

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: TEXACO E+P/IN. Well: SOE '31' Fed No. 9
Contact: MICHAEL ALEXANDER Title: ENG. Phone: 505-397-0419
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~~

Y **SALT WATER DISPOSAL** Commercial Well

~~WIPP~~ Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd NO

AREA of REVIEW WELLS

9 Total # of AOR 2 # of Plugged Wells
YES Tabulation Complete YES Schematics of P & A's
YES Cement Tops Adequate NO AOR Repair Required

INJECTION FORMATION

Injection Formation(s) Bend/Spring Bell Canyon Compatible Analysis YES
Source of Water or Injectate AREA PRODUCTION

PROOF of NOTICE

✓ Copy of Legal Notice Information Printed Correctly
✓ Correct Operators Copies of Certified Mail Receipts
YES Objection Received Set to Hearing Date

NOTES: OBJECTION SATISFIED - SANTA FE ENERGY NEGOTIATED INJ. INTERVIEW
AND FAX WAIVER. ATTACHED.

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<u>✓</u> Telephoned	<u>Letter</u> <u>3-18</u> Date	Nature of Discussion <u>OBJECTION</u>
2nd Contact:	<u>✓</u> Telephoned	<u>Letter</u> <u>4-1</u> Date	Nature of Discussion <u>WAIVER BY S.F.</u>
3rd Contact:	<u>Telephoned</u>	<u>Letter</u> <u> </u> Date	Nature of Discussion <u> </u>

DNC 1/99



SWD 3-20-96
DIVISION
621
52

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 NMOC 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 - NMOC; Hobbs, New Mexico
Gary Gourley - BLM; Roswell, New Mexico

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Texaco Exploration & Production Inc.
Address: P.O. BOX 730 Hobbs, New Mexico 88240
Contact party: Michael Alexander Phone: (505) 393 - 7191
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *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 with this application is true and correct to the best of my knowledge and belief.
- Name: Michael Alexander Title: Production Engineer
Signature: Michael P. Alexander 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 packer 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.

3-01-96

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

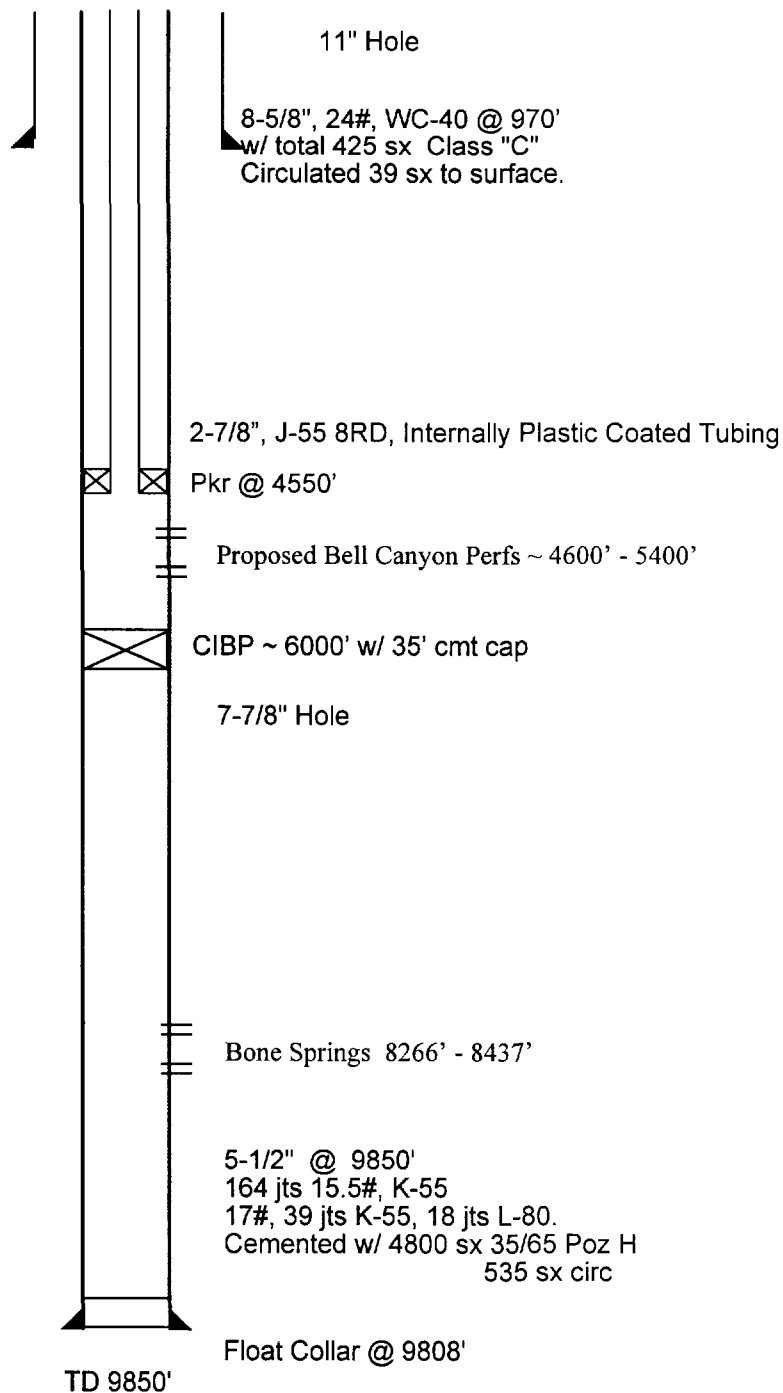
SURFACE OWNER : BUREAU OF LAND MANAGEMENT (BLM)
P.O. BOX 1778
CARLSBAD, NEW MEXICO 88220

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY

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

ORIGINAL WITH 5 COPIES

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

May 8 8 49 AM '95
CARL

Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		Type of Completion: NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF. <input type="checkbox"/> OTHER <input type="checkbox"/>	
Name of Operator: TEXACO EXPLORATION & PRODUCTION INC.		Well Name and Number: SDE '31' FEDERAL	
Address and Telephone No.: P.O. BOX 730, HOBBS, NM 88240 397-0418		API Well No.: 30-025-32868	
Location of Well (Report location clearly and in accordance with any State requirements.): Surface Letter J : 1980 Feet From The SOUTH Line and 1980 Feet From The EAST Line proposed prod. zone SAME		10. Field and Pool, Exploratory Area TRISTE DRAW ; DELAWARE, WEST	
Total Depth		14. Permit No.	12. County or Parish LEA
Date Spudded 3/11/95		Date Issued 4/22/95	13. State NM
16. Date T.D. Reached 4/1/95		17. Date Compl. (Ready to Prod.) 4/22/95	18. Elevations (Show whether DF, RT, GR, etc.) GR-3591'
19. Elev. Casinhead 3591'		20. Producing Interval(s), Of This Completion -- Top, Bottom, Name (MD and TVD)* 866'-8437': TRISTE DRAW; DELAWARE, WEST	
21. Plug Back T.D., MD & TVD 9574'		22. If Multiple Compl., How Many*	
23. Intervals Drilled By --		24. Was Directional Survey Made YES	
25. Time Electric and Other Logs Run DL, GR-DIL, GR-CBL		26. Was Well Cored NO	

CASING RECORD (Report all Strings set in well)					
CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
5/8	24#	970'	11	CL-C 425 SX, CIRC 39	
1/2	17#	9850'	7 7/8	CL-H 4800 SX, CIRC 535	

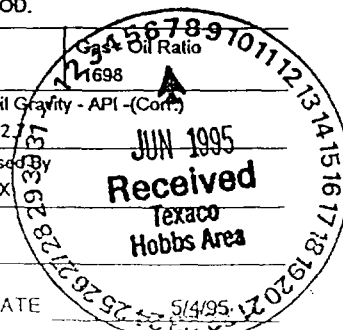
LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	8448'	-

31. Perforation record (interval, size, and number) 8266'-8298'; 8413'-8437' (112 HOLES)				32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
				8266'-8437'	ACID - 2000 GALS 15% NEFE HCL		
				8266'-8437'	FRACD W/ 35,000 GALS 30# BORATE XLG		
					CARRYING 134,000# 20/40 OTTOWA SAND		
					& 24,000# 16/30 RESIN COATED SAND		

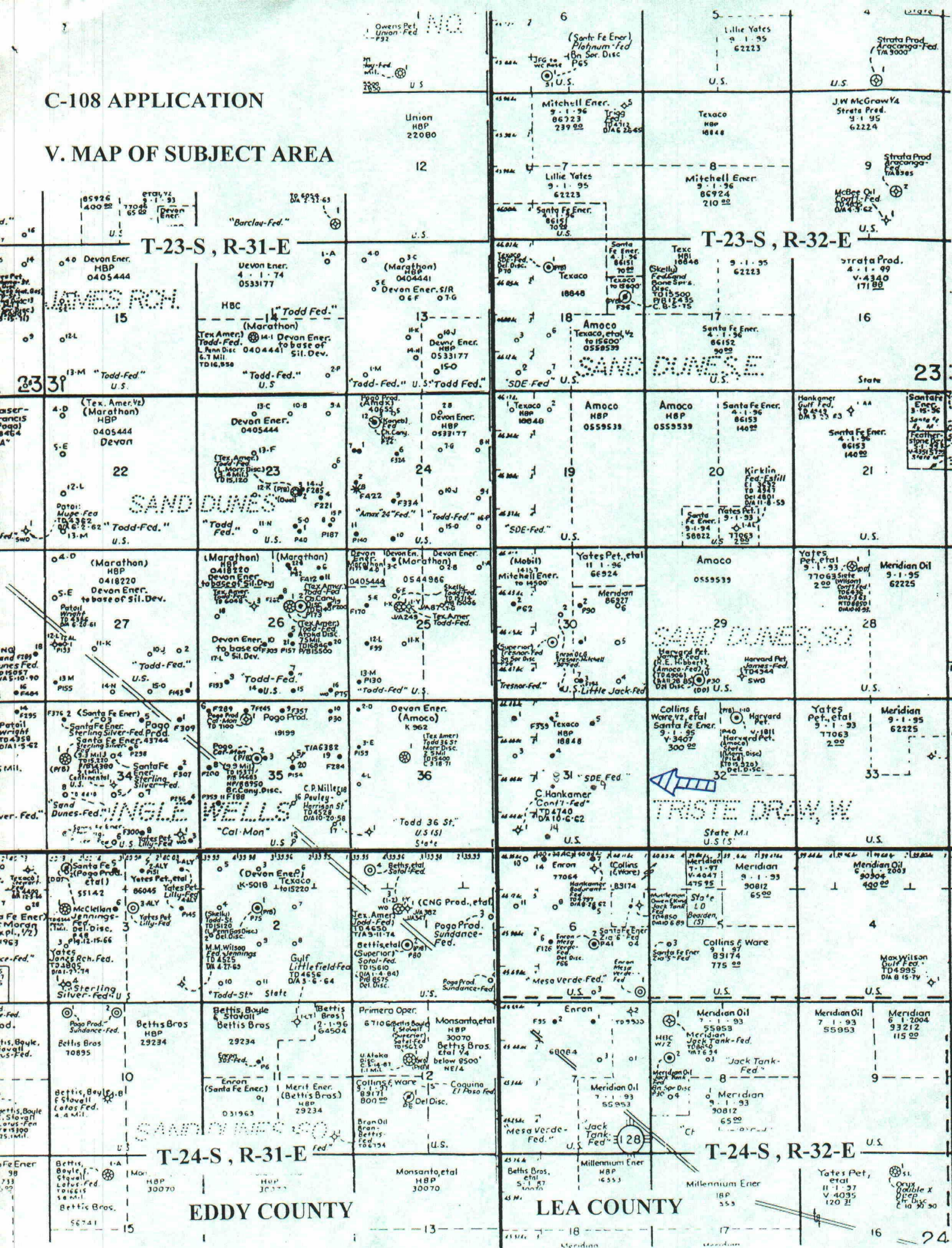
PRODUCTION							
Date First Production 4/22/95		Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING 2.5" X 1.75" X 20' ROD PUMP				Well Status (Prod. or Shut-In) PROD.	
Date of Test 4/26/95	Hours tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 86	Gas - MCF 146	Water - Bbl. 346	Gas/Oil Ratio 1698
Flowing Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Conn.) 42.7	

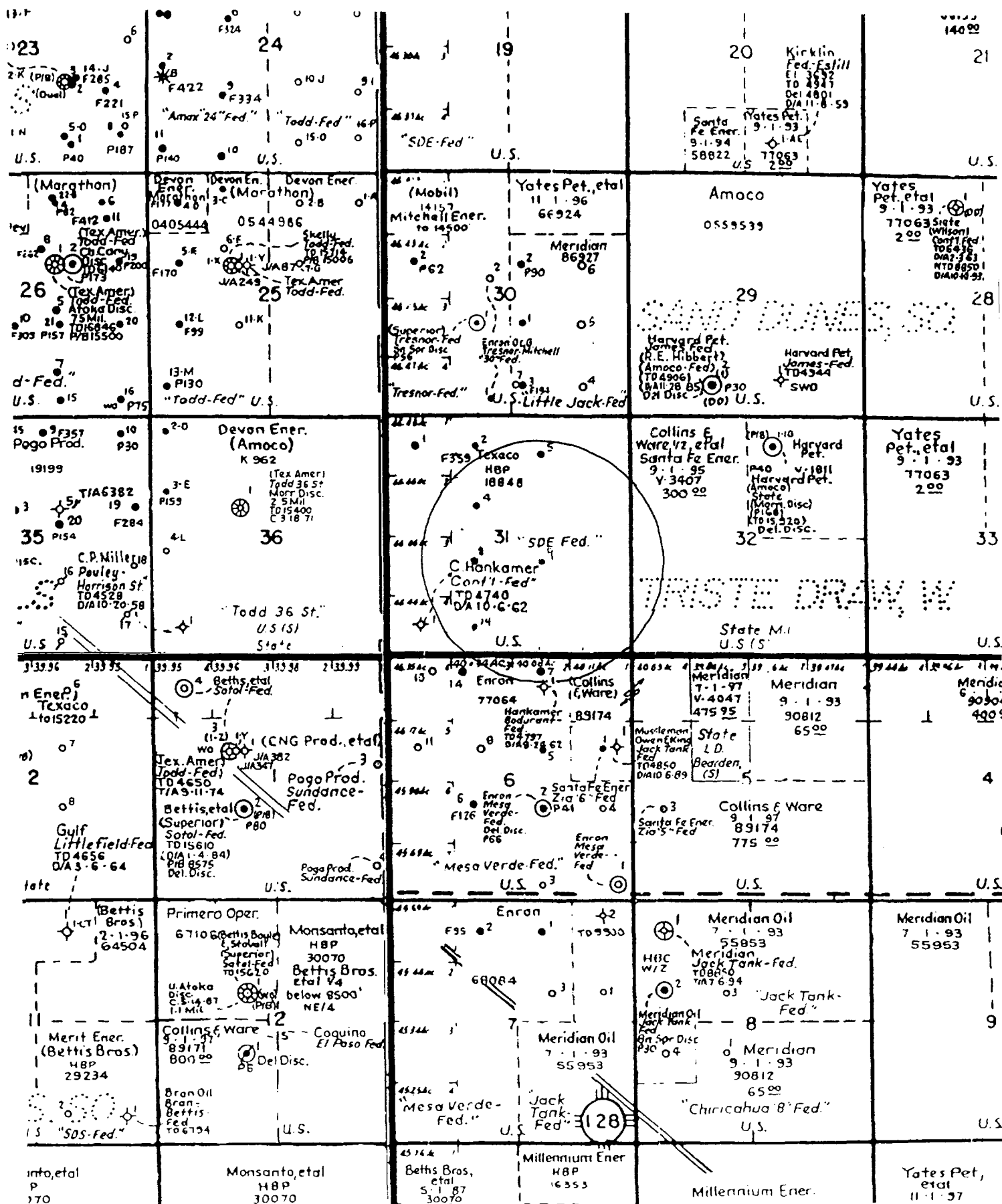
34. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD				35. List of Attachments DEVIATION SURVEY			
36. I hereby certify that the foregoing is true and correct.				37. Test Witnessed By HOLLIS COX			

SIGNATURE: *Monte Duncan* TITLE: Engr Asst
DATE: 5/4/95
TYPE OR PRINT NAME: Monte C. Duncan



V. MAP OF SUBJECT AREA





SCALE : 1" = 2,800'

ATTACHMENTS

A) DATA ON WELLS IN AREA OF REVIEW

- Schematics & Completion Reports**

B) ADDITIONAL GEOLOGICAL INFORMATION

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

C) PROOF OF NOTIFICATION TO :

- SURFACE OWNER**
- OFFSET OPERATORS**

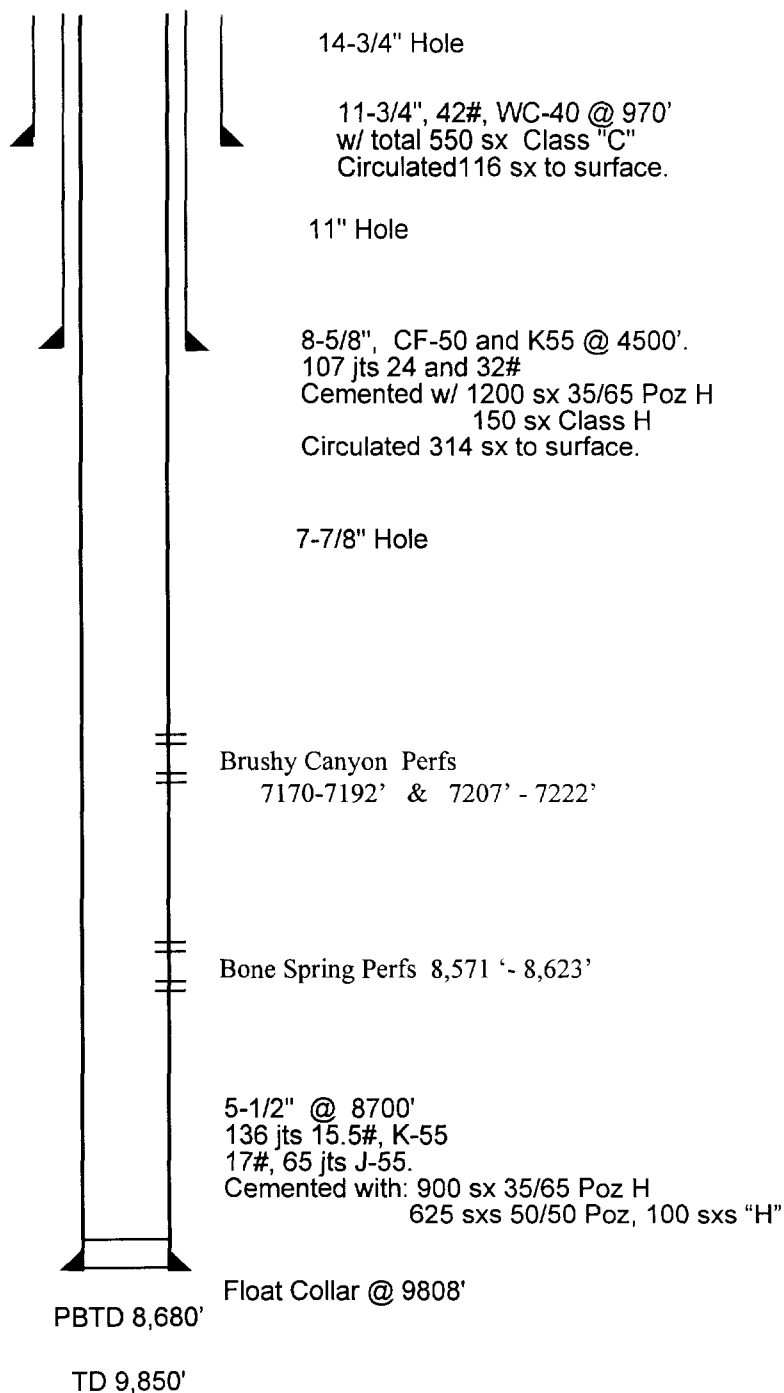
D) PROOF OF LEGAL NOTICE

**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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUBMIT ORIGINAL WITH 5 COPIES

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. Type of Well: OIL <input checked="" type="checkbox"/> WELL GAS <input type="checkbox"/> WELL DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		5. Lease Designation and Serial No. NM 18848	
1b. Type of Completion: NEW <input checked="" type="checkbox"/> WELL WORK <input type="checkbox"/> OVER DEEPEN <input type="checkbox"/> PLUG <input type="checkbox"/> BACK DIFF. <input type="checkbox"/> RESVR. OTHER <input type="checkbox"/>		6. If Indian, Alottee or Tribe Name	
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.		7. If Unit or CA, Agreement Designation	
3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418		8. Well Name and Number SDE '31' FEDERAL	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At Surface Unit Letter C : 660 Feet From The NORTH Line and 1980 Feet From The WEST Line At proposed prod. zone		9. API Well No. 30-025-32701	
At Total Depth		10. Field and Pool, Exploratory Area SAND DUNES; BONE SPRING, SOUTH	
14. Permit No.		11. SEC., T., R., M., or BLK. and Survey or Area Sec. 31, Township 23-S, Range 32-E	
Date Issued		12. County or Parish LEA	
15. Date Spudded 10/15/94		13. State N.M.	
16. Date T.D. Reached 10/31/94		18. Elevations (Show whether DF, RT, GR, etc.) GR-3579'	
17. Date Compl. (Ready to Prod.) 11/24/94		19. Elev. Casinhead 3579'	
20. Total Depth, MD & TVD 8700'		21. Plug Back T.D., MD & TVD 8680'	
22. If Multiple Compl., How Many*		23. Intervals Drilled By -> Rotary Tools 0-8700'	
24. Producing Interval(s), Of This Completion -- Top, Bottom, Name (MD and TVD)* 8571' - 8623': SAND DUNES; BONE SPRING, SOUTH		25. Was Directional Survey Made YES	
26. Type Electric and Other Logs Run DR/CNL/LDT, GR-DLL-SFL, GR SONIC, GR/CCL		27. Was Well Cored NO	

CASING RECORD (Report all Strings set in well)

CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
11 3/4 WC-40	42#	970'	14"	CL-C 750 SX, CIRC 116	
8 5/8, CF-50	24#	4500'	11"	CL-H 1350 SX	
5 1/2 K-55 &	15.5# & 17#	8700'	7 7/8"	CL-H 1625 SX, CIRC 96	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	8537'	-

31. Perforation record (Interval, size, and number) 8571' - 8623' (104 HOLES)		32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
		8571'-8623'	ACIDIZED W/ 2000 GALS 7 1/2% HCL
		8571'-8623'	FRACD W/ 39000 GALS FLUID
			& 146180# 20/40 OTTAWA SAND

33. PRODUCTION							
Date First Production 11/24/94		Production Method (Flowing, gas lift, pumping - size and type pump) FLOWING				Well Status (Prod. or Shut-in) PROD	
Date of Test 12/3/94	Hours tested 24	Choke Size 17/64"	Prod'n For Test Period	Oil - Bbl. 359	Gas - MCF 628	Water - Bbl. 119	Gas - Oil Ratio 1749
Flow Tubing Press. 750	Casing Pressure -	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	
Position of Gas (Sold, used for fuel, vented, etc.) VENTED BY APPROVAL OF BLM						Test Witnessed By RAY SHORT	

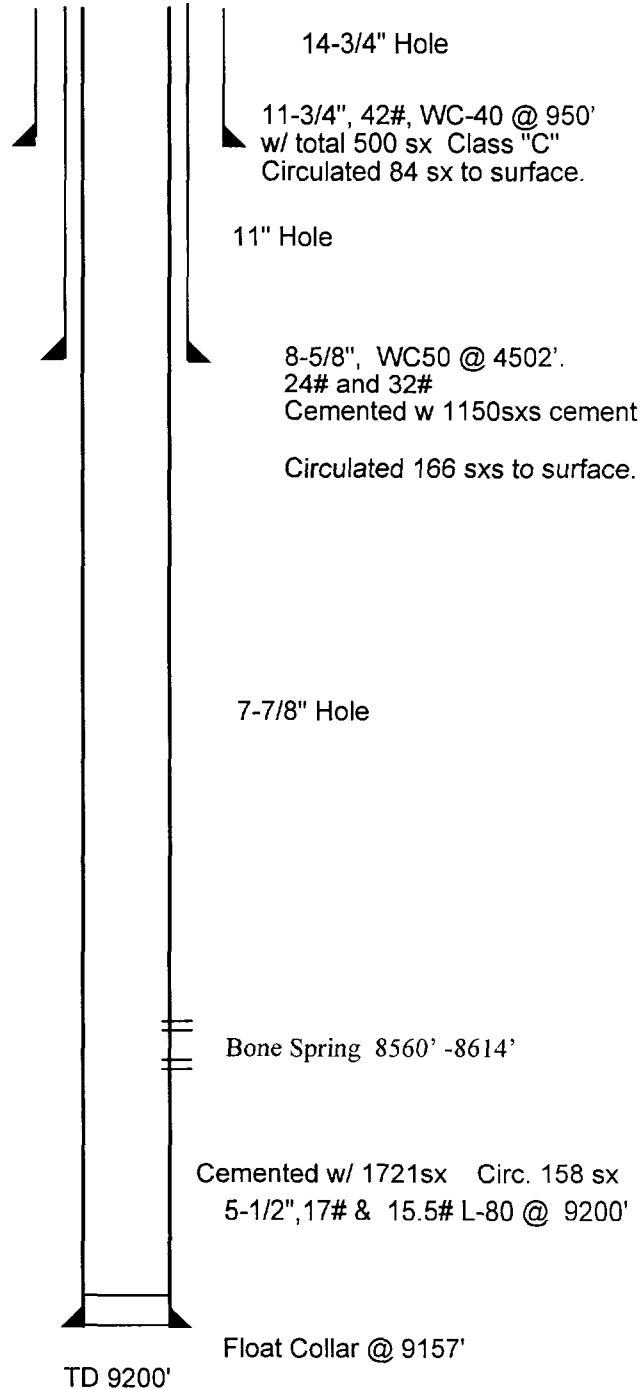
35. List of Attachments
DEVIATION SURVEY

36. I hereby certify that the foregoing is true and correct
SIGNATURE *Monte C. Duncan* TITLE Engr Asst DATE 12/14/94
TYPE OR PRINT NAME Monte C. Duncan

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATION COPY
FORM 1990-010
Bureau Bulletin No. 184-010
Expires: December 31, 1991

1 ORIGINAL WITH 5 COPIES

RECEIVED

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/> WELL WELL		5. Lease Designation and Serial No. NM 18848	
1b. Type of Completion: NEW <input checked="" type="checkbox"/> WORK <input type="checkbox"/> DEEPE <input type="checkbox"/> PLUG <input type="checkbox"/> DIFF. <input type="checkbox"/> OTHER <input type="checkbox"/> WELL OVER N BACK RESVR.		6. If Indian, Allottee or Tribe Name	
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.		7. If Unit or CA, Agreement Designation	
3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418		8. Well Name and Number SDE '31' FEDERAL	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At Surface Unit Letter F : 1980 Feet From The NORTH Line and 1980 Feet From The WEST Line At proposed prod. zone SAME		9. API Well No. 32716 30-025-37516	
At Total Depth		10. Field and Pool, Exploratory Area SAND DUNES; BONE SPRING, SOUTH	11. SEC., T., R., M., or BLK. and Survey or Area Sec. 31, Township 23-S, Range 32-E
15. Date Spudded 12/26/94	16. Date T.D. Reached 1/11/95	17. Date Compl. (Ready to Prod.) 3/18/95	18. Elevations (Show whether DF, RT, GR, etc.) GR-3574'
20. Total Depth, MD & TVD 9200'	21. Plug Back T.D., MD & TVD 9158' 8750'	22. If Multiple Compl., How Many*	23. Intervals Drilled By -> Rotary Tools 0-9200'
24. Producing Interval(s), Of This Completion - Top, Bottom, Name (MD and TVD)* 8560'-8614'; SAND DUNES; BONE SPRINGS, SOUTH			25. Was Directional Survey Made YES
26. Type Electric and Other Logs Run (SDL-DSN-CSNG-CAL, CSL-GR-CAL GR-DSN GR-CCL			27. Was Well Cored YES

28. CASING RECORD (Report all Strings set in well)					
CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
11 3/4	42#	950'	14 3/4	CL-C 500 SX, CIRC 84	
8 5/8	24# & 32#	4505'	11	CL-H 1150 SX, CIRC 166	
5 1/2	15.5# & 17	9200'	7 7/8	CL-H 1721 SX, CIRC 158	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	8458'	8461'

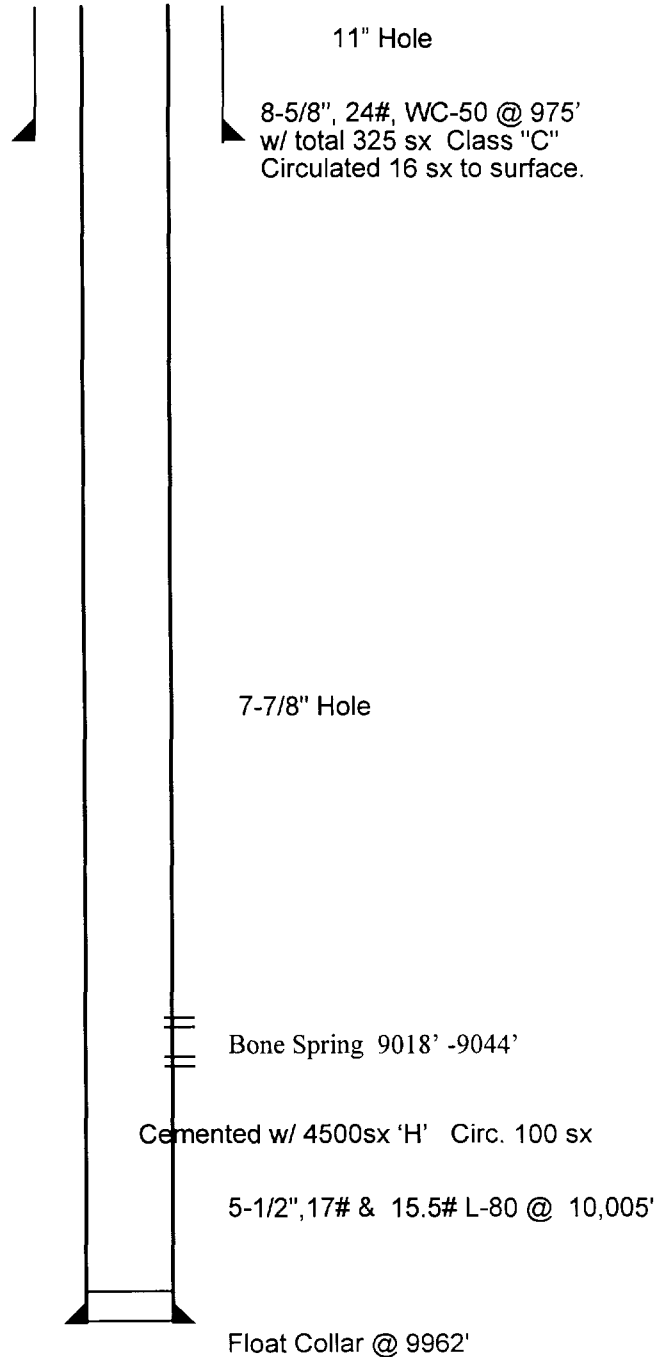
31. Perforation record (interval, size, and number) 8560'-8614' (108 HOLES)				32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				8560'-8614'	ACID - 5000 15% HCL NEFE
				8560'-8614'	FRACD W/ 37000 GALS OF 35# BORATE
					XLG 2% KCL & 146000# 20/40 OTTAWA
					SAND

33. PRODUCTION							
Date First Production 3/18/95		Production Method (Flowing, gas lift, pumping - size and type pump) FLOWING				Well Status (Prod. or Shut-In) PROD.	
Date of Test 3/18/95	Hours tested 24	Choke Size 15/64	Prod'n For Test Period	Oil - Bbl. 310	Gas - MCF 122	Water - Bbl. 43	Gas - Oil Ratio 384
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.) 42.7	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD						Test Witnessed By HOEUS COX Texaco Hobbs Area MAY 1995 Received	
35. List of Attachments DEVIATION SURVEY							
36. I hereby certify that the foregoing is true and correct							
SIGNATURE Monte C. Duncan			TITLE Engr Asst			DATE 4/18/95	
TYPE OR PRINT NAME Monte C. Duncan							

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OPERATOR'S COPY
FORM APPROVED
Budget Bureau No. 1004-0137
Expires: December 31, 1991

UBMT ORIGINAL WITH 5 COPIES

COMPLETION OR RECOMPLETION REPORT AND LOG*

a. Type of Well: OIL ☒ GAS ☐ DRY ☐ OTHER ☐
WELL WELL WELL AREA

b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. ☐ OTHER ☐
WELL OVER N BACK RESVR.

Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

Location of Well (Report location clearly and in accordance with any State requirements.)
Surface
Well Letter B : 810 Feet From The NORTH Line and 1980 Feet From The EAST Line
Proposed prod. zone
SAME

5. Lease Designation and Serial No.
NM 18848

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
SDE '31' FEDERAL

9. API Well No.
30-025-32717

10. Field and Pool, Exploratory Area
SAND DUNES; BONE SPRINGS, SOUTH

11. SEC., T., R., M., or BLK. and Survey or Area
Sec. 31, Township 23-S, Range 32-E

12. County or Parish
LEA

13. State
NM

14. Permit No. Date Issued

15. Date Spudded 2/5/95 16. Date T.D. Reached 3/5/95 17. Date Compl. (Ready to Prod.) 3/28/95 18. Elevations (Show whether DF, RT, GR, etc.) GR-3603' 19. Elev. Casinhead 3603'

20. Total Depth, MD & TVD 10,005' 21. Plug Back T.D., MD & TVD 9894' 22. If Multiple Compl., How Many* 23. Intervals Drilled By → Rotary Tools 0-10,005' Cable Tools -

24. Producing Interval(s), Of This Completion - Top, Bottom, Name (MD and TVD)*
9018'-9044': SAND DUNES; BONE SPRING, SOUTH

25. Was Directional Survey Made
YES

26. Type Electric and Other Logs Run
R-DIL GR-SDL-DSN, GR-FWS, GR

27. Was Well Cored
NO

CASING RECORD (Report all Strings set in well)					
CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
5/8	24#	975'	11	CL-C 325 SX, CIRC 16	
1 1/2	15.5# & 17	10,005'	7 7/8	CL-H 4500 SX, CIRC 100	

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8"	9006'	-

1. Perforation record (interval, size, and number)
9018'-9044'

32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
9018'-9044'	ACID - 2000 GALS 15% NEFE HCL
9018'-9044'	FRACD W/ 41,000 GALS 35# BORATE XLG
	CARRYING 165,000# 20/40 OTTOWA SAND

3. PRODUCTION

1st Production 3/28/95 Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING 2.5" X 1.75" X 20" ROD PUMP Well Status (Prod. or Shut-In) PROD.

Date of Test 3/25/95	Hours tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl. 154	Gas - MCF 245	Water - Bbl. 97	Gas - Ratio 1591
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity 42.7	API (Corr.) 31

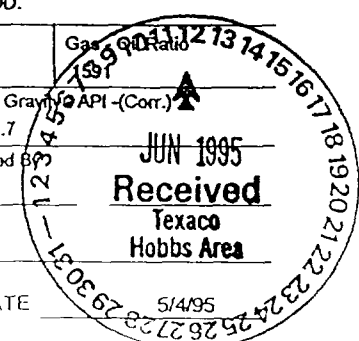
4. Ion of Gas (Sold, used for fuel, vented, etc.)
Test Witnessed By HOLLIS COX

5. List of Attachments
DEVIATION SURVEY

I hereby certify that the foregoing is true and correct

SIGNATURE *Monte C. Duncan* TITLE Engr Asst DATE 5/4/95

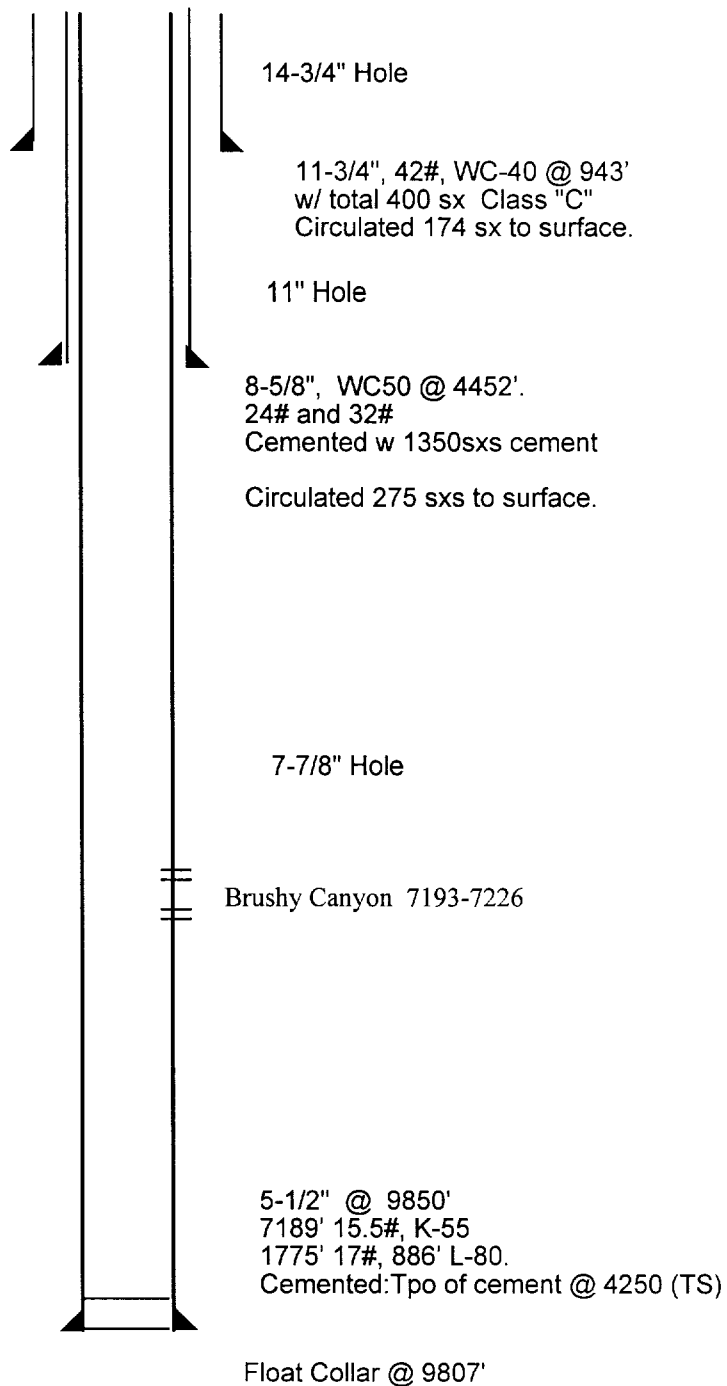
TYPE OR PRINT NAME Monte C. Duncan



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



OPERATOR'S COPY

m 3160-4
October 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

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

ORIGINAL WITH 5 COPIES

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

Type of Well: OIL ☒ GAS ☐ DRY ☐ OTHER ☐
WELL WELL
Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. ☐ OTHER ☐
WELL OVER N BACK RESVR.

Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0418

Location of Well (Report location clearly and in accordance with any State requirements.)

Surface
Well Letter K : 1980 Feet From The SOUTH Line and 1980 Feet From The WEST Line
proposed prod. zone
SAME

Total Depth

Date Spudded 4/5/95
16. Date T.D. Reached 4/21/95
17. Date Compl. (Ready to Prod.) 5/4/95

Total Depth, MD & TVD 9850'
21. Plug Back T.D., MD & TVD 9800'

Producing Interval(s), Of This Completion - Top, Bottom, Name (MD and TVD)*
93'-7226' :TRISTE DRAW; DELAWARE WEST

Electric and Other Logs Run
SONIC; GR-BHC SONIC

CASING RECORD (Report all Strings set in well)

CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
1 3/4"	42#	955'	14 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	

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SIZE	DEPTH SET	PACKER SET
				2-7/8"	7235'	-

1. Perforation record (interval, size, and number)
193'-7226'; BRUSHY CANYON

ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
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

PRODUCTION

Date First Production 5/4/95
Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING 2.5" X 1.75" X 24'

Date of Test 5/18/95
Hours tested 24
Choke Size
Prod'n For Test Period
Oil - Bbl. 33
Gas - MCF 55
Water - Bbl. 320

Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

List of Attachments
DEVIATION SURVEY

I hereby certify that the foregoing is true and correct

SIGNATURE *Monte C. Duncan* TITLE Engr Asst
DATE 5/26/95

5. Lease Designation and Serial No.

NM 18848

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number

SDE '31' FEDERAL

9. API Well No.

30-025-32867

10. Field and Pool, Exploratory Area

TRISTE DRAW; DELAWARE, WEST

11. SEC., T., R., M., or BLK. and Survey or Area

Sec. 31, Township 23-S, Range 32-E

12. County or Parish

LEA

13. State

NM

14. Elev. Casinhead

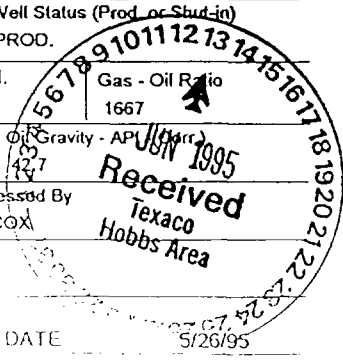
3567'

15. Was Directional Survey Made

YES

16. Was Well Cored

NO

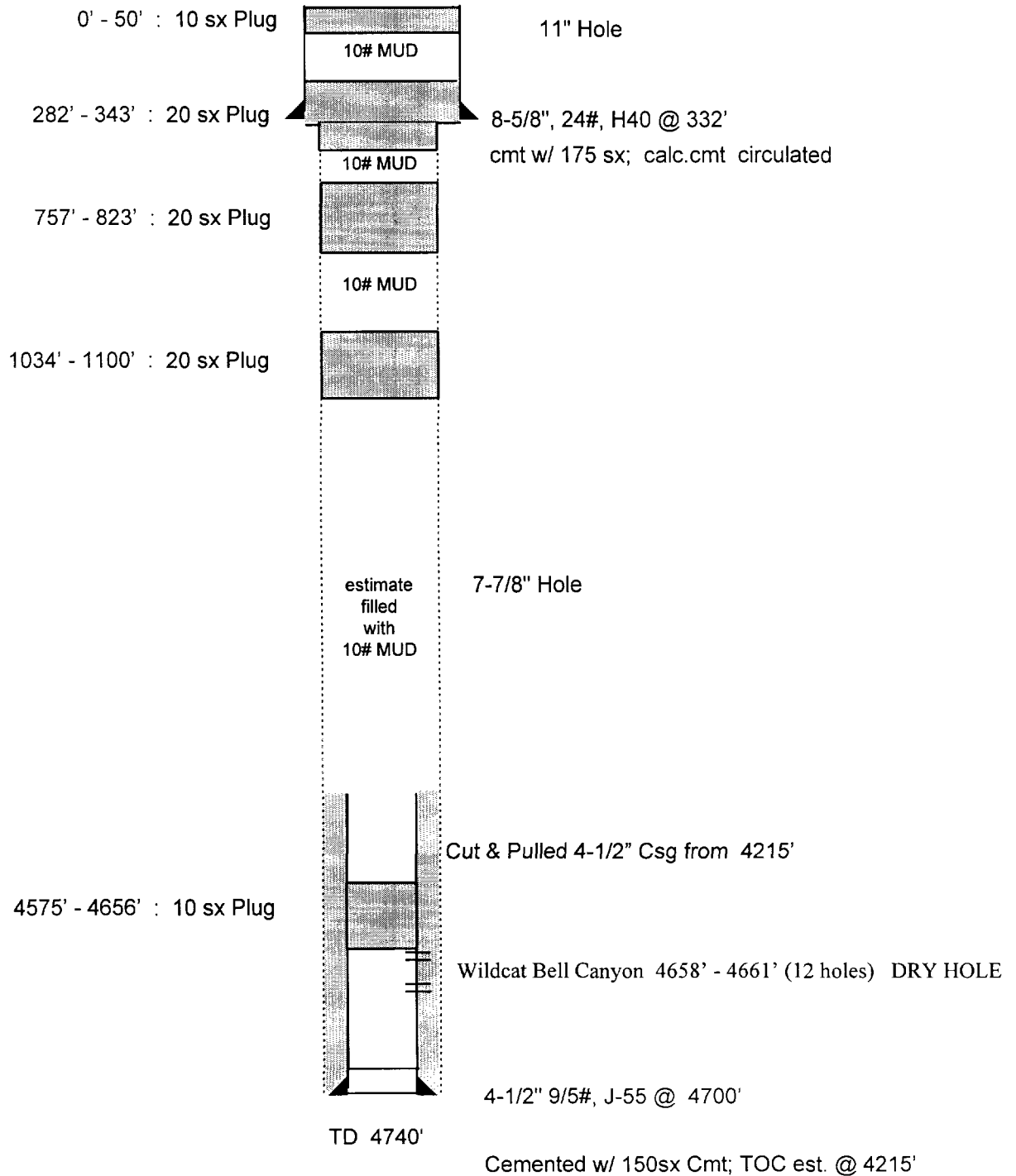


**DRY HOLE
PLUGGED & ABANDONED WELL**

**Curtis Hankamer
Contential Federal #1**

**Wildcat
Lea County, New Mexico**

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



NOTED

NOV 19 1962

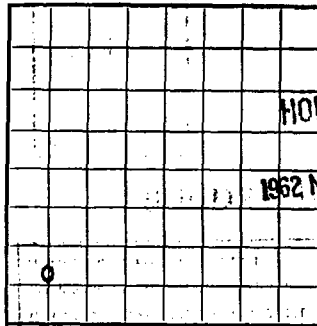
HOBBES

In approved,
Budget Bureau No. 43-8384

U. S. LAND OFFICE New Mexico

SERIAL NUMBER NM-03120

LEASE OR PERMIT TO PROSPECT



HOBBES OFFICE OCC

UNITED STATES

RECEIVED

1962 NOV 27 AM 1006

NOV 19 1962

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. GEOLOGICAL SURVEY
HOBBES, NEW MEXICO

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

1421 Bank of the Southwest Bldg.
Houston 2, Texas

Company Curtis Hankamer Address Houston 2, Texas
 Lessor or Tract Continental Federal Field Wildcat State New Mexico
 Well No. 1 Sec. 31 T. 23S R. 32E Meridian NMPM County Lea
 Location 660 ft. N. of E Line and 660 ft. E. of W Line of Sec. 31 Elevation 3551'
 (Derivat. from relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon
 so far as can be determined from all available records.

Signed Phil C. Hankamer
 Title Engineer

Date November 15, 1962

The summary on this page is for the condition of the well at above date.

Commenced drilling September 22, 1962 Finished drilling October 6, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to 53 No. 4, from None to None
 No. 2, from 50 to 121 No. 5, from None to None
 No. 3, from 121 to 130 No. 6, from None to None

IMPORTANT WATER SANDS

No. 1, from None to None No. 3, from None to None
 No. 2, from None to None No. 4, from None to None

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	21	3	AMCO	100	API	4210	4210	4551	Production
4-1/2	10	3	AMCO	100	API	4210	4210	4551	Production
HISLOK 10% OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	332	125 SXS & 24 Gel	Displacement	9	
4-1/2	4700	100 SXS & 30 gals latex	"	9	

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
 Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 4740 feet, and from feet to feet
 Cable tools were used from feet to feet, and from feet to feet

DATES

 , 19 Put to producing Dry, 19

The production for the first 24 hours was barrels of fluid of which % was oil; %
 emulsion; % water; and % sediment. Gravity, °Bé.

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

FOLD MARK

[illegible]

HISTORY OF OIL OR GAS WELL

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 4 1/2" casing @ 4700'. Perforated 4658' - 4661' w/12 holes. Acidized perforations w/500 gals. Breakdown Acid.

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.				

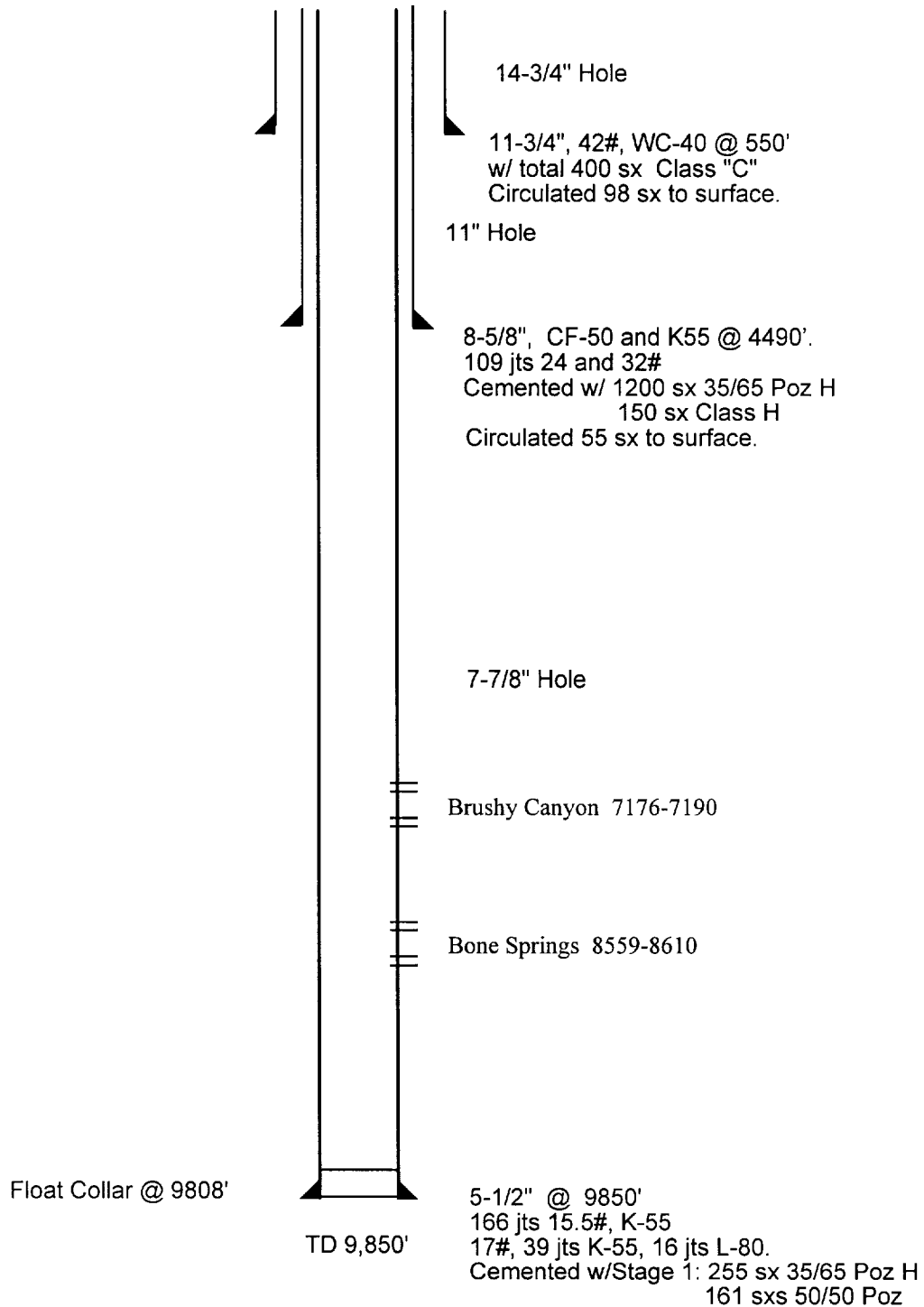
Installed 4" marker and cemented in top of surface. Pits and location have been cleaned and backfilled.

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUBMIT ORIGINAL WITH 5 COPIES

5. Lease Designation and Serial No.
NM-18848

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
SDE '31' FEDERAL

14

9. API Well No.
30-025-32915

10. Field and Pool, Exploratory Area
TRISTE DRAW; DELAWARE, WEST

11. SEC., T., R., M., or BLK. and Survey or Area
Sec. 31, Township 23-S, Range 32-E

12. County or Parish
LEA

13. State
NM

1a. Type of Well: OIL ☒ GAS ☐ DRY ☐ OTHER
WELL WELL WELL
1b. Type of Completion: NEW ☐ WORK ☐ DEEPEN ☐ PLUG ☒ DIFF. ☒ OTHER
WELL OVER BACK RESVR.

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. P.O. BOX 730, HOBBS, NM 88240 397-0443

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At Surface
Unit Letter N : 660 Feet From The SOUTH Line and 1980 Feet From The WEST Line
At proposed prod. zone
SAME

At Total Depth

14. Permit No. Date Issued

15. Date Spudded 5/16/95 16. Date T.D. Reached 6/1/95 17. Date Compl. (Ready to Prod.) 11/24/95 18. Elevations (Show whether DF, RT, GR, etc.) GR-3563' 19. Elev. Casinhead 3563'

20. Total Depth, MD & TVD 9850' 21. Plug Back T.D., MD & TVD 8500' 22. If Multiple Compl., How Many* 23. Intervals Rotary Tools Drilled By --> 0'-9850' CableTools

24. Producing Interval(s), Of This Completion -- Top, Bottom, Name (MD and TVD)* 7176-7190' 25. Was Directional Survey Made YES

26. Type Electric and Other Logs Run NONE ON RECOMPLETION 27. Was Well Cored NO

28. CASING RECORD (Report all Strings set in well)

CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
11 3/4"	42#	550'	14 3/4"	400 SX,CL C, CIR 98	
8-5/8"	24#, 32#	4454'	11"	1350 SX CL H, CIR 98	
5-1/2"	15.5#, 17#	9850'	7-7/8"	416 SX CL H, CIR O	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
NONE					2 7/8"	6993'	

31. Perforation record (interval, size, and number)
7176-7192, 2 JSPF, 28 HOLES

32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
7176-7192'	A/1500g 7.5%, 1500g 12%/3% HCL/HF
	F/6200g 30#, 17000# SD

33. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - size and type pump)					Well Status (Prod. or Shut-in)	
11/25/95		PUMPING					PRODUCING	
Date of Test	Hours tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio	
12/5/95	24			89	19	89	213	
Flow Tubing Press.		Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	
							45.8	

34. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD Test Witnessed By KEL/DBS

35. List of Attachments

38. I hereby certify that the foregoing is true and correct

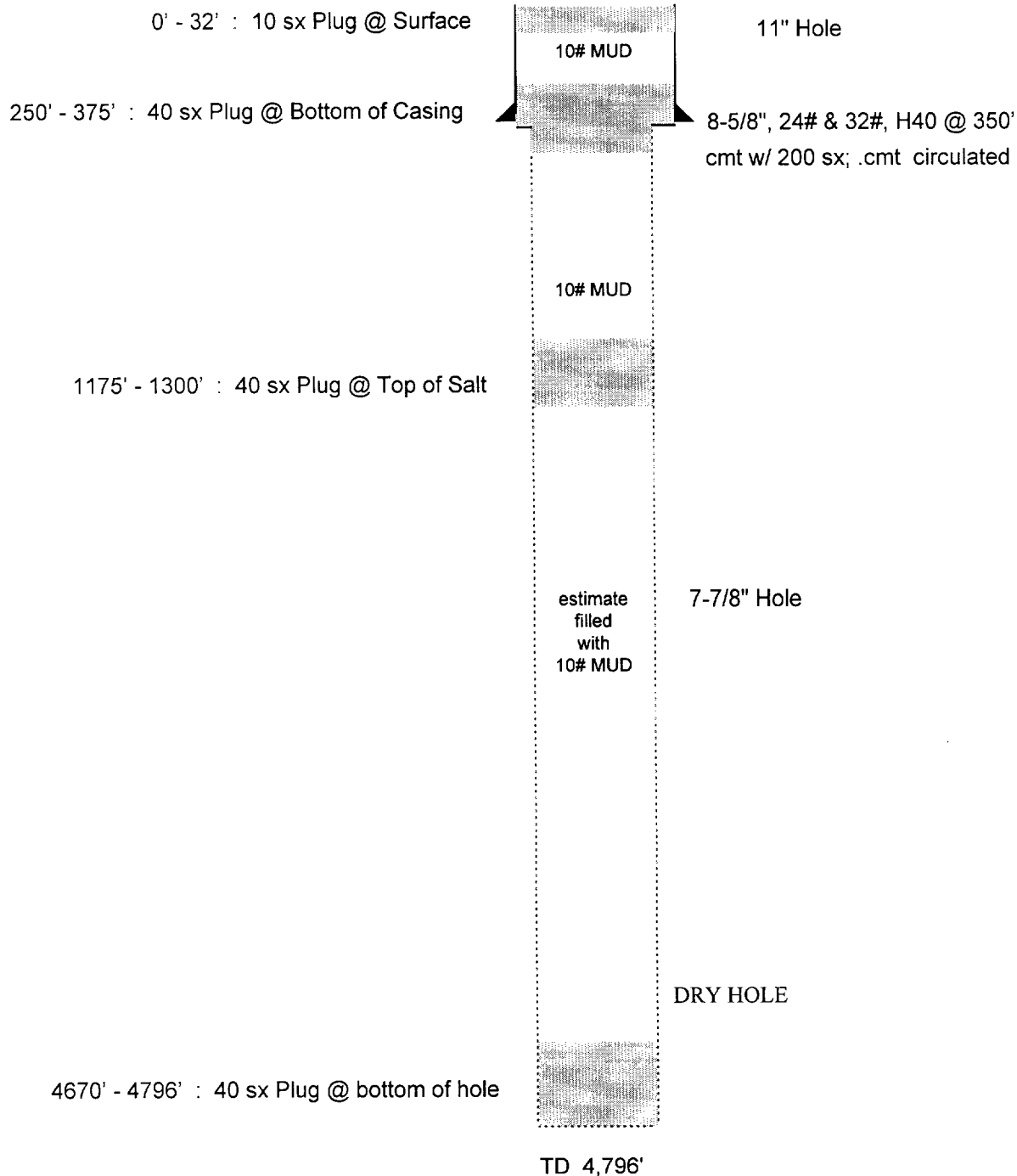
SIGNATURE _____ TITLE Clerk DATE 2/2/96
TYPE OR PRINT NAME M. Angie Davila

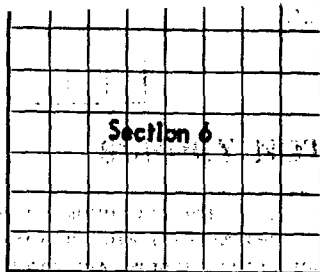
DRY HOLE PLUGGED & ABANDONED WELL

Curtis Hankamer
Bondurant-Federal #1

Wildcat
Lea County, New Mexico

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





HUBBLE
1932 OCT 2 MI 3 01
245
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
HOBBS, NEW MEXICO
SEP 26 1962

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Curtis Hankamer Address 214 Security National Bank Bldg.
Lessor or Tract Bondurant-Federal Field Wildcat State New Mexico
Well No. 1 Sec. 6 T. 24S R. 32E Meridian NMPM County Lea
Location 660 ft. N. of N. Line and 1980 ft. E. of E. Line of Sec. 6 Elevation 3584 DF
(Elevation four relative to sea level)
The information given herewith is a complete and correct record of the well and all work done thereon
so far as can be determined from all available records.
Signed Mr. M. J. Wilson
Date September 21, 1962 Title Area Manager

The summary on this page is for the condition of the well at above date.
Commenced drilling August 15, 1962 Finished drilling August 24, 1962

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	24.35	3	API	100	API	API	API	API	API
HIS LOG OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	350'	200	circulated		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%
emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____Buffalo Drilling Company_____, Driller _____, Driller
_____Contractor_____, Driller _____, Driller

FOLD MARK

APPROVED

		B

JUL 11 1963

(SUBMIT IN TRIPLICATE)

UNITED STATES

J. L. GODE DEPARTMENT OF THE INTERIOR

ACTING DISTRICT ENGINEER GEOLOGICAL SURVEY

7-10-63

E J H

Land Office NEW

Lease No. LC-068911

Unit B

SUNDRY NOTICES AND REPORTS ON WELLS

AUG 29 1962

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT..... X
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....
NOTICE OF INTENTION TO ABANDON WELL.....	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 27, 1962

Bondurant-Federal
Well No. 1 is located 660 ft. from ~~S~~^N line and 1980 ft. from ~~W~~^E line of sec. 6
NW/4 NE/4 Sec. 6 24S 32E NMPM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Lea New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3576.3 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The above well was plugged and abandoned as follows:

Total depth 4796' with 8-5/8" casing at 300'

Spotted cement plugs as follows:

- 40 sacks at 4796' (bottom of hole)
- 40 sacks at 1300' (top of Salt)
- 40 sacks at 350' (Base of surface casing)

Identification marker and 10 sacks cement at surface.

Location to be cleared as soon as pits are dry.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Curtis Hankamer

Address 214 Security National Bank Bldg.

Roswell, New Mexico

By Max M. Wilson

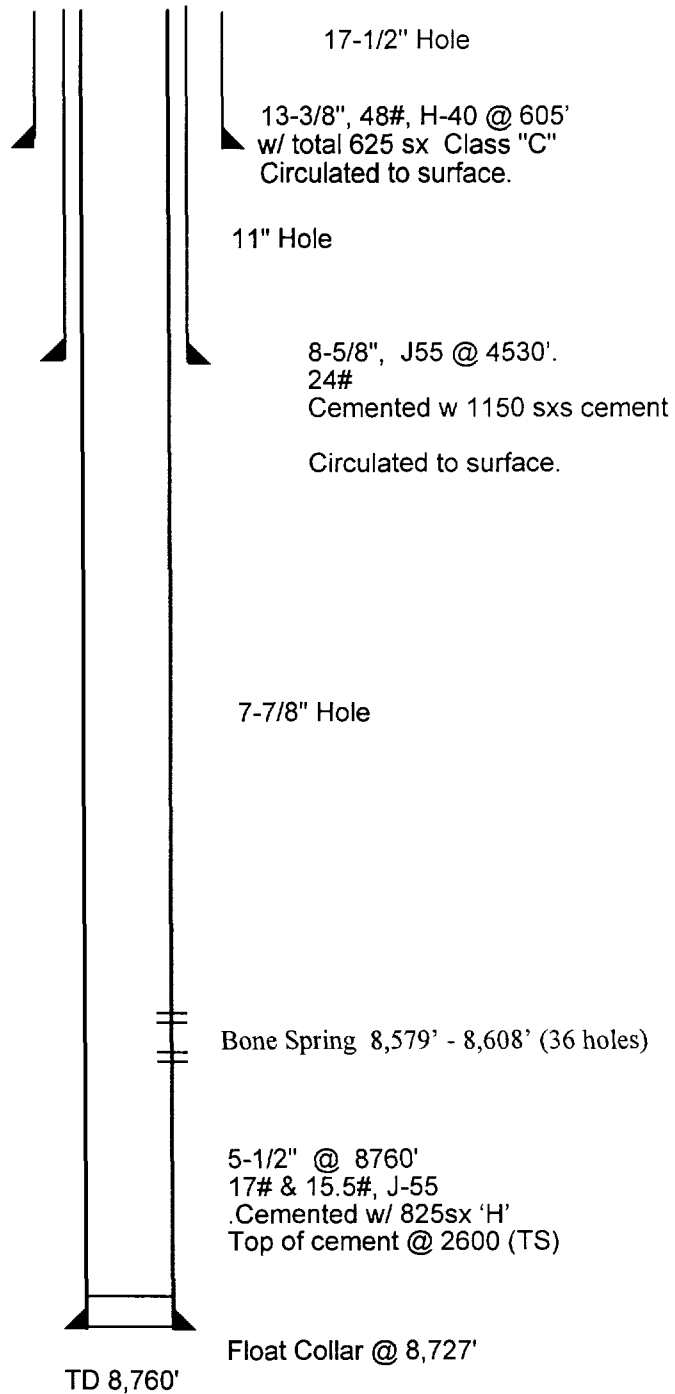
Title Area Manager

GPO 8 620 46

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



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

(See other instructions on reverse side)

Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		7. UNIT AGREEMENT NAME	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESERV. <input type="checkbox"/> Other _____		8. FARM OR LEASE NAME, WELL NO. Mesa Verde "6" Federal No. 7	
2. NAME OF OPERATOR Santa Fe Energy Resources, Inc.		9. API WELL NO. 30-025-32613	
3. ADDRESS AND TELEPHONE NO. 550 W. Texas, Suite 1330, Midland, TX 79701 915/687-3551		10. FIELD AND POOL, OR WILDCAT Mesa Verde Bone Spring	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface (B), 660' FNL & 2540' FEL, Sec. 6, T-24S, R-32E At top prod. interval reported below At total depth		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T-24S, R-32E	
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUNDED 11/22/95	16. DATE T.D. REACHED 12/6/95	17. DATE COMPL. (Ready to prod.) 12/29/95	18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 3568' GR
20. TOTAL DEPTH, MD & TVD 8760'	21. PLUG, BACK T.D., MD & TVD 8774'	22. IF MULTIPLE COMPL., HOW MANY* N/A	23. INTERVALS DRILLED BY A11
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 8579' - 8608' (Bone Spring)			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL; SDL/DSN/GR			27. WAS WELL CORED No

CASING RECORD (Report all strings set in well)				
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD
13-3/8" H-40	48.0	605'	17-1/2"	625 sx Lite & C (circ'd)
8-5/8" J-55	24.0	4530'	11"	1150 sx POZ & C (circ'd)
5-1/2" J-55	17.0 & 15.5	8760'	7-7/8"	825 sx Lite & H (TOC 2600)

LINER RECORD			TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A	4642	8491	2-7/8"	8491'	N/A
	8491	TD			

31. PERFORATION RECORD (Interval, size and number) 8579' - 8608' (36 holes)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) 8579' - 8608' AMOUNT AND KIND OF MATERIAL USED Frac w/46,000 gal gel & 143,361# 20/40 Ottawa sand and 24,240# resin coated sand
--	--

PRODUCTION							
DATE FIRST PRODUCTION 12/21/95		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 1/4/96	HOURS TESTED 24	CHOKE SIZE 15/64"	PROD'N. FOR TEST PERIOD →	OIL - BBL. 170	GAS - MCF. 324	WATER - BBL. 0	GAS - OIL RATIO 1906
FLOW. TUBING PRESS. 450#	CASING PRESSURE 900	CALCULATED 24-HOUR RATE →	OIL - BBL. 170	GAS - MCF. 324	WATER - BBL. 0	OIL GRAVITY - API (CORR.) 42.0	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Sold						TEST WITNESSED BY	

35. LIST OF ATTACHMENTS C-104, Deviation Survey, Logs	
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	37. DATE 1/26/96
SIGNED <i>Jerry McCullough</i>	TITLE Sr. Production Clerk

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

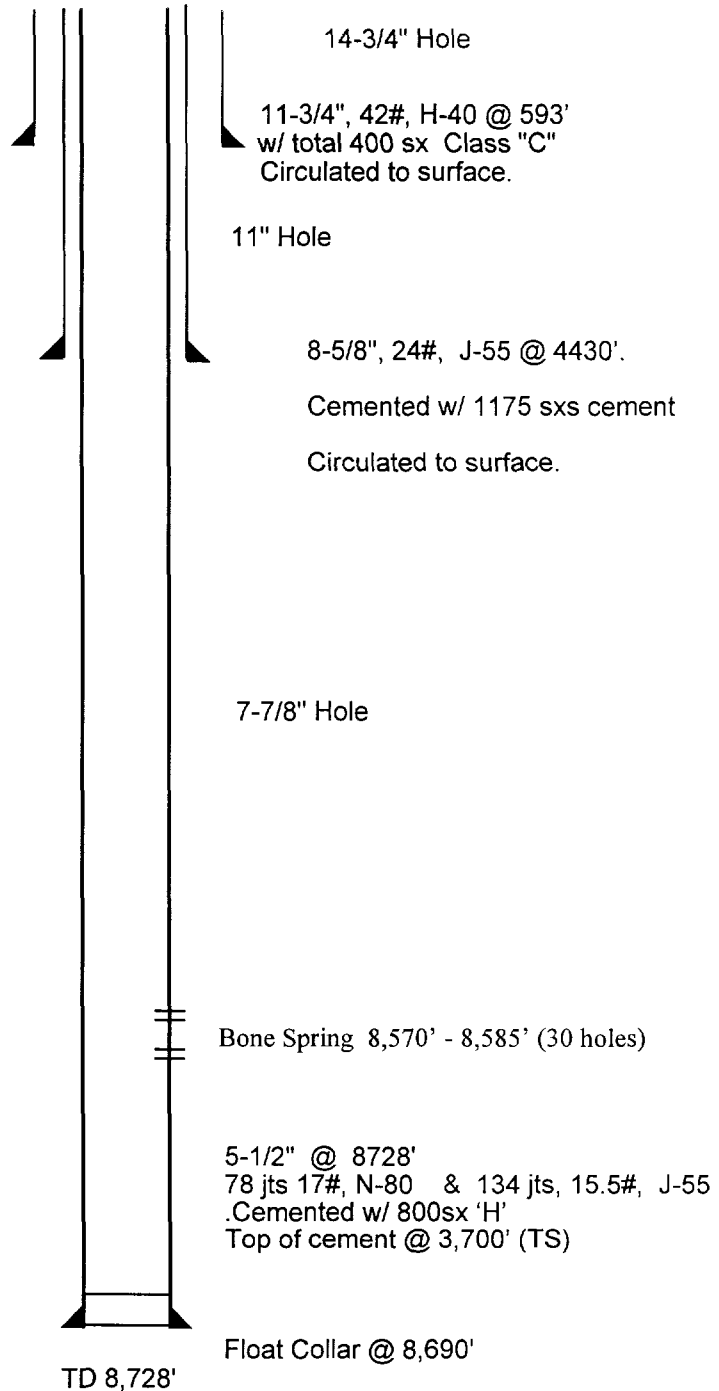
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

46. I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Terry McCullough</i> Printed name: Terry McCullough Title: Sr. Production Clerk Date: June 7, 1995 Phone: 915/687-3551		OIL CONSERVATION DIVISION Approved by: ORIGINAL SIGNED BY JERRY SEXTON Title: DISTRICT I SUPERVISOR Approval Date: _____ 47. If this is a change of operator fill in the OGRID number and name of the previous operator <i>Betty Gildon</i> Betty Gildon Reg. Analyst Previous Operator Signature Printed Name Title Date Enron Oil and Gas Company #7344 6/12/95	
---	--	---	--

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



District II

PO Drawer DD, Artesia, NM 87003

District III

1000 Rio Brazos Rd., Aztec, NM 87412

District IV

PO Box 2088, Santa Fe, NM 87504-2088

CONFIDENTIAL

OIL CONSERVATION DIVISION

PO Box 2088

Santa Fe, NM 87504-2088

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

Operator name and Address Enron Oil & Gas Company P. O. Box 2267 Midland, Texas 79702		OGRID Number 7377
THIS WELL HAS BEEN PLACED IN THE POOL DESIGNATED BELOW. IF YOU DO NOT CONCUR NOTIFY THIS OFFICE.		Reason for Filing Code NW
API Number 30 - 0 25 32753	Pool Name Mesa Verde Bone Spring R-10342 5/1/95	Pool Code 96229
Property Code 13210	Property Name Mesa Verde 6 Federal	Well Number 14

II. Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County
C	6	24S	32E		330	north	1650	west	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South Line	Feet from the	East/West Line	County

Lee Code	Producing Method Code	Gas Connection Date	C-129 Perm Number	C-129 Effective Date	C-129 Expiration Date
F	F	2-2-95			

III. Oil and Gas Transporters

OGRID	Transporter Name and Address	POD	O/G	POD ULSTR Location and Description
7440	EOTT Energy Operating, L.P.	2814187	O	UL C, Sec 6, T24S, R32E
9171	GPM Gas Corporation	2814318	G	UL C, Sec 6, T24S, R32E

V. Produced Water

POD	POD ULSTR Location and Description
939750	UL K, Sec 30, T24S, R34E

Well Completion Data

Spud Date	Ready Date	TD	PSTD	Perforations
1-4-95	1-27-95	8728	8687	8570-8585

Hole Size	Casing & Tubing Size	Depth Set	Sacks Cement
14-3/4	11-3/4	593	400 sx Circulated
11	8-5/8	4430	1175 sx Circulated
7-7/8	5-1/2	8728	800 sx TOC: 3700'
	2-7/8" Tubing	8486	

I. Well Test Data

Date New Oil	Gas Delivery Date	Test Date	Test Length	Tbg. Pressure	Csg. Pressure
1-27-95	2-2-95	2-6-95	24 hrs	570	1490
Choke Size	Oil	Water	Gas	AOF	Test Method
19/64	225	44	400	-	

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Betty Gildon

Jc:

Regulatory Analyst

lc:

2-16-95

Phone: 915/686-3714

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY JERRY SEXTON

Title:

DISTRICT I SUPERVISOR

Approval Date:

FEB 20 1995

If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

Printed Name

Title

Date

B) ADDITIONAL GEOLOGICAL INFORMATION

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



SPECTRAL DENSITY
DUAL SPACED
NEUTRON 11 LOG

COMPANY TEXECO EXPLORATION	
WELL	SDE FEDERAL 31-9
FIELD	TRISTE DRAW WEST
COUNTY	LEA
STATE	NM
COMPANY TEXECO EXPLORATION & PRODUCTION	
WELL	SDE FEDERAL 31-9
FIELD	TRISTE DRAW WEST
COUNTY	LEA
STATE	NM
API NO	30-025-32868
LOCATION	1990 FSL AND 1990 FEL OF SECTION 31
OTHER SERVICES	H01L
PERMANENT DATUM	G.L.
LOC MEASURED FROM K.B.	11
DRILLING MEASURED FROM K.B.	04/03/95
DATE	ONE
RUN NO.	3860
DEPTH-DRILLER	9843
DEPTH-LOGGER	9840
BIT LOG INTER	4905
CASING-DRILLER	8-625#970
CASING-LOGGER	NOT LOGGED
BIT SIZE	7 875
TYPE FLUID IN HOLE	SALTWATER
DENS. : VISC.	10.0 : 39
PH : FLUID LOSS	9.0 : 12
SOURCE OF SAMPLE	MUD TANK
RM : MEAS. TEMP.	0.10 @ 75 F
RMF : MEAS. TEMP.	0.10 @ 56 F
RMC : MEAS. TEMP.	0.04 @ 58 F
SOURCE : RMF:RMC	MEAS : MEAS
RM @ BHT	0.04 @ 163 F
RMF @ BHT	0.03 @ 163 F
RMC @ BHT	0.01 @ 163 F
TIME SINCE CIRC.	18:30 04/02
TIME ON BOTTOM	10:31 04/03
HQ. REC TEMP.	163 F @ 10
EQUIP : LOCATION	525521TYLER
RECORDED BY	SCAMITT
WITNESSED BY	M.R. JOHNSON
MOORE ENRG INC	

FOLD HERE

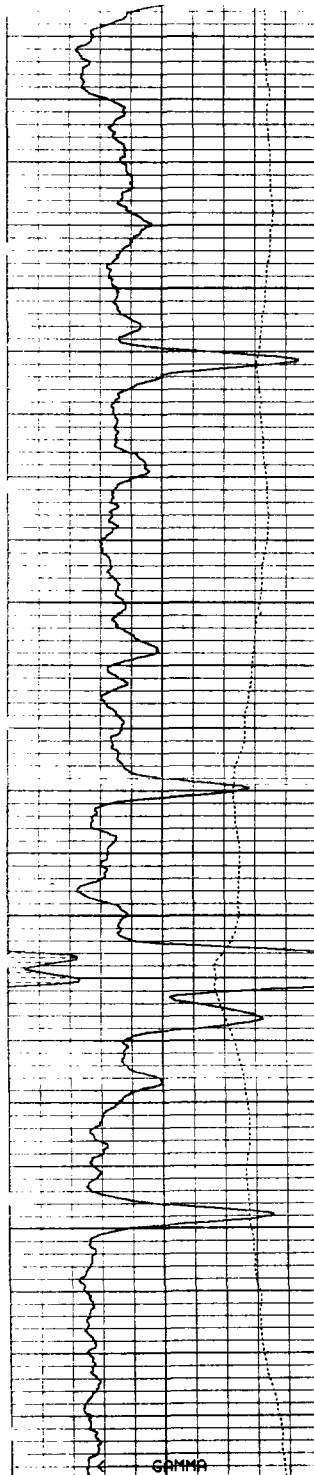
SERVICE TICKET NO.: 788919		API SERIAL NO.: 30-025-32868		PGM VERSION: 2.61	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES				RESISTIVITY SCALE CHANGES	
DATE: SAMPLE NO.	/ /	/ /	TYPE LOG	DEPTH	SCALE UP HOLE
DEPTH-DRILLER					
TYPE FLUID					
IN HOLE					
DENS. : VISC					
PH : FLUID LOSS					
RESISTIVITY EQUIPMENT DATA					
RM @ MEAS TEMP	0.08 @ 75 F	@	RUN NO	TOOL TYPE & NO	PAD TYPE
RMF @ MEAS TEMP	0.07 @ 75 F	@	ONE	HDIL-A010	FREE
RMC @ MEAS TEMP	0.03 @ 75 F	@			
SOURCE: RMF:RMC	MEAS : MEAS				
RM @ BHT	0.04 @ 163 F	@			
RMF @ BHT	0.03 @ 163 F	@			
RMC @ BHT	0.01 @ 163 F	@			
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
RUN NO.	ONE	RUN NO.		RUN NO.	ONE
SERIAL NO.	A015	SERIAL NO.		SERIAL NO.	A011
MODEL NO.	HNGR	MODEL NO.		MODEL NO.	HSDL
DIAMETER	2.75	NO.OF CENT.		DIAMETER	2.75
DETECTOR MODEL NO.	HNGR	SPACING		LOG TYPE	G-G
TYPE	SCINT			SOURCE TYPE	CS-137
LENGTH	N/A	LSA [Y/N]		SERIAL NO.	155
DISTANCE TO SOURCE	N/A	FWD A [Y,N]		STRENGTH	N/A
LOGGING DATA					
GENERAL		GAMMA		ACOUSTIC	
RUN	DEPTH	SPEED	SCALE	SCALE	SCALE
NO	FROM TO	FT/MIN	L R	L R	MATRIX
ONE	9843 4905	30	0 150	30	-10 2.71
REMARKS:					
NO BOWSPRING RAN ON DSN DUE TO TOOL BEING RAN THROUGH DRILL PIPE					
BOTTOM OF DRILL PIPE AT 4850. ALL TIMES CENTRAL ZONE.					
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING					
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK RESISTIVITY OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF LOG DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL TORT, NEGLIGENCE, OR EXPENSES RESULTING FROM THE USE THEREOF.					

5" = 100'

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

5" = 100'

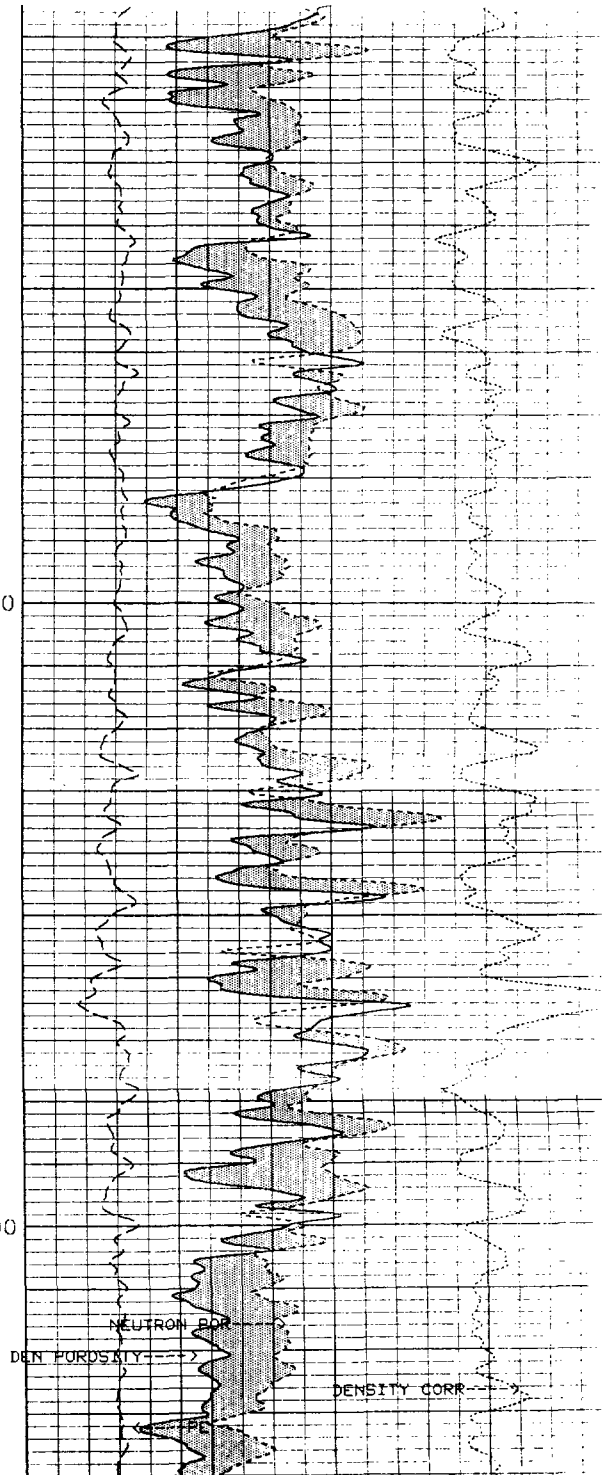
CALIPER		
6	INCHES	16
GAMMA		
0	GAMMA API	150

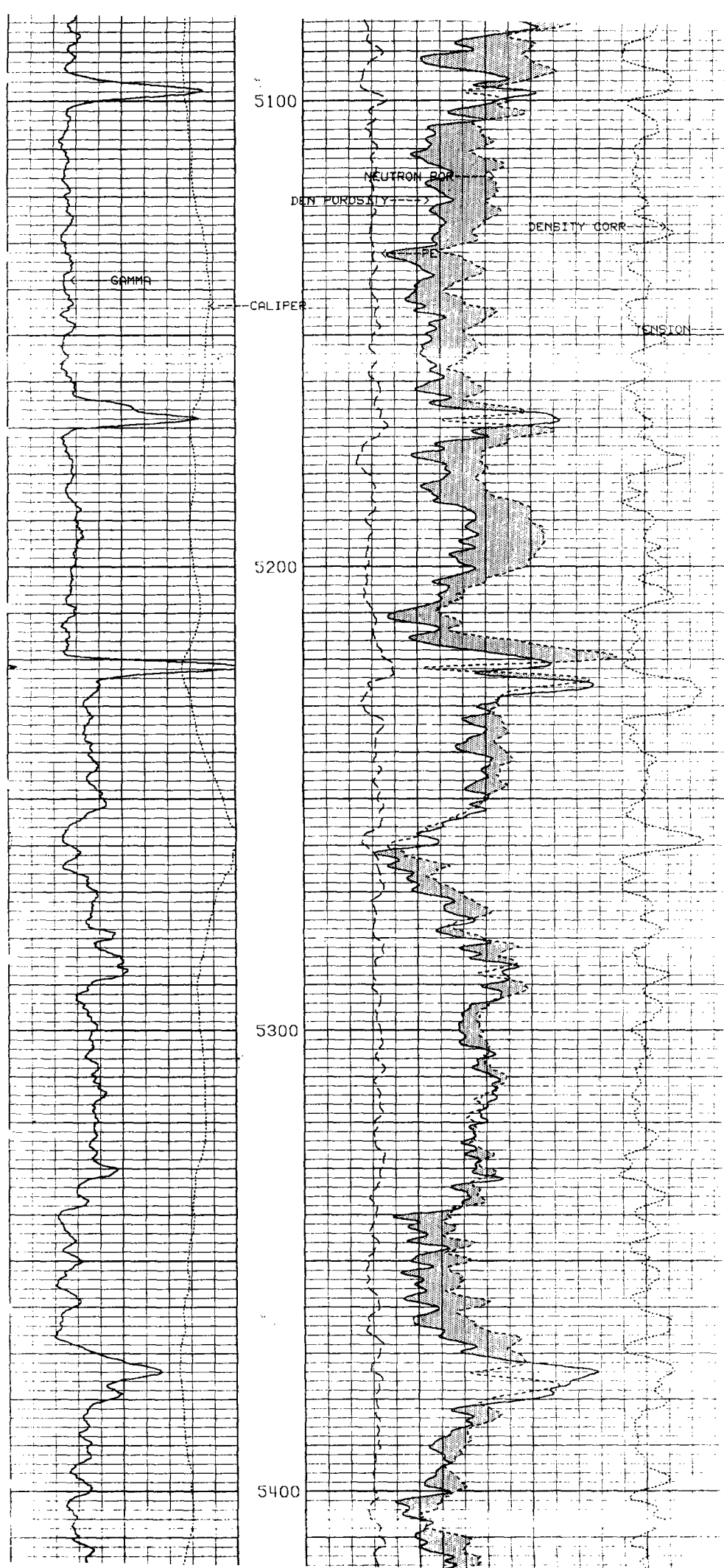


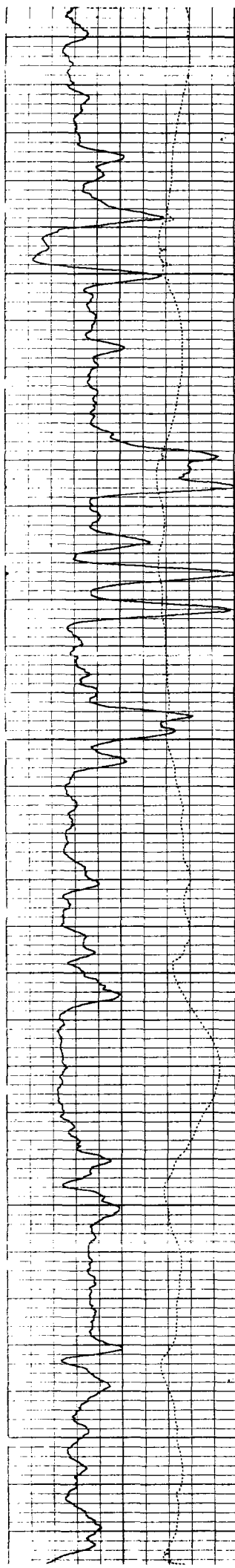
DEN POROSITY			
PERCENT MATRIX DENSITY = 2.71			
NEUTRON POR			
PERCENT NEUTRON MATRIX = LIME			
PE		TENSION	
0	10	11000	POUNDS
DENSITY CORR			
- .25		GM/CC	

5000

5100





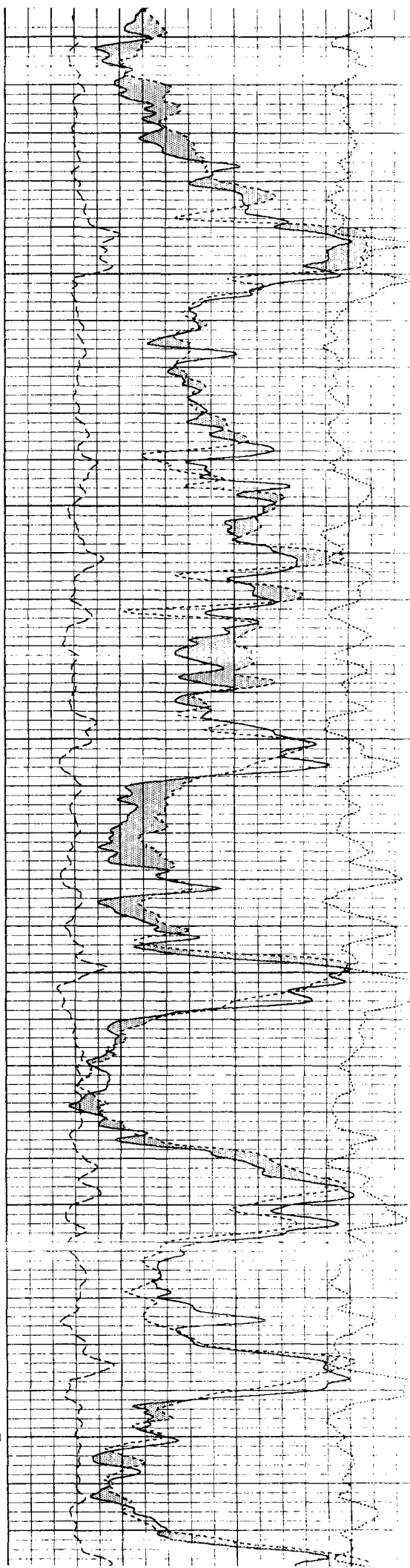


5400

5500

5600

5700



CON

4700

CON

50

CON

CON

4800

CON

50

CON

CON

4900

CON

CON

50

CON

5000

CON

/HD,BLKY,CHKY,LIMY,TR
ANNY,TR SANDSS:CLR,FRSTD,WHT,VF/F
GR,SB ANG/SBRND,LSLY
CONSOL,LIMY,TR SHLY,
BRI YEL FLUOR,V SLI
HALO CUT,TR STAINSH:DK GRY,GRY,LT GRY,
SLI CARB,FRM/HD,BLKY,
CHKY,TR MICA,PYRSS:CLR,FRSTD,WHT,VF/F
GR,SLTY,PREDOM UNCON-
SOL,SBANG/SBRND,SM
ANG,PYR,LIMY
SURVEY-4790-2 3/4ANNY:CLR,FRSTD,LT GRY
TRANSL,DNS,VF/F XLN,
SALT,TR LIMYSS:CLR,FRSTD,LT GRY,
WHT,VF/F GR,UNCONSOL,
SLI LIMY,TR PYRSS:CLR,FRSTD,WHT,LT
GRY,UNCONSOL,SBANG/SB
RND,VL SRD,LIMY,TR
PYRWOB-30/45 RPM-65
SPM-56 PF-1100SS:CLR,FRSTD,WHT,LT
GRY,SBANG/SBRND,VF/F
GR,LSLY CONSOL,LIMY,
TR PYRSS:CLR,FRSTD,WHT,LT
GRY,LSLY CONSOL,LIMY,
SBANG/SBRND,VL SRD,
TR PYR

CON

CON

CON

CON

CON

CONN

SVY

CONN

CONN

CONN

50

5100

50

5200

50

5300

SS: CLR, FRSTD, LHT, LT
GRY, LSLY CONSOL, LIMY,
SBANG/SBRND, WL SRTD,
TR PYR

SS: CLR, FRSTD, LT GRY,
UNCONSOL, TR LIMY, SB-
ANG/SBRND, TR PYR

SS: CLR, FRSTD, LT GRY,
VF/F GR, UNCONSOL, SB-
ANG/SBRND, SLI LIMY, TR
PYR

SS: CLR, FRSTD, LT GRY,
UNCONSOL, VF/F GR, SLTY
TR SHLY, LIMY, TR PYR

SS: FRSTD, CLR, GRY, VFH
XEXXDEV 1 1/4 DEGREE
LSLY CONS, MOD SRT

SS: FRSTD, CLR, GRY,
VFH GR, S/RD-S/ANG, UNC

LS: BRN, TN, MIC XLN, DNS
HD, SME SLI SMDY

LS: BRN, TN, BUFF, MIC
XLN, DNS, HD-MOD HD, SME
SMDY

SS: LT GRY FRSTD, CLR,
VFH GR, S/RD-S/ANG LSL
CONS-UNCONS, LIMY IP,
W/SRT

200 400

200 400

200 400

100 200

100 200

CONN

5300

CONN

50

CONN

5400

CONN

50

CONN

5500

CONN

50

CONN

5600

CONN

SS:LT GRV FRSTD,CLR,
VFN GR,S/RD-S/ANG LSL
CONS-UNCONS,LIMY IP,
W/SRT

100

200

SS:CLR,FRSTD,VFN GR

LS:TN,BRN,LT BRN,MIC
XLN,DNS,HD-MOD HD,SME
SNDY IP

SS:CLR,FRSTD,SME GRV
VFN GR OCC FN GR,S/RD
S/ANG,UNCONSOL-LSLY
CONSOL,MOD SRT

100

200

XXXXXXXXX STEEL PITS
OR FLUID LOSSXXXXXXXXX

SS:FRSTD,CLR,GRV,VFN-

SS:FRSTD,GRV,CLR,VFN
SME FN GR,S/ANG-S/RD,
CONSOL-UNCONSOL,MOD
QMT,CALC,W/SRET

100

200

SS:FRSTD,CLR,VFN GR,
S/RD-S/ANG,UNCON-LSLY
CONS,W/SRT,SME WHT
CLY

LS:TN,BRN,BUFF,MIC
XLN,DNS,HD,SNDY IP

SS:CLR,FRSTD,VFN GR,

I



Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Texaco Inc.
Date : 12-9-1994
Location: SDE - 31#2 (on 12-9-1994)

Sample 1

Specific Gravity: 1.076
Total Dissolved Solids: 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     |
| Hydroxide   | (OH-1)   | 0    | 0     |
| Sulfate     | (SO4-2)  | 49.4 | 2380  |
| Chloride    | (Cl-1)   | 1750 | 62000 |

DISSOLVED GASES

|                        |      |
|------------------------|------|
| Carbon Dioxide (CO2)   | 50.0 |
| Hydrogen Sulfide (H2S) | 0    |

~~~~~

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium 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[C]	1.9	-10
160[F]	71[C]	2.3	-6.4

Comments:
cc: Isaac Huskey
Joe Hay
Bob Wallace - Tech Service

I

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

P 622 713 430

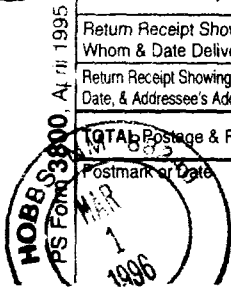
US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
Santa Fe Energy Resour	
Street & Number	
500 W. Texas Suite 1330	
Post Office, State, & ZIP Code	
Midland TX 79701	
Postage	\$ 0.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 2.98
Postmark or Date	



PS Form 3800, April 1995

P 622 713 429

US Postal Service

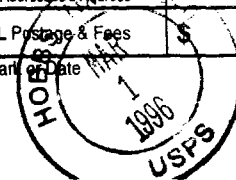
Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
BUREAU OF LAND MANAGEMENT	
Street & Number	
PO BOX 1778	
Post Office, State, & ZIP Code	
CARLSBAD, N.M. 88220-1778	
Postage	\$ 0.98
Certified Fee	1.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 2.98
Postmark or Date	

PS Form 3800, April 1995



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

Kathi Bearden
Publisher

Sworn and subscribed to before

me this 1st day of

March, 1996

Maxilem E. Ruffino
Notary Public.

My Commission expires

March 24, 1998

(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 Division, P. O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

#14420

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.

SWD-621



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

3/6/96

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 _____
DHC _____
NSL _____
NSP _____
SWD X _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Texaco E&P Inc SDE 31 Federal "9-J 31-23s-32e"
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed



TEXACO

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 ☒ URGENT ☐ ROUTINE NO. OF PAGES 2+cMESSAGE TO: Ben Stone - OCD

TELEPHONE NO. _____ FAX MACHINE NO. _____

DEPT./DIV./SUBS. _____

LOCATION _____ ROOM NO. _____

MESSAGE FROM: Michael AlexanderTELEPHONE NO. 505 397-0419 FAX MACHINE NO. 505 397-0450

DEPT./DIV./SUBS. _____

LOCATION Hobbs, NM ROOM NO. _____

SENDING DEPT. APPROVAL _____ TIME TRANSMITTED _____

☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL☐ RETURN ORIGINAL CALL SENDER TO PICK UP

ADDITIONAL COMMENTS:

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

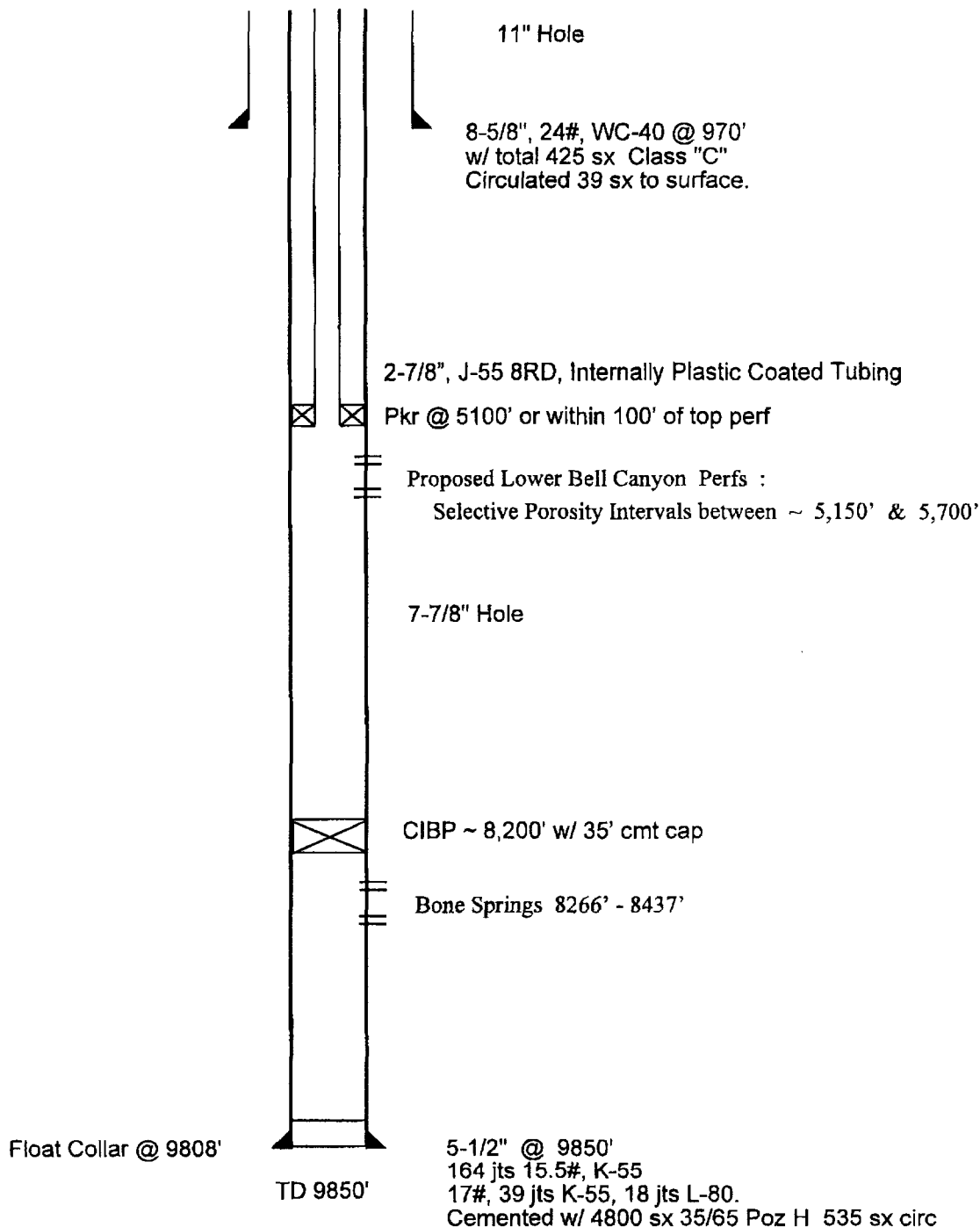
REVISED 3/18/96

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



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:

DD DeCade

Title:

DIVISION Mgr - PROD

Company:

SANTA FE ENERGY RESOURCES INC.

Date:

4/1/96

MMH

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240
FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: ☐ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. 205 E. Bender, HOBBS, NM 88240 397-0418

4. Location of Well (Footage, Sec., T., R., M., or Survey Description) (BATTERY LOCATION)
Unit Letter F : Feet From The Line and Feet From The
Line Section 31 Township 23-S Range 32-E

5. Lease Designation and Serial No.
NM-18848

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number
SDE 31 FEDERAL LEASE

9. API Well No.

10. Field and Pool, Exploaratory Area
SAND DUNES; BONE SPRING, SOUTH
~~Triste Draw; Delaware, West~~
11. County or Parish, State
LEA, NM

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Attering Casing
☒ OTHER: CHANGE SWD SYSTEM

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

THIS NOTICE IS TO REPORT TO THE BLM A CHANGE IN THE METHOD OF WATER DISPOSAL ON THE ABOVE LEASE. EFFECTIVE 4/15/96, THE WATER PRODUCED BY THESE LEASE IS DISPOSED INTO A SWD SYSTEM OPERATED BY TEXACO EXPLORATION & PRODUCTION INC UNDER NMOCAD ADMINISTRATIVE ORDER SWD-621.

(A) TEPI WELLS AND POOLS:

LEASE & WELL NUMBER	LOCATION	POOL
SDE 31 FEDERAL WELLS #1, #2, #14	SECTION 31, T-23-S, R-32-E	TRISTE DRAW; DELAWARE, WEST POOL
SDE 31 FEDERAL WELLS #4, #5, #8	SECTION 31, T-23-S, R-32-E	SAND DUNES; BONE SPRING, SOUTH

(B) AMOUNT OF WATER PRODUCED PER DAY: APP 215 BARRELS PER DAY

(C) WATER IS MOVED BY A WATER TRANSFER PUMP LOCATED AT THE SDE 31 FEDERAL TANK BATTERY LOCATED IN UNIT LETTER F, SECTION 31, T-23-S, R-32-E, LEA COUNTY, N.M. THE PRODUCED WATER IS PUMPED FROM THE BATTERY DOWN A 3" POLY LINE ALONG THE LEASE ROAD TO SDE 31 FEDERAL WELL #9 LOCATED IN UNIT LETTER J, SECTION 31, T-23-S, R-32-E, LEA COUNTY, N.M. THIS WELL HAS RECENTLY BEEN RECOMPLETED TO THE BELL CANYON TO SERVE AS A DISPOSAL WELL FOR THIS LEASE.

(D) NO PITS ARE INVOLVED IN THIS METHOD OF WATER DISPOSAL

14. I hereby certify that the foregoing is true and correct.

SIGNATURE Monte C. Duncan TITLE Engr Asst

DATE 5/28/96

TYPE OR PRINT NAME Monte C. Duncan

(This space for Federal or State office use)

APPROVED BY James C. Bowers TITLE Lead PET

DATE 6/19/96

CONDITIONS OF APPROVAL, IF ANY: * See Attached COA

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.

(rev. 3/10/94)

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.
3. 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.
6. 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.