848				
WELL COM	PLE	TION OR	REC	OMPLE	TION REP	OR ⁻	T AND LO)G*	6. If Indian	, Alotte	e or Tribe N			
1a. Type of Well:		DIL M GAS		DRY C	THER				7. If Unit o	r CA, A	greement De	esignation		
1b. Type of Completion NEW WORK WELL OVER	n: 		L LUG 🔯 ACK	DIFF. 🔀 RESVR.	OTHER				8. Well Na SDE '31'					
2. Name of Operator		TEXACO E	XPLOF	RATION & PE	RODUCTION INC	 C.		•	1					
3. Address and Teleph	none No	n.	-				397-04	442	9. API Wel	1 No.				
4. Leasting of Mall (De				OBBS, NM 8			397-04	443			30-025-	32915		
4. Location of Well (Re At Surface	ероп ю	cation clearly an	id in acc	ordance With a	ny State requireme	ents.")			1		ol, Explorator	•		
Unit Letter N:	660	Feet From Th	ne SC	OUTH Line a	nd 1980 Fe	et Fron	m The WEST	Line						
At proposed prod. zone	•								11. SEC., Sec. 3		M., or BLK. a Township	•	or Area Range 32-E	
				SAME						•		·		
At Total Depth					14. Permit No.		Date Issued		12. County	or Pa LEA	rish	13. State	» NM	
15. Date Spudded	16. [Date T.D. Reach	ed	17. Date Com	l pl. (Ready to Prod.)	18. Elevations	(Show w	vhether DF,R		etc.)	19. Elev	r. Casinhead	
5/16/95		6/1/95			11/24/95				GR-3563*	_	-		3563'	
20. Total Depth, MD & 9850'	TVD	21. Plug Ba	ack T.D., 8500	, MD & TVD	22. If Multiple Co	mpl., F	low Many*		ervals Rotary Tools I By> 0'-9850'			CableToo	ols	
24. Producing Interval(s	s), Of T	This Completion	- Top, E	Bottom, Name	(MD and TVD)*	-					25. Was D	irectional S	Survey Made	
26. Type Electric and C		ogs Run			,						27. Was W			
28.		 -		CASIN	IG RECORD (Repo	ert all Strings	s set in	well)					
CASING SIZE & GRAD	DE	WEIGHT L	B/FT.		EPTH SET	T	HOLE SIZ			/ENT	RECORD	AMC	OUNT PULLED	
11 3/4"		42#		550'	550' 14 3/4"					CCL C	CIR 98	CIR 98		
8-5/8"		24#, 32#		4454		11'	11" 1350 SX CL				<u> </u>			
5-1/2"		15.5#, 17#		9850		7-7	7/8"		416 SX	(CL H	, CIR O			
												ļ	<u> </u>	
29.			LINE	R RECORD					30.		TUBING F	RECORD		
SIZE	T	TOP	Τ.	воттом	SACKS CEME	NT	SCREEN		SIZE		DEPTH	1 SET	PACKER SET	
NONE									2 7/8"		6993'			
24 B (- 1)	16-1		h\		<u> </u>		32. AC	ID SHO	OT, FRACTI	JRE (CEMENT S	SOUFFZI	E ETC.	
31. Perforation record 7176-7192,2 JSPF, 28	•		iibei)			ŀ	DEPTH INT				NT AND KIN			
7170 7102 2 001 7 2						Ţ	7176-7192'		A/1500g	7.5%,1	500g12%/3%	HCL/HF		
									F/6200g3	0#, 170	00# SD			
33.					PRODUC	ירורי	NI							
Date First Production		Production Me	ethod (F	lowing, gas lift	, pumping - size an						Well Sta	-	or Shut-in)	
Date of Test	Date of Test Hours tested Choke Siz		Size	ze Prod'n For C		Bbl. Gas - MCI		CF Water - Bbl.		er - Bbl.	Gas - Oil Ratio			
12/5/95 Flow Tubing Press.		asing Pressure		Calculated 24 Hour Rate	- Oil - Bbl.		Gas - MCF	l	Water - Bl		Oil Gr 45.8	ravity - API	-(Corr.)	
34. Disposition of Ga	s (Sold	I, used for fuel, v	ented, e	itc.)			1		1		Witnessed	Ву		
35. List of Attachmen	ıts													
36. I hereby certify that the fi					TITLE Cle	erk					ΠΔΤΙ	=	2/2/96	
SIGNATURE			J And	gie Davi la	11166					<u>.</u>				
TYPE OR PRINT NA	WIC	_ "	• i. z vit	gio Davila								D . D . L . A.P	1-10-01	

DRY HOLE PLUGGED & ABANDONED WELL

Curtis Hankamer Bondurant-Federal #1 Wildcat Lea County, New Mexico

10# MUD

Unit Letter B, 660' FNL, 1980' FEL Sec. 6, T-24S, R-32E

0' - 32' : 10 sx Plug @ Surface

11" Hole

250' - 375' : 40 sx Plug @ Bottom of Casing

8-5/8", 24# & 32#, H40 @ 350' cmt w/ 200 sx; .cmt circulated

10# MUD

1175' - 1300' : 40 sx Plug @ Top of Salt

estimate filled with 10# MUD 7-7/8" Hole

DRY HOLE

4670' - 4796' : 40 sx Plug @ bottom of hole

TD 4,796'

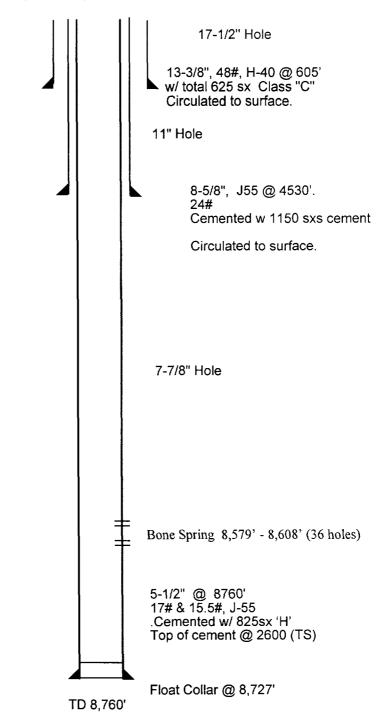
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Sante Fe Energy Resources, Inc.

Mesa Verde '6' Federal #7 Mesa Verde Bone Spring Lea County, New Mexico

Unit Letter B, 660' FNL, 2540' FEL Sec. 6 , T-24S, R-32E



Expires: February 28, 1995 DEPARTMENT OF THE INTERIOR (See other in-structions on I FASE DESIGNATION AND SERIAL NO BUREAU OF LAND MANAGEMENT NM-77064 6. IF INDIAN, ALLOTTEE OR TRIBE NAME **WELL COMPLETION OR RECOMPLETION REPORT AND LOG*** 7. UNIT AGREEMENT NAME 1s. TYPE OF WELL: METT X WELL DRY Other b. TYPE OF COMPLETION: PLUG D OVER DEEP. MET X RESVR Other 8. FARM OR LEASE NAME, WELL NO. Mesa Verde "6" 2. NAME OF OPERATOR Santa Fe Energy Resources, Inc. Federal No. 3. ADDRESS AND TELEPHONE NO. 30-025-32613 550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551 10. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL. (Report location clearly and in accordance with any State requi Mesa Verde (B), 660' FNL & 2540' FEL, Sec. 6, T-24S, R-32E Bone Spring 11. SEC, T., R., M., OR BLK AND SURVEY OR AREA Sec. 6, T-245, R-32E At total depth ; 14. PERMIT NO. 12. COUNTY OR PARISH Lea 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 19. ELEV. CASINGHEAD 11/22/95 12/29/95 12/6/95 3568' GR 22. IF MULTIPLE COMPL. 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD HOW MANY N/A 23. INTERVALS DRILLED BY CABLE TOOLS ROTARY TOOLS 8760' 8714 A11 N/A 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD) 25. WAS DIRECTIONAL SURVEY MADE 8579'-8608' (Bone Spring) No 26. TYPE ELECTRIC AND OTHER LOGI RUN 27. WAS WELL CORED DIL: SDL/DSN/GR No 28. CASING RECORD (Report all strings set in well) CASING SIZE/GRADE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE TOP OF CEMENT, CEMENTING RECORD AMOUNT PULLED 13-378" H-40 17-172 48.0 605 625 sx Lite & C (circ'd) None 8-5/8" J-55 24.0 4530 11" 1150 sx POZ & C (circ'd) None 5-1/2" J-55 7-7/8 825 sx Lite & H (TOC 2600 None 17.0 & 15.5 8760 LINER RECORD **TUBING RECORD** 29. SACKS CEMENT* SCREEN (MD) DEPTH SET (MD) PACKER SET (MD TOP (MD) BOTTOM (MD) N/A 4642 8491 2-7/8" 8491' N/A 8491 TD PERFORATION RECORD (Internal, size and num 8579'-8608' (36 holes) ACID. SHOT. FRACTURE, CEMENT SQUEEZE, ETC. RVAL (MD) AMOUNT AND KIND OF MATERIAL USES DEPTH INTERVAL (MD) 8579'-8608 Frac w/46,000 gal gel & 143,361# 20/40 Ottawa sand and 24,240# resin coated snd PRODUCTION WELL STATUS (Producing or shul-in) Droducin DATE PIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Producing 12/21/95 Flowing GAS - MCP. GAS - OIL RATIO DATE OF TEST HOURS TESTED CHOKE SIZE PROD'N, POR OIL - BBI. WATER - BBL. TEST PERIOD 1/4/96 24 15/64" 170 324 0 1906 CALCULATED 24-HOUR RATE PLOW, TUBING PRESS CASING PRESSURE GAS - MCP. WATER - BBL OIL GRAVITY - API (CORR.) 900 170 324 0 42.0 450# 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Sold 35. LIST OF ATTACHMENTS C-104, Deviation Survey, Logs _{DATE} 1/26/96 Ince Sr. Production Clerk SIGNE 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 jurisdicton. \mathcal{M}^{I} 46 I hereby certify that the rules of the Oil Conservation Division have been OIL CONSERVATION DIVISION complied with and that the information given above is true and complete to the best of my knowledge and belief. Approved by: ORIGINAL SIGNED BY JERRY SEXTON Signature: Printed name: DISTRICT I SUPERVISOR Title: Terry McCullough Approval Date: Sr. Production Clerk Phone: 915/687-3551 Date: June 7, 1995 ntor fill in the OGRID number and name of the previous operator Betty Gildon 47 If this is a mange of ope Reg. Analyst sottu

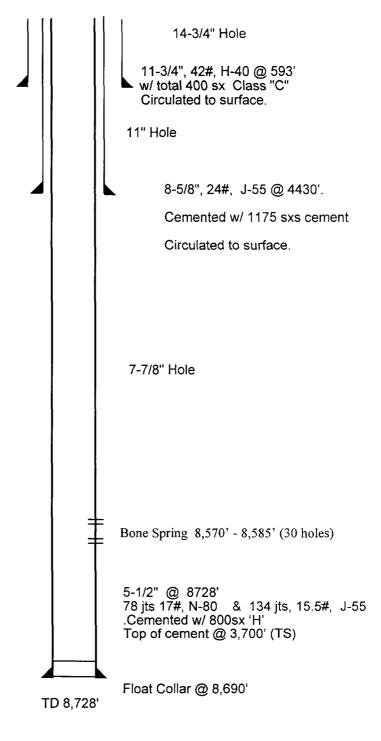
Printed Name

Provious Operator Signature
Enron Oil and Gas Company #7344

Sante Fe Energy Resources, Inc.

Mesa Verde '6' Federal # 14 Mesa Verde Bone Spring Lea County, New Mexico

Unit Letter C, 330' FNL, 1650' FWL Sec. 6, T-24S, R-32E



Printed Name

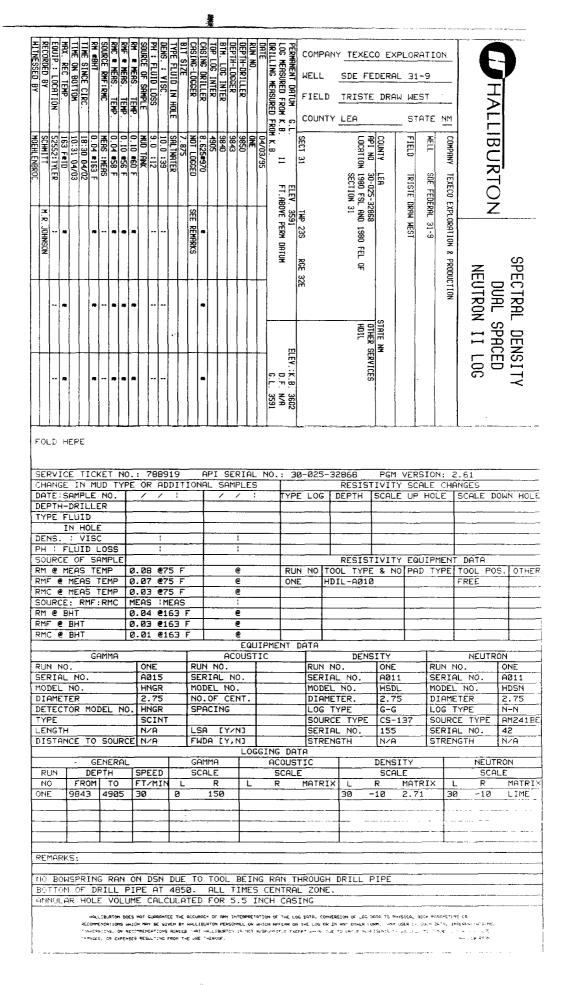
Title

Date

Previous Operator Signature

B) ADDITIONAL GELOGICAL INFORMATION

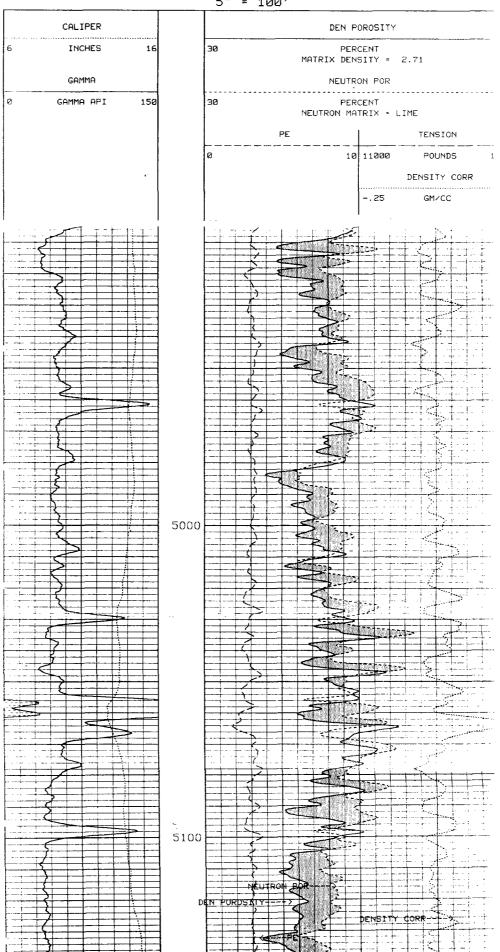
- Well Log, Mud Log of proposed disposal interval
- Water Analysis of produced waters

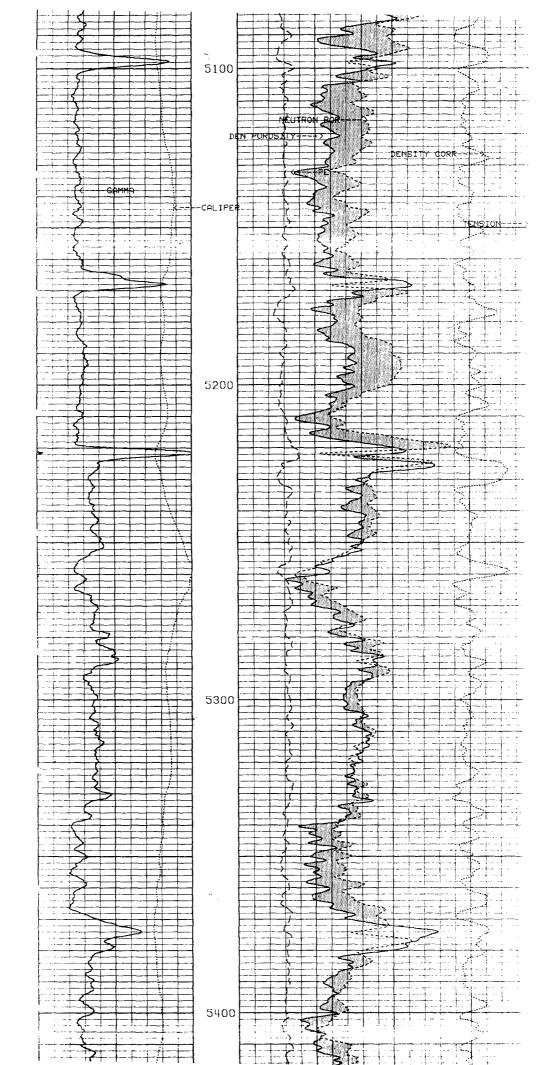


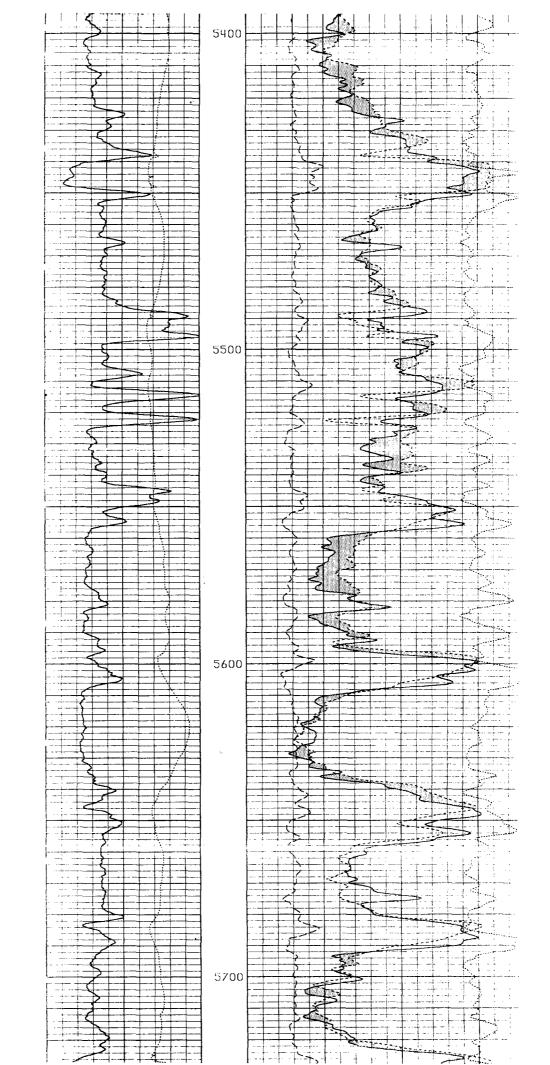
5" = 100'

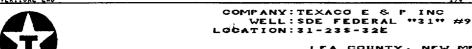
	CALIPER			DEN POROSITY	
6	INCHES	16	30	PERCENT MATRIX DENSITY = 2.71	10

5" = 100'



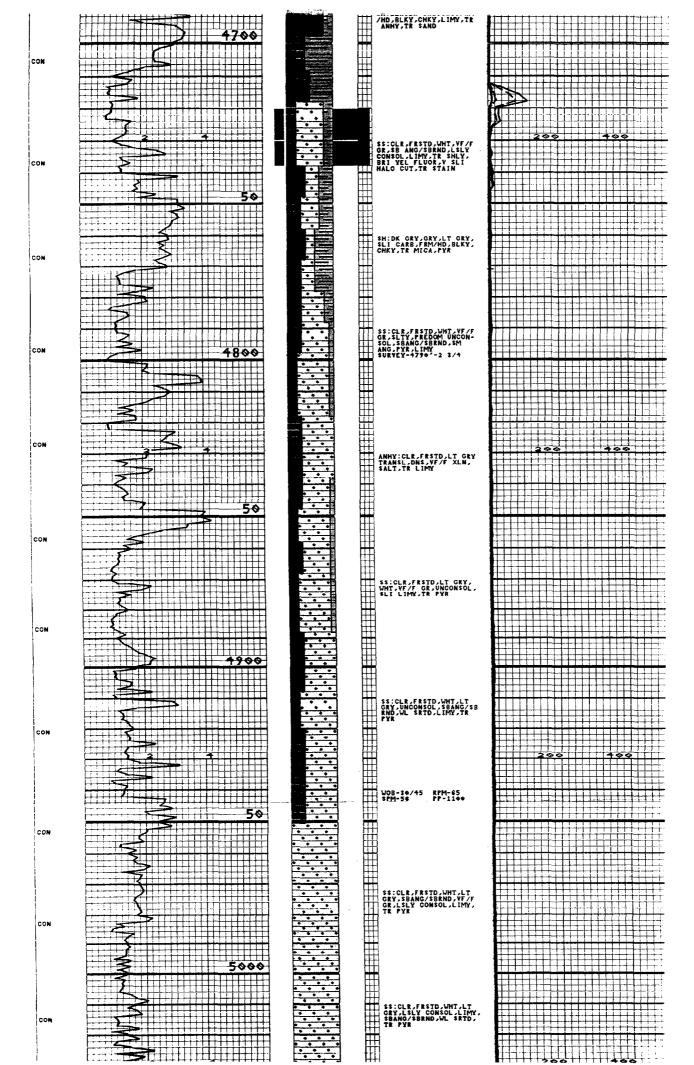


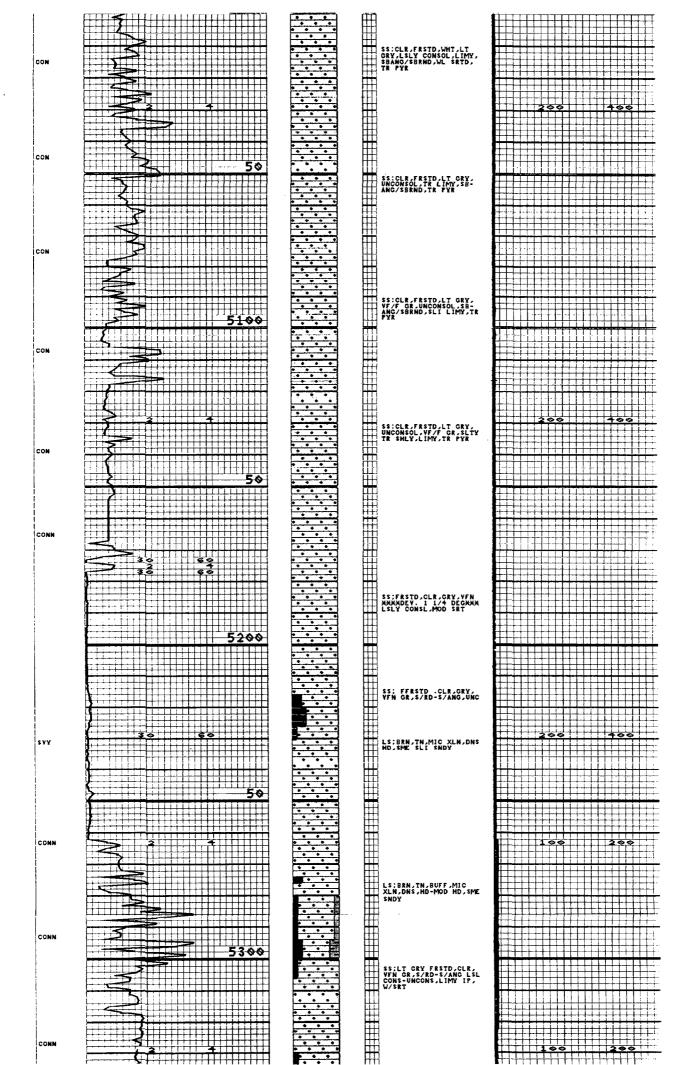


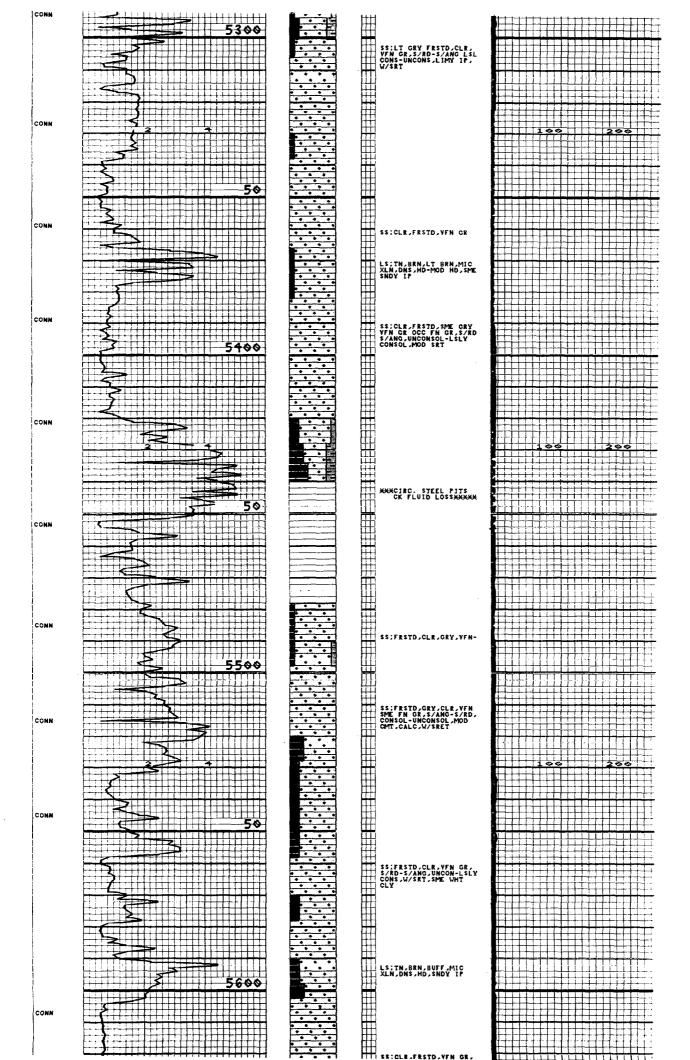


LEA COUNTY, NEW MEXICO
LOGGED BY TECHNICAL DRILLING SERVICES
GEOLOGISTS:DAVID STINECIPHER AND B.BELL/TOM ROF
ELEV: G. L.: ØR. K. B.: Ø
INTERVAL LOGGED: 4500 TO 9850
DATES LOGGED: 3/17/1995 TO 4/ 1/1995

00	t - NO RETURNS DC - DEPTH CORRECTI C - CONN GAS NB - NEW BIT D - CIRC OUT NCB - NEW CORE BIT C - TRIP GAS DC8 - DIAMOND CORE ST - DRILL STEM TEST DS - DIRECTIONAL SU	BIT		and the s	SAN Lim	E XXX CONGLO	GAS CHROMATOGRAPH ANALYSIS TOTAL GAS -
MECH DATA	DRILLING RATE MIN/FT OR FEET/HR		ITH		TU	LITHOLOGY DESCRIPTIONS	HYDROCARBON ANALYSIS LOG
COM						START TWOMAN LOGGING AT 1500' ON 3/17/95 SURVEY-1198'-3 3/1DEG SURVEY-1548-3 DEC. WOB-30 RPM-65 STM-96 FF-1100 WT-100 VIS-28 SIT M4 7 7/RM WMC 52CHF 3-11 JET IN AT 1136'	290 490
CON	50			H	H	ANNY:WHT.FRSTD.TRANSL DNS.MICRO/F XLN.TR LIMY	
CON						LS:CLR.WHT.FRSTD.VF/F XLN,FRM/HD,SLEY,AMHY, SALT,TR REDBED SHALE	
CON	1600					ANNY:CLE,WHT,FESTD,Y TRANSICTRANSF,FRM/HD, DNE,MRGO/F XLM, *ALT, TR LIMP	280 400
CON	5.					LS:CRM.LT GRY.OFF WHT CLR.VF.FT X.N.FRM.HD. BLKY.CHKY.ANMY	
CON			200			SURVEY 1630' 2 3/1DEG	
CON	4700					SH:BLK.DK.GKY.CRY.FRM /MD.BLKY.CRKY.LIMY.TR ANMY.TR'SAND	
COM	7 1 1 2 3 4 5 8 5 8			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		SS:CLR,FRSTD,WHT,VF/F GR,SB ANG/SBRND,LSLY GONSOL,IMY,TR SHLY, BRI YEL FLUOR,Y SLI MALO GUTTR STAIN	200 400
CON			ABARABO.			SH:DK GRY,GRY,LT GRY, SLI CARB,FRM/HD,BLKY, CHKY,TR MICA,PYR	







Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Texaco Inc. Company: 12-9-1994 Date :

Location: SDE - 31#2 (on 12-9-1994)

Sample 1 Specific Gravity: Total Dissolved Solids: 1.076 106309 pH: 6.73 IONIC STRENGTH: 1.955

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	176	3520
Magnesium	(Mg+2)	44.0	535
Sodium	(Na+1)	1600	36700
Iron (total)	(Fe+2)	17.9	500
ANIONS:			
Bicarbonate	(HCO3-1)	19.0	1160
Carbonate	(CO3-2)	0	0
/'''droxide	(OH-1)	0	0
(fate	(SO4-2)	49.4	2380
Cnioride	(C1-1)	1750	62000
DISSOLVED GASES			
Carbon Dioxide	(CO2)		50.0
Hydrogen Sulfide	(H2S)		0

SCALING INDEX (positive value indicates scale) Calcium

		Calcium	Calcium
Temp	erature	Carbonate	Sulfate
86[F -	30[C	0.66	-10
110[F	43 [C	1.4	-10
130 F	54 [C	1.7	-10
140[F	60 ĈC	1.9	-10
160[F	71 [C	2.3	-6.4

Comments:

cc: Isaac Huskey

Joe Hay Bob Wallace - Tech Service

Ι

- C) PROOF OF NOTIFICATION TO:
 - SURFACE OWNER
 - OFFSET OPERATORS

P 622 713 430

US Postal Service

Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Sent to Sund File Sund 1330

Street & Number Sund 1330

Post Office, State, & ZIP Code
Mulerd Postage \$ 0.93

Certified Fee

Special Delivery Fee

Restricted Delivery Fee

Return Receipt Showing to Whom & Date Delivered

Return Receipt Showing to Whom, Date, & Addressee's Address

(QTAb Postage & Fees

Fostmark of Date

P 622 713 429

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

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[Sept to

JREAU OF LAND MANAGEMENT PO. BOX 1778 CARLSBAD, N.M. 88220-1778

ベレマ	DAD, N.IVI. OC	220-1770
	Postage	SPS TOPS
	Certified Fee	1. 00
	Special Delivery Fee	
,0	Restricted Delivery Fee	
April 1995	Return Receipt Showing to Whom & Date Delivered	1.00
	Return Receipt Showing to Whom, Date, & Addresse's Address	4
800	TOTAL Postage & Fees	89.5 /
PS Form 3800 ,	Postman Pate With	
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D) PROOF OF LEGAL NOTICE	

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, Kathi Bearden
Publisher
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.
of
1 weeks.
Beginning with the issue dated
February 29, 1996
and ending with the issue dated
February 29 ,1996
Lasi Barces
Publisher Sworn and subscribed to before
me this day of
<u>Smarah</u> , 1996
Notary Public.
My Commission expires March 24, 1998

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

(Seal)

LEGAL NOTICE February 29, 1996

Notice is hereby given of the application of Texaco Exploration & Production Inc., (Attention: Terry L. Frazier, Area: Manager, P.O. Box 730, Hobbs, New Mexico, 88240, Telephone (505) 393-7191), to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval of the following well(s) to be converted to salt water disposal for the purpose of disposing of produced fluids.

Lease / Unit Name: SDE '31'
FEDERAL

Texaco E & P inc. plans to convert the subject well to a salt water disposal well (using a single string of tubing) in the Bell Canyon formation in the following well(s):

Well Number(s) and Locations(s):

3 - Unit Letter J. 1980' FSL & 1980' FEL. Section 31. T-23-S. R-32-E

Lea County, New Mexico

The disposal formation is the Bell Canyon at a depth from 4600 feet to 5500 feet below the surface of the ground. Expected maximum injection rate is 3000 barrels per day and expected maximum injection pressure is 920 pounds per square inch. This work is part of an ongoing development project. Interested parties must file objections or requests for hearing with the Oil Conservation Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication. #14420



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

3/6/9k

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GOVERNOR

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 RE: Proposed:
MC
Gentlemen:
I have examined the application for the:
Texaco EAP Inc SDE 3) Federal "9-J 31-235-326 Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:
OK
Yours very truly, Jerry Sexton Supervisor, District 1

FORM G-400 (3-86)



FAX TRANSMITTAL COVER SHEET

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 3 18 96 XURGENT DROUTINE NO. OF PAGES 7+C
MESSAGE TO: Ben Stonle - OCD
TELEPHONE NO FAX MACHINE NO
DEPT,/DIV./SUBS.
LOCATION ROOM NO
MESSAGE FROM: Michael Alexander
TELEPHONE NO. 505 397 -0419 FAX MACHINE NO. 505 397 - 0450
DEPT./DIV./SUBS.
LOCATION Hobbs, NM ROOM NO
SENDING DEPT. APPROVALTIME TRANSMITTED
☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL ☐ RETURN ORIGINAL CALL SENDER TO PICK UP
ADDITIONAL COMMENTS:
Revised copy of SDE 31 #9 Schematic
Revised copy of SDE 31 * 9 Schematic and C-10B application (Single page revision)

[REVISED PAGE 3/18/96]

VI. TABULATION OF DATA ON WELLS WITHIN AREA OF REVIEW (continued)

To date, the following wells within a half mile radius of the proposed salt water disposal well injection wells have been plugged and abandoned:

T-23-S. R-32-E

Section 31 : well(s) : Curtis Hankamer; Continental Fed #1

T-24-S, R-32-E

Section 6 : well(s) : Curtis Hankamer; Bondurant-Federal #1

VII. PROPOSED OPERATION

The proposed completion within the SDE '31' Federal wellbore will be in the Bell Canyon interval with selective perforations between 5150' and 5700'. The packer will be placed within approximately 50' to 100' of the top perforation. The tubing will be internally plastic coated. The proposed maximum salt water disposal rate is expected to be 3,000 BWPD. The initial disposal rate is expected to be 500 BWPD. Maximum injection pressure will not exceed 920 psig (0.2 psi/ft OCD allowable rate) until a step rate test establishes a higher limit. Injected fluids will be produced fluids from the Brushy Canyon and Bone Spring intervals. These zones and the proposed injection interval (Bell Canyon) all contain saline waters with total dissolved solids (TDS) and salinity above 10,000 ppm (mg/l). No current recent chemical analysis of the disposal zone is available within the adjacent area, but produced test samples all had TDS and salinity above 10,000 ppm. The system will be closed.

VIII. GEOLOGICAL DATA

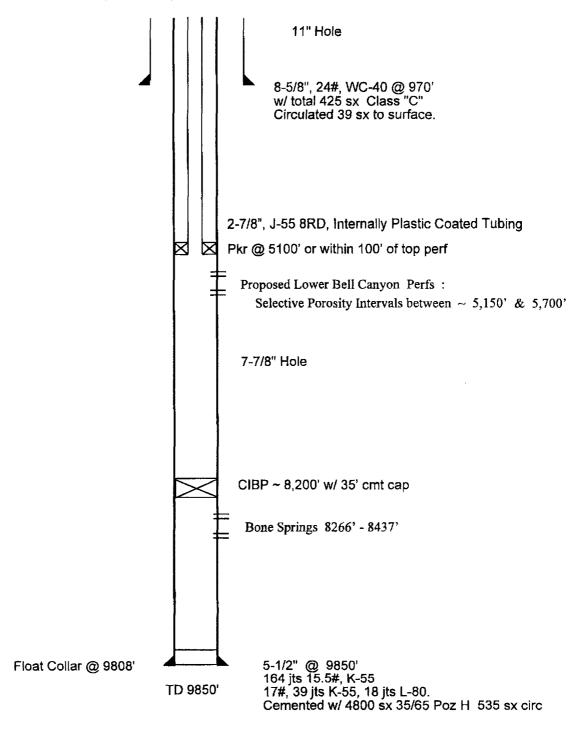
The injection interval consists of an interbedded, fine to medium grain sorted sandstone reservoir. The saturation within the reservoir show a low oil saturation which is non-mobile making the formation non-commercial. The Bell Canyon interval has a total thickness of approximately 1400' within the subject area. It overlays the Cherry Canyon (non-productive) and the Brushy Canyon and Bone Spring intervals which are the productive interval within the subject area.

The known sources of fresh water within the subject area exist from approximately 30' to 800' deep. Based on a current geological and

C-108 APPLICATION REVISED 3/18/96 HI. PROPOSED DISPOSAL WELL TEXACO E&P INC., SDE FEDERAL '31' LEASE

SDE Federal 31 Well #9 Triste Draw West Lea County, New Mexico

Unit Letter J, 1980' FSL, 1980' FEL Sec. 31, T-23S, R-32E



TO: New Mexico Oil Conservation Division

This letter indicates our approval of Texaco Exploration and Production Inc., submitted C-108 application on the following lease.

WAIVER TO OBJECTION

from

Santa Fe Resources inc. 500 West Texas Ave. Midland, Texas 79701

to

Texaco Exploration & Production Inc.'s C-108 Application (Application for Salt Water Disposal), Texaco SDE '31' Federal Well No. 9 Bell Canyon Formation (5150' - 5700') Unit Letter J. 1980' FSL and 1980' FEL Section 31, Township 23S, Range 32E

I do hereby waive any objection to Texaco Exploration and Production Inc.'s request for NMOCD Administrative Approval of the C-108 application for salt water disposal on the SDE '31' Federal Lease, Well #9, as outlined in the revised application package (revisions : second page, Section VII and SDE '31' Federal #9 well schematic).

Signed:

Title:

Company:

Date:

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

N.M. OIL CONS. COMMISSION

P.O. BOX 1980-ORM APPROVE 240
HOBBS NEW MEMORY No. 1004-0135 Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS	5. Lease Designation and Serial No. NM-18848
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.	6. If Indian, Alottee or Tribe Name
Use "APPLICATION FOR PERMIT" for such proposals	
SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well: OIL GAS OTHER	8. Well Name and Number SDE 31 FEDERAL LEASE
Name of Operator TEXACO EXPLORATION & PRODUCTION INC.	
3. Address and Telephone No. 205 E. Bender, HOBBS, NM 88240 397-0418	9. API Well No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description (BATTERY LOCATION)	10 Field and Book Euplessature Aven
Unit Letter F : Feet From The Line and Feet From The	10. Field and Pool, Exploaratory Area SAND DUNES; BONE SPRING, SOUTH Triste Draw; Delaware, West
Line Section 31 Township 23-S Range 32-E	11. County or Parish, State LEA , NM
12. Check Appropriate Box(s) To Indicate Nature of Notice, Re	
TYPE OF SUBMISSION TY	PE OF ACTION
Abandonment	Change of Plans
Notice of Intent	New Construction
	Non-Routine Fracturing
Subsequent Report Casing Repair Atlering Casing	Water Shut-Off
Final Abandonment Notice	Conversion to Injection
○ OTHER: CHANGE SWD SYST	[M Dispose Water (Note: Report results of multiple completion on Welf
	Completion or Recompletion Report and Log Form.)
	TEXACO EXPLORATION & PRODUCTION INC DELAWARE, WEST POOL BONE SPRING, SOUTH IK BATTERY LOCATED IN UNIT LETTER F, M THE BATTERY DOWN AS POLY LINE TION 31, T-23-S, R-32-E, LEA COUNTY, N.M.
14. I hereby certify that the foregoing is true and correct SIGNATURE SIGNATURE TITLE Engr Asst TYPE OR PRINT NAME Monte C. Duncan (This space for Federal or State office use) APPROVED BY Johns C. Common TITLE Lead AET	DATE 5/28/96 DATE 6/19/9 C
CONDITIONS OF APPROVAL, IF ANY: * See Attached COA	nd States any false fictitions or frontillant state.
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 Unite representations as to any matter within its jurisdiction.	or oracle any raise, nominous or transment statements of

BUREAU OF LAND MANAGEMENT CARLSBAD RESOURCE AREA

Disposal of Produced Water From Federal Wells

Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Oil and Gas Order No. 7.
- This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. All aboveground structures on the lease shall be painted sandstone brown, Federal Std. 595-20318, or 30318, within 90 days if you have not already done so.
- Any on lease open top storage tanks or pits shall be covered with a wire screen or plastic/nylon netting to prevent entry by birds and other wildlife.
- 7. This approval does not constitute right-of-way approval for any off lease activities. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.

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