CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: Meridian Oil, Inc. Well: Triste Draw '36' State No. 1

Contact: Donna Williams Title: Regulatory Comp. Phone: 915-688-6943

DATE IN 10-10-95 RELEASE DATE 10-24-95 DATE OUT 10-31-95

Proposed Injection Application is for: ___ **WATERFLOOD** ___ Expansion ___ Initial

Original Order: R- _____ ___ Secondary Recovery ___ Pressure Maintenance

SENSITIVE AREAS X **SALT WATER DISPOSAL** ___ Commercial Well

1 TWP
SE WIPP ___ Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

6 Total # of AOR 1 # of Plugged Wells

YES Tabulation Complete YES Schematics of P & A's

YES Cement Tops Adequate ___ AOR Repair Required

INJECTION FORMATION

Injection Formation(s) Bell Canyon Compatible Analysis ____

Source of Water or Injectate Delaware / Bone Spring

PROOF of NOTICE

YES Copy of Legal Notice YES Information Printed Correctly

YES Correct Operators YES Copies of Certified Mail Receipts

___ Objection Received ___ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

2nd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

3rd Contact: ___ Telephoned ___ Letter _____ Date Nature of Discussion _____

SWD 10-24-95

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

608

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Meridian Oil Inc.

Address: P.O. Box 51810 Midland, Tx 79710-1810

Contact party: Donna Williams Phone: 915-688-6943

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: Donna Williams Title Regulatory Compliance

Signature: _____ Date: 10/24/95

* 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.

MERIDIAN OIL

October 6, 1995,

Mr. David Catanach
Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, New Mexico 87505

RE: Application for Authorization to Dispose
Triste Draw 36 State No. 1
Ut. E, Sec 36, T23S, R32E
1980' FNL & 510' FWL
Lea County, New Mexico
State Lease No: V-3925

Mr. Catanach:

Meridian Oil Incorporated (MOI) is applying for authorization to convert the above referenced well for the purpose of water disposal. Attached is an injection well data sheet showing the current and proposed mechanical configuration of this well. A map is also attached showing the one-half mile area of review around the well. The required information from Form C-108 follows:

The proposed injection well will dispose of water produced from Meridian Oil leases from the Bone Spring & Delaware formation in the South Sand Dunes Bone Spring & Triste Draw Delaware fields. Our estimated initial injection rate will be 1000 BPD. The estimated maximum rate is 4000 BPD. We anticipate initial injection pressure to be +/- 600 psi, and request an operating maximum pressure of 1200 psi. The closed injection facilities will be equipped with high and low level head switches and will not operate continuously. No deeper aquifers containing usable quality water are known in this area.

III. Well Data

A. 1. The proposed converted well:
Triste Draw 36 State No. 1
1980' FNL & 510' FWL
Sec. 36, T23S, R32E
Lea County, New Mexico

2. Surface Casing: 13 3/8" 48# H-40 csg set @ 652'. Cmted w/700 sxs. TOC @ Surface.
Intermediate Casing: 8 5/8" 28#/32# K-55 csg set @ 4867'. Cmted w/2965 sxs. TOC @ Surface.
Long String: 5 1/2" 17# K-55 csg set @ 9150'. Cmtd w/860 sxs. TOC is Unknown. Lost Circ. w/98 bbl displacement

3. Injection Tubing: 2 7/8" 6.5# J-55 IPC tubing @ +/- 5,300'

4. Injection Packer: Baker Lokset (coated) set @ 5,300'

P.O. Box 51810, Midland, Texas 79710-1810, Telephone 915-688-6800
3300 N. "A" St., Bldg. 6, 79705-5406

B. 1. Injection Formation: Middle & Lower Bell Canyon

2. Injection Interval: 5364'-6138'

3. The well will be converted to be a disposal well

4. There will be no other open intervals in this injection well.

5. The next possible lower oil or gas zone is the Canyon Delaware located at approximately 7000'. Higher horizons (Ramsey Delaware) produce within the area of review.

IV. This is not an expansion of an existing Meridian Oil project.

V. Area of Review: See Exhibit 'A' which identifies the well's area of review.

VI. Tabulation of data: Well within area of review

1.) Well Name: Federal WL26 # 3
Location: 330' FSL & 660' FEL
Sec. 26, T23S, R32E
Lea County, New Mexico

Operator: Gene A. Snow
Well Type: Oil Total Depth: 5144'
Date Drilled: Spud - 3/26/62 Completed - 4/9/62
Completion Data: Perforated 5071'-5073'

Well is Currently Inactive.

2.) Well Name: James Federal # 1
Location: 660' FNL & 660' FEL
Sec. 35, T23S, R32E
Lea County, New Mexico

Operator: P-M Drilling Company
Well Type: Oil Total Depth: 5200'
Date Drilled: Spud - 1/26/61 Completed - 2/14/61
Completion Data: Perforated 5062'-5066'

Well is Currently Inactive.

3.) Well Name: James Federal # 2
Location: 660' FNL & 1980' FEL
Sec. 35, T23S, R32E
Lea County, New Mexico

Operator: P-M Drilling Company
Well Type: Oil — Total Depth: 5143'
Date Drilled: Spud - 3/2/61 — Completed - 4/7/61
Completion Data: Perforated 5031' - 5036'

Well is Currently Inactive

4.) Well Name: James Federal # 3
location: 1980' FSL & 1980' FEL
Sec. 35, T23S, R32E
Lea County, New Mexico

Operator: Palmer and McCarver
Well Type: Oil — Total Depth: 5110'
Date Drilled: Spud - 6/10/61 — Completed - 6/23/61
Completion Date: Well was drilled and abandoned
See Exhibit 'B'

5.) Well Name: Federal WL35 # 1
Location: 1650' FNL & 2310' FEL
Sec. 35, T23S, R32E
Lea County, New Mexico

Operator: Gene A. Snow
Well Type: Oil — Total Depth: 5110'
Date Drilled: Spud - 3/7/62 — Completed - 3/29/62
Completion Data: Perforated — 5030'-5034'

Well is Currently Inactive

6.) Well Name: Federal WL35 # 2
Location: 1650' FNL & 900' FEL
Sec. 35, T23S, R32E
Lea County, New Mexico

Operator: Gene A. Snow
Well Type: Oil — Total Depth: 5105'
Date Drilled: Spud - 3/16/62 — Completed - 3/29/62
Completion Data: Perforated — 5049'-5053'

Well is Currently Inactive

VII. Proposed Operation:

1.) Estimated average initial injection rate is 600 BWPD.
Estimated maximum daily rate is 1500 BWPD.

2.) This will be a closed system

3.) Estimated average injection pressure is 600 psi. Maximum estimated operating pressure is 1200 psi.

4.) Produced water from the Delaware and the First Bone Spring sand will be disposed of into the Middle & Lower Bell Canyon. Water analysis of produced water from the Delaware is included. See Exhibit 'C '.

5.) The injection interval is not productive of oil or gas within one (1) mile of the proposed well. For the injection zone water analysis, the data source is from the Dagger Lake '5' State No. 1 located in Sec. 5, T22S, R33E, Lea County, New Mexico. See Attached Water analysis. Exhibit 'D '.

VIII. Geological Data:

A.. Injection Zone -
Lithological Description: Sandstone, light gray fine to very fine grained, poorly consolidated, silty, poor calc. cement

Geological Name: Middle & Lower Bell Canyon

Zone of Thickness: 775'

Base of Zone Act: 6138'

B. Fresh Water Source -
Geological Name: Quarternary

Depth at Bottom of Zone +/-500'

Since there are no known water wells within a one half mile radius. We are submitting water analysis from two water wells located in Sec. 14, T22S, R32E, Lea County, New Mexico as representative of fresh water samples. See Exhibit 'E'.

IX. Proposed Stimulation:

The proposed stimulation program is +/- 15,000 gls 7.5% NEFE HCl.

X. Log Data - The logs from the Triste Draw 36 State No. 1 are included with the disposal interval marked. See Exhibit 'F'.

XI.. Fresh Water Analysis: There are no fresh water wells within a one mile radius of the proposed SWD well.

XII. Hydrologic Communication: There is no known evidence of faulting or other hydrologic communication between potential fresh water aquifers and the desired injection zone.

XIII. Proof of Notice: Proof of Notice is attached. Exhibit 'G'.

Notification of Offset Operators within a 1/2 mile radius:
Notification of Surface Owner
Proof of Publication

XIV. Certification: Certification is on Form C-108

INJECTION WELL DATA SHEET

Meridian Oil Inc.		Triste Draw '36' State		
OPERATOR		LEASE		
1	1980' FNL & 510' FWL	36	T23S	R32E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Lea County, NM

Schematic

Tubular Data

Surface Casing

Size 13 3/8" Cemented with 700

TOC surface feet determined by circulation

Hole size 17 1/2"

Intermediate Casing

Size 8 5/8" Cemented with 2965

TOC surface feet determined by circulation

Hole size 12¼"

Long String

Size 5½" Cemented with 860

TOC Unknown feet determined by Lost Circ.

Hole size 7 7/8"

Total Depth 9150'

Injection Interval

5364' feet to 6138' feet

Perforated with 2 JSPF

INJECTION WELL DATA SHEET

Tubing size 2 7/8" lined with _____ plastic coated _____ (material) set in a Baker Lokset _____ (brand and model) packer at 5300' +/- feet
(or describe any other casing-tubing seal).

OTHER DATA Non-productive of hydrocarbons

1. Name of the injection formation: Middle & Lower Bell Canyon

2. Name of Field or Pool (if applicable): for I.D. purposes - Triste Draw Delaware

3. Is this a new well drilled for injection? YES X NO

   If no, for what purpose was the well originally drilled? To be an oil producer

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used).
   Well was perfed as follows: 8528'-8579' (Delaware 'I'), set CIBP @ 8470' w/35' cmt on top, Perfed 7522'-7588' (Brushy Canyon Delaware), set CIBP @ 7490' w/35' cmt on top, perfed 7389'-7399' (Brushy Canyon Delaware), set CIBP @ 7335'. See attached wellbore schematic.

5. Give the depth to and name of any overlying and/or gas zones (pools) in this area.
   A Higher productive intervals (Ramsey Delaware) are in area of review. The next possible oil and gas zone is the Canyon Delaware sandstone located at approximately 7000'.

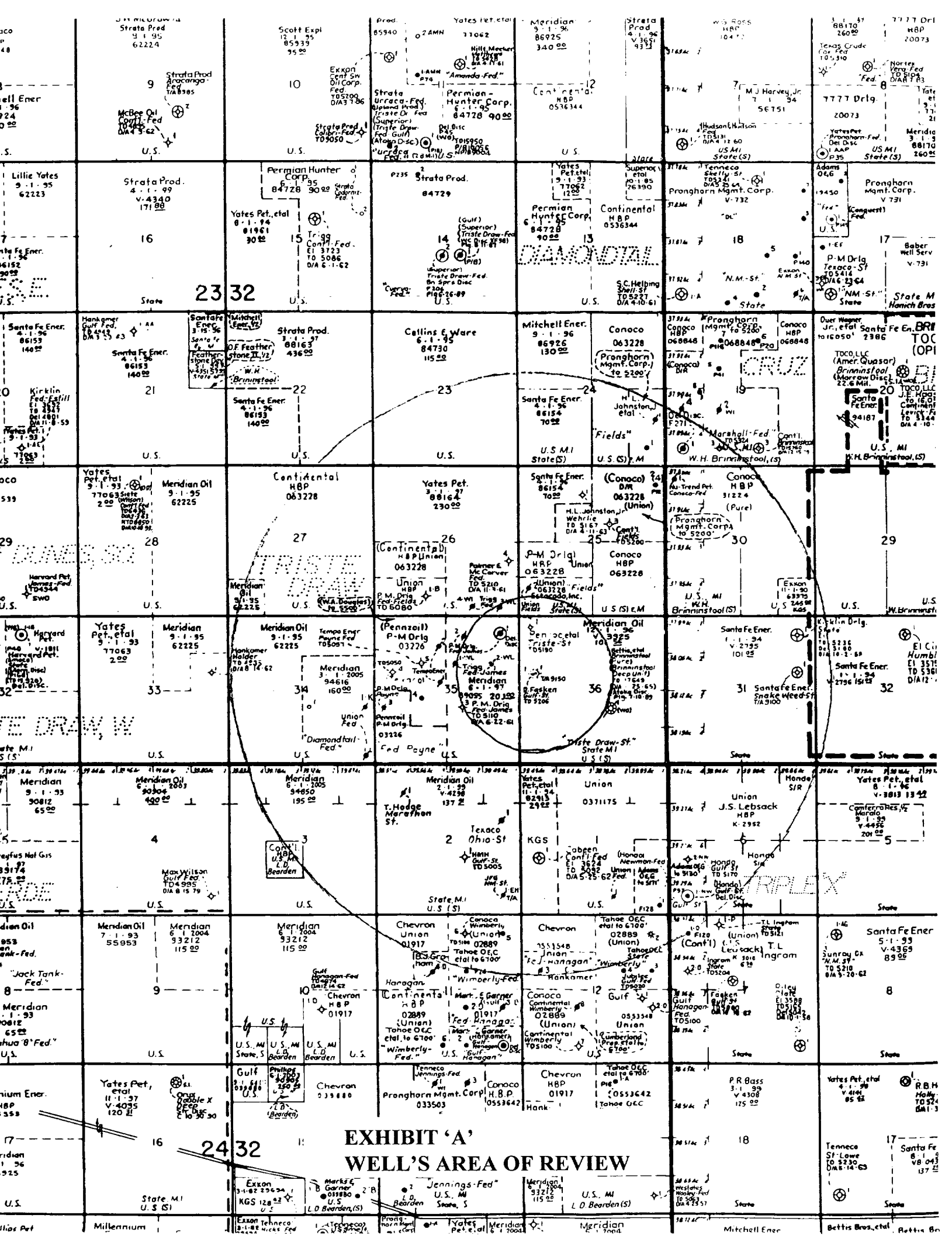


EXHIBIT 'A'
WELL'S AREA OF REVIEW
2332
2432
Strata Prod
Scott Expl
Yates Pet.etal
Meridian
Strata Prod
Lillie Yates
Permian Hunter Corp.
Yates Pet.,etal
Trigg
Continental
Pronghorn Mgmt. Corp.
Santa Fe Ener.
Mitchell Ener.
Conoco
Collins & Ware
Pronghorn Mgmt. Corp.
Yates Pet.etal
Meridian Oil
Continental
Yates Pet.
Santa Fe Ener.
(Conoco)
Conoco
Yates Pet.etal
Meridian
Meridian Oil
(Pennzoil)
Meridian Oil
Santa Fe Ener.
Meridian Oil
Meridian
Meridian Oil
Yates Pet.etal
Union
Union
Meridian Oil
Meridian
Chevron
Chevron
Tahoe O&C
Yates Pet.,etal
Gulf
Chevron
Conoco
Chevron
Tahoe O&C
P.R.Bass
Yates Pet.,etal
Exxon
Jennings-Fed
Meridian
Meridian
Millennium
Mitchell Ener.
Bettis Bros.,etal
U.S.
State
U.S. Mi
State, S
L.D. Bearden
L.D. Bearden(S)
U.S. (S) E.M
State M.I
U.S. (S)
Fields
Diamond Tail-Fed.
Fed-James
Fed-Payne
Wimberly-Fed.
Hanagan
Jack Tank-Fed.
Pronghorn Mgmt. Corp.
Tahoe O&C
Union
Conoco
Continental
Wimberly
Gulf
Hanagan
Jennings-Fed
Marks & Garner
Tenneco
Yates Pet.etal
Meridian
Mitchell Ener.
Bettis Bros.,etal

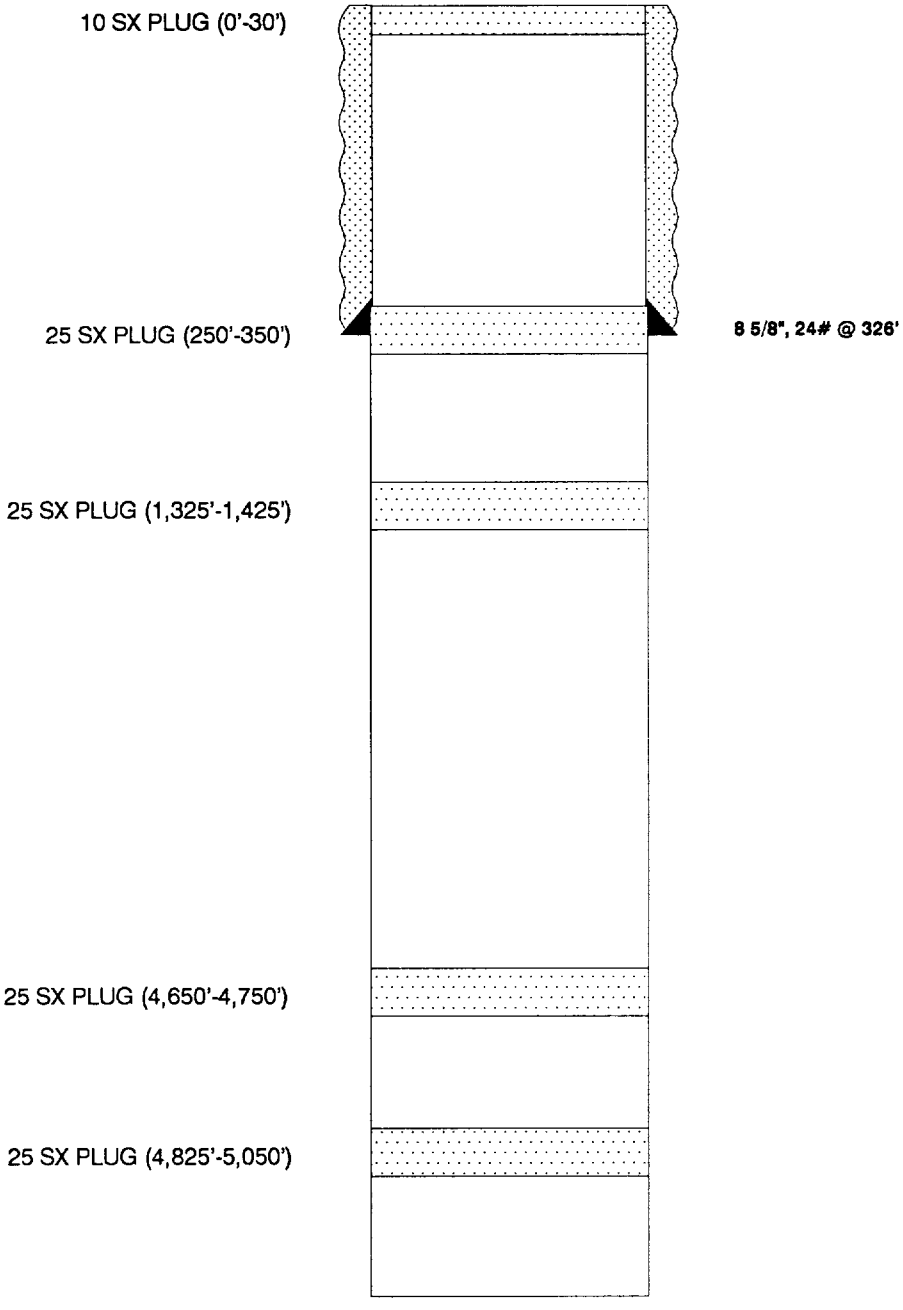
MERIDIAN OIL

FIELD: Triste Draw **DATE SPUD:** 06/11/61 **COMP:** 06/62

LEASE: Federal James **WELL NO.** 3 **ELEVATION:** 3,666' G.L.

LOCATION: 1,980' FSL & 1,980' FEL; SEC. 36, T-23-S, R-32-E

LEA COUNTY, NEW MEXICO



CURRENT CONFIGURATION

TD: 5,110'

lcp/FEDJAM.DRW
08/25/95

EXHIBIT 'B'
WELLBORE SCHEMATIC
D/A WELL

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Pete Harrington
P. O. Box 51810, Midland, TX 79710

LABORATORY NO. 594140
SAMPLE RECEIVED 5-17-94
RESULTS REPORTED 5-23-94

COMPANY Meridian Oil Company LEASE As listed
FIELD OR POOL
SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced water - taken from Little Jack 30 #1 (heater-treater). 5-11-94
NO. 2 Produced water - taken from Jack Tank 8 #2 (heater-treater). 5-11-94
NO. 3
NO. 4
REMARKS: Delaware

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1290	1.1963		
pH When Sampled				
pH When Received	5.56	5.45		
Bicarbonate as HCO_3	171	63		
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	29,500	93,000		
Calcium as Ca	10,000	30,400		
Magnesium as Mg	1,094	4,131		
Sodium and/or Potassium	65,017	75,114		
Sulfate as SO_4	494	63		
Chloride as Cl	120,700	181,760		
Iron as Fe	74.2	45.0		
Barium as Ba	0	147		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	197,476	291,678		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	0.058	0.047		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Total Dissolved Solids @ 180°F.	193,004	310,376		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We are not familiar with what field these wells are located in. In comparing with our records in this county, we note that the water from Jack Tank 8 #2 has characteristics very similar to what we would expect from natural Delaware except for the barium content. It is further noted that this water is significantly supersaturated with barium sulfate and therefore has potential for scaling and precipitation from this source. The water from Jack 30 #1 has ratios of salts comparable to what we would expect from natural Delaware in this county, but the levels of salts are lower and therefore indicated to be diluted as compared to natural Delaware. Contact us for any additional assistance in this matter.

Form No. 3

By Waylan C. Martin, M.A.

EXHIBIT 'C'
WATER ANALYSIS - PRODUCED WATER

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 99293

TO: Mr. Joe Small
P. O. Box 51810, Midland, TX 79710

SAMPLE RECEIVED 9-16-92

RESULTS REPORTED 9-18-92

COMPANY Meridian Oil Company LEASE Dagger Lake #1

FIELD OR POOL Wildcat

SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Recovered water - taken from Dagger Lake #1. 9-9-92

NO. 2 ____

NO. 3 ____

NO. 4 ____

EXHIBIT 'F'
WATER ANALYSIS - INJECTION ZONE

REMARKS: Delaware

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.1462			
pH When Sampled				
pH When Received	6.26			
Bicarbonate as HCO_3	146			
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	50,500			
Calcium as Ca	18,000			
Magnesium as Mg	1,336			
Sodium and/or Potassium	68,483			
Sulfate as SO_4	947			
Chloride as Cl	140,618			
Iron as Fe	90.0			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	229,531			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.053			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Total Dissolved Solids @ 180°C.	184,361			

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks We see a substantial change in the characteristics of water being recovered from this well as compared to the sample taken 9-2-92 and reported on laboratory #99210. Based on a comparison with our Delaware records in the general area of this well, the above water is indicated to be predominantly Delaware.

Form No. 3

By Waylan C. Martin, M.A.

EXHIBIT 'D'
WATER ANALYSIS - INJECTION ZONE

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 194218
SAMPLE RECEIVED 1-29-94
RESULTS REPORTED 2-2-94

TO: Mr. Kevin Midkiff
3300 North "A", Bldg. 6, Midland, TX 79705

COMPANY Meridian Oil Company LEASE Red Tank Federal
FIELD OR POOL
SECTION 14 BLOCK SURVEY T22&R32 COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Raw water - taken from west water well. 1-27-94
NO. 2 Raw water - taken from east water well. 1-27-94
NO. 3
NO. 4
REMARKS: Triasic 300'

CHEMICAL AND PHYSICAL PROPERTIES

	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0015	1.0013		
pH When Sampled				
pH When Received	7.09	7.10		
Bicarbonate as HCO_3	244	239		
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	192	188		
Calcium as Ca	41	38		
Magnesium as Mg	22	22		
Sodium and/or Potassium	108	79		
Sulfate as SO_4	178	123		
Chloride as Cl	30	26		
Iron as Fe	0.12	0.12		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	623	528		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	13.25	16.02		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	2.5	2.9		
Total Dissolved Solids @ 180°C.	544	468		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By Waylan C. Martin, M.A.

Form No. 3

EXHIBIT 'E'
WATER ANALYSIS - FRESH WATER

COMPUTALOG

CS400

SPECTRAL LITHODENSITY COMPENSATED NEUTRON

COMPANY MERIDIAN OIL INC. | WELL TRISTE DRAW "36" STATE #1 | FIELD TRISTE DRAW | COUNTY LEA | STATE NM

COMPANY MERIDIAN OIL- INC.

WELL TRISTE DRAW "36" STATE #1

FIELD TRISTE DRAW DELAWARE

COUNTY LEA STATE N.MEXICO

LOCATION
1980' FNL & 510' FWL

SEC. 36 TWP 23S RGE 32E

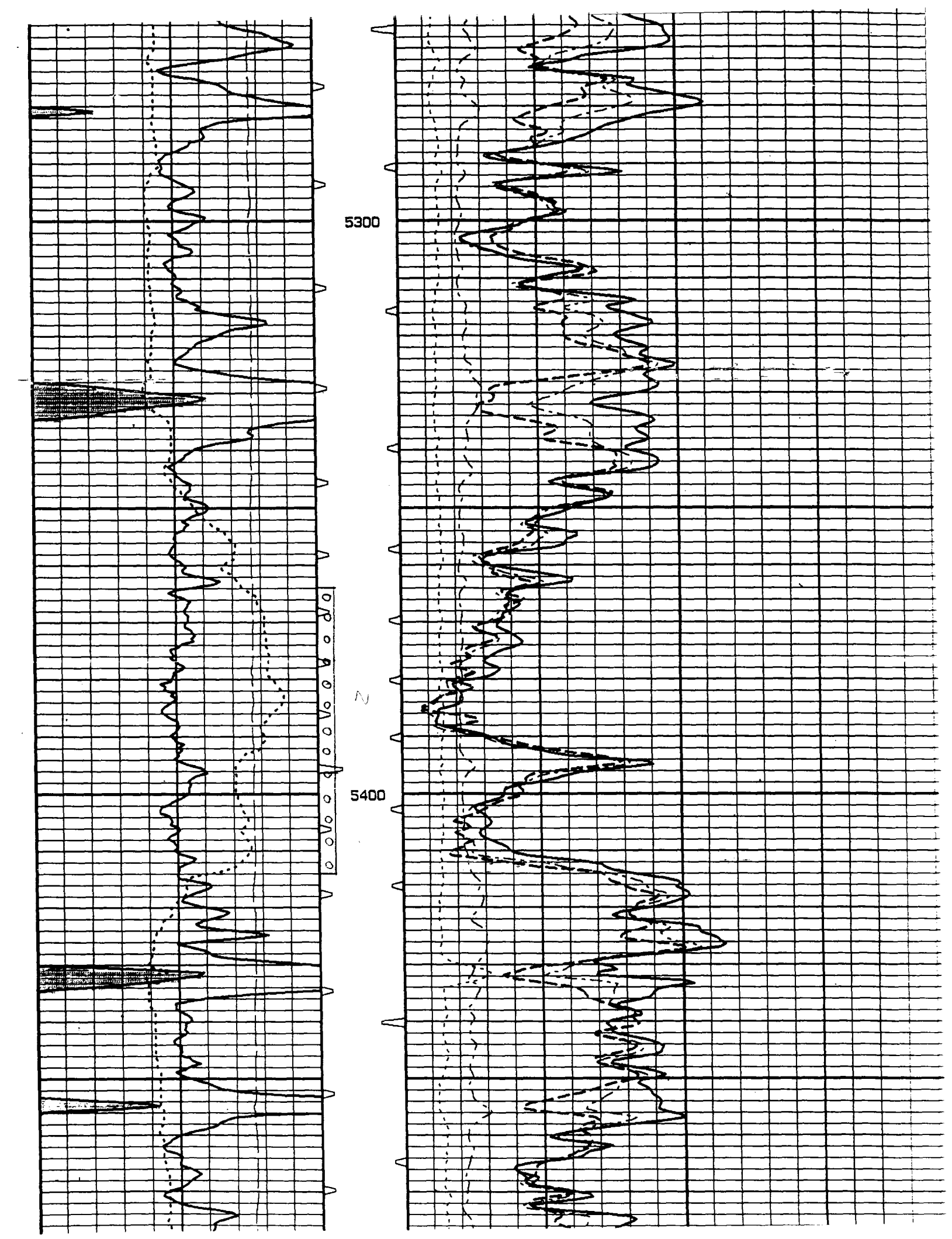
OTHER SERVICES:
DIL
SONIC
SED
RSCT

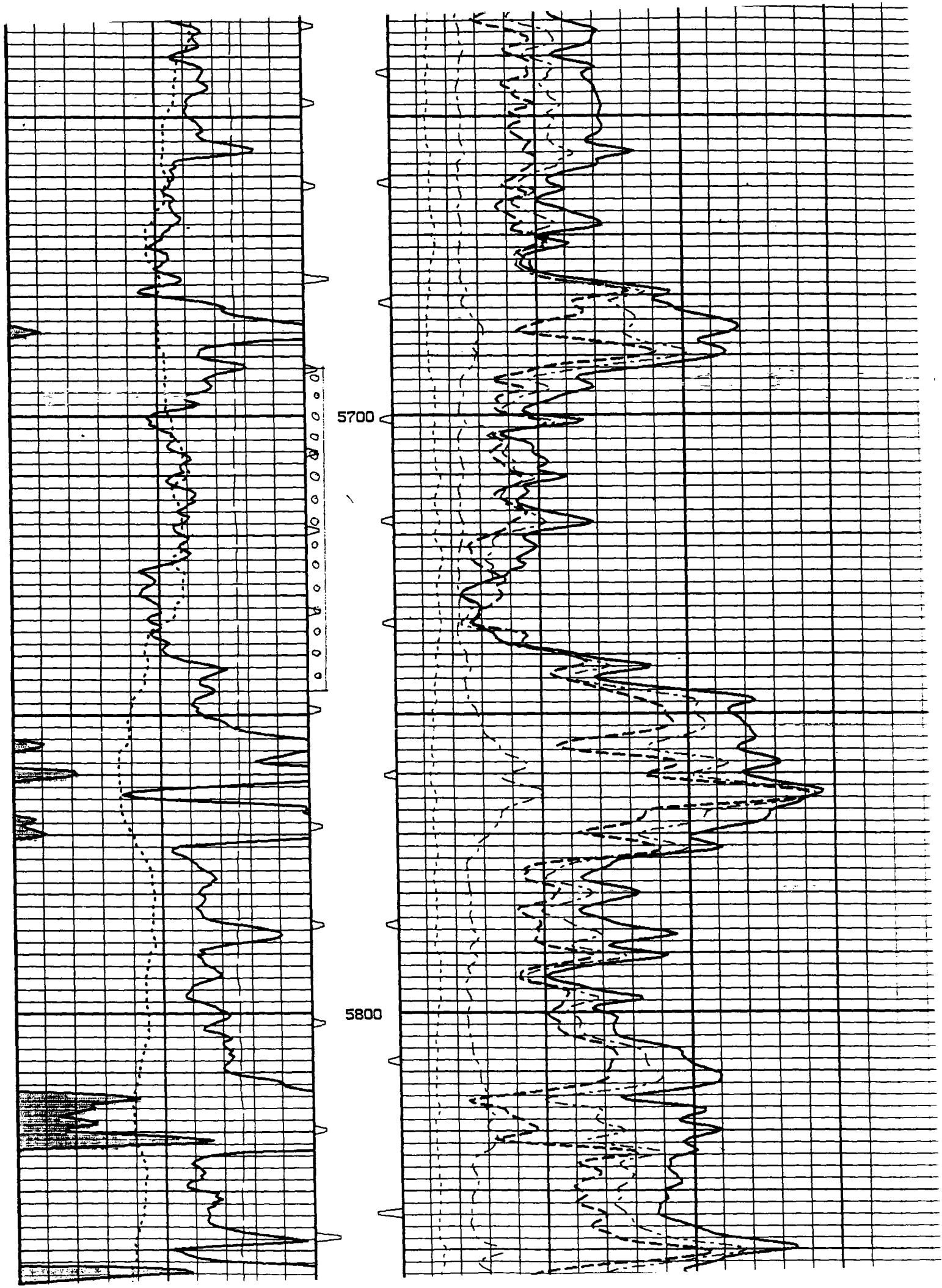
PERMANENT DATUM GL ELEV. 3682
LOG MEASURED FROM KB 18 FT. ABOVE PERMANENT DATUM
DRILLING MEASURED FROM KB

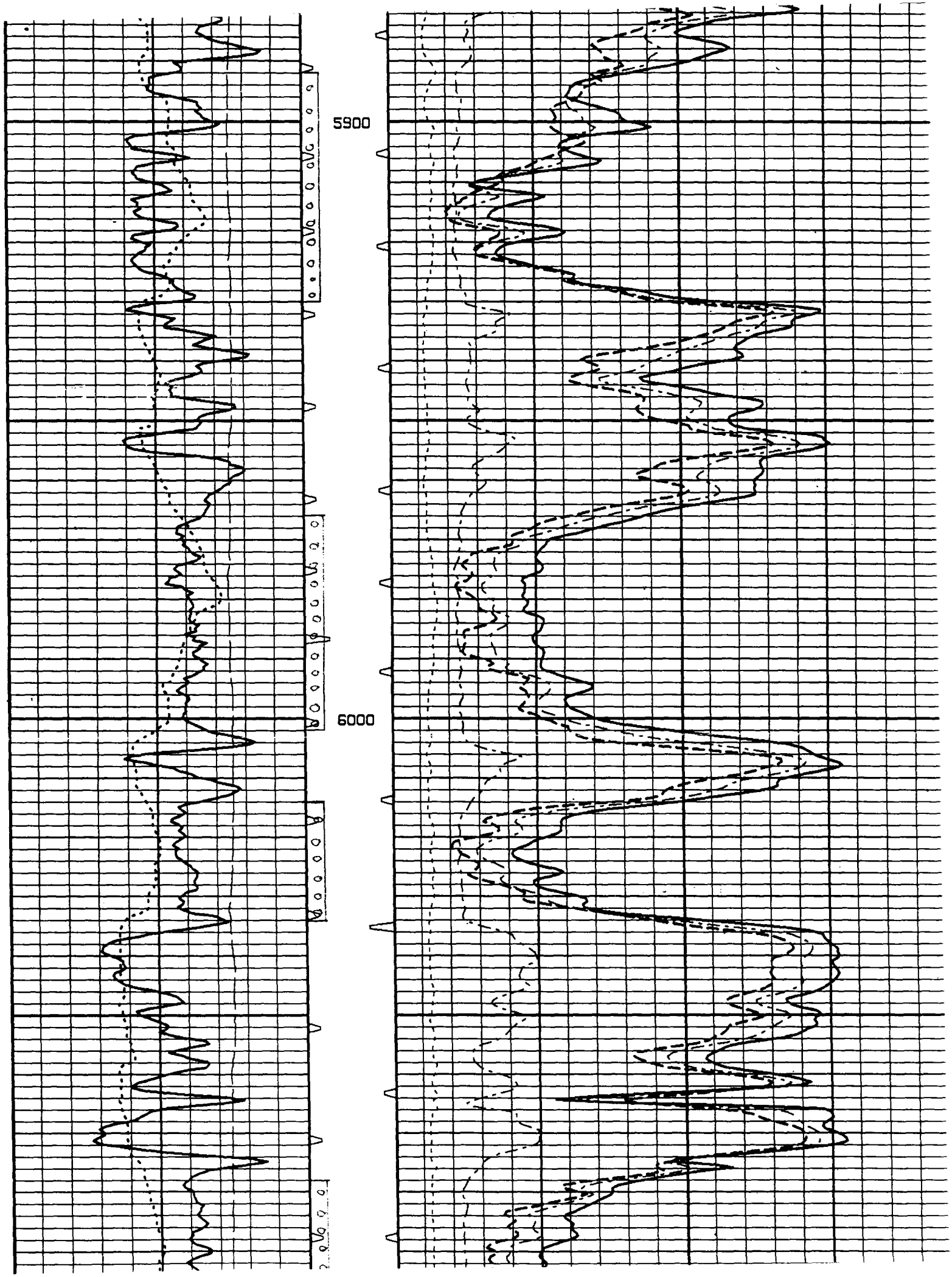
ELEV.: K.B. 3700
D.F. 3699
G.L. 3682

DATE	06/01/93			
RUN NO.	ONE			
DEPTH-DRILLER	9150			
DEPTH-LOGGER	9137			
BTM. LOG INTER.	9126			
TOP LOG INTER.	SURF.			
CASING-DRILLER	8-5/8 @ 4867	@	@	@
CASING-LOGGER	4858			
BIT SIZE	7-7/8			
FLUID TYPE	FRESH GEL			
DENS. | VISC.	9.2 | 34	|	|	|
PH | FLUID LOSS	10 | 13 ML	| ML	| ML	| ML
SOURCE OF SAMPLE	CIRC			
RM @ MEAS. TEMP.	1.23 @ 73 F	@ F	@ F	@ F
RMF @ MEAS. TEMP.	1.10 @ 74 F	@ F	@ F	@ F
RMC @ MEAS. TEMP.	1.80 @ 80 F	@ F	@ F	@ F
SOURCE: RMF/RMC	MEAS | MEAS	|	|	|
RM @ BHT	.68 @ 131 F	@ F	@ F	@ F
TIME SINCE CIRC.	6.5 HRS.			
MAX. REC. TEMP.	131 F @ TD	F@	F@	F@
EQUIP. | LOCATION	343 | ODES	|	|	|
RECORDED BY	BROWNLOW			
WITNESSED BY	J. LONG			

EXHIBIT 'F'
LOG DATA


5300
5400


5700
5800


5900
6000

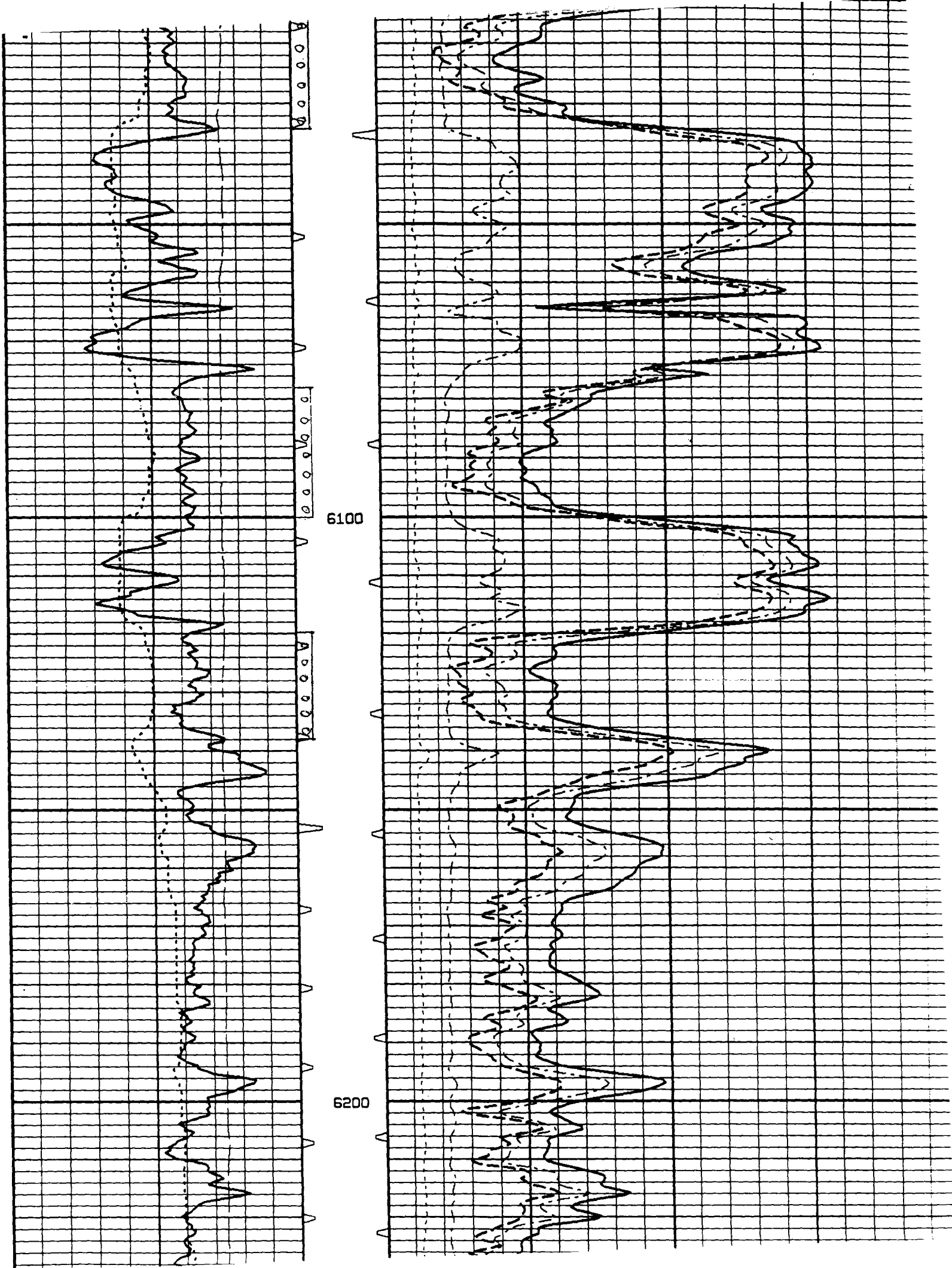

6100
6200

EXHIBIT 'G'
PROOF OF NOTIFICATION

I CERTIFY THAT A COPY OF THE DISPOSAL APPLICATION WAS MAILED TO THE FOLLOWING:

OFFSET OPERATORS WITHIN 1/2 MILE:

Estacado, Inc.
Box 5587
Hobbs, NM 88241

Yates Petroleum Corp.
105 S. 4th
Artesia, NM 88210

SURFACE OWNER:

Bureau of Land Management
P.O. Box 1778
Carlsbad, New Mexico 88221

NEWSPAPER:

Hobbs News Sun
201 N. Thorp
Hobbs, New Mexico 88240

BY CERTIFIED/RETURN RECEIPT MAIL ON THIS DATE:

Donna Williams, Regulatory Compliance

10/6/95

Date

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Yates Petroleum Corp.
105 S. 4th
Artesia, NM 88210

4a. Article Number
Z 740 400 413

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
10/5/95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

Thank you for using Return Receipt Service.

Your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☒ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Hobbs News Sun
201 N. Thorp
Hobbs, NM 88240

4a. Article Number
Z 740 400 412

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☒ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
10-7-95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)
Rosalie A. Harr

Thank you for using Return Receipt Service.

Your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:
Bureau of Land Mgmt.
P.O. Box 1778
Carlsbad, NM 88221

4a. Article Number
Z 740 400 415

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery
10-11-95

5. Signature (Addressee)

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

Thank you for using Return Receipt Service.

Your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

4a. Article Number
Z 740 400 414

4b. Service Type
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
10-10-95

8. Addressee's Address (Only if requested and fee is paid)

3. Article Addressed to:
Ashcado Inc.
Box 2587
Hobbs, NM 88241

5. Signature (Addressee)

6. Signature (Agent)

Your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1991 *U.S. GPO: 1993—352-714 **DOMESTIC RETURN RECEIPT**

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

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

October 11, 1995

and ending with the issue dated

October 11, 1995

Kathi Bearden
General Manager

Sworn and subscribed to before me this 18th day of October, 1995

Marilyn S. Hoffman
Notary Public.

My Commission expires
March 24, 1998
(Seal)

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.

LEGAL NOTICE
October 11, 1995

Meridian Oil Inc., P.O. Box 51810 Midland, Tx 79710-1810 Contact Party: Donna Williams (915-688-6943) is making application with the Oil Conservation Division in Santa Fe, New Mexico for authority to dispose of water in the afore mentioned wellbore, Triste Draw '36' State No. 1, Sec.36, T23S, R32E, 1980' FNL & 510' FWL, Lea County, New Mexico. The proposed disposal well will dispose of water produced from Meridian Oil leases from the Bone Spring and Delaware formation in the South Sand Dunes Bone Spring and Triste Draw Delaware fields into the Middle and Lower Bell Canyon formation 5364'-6138' which is non-productive of hydrocarbons. Estimated inital injection rate will be 1000 BPD. The estimated maximum injection rate is 4000 BPD. Anticipated initial injection pressure to be +/-600 psi and request an operating maximum pressure of 1200 psi. Any interested parties must file objections or request for hearing with the Oil Conservation Division, 2040 South Pacheco Street, Santa Fe, New Mexico 87505, within fifteen (15) days.

RECEIVED
OCT 23 1995