

DATE IN 11.8.10	SUSPENSE	ENGINEER WJ	LOGGED IN 11.8.11	TYPE SWD	APP NO. 1031251633
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



Golden Oil Holding  
(240787)  
Ticarville 70-7

**ADMINISTRATIVE APPLICATION CHECKLIST**

30-039-21827

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]  
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners  
[B] ☒ Offset Operators, Leaseholders or Surface Owner  
[C] ☒ Application is One Which Requires Published Legal Notice  
[D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,  
[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

MELINDA L. BILLON Melinda L. Billon mp 11-3-10  
Print or Type Name Signature Title Date  
mb@texgulf.com  
e-mail Address

**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
**RECEIVED OGD** (713) 626-1110

2010 NOV -1 P 1:40

Friday  
October 29, 2010

**By Certified Mail - RRR**

Mr. William Jones  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Water Disposal Well  
Jicarilla 70-7  
Rio Arriba County, New Mexico**

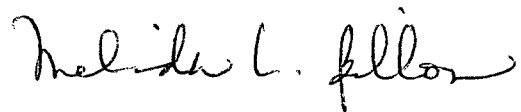
Dear Mr. Jones:

This letter transmits our Application for a Salt Water Disposal Permit for the captioned well located on the Jicarilla Indian Nation Reservation.

Feel free to call me at (713) 626-1110 if you have any questions or require additional information.

Thank you for your cooperation.

Sincerely,



Melinda Billon  
For: Golden Oil Holding Corporation

Enclosure

**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
(713) 626-1110

RECEIVED OCD

2010 NOV -8 P 1:14

Wednesday  
November 3, 2010

**By Regular Mail**

New Mexico Oil Conservation Division  
Engineering Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Water Disposal Facility  
Jicarilla 70-7Well  
Rio Arriba County, New Mexico**

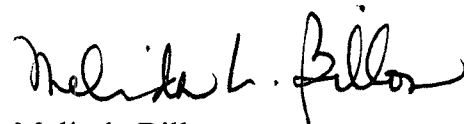
Dear Sir or Madam:

Please find enclosed the Administrative Application Checklist and the Permit Application sent to the Environmental Protection Agency and the New Mexico State Oil Conservation Division for approval to convert the above well to a water disposal facility.

If you have any questions please feel free to call me at (713) 626-1110.

Thank you for your consideration.

Sincerely yours,



Melinda Billon

Enclosure

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance ☒ Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: GOLDEN OIL HOLDING CORP.  
ADDRESS: 2000 BERING DRIVE SUITE 255 HOUSTON, TEXAS 77057  
CONTACT PARTY: MELINDA BILLON PHONE: 713 626 1110
- 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: MELINDA BILLON TITLE: ACCOUNTING MANAGER  
SIGNATURE: Melinda L. Billon DATE: 10/29/10  
E-MAIL ADDRESS: mb@texgulf.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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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.

Golden Oil Holding Corporation  
Jicarilla 70-7 Well  
Section 27, T24N, R4W

LIST OF ATTACHMENTS

- III. Well Data
- V. Area Maps which identify wells and leases within two miles of injection well
- VI. Wells within area of review
- VII. Data on proposed operation
- VIII. Geologic Data
- IX. Stimulation Program
- X. Logging and Test Data
- XI. Chemical analysis of fresh water wells
- XII. Statement of examination of data
- XIII. Proof of Notice

### III. WELL DATA

## INJECTION WELL DATA SHEET

OPERATOR: GOLDEN OIL HOLDING CORP.WELL NAME & NUMBER: 70-7 API # 30-039-21827WELL LOCATION: 1850' fsl & 790' fclUNIT LETTER: ISECTION: 27TOWNSHIP: T24NRANGE: R4W

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATIC

(See Attached Schematic)

WELL CONSTRUCTION DATASurface Casing

(See Attached Well Completion Report)

Hole Size: 9 5/8"Casing Size: 8-5/8"Cemented with: 200 sx.or ft<sup>3</sup>

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Intermediate Casing

Hole Size: \_\_\_\_\_

Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_, \_\_\_\_\_ sx.

or ft<sup>3</sup>

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Production CasingHole Size: 7 7/8"Casing Size: 4 1/2"Cemented with: 1450 sx.or ft<sup>3</sup>

Top of Cement: \_\_\_\_\_

Method Determined: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Injection Interval4760' feet to 5256'(Perforated or ~~Open~~ Hole) Indicate which)

INJECTION WELL DATA SHEET

Tubing Size: \_\_\_\_\_ Lining Material: \_\_\_\_\_ *see Attached Well Completion Report*

Type of Packer: \_\_\_\_\_

Packer Setting Depth: \_\_\_\_\_

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes ☒ No ☐  
 If no, for what purpose was the well originally drilled? Oil well

2. Name of the Injection Formation: MESA VERDE

3. Name of Field or Pool (if applicable): GALLUP DAKOTA - LINDRITH

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. SEE ATTACHED Completion Report

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: \_\_\_\_\_  
 Formation Tops in the Jicarilla #70-7: \_\_\_\_\_

Nacimiento -	Surface
Ojo Alamo -	2438'
Pictured Cliffs	- 2937'
Chacra	- 3300'
Cliff House -	4005'
Point Lookout	- 4730'
Mancos -	5250'
Gallup	- 6160'
Greenhorn -	7090'
Dakota	- 7170'

# Golden Oil Holding Corp Wellbore Schematic

Jicarilla 70 -7

Proposed Injection Status

Location: 1850' fsl & 790' fel  
Sec 27, T24N, R4W, NMPM  
Rio Arriba Co, New Mexico

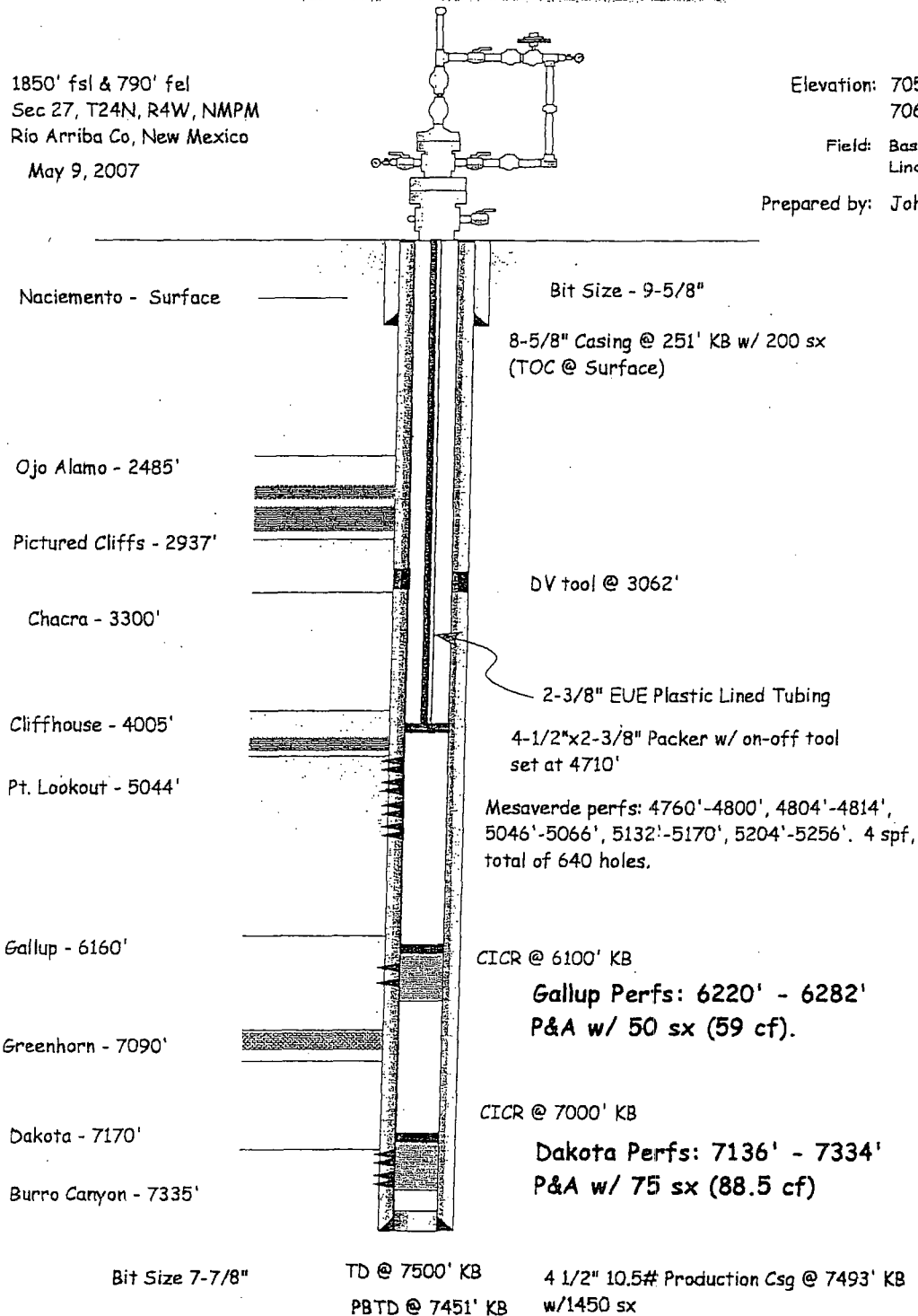
Prepared: May 9, 2007

Elevation: 7055' GL  
7067' RKB

Field: Basin Dakota/  
Lindrieth Gallup

Prepared by: John Thompson

Cretaceous



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)Form approved.  
Budget Bureau No. 41-R255.6.

## 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 <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla 70	
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. RESER. <input type="checkbox"/> Other <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache	
2. NAME OF OPERATOR Chace Oil Company, Inc.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 313 Washington SE Albuquerque, NM 87108		8. FARM OR LEASE NAME Jicarilla 70	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface Unit "I" 1850' SL and 790' EL At top prod. interval reported below At total depth		9. WELL NO. 7	
14. PERMIT NO.		13. STATE NM	
DATE ISSUED		12. COUNTY OR PARISH Rio Arriba	
15. DATE SPUDDED 8/9/80		10. FIELD AND POOL, OR WILDCAT Gallup Dakota - Lindrith S	
16. DATE T.D. REACHED 8/22/80		11. SEC. T., R., M., OR BLOCK AND SUBVEY OR AREA Sec. 27, T24N., R4W	
17. DATE COMPL. (Ready to prod.) 9/26/80		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7055 GR	
19. ELEV. CASINGHEAD 7056		20. TOTAL DEPTH, MD & TVD 7500'	
21. PLUG, BACK T.D., MD & TVD 7451'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Gallup 6220' - 6282' Dakota 7136' - 7334'	
25. TYPE ELECTRIC AND OTHER LOGS RUN Induction and formation density		26. WAS DIRECTIONAL SURVEY MADE Yes	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
Casing Size		Weight, Lb./Ft.	
8-5/8		24#	
4-1/2		10.5#	
Depth Set (MD)		Hole Size	
251'		9-5/8"	
7493'		7-7/8"	
Cementing Record		Amount Pulled	
200 sxs			
1450 sxs			
29. LINER RECORD		30. TUBING RECORD	
Size		Top (MD)	
Bottom (MD)		Sacks Cement*	
Screen (MD)		Size	
Depth Set (MD)		Packer Set (MD)	
2-3/8"		2-3/4"	
31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
6220' - 6282' - 42 shots, 1 shot per ft		Depth Interval (MD)	
7136' - 7334' - 28 shots, 1 shot per ft		Amount and Kind of Material Used	
		Fraced 110,665# 20-40 sand & 1506 bbls gel water	
		Fraced 81,000# 20-40 sand & 999 bbls gel water	
33. PRODUCTION		34. TEST WITNESSED BY	
Date First Production		Flowing	
Production Method (Flowing, gas lift, pumping—size and type of pump)		Well Status (Producing or Shut-in—waiting on pipeline)	
9/12/80		on pipeline	
Date of Test		Hours Tested	
9/25/80		3 hrs.	
Choke Size		Prod'n. for Test Period	
875		Oil-BBL	
Gas-MCF		Water-BBL	
45		Oil Gravity-API (Corr.)	
72		43	
360		8	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		35. LIST OF ATTACHMENTS	
TEST WITNESSED BY		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
Andy Birdsell		SIGNED <u>Reece M. Casper</u> TITLE President	
DATE 9/29/80			

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s) and bottom(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL DOWN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH TRUE VERT. DEPTH
Ojo	2485'		Sand, wet		
Pictured			Sandy		
Cliffs	2937'		Shale w/sand streaks		
Chacra	3300'				
Cliff			Hard sand		
House	4005'				
Point			Sand and shale		
Lookout	5200'		Sand and shale		
Gallup	6160'		Limey shale		
Greenhorn	7090'		Hard sand		
Dakota A	7170'		Hard sand		
Dakota D	7365'				



# Golden Oil

## WELL WORKOVER PROCEDURE

2/16/05

### Jicarilla 70 #7

South Lindrith Gallup/Dakota  
1850' FSL & 790' FEL, Section 27, T24N, R4W  
Rio Arriba County, New Mexico, API 30-039-21827  
Lat: \_\_\_\_\_ / Long: \_\_\_\_\_

**Well Data:**

<b>GL Elevation:</b>	7055' GR / _____ ' KB
<b>TD:</b>	7500' / 7451' PBTB
<b>Surface Casing:</b>	8.625" set at 251' with 200 sxs cement; circ. to surface;
<b>Production Casing:</b>	4.5' set at 7439'
	Cement Stage #1: 1150 sxs (1610 cf)
	TOC @ DV Tool
	Cement Stage #2: 350 sxs (554 cf)
	TOC @ 1236' (Calc, 75%)
<b>Completed:</b>	9/26/80
<b>Tubing:</b>	2-3/8" tubing at 7340'

#### Formation Tops:

Nacimiento @ 1150' \* est.  
Ojo Alamo @ 2438'  
Kirtland @ 2650'  
Fruitland @ 2715'  
Pictured Cliffs @ 2945'  
Mesaverde @ 4530'  
Gallup @ 5650'  
Dakota 7170'

#### Logging Record: Induction Density

**Stimulation:** Dakota: 7136' – 7156' and 7332' – 7334',

Frac'd w/ 81,000#, 20/40 sd, 999 bbls of gel wtr  
Gallup : 6220' – 6282', Frac'd w/3000#, 50 bpm flow  
Gallup: 6185' – 6191', 6354' – 6357',  
Frac'd w/110,665#, 20/40 sd, 1506 bbls of gel wtr

**Well History:** Well shut in June '05. No workover information of record

V. AREA MAPS WHICH IDENTIFY WELLS AND

LEASES WITHIN TWO MILES OF INJECTION WELL



ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping

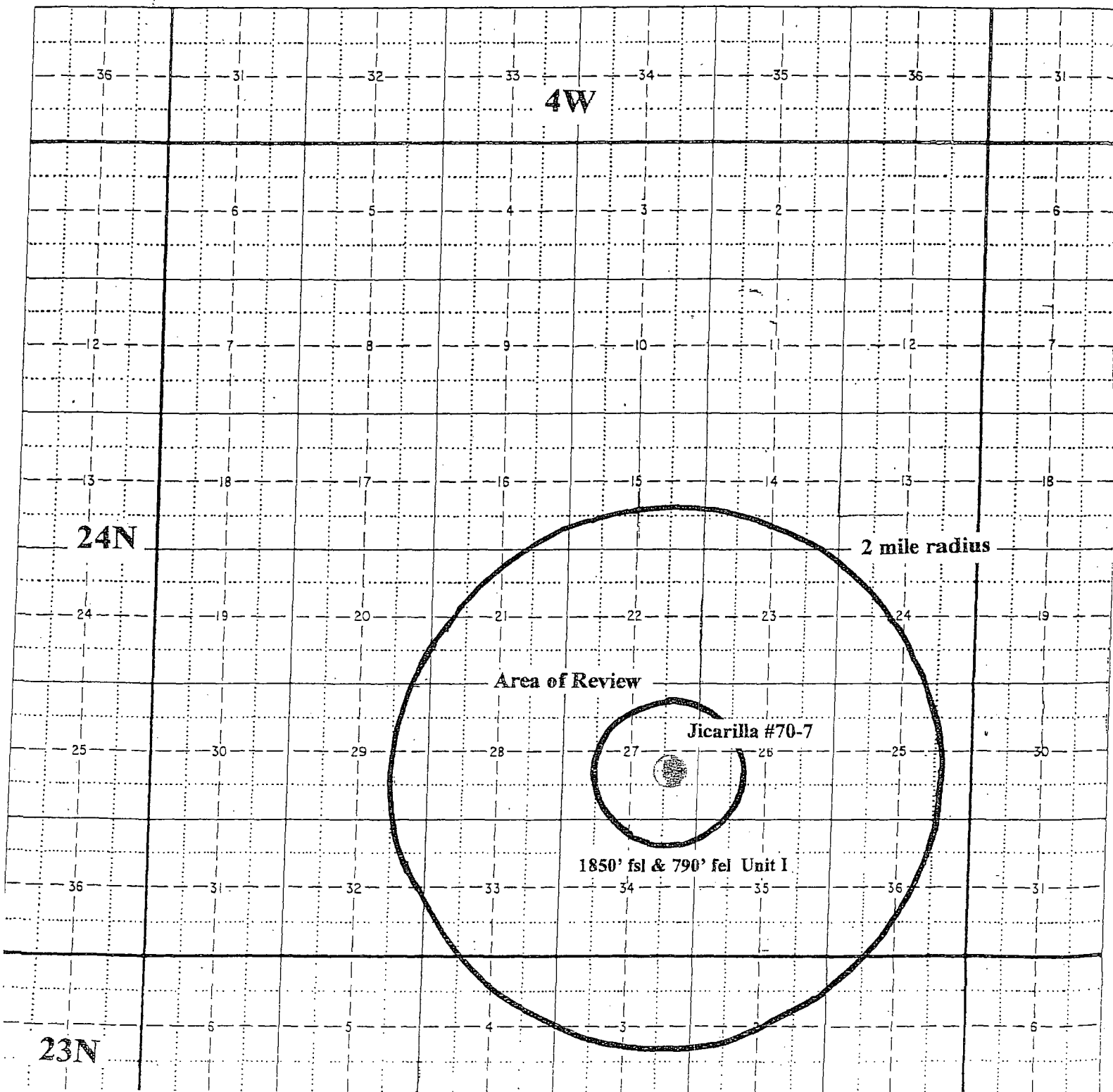
7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

Township 24N  
County Rio Arriba

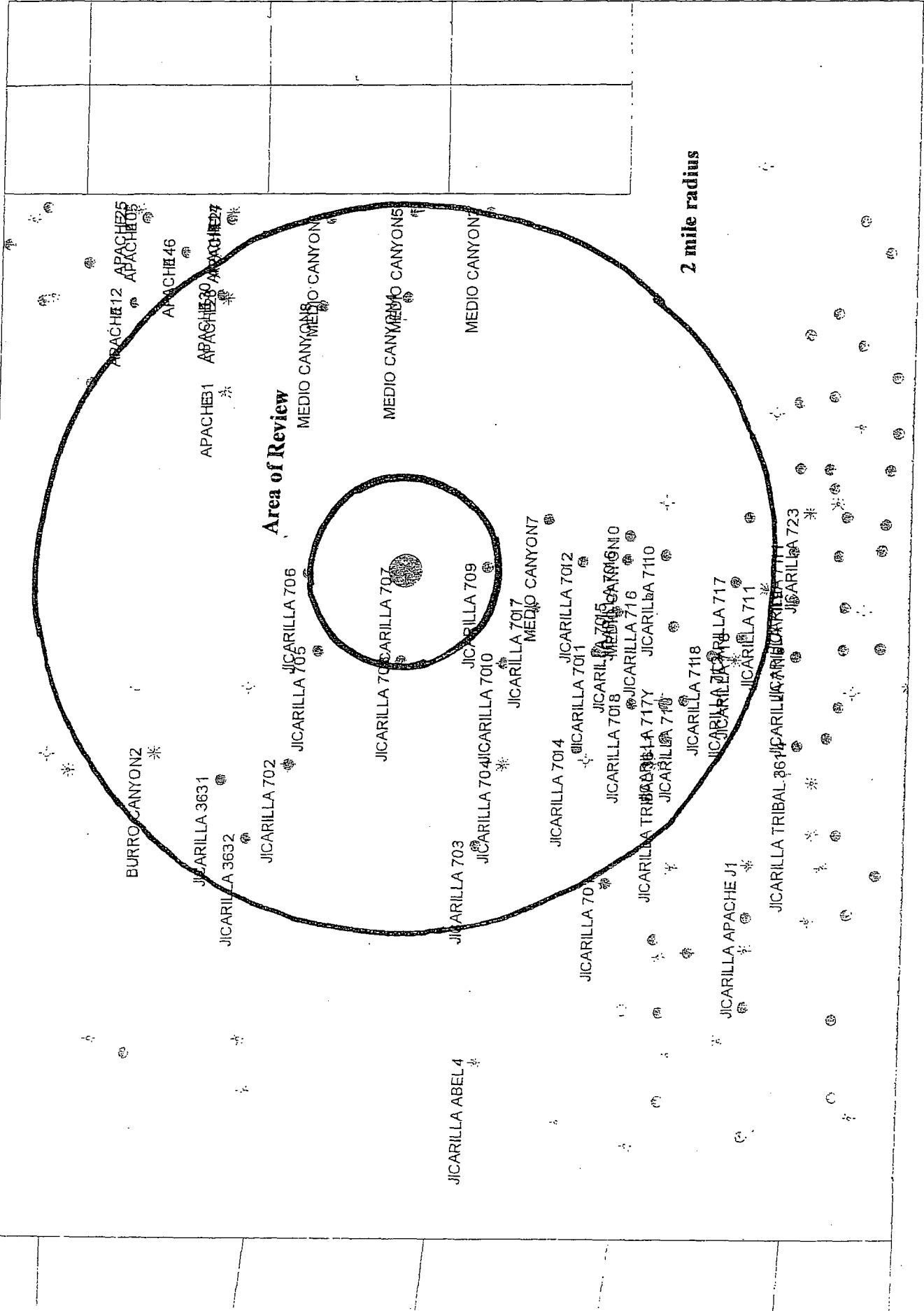
Range 4W  
State NM

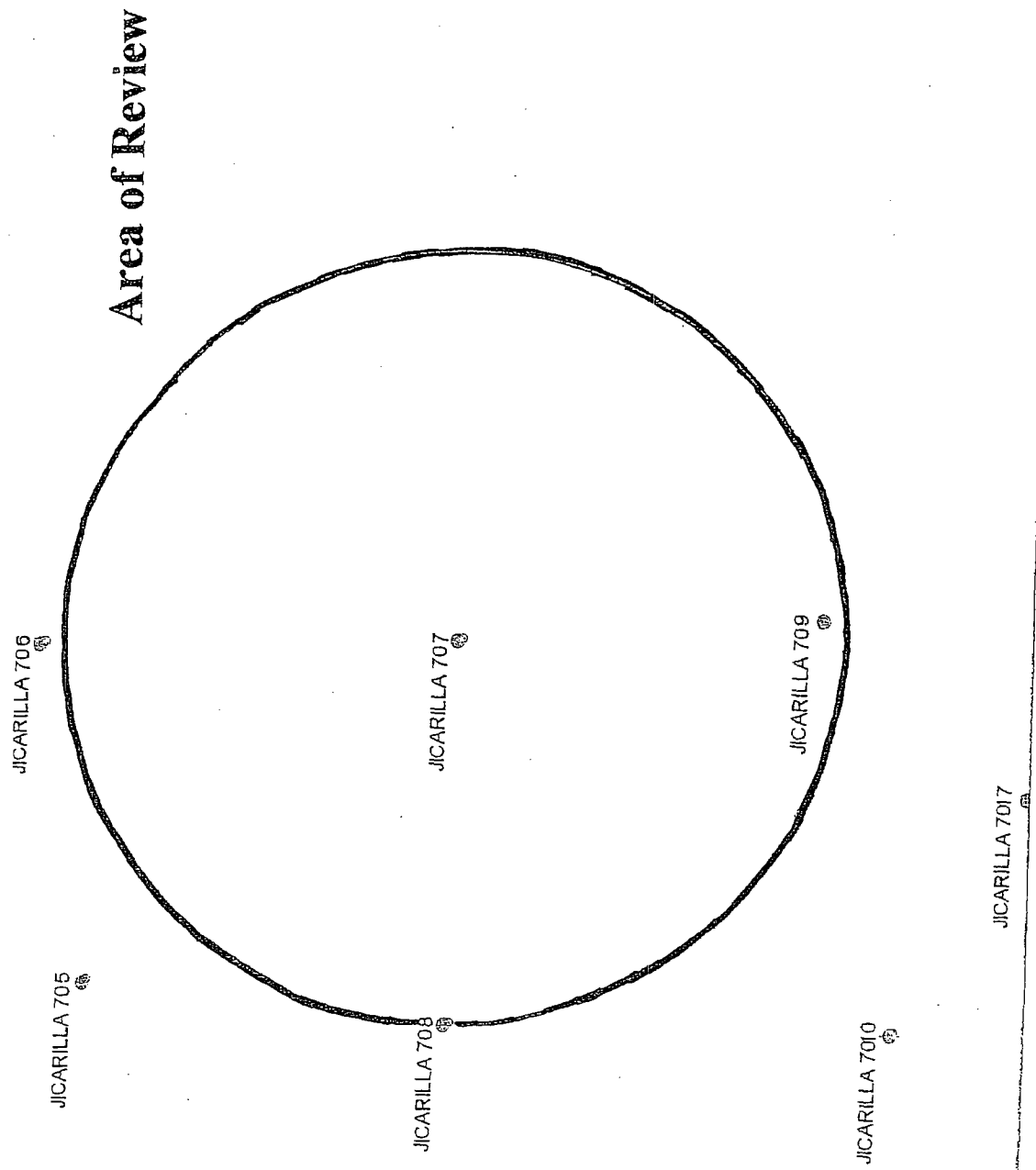
**Jicarilla #70 - 7**

**1850' fsl & 790' fel**



Date: 5/7/2007  
Time: 12:23 PM







## VI. WELLS WITHIN AREA OF REVIEW

**Golden Oil Holding Corporation**

**Jicarilla #70-7**

**Section 27, T24N, R4W**

**#3. Data on Wells within ½ mile radius of the proposed well.**

Other than the Jicarilla #70-7 well bore, there are three other wells that have penetrated the Point Lookout formation of the Mesa Verde group in the area of review.

Note: The Jicarilla 70-6 is not actually in the ½ mi radius (area of review) but close enough to the line that it will be included in the permit application.

The Jicarilla #70-6 was drilled to the Dakota formation. The well is located 790' fnl & 790' fel, Section 27 (Unit A), T24N, R4W, Rio Arriba County, NM. The well was drilled by Chace Oil Company, Inc. in May of 1981 and plugged/abandoned in October of 1991. A wellbore schematic is attached.

The Jicarilla #70-8 was drilled to the Dakota formation. The well is located 1850' fnl & 1750' fwf, Section 27 (unit K), T24N, R4W, Rio Arriba County, NM. The well was drilled by Chace Oil Company, Inc. in June of 1981 and plugged/abandoned in February of 2007. A well bore schematic is attached.

The Jicarilla #70-9 was drilled to the Dakota formation. The well is located 660' fnl & 660' fel, Section 34, T24N, R4W, Rio Arriba County, NM. The well was drilled by Chace Oil Company, Inc. in April of 1981 and plugged/abandoned in July of 2006. A well bore schematic is attached

# Golden Oil Holding Corp Wellbore Schematic

Jicarilla 70 -6

Current - Plugged & Abandoned Configuration

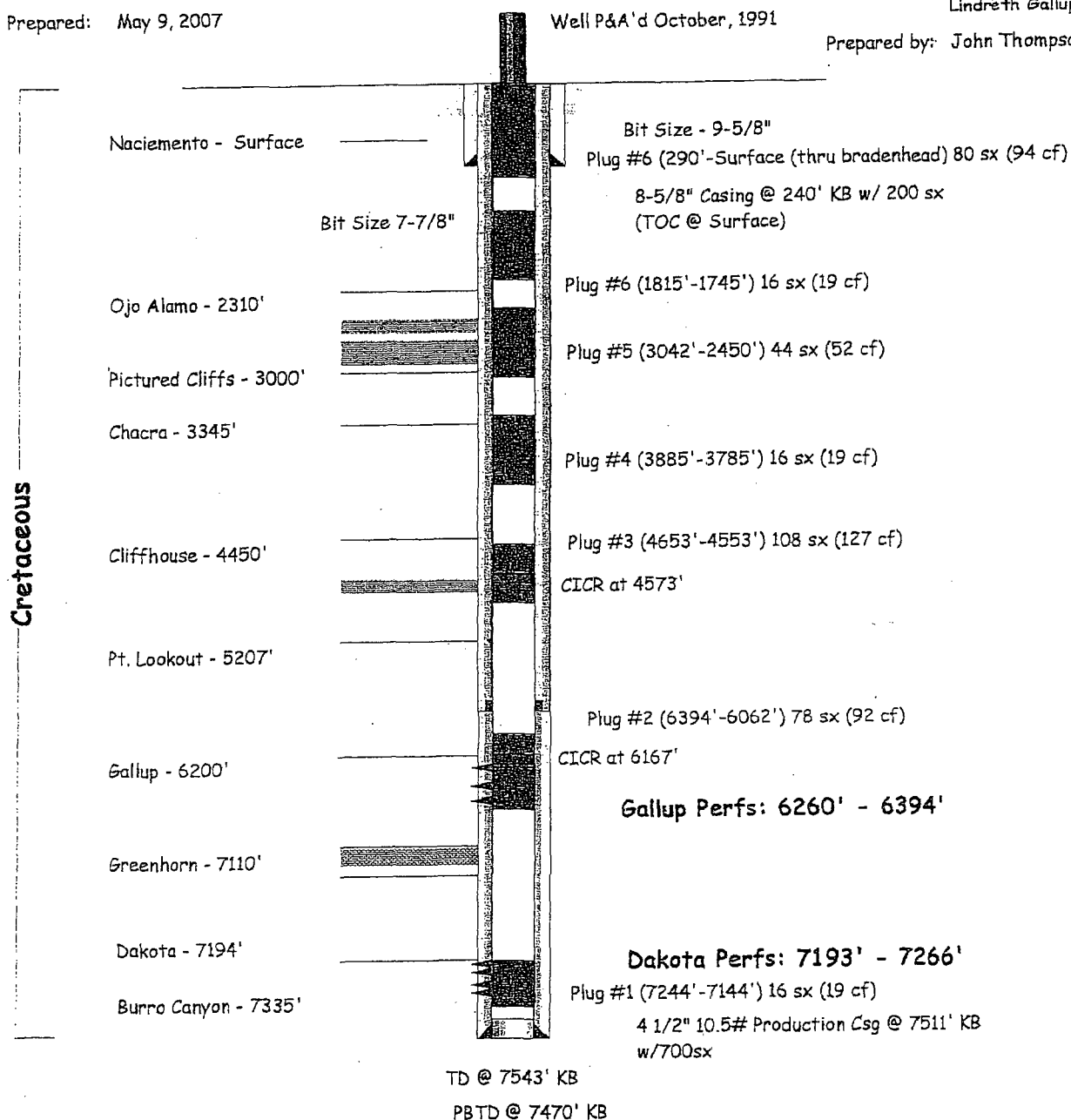
Location: 790' fnl & 790' fel  
Sec 27, T24N, R4W, NMPM  
Rio Arriba Co, New Mexico

Prepared: May 9, 2007

Elevation: 7059' GL  
7071' RKB

Field: Basin Dakota/  
Lindreth Gallup

Prepared by: John Thompson





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN DUPLICATE\*  
(See other in-  
structions on  
reverse side)Form approved,  
Budget Bureau No. 42-2355.6.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla 70																									
2. 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. LEVEL <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache																									
2. NAME OF OPERATOR Chace Oil Company, Inc.		7. UNIT AGREEMENT NAME																									
3. ADDRESS OF OPERATOR 313 Washington SE Albuquerque, NM 87108		8. FARM OR LEASE NAME Jicarilla 70																									
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface Unit "A" 790' NL and 790' EL At top prod. interval reported below At total depth		9. WELL NO. 6																									
14. PERMIT NO.		12. COUNTY OR PARISH Rio Arriba																									
DATE ISSUED		13. STATE NM																									
15. DATE SPUDDED 12/3/79	16. DATE T.D. REACHED 12/16/79	17. DATE COMPL. (Ready to prod.) 1/24/80	18. ELEVATIONS (DF, RES, RT, GR, ETC.)* 7059 GR																								
19. ELEV. CASINGHEAD 7061 GR	20. TOTAL DEPTH, MD & TVD 7543	21. PLUG, BACK T.D., MD & TVD 7470'	22. IF MULTIPLE COMPL., HOW MANY*																								
23. INTERVALS DRILLED BY → 0-7543			24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota - 7193 - 7266 Gallup - 6260 - 6376																								
25. WAS DIRECTIONAL SURVEY MADE Yes			26. TYPE ELECTRIC AND OTHER LOGS RUN Induction and Density Logs																								
27. WAS WELL CORED No			28. CASING RECORD (Report all strings set in well)																								
<table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>8-5/8"</td><td>24</td><td>240</td><td>9-5/8"</td><td>200 sxs</td><td>-</td></tr><tr><td>4-1/2"</td><td>10.5</td><td>7511</td><td>7-7/8"</td><td>500 sxs 1 stage</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>200 sxs 2 stage</td><td></td></tr></tbody></table>				CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED	8-5/8"	24	240	9-5/8"	200 sxs	-	4-1/2"	10.5	7511	7-7/8"	500 sxs 1 stage						200 sxs 2 stage	
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED																						
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				200 sxs 2 stage																							
29. LINER RECORD																											
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SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)																							
30. TUBING RECORD																											
<table border="1"><thead><tr><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACKER SET (MD)</th></tr></thead><tbody><tr><td>2-3/8"</td><td>7224</td><td>none</td></tr></tbody></table>				SIZE	DEPTH SET (MD)	PACKER SET (MD)	2-3/8"	7224	none																		
SIZE	DEPTH SET (MD)	PACKER SET (MD)																									
2-3/8"	7224	none																									
31. PERFORATION RECORD (Interval, size and number) Dakota 7260-66, 7220-32, 7193-7208, 2 shots per foot Gallup 6376-94, 6320-42, 6260-98, 1 shot per foot																											
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.																											
<table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>7193-7266</td><td>Fracked w/gel water 80,000# 20-40 sd &amp; 56,000 gal. water</td></tr><tr><td>6260-6394</td><td>Fracked w/gel water 150,000# 20-40 sd &amp; 76,650 gal. water</td></tr></tbody></table>				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	7193-7266	Fracked w/gel water 80,000# 20-40 sd & 56,000 gal. water	6260-6394	Fracked w/gel water 150,000# 20-40 sd & 76,650 gal. water																		
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33. PRODUCTION																											
DATE FIRST PRODUCTION 2/15/80																											
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pump																											
STATUS (Producing or Shut in) Shut in																											
DATE OF TEST 2/18/80																											
RODS TESTED 24																											
CHOKE SIZE 3/4"																											
PROD'N. FOR TEST PERIOD →																											
OIL—BBL. 39																											
GAS—MCF. 150																											
WATER—BBL. 0																											
OIL GRAVITY-API (CORR.) 3846																											
FLOW. TUBING PRESS. 150																											
CASING PRESSURE 600																											
CALCULATED 24-HOUR RATE →																											
OIL—BBL. 39																											
GAS—MCF. 150																											
WATER—BBL. 0																											
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented																											
35. LIST OF ATTACHMENTS ACCEPTED FOR RECORD																											
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records																											
SIGNED <u>Rayce M. Cary</u> TITLE <u>President</u> DATE <u>2/21/80</u>																											

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Seals Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:			38. GEOLOGIC MARKERS			
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES						
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo	2310	2400	Sand - waterbearing			
Pictured Cliffs	3000	3020	Sd - tite			
Chacra	3345	?	Shaley w/sd streaks			
Pt. Lookout	5207	5290	Sand w/shale streaks			
Gallup	6200	6470	Sd - hard tite w/shale interbedding			
Greenhorn	7110	7175	Shaley lime			
Dakota "A"	7194	7260	Sd w/shale streaks hd-tite			
Dakota "D"	7390	7410	Rd tite sd - no show			

(Formerly 9-331)

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EXPIRES AUGUST 31, 1985  
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	2. NAME OF OPERATOR Chace Oil Company, Inc.	3. ADDRESS OF OPERATOR 313 Washington SE, Albuquerque, NM 87108	4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit A (NE1/4NE1/4) 790 FNL and 790 FEL	5. LEASE IDENTIFICATION AND SERIAL NO. Jicarilla 70	6. IF NEARBY, ALLEGED OR TRUE NAME Jicarilla Apache	7. SURVEY ASSESSMENT NAME	8. NAME OF LEASE NAME Jicarilla 70	9. WELL NO. 6	10. FIELD AND FOOT, OR WILDCAT South Lindrith Gallup Dak	11. SEC., T., R., S., OR BLM AND SUBJECT OR AREA Sec 27 T24N R4W	12. COUNTY OR PARISH Rio Arriba	13. STATE NM
--	--	--	---	--	--	---------------------------	---------------------------------------	------------------	---	--	------------------------------------	-----------------

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER PRODUCTION	WATER SHUT-OFF	RETAINING WELL	
FRACURE FIRST	FRACURE TREATMENT	ALYSING CASING	
SHOOT OR ACIDIZING	SHOOTING OR ACIDIZING	ABANDONMENT	X
REPAIR WELL	(Other)	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
(Other)			

17. 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 defectively drilled, give substantial locations and measured and true vertical depths for all measures and zones pertinent to this work.)

Plugging Procedure:

- 1st 7244'-7144' Cement w/16 sks CL. 'B' Tagged TC @ 7069' Spot 12.5 Bbls mud
- 2nd 6260'-6394' Set Cement Retainer 6167' Cement w/70 sks CL 'B' - w/ 8sks  
(6394-6662) cement above retainer Spot 22 bbls mud
- 3rd 4653'-4553' Set Cement Retainer 4733' Cement w/90 sks CL 'B'- w/ 18 sks  
Cement above retainer Spot 10 bbls mud
- 4th 3885'-3785' Cement w/16 sks CL 'B' cement Spot 11 bbls mud
- 5th 3042'-2450' Cement w/44 sks CL 'B' from 3042-2450 Cement w/ 16 sks @ 2450'  
Perforated hole @ 2450' could not pump into - Spot 8 bbls mud
- 6th 1815'-1715' Cement w/16 sks CL 'B' spot 22 bbls mud
- 7th Perforate hole @ 290' Circ. cement to surface on backside w/80 sks.

Approved as to plugging of the well by  
Listed by under hand in relation to  
surface restoration is complete.

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

SIGNED [Signature]

TITLE Field Supervisor

DATE 10-16-91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

DATE 10-16-91

AREA MANAGER  
BIRMINGHAM RESOURCE

\*See Instructions on Reverse Side

Form 10-1922.  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

PERMIT IN TRIPPLICATE\*  
(Other instructions on reverse side)

U.S. GPO: Bureau Dep. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHERS <input type="checkbox"/>	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Chace Oil Company, Inc.	8. NAME OF LEASE NAME Jicarilla 70
3. ADDRESS OF OPERATOR 313 Washington SE, Albuquerque, NM 87108	9. WELL NO. 6
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit A (NE $\frac{1}{4}$ NE $\frac{1}{4}$ ) 790' FNL and 790' FEL	10. FIELD AND SECT. OR WILDCAT South Lindrith Gallup Dakota
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, ST, OR GEL.) 7059' GR
	11. SEC., T., R., E., OR S.W. 1/4 AND NEAREST OR ABRA Sec 27, T24N, R4W
	12. COUNTY OR PARISH Rio Arriba
	13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.)

Dry hole marker has been installed.

All pits filled and location recontoured ready for reseeding

Waiting on El Paso Natural Gas to remove meter run.

Will advise your office when seeding is scheduled.

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

SIGNED

TITLE Field Supervisor

DATE 1-3-92

(This space for Federal or State action use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

# Golden Oil Holding Corp Wellbore Schematic

Jicarilla 70 -8

Current - Plugged & Abandoned Configuration

Location: 1850' fsl & 1750' fwl (ne ne)  
Sec 27, T24N, R4W, NMPM  
Rio Arriba Co, New Mexico

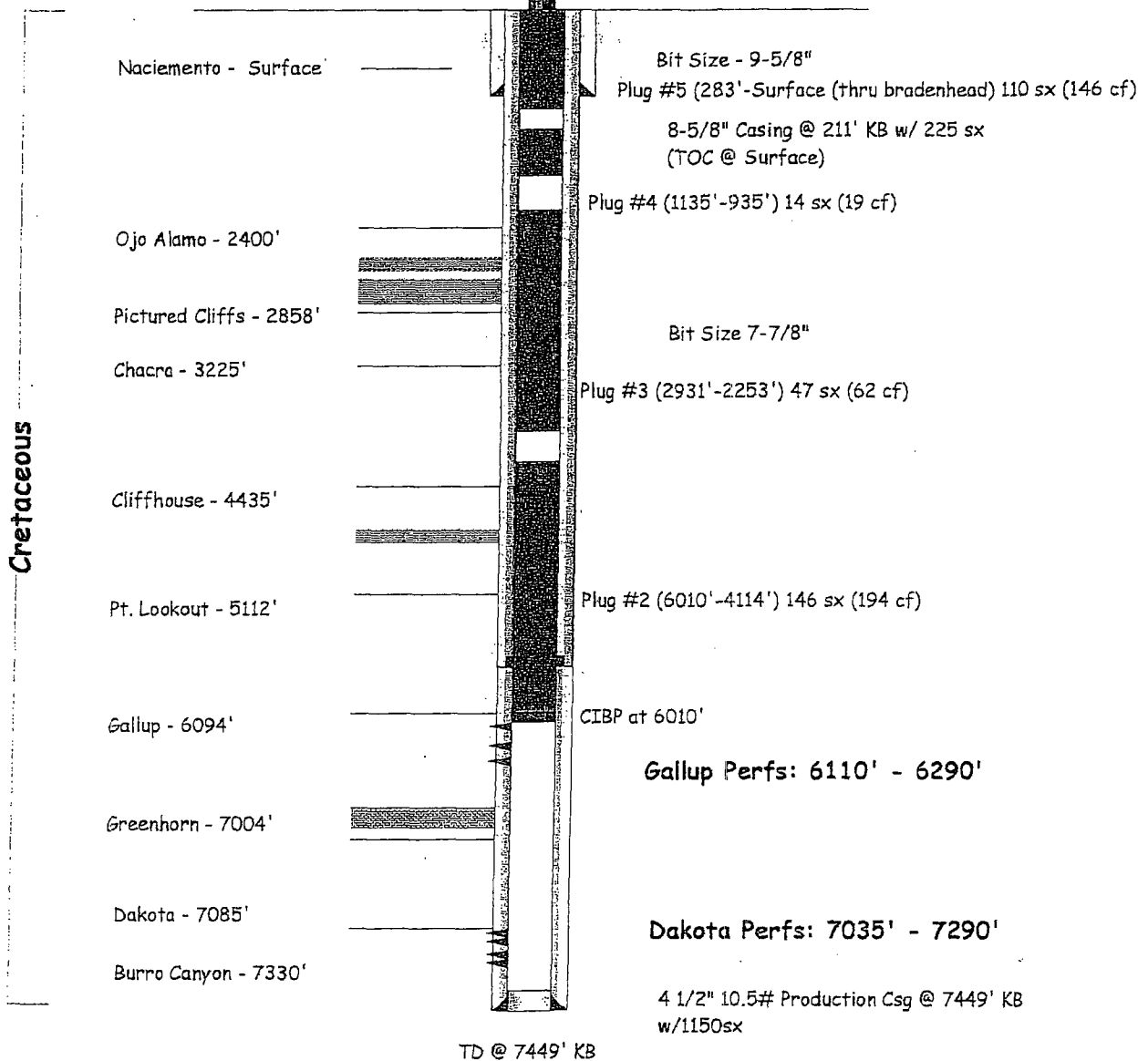
Prepared: May 9, 2007

Elevation: 7007' GL  
7019' RKB

Field: Basin Dakota/  
Lindreth Gallup

Prepared by: John Thompson

Well P&A'd Feb, 2007



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved -  
Budget Bureau No. 42-R255.5.

## 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 <input type="checkbox"/>		2. NAME OF OPERATOR Chace Oil Company, Inc.		5. LEASE, DESIGNATION AND SERIAL NO. Jicarilla 70	
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. REEVE <input type="checkbox"/> Other <input type="checkbox"/>		3. ADDRESS OF OPERATOR 313 Washington, S.E. Albuq., NM 87108		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME Jicarilla Apache	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface Unit "K" 1850' SL & 1750' WL At top prod. interval reported below At total depth		14. PERMIT NO.		7. UNIT AGREEMENT NAME	
15. DATE SPUDDED 5/12/81		16. DATE T.B. REACHED 5/23/81		8. FARM OR LEASE NAME Jicarilla 70	
17. DATE COMPL. (Ready to prod.) 7/15/81		18. ELEVATION (DT, RER, AT, OR, ETC.) KB 7019 GR 7007		9. WELL NO. 8	
19. ELEV. CASING HEAD 7008		20. TOTAL DEPTH, MD & TVD 7452		10. FIELD AND POOL, OR WILDCAT Dakota	
21. PLUG BACK T.B., MD & TVD 7411		22. IF MULTIPLE COMPL. HOW MANY?		11. SEC., T., R., M., OR BLOCK AND SURVEY Greenhorn Gallup	
23. INTERVALS DRILLED BY 0-7452		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7260-73, Dakota "D" Greenhorn 7006-7066 7085-46, Dakota "A" Gallup 6096-6287		12. COUNTY OR PARISH Rio Arriba N. Mex	
25. TYPE ELECTRIC AND OTHER LOGS RUN Induction - Density Logs		26. WAS DIRECTIONAL SURVEY MADE Yes		13. STATE N. Mex	
27. WAS WELL COOKED No		28. CASING RECORD (Report all strings set in well)		14. COUNTY OR PARISH	
29. LINER RECORD		30. TUBING RECORD		15. COUNTY OR PARISH	
31. PERFORATION RECORD (Interval, size and number) 6110'-13, 6122'-28, 6150-60, 6163-68', 6271-90', 7035'-50', 7060'-62', 7102'-24', 7270'-90' (1 shot per foot)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		16. COUNTY OR PARISH	
33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented		17. COUNTY OR PARISH	
35. LIST OF ATTACHMENTS Well History		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		18. COUNTY OR PARISH	
SIGNED <i>Larry M. Carr</i> President		BY <i>SA</i> DATE <i>8/7/81</i>		19. COUNTY OR PARISH	

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, on both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 30.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Item 22, and 24: If this well is completed for separate production from more than one interval zone (multiple completion); by state in item 22, and in item 24 show the producing interval; or intervals top(s), bottom(s) and name(s). (If any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Seals Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

SUMMARY OF FORMER ZONES:				DEPT. OF THE INTERIOR				GEOLOGIC MARKERS				WELL COMPLETION OR RECOMPLETION REPORT			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	DATE	DEPTH	TYPE OF COMPLETION	DATE OF COMPLETION	DATE OF RECOMPLETION	DATE OF RECOMPLETION	DATE OF RECOMPLETION	DATE OF RECOMPLETION	DATE OF RECOMPLETION		
Qjo	2400	5115	Sand wet	Same											
P. C.	2858	2905	Sd/sh str. - gas												
Chadra	3225	3840	Sd & shale												
Cliffhouse	4415	4520	Sd w/sh str. - wet												
Ht. lookout	5112	5172	Sd w/sh & coal str. - wet												
Gallup	6094	6288	Sh w/sh str. - oil & gas												
Greenhorn	7004	7067	Shaley lm - oil												
Dakota "A"	7085	7146	Sd/sh oil & gas												
Dakota "D"	7228	7290	Sd/sh oil & gas												
Burno Can.	7330		Sd - wet												

submitted in lieu of Form 3160-5

RCVD MAR 9 07  
OIL CONS. DIV.  
DIST. 3

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Sundry Notices and Reports on Wells

MAR -5 AM 11:37

1. Type of Well Oil		RECEIVED BLM 210 FARMINGTON NM	5. Lease Number Jicarilla 70
2. Name of Operator Golden Oil Holding Corporation			6. If Indian, All. or Tribe Name Jicarilla Apache
3. Address & Phone No. of Operator 2200 Post Oak Blvd., Suite 720, Houston, TX 77056 713-626-1110			7. Unit Agreement Name
Location of Well, Footage, Sec., T, R, M 1850' FSL & 1750' FWL, Section 27, T-24-N, R-4-W, Unit K			8. Well Name & Number Jicarilla 70 #8
			9. API Well No. 30-039-21828
			10. Field and Pool S. Lindrith Gallup-Dk
			11. County & State Rio Arriba, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action	
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	

13. Describe Proposed or Completed Operations

The above described well was plugged and abandoned on February 14, 2007 per the attached report.

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

Signed William F. Clark Title Contractor Date February 28, 2007  
William F. Clark..

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly 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.

MAR 07 2007

FARMINGTON FIELD OFFICE

NMOC



# A-PLUS WELL SERVICE, INC.

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 \* fax: 505-325-1211

Golden Oil Holding Corporation  
Jicarilla Apache 70 #8

February 16, 2007

Page 1 of 3

1850' FSL & 1750' FWL, Section 27, T-24-N, R-4-W  
Rio Arriba County, NM  
Lease: Jicarilla Contract #70  
API #30-039-21828

## Plug & Abandonment Report

### Work Summary:

Notified BLM / JAT / NMOCD on 2/8/07

- 1/30/07 MOL & RU. PU on polish rod, stuck. Unable to work rods free. SDFD due to poor weather conditions.
- 1/31/07 No work. Heavy snow packed and icy roads.
- 2/1/07 No work. Heavy snow packed and icy roads.
- 2/2/07 Check well pressures: 0 PSI. Unable to work rods free at 32,000#. Release and LD polish rod. ND wellhead. Attempt to pull tubing hanger, 72,000#, stuck. NU wellhead. PU tubing tongs. PU 7/8" rod and screw back into rod string. ND wellhead. Install N80 lift sub. Attempt to work tubing hanger free pulling 80,000#. Back off rods with 6,000# over string weight. Attempt to screw back into rods, 6,000# string weight. TOH and LD 2' - 7/8" rod, 4' - 7/8" sub, 6' 7/8" sub, 88 - 7/8" rods, and 23 - 3/4" rods. Top rods in hole at 2800'. ND wellhead. Install N80 joint. Attempt to pull tubing hanger at 85,000#. NU wellhead. Dig out and change bradenhead valve. SDFD.
- 2/5/07 Check well pressures: 50 PSI casing, 0 PSI tubing and bradenhead. Blow down well. ND wellhead. NU WSI B-1 adapter. Jack tubing hanger free and remove. Found tubing stuck. NU BOP, test. Attempt to work tubing free pulling 65,000#. Load casing with 12 bbls of production water. Establish rate 2 bpm at 500 PSI. Worked tubing for 3 hours, came free at 70,000#. Drug up hole for 6 stands. Drug every 40' on casing collar. Possible packer or anchor? TOH and tally 90 joints 2.375" tubing, found rods. Shut in well. SDFD.
- 2/6/07 Check well pressures: 25 PSI on casing and tubing, 0 PSI on bradenhead. Blow well down. Strip out of hole with rods and tubing. LD total: 88 - 7/8" rods and 200 - 3/4" rods. TOH and tally 220 joints 2.375" tubing, 4.5" tubing anchor, 10 joints 2.375" tubing and SN. Last joint had top down hole pump stuck in it. Last 10 joints had heavy scale with holes and pits. TIH 4.5" casing scraper and SN with standing valve to 5000'. Shut in well. SDFD.
- 2/7/07 Open up well, no pressure. TIH with remaining tubing to put casing scraper at 6030'. Load tubing with 4 bbls 3% KCl, pressured up to 900 PSI, bled down to 0#. Popped hole in tubing. TOH with 68 stands, LD 2 joints with pin holes and 2 joints with pits. TIH with 2.375" tubing to 6032'. Test OK at 1500#. RU retrieving tools on sandline. RIH with 2.375" and retrieve standing valve. TOH with 95 stands, single joint, SN and 4.5" casing scraper. RIH with 4.5" PlugWell CIBP and set at 6010'. Shut in well. SDFD.

# A-PLUS WELL SERVICE, INC.

P.O. BOX 1978

Farmington, New Mexico 87499

505-325-2627 \* fax: 505-325-1211

Golden Oil Holding Corporation  
Jicarilla Apache 70 #8

February 16, 2007

Page 2 of 3

## Work Summary - Continued:

- 2/8/07 Open up well, light blow. TIH with 4.5" full bore packer and 2.375" tubing to 6001'. Load hole with 4 bbls 3% KCl. Circulate hole clean with an additional 100 bbls of water. Set packer. Pressure test CIBP to 1500 PSI, held OK. Release packer. PUH to 5214' and set. RU on tubing. Attempt to pressure test casing from 5214' to 6010', pressured up to 1000 PSI, bled off to 350 PSI in 30 seconds. RU pumps on casing. Attempt to pressure test casing from 5214' to surface and establish rate 2 bpm at 400 PSI. Establish full circulation out bradenhead during test. RIH looking for good casing. Set packer at 5687'. Attempt to pressure test casing from 5687' to 6010'. Got communication above packer. Establish full circulation out casing 2 bpm at 400 PSI. Found multiple casing leaks, did not isolate them. Golden Oil decided to p&a well. Notify Steve Mason, BLM, Farmington; Bryce Hammond, JAT - BLM representative and Henry Villanueva, NMOCD representative. TOH with packer. Test casing OK from 250' to surface at 800 PSI. POH and LD packer. Shut in well. SDFD.
- 2/9/07 Open up well, no pressure. TIH with 2.375" tubing and tag CIBP at 6010'. Load hole with 20 bbls of water and establish circulation. Procedure change approved by Bryce Hammond, JAT - BLM representative, to bring TOC on Plug #2 to 4894' due to holes in casing; plan to pump extra 27 sxs cement to combine Plugs #2 and 3.  
Plug #2 and 3 with CIBP at 6010', spot 116 sxs Type III cement (154 cf) inside the casing from 6010' up to 4300' to isolate the Gallup interval and cover the Cliffhouse top. TOH with tubing. WOC. Shut in well. SDFD.
- 2/12/07 Open up well, no pressures. TIH and tag cement at 4565'. Cement fell back 265'. Load hole with 3.5 bbls of water. Circulate an additional 7 bbls of water.  
Plug #2a and 3a spot 30 sxs Type III cement (40 cf) inside the casing from 4565' up to 4123' to cover the Cliffhouse top.  
TOH with tubing. WOC. TIH with tubing and tag cement at 4114'. PUH to 2931'. Load hole with 4 bbls of water.  
Plug #4 with 47 sxs Type III cement (62 cf), inside the casing from 2931' up to 2253' to cover the Pictured Cliffs, Fruitland, Kirtland and Ojo Alamo tops.  
PUH with tubing. WOC. Shut in well. SDFD.
- 2/13/07 No pressure. TIH and tag cement at 2318'. PUH to 1135'.  
Plug #5 with 14 sxs Type III cement (19 cf), inside the casing from 1135' up to 935' to cover the Nacimiento top.  
TOH with tubing. WOC. TIH with tubing and tag cement at 1045'. TOC approved by Bryce Hammond, JAT. TOH and LD all tubing. Load casing with 4 bbls of water. Establish circulation out bradenhead. Circulate BH annulus with 36 additional bbls of water. Unable to clean up. TIH with 4.5" DHS CR and set at 283'. Establish circulation out bradenhead. After 1 bbl of water, got circulation out tubing. Establish rate 2 bpm at 450 PSI. Holes below CR communicate with hole above CR at 250 PSI. TOH and LD tubing. Pump dye test twice. Calculated capacity with no dye returns out bradenhead. Shut in well. SDFD.

**A-PLUS WELL SERVICE, INC.**

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 \* fax: 505-325-1211

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Golden Oil Holding Corporation  
Jicarilla Apache 70 #8

February 16, 2007

Page 3 of 3

**Work Summary - Continued:**

2/14/07 Open up well, no pressure. Load casing with 3.5 bbls of water and establish circulation out casing.

Plug #8 pump 110 sxs Type III cement (146 cf) down the 4.5" casing from 283' to surface, circulate good cement returns out the bradenhead valve. Shut in well. Had good cement from ground around wellhead.

Dig out wellhead. ND BOP. Issue Hot Work Permit. Cut off wellhead. Found cement at surface in the casing and down 2' in the annulus.

Mix 35 sxs Type III cement and install P&A marker.  
RD rig.

R. Whiteley, A-Plus Rig Superintendent, was on location on 2/2/07.

B. Hammond, BLM - JAT representative, was on location 2/9/07 through 2/14/07.

# Golden Oil Holding Corp Wellbore Schematic

Jicarilla 70 -9

Current - Plugged & Abandoned Configuration

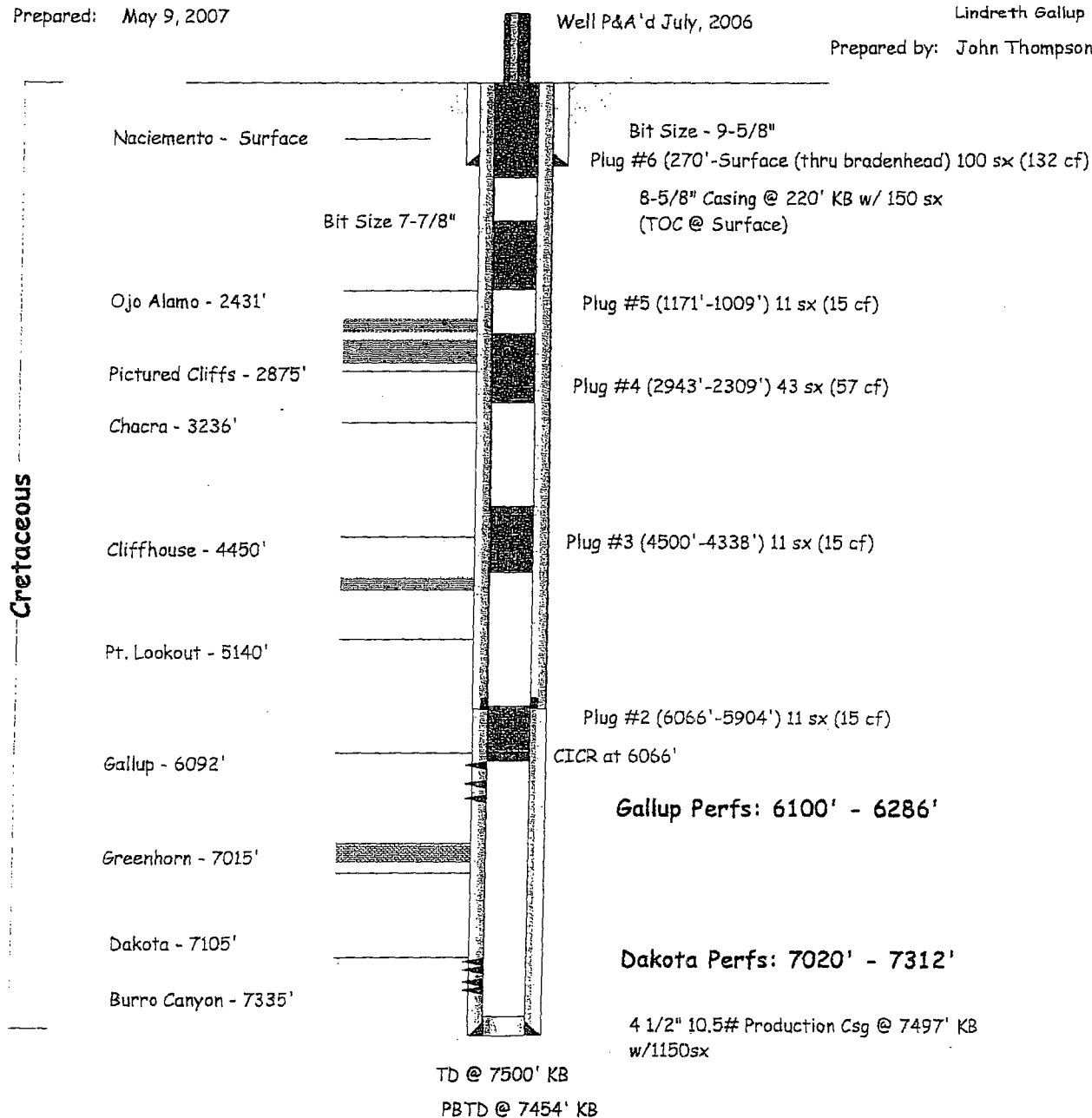
Location: 660' fnl & 660' fel  
Sec 34, T24N, R4W, NMPM  
Rio Arriba Co, New Mexico

Prepared: May 9, 2007

Elevation: 7009' GL  
7021' RKB

Field: Basin Dakota/  
Lindreth Gallup

Prepared by: John Thompson



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved -  
Budget Bureau No. 42-2355.6

## 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 <input type="checkbox"/>		2. NAME OF OPERATOR Chace Oil Company, Inc.		3. ADDRESS OF OPERATOR 313 Washington, S.E. Albuquerque, NM 87108		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface Unit "A", 660' NL & 660' EL At top prod. interval reported below At total depth		5. LEASE DESIGNATION AND SERIAL NO. Jicarilla 70		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Apache		7. UNIT AGREEMENT NAME		8. FARM OR LEASE NAME Jicarilla 70		9. WELL NO. 9		10. FIELD AND POOL, OR WILDCAT S. Lindreth, Gallup		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 34, T24N, R4W		12. COUNTY OR PARISH Rio Arriba		13. STATE New Mexico	
15. DATE SPUDDED 4/15/81		16. DATE T.D. REACHED 4/29/81		17. DATE COMPL. (Ready to prod.) 8/3/81		18. ELEVATIONS (DF, REB, RT, GR, ETC.) 7009' GR		19. ELEV. CASINGHEAD 7010'		20. TOTAL DEPTH, MD & TVD 7500'		21. PLUG, BACK T.D., AD & TVD 7454'		22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 0-7500'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dakota "D" - 7288-7328' Greenhorn - 7020-7092' Dakota "A" - 7104-7154' Gallup - 6094 - 6300'		25. WAS DIRECTIONAL SURVEY MADE Yes					
26. TYPE ELECTRIC AND OTHER LOGS RUN Induction & Density Logs		27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)		29. LINER RECORD		30. TUBING RECORD		31. PERFORATION RECORD (Interval, size and number) 7292'-7312' (all perfs. shot per ft.) 7020'-23', 7047'-53', 7063'-67', 7070'-72', 7108'-12', 7130'-38', 6100'-6286', Frack'd 81,000 #20-40sd 1619 Bbls gel water		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. SEE ATTACHED WELL HISTORY		33. PRODUCTION DATE FIRST PRODUCTION 6/30/81 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Intermittent flow & pump WELL STATUS (Producing or shut-in) pumping		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented		35. LIST OF ATTACHMENTS Well History and Csq. program		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records SIGNED <u>Robert M. Carey</u> TITLE <u>President</u> DATE <u>8/7/81</u>					

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

NMOCC

# INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 23 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s). (If any); for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Seals Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

31. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND PERMEABILITY; CEMENTED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			32. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo	2431	2600	same		
P.C.	2875	2891			
Chadra	3236	3855			
Cliff House	4450	4508			
Pt. Lookout	5140	5187			
Gallup	6092	6295			
Greenhorn	7015	7086			
Dakota "A"	7105	7172			
Dakota "D"	7290	7310			
Burro Can.	7355	7482			
			Sd - wet		
			Sd - Poss. Gas		
			Sd - Sh Strs. Hd Tite		
			Sd - Sh Strs. Hd Tite Wet		
			Sd/w/coal Straks		
			Hd Sd w/sh Strks. Gas - oil		
			Im/sh - Hd Oil show		
			Sd/w/sh Strks. oil - gas		
			Sd/w/sh Strks. oil - gas		
			Sd - wet no show		

**A-PLUS WELL SERVICE, INC.**

P.O. BOX 1979

Farmington, New Mexico 87499

505-325-2627 \* fax: 505-325-1211

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Golden Oil Holding Corporation  
**Jicarilla Apache 70 #9**

July 18, 2006

Page 1 of 1

660' FNL & 660' FEL, Section 34, T-24-N, R-4-W  
Rio Arriba County, NM  
Lease Number: Jicarilla Contract #70  
API #30-039-22682

**Plug & Abandonment Report**

**Work Summary:**

Notified BLM / JAT on 7/13/06

- 7/13/06 MOL. RU rig. ND wellhead. NU BOP. TIH 4.5" casing scraper to 6066'. Procedure change approved by Steve Mason, BLM and Henry Villanueva, NMOCD, to skip plug #1. SDFD.
- 7/14/06 Open well. TOH and LD casing scraper. TIH with 4.5" DHS CR and set at 6066'. Load tubing with 17 bbls of water. Pressure test tubing to 700#, held OK for 5 minutes. Sting out of CR. Load hole with water and circulate clean with a total of 110 bbls of water. Pressure test casing to 500# for 5 minutes. Attempt to contact BLM field representative; none available.  
Plug #2 with CR at 6066', mix and pump 11 sxs Type III cement (15 cf) inside the casing up to 5904' to isolate the Gallup perforations and to cover the Gallup top. PUH to 4500'. Load hole with 3 bbls of water.  
Plug #3 spot 11 sxs Type III cement (15 cf) inside the casing from 4500' to 4338' to cover the Cliffhouse top.  
PUH. Shut in well and WOC overnight.
- 7/17/06 Open well. Load hole with 3 bbls of water.  
Plug #4 spot 43 sxs Type III cement (57 cf) inside the casing from 2943' up to 2309' to cover through the Ojo Alamo top.  
PUH to 1171'. Load hole with 3 bbls of water.  
Plug #5 spot 11 sxs Type III cement (15 cf) inside the casing from 1171' up to 1009' to cover the Nacimiento top.  
TOH and LD all tubing. Load hole with 2 bbls of water. Perforate 3 holes at 270'. Load hole with 11 bbls of water and circulate well clean with an additional 30 bbls.  
Plug #6 mix and pump 100 sxs Type III cement (132 cf) down the 4.5" casing from 270' to surface, circulate good cement out the bradenhead.  
ND BOP. Dig out and cut off wellhead. Found cement at surface in the annulus. Mix 20 sxs Type III cement and install P&A marker.  
RD and MOL.

B. Hammond, JAT - BLM representative, was on location on 7/17/06.

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well  
Oil

2. Name of Operator  
Chace Oil c/o  
Golden Oil Holding Corporation

3. Address & Phone No. of Operator  
2200 Post Oak Blvd., Suite 720, Houston, TX 77027 713-826-1418

Location of Well, Footage, Sec., T, R, M  
660' FNL & 660' FEL, Section 34, T-24-N, R-4-W, Unit A

5. Lease Number  
Jicarilla 70

6. If Indian, All. or  
Tribe Name  
Jicarilla Apache  
Unit Agreement Name

8. Well Name & Number  
Jicarilla 70 #9

9. API Well No.  
30-039-22682

10. Field and Pool  
S. Lindrith Gallup-Dakota

11. County & State  
Rio Arriba, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Conversion to Injection

13. Describe Proposed or Completed Operations

The above described well was plugged and abandoned on July 18, 2006 per the attached report.

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

Signed William F. Clark Title Contractor Date July 18, 2006  
William F. Clark

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
CONDITION OF APPROVAL, if any:

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

ACCEPTED FOR RECORD

AUG 07 2006

NMOC

FARMINGTON FIELD OFFICE



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☒ well gas ☐ well other ☐
2. NAME OF OPERATOR  
Chace Oil Company, Inc.
3. ADDRESS OF OPERATOR  
313 Washington, S.E. Albuq., N.M.
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
Unit "A" 660' NL & 660' EL  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) Spud well

SUBSEQUENT REPORT OF:

RECEIVED  
APR 1 1981  
U. S. GEOLOGICAL SURVEY  
FARMINGTON DISTRICT

5. LEASE  
Jicarilla 70-9
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Jicarilla Apache
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME  
Jicarilla 70
9. WELL NO.  
9
10. FIELD OR WILDCAT NAME  
Lindreth-Gallup-Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 34, T24N-R4W
12. COUNTY OR PARISH Rio Arriba 13. STATE New Mexico
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
7009' GR

17. 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.)\*

4/10/81 Let Drilling Contract to Young Brothers Drilling Co.

4/17/81 M Construction completed location and road.

4/15/81 Spuded well at 5:30 p.m. Set 5 joints (208.89 ft.) of casing. Casing set 220.89  
K.B. Cemented with 150 sacks of Class B 2% calcium chloride. Circulated 7 bbls of cement. Plugged down at 11:54 p.m.

4/16/81 Present time WOC

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED [Signature] President DATE 4/16/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

ACCEPTED FOR RECORD

APR 21 1981

\*See Instructions on Reverse Side

FARMINGTON DISTRICT

BY 2

## VII. DATA ON PROPOSED OPERATION

## Attachment VII

Golden Oil Holding Corporation  
Jicarilla 70-7 Well  
Section 27, T24N, R4W

### Information on Proposed Operation:

1. Average injection rate – 1000 bwpd.  
Maximum injection rate – 2000 bwpd.
2. System is an open system.
3. Maximum injection pressure is estimated to be 1,904 psi.
4. See attached water analysis reports.
5. See attached water analysis report.

(5)

## Golden Oil Company

County: San Juan

State: NM

Sampled at: wellhead

Date: August 2, 2006

H &amp; M Precision

Water Analysis Report

Field:

Location: Jic 70-7

Formation:

Depth: 0

Sum +	mg/L	meq/L
Potassium	0	0
Sodium	7297.9	317.44
Calcium	121.7	6.07
Magnesium	57.3	4.71
Iron	5.8	0.31
Barium	0	0
Strontium	0	0
CATIONS	7482.7	328.53

Analysis  
Balanced

Sum -	mg/L	meq/L
Sulfate	45	0.94
Chloride	11500	324.37
Carbonate	0	0
Bicarbonate	320	5.24
Hydroxide	0	0
-	0	0
-	0	0
ANIONS	11865	330.55

## System Parameters

Total Dissolved Solids @180C

19347.7 mg/L

Sample Temperature, 'F

70 F

Sample pH, standard units

7.24 Units

Dissolved Oxygen

0 ppm

Carbon Dioxide

0 mg/L

Total Sulfide, (TS)

0 mg/L

Sulfide Ion, (S)

0 mg/L

Dissolved Hydrogen Sulfide, (TS-S)

0 mg/L

Specific Gravity

1.0142

Resistivity, measured

0 ohm/m<sup>3</sup>

Ionic strength

0.335

Sulfate Reducing Bacteria

nd

Aerobic Bacteria

nd

## Scaling Tendency

## CACO3

Temp F	Stiff Davis Index	A index
32	-1	-297.6819
50	-0.85	-228.3189
68	-0.68	-161.1406
77	-0.58	-129.2269
86	-0.47	-99.01107
104	-0.25	-44.62304
122	0	0.650257
140	0.28	36.73419
158	0.58	63.786
176	0.91	82.66387

## CASO4

Temp F	Actual	SOLUBILITY	S Index
50	0.936905	52.30774	-51.37083
68	0.936905	52.65138	-51.71447
86	0.936905	52.99289	-52.05598
104	0.936905	53.23035	-52.29344
122	0.936905	53.36508	-52.42818
140	0.936905	52.44516	-51.50826
158	0.936905	51.5096	-50.57269
176	0.936905	50.55756	-49.62065

BASO4 SCALE POSSIBLE

NO

Water Analysis P<sub>i</sub>

NOTE: Stiff Davis Index

- indicates undersaturation. Scale formation negative.

0 indicates the water is at saturation point. Scale unlikely.

40 30 20 10 10 :



**Champion**  
Technologies, Inc.  
*Committed To Improvement*

**Water Analysis Report**

Customer: M&M Production & Operating

2/7/96

Address:

City:

State:

Zip:

Attention: Roger McGown

Date Sampled:

1/29/96

CC1:

Date Received:

2/6/96

CC2:

SALESMAN NAME: Rick Steph

LEASE: Anderson

SAMPLE POINT: Anderson #1

WELL: Anderson #1 *CALL UP*

**REMARKS:**

CHLORIDE: 16000  
SULFATE: 2293  
BICARBONATE: 524  
CALCIUM: 124  
MAGNESIUM: 70  
IRON: 9  
BARIUM:  
STRONTIUM:  
MEASURED pH: 6.6  
TEMPERATURE: 56  
DISSOLVED CO<sub>2</sub>: 8  
MOLE PERCENT CO<sub>2</sub> IN GAS:  
DISSOLVED H<sub>2</sub>S: 2.0  
PRESSURE (PSIA): 100

SODIUM (PPM): 11397

IONIC STRENGTH: 0.51

*TDS = 30417 ppm*

CALCITE (CaCO<sub>3</sub>) SI: -0.51

CALCITE PTB: N/A

GYPSUM (CaSO<sub>4</sub>) SI: -1.31

GYPSUM PTB: N/A

BARITE (BaSO<sub>4</sub>) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO<sub>4</sub>) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo



**Champion**  
Technologies, Inc.

Committed To Improvement

## Water Analysis Report

Customer: M&M Production & Operating

2/7/96

Address:

City:

State:

Zip:

Attention: Roger McGown

Date Sampled:

1/29/96

CC1:

Date Received:

2/6/96

CC2:

SALESMAN NAME: Rick Steph

LEASE: Anderson

SAMPLE POINT: Anderson #2

WELL: Anderson #2 *CAUCP*

REMARKS:

CHLORIDE: 18000

SULFATE: 134

BICARBONATE: 341

CALCIUM: 212

MAGNESIUM: 58

IRON: 8

BARIUM:

STRONTIUM:

MEASURED pH: 6.6

TEMPERATURE: 56

DISSOLVED CO2: 8

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 2.0

PRESSURE (PSIA): 100

SODIUM (PPM): 11513

IONIC STRENGTH: 0.52

CALCITE (CaCO3) SI: -0.66

CALCITE PTB: N/A

GYPSUM (CaSO4) SI: -2.28

GYPSUM PTB: N/A

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo

*TDS = 30,266 ppm*



**Champion**  
Technologies, Inc.

Committed To Improvement

## Water Analysis Report

Customer: Parko Inc.

2/21/96

Address:

City:

State:

Zip:

Attention: Roger McGown

Date Sampled: 2/9/96

CC1:

Date Received: 2/15/96

CC2:

SALESMAN NAME: Rick Steph

LEASE: Lulu *Gallup*

SAMPLE POINT: Lulu #4 Sep.

WELL: Lulu #4 Sep.

REMARKS:

CHLORIDE: 23000

SULFATE: 0

BICARBONATE: 195

CALCIUM: 481

MAGNESIUM: 121

IRON: 1

BARIUM:

STRONTIUM:

MEASURED pH: 6.4

TEMPERATURE: 86

DISSOLVED CO2: 1

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 2.0

PRESSURE (PSIA): 100

SODIUM (PPM): 14209

IONIC STRENGTH: 0.65

CALCITE (CaCO3) SI: 0.30

CALCITE PTB: 29.7

GYPSUM (CaSO4) SI: N/A

GYPSUM PTB: N/A

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo

*TPS = 30,007 PPM*



**Champion**  
Technologies, Inc.

Committed To Improvement

## Water Analysis Report

Customer: Parko Inc.

2/21/96

Address:

City:

State:

Zip:

Attention: Roger McGown

Date Sampled: 2/9/96

CC1:

Date Received: 2/15/96

CC2:

SALESMAN NAME: Rick Steph

LEASE: Lulu GALLUP

SAMPLE POINT: Lulu #3 Sep.

WELL: Lulu #3 Sep.

REMARKS:

CHLORIDE: 21000

SULFATE: 1

BICARBONATE: 134

CALCIUM: 360

MAGNESIUM: 145

IRON: 1

BARIUM:

STRONTIUM:

MEASURED pH: 6.4

TEMPERATURE: 86

DISSOLVED CO2: 1

MOLE PERCENT CO2 IN GAS:

DISSOLVED H2S: 3.0

PRESSURE (PSIA): 100

SODIUM (PPM): 12983

IONIC STRENGTH: 0.59

CALCITE (CaCO3) SI: -0.10

CALCITE PTB: N/A

GYPSUM (CaSO4) SI: -4.20

GYPSUM PTB: N/A

BARITE (BaSO4) SI: N/A

BARITE PTB: N/A

CELESTITE (SrSO4) SI: N/A

CELESTITE PTB: N/A

SI calculations based on Tomson-Oddo

TPS = 34,624 ppm





**Champion**  
Technologies, Inc.

Committed To Improvement

## Water Analysis Report

Customer: Parko Inc.

2/21/96

Address:

City:

State:

Zip:

Attention: Roger McGown

Date Sampled: 2/9/96

CC1:

Date Received: 2/15/96

CC2:

SALESMAN NAME: Rick Steph

LEASE: Lulu

SAMPLE POINT: Lulu #5 Sep.

WELL: Lulu #5 Sep. *GALLUP*

REMARKS:

CHLORIDE:	28000
SULFATE:	1
BICARBONATE:	183
CALCIUM:	601
MAGNESIUM:	121
IRON:	9
BARIUM:	
STRONTIUM:	
MEASURED pH:	6.35
TEMPERATURE:	86
DISSOLVED CO2:	1
MOLE PERCENT CO2 IN GAS:	
DISSOLVED H2S:	2.0
PRESSURE (PSIA):	100

SODIUM (PPM): 17310

IONIC STRENGTH: 0.79

CALCITE (CaCO3) SI:	0.25	CALCITE PTB:	24.6
GYPSUM (CaSO4) SI:	-4.06	GYPSUM PTB:	N/A
BARITE (BaSO4) SI:	N/A	BARITE PTB:	N/A
CELESTITE (SrSO4) SI:	N/A	CELESTITE PTB:	N/A

SI calculations based on Tomson-Oddo

*TDS = 46,225 ppm*

**Saturation Index Calculations**  
*Champion Technologies, Inc.*  
 (Based on the Tomson-Oddo Model)

**Site Information**

Company	Elmridge
Field	Jicarilla
Point	A #9 DK
Date	8/20/96

**Water Analysis (mg/L)**

Calcium	78
Magnesium	29
Barium	0
Strontium	0
Sodium*	6681
Bicarbonate Alkalinity	903
Sulfate	0
Chloride	10,000

\* - Calculated Value

**Appended Data**

CO2	35 mg/L
H2S	111 mg/L
Iron	0 mg/L

TDS = 17,691 ppm

**Physical Properties**

Ionic Strength*	0.30
pH†	6.95
Temperature	85°F
Pressure	100 psia

- Calculated Value † - Known/Specified Value

**Calcite Calculation Information**

Calculation Method	Value
pH	6.95
Bicarbonate Alkalinity Correction(s)	Value
None Used	—

**& PTB Results**

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.56	N/A
gypsum (Calcium Sulfate)	N/A	N/A
anhydrite (Calcium Sulfate)	N/A	N/A
barite (Barium Sulfate)	N/A	N/A
strontianite (Strontium Sulfate)	N/A	N/A

**Saturation Index Calculations**

Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

**Site Information**

Company	Elmridge
Field	Jicarilla
Point	A8 PC
Date	8/20/96

**Water Analysis (mg/L)**

Calcium	401
Magnesium	340
Barium	0
Strontium	0
Sodium*	17345
Bicarbonate Alkalinity	769
Sulfate	0
Chloride	28,000

**Appended Data**

CO2	25 mg/L
H2S	72 mg/L
Iron	0 mg/L

TDS = 46,855 ppm

\* - Calculated Value

**Physical Properties**

Ionic Strength*	0.83
pH†	6.85
Temperature	85°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

**Calcite Calculation Information**

Calculation Method	Value
pH	6.85
Bicarbonate Alkalinity Correction(s)	Value
None Used	

**& PTB Results**

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.47	N/A
gypsum (Calcium Sulfate)	N/A	N/A
anhydrite (Calcium Sulfate)	N/A	N/A
barite (Calcium Sulfate)	N/A	N/A
barite (Barium Sulfate)	N/A	N/A
strontianite (Strontium Sulfate)	N/A	N/A

## Saturation Index Calculations

Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

### Site Information

Company	Conoco
Field	Lindrith
Point	B-25 SWD CALLUP/DAKOTA
Date	11/27/96

### Water Analysis (mg/L)

Calcium	441
Magnesium	170
Barium	0
Strontium	0
Sodium*	7457
Bicarbonate Alkalinity	1,073
Sulfate	4,269
Chloride	9,000

### Appended Data

Dissolved CO2	219 mg/L
Dissolved O2	0 PPB
H2S	58 mg/L
Iron	2.0 mg/L
Resistivity	N/A value
Specific Gravity	1.016 value
TDS	22422 mg/L
Total Hardness	1800 mg/L

\* - Calculated Value

### Physical Properties

Ionic Strength*	0.42
pH†	7.61
Temperature	86°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

TDS = 22422 ppm

### Calcite Calculation Information

Calculation Method	Value
pH	7.61
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

### SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.79	229.0
Gypsum (Calcium Sulfate)	-0.52	N/A
Hemihydrate (Calcium Sulfate)	-0.42	N/A
Anhydrite (Calcium Sulfate)	-0.78	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A

## Saturation Index Calculations

Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

### Site Information

Company	Conoco
Field	Haynes
Point	Commingled <i>GALLUP/DAKOTA</i>
Date	5/29/97

### Water Analysis (mg/L)

Calcium	160
Magnesium	243
Barium	0
Strontium	0
Sodium*	7192
Bicarbonate Alkalinity	586
Sulfate	1,005
Chloride	11,000

\* - Calculated Value

### Appended Data

CO2	30 mg/L
H2S	7 mg/L
Iron	96 mg/L
CO3	1.3 mg/L
TH	1440 mg/L

*TDS = 20,136 ppm*

### Physical Properties

Ionic Strength*	0.37
pH†	7.00
Temperature	75°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

### Calcite Calculation Information

Calculation Method	Value
pH	7.00
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

### SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.58	N/A
Gypsum (Calcium Sulfate)	-1.48	N/A
Hemihydrate (Calcium Sulfate)	-1.36	N/A
Anhydrite (Calcium Sulfate)	-1.82	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A

## Saturation Index Calculations

Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

### Site Information

Company	Conoco
Field	Haynes
Point	E1
Date	5/29/97

### Water Analysis (mg/L)

Calcium	321
Magnesium	340
Barium	12
Strontium	52
Sodium*	9127
Bicarbonate Alkalinity	915
Sulfate	204
Chloride	15,000

### Appended Data

CO2	10 mg/L
CO3	0 mg/L
H2S	3 mg/L
Iron	150 mg/L
THI	2200 mg/L

\* - Calculated Value

TDS = 25,971 ppm

### Physical Properties

Ionic Strength*	0.47
pH†	7.20
Temperature	85°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

### Calcite Calculation Information

Calculation Method	Value
pH	7.20
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

### [ & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.11	32.9
Gypsum (Calcium Sulfate)	-1.92	N/A
Emmonite (Calcium Sulfate)	-1.82	N/A
Barite (Barium Sulfate)	-2.18	N/A
Strontianite (Strontium Sulfate)	-1.41	6.8
Strontianite (Strontium Sulfate)	-0.73	N/A

**Saturation Index Calculations**  
Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

**Site Information**

Company	M&M Prod. & Op
Field	Alamos Canyon
Point	#2 <i>R. CHACRA</i>
Date	10/18/96

*FIELD*

**Water Analysis (mg/L)**

Calcium	52
Magnesium	31
Barium	0
Strontium	0
Sodium*	3197
Bicarbonate Alkalinity	1,561
Sulfate	7
Chloride	4,200

**Appended Data**

H <sub>2</sub> S	9 mg/L
Iron	0 mg/L
TDS	9052 mg/L
Total Hardness	260 mg/L
Dissolved CO <sub>2</sub>	109 mg/L
Specific Gravity	1.006 value
Carbonate	0 mg/L

\* - Calculated Value

*TDS = 9041*

**Physical Properties**

Ionic Strength*	0.15
pH†	7.00
Temperature	86°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

**Calcite Calculation Information**

Calculation Method	Value
pH	7.00
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

**SI & PTB Results**

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.18	N/A
Gypsum (Calcium Sulfate)	-3.86	N/A
Hemihydrate (Calcium Sulfate)	-3.68	N/A
Anhydrite (Calcium Sulfate)	-4.14	N/A
Barite (Barium Sulfate)	N/A	N/A
Strontianite (Strontium Sulfate)	N/A	N/A

**Saturation Index Calculations**  
Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

**Site Information**

Company	M&M Prod.&Op
Field	Natani
Point	#33 <i>Rusty CHACKA</i>
Date	10/18/96

**Water Analysis (mg/L)**

Calcium	84
Magnesium	26
Barium	0
Strontium	0
Sodium*	3475
Bicarbonate Alkalinity	305
Sulfate	7
Chloride	5,400

\* - Calculated Value

**Appended Data**

H <sub>2</sub> S	3 mg/L
Iron	6 mg/L
TDS	9299 mg/L
Total Hardness	320 mg/L
Dissolved CO <sub>2</sub>	52 mg/L
Specific Gravity	1.006 value
Carbonate	0 mg/L

*TDS = 9297 ppm*

**Physical Properties**

Ionic Strength*	0.16
pH†	6.00
Temperature	86°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

**Calcite Calculation Information**

Calculation Method	Value
pH	6.00
<hr/>	
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

**& PTB Results**

Scale Type	SI	PTB
alcite (Calcium Carbonate)	-1.70	N/A
ypsum (Calcium Sulfate)	-3.67	N/A
anhydrite (Calcium Sulfate)	-3.50	N/A
hydrite (Calcium Sulfate)	-3.95	N/A
ite (Barium Sulfate)	N/A	N/A
estite (Strontium Sulfate)	N/A	N/A



**Saturation Index Calculations**  
Champion Technologies, Inc.  
(Based on the Tomson-Oddo Model)

**Site Information**

Company	M&M Prod.&Op
Field	Alamos Canyon
Point	#11 R. C. TACKA
Date	10/18/96

**Water Analysis (mg/L)**

Calcium	44
Magnesium	29
Barium	0
Strontium	0
Sodium*	3535
Bicarbonate Alkalinity	1,000
Sulfate	314
Chloride	4,800

\* - Calculated Value

**Appended Data**

H <sub>2</sub> S	9 mg/L
Iron	0 mg/L
TDS	9726 mg/L
Total Hardness	230 mg/L
Dissolved CO <sub>2</sub>	74 mg/L
Specific Gravity	1.006 value
Carbonate	0 mg/L

TDS = 9722 ppm

**Physical Properties**

Ionic Strength*	0.16
pH†	7.00
Temperature	86°F
Pressure	100 psia

\* - Calculated Value † - Known/Specified Value

**Calcite Calculation Information**

Calculation Method	Value
pH	7.00
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

**SI & PTB Results**

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.47	N/A
Gypsum (Calcium Sulfate)	-2.32	N/A
Hemihydrate (Calcium Sulfate)	-2.14	N/A
Anhydrite (Calcium Sulfate)	-2.60	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A

## VIII. GEOLOGIC DATA

## Attachment VIII

### Golden Oil Holding Corporation Jicarilla 70-7 Well Section 27, T24N, R4W

#### Geologic & Lithologic Data on Injection Zone:

The proposed injection zone for the Jicarilla #70-7 well is in the Mesa Verde formation. The Mesa Verde formation is 750' thick and is found from 4550' – 5300' in the Jicarilla #70-7 wellbore. The proposed perforated interval is from 4760' – 5256'. Fracture gradients are usually in the 0.3 – 0.4 psi/ft. range.

The Point Lookout member of the Mesa Verde formation is a regressive marine Sandstone with several northwest trending shoreline-type benches. The Point Lookout is overlain by Paludal Menefee Formation coal, shale, and sandstone. The Point Lookout lies just above the Mancos formation which is comprised almost entirely of shale.

#### Formation Tops in the Jicarilla #70-7:

Nacimiento-	Surface	
Ojo Alamo-	2438'	
Pictured Cliffs	-	2937'
Chacra	-	3300'
Cliff House-	4005'	
Point Lookout	-	4730'
Mancos-	5250'	
Gallup	-	6160'
Greenhorn-	7090'	
Dakota	-	7170'

Point Lookout sand w/ porosity's ranging from 8%-18%.

Other than the aquifers that are contained in the surface alluvium there are no known Drinking water aquifers in the area of review.

## IX. STIMULATION PROGRAM

Attachment IX

Golden Oil Holding Corporation  
Jicarilla 70-7 Well  
Section 27, T24N, R4W

There is no stimulation program planned for this well.



## X. LOGGING AND TEST DATA

# COMPENSATED NEUTRON FORMATION DENSITY

Officer Services:  
I - SFL

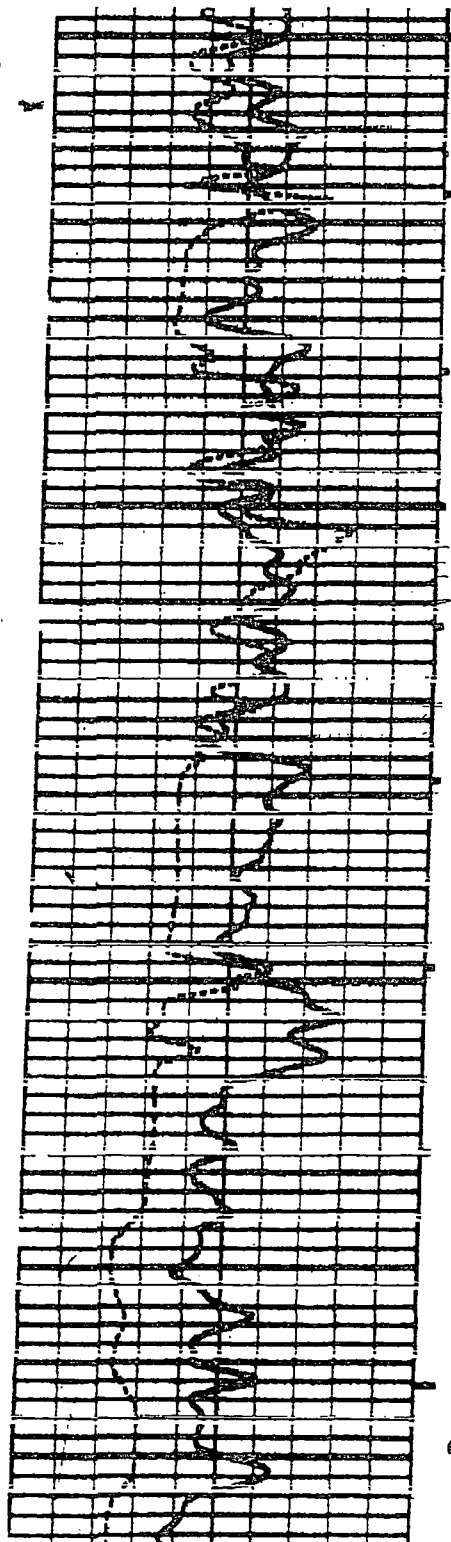
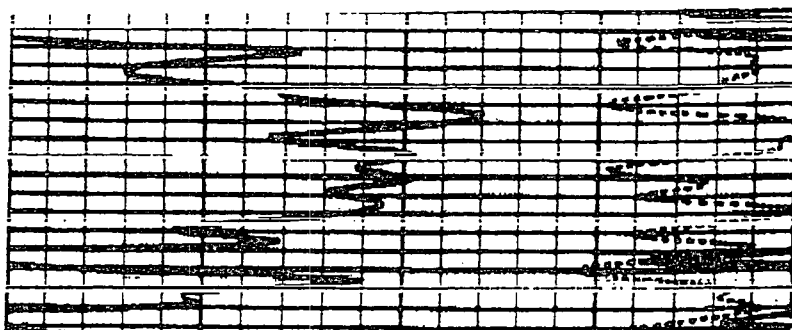
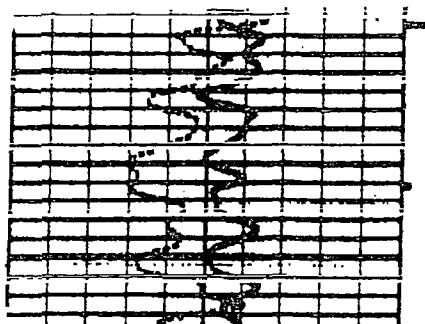
Elm.:	K.B.	7070
D.F.		7069
Gl.		7055

**POLO HERE**

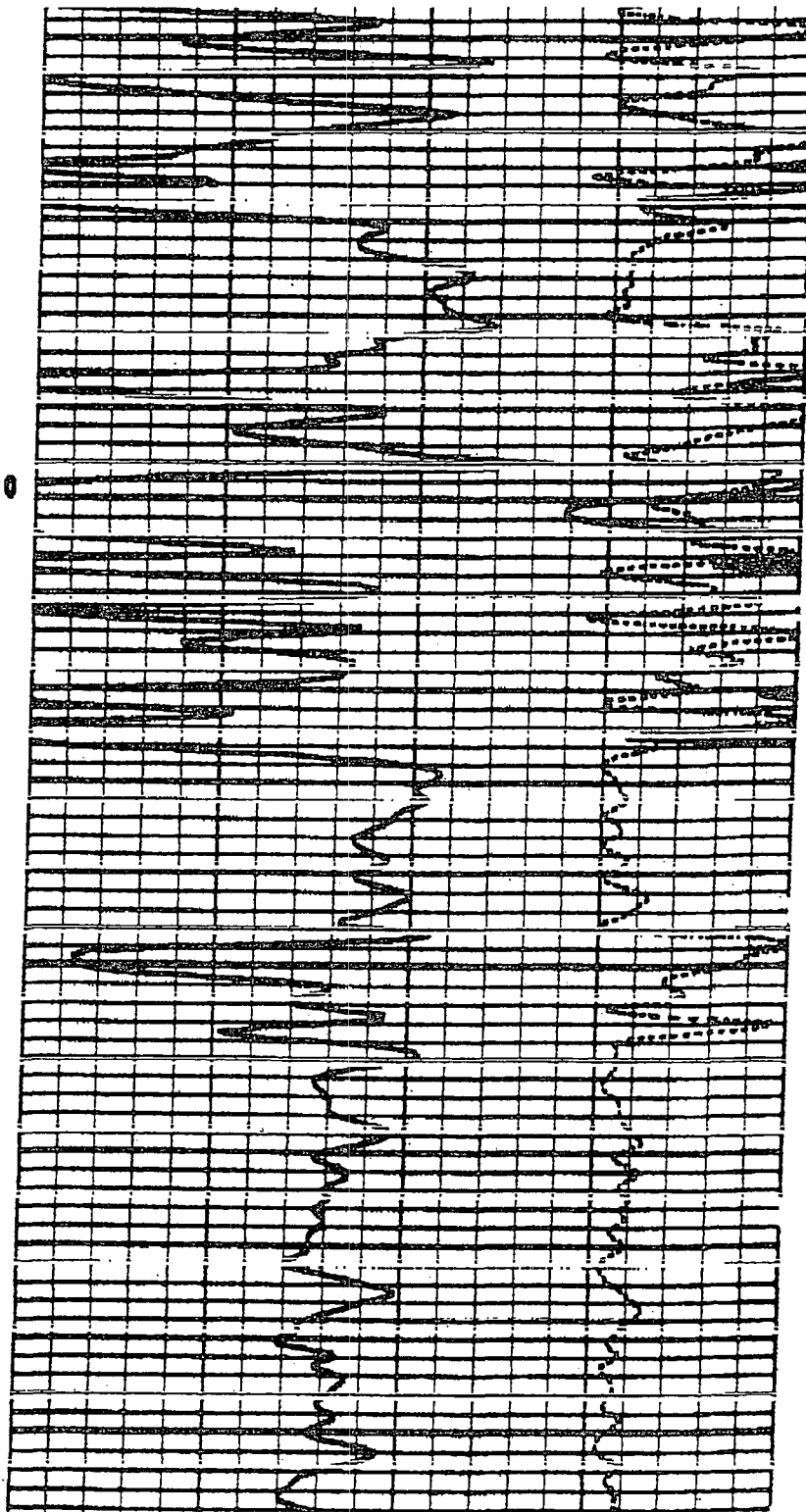
The well name, location and borehole reference data were furnished by the customer.

RUN NO.	ONE								
Service Order No.	119950					Type Log	Depth		
Fluid Level	FULL								
Salinity, PPM CL									
Speed - F.P.M.	30								
EQUIPMENT DATA									
Dens. Panel	553								
Dens. Cart.									
Dens. Skid.	430								
Dens. Sonde	406					REMARKS:			
Dens. Source	6107								
Dens. Calibrator	364								
Neut. Panel	553								
Neut. Cart.	1199								
Neut. Source	1201								
Neut. Calibrator	1184								
GB Cart.	2073								
Memorizer Panel	583								
Tuna Recorder (TDR)	033								

Depth Encoder (DRE)	I DW				
Pressure Wheel (CPW)					
Centralizers:	Type				
Enter Spring,	No.				
Shandells,					
Inches or More	S O — inches				

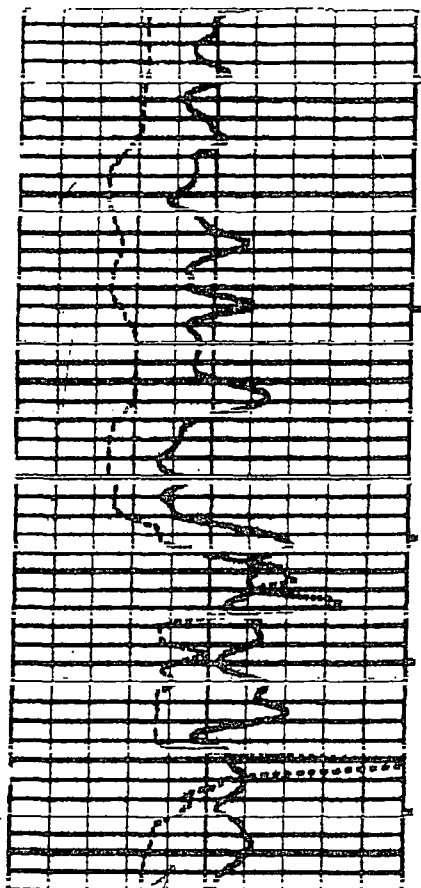


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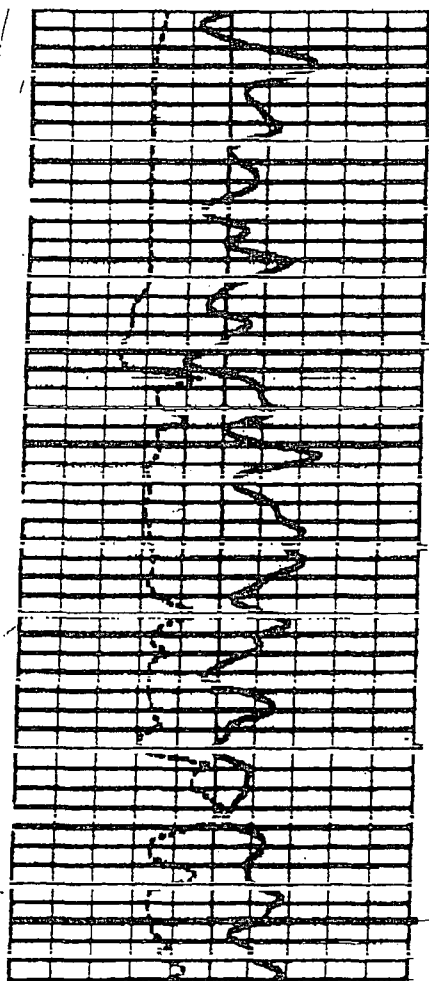
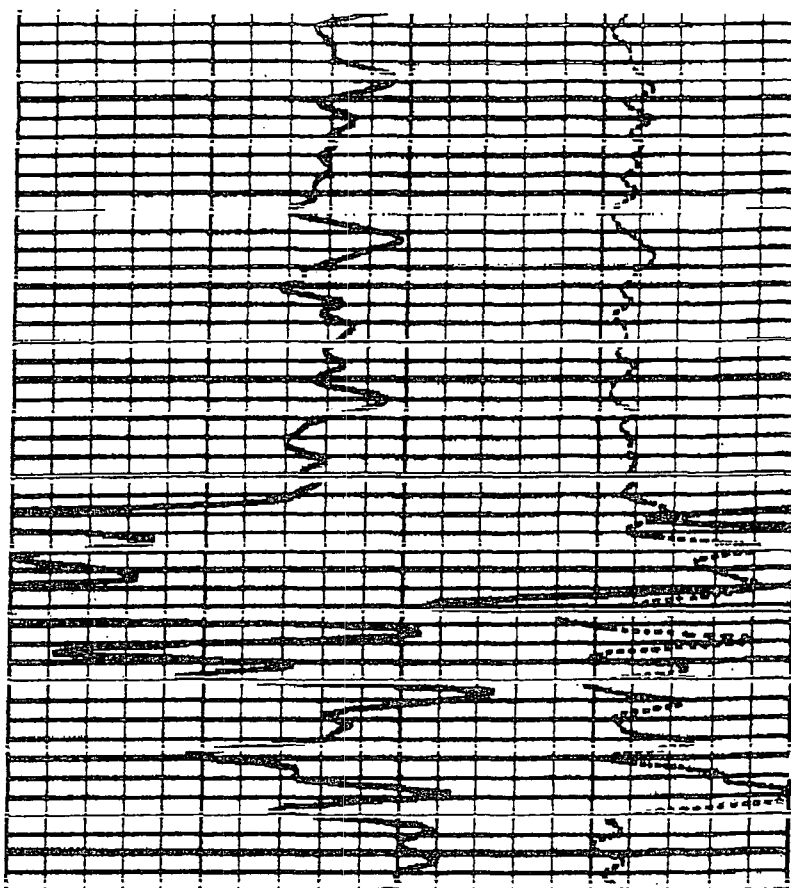


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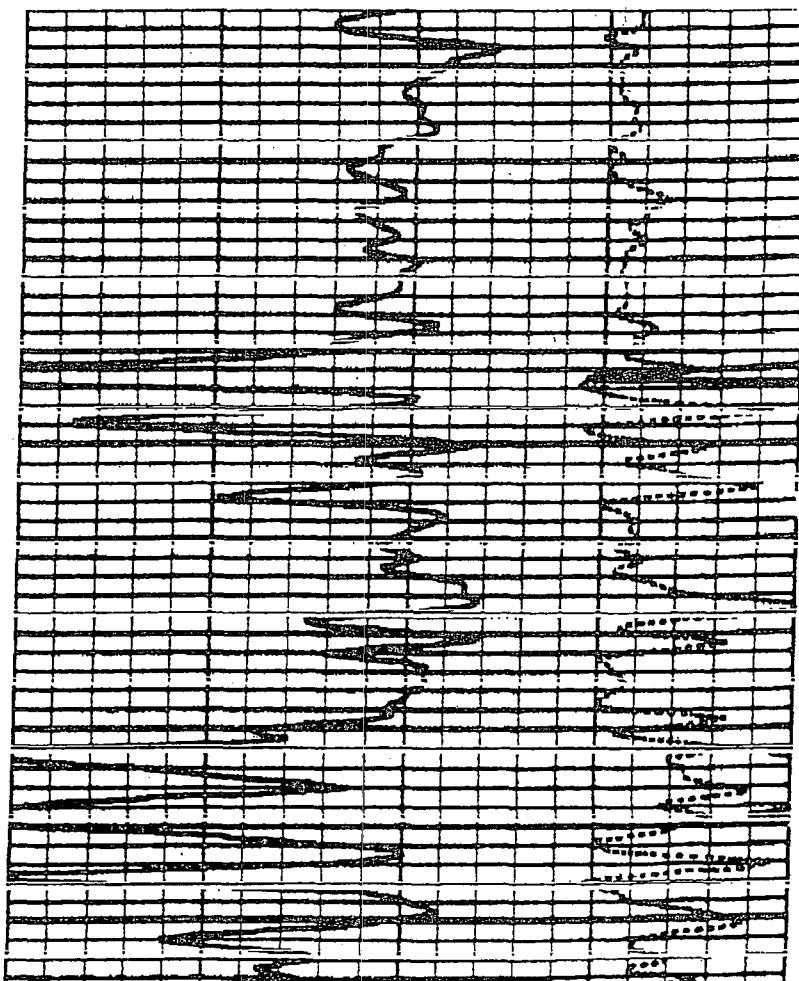


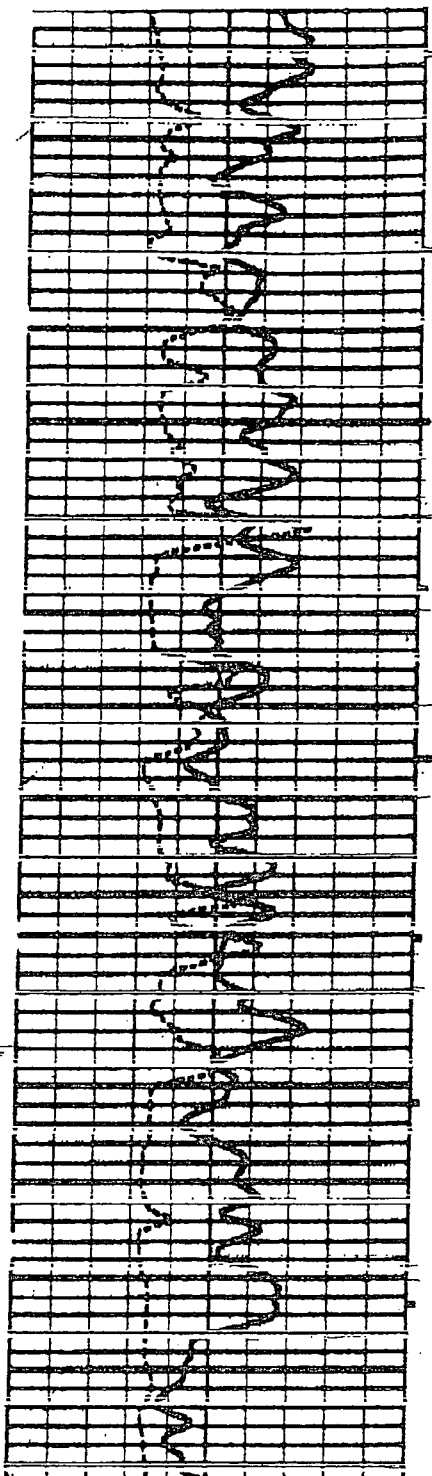


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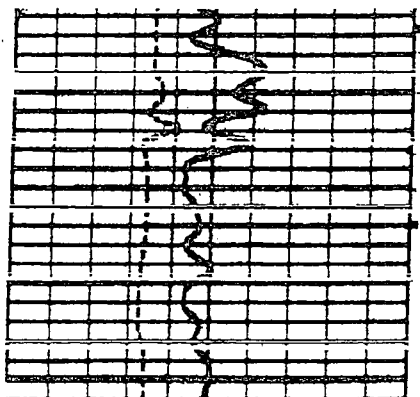
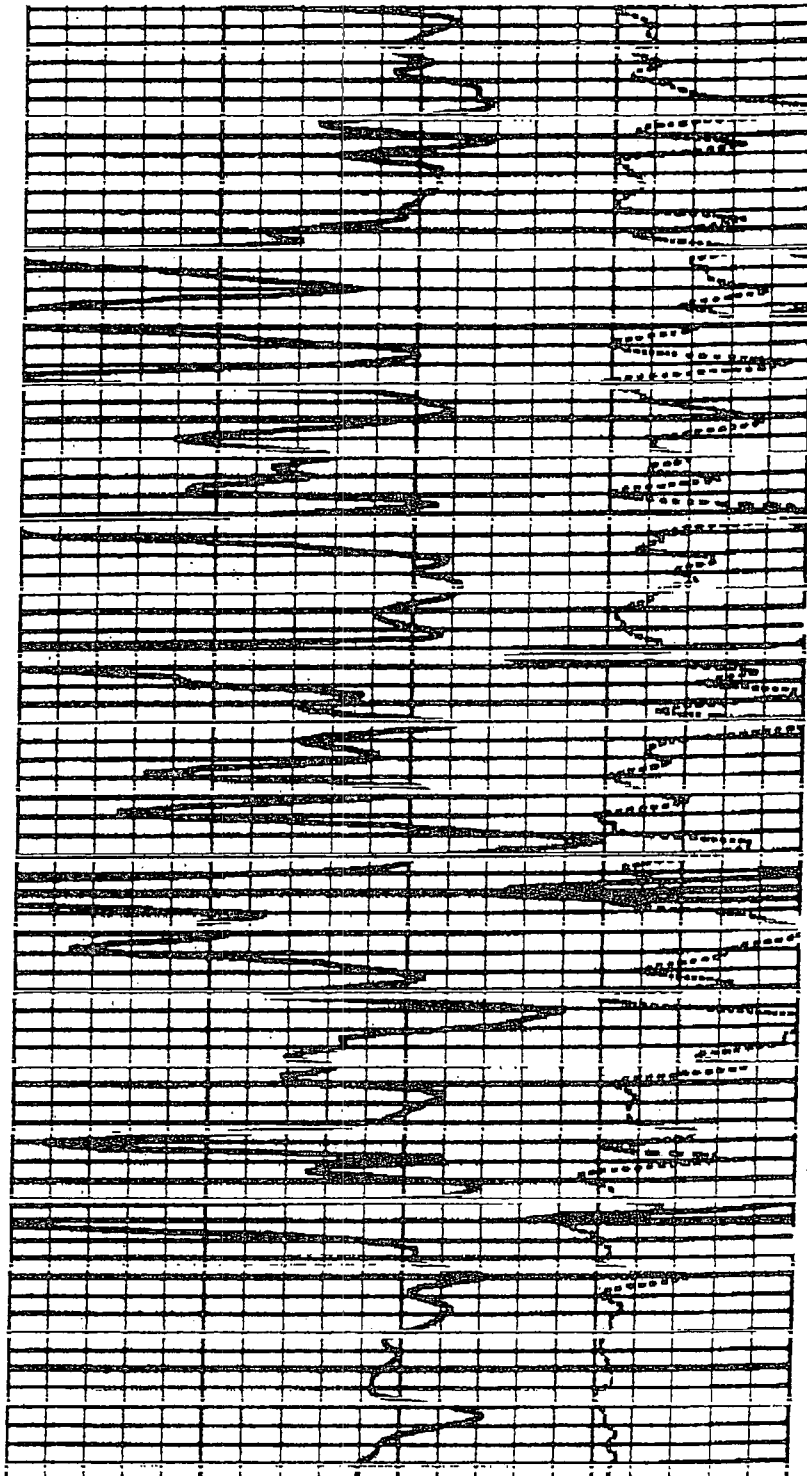


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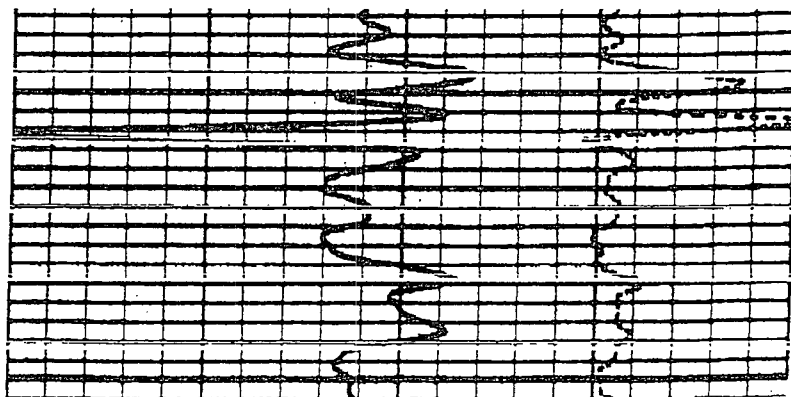


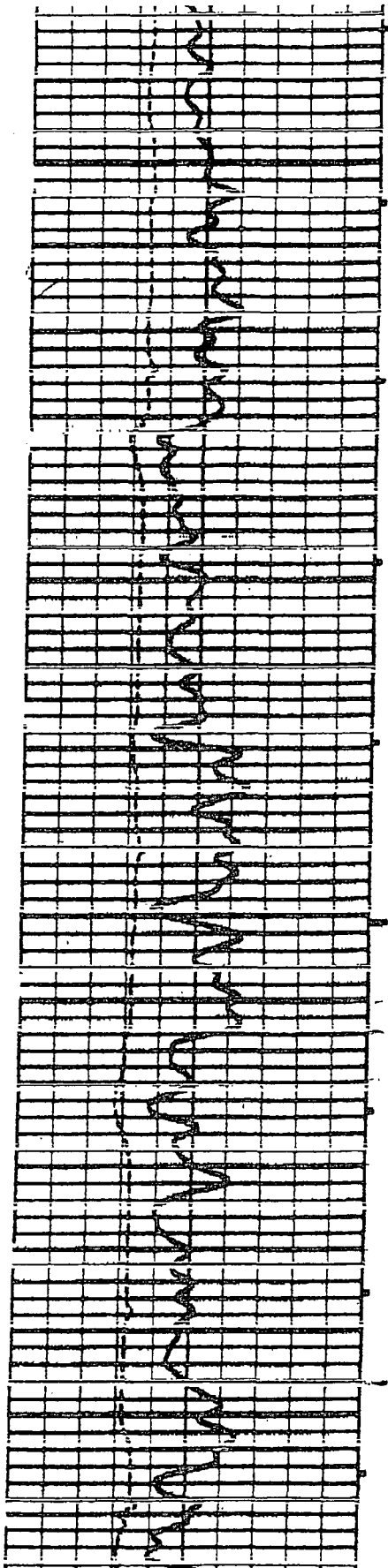


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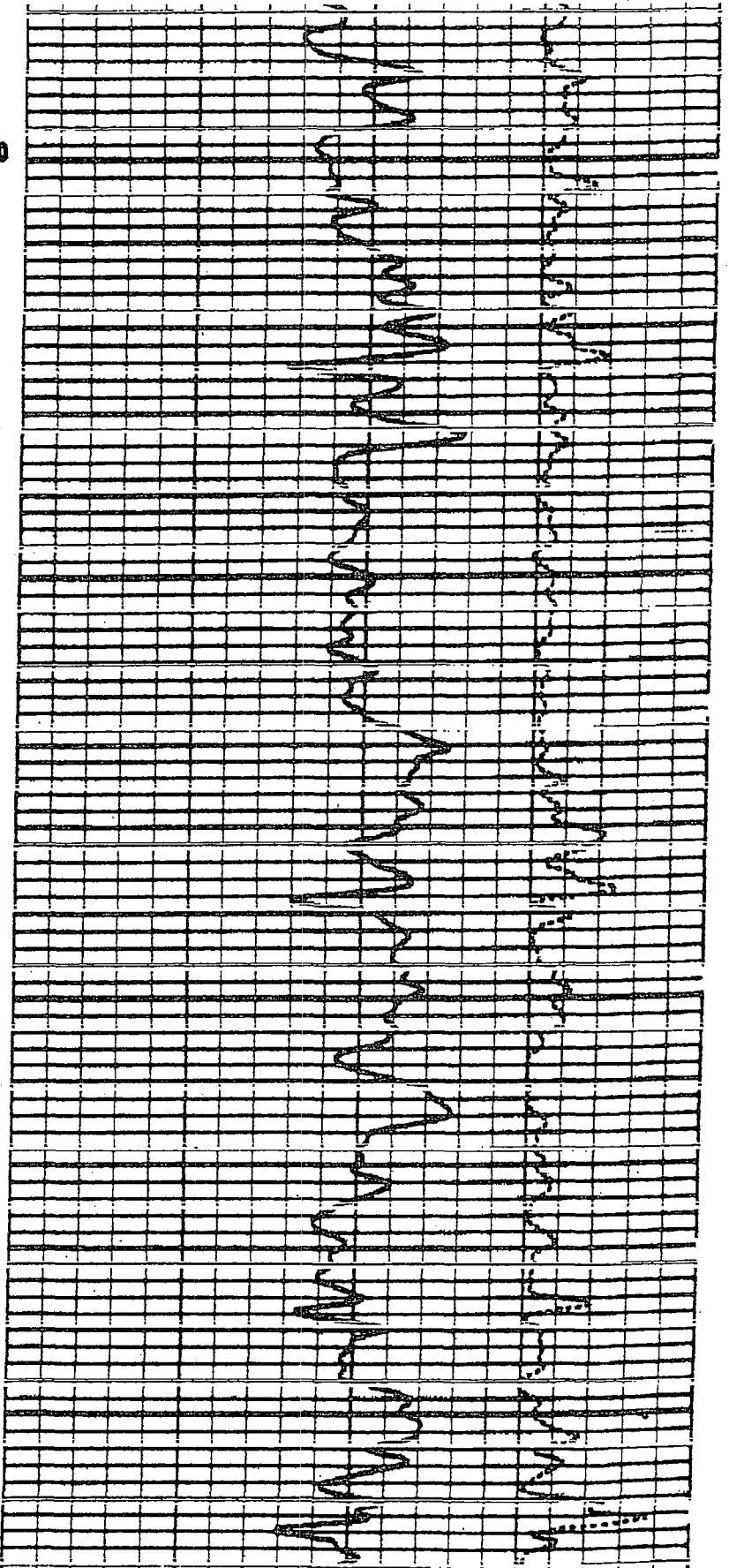


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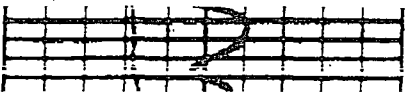


5100



5200

24



Schlumberger

ADDITION SPECIAL  
LICENSEDCOUNTY RIO ARriba, N.M.  
FIELD GALLUP DAKOTALOCATION  
WELL JICARILLA 70-7  
UNIT #1

COMPANY CHACE OIL CO.

COMPANY CHACE OIL COMPANY

WELL JICARILLA 70-7 UNIT #1

FIELD GALLUP DAKOTA

COUNTY RIO ARriba STATE NEW MEXICO

LOCATION  
1850' FSL & 790' FEL, 9  
N3-5E  
30-639-0519-2Other Services:  
CNL/FBC

API SERIAL NO. REC. 27 TWP 24-N RANGE 4-W

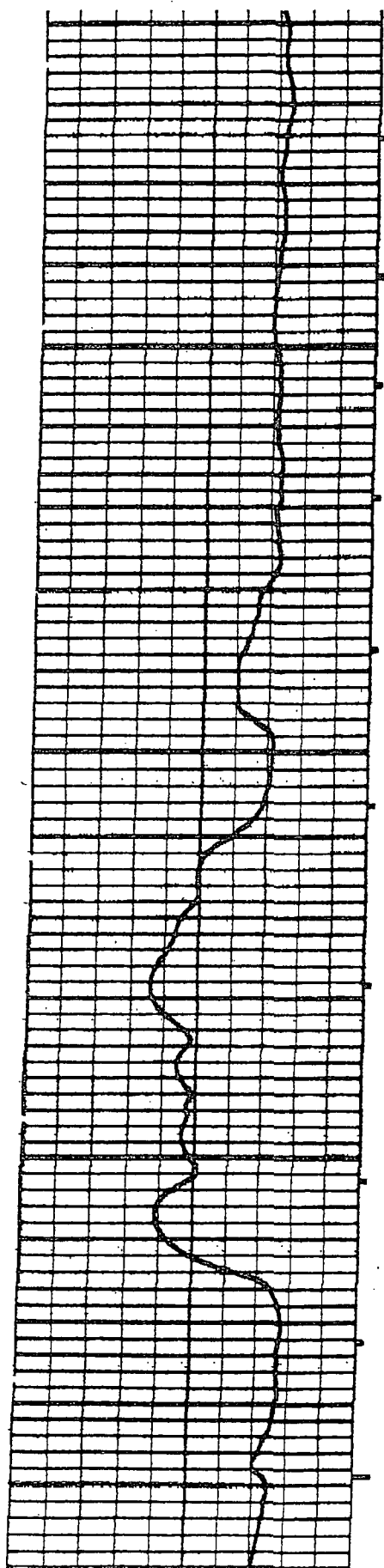
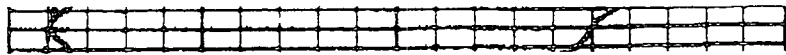
Permanent Datum: G.L., Elev.: 7055  
Log Measured From: K.B., 15 ft. Above Perm. Datum  
Drilling Measured From: K.B.Elev.: K.B. 7070  
D.F. 7069  
G.L. 7055

Date	8-23-80
Run No.	ONE
Depth-Driller	7500
Depth-Logger (Schl)	7502
Bin. Log Interval	7496
Top Log Interval	1198
Casing-Driller	9" @ 250
Casing-Logger	@
Bit Size	7 7/8
Type Fluid in Hole	FRESH MUD
Dens. Visc.	9.1 6.4
pH Fluid Loss	9 6.6 ml
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	1.9 @ 80°F
Rmf @ Meas. Temp.	2.2 @ 80°F
Rmc @ Meas. Temp.	@
Source: Rmf Rmc	M
Rm @ BHT	1.2 @ 158°F
Circulation Stopped	1800 8-22
Logger on Bottom	0100 8-23
Max. Rec. Temp.	158 °F
Equip. Location	8171 FARM
Recorded By	CANADAY
Witnessed By	MCCRAY

FOLD HERE

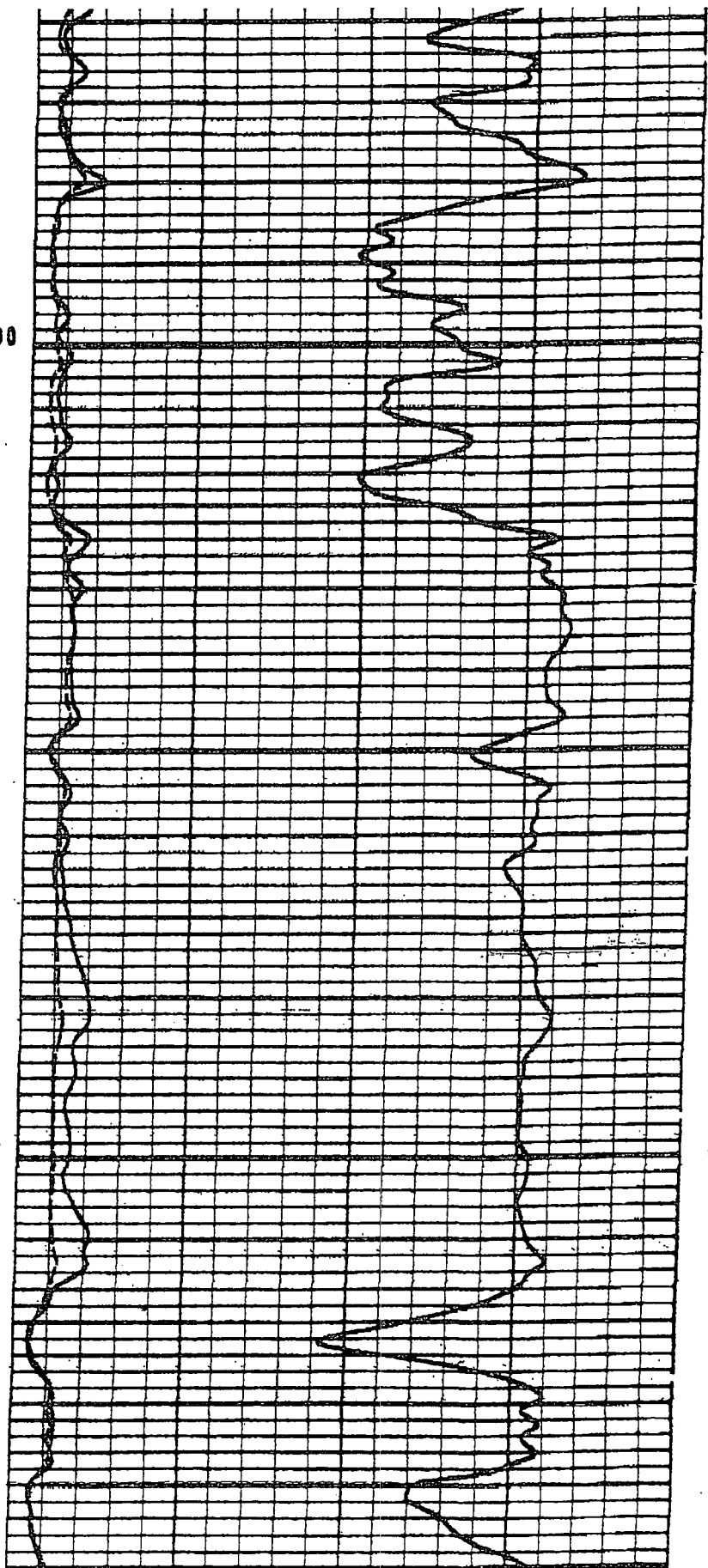
The well name, location and borehole reference data were furnished by the customer.

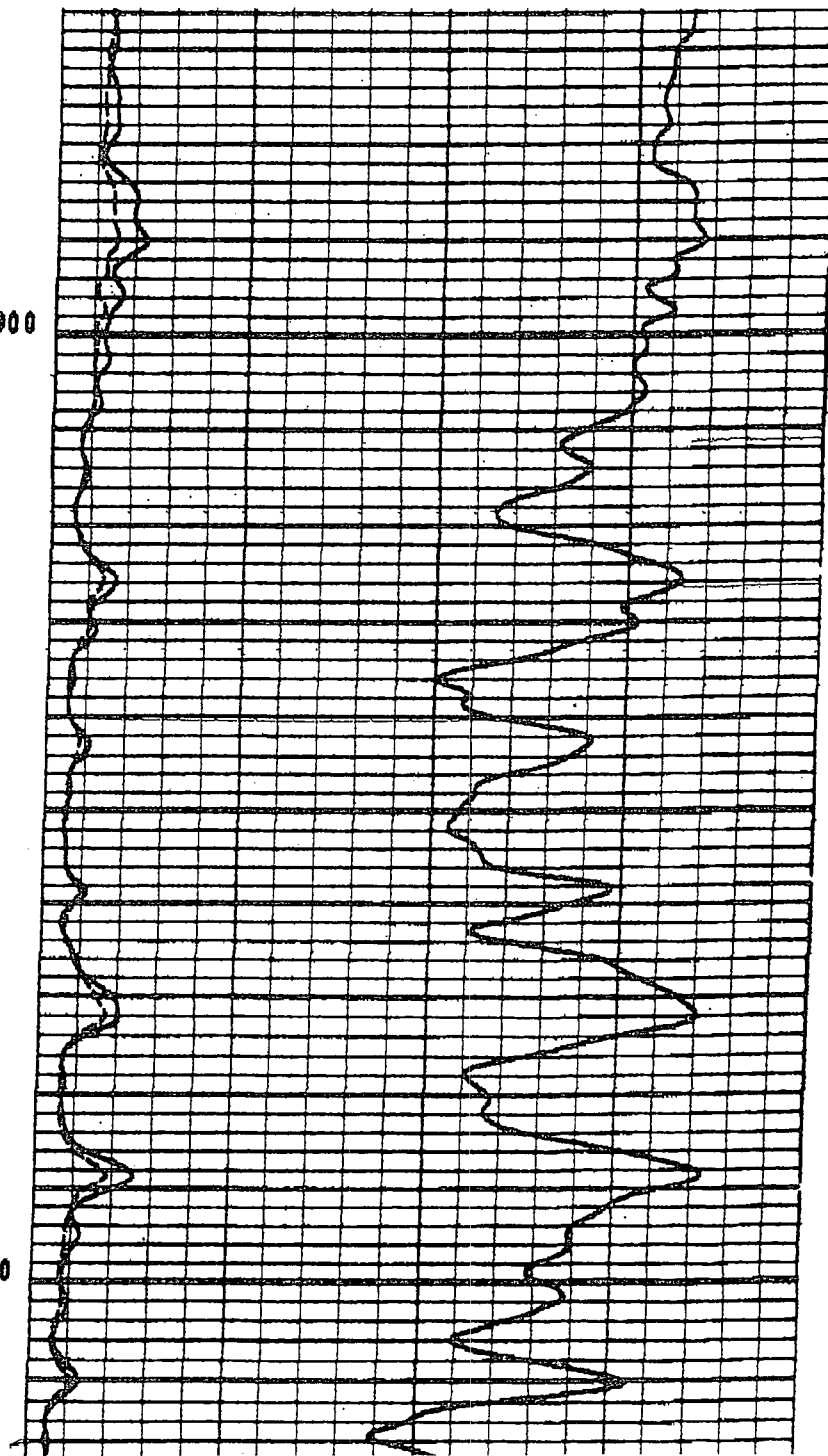
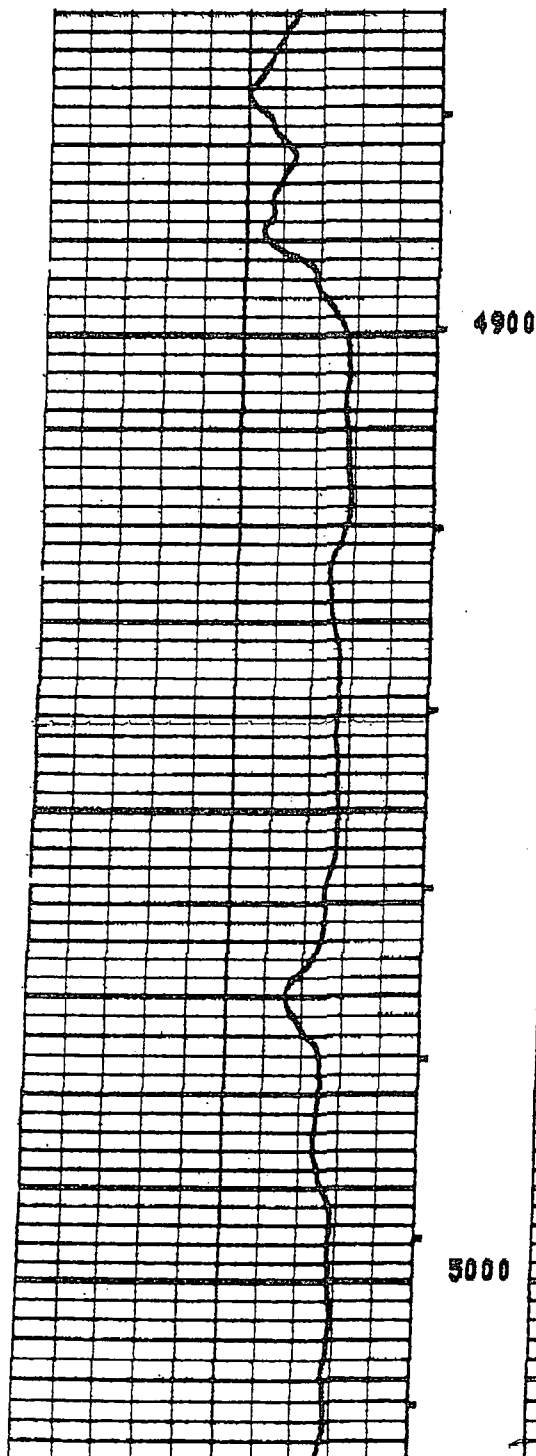
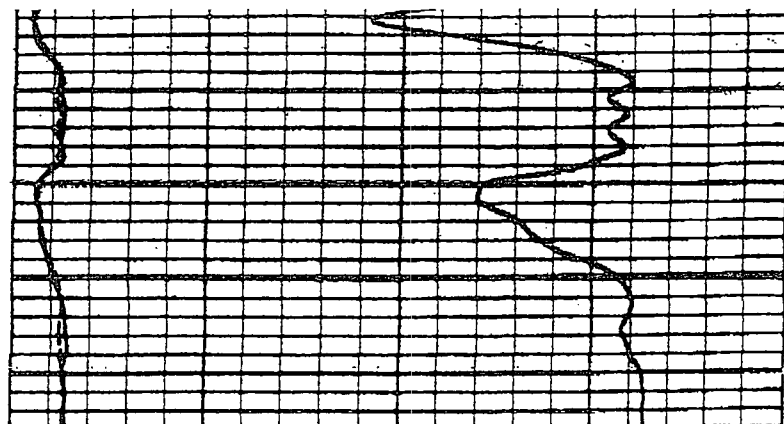
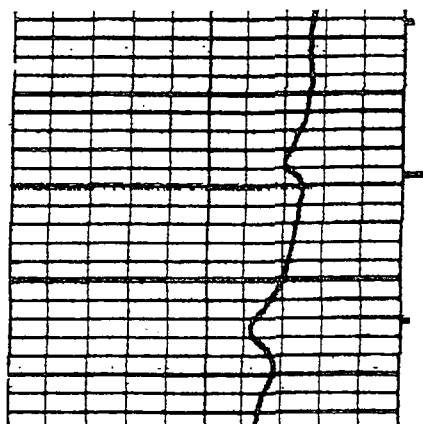
RUN NO.	ONE	SCALE CHANGES
Service Order No.	119950	Type Log Depth Scale Up Hole Scale Down Hole
Fluid Level	FULL	
Salinity, PPM CL.		
EQUIPMENT DATA		REMARKS
Panel	358	
Cartridge	249	
Panel	296	
Amplifier Panel	586	
Anticorrosion	Type	
Inter Spring	No.	
Standoffs	S.O. Inches	
Line, or None		
R. Panel		
R. Cartridge		
Pressure Recorder (TTR)	237	
Depth Encoder (DRE)	TDW	
Pressure Wheel (CPW)		
ALIBRATION DATA		

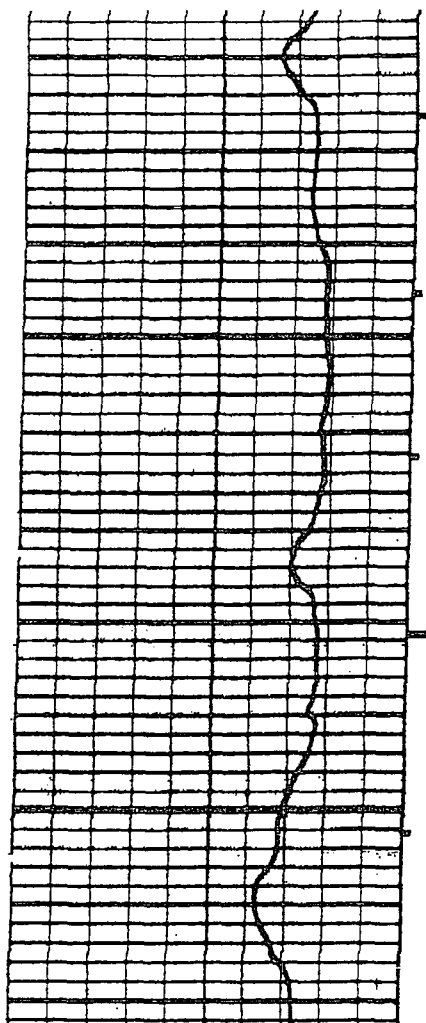


4700

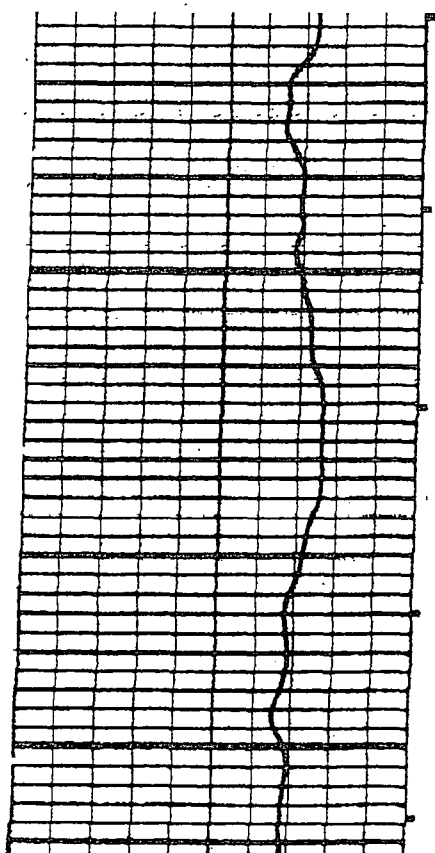
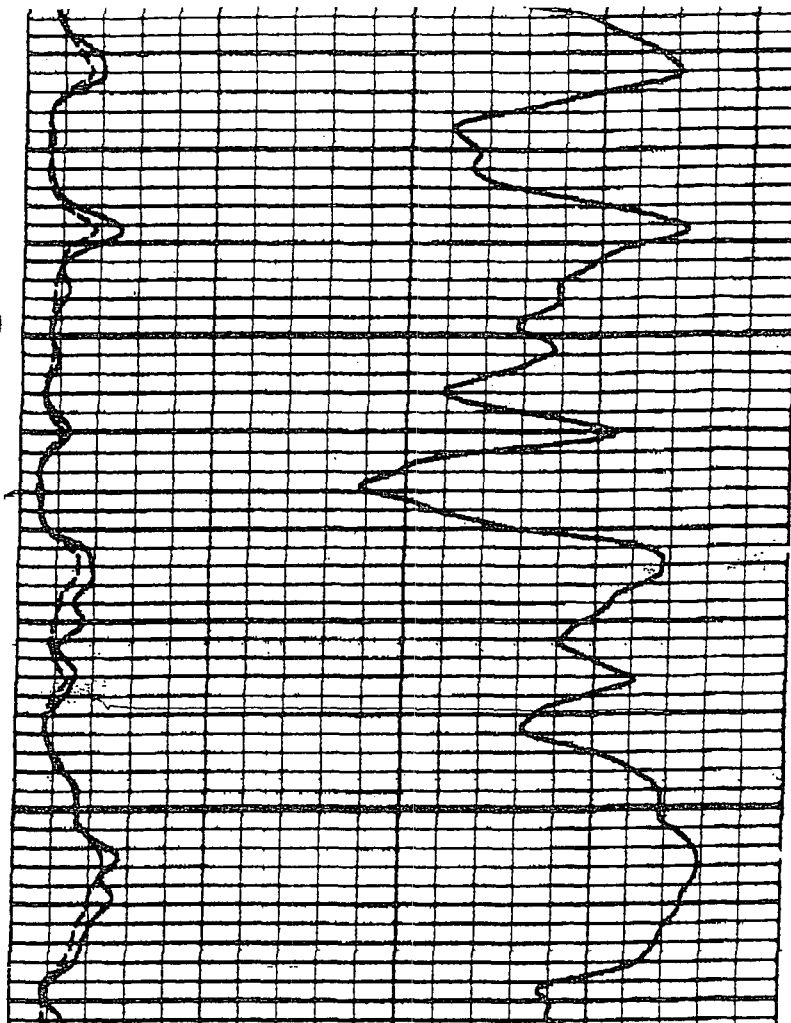
4800



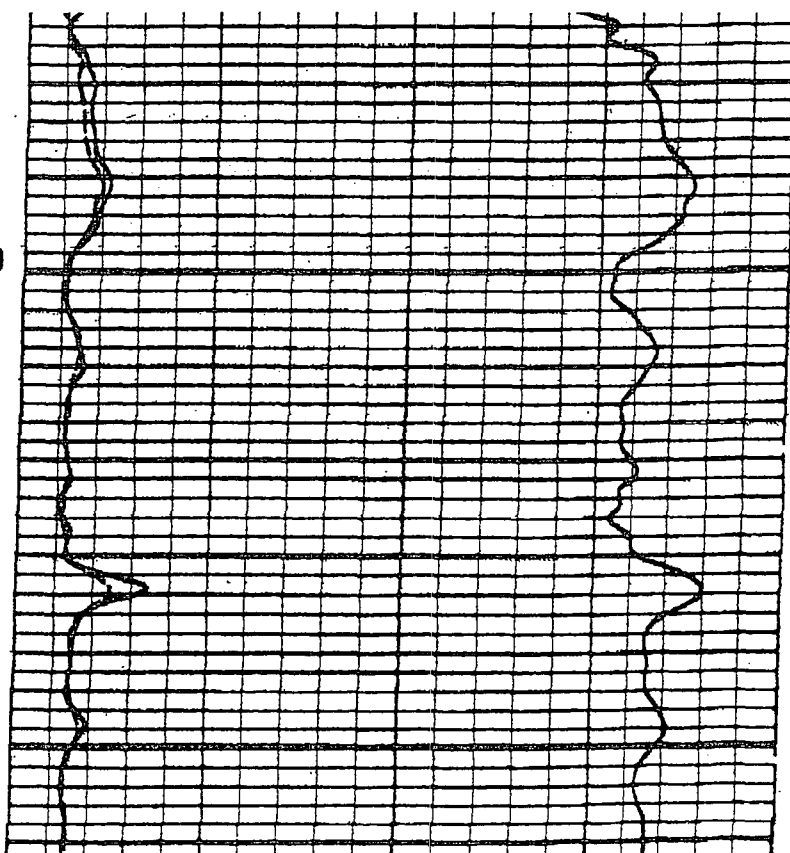


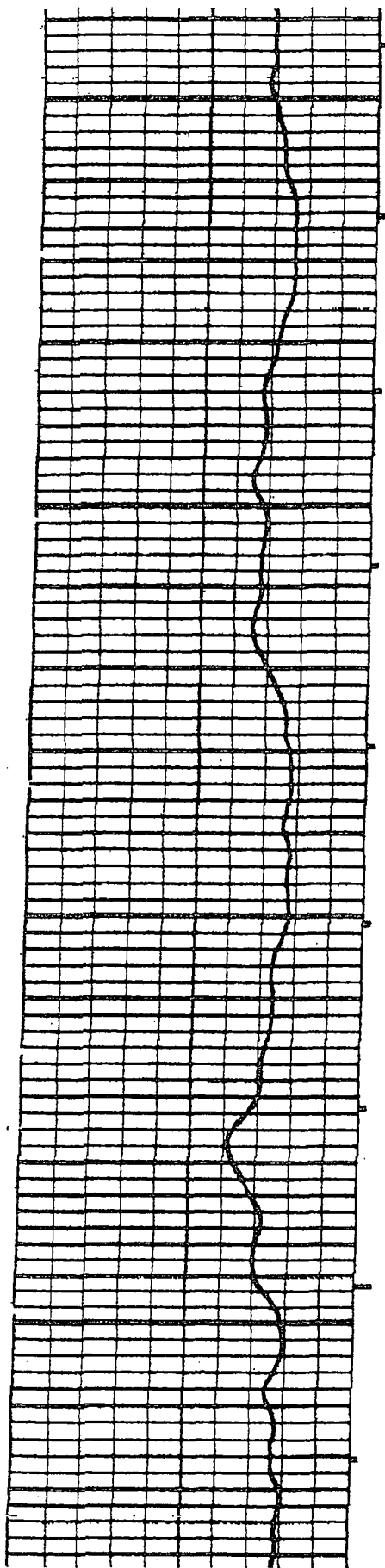


5000

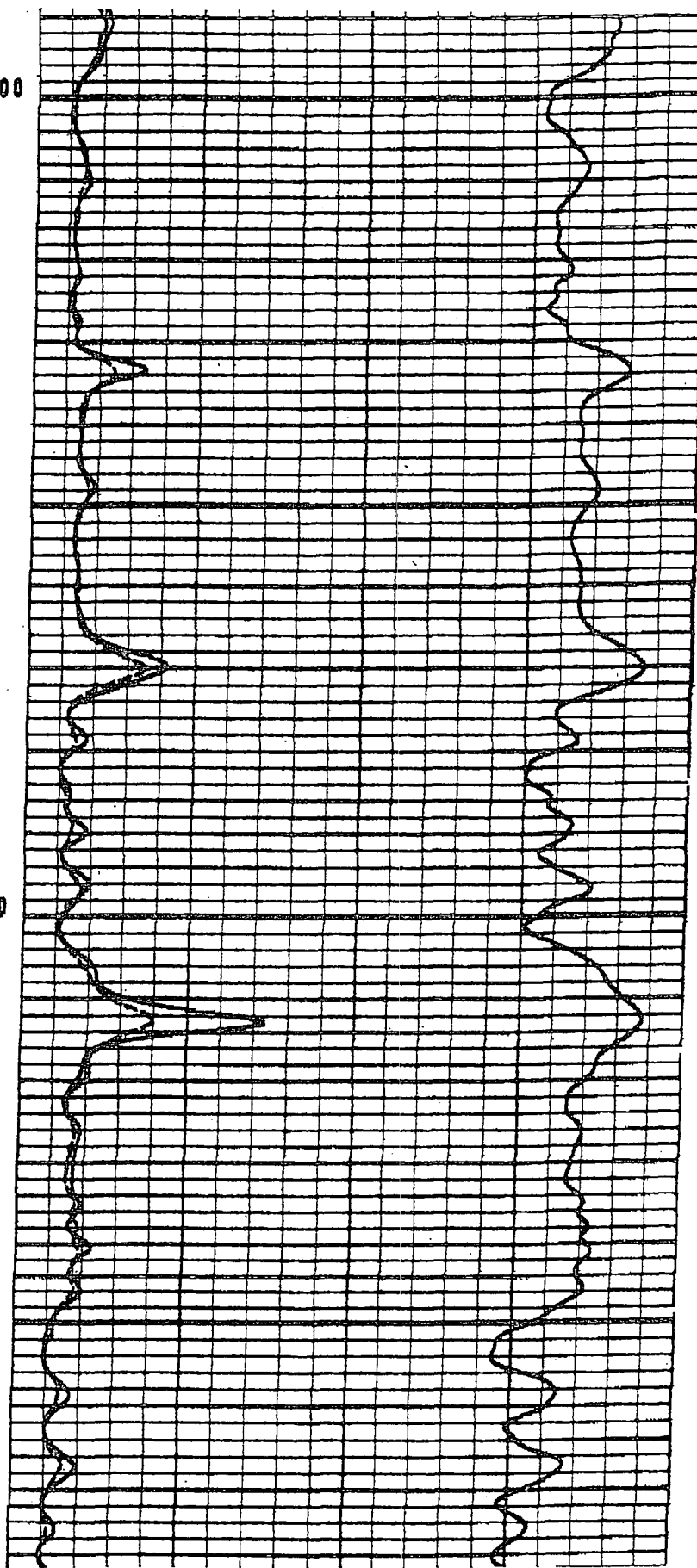


5100





5100



5200





# XI. CHEMICAL ANALYSIS OF FRESH WATER WELLS

Attachment XI

Golden Oil Holding Corporation  
Jicarilla 70-7 Well  
Section 27, T24N, R4W

There are no known producing fresh water wells within one mile of the proposed injection well.

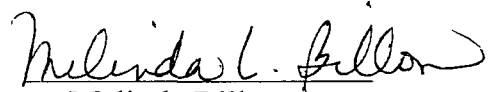


## XII. STATEMENT OF EXAMINATION OF DATA

Attachment XII

Golden Oil Holding Corporation  
Jicarilla 70-7 Well  
Section 27, T24N, R4W

I have reviewed the information provided by our Petroleum Engineering Consultant (Walsh Engineering & Production Corp.) and found no reference to open faults or any connection between the disposal zone and underground sources of drinking water. Other than the aquifers that are contained in the surface alluvium there are no known drinking water aquifers in the area of review.

A handwritten signature in cursive script, reading "Melinda L. Billon". The signature is written in dark ink and is positioned above the printed name.

Melinda Billon

For Golden Oil Holding Corp.



### XIII. PROOF OF NOTICE

RECEIVED

2008 JAN 2 AM 8 18



PRESSURE GAUGE DATA

**Company:**

Golden Oil Holding Corp.

*Danell  
Emmert*

**Well Name:**

Jicarilla #70-7

**Date:**

December 18, 2007

**PHOENIX SERVICES, LLC**

Reservoir Engineering Data

Farmington, New Mexico

**INDIVIDUAL WELL DATA SHEET**

File No.: 12751WP

Company: Golden Oil Holding Corp.

Lease: Jicarilla

Well No.: 70-7

Field:

County/State: Rio Arriba, NM

Formation: Mesaverde

Test Date: 12/18/07

Elevation (ft): 7055

Casing Pressure (psi): 202

Atmosphere Pressure (psi):

Tubing Pressure (psi): 202

Total Depth (ft): 7500

Fluid Level (ft):

Perfs (ft): 4760-5256

Water Level (ft): surface

Tbg Size (in): 2 3/8 to (ft):

Temperature (oF): 136 (ft): 5208

Csg Size (in): 4 1/2 to (ft):

Atmosphere Temperature (oF):

Packer (ft):

Element No.: 9736

Seat Nipple (ft):

Element Range (psi): 0-6000

Maximum Safe Test Depth (ft): 5208

Operator: F Cuevas

Unit No.: 8

Well Status: shut in

	Depth	Temperature	Pressure	Differential	Differential	Gradient
Time	Feet	°F	Psig	Psi	Feet	Psi per Ft
1057	0	136.37	202.30			
1050	1000	136.37	605.70	403.400	1000	0.403400
1043	2000	135.04	1041.60	435.900	1000	0.435900
1036	3000	133.39	1430.50	388.900	1000	0.388900
1029	4000	131.16	1751.70	321.200	1000	0.321200
1024	4708	129.27	1772.40	20.700	708	0.029237
1018	4808	127.77	1866.40	94.000	100	0.940000
1014	4908	116.17	1891.60	25.200	100	0.252000
1009	5008	100.90	1949.10	57.500	100	0.575000
1004	5108	81.27	1997.90	48.800	100	0.488000
1000	5208	66.83	1998.00	0.100	100	0.001000

## **Static Gradient Report**

---

**Oil Company: GOLDEN OIL HOLDING CORP.**  
**Well Name: JICARILLA 70-7**  
**Well Location: T24N, R4W, SEC. 27**  
**Formation: MESAVERDE**  
**On Bottom Time: 12/18/07 @ 0905 HRS**  
**Off Bottom Time: 12/18/07 @ 1005 HRS**

---



**OIL COMPANY INFORMATION**

Oil Company: GOLDEN OIL HOLDING CORP.  
Address: 2200 POST OAK BLVD., HOUSTON, TX 77056

**WELL INFORMATION**

Well Name: JICARILLA 70-7  
Well Location: T24N, R4W, SEC. 27  
Field:  
Pool:  
Formation: MESAVERDE  
Well Licence Number:  
Well Fluid Status: 02 Gas  
Well Mode Status: 00 Not Applicable  
Well Type Status: 09 Industrial  
Well Type Indicator: Vertical  
Production Interval(KB) From: 4760 TO 5256  
KB Elevation: 7067                      CF Elevation:                      Ground Elevation: 7055  
Pool Datum:                      Datum Depth: 7067  
Producing Through:  
O.H. Diameter:  
Casing Liner Diameter:  
PBD: 7451  
Total Depth: 7500  
Tubing Depth:  
Tubing OD.: 2 3/8                      Tubing ID.:  
Casing OD.:                      Casing ID.: 4 1/2

**TEST INFORMATION**

Type Of Test: Static Gradient  
Initial Tubing Pressure:                      Final Tubing Pressure:  
Initial Casing Pressure:                      Final Casing Pressure:  
Shut in Time:

**GAUGE INFORMATION**

Serial Number: 9736  
Pressure Range: 323  
Calibration Date: DEC 20/06  
Gauge Started:                      Gauge Stopped:  
On Bottom Time: 12/18/07 @ 0905 HRS                      Off Bottom Time: 12/18/07 @ 1005 HRS  
Run Depth Bottom (KB):

**REMARKS**

RAN 1.50 IB TO 6032'-SET DOWN-TD-NO IMPRESSION-RAN TANDEM BHP GAUGES (9736, 9737) TO 5208'-SET  
1 HR-  
POOH MAKING GRADIENT STOPS.

## GRADIENT SUMMARY

---

Oil Company: GOLDEN OIL HOLDING CORP.

Well Location: T24N, R4W, SEC. 27

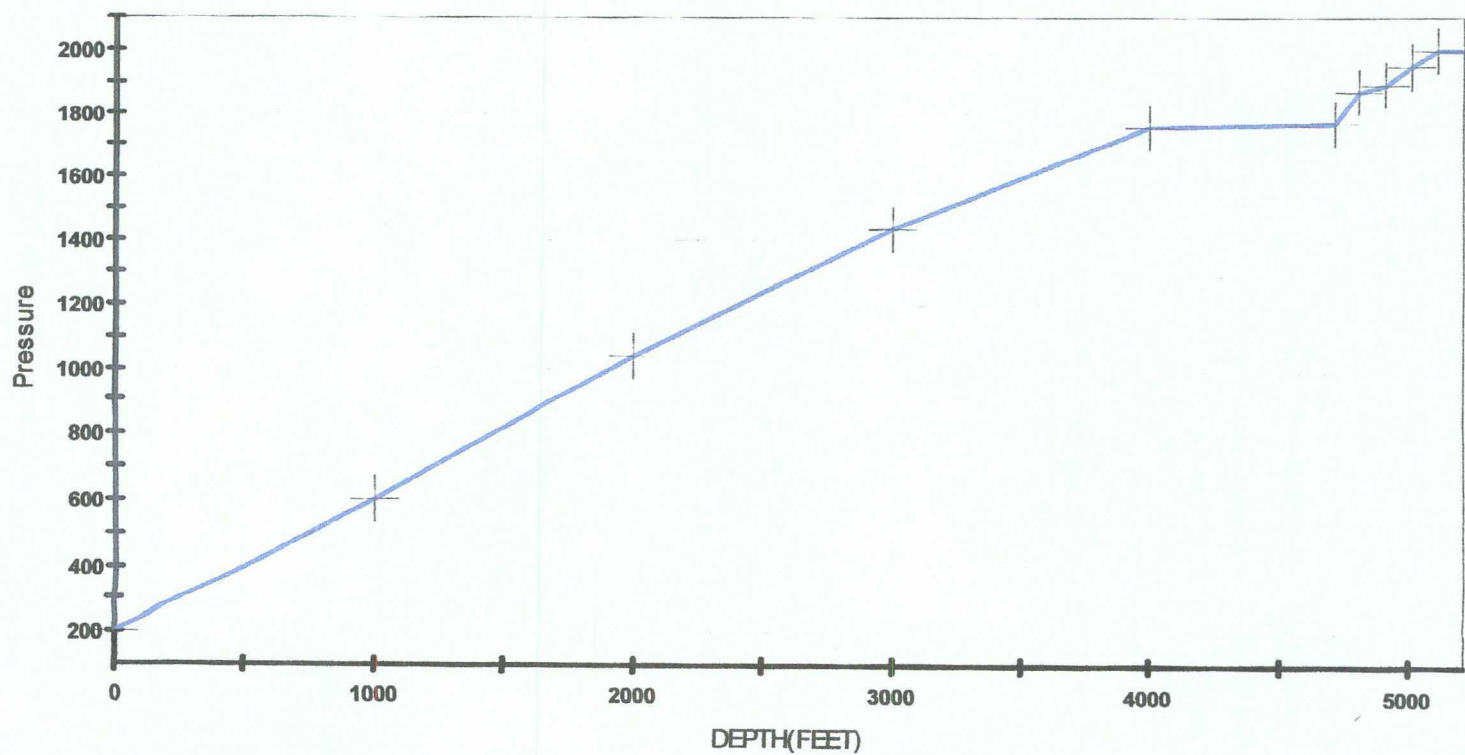
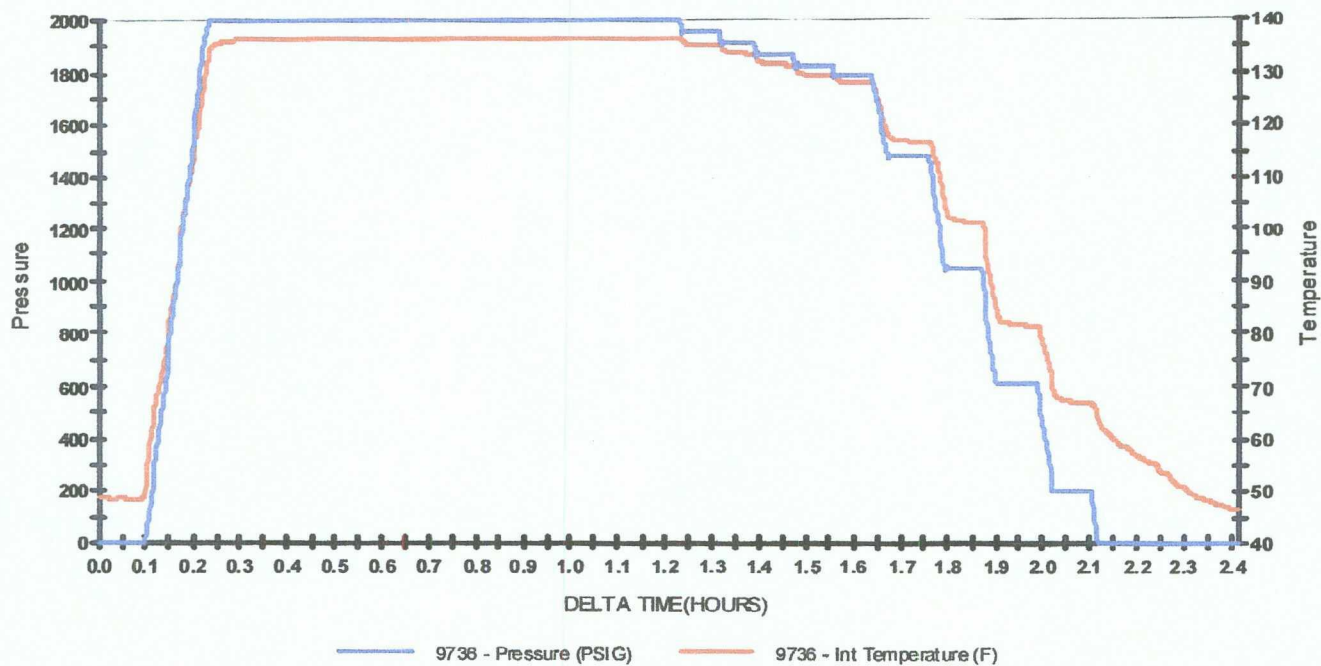
#	Real Time	Depth	Stop Time	Temp.(DEG.F)	Pres.(PSIG)	Gradient
1	12/18/2007 10:57:00	0.0	1100 - 1105	66.831	202.3	0.000
2	12/18/2007 10:50:05	1000.0	1053 - 1058	81.274	605.7	0.403
3	12/18/2007 10:43:00	2000.0	1046 - 1051	100.897	1041.6	0.436
4	12/18/2007 10:36:40	3000.0	1039 - 1044	116.173	1430.5	0.389
5	12/18/2007 10:29:25	4000.0	1032 - 1037	127.770	1751.7	0.321
6	12/18/2007 10:24:30	4708.0	1025 - 1030	129.271	1772.4	0.029
7	12/18/2007 10:18:55	4808.0	1020 - 1025	131.157	1866.4	0.940
8	12/18/2007 10:14:20	4908.0	1015 - 1020	133.385	1891.6	0.252
9	12/18/2007 10:09:50	5008.0	1010 - 1015	135.035	1949.1	0.575
10	12/18/2007 10:04:35	5108.0	1005 - 1010	136.370	1997.9	0.489
11	12/18/2007 10:00:10	5208.0	0905 - 1005	136.372	1998.0	0.001

FLUID LEVEL IS AT N/A

# Gradient Plots

Oil Company: GOLDEN OIL HOLDING CORP.

Well Location: T24N, R4W, SEC. 27



# PRESSURE VS DEPTH

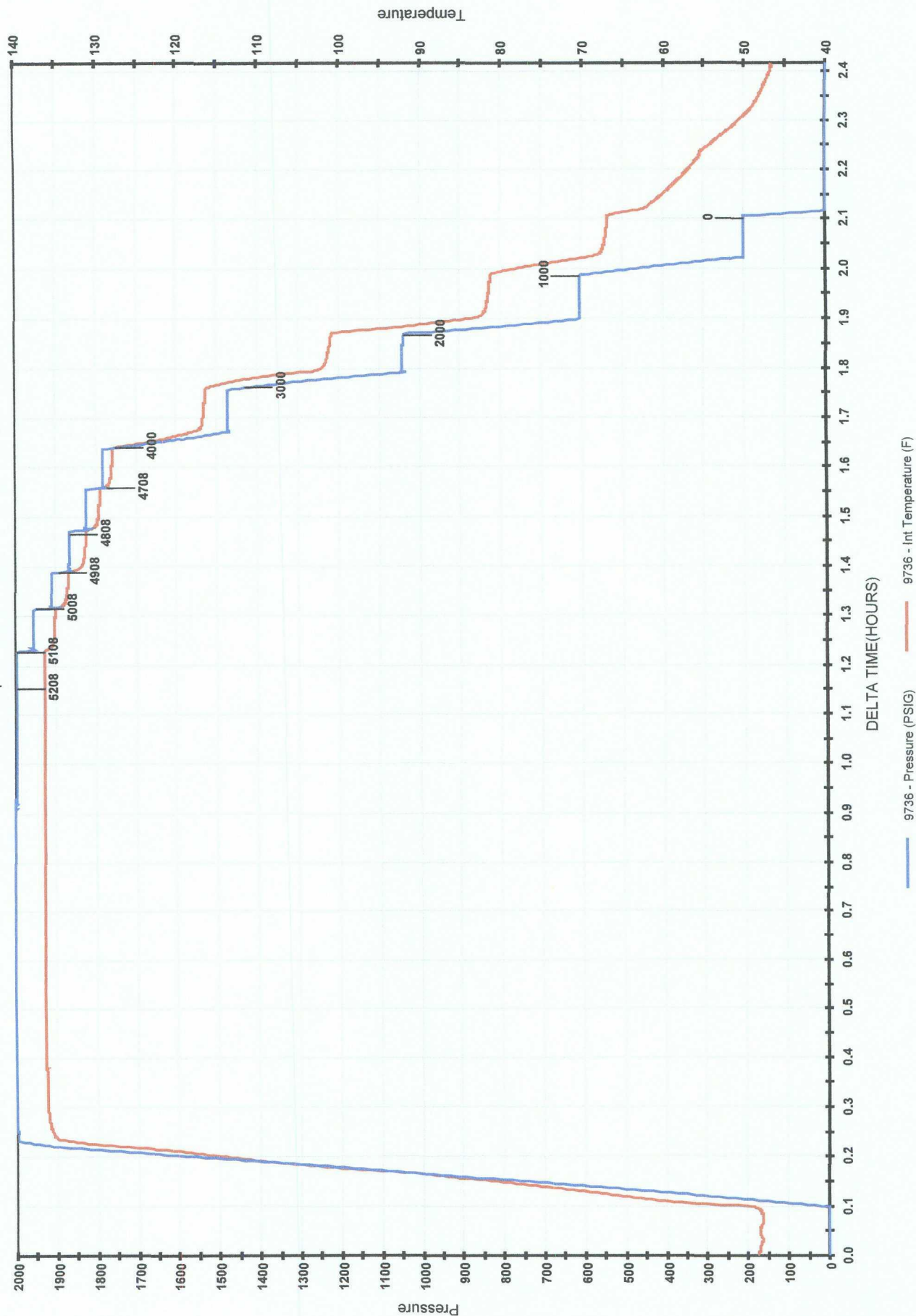
Company: GOLDEN OIL HOLDING CORP.

Location: Jicarilla #70-7

Date: 12/18/07

Serial# 9736

Max. Temperature: 136.377





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Farmington Field Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

IN REPLY REFER TO:

Jicarilla Contract 70 (WC)  
3162.3-2 (21110)

December 2, 2009

Ms. Melinda Billon  
Golden Oil Co.  
2000 Bering Dr., Ste. 255  
Houston, TX 77057

Dear Ms. Billon:

Reference is made to your well No. 7 Jicarilla 70 located 1850' FSL & 790' FEL sec. 27, T. 24 N., R. 4 W., Rio Arriba County, New Mexico, Lease Jicarilla Contract 70. Also referenced is your letter dated September 1, 2009, which stated the subject well would be placed on injection by November 30, 2009. If the well has been placed on injection, you are required to submit a subsequent report. If the well has not been placed in an active status, you are required to complete the work as approved, placing the well on injection and submit a subsequent or a procedure to plug and abandon report by December 31, 2009.

Failure to comply within the time above may result in an assessment in accordance with 43 CFR 3163.1.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the orders described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such requests shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 *et seq.*

If you have any questions please contact Stephen Mason with this office at (505) 599-6364.

Sincerely,

Stephen Mason  
Petroleum Engineer; Petroleum Management Team

cc:  
Jicarilla Apache Nation  
BIA, Jicarilla Agency

**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
(713) 626-1110

**By: Regular Mail**

United States Department of the Interior  
Mr. Stephen Mason  
Bureau of Land Management  
Farmington Field Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

**Friday, December 18, 2009**

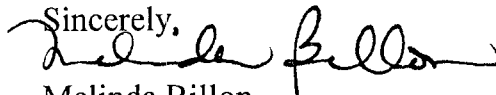
**Re: Contract #70 Well Jicarilla 70-7**

Dear Mr. Mason,

This letter is in reply to your letter dated December 2, 2009 regarding the above referenced water injector on the Jicarilla Reservation (copy attached).

Attached is a copy of our Subsequent 3160-5 Report as directed by your letter. We expect to place this well on injection as soon as possible barring inclement winter conditions.

If you have any additional questions or wish to discuss further, please contact me.

Sincerely,  
  
Melinda Billon  
For: Golden Oil Holding Corp.

Attachments

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OM B No. 1004-0135  
Expires: January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE- Other instructions on reverse side.**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
**Golden Oil Holding Corporation**

3a. Address  
**2000 Bering Drive, Suite 255, Houston, TX 77057**

3b. Phone No. (include area code)  
**713 626-1110**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**1850' FSL & 790' FEL, Section 27, T-24-N, R-4-W, Unit 1**

5. Lease Serial No.

**Contract #70**

6. If Indian, Allottee or Tribe Name

**Jicarilla Apache**

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**Jicarilla 70 #7**

9. API Well No.

**30-039-21827**

10. Field and Pool, or Exploratory Area

**S. Lindrith Gallup--Dk**

11. County or Parish, State

**Rio Arriba, NM**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input checked="" type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**We have requested EPA to reinstate our Permit (See Attached letter) to re work this Well for use as a salt water disposal Well. After EPA places our permit in an active status, we will perform a test water injection. After a sucessful test, we will purchase the necessary pumps, tanks and associated equipment to begin water disposal operations.**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Melinda L. Billon**

Title Manger

Signature

*Melinda L. Billon*

Date

**12-18-09**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

This information is being collected to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0135), Bureau Information Collection Clearance Officer, (WO-630), Mail Stop 401 LS, 1849 C St., N.W., Washington D.C. 20240



**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
(713) 626-1110

RECEIVED  
December 29, 2009  
2010 JAN 4 PM 1 29

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Jicarilla 70-7**

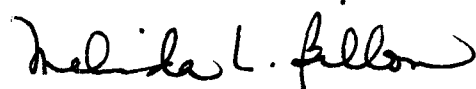
Dear Sir:

For your information and review, enclosed is a copy of correspondence and Form 3160-5, Sundry Notice and Reports on Wells, send to Mr. Stephen Mason of the Bureau of Land Management, Farmington, NM, informing Mr. Mason of the status of the water injection well Jicarilla 70-7 in response to Mr. Mason's letter dated December 2, 2009.

Please be advised that subject to winter weather conditions on the Jicarilla Reservation, we as Operator plan to implement water disposal operations using the Jicarilla 70-7 as soon as possible after the US Environmental Protection Agency permit is received.

If you have any questions, please let us know.

Sincerely,



Melinda L. Billon  
For Golden Oil Holding Corp.

Enclosures

MB@TEXGULF.COM

**Jones, William V., EMNRD**

---

**From:** Jones, William V., EMNRD  
**Sent:** Wednesday, January 06, 2010 9:02 AM  
**To:** 'mb@texgulf.com'  
**Cc:** Ezeanyim, Richard, EMNRD; Perrin, Charlie, EMNRD; Hayden, Steven, EMNRD; 'hurlbut.william@epa.gov'; 'jay\_spielman@nm.blm.gov'  
**Subject:** Disposal application for Jicarilla 70-7 API: 30-039-21827

Hello Melinda L. Billon:

The New Mexico Oil Conservation "Division" in Santa Fe received your letter January 4, 2010, with an enclosed copy of correspondence between Golden Oil Holding Company and the US BLM in Farmington concerning the injection status of this well.

As you know, the Division requires an "Injection Permit" for this well prior to this well being permitted to dispose of waters from your operations or other oil field operations. The Division received an application a couple years ago from Golden to utilize this well for disposal operations, but the permit was never granted. The permit was deferred pending approval for disposal by the US EPA Region 6 in Dallas.

As you know, the US EPA has Class II "primacy" over the Jicarilla Indian Lands as far as the Underground Injection Control program from the Safe Drinking Water Act. So a Class II UIC permit would be required from US EPA Region 6 in order to ensure underground waters are protected from disposal into this well.

In addition, the Oil Conservation Division of the State of New Mexico has rules covering Injection or Disposal of oil field waters intended in part to prevent waste of oil and gas and protect correlative rights. Those rules are interpreted to cover the entire State of New Mexico – even the Jicarilla Tribal lands. These applicable rules are contained in Part 26 (INJECTION) – as follows:

<http://www.emnrd.state.nm.us/OCD/documents/20098-5currentrules-new17and39.pdf>

Anyway, just reminding you that an EPA permit as well as a Permit from the Oil Conservation Division is required prior to Golden utilizing this well for disposal operations.

If Golden intends to use this well for disposal operations, please ensure a Class II permit has been issued by the US EPA in Dallas (Bill Hurlbut) and submit an updated application to the New Mexico Oil Conservation Division on form C-108 with all supporting attachments, addressed to the Engineering Bureau of the Oil Conservation Division in Santa Fe, NM, and wait until this permit is approved by both agencies prior to any disposal.

The C-108 form is available as follows:

<http://www.emnrd.state.nm.us/ocd/documents/c108.pdf>

Regards,

William V. Jones PE  
New Mexico Oil Conservation Division  
1220 South St. Francis  
Santa Fe, NM 87505  
505-476-3448

**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
(713) 626-1110

Friday  
October 29, 2010

**Certified Mail - RRR**

Ms. Merldine Oka  
Administrator  
Jicarilla Apache Nation  
Oil & Gas Administration  
44 Dulce Rock Road  
Dulce, New Mexico 87528

**Re: Water Disposal Facility  
Jicarilla 70-7 Well  
Rio Arriba County, New Mexico**

Dear Ms. Oka:

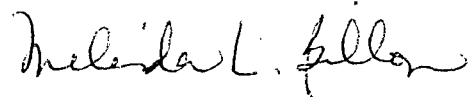
This letter is to inform you that we have filed Permit Applications with the Environmental Protection Agency and with the New Mexico State Oil Conservation Division (OCD) to obtain approval to convert the above well to a water disposal facility.

In accordance with the requirements of the OCD application process, we are providing you with a copy of the OCD Application (Form C 108).

Golden Oil Holding Corporation intends to utilize the water injection facility immediately upon obtaining the necessary documentation and permits. Feel free to call me at (713) 626-1110 if you have any questions or require additional information.

Thank you for your cooperation.

Sincerely,



Melinda Billon  
For: Golden Oil Holding Corporation

Enclosure

**John Thompson**

---

**From:** "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>  
**To:** <john@walsheng.net>  
**Cc:** "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>; "Brooks, DavidK., EMNRD" <david.brooks@state.nm.us>; <CarlJ.Chavez@state.nm.us>; "Hayden, Steven, EMNRD" <steven.hayden@state.nm.us>  
**Sent:** Thursday, June 28, 2007 3:35 PM  
**Subject:** SWD Application on behalf of Golden Oil Holding Corporation: Jicarilla 70-7 API No. 30-039-21827

Hello Mr. Thompson:

We realize you must obtain a UIC injection permit from Region 6 EPA out of Dallas and are working with Bill Hurlbut.

Golden does not need a "UIC permit" from the OCD but does need an "Injection Permit" and must comply with OCD rules, especially those numbered 701 thru 710 and submit the application on form C-108 - as you have done.

After reviewing this application the following questions arose:

1) What is the source of "other non-hazardous waste fluids" which are planned for injection into this well? This may be a Class I well depending on the source of these fluids - you should talk about this with the EPA and probably already are discussing it with them. I don't think this will affect the OCD permit, but must check with David Brooks about this.

2) The new OCD notice rules for injection wells are contained in Division Rule 701.B(2) copied below:

**701B.(2)** The applicant shall furnish, by certified or registered mail, a copy of the application to each owner of the surface of the land on which each injection or disposal well is to be located and to each leasehold operator or other "affected person" within any tract wholly or partially contained within one-half mile of the well. Affected person shall mean the (a) division designated operator; (b) in the absence of an operator, any lessee whose interest is evidenced by a written conveyance document either of record or known to the applicant as of the date he files the application; and (c) in the absence of an operator or lessee, any mineral interest owner whose interest is evidenced by a written conveyance document either of record or known to the applicant as of the date he filed the application.

Please make sure all area within the 1/2 mile AOR has a Division designated Operator in the Mesaverde - otherwise you must find out who has the Mesaverde leased or, if not leased, who is the mineral owner - and notify those parties. Please itemize who are affected parties in the following Lands:

NW/4 NW/4 of Section 35

Units A, B, C of Section 34

✓ E/2 of Section 26 and within the arc of the 1/2 mile circle within the circle in Section 27

3) Please let us know the members of the Mesaverde in that area - is the "Menefee" present in this well? Your application says the Point Lookout is from 5045 to 5252 and injection perf's will be from 4760 to 5256 feet. What is the formation directly above the Point Lookout which will be injected into? is it only Cliff House?

4) The newspaper notice should be re-done and all injection members of the Mesaverde formation listed (?Cliff House? and Point Lookout) and the address of the OCD corrected - the address used was very old and the post office does not forward from it anymore.

5) As you know, the OCD can initially allow the maximum injection pressure at 952 psi (0.2 times 4760 feet) and Golden can run a Step Rate Test and apply to the EPA and OCD for a higher pressure.

Two points not pertinent to approval or not of this application: Try to put API numbers with all well names in your injection applications - that helps us review. Your wellbore diagrams are very nice - but the KT boundary is below the Ojo Alamo and above the Fruitland - usually in the Kirtland formation. So the Cretaceous does not extend to the surface. I'm sure the geologists have mentioned this.

6/29/2007



ENGINEERING & PRODUCTION CORP.

RECEIVED

2007 AUG 3 AM 9 32

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping



7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

**New Mexico Oil Conservation Division  
Attn. William V. Jones, PE  
1220 South St. Francis Dr  
Santa Fe, New Mexico 87505**

**July 31, 2007**

RE: Jicarilla 70-7 SWD permit

Dear Mr. Jones:

The following is in regards to your email that you sent on June 28<sup>th</sup> requesting additional information for Golden Oil Holding Corporation's Jicarilla 70-7 SWD permit.

- 1) "Other non-hazardous waste fluids", was meant to be things like left over water from frac jobs (2% KCl water), flow back water, left over cement water, etc.
- 2) 701b (2). "The applicant shall furnish, by certified or registered mail, a copy to each owner of the surface land on which each injection or disposal well is to be located and to each leasehold operator or other "affected persons...."

In this case the Jicarilla Apache Tribe is the only surface owner. Todd Osmeara and Annette Troivio with the Jicarilla Oil & Gas Administration Department were sent by certified mail a copy of the EPA permit application as well as a copy of the NMOC application. Also, George Loretto with the BIA Realty Office was sent by certified mail a copy of each of the permit applications. (see attached copy of certified mail receipt).

Bill Hurlbut, with the EPA contacted me that the matter was brought in front of the Jicarilla Tribal Council and approved. His office (the EPA) was contacted but as of yet I have not received anything but verbal approval from the Jicarilla Tribe.

In regards the leaseholder or designated operator of the Mesaverde in the area of review, specifically the NW/4 NW/4 of section 35, Units A, B & C of section 34, ~~E~~<sup>W</sup>/2 of section 26 and within the 1/2 mile radius in section 27, Golden Oil Holding Corp is the only leaseholder and operator in the area affected.

- 3) Mesaverde tops: The Mesaverde Group in the Jicarilla 70-7 wellbore is found from 4528' to 5252'. The Cliff House is from 4528' to approx 4562'. The Menefee is from 4562 to 5044' and the Point Lookout is from 5044' to 5252'.
- 4) Please find the attached copy of the newspaper notice that was re-run with the correct information.



ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting  
Lease Management  
Contract Pumping

7415 East Main  
Farmington, New Mexico 87402  
(505) 327-4892 • Fax: (505) 327-9834

- 5) Depending upon the initial results Golden Oil is aware that a step rate test could be done and if needed, apply for a higher allowable injection pressure.

I appreciate your attention to this matter and if you have any other questions or concerns, regarding the application please feel free to contact me anytime.

Sincerely,

John C. Thompson  
Engineer

Cc: Steve Hayden – Aztec Office

# AFFIDAVIT OF PUBLICATION

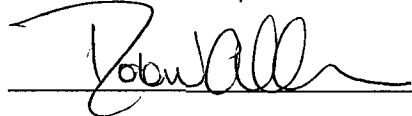
Ad No. 55357

## STATE OF NEW MEXICO County of San Juan:

ROBIN ALLISON, being duly sworn says:  
That she is the CLASSIFIED MANAGER of  
THE DAILY TIMES, a daily newspaper of  
general circulation published in English at  
Farmington, said county and state, and that  
the hereto attached Legal Notice was  
published in a regular and entire issue of the  
said DAILY TIMES, a daily newspaper duly  
qualified for the purpose within the meaning of  
Chapter 167 of the 1937 Session Laws of the  
State of New Mexico for publication and  
appeared in the Internet at The Daily Times  
web site on the following day(s):

Wednesday July 4, 2007

And the cost of the publication is \$52.97

  
\_\_\_\_\_

ON 7/12/07 ROBIN ALLISON  
appeared before me, whom I know personally  
to be the person who signed the above  
document.

  
My Commission Expires November 17, 2008

## COPY OF PUBLICATION

verde formation at a  
maximum rate of 2000  
bwpd at an initial  
maximum pressure of  
952 psig.

Questions concerning  
this proposal can be  
sent to John C.  
Thompson, Walsh En  
gineering and Produc  
tion Corp., 7415 East  
Main Street Farming  
ton New Mexico  
87402 (505) 327-4892  
(agent for Golden Oil).

Interested parties  
should file comments  
or objections and re

quests for hearing with  
the New Mexico Oil  
Conservation Division,  
Attention William  
Jones, 1220 South St.  
Francis, Santa Fe, New  
Mexico 87505 within  
15 days of this notice

Legal Notice  
Golden Oil Holding  
Corporation, the op  
erator of the Jicarilla  
#70-7, proposes to  
convert the well from a  
Dakota/Gallup gas  
well into a Class II salt  
water disposal well.  
The well is located in  
Section 27 (unit 1),  
Township 24N, Range  
4W. Produced water  
will be disposed into  
the Point Lookout, Me  
nefee and Cliff House  
zones within the Mesa

Legal No. 55357 pub  
lished in The Daily  
Times Farmington,  
New Mexico on  
Wednesday, July 4,  
2007.

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

Jicarilla Oil & Gas Administration  
Department  
Attn: Todd Osmeared  
Annette Torivio  
P.O. Box 146  
Dulce, NM 87528

## 2. Article Number

(Transfer from service label)

7006 2150 0004 0531 3324

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

☒ Agent☐ Addressee

## B. Received by (Printed Name)

THOMAS COMILLA

## C. Date of Delivery

6/14/07

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

## 3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

## 1. Article Addressed to:

BIA Realty Office  
Attn: George Loretto  
P.O. Box 167  
Dulce, NM 87528

## 2. Article Number

(Transfer from service label)

7006 2150 0004 0531 3355

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

## A. Signature

☒ Agent☐ Addressee

## B. Received by (Printed Name)

T. LORETTO

## C. Date of Delivery

6/13/07

D. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

RECEIVED JUN 15 2007

## 3. Service Type

☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

## 4. Restricted Delivery? (Extra Fee)

☐ Yes



**Warnell, Terry G, EMNRD**

---

**From:** john kirkpatrick [johnkirkpatrick06@gmail.com]  
**Sent:** Tuesday, November 02, 2010 7:15 AM  
**To:** Warnell, Terry G, EMNRD  
**Cc:** Mindy Billon  
**Subject:** SWD Administrative Application Checklist

Terry, I am filling out the subject application for Golden Oil Holding Corp. for our Salt Water Disposal well. I don't know what to check in block 2 of the form. Could you please let me know what notifications are required for an application for a salt water disposal well?

John Kirkpatrick  
214 354 6761

**GOLDEN OIL HOLDING CORPORATION**  
**2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057**  
**(713) 626-1110**

Wednesday  
December 22, 2010

RECEIVED OCD  
2011 JAN -3 P 1:18

**By Regular Mail**

Mr. William Jones, P.E.  
New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

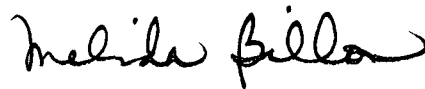
**Re: Water Disposal Well**  
**Jicarilla 70-7**  
**Rio Arriba County, New Mexico**

Dear Mr. Jones:

This letter transmits a copy of our notice concerning the above well that we placed in the Farmington Daily Times on Saturday, November 13, 2010.

Feel free to call me at (713) 626-1110 if you have any questions or require additional information.

Sincerely,



Melinda Billon  
For: Golden Oil Holding Corporation

Enclosure

**AFFIDAVIT OF PUBLICATION**

**COPY OF PUBLICATION**

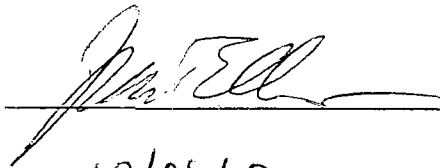
**Ad No. 65425**

**STATE OF NEW MEXICO  
County of San Juan:**

JOHN ELCHERT, being duly sworn says:  
That HE is the PUBLISHER of THE DAILY  
TIMES, a daily newspaper of general  
circulation published in English at Farmington,  
said county and state, and that the hereto  
attached Legal Notice was published in a  
regular and entire issue of the said DAILY  
TIMES, a daily newspaper duly qualified for  
the purpose within the meaning of Chapter  
167 of the 1937 Session Laws of the State of  
New Mexico for publication and appeared in  
the Internet at The Daily Times web site on  
the following day(s):

Saturday, November 13, 2010

And the cost of the publication is \$47.67



ON 12/08/10 JOHN ELCHERT  
appeared before me, whom I know personally  
to be the person who signed the above  
document.

  
My Commission Expires - 11/05/11

**Legal Notices 152**  
Golden Oil Holding Corporation, the operator of the Jicarilla #70-7 well, proposes to convert the well from a Dakota/Gallup gas well into a Class II salt water disposal well. This well is located in Section 27 (Unit 1), Township 24N, Range 4W. Produced water and other non-hazardous waste fluid is to be disposed of into the Point Lookout formation at a maximum rate of 2000 bwpd at 2,933 psi. Questions concerning this proposal can be sent to Paul C. Thompson, Walsh Engineering and Production Corp., 7415 East Main St., Farmington, NM 87402-505-327-4892 (Agent for Golden Oil). Interested parties should file comments, objections and requests for hearings with the New Mexico Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days of this notice.  
Legal No. 65425 published in The Daily Times on November 13, 2010.

**GOLDEN OIL HOLDING CORPORATION**  
**2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057**  
**(713) 626-1110**

Friday  
October 29, 2010

**Certified Mail - RRR**

Ms. Merldine Oka  
Administrator  
Jicarilla Apache Nation  
Oil & Gas Administration  
44 Dulce Rock Road  
Dulce, New Mexico 87528

**Re: Water Disposal Facility  
Jicarilla 70-7 Well  
Rio Arriba County, New Mexico**

Dear Ms. Oka:

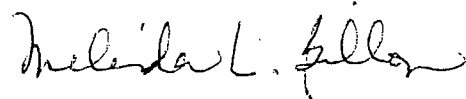
This letter is to inform you that we have filed Permit Applications with the Environmental Protection Agency and with the New Mexico State Oil Conservation Division (OCD) to obtain approval to convert the above well to a water disposal facility.

In accordance with the requirements of the OCD application process, we are providing you with a copy of the OCD Application (Form C 108).

Golden Oil Holding Corporation intends to utilize the water injection facility immediately upon obtaining the necessary documentation and permits. Feel free to call me at (713) 626-1110 if you have any questions or require additional information.

Thank you for your cooperation.

Sincerely,



Melinda Billon  
For: Golden Oil Holding Corporation

Enclosure

**GOLDEN OIL HOLDING CORPORATION**  
2000 BERING DRIVE / SUITE 255 / HOUSTON, TEXAS 77057  
(713) 626-1110

Friday  
October 29, 2010

**Certified Mail - RRR**

Ms. Merldine Oka  
Administrator  
Jicarilla Apache Nation  
Oil & Gas Administration  
44 Dulce Rock Road  
Dulce, New Mexico 87528

**Re: Water Disposal Facility  
Jicarilla 70-7 Well  
Rio Arriba County, New Mexico**

Dear Ms. Oka:

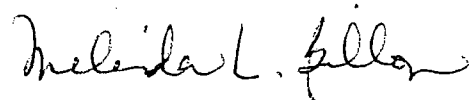
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In accordance with the requirements of the OCD application process, we are providing you with a copy of the OCD Application (Form C 108).

Golden Oil Holding Corporation intends to utilize the water injection facility immediately upon obtaining the necessary documentation and permits. Feel free to call me at (713) 626-1110 if you have any questions or require additional information.

Thank you for your cooperation.

Sincerely,



Melinda Billon  
For: Golden Oil Holding Corporation

Enclosure

**Jones, William V., EMNRD**

---

**From:** Melinda Billon [mb@texgulf.com]  
**Sent:** Tuesday, February 08, 2011 3:37 PM  
**To:** Jones, William V., EMNRD  
**Subject:** RE: Disposal application from Golden Oil Holding Corporation: Jicarilla 70 Well No. 7  
30-039-21827 Mesaverde from 4760 to 5256  
**Attachments:** OCD.tif

Dear Mr. Jones:

Regarding the Jicarilla 70-7, we have previously responded to most of your requests and questions below, but to follow up and make sure all of your questions are answered, we offer the following:

- a. “ Please send in our “administrative application checklist” as Terry has requested. Just check any boxes you think should apply.”  
This completed checklist was sent to you on November 3, 2010, (copy enclosed).
- b. “Has the EPA Region 6 issued a UIC permit yet or are you applying both places at the same time?”  
Application has been submitted to the EPA Region 6 also.
- c. “Is the BLM aware of your application to the OCD? They have asked us to ensure applicants send a certified copy to them of any C-108 application.”  
Yes, the BLM is aware of our application to the OCD and the EPA.
- d. “Would you please post another newspaper notice. I have one from 2007, but it is a bit dated and it used the wrong address for the OCD here in Santa Fe.”  
On December 22, 2010 we sent you a copy of the updated newspaper notice (copy enclosed).
- e. “We ask applicants for SWD to set a bottom plug inside the wellbore within approx 200 feet below the permitted disposal interval. In this case, we ask you to set a plug at approx 5450 or as directed by the BLM.”  
Setting the bottom plug will be done in conjunction with the perforating.
- f. “I see random stringers of coally rocks in this well. Is the Menefee present in this intended disposal interval? “  
There are no proposed perforations in the Menefee formation in this well. The Menefee is present but is not proposed to be used as a disposal zone.
- g. “Do you intend to swab test prior to commencing disposal? Or how else do you know this interval is non-productive? If you have a mudlog over this interval or a quick log analysis, please send. “  
We will perforate a few holes in the Point Lookout and a few more in the Cliff House members and swab each interval separately beneath a packer. Care will be taken to collect water samples that are indicative of the formation fluids and tested by a certified laboratory.

“ It appears from your submittal of water analysis, the Chacra in this area is below 10,000 TDS, therefore “protectable”. Please review your drilling/cementing program for wells drilled in this area and ensure that this Chacra interval as well as the tertiary formations above the Fruitland are always covered with cement to prevent any movement or commingling of annulus fluids.

This item is still under review.

If you have any additional questions, please let us know.

Sincerely,

Melinda Billon

For Golden Oil Holding Corporation

(713)626-1110

---

**From:** Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

**Sent:** Tuesday, November 02, 2010 10:42 AM

**To:** Melinda Billon

**Cc:** Warnell, Terry G, EMNRD; Hurlbut.William@epamail.epa.gov; Jay\_Spielman@blm.gov; Perrin, Charlie, EMNRD; Hayden, Steven, EMNRD

**Subject:** Disposal application from Golden Oil Holding Corporation: Jicarilla 70 Well No. 7 30-039-21827 Mesaverde from 4760 to 5256

Hello Melinda:

Thank you for sending in this C-108. I looked also at the 2007 application and our subsequent correspondence. Most of any questions were answered already by that earlier information. I understand that Golden Oil owns rights to the Mesaverde minerals within ½ mile of this well and the Jicarilla Apache own the surface.

I only have a few requests and some questions that should not be too hard to answer:

- a. Please send in our "administrative application checklist" as Terry has requested. Just check any boxes you think should apply.
- b. Has the EPA Region 6 issued a UIC permit yet or are you applying both places at the same time?
- c. Is the BLM aware of your application to the OCD? They have asked us to ensure applicants send a certified copy to them of any C-108 application.
- d. Would you please post another newspaper notice. I have one from 2007, but it is a bit dated and it used the wrong address for the OCD here in Santa Fe.
- e. We ask applicants for SWD to set a bottom plug inside the wellbore within approx 200 feet below the permitted disposal interval. In this case, we ask you to set a plug at approx 5450 or as directed by the BLM.
- f. I see random stringers of coally rocks in this well. Is the Menefee present in this intended disposal interval?
- g. Do you intend to swab test prior to commencing disposal? Or how else do you know this interval is non-productive? If you have a mudlog over this interval or a quick log analysis, please send.

It appears from your submittal of water analysis, the Chacra in this area is below 10,000 TDS, therefore "protectable". Please review your drilling/cementing program for wells drilled in this area and ensure that this Chacra interval as well as the tertiary formations above the Fruitland are always covered with cement to prevent any movement or commingling of annulus fluids.

Thank You,

William V Jones, P.E.

Engineering, Oil Conservation Division

1220 South St. Francis Drive, Santa Fe, NM 87505

Tel 505.476.3448 ~ Fax 505.476.3462



## Injection Permit Checklist (08/27/2010)

WFX PMX (SWD 1265) Permit Date 2/21/11 UIC Qtr 0 (11/10)

# Wells 1 Well Name(s): Jicarilla 70#7

API Num: 30-039-21827 Spud Date: 8/80 New/Old: 0 (UIC primacy March 7, 1982)

Footages 1850 FSL/790 FEL Unit I Sec 27 Tsp 24N Rge 4W County Rio Arriba

General Location:

Operator: Golden Oil Holdings Corp. Contact Malinda Billion

OGRID: 240787 RULE 5.9 Compliance (Wells) 2/43 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed Current Status: OLD Gally/DATA Producer (P. 2/7) (P. 2/7)

Planned Work to Well:

Diagrams: Before Conversion After Conversion Elogs in Imaging File:

Well Details:	SIZES		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole,.....	Pipe				
New ___ Existing <input checked="" type="checkbox"/> Surface	4 5/8	8 5/8	220		150	CIRC
New ___ Existing ___ Intern						
New ___ Existing <input checked="" type="checkbox"/> LongSt	7 7/8	4 1/2	7451	3062' 1450/1610		CIRC/12360 to 1000
New ___ Existing ___ Liner				502 2/3/06 2805X 4803-4931		
New ___ Existing ___ OpenHole						

Depths/Formations:

	Depths, Ft.	Formation	Tops?
Formation(s) Above	4530	MYRD	<input checked="" type="checkbox"/>
Injection TOP:	4760		
Injection BOTTOM:	5256	P.L.O.	
Formation(s) Below			

Capitan Reef? (Rotash? Noticed?) [WIP?] Noticed? Salado Top/Bot

Fresh Water: Depths: 3000 Formation CHORO Testing Wells? NO Analysis? Affirmative Statement ☒

Disposal Fluid Analysis? Sources: Gally/DATA/PC/ (TRUCKED)

Disposal Interval: Analysis? Production Potential/Testing: SWAP Test

Notice: Newspaper Date Surface Owner JIC. TRIBE Mineral Owner(s)

RULE 26.7(A) Affected Persons: only Golden Oil

AOR: Maps? ☒ Well List? ☒ Producing in Interval? NO Wellbore Diagrams? ☒

.....Active Wells 0 Repairs? 0 Which Wells?

.....P&amp;A Wells 3 Repairs? 0 Which Wells?

Questions: Set CIBP within 200 Request Sent Reply: