

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
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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



ADMINISTRATIVE APPLICATION CHECKLIST

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.

Christian Combs

Print.or Type Name

Signature

Manager-Regulatory S. Division

Title

christian.combs@chk.com

7/20/09

Date

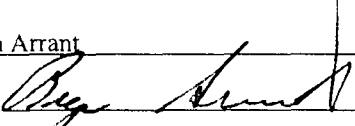
BEFORE THE OIL CONSERVATION DIVISION
Santa Fe, New Mexico
Case No.'s 14362 & 14363 (Consolidated) Exhibit No. 18

Submitted by:
CHESAPEAKE OPERATING, INC.
Hearing Date: September 16, 2009

-mail Address

RECEIVED OOD
SEP 21 2 44 PM

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE : ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: Chesapeake Operating, Inc.
ADDRESS : P.O. Box 1894 Oklahoma City, OK 73154-0496
CONTACT PARTY : Bryan Arrant PHONE : (405)935-3782
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ Yes ☒ No
If yes, give the Division order number authorizing the project _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such 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 source of drinking water.
- XIII. Applicants must complete the 'Proof of Notice' section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Bryan Arrant TITLE: Senior Regulatory Comp. Sp.
SIGNATURE:  DATE: 07/20/2009
E-MAIL ADDRESS: bryan.arrant@chk.com
- * If the information required under Sections VI, VII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal: _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, NM 87505 within 15 days.

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

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

INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.WELL NAME & NUMBER: Carter # 2WELL LOCATION: 1330' FNL & 1980' FEL

G

28

16 South

37 East

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8"

Cemented with: 360 sx. or ft³

Top of Cement: 0' Method Determined: CirculatedIntermediate Casing

Hole Size: 11" Casing Size: 8 5/8"

Cemented with: 1800 sx. or ft³

Top of Cement: 0' Method Determined: CirculatedProduction Casing

Hole Size: 7 7/8" Casing Size: 5 1/2"

Cemented with: 350 sx. or ft³

Top of Cement: 10,550' Method Determined: Temp SurveyTotal Depth: 11,750'Injection Interval

11,371' feet to 11,426'

(Peforated or Open Hole: indicated which)

INJECTION WELL DATA SHEETTubing Size: 2 3/8" Lining Material: Plastic LinedType of Packer: Baker Loc SetPacker Setting Depth: 11,300'

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

Additional Data1. Is This a new well drilled for injection? _____ Yes X NoIf no, for what purpose was the well originally drilled? Oil & Gas2. Name of the Injected Formation: Strawn3. Name of Field or Pool (if applicable): Lovington; Strawn, Northeast Oil4. 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. No5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: Lovington; Strawn, NE Oil (11,331'-11469')Wildcat; San Andres Oil (5090'-5100')

INJECTION WELL DATA SHEET

OPERATOR: Chesapeake Operating, Inc.WELL NAME & NUMBER: Shipp Z1 # 2WELL LOCATION: 660' FNL & 1100' FWL
FOOTAGE LOCATIONUNIT LETTER DSECTION 27TOWNSHIP 16 SouthRANGE 37 EastWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 17 1/2" Casing Size: 13 3/8"Cemented with: 450 sxs sx. or ft³Top of Cement: 0' Method Determined: CirculatedIntermediate CasingHole Size: 11" Casing Size: 8 5/8"Cemented with: 2250 sx. or ft³Top of Cement: 0' Method Determined: CirculatedProduction CasingHole Size: 7 7/8" Casing Size: 5 1/2"Cemented with: 450 sx. or ft³Top of Cement: 9845' Method Determined: CalculatedTotal Depth: 11,862'Injection Interval11,461' feet to 11,570'

(Peforated or Open Hole; indicated which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Plastic Lined

Type of Packer: Baker Loc-Set

Packer Setting Depth: 11,385'

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

Additional Data

1. Is This a new well drilled for injection? _____ Yes X No _____
 If no, for what purpose was the well originally drilled? Oil & Gas
2. Name of the Injected Formation: Strawn
3. Name of Field or Pool (if applicable): Lovington, Upper Penn, Northeast Oil
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. No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area: Lovington, Penn, NE (11,038'-11,498')

**New Mexico Oil Conservation Division form (C-108) Application Authorization for
Secondary Recovery**

Proposed Carter-Shipp Strawn Unit Area

List of wells for this application:

- **Carter #2**
Section 28, T-16-S R-37-E
Unit G, 1330' FNL & 1980' FEL
Lea Co., N.M.
API # 30-025-29248

- **Shipp ZI #2**
Section 27, T-16-S R-37-E
Unit D, 660' FNL & 1100' FWL
Lea Co., N.M.
API # 30-025-28994

Chesapeake Operating, Inc. respectfully proposes to re-enter the above noted wells and convert to injection in the Strawn formation.

Please find the following application authorization for secondary recovery (NMOCD's form C-108) along with item information, exhibits and attachments.

- Item I** The purpose of this application is for secondary recovery.
- Item II** Chesapeake Operating, Inc. (OGRID # 147179)
P.O. Box 18496
Oklahoma City, OK 73154-0496
Bryan G. Arrant, Contact phone # 405-935-3782
- Item III** See attached data sheets
- Item IV** This is not an existing project.
- Item V** See attached maps that identify all wells and leases within two miles of the proposed injection zones. Schematics are also attached for all plugged wells illustrating all plugging detail.
- Item VI** See attached tabulation of wells of public record within area of review which penetrate the proposed injection zone and current well-bore diagrams for the (2) ½ mile of AORs.
- Item VII**
- 1) Daily average disposal rate is expected to be 1800 BWPD. Maximum daily rate would be approximately 1800 BWPD.

- 2) The system will be closed.
- 3) The proposed average disposal pressure is expected to be 2274 psig and the maximum pressure is expected to be 2290 psig.
- 4) The source of water to inject is from produced salt water from nearby wells which produce from the Wolfcamp and Strawn formations.
- 5) Injection will be in the Strawn formation of the Pennsylvanian system. There currently is no production in Strawn and there is no production anywhere within the ½ mile area of the injection wells.

Item VIII

The proposed Carter Shipp Strawn Unit, covering approximately 360 acres, is situated locally in eastern central Lea County, New Mexico and regionally near the shelf margin of the Northwest Shelf of the Delaware Basin and is part of the larger complex of mounds in the Lovington Northeast Field. The proposed unit produces from the Strawn Formation and is an east to west trending phylloid algal bioherm or mound. The Strawn Formation is Pennsylvanian-age directly overlain by the Canyon and underlain by the Atoka, both of which are also Pennsylvanian-age. In general, the Strawn mounds are isolated limestone coralg al bioherm lithofacies composed of phylloid algal plates and encrusting tubular forams with minor corals. Tight carbonate mudstones are found between mounds and encase each mound. Porosity within mounds average 8-10% and consists of primary shelter and intergranular pores, as well as secondary moldic, vuggy, and fracture (breccia) porosity.

Fresh water in this area is from the Ogallala formation. The depth from the surface is approximately 34' down to a maximum depth of 85'.

Geological Tops for Carter-Shipp Strawn Unit:

Well Name	T/of Lower Strawn	T/of Lower Strawn "B" SS
Carter # 1	11,328'	11,582'
Carter #2	11,298'	11,522'
Shipp ZI #2	11,370'	11,633'
Shipp ZI #3	11,332'	11,598'

Item IX Acidize perms w/5000 gals 15% Ne Fe acid dropping rock salt as a diverter. Displace acid into perforations.

Item X Electric logs are available for public record on NMOCD's web-site.

Item XI There are under ground sources of drinking water overlying the proposed injection zones. Water analysis from the fresh water wells within the AOR are attached.

XII. GEOLOGIC AND ENGINEERING STATEMENT

The available geologic and engineering have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Item XIII Proof of Notice

Both wells are located on Fee land.

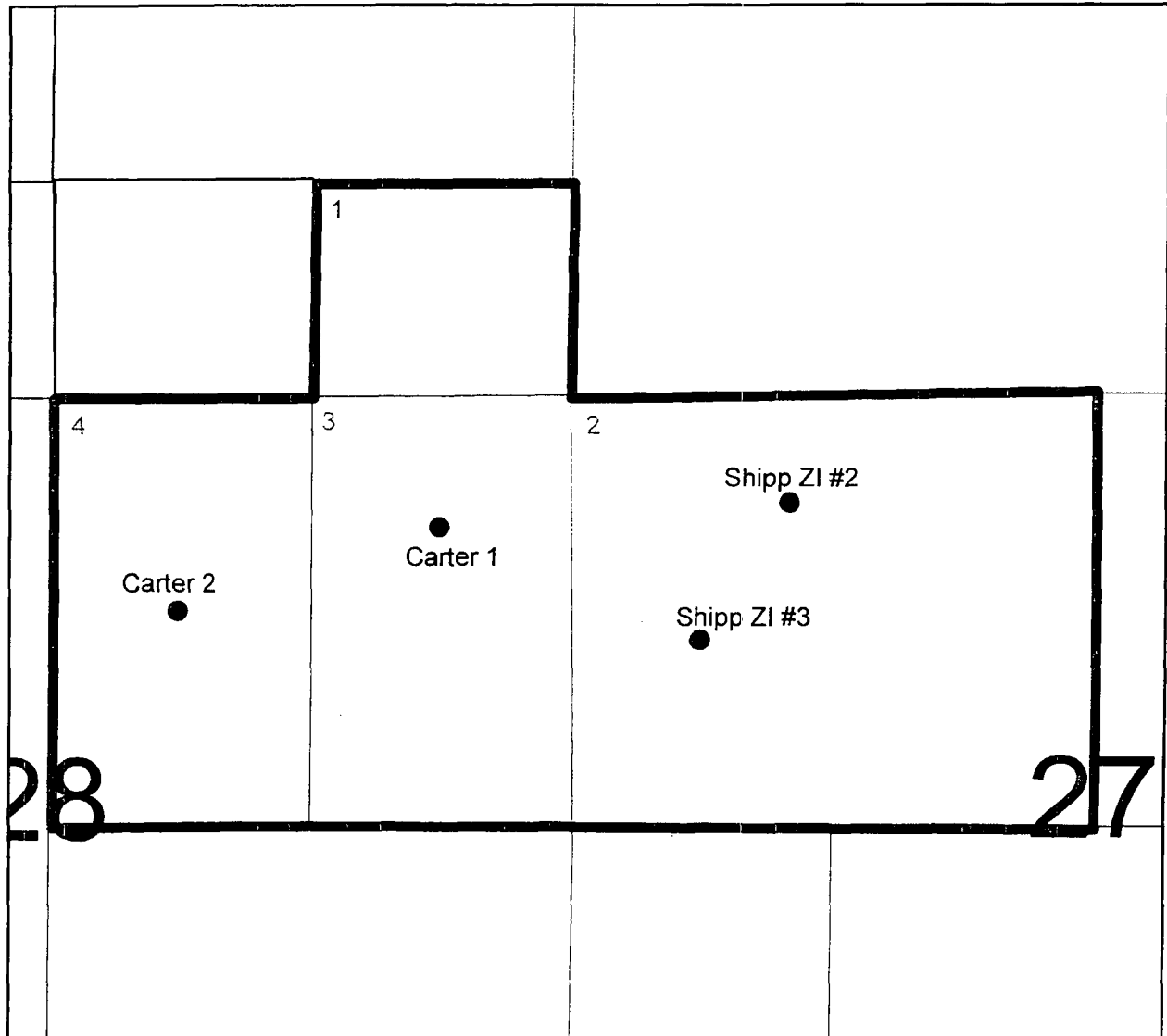
Attached is a complete list of surface owners, offset oil and gas lessees or mineral owners as applicable within one-half mile of the (2) AORs.

A copy of the C-108 application has been sent by registered or certified mail including a copy to the New Mexico Oil Conservation's District I office.

Additional exhibits included in this application are:

Exhibit "A"	Proposed Water-flood Unit Boundary Map
Exhibit "B"	List of formation tops for the Carter #2 and Shipp ZI #2 wells
Exhibit "C"	List of water wells from the New Mexico State Engineer's website that shows groundwater data within AOR.
Exhibit "D"	Proposed procedures to convert to injection and actual and proposed well-bore schematics.

EXHIBIT "A"



TOWNSHIP 16 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

CARTER-SHIPPI STRAWN UNIT CHESAPEAKE EXPLORATION, LLC

- Wells
- ▭ Proposed Waterflood Unit Boundary

- ▭ Federal Acreage = 0 acres
- ▭ State Acreage = 0 acres
- ▭ Fee Acreage = 360.00 acres
- Total Acreage = 360.00 acres

EXHIBIT "B"

Geological formation Tops

Amerind Oil Company Limited Partnership
Carter #2
Unit G, Sec. 28, T-16-S R-37-E
Lea Co., New Mexico
API# 30-025-29248

Yates	3193'
San Andres	4957'
Glorieta	6145'
Tubb	7753'
Abo	8366'
Wolfcamp	10,114'
Upper Penn.	10,470'
Lower Strawn	11,298'
Lower Strawn "B	11,522'
Atoka	11,647'

Yates Petroleum Corporation
Shipp ZI # 2
Unit D, Sec. 27, T-16-S R-37-E
Lea Co., New Mexico
API# 30-025-28994

Yates	3256'
San Andres	4965'
Glorieta	6163'
Tubb	7784'
Abo	8300'
Wolfcamp	10,110'
Upper Penn.	10,466'
Lower Strawn	11,370'
Lower Strawn "B	11,633'
Atoka	11,781'



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02144	PRO	LE		3	3	28	16S	37E		662602	3640153*	1116	34	1082
L 02144 APPRO	PRO	XX		3	3	28	16S	37E		662602	3640153*			
L 02196	PRO	LE		2	2	22	16S	37E		665375	3643014*	100		
L 02196 APPRO	PRO	LE		2	2	22	16S	37E		665375	3643014*			
L 05266	DOM	LE		4	4	27	16S	37E		665420	3640196*	100	85	15
L 07028 (E)	STK	LE		2	3	3	21	16S	37E	662676	3641856*	120	46	74
L 07287	PRO	LE		4	4	27	16S	37E		664712	3640083*	105	60	45
L 08431	PRO	LE		2	2	2	21	16S	37E	663867	3643089*	128	50	78
L 09971	PRO	LE		1	2	4	22	16S	37E	665288	3642307*	150	65	85
L 10066	PRO	LE		2	4	2	21	16S	37E	663872	3642685*	150	55	95
L 11196	DOM	LE		2	4	4	27	16S	37E	665519	3640295*	200		
L 11392	STK	LE		2	4	22	16S	37E		665389	3642208*	135	79	56
Average Depth to Water:												59 feet		
Minimum Depth:												34 feet		
Maximum Depth:												85 feet		

Record Count: 12

PLSS Search:

Section(s): 21, 22, 27, 28 Township: 16S Range: 37E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

EXHIBIT "D"

**Proposed procedures to convert to injection
Actual and proposed well-bore schematics**

Carter 2
Lea County, New Mexico
Re-enter and Convert to Injection Procedure

Date: July 17, 2009

Location: 1330' FNL & 1980' FEL Sec. 28-T16S-R37E

Casing: 5 1/2" 17 & 20# N-80 & P-110 4,250-11,745' ID – 4.778", Drift – 4.653", Burst – 7,740 psi

PBTD/TD: 0'/11,750'

Current Perfs: Strawn 11,371-93' (below CIBP)

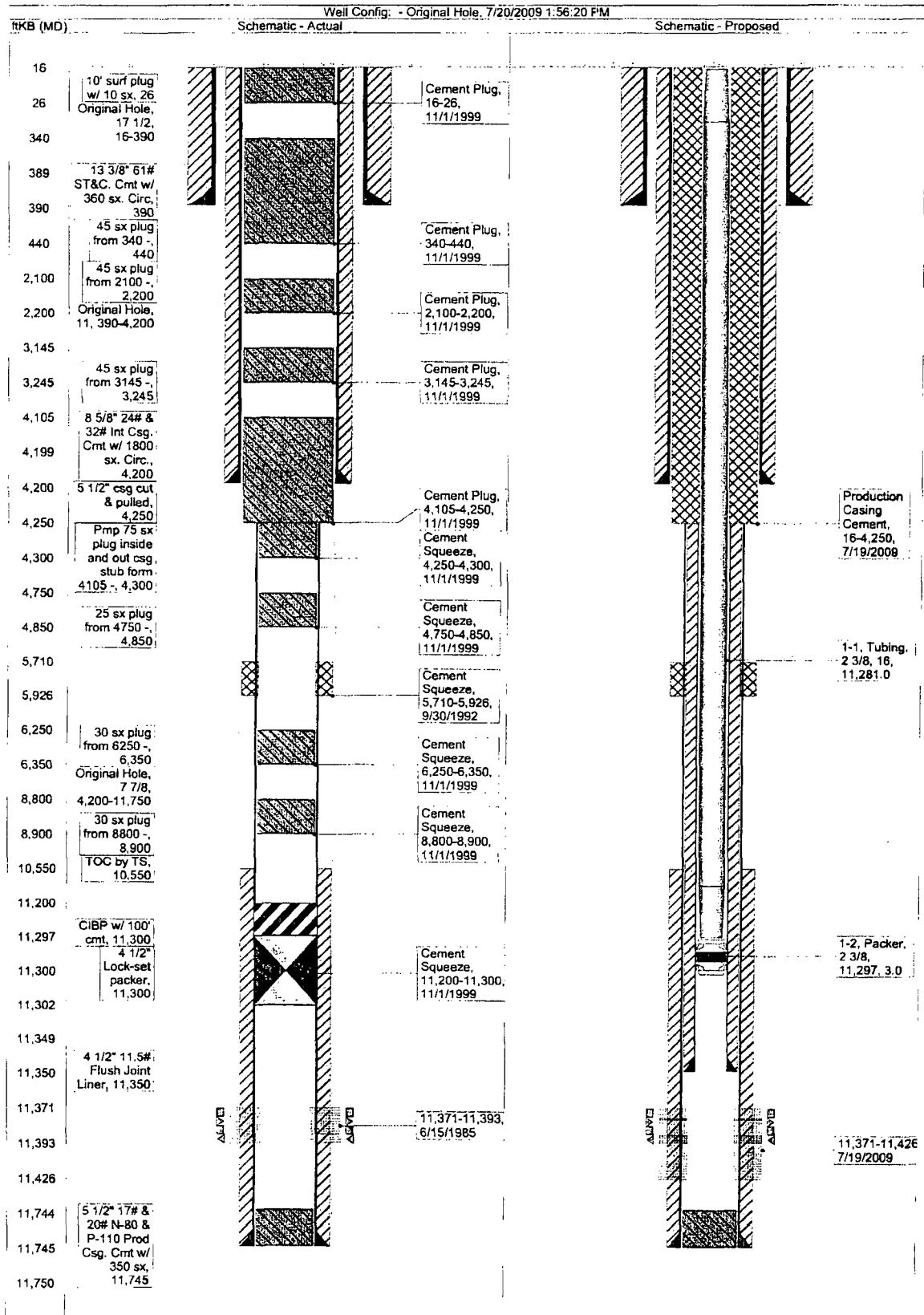
Recommended Procedure:

1. Dig out casing and secure casing stub. MIRU PU. NU BOP. Unload, rack and tally 2 7/8" L-80 work string.
2. RIH w/ 7 5/8" bit and drill collars on tbg. Drill out cement plugs to top of 5 1/2" casing stub @ 4,250'. POH w/ bit.
3. RIH 4 5/8" bit and drill collars on tbg. Drill out cement plugs to CIBP @ 11,300'. Drill out CIBP and continue to clean out to original PBTD of +/- 11,700'. POH w/ bit laying down 2 7/8" work string.
4. Rig up wireline company. Set CIBP at 11,350'.
5. RIH w/ 4 1/2" 11.5# flush joint liner to new PBTD of 11,350'. Cement liner in place bringing cement back to surface.
6. Pick up 2 3/8" L-80 work string. RIH w/ 3 7/8" bit on tbg. Drill out casing shoe and CIBP @ 11,350. Cleanout to +/-11,700'. POH w/ bit laying down 2 3/8" workstring.
7. Rig up wireline co. Perforate Strawn 11,371-11,426' (55') 2 spf, 120 degree phasing.
8. If Strawn is on a strong vacuum, acidize Strawn down the 4 1/2" casing w/ 5,000 gal 15% NEFE acid dropping rock salt as a diverter. Displace acid to perfs. (If not on a vacuum, run tubing and packer for acid job.)
9. RIH w/ 2 3/8" plastic lined tbg and 4 1/2" Lock-set packer to 11,300'. Load back side with packer fluid. Set packer and pressure test to 500 psi.
10. ND BOP. NU WH. Rig down.

P&A WELLBORE SCHEMATIC

WELL: Carter 2
 FIELD: LOVINGTON NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 28, 16S-37E, 1330 FNL & 1980 FEL
 ELEVATION: 3,788.00 GR 3,804.00 RKB

API: 30-025-29248
 SPUD DATE: 5/12/1985



Shipp ZI 2
Lea County, New Mexico
Re-enter and Convert to Injection Procedure

Date: July 20, 2009

Location: 660' FNL & 1100' FEL Sec. 27-T16S-R37E

Casing: 5 1/2" 17# 0-11,862' ID – 4.892", Drift – 4.767", Burst – unknown

PBTD/TD: 0'/11,862'

Current Perfs: Strawn 11,461-75' (below CIBP)

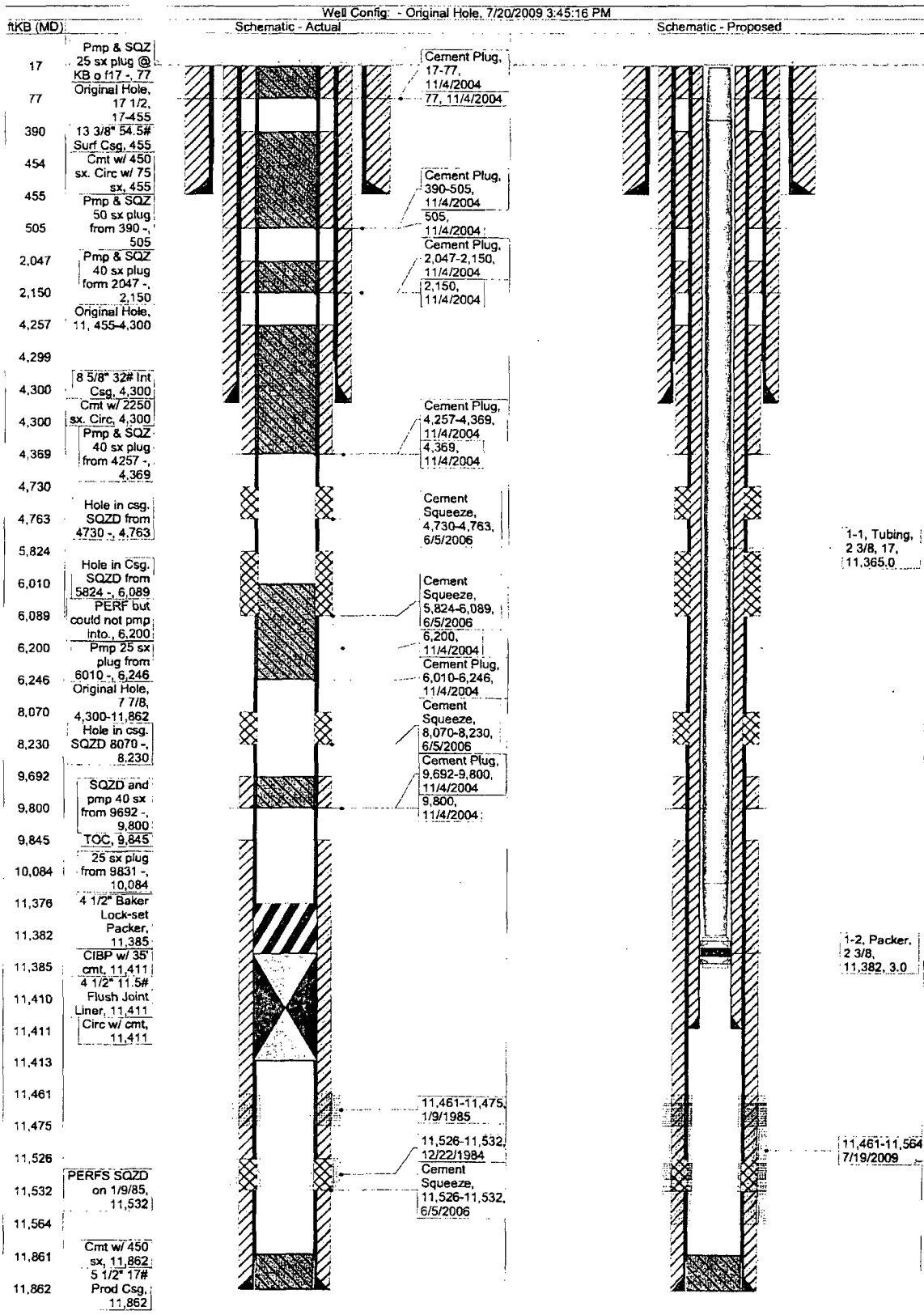
Recommended Procedure:

1. Dig out casing and secure casing stub. MIRU PU. NU BOP. Unload, rack and tally 2 7/8" L-80 work string.
2. RIH w/ 4 3/4" bit and drill collars on tbg. Drill out cement plugs to CIBP @ 11,411'. POH w/ bit laying down 2 7/8" work string.
3. RIH w/ 4 1/2" 11.5# flush joint liner to new PBTD of 11,411'. Cement liner in place bringing cement back to surface.
4. Pick up 2 3/8" L-80 work string. RIH w/ 3 7/8" bit on tbg. Drill out casing shoe and CIBP @ 11,411'. Cleanout to +/-11,800'. POH w/ bit laying down 2 3/8" workstring.
5. Rig up wireline co. Perforate Strawn 11,461-75' (14'), 11,526-32' (6'), 11,542-52' (10'), 11,564-70' (6') (36' total) 2 spf, 120 degree phasing.
6. If Strawn is on a strong vacuum, acidize Strawn down the 4 1/2" casing w/ 5,000 gal 15% NEFE acid dropping rock salt as a diverter. Displace acid to perfs. (If not on a vacuum, run tubing and packer for acid job.)
7. RIH w/ 2 3/8" plastic lined tbg and 4 1/2" Baker Lock-set packer to 11,385'. Load back side with packer fluid. Set packer and pressure test to 500 psi.
8. ND BOP. NU WH. Rig down.

WORKOVER PROPOSAL WBD

WELL: Shipp ZI 2
 FIELD: LOVINGTON NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 27, 16S-37E, 660 FNL & 1100 FWL
 ELEVATION: 3,786.50 GR 3,803.50 RKB

API: 30-025-28994
 SPUD DATE: 11/17/1984



Well Construction Inform:

temp sur
temp sur
Circulate
TS

Tabulation of wells in area of review

ITEM VII (5)

**Chemical Analysis of Wolcamp and Strawn
Formation Waters**

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Jeff Finnell
6100 N. Western Avenue, Oklahoma City, OK 73118

LABORATORY NO. 509-237
SAMPLE RECEIVED 5-15-09
RESULTS REPORTED 6-1-09

COMPANY Chesapeake LEASE As listed
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Easley 6-1 (Strawn). 5-14-09
NO. 2 Chipshot #1 (Wolfcamp). 5-14-09
NO. 3 Nellie 21-1 (Strawn). 5-14-09
NO. 4 _____

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0350	1.1170	1.0740	
pH When Sampled				
pH When Received	7.41	6.70	6.60	
Bicarbonate as HCO ₃	573	220	390	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	3,700	19,000	12,200	
Calcium as Ca	1,120	5,920	3,680	
Magnesium as Mg	219	1,021	729	
Sodium and/or Potassium	17,907	65,675	34,887	
Sulfate as SO ₄	1,060	1,320	1,542	
Chloride as Cl	29,118	113,630	61,076	
Iron as Fe	1.5	1.7	2.7	
Barium as Ba	0	0	0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	49,997	187,785	102,303	
Temperature °F.				
Carbon Dioxide, Calculated	38	72	160	
Dissolved Oxygen				
Hydrogen Sulfide	0.0	3.0	0.0	
Resistivity, ohm-cm at 77° F.	0.163	0.060	0.094	
Suspended Oil				
Corrosiveness	Mild	Moderate	Moderate	
Barium Sulfate Scaling Tendency	None	None	None	
CaCO ₃ S.I. @ 77° F. (Stiff-Davis)	0.42	0.53	-0.01	
CaCO ₃ S.I. @ 122° F. (Stiff-Davis)	1.02	1.18	0.55	
Calcium Sulfate Scaling Tendency	None	None	None	

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

CaCO₃ S.I. - A positive fig. signifies a scaling potential proportionate to the magnitude of the number, and a negative fig. signifies no scaling potential.

These three waters, when combined, show no significant incompatibilities regarding scale and/or precipitation beyond what already exists with each water individually. Each water shows a positive calcium carbonate scaling tendency as do the mixtures, particularly at the higher temperatures. No substantial calcium sulfate or barium sulfate potential appears likely with these mixtures.

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

708 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Jeff Finnell
6100 N. Western Avenue, Oklahoma City, OK 73118

LABORATORY NO. 509-237-A
SAMPLE RECEIVED 5-15-09
RESULTS REPORTED 6-1-09

COMPANY Chesapeake LEASE _____
FIELD OR POOL _____
SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 25% Chipshot and 75% Nellie.

NO. 2 50% Chipshot and 50% Nellie

NO. 3 75% Chipshot and 25% Nellie

NO. 4 _____

REMARKS: Analysis performed at 77°F

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0740	1.0830	1.0910	
pH When Sampled				
pH When Received	6.70	6.85	6.96	
Bicarbonate as HCO ₃	305	293	244	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	14,600	16,600	17,600	
Calcium as Ca	4,240	5,040	5,520	
Magnesium as Mg	972	972	923	
Sodium and/or Potassium	43,817	49,370	59,008	
Sulfate as SO ₄	1,401	1,460	1,423	
Chloride as Cl	76,701	86,643	102,267	
Iron as Fe	2.0	2.0	1.7	
Barium as Ba	0	0	0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	127,436	143,778	169,386	
Temperature °F.				
Carbon Dioxide, Calculated	101	76	51	
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohm-cm at 77° F.	0.079	0.072	0.064	
Suspended Oil				
Fluoride as F Corrosiveness	Moderate	Moderate	Moderate	
Barium Sulfate Scaling Tendency	None	None	None	
CaCO ₃ S.I. @ 77° F. (Stiff-Davis)	0.14	0.43	0.67	
Calcium Sulfate Scaling Tendency	None	None	None	
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				
CaCO ₃ S.I. - A positive fig. signifies a scaling potential proportionate to the magnitude of the number, and a negative fig. signifies no scaling potential.				
Please feel free to contact us for any details or discussions concerning these results.				

Form No. 3

By _____

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Jeff Finnell LABORATORY NO. 509-237-B
6100 N. Western Avenue, Oklahoma City, OK 73118 SAMPLE RECEIVED 5-15-09
RESULTS REPORTED 6-1-09

COMPANY Chesapeake LEASE As listed

FIELD OR POOL _____

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lca STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 25% Chipshot / 75% Easy.

NO. 2 50% Chipshot / 50% Easy.

NO. 3 75% Chipshot / 25% Easy.

NO. 4 _____

REMARKS: Analysis performed at 77°F

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0520	1.0690	1.0820	
pH When Sampled				
pH When Received	7.39	7.28	7.19	
Bicarbonate as HCO ₃	427	390	354	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	8,200	11,200	14,600	
Calcium as Ca	2,400	3,200	4,080	
Magnesium as Mg	535	778	1,069	
Sodium and/or Potassium	25,019	34,227	47,461	
Sulfate as SO ₄	1,112	1,127	1,275	
Chloride as Cl	43,322	59,656	82,382	
Iron as Fe	1.70	1.70	1.50	
Barium as Ba	0	0	0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	72,815	99,378	136,621	
Temperature °F.				
Carbon Dioxide, Calculated	35	43	46	
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohm-cm at 77° F.	0.119	0.094	0.075	
Suspended Solids				
Free Chlorine Residual Corrosiveness	Mild	Moderate	Moderate	
Barium Sulfate Scaling Tendency	None	None	None	
CaCO ₃ S.I. @ 77° F. (Stiff-Davis)	0.55	0.58	0.73	
Calcium Sulfate Scaling Tendency	None	None	None	
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				
CaCO ₃ S.I. - A positive fig. signifies a scaling potential proportionate to the magnitude of the number, and a negative fig. signifies no scaling potential.				
Please feel free to contact us for any details or discussions concerning these results.				

Form No. 3

By _____

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

RESULT OF WATER ANALYSES

TO: Mr. Jeff Fennell LABORATORY NO. 509-237-C
6100 N. Western Avenue, Oklahoma City, OK 73118 SAMPLE RECEIVED 5-15-09
RESULTS REPORTED 6-1-09

COMPANY Chesapeake LEASE _____

FIELD OR POOL _____

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 25% Chipshot / 75% Nellie.

NO. 2 50% Chipshot / 50% Nellie.

NO. 3 75% Chipshot / 25% Nellie.

NO. 4 _____

REMARKS: Analysis performed at 140°F

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0742	1.0834	1.0915	
pH When Sampled				
pH When Received	6.95	7.03	7.22	
Bicarbonate as HCO ₃	305	378	305	
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	14.000	14.600	18.400	
Calcium as Ca	4.160	4.800	5.280	
Magnesium as Mg	875	632	1,264	
Sodium and/or Potassium	47,743	56,743	59,559	
Sulfate as SO ₄	1,327	1,401	1,371	
Chloride as Cl	82,382	96,586	103,688	
Iron as Fe	1.7	2.0	1.7	
Barium as Ba	0	0	0	
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	136,792	160,539	171,467	
Temperature °F.				
Carbon Dioxide, Calculated	64	61	34	
Dissolved Oxygen				
Hydrogen Sulfide	0.0	0.0	0.0	
Resistivity, ohm-cm at 77° F.	0.076	0.066	0.064	
Suspended Oil				
Field Corrosion Corrosiveness	Moderate	Moderate	Mild	
Barium Sulfate Scaling Tendency	None	None	None	
CaCO ₃ S.I. @ 140° F. (Stiff-Davis)	1.03	1.41	1.64	
Calcium Sulfate Scaling Tendency	None	None	None	
Results Reported As Milligrams Per Liter				
Additional Determinations And Remarks				
CaCO ₃ S.I. - A positive fig. signifies a scaling potential proportionate to the magnitude of the number, and a negative fig. signifies no scaling potential.				
Please feel free to contact us for any details or discussions concerning these results.				

Form No. J

By _____

708 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

TO: Mr. Jeff Finnell
6100 N. Western Avenue, Oklahoma City, OK 73118

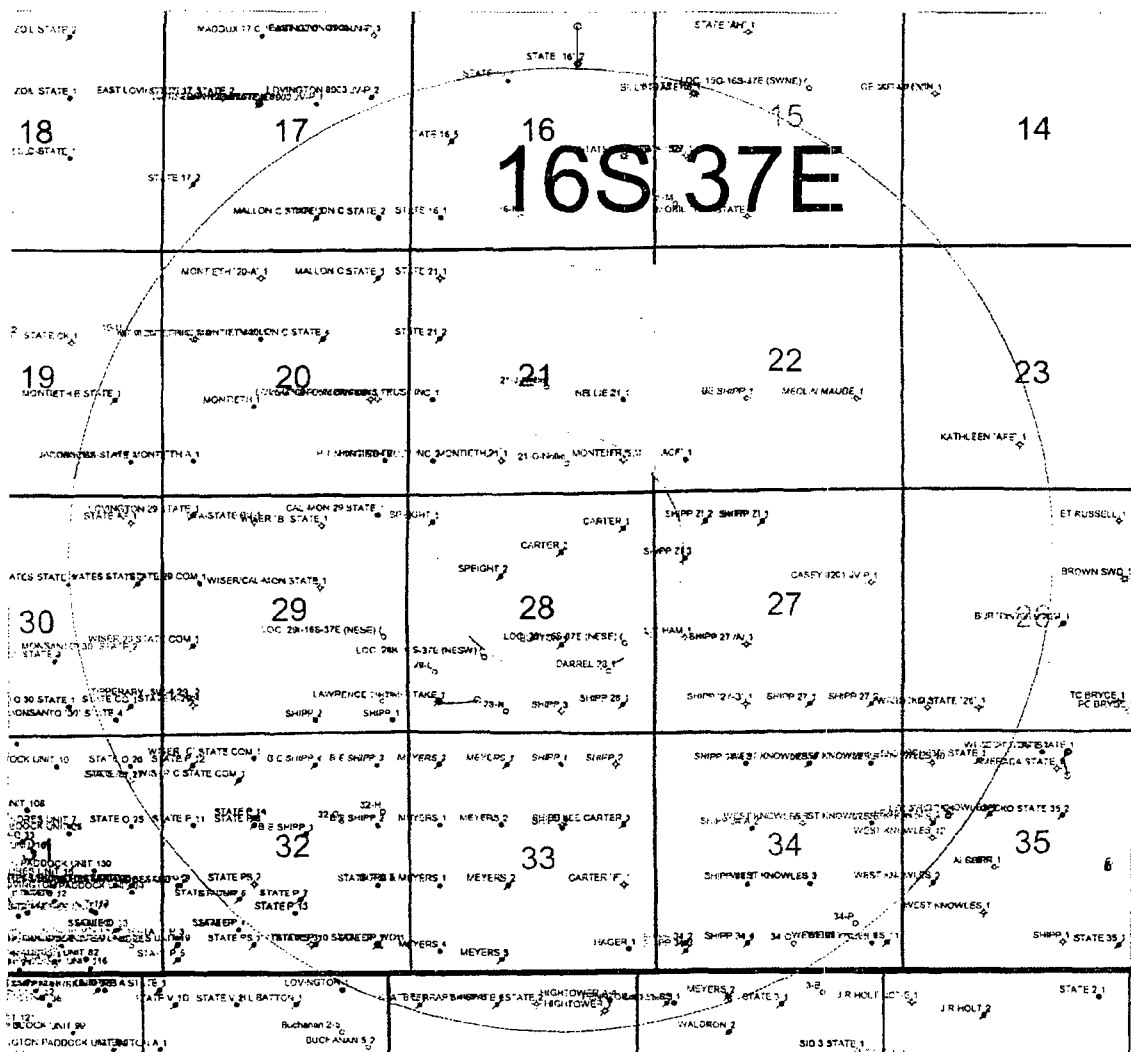
LABORATORY NO. 509-237-D
SAMPLE RECEIVED 5-15-09
RESULTS REPORTED 6-1-09

ITEM V

½ Mile & 2 Mile Radius Maps

**Well-bore schematics within ½ mile radius of each
proposed well**

Proposed Carter-Shipp Strawn Unit C-108 Form Application for Authorization to Inject Carter No. 2



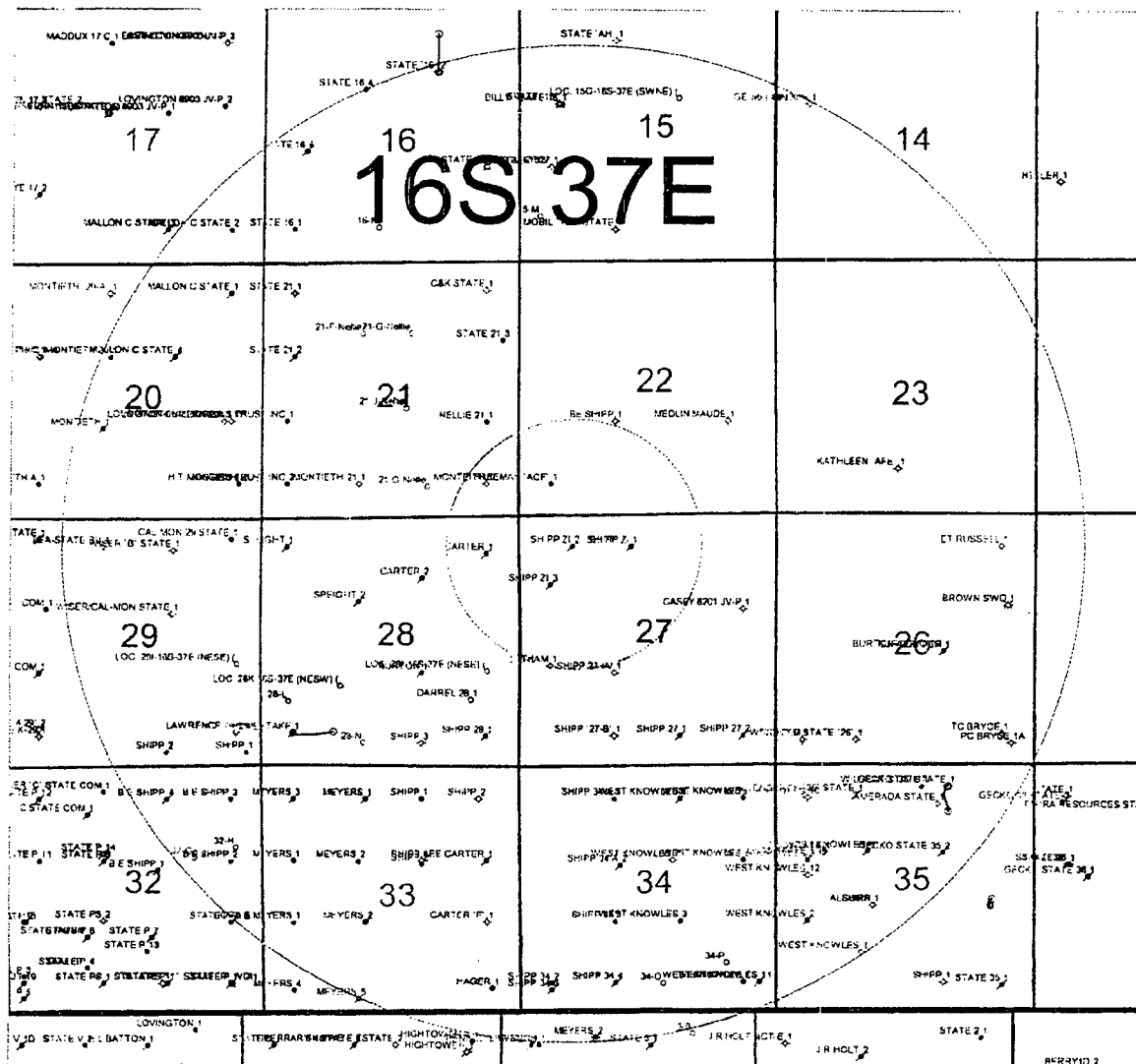
Legend

--- 2 Mile Radius; Identifying each well by Lease Name and Well number

.5 Mile Radius; Identifying the "Area of Review"



Proposed Carter-Shipp Strawn Unit C-108 Form Application for Authorization to Inject Shipp ZI No. 2



Legend

--- 2 Mile Radius; Identifying each well by Lease Name and Well number

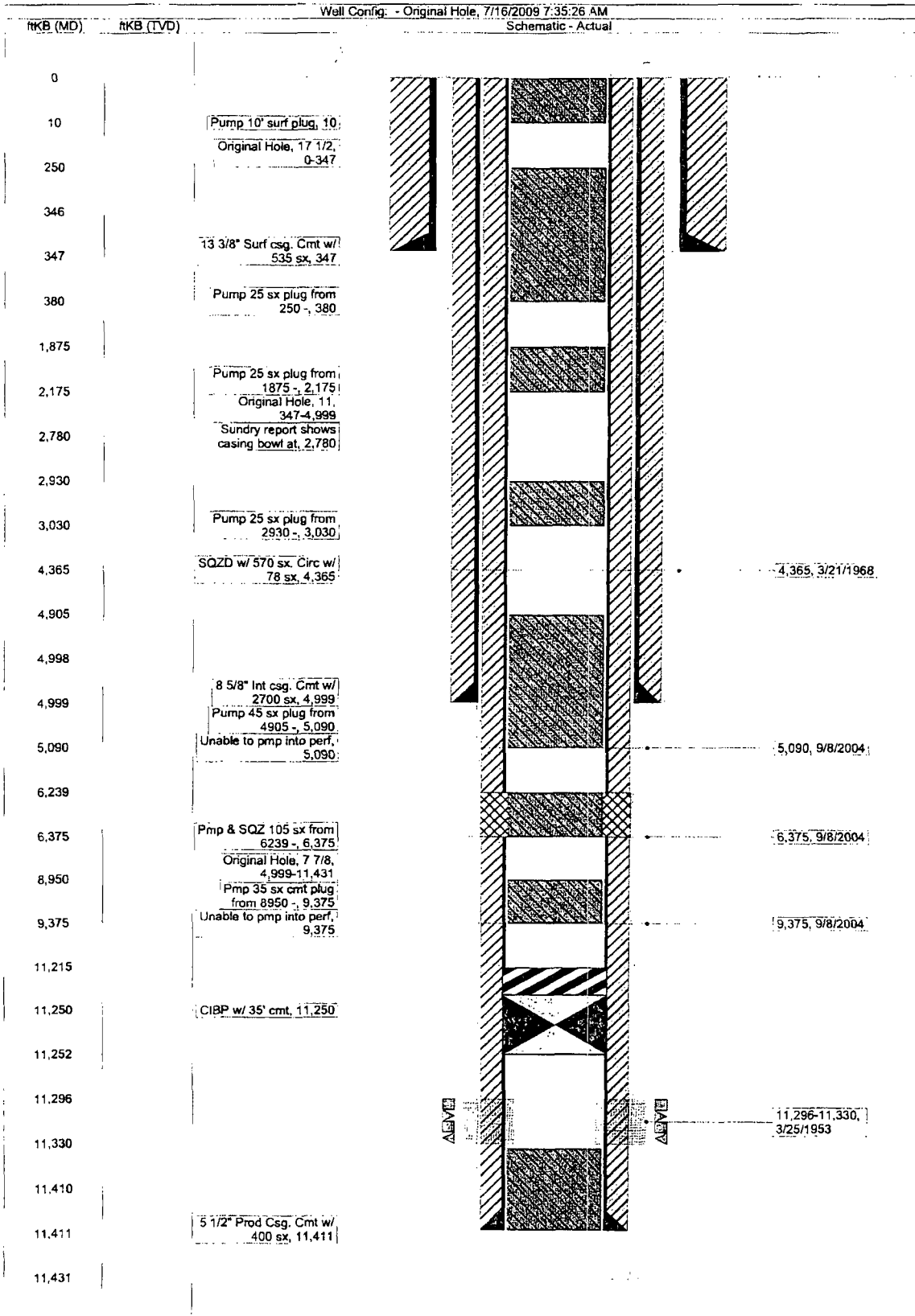
.5 Mile Radius; Identifying the "Area of Review"



P&A WELLBORE SCHEMATIC

WELL: H T Montieth B 1
 FIELD: LOVINGTON PENN NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 19, 16S-37E, 660 FNL & 1980 FWL
 ELEVATION: 3,848.00 GR 3,848.00 RKB

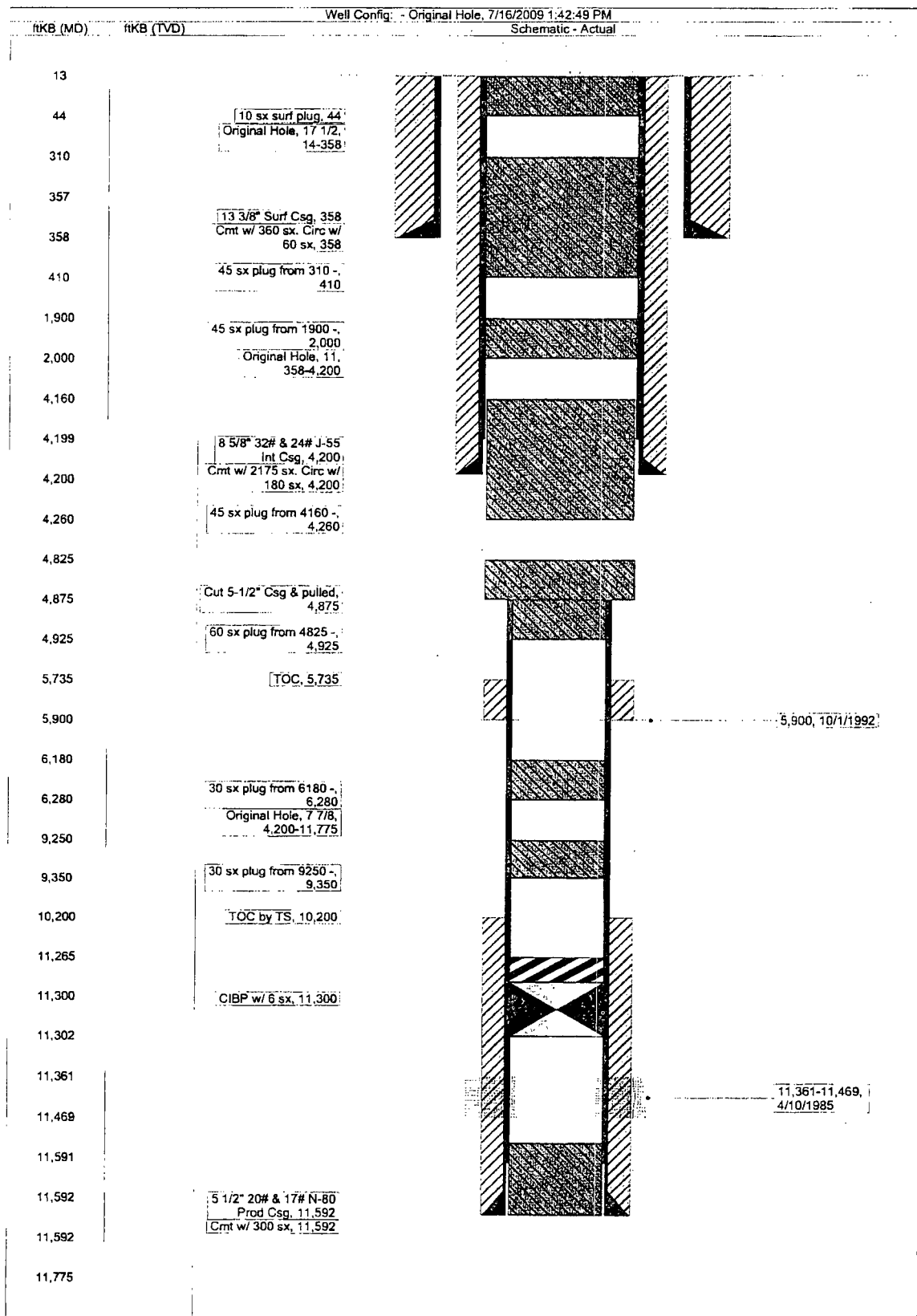
API: 3002505334
 SPUD DATE: 11/3/1952



P&A WELLBORE SCHEMATIC

WELL: Carter 1A
 FIELD: LOVINGTON NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 28, 16S-37E, 810 FNL & 660 FEL
 ELEVATION: 3,788.50 GR 3,802.00 RKB

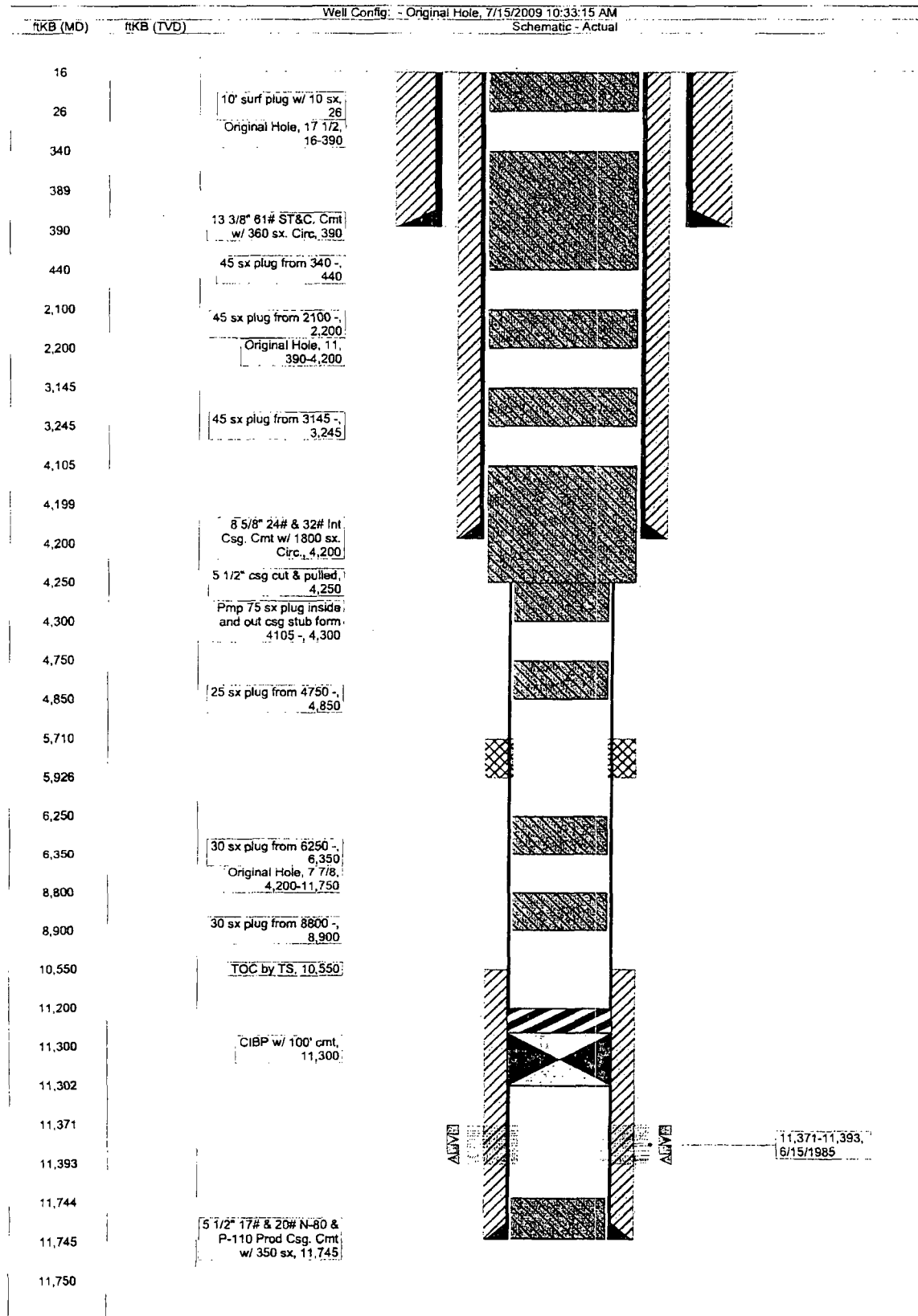
API: 3002570075
 SPUD DATE: 2/28/1985



P&A WELLBORE SCHEMATIC

WELL: Carter 2
 FIELD: LOVINGTON NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 28, 16S-37E, 1330 FNL & 1980 FEL
 ELEVATION: 3,788.00 GR 3,804.00 RKB

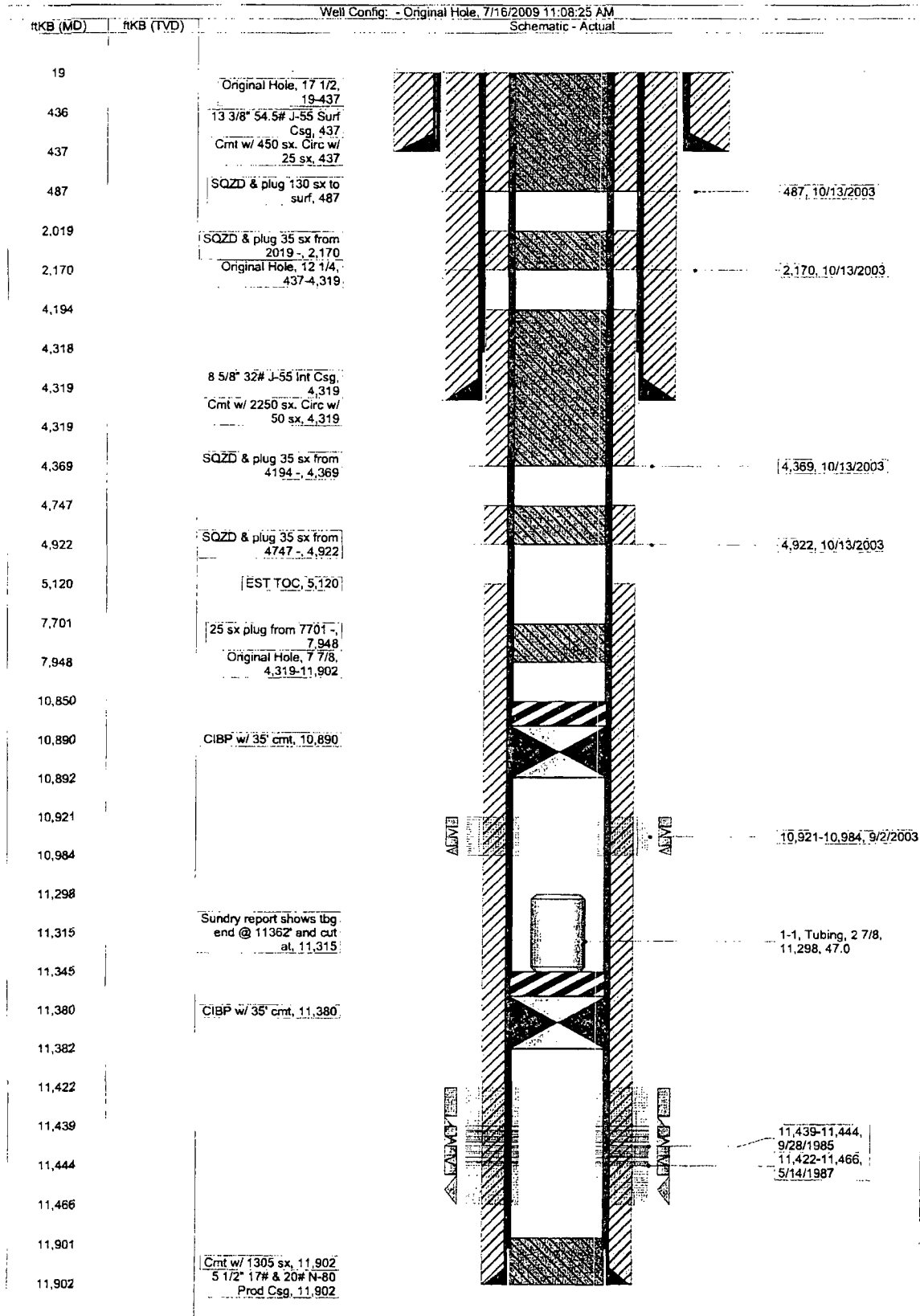
API: 30-025-29248
 SPUD DATE: 5/12/1985



P&A WELLBORE SCHEMATIC

WELL: Shipp ZI 3
 FIELD: LOVINGTON PENN NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 27, 16S-37E, 1470 FNL & 660 FWL
 ELEVATION: 3,786.70 GR 3,806.00 RKB

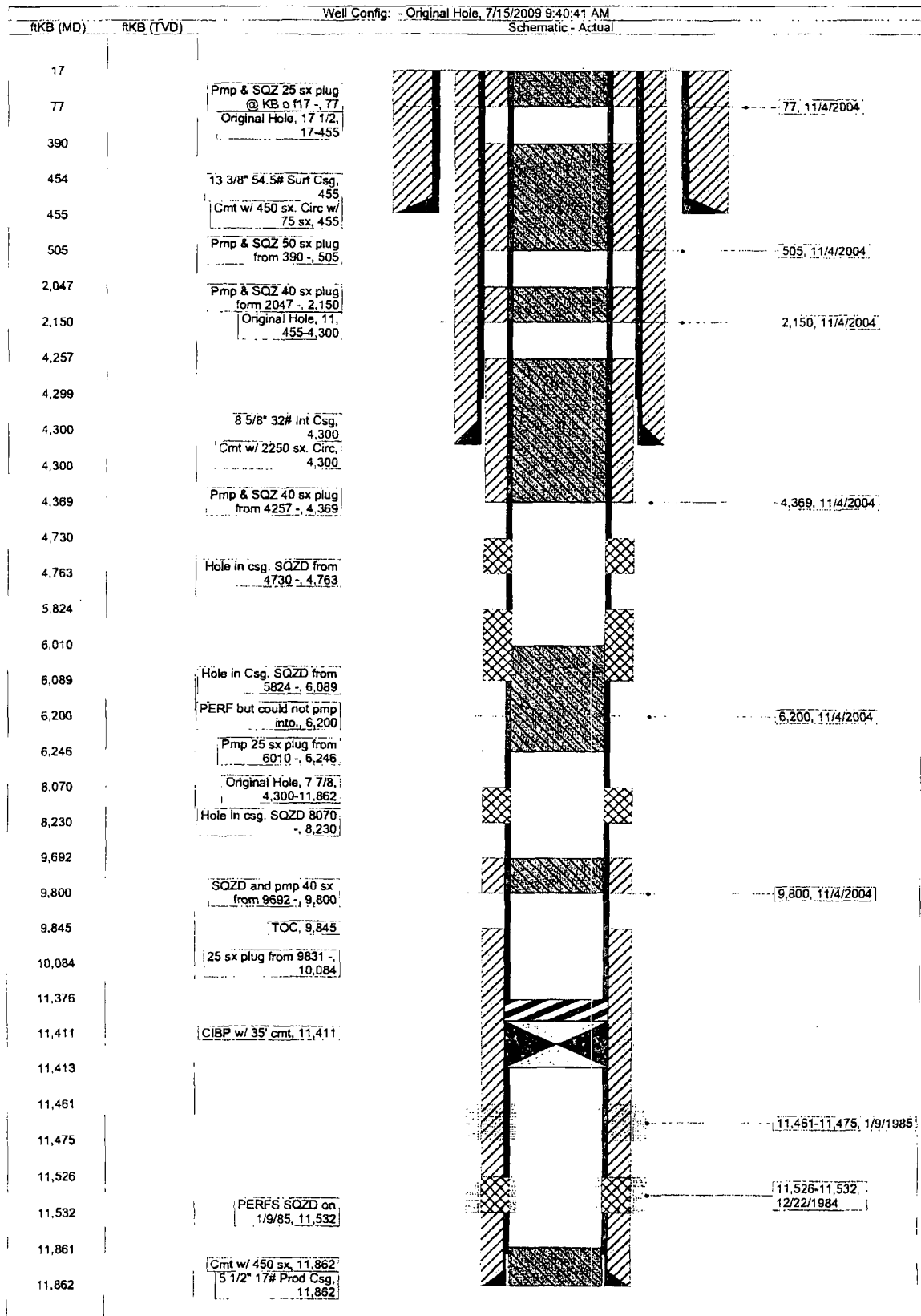
API: 3002529335
 SPUD DATE: 8/27/1985



P&A WELLBORE SCHEMATIC

WELL: Shipp ZI 2
 FIELD: LOVINGTON NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 27, 16S-37E, 660 FNL & 1100 FWL
 ELEVATION: 3,786.50 GR 3,803.50 RKB

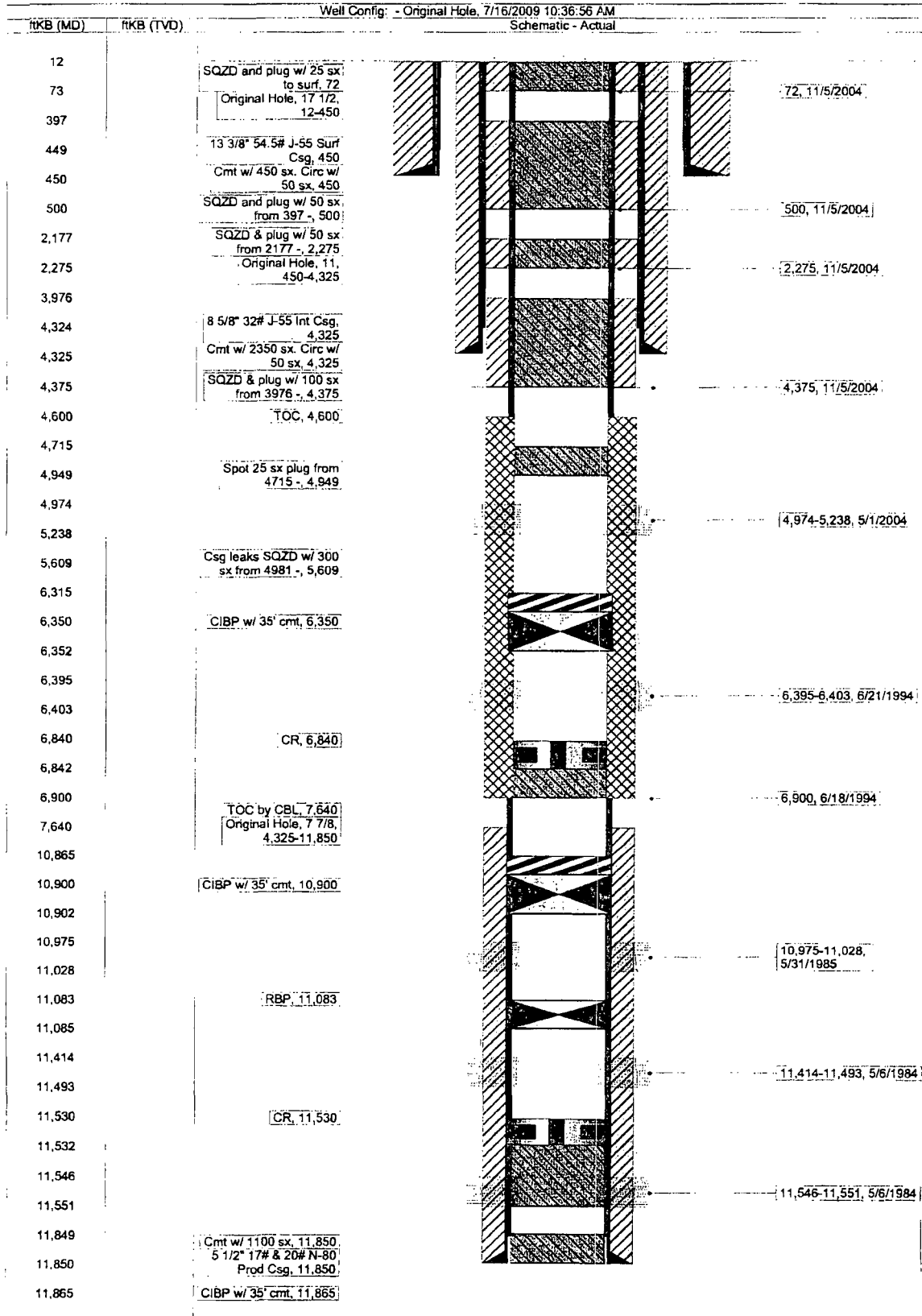
API: 30-025-28994
 SPUD DATE: 11/17/1984



P&A WELLBORE SCHEMATIC

WELL: Shipp Z1 1
 FIELD: LOVINGTON; PADDOCK
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 27, 16S-37E, 660 FNL & 2310 FWL
 ELEVATION: 3,783.60 GR 3,796.00 RKB

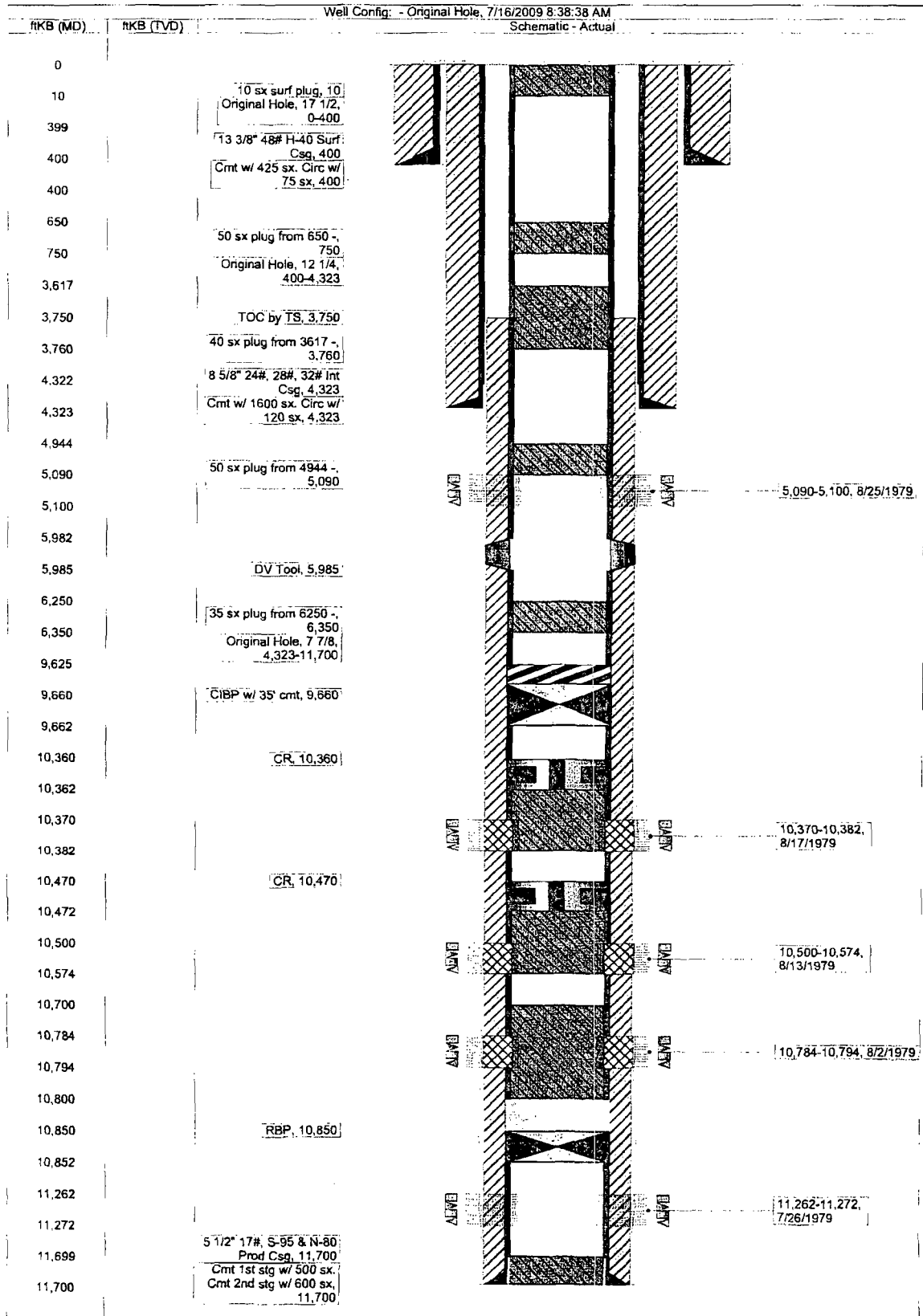
API: 3002528657
 SPUD DATE: 4/4/1984



P&A WELLBORE SCHEMATIC

WELL: **BURTON I**
 FIELD: UND CASEY STRAWN
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 28, 16S-37E, 1980 FSL & 1980 FEL
 ELEVATION: 3,786.30 GR 3,786.30 RKB

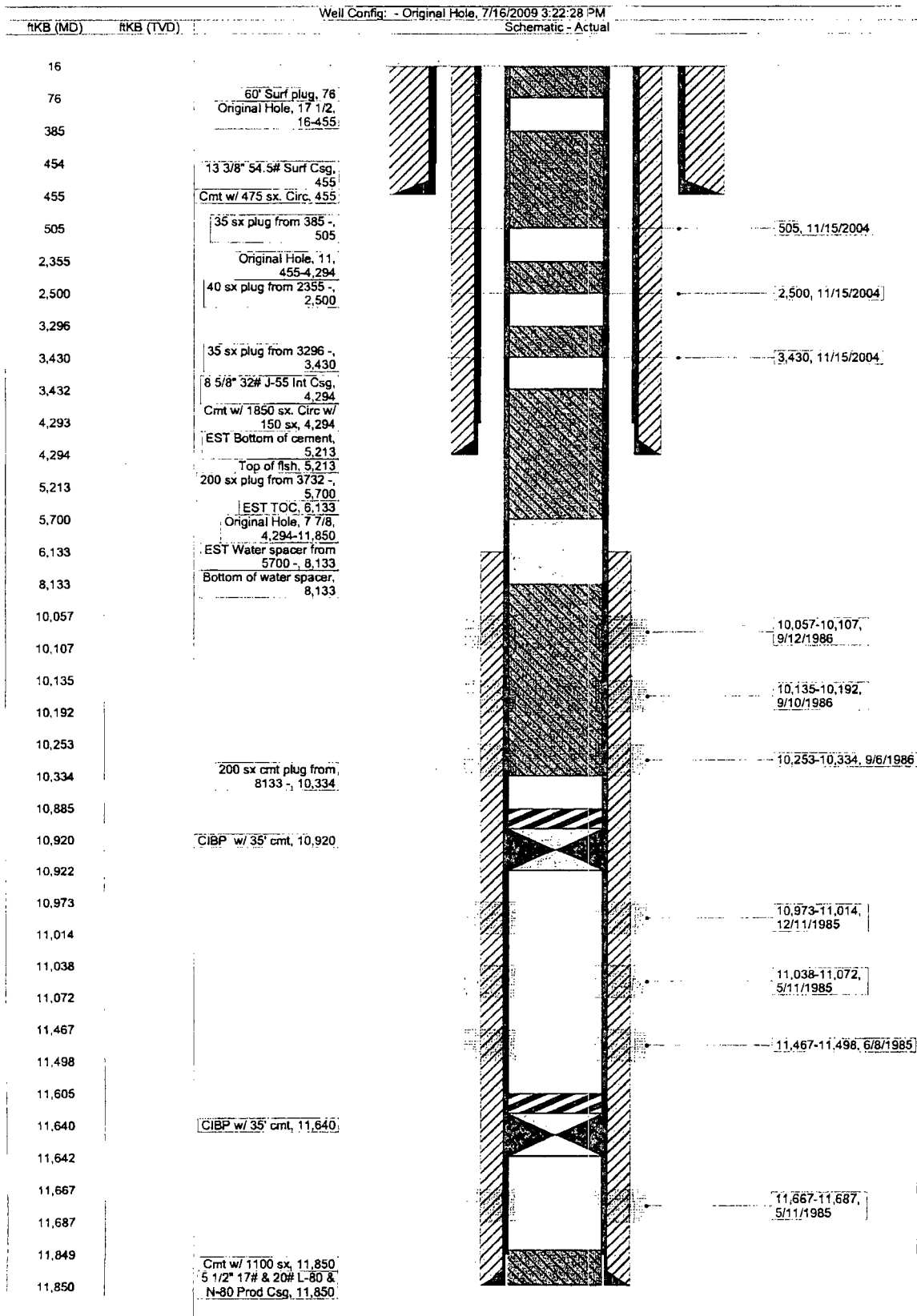
API: 3002570075
 SPUD DATE: 2/28/1985



P&A WELLBORE SCHEMATIC

WELL: Freeman ACF 1
 FIELD: LOVINGTON PENN NE
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 22, 16S-37E, 660 FSL & 660 FWL
 ELEVATION: 3,787.50 GR 3,803.40 RKB

API: 3002529194
 SPUD DATE: 4/2/1985

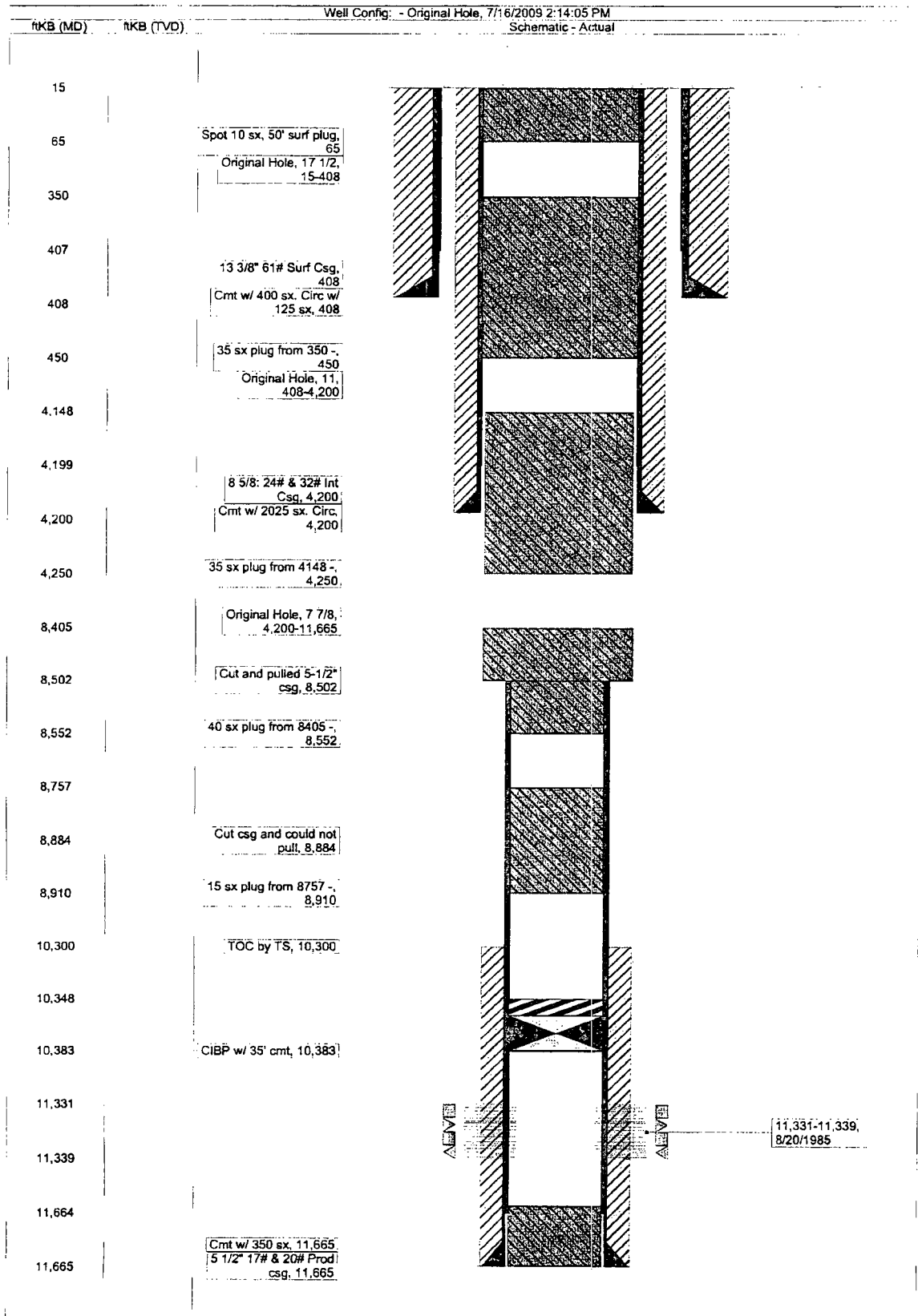


36

P&A WELLBORE SCHEMATIC

WELL: Speight 2
 FIELD: LOVINGTON NE PENN
 COUNTY / STATE: LEA / NEW MEXICO
 LOCATION: SEC 28, 16S-37E, 1830 FNL & 1980 FWL
 ELEVATION: 3,790.00 GR 3,805.00 RKB

API: 3002529304
 SPUD DATE: 6/28/1985



Pro-Kem, Inc. WATER ANALYSIS REPORT

SAMPLE

Oil Co.: Chesapeake
Lease: Nellie
Well No.: Water Well
Location: H, 21-16S 37E
Attention:

Date Sampled:
Date Analyzed: 20-July-2009
Lab ID Number: Jul2009.002-1
Salesperson:
File Name: Jul2009.002

ANALYSIS

1. Ph 7.420
2. Specific Gravity 60/60 F. 1.004
3. CaCO3 Saturation Index @ 80F 0.559 Mild
@ 140F 1.159 Moderate

Dissolved Gasses

4. Hydrogen Sulfide
5. Carbon Dioxide
6. Dissolved Oxygen

Not Present
Not Determined
Not Determined

Cations

7. Calcium (Ca++)
8. Magnesium (Mg++)
9. Sodium (Na+) (Calculated)
10. Barium (Ba++)

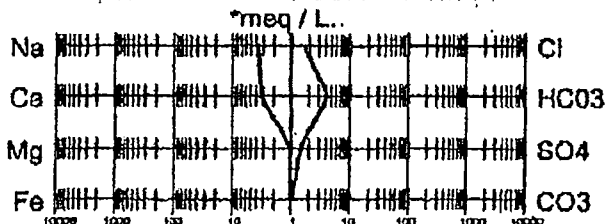
63	/ 20.1 =	3.13
5	/ 12.2 =	0.41
80	/ 23.0 =	3.48
Below 10		

Anions

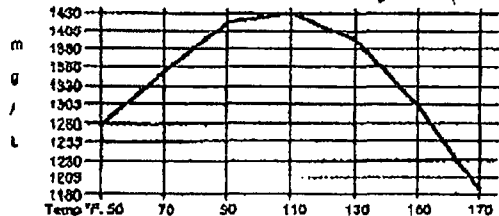
11. Hydroxyl (OH-)
12. Carbonate (CO3=)
13. Bicarbonate (HCO3-)
14. Sulfate (SO4=)
15. Chloride (Cl-)
16. Total Dissolved Solids
17. Total Iron (Fe)
18. Manganese (Mn++)
19. Total Hardness as CaCO3
20. Resistivity @ 75 F. (Calculated)

0	/ 17.0 =	0.00
0	/ 30.0 =	0.00
245	/ 61.1 =	4.01
68	/ 48.8 =	1.39
57	/ 35.5 =	1.61
518		
4.00	/ 18.2 =	0.22
Not Determined		
180		
2.487 Ohm · meters		

LOGARITHMIC WATER PATTERN



Calcium Sulfate Solubility Profile



PROBABLE MINERAL COMPOSITION

COMPOUND	*meq/L	X	EQ. WT. =	mg/L.
Ca(HCO3)2	3.13		81.04	254
CaSO4	0.00		68.07	0
CaCl2	0.00		55.50	0
Mg(HCO3)2	0.41		73.17	30
MgSO4	0.00		60.19	0
MgCl2	0.00		47.62	0
NaHCO3	0.47		84.00	39
NaSO4	1.39		71.03	98
NaCl	1.61		58.46	94

* milliequivalents per Liter

Mason Lemon
Mason Lemon, Analyst

ITEM XIII
Proof of Notice

**List of surface owners, offset oil and gas lessees
or mineral owners**

2MW LP

c/o KLM Oil Properties, LLC
1305 Terra Court
Midland, TX 79705

A. J. Vogel

501 Midland Tower
Midland, TX 79701

Ada Louise Tucker

Linda L. Brumley, AIF

651 152nd Avenue NE
Bellevue, WA 98007

Aetna Bess Eaves Berry

P.O. Box 1551
Lovington, NM 88260

Albert David White, Jr.

202 Sweetwater Cove Blvd.
North Longwood, FL 32770

Alex H Duncan

Humboldt, IA

*As listed, no address

Alex L. Grew

(no address)

*As listed, no address

ALS Association

15300 Ventura Blvd., Ste. 315
Sherman Oaks, CA 91403

Alton C. White, Jr

Austin, TX

*As listed, no address

Alzheimer Disease Research

15825 Shady Grove Rd., Ste. 140
Rockville, MD 20850-4022

**Alzheimers Association, Treatment
Research Center**

640 Jackson Street
Mail Stop 112038
St Paul, MN 55101

**American Cancer Society, Probate and
Trust Management**

PO Box 720366
Oklahoma City, OK 73132

American Heart Association

1710 Gilbreath Road
Burlingame, CA 94010

Amerind Oil Co., Ltd

415 W. Wall Street, Suite 141
Midland, TX 79701

Amerind Oil Co., Ltd.

415 W. Wall Street, Suite 1411
Midland, TX 79701

Anderson B. White

1302 Waugh Dr. #641
Houston, TX 77019-3908

Anderson Carter II

P.O. Box 250
Las Cruces, NM 88004

Andrew A. Andros

(no address)

*As listed, no address

Andrew E. Nelson

Mason, IA

*As listed, no address

Angela, Militello

14902 Preston Road, Suite 404-823
Dallas, TX 75254

**Ann W. Morris, Executor of the Estate of
James Norman Morris**

2865 MacVicar Ave.
Topeka, KS 66611

Anna Lee Waterkotte

6708 Hickory Grove North
Quincy, IL 62301

Annis Roberts

2212 Gound
Nacodoches, TX 75961

**Annis Roberts, Trustee of the Vicki
Jeanne Saari Special Needs Trust**

1230 S. 500 West, Apt. #11S
Bountiful, UT 84010

Arthritis Foundation

Central Illinois Chapter
2621 N. Knoxville
Peoria, IL 61604-3623

Austin Living Trust

5904 E. Bannister Rd.
Kansas City, MO 64111

Aviva

Ron Thompson
501 S. Cherry St.
Denver, CO 80246

B. A. Christmas, Jr.

Chico Route
Raton, NM 87740

Baloney Feathers, LTD

P.O. Box 1586
Lubbock, TX 79403

**Bank of America Trustee under
Agreement dtd 12-8-66 for the Grisso
Family Trust**

P.O. Box 830308
Dallas, TX 75282

**Baren Healey, Trustee for the Baren
Healey 1988 Trust under agreement dtd 4-
25-88**

P.O. Box 888
Davis, OK 73030

Barney E. and Graciela Leonard

4022 E. Whittier St.
Tucson, AZ 85711

Baytech, Inc.

P.O. Box 10158
Midland, TX 79702-7158

Bennie Medlin and Charlotte D. Lynch

P. O. Box 574
Lovington, NM 88260

Betty Harmon

4 Martin Court
Edwardsville, IL 62025-5554

Beulah Dodd

506 2nd Street
N. Humboldt, IA 50548

**Beverly T. Carter, Trustee Of Carter
Family Minerals**

P.O. Box 328
Ft. Sumner, NM 88119

Bill J. Markham and Rosemarie

**Markham, Co-Trustees of the Bill J.
Markham Estate Trust dated 5-21-86**

P. O. Box 21346
Mesa, AZ 85277-1346

Bill Seltzer Estate

214 W. Texas Ave, Suite 509
Midland, TX 79701

Billie Jean Goff

RR 2, Box 83
Madill, OK 73446

Billy Glenn Spradlin

29 Rim Road
Kilgore, TX 75662

**Billy R. Medlin and Lynn M. Medlin, Co-
Personal Representatives of the Estate of
Buddie M. Medlin**

P.O. Box 50
Maljamar, NM 88264

Black Stone Minerals Co., LP

1001 Fannin, Suite 2020
Houston, TX 77002

**Boatman's 1st National Bank, Trustee of
the Grisso Family**

P O Box 25189
Oklahoma City, OK 73125

Brett C. Barton

2312 Coach Light Drive
Edmond, OK 73013

Brett C. Barton

708 SW 149th Place
Oklahoma City, OK 73170

Brian H. Scarborough

P.O. Box 2474
Midland, TX 79702

C. A. Hansen

1st National Bank Bldg
Mason City, IA

*No zip found for this address

C. R. Hemphill

Cerro Gordo, IA

*As listed, no address

Callaway Production Co., Inc.

415 W. Wall Street, Suite 205
Midland, TX 79701

Callaway Production, Co., Inc.

415 W. Wall Street, Suite 141
Midland, TX 79701

**Carol L. Guyer, Individually and as
Personal Representative of the Estate of
Imogene Worden, Deceased, and Jim
Hunt, Executor of the Estate of Adelle
Hunt**

1103 East Michigan Drive
Hobbs, NM 88240

Carroll Lynn Cocke Oliver

P.O. Box 384
St. Johns, AZ 85936

**Cathie Cone Auvenshine McCown,
Trustee of the Auvenshine Children's
Testamentary Trust, created under the
will of Kathleen Cone, deceased, FBO
the Children of Cathie Cone Auvenshine**

P.O. Box 658
Dripping Springs, TX 78620

Cathie Cone Auvenshine

P.O. Box 507
Dripping Springs, Texas 78620

Charles E. Marsh III

1512 S. Cherbourg Drive
Plano, TX 75075

Charles E. Snipps

104 3rd Street
Mason City, IA

Charles Howard Parks

152 Stoney Brook Dr.
Lone, CA 95640

Charles M. Miller

3412 E. Oregon
Phoenix, AZ 85018

Chester A. Beadle

1004 N. 8th Street
Carlsbad, NM 88220

**Children's Memorial Hospital
Foundation**

759 West Belden Avenue
Chicago, IL 60614

Clara Agnes Sofranko

Lovilia, IA 50150

*As listed, no address

**Clarence Richard Markham and Joyce
Stanley Markham, as Trustees of the
Clarence Richard Markham Family
Trust**

3110 38th St.
Lubbock, TX 79413-2710

Cleroy, Inc.

P.O. Box 3405
Tulsa, OK 74101

Coates Energy Interest, Ltd

P.O. Box 171717
San Antonio, TX 78217

Coates Energy Trust

P.O. Box 171717
San Antonio, TX 78217

ConocoPhillips Company

P.O. Box 2917
Houston, TX 77252-2197

Conquistador Petroleum, LLC

P.O. Box 1684
Midland, TX 79702

Cora I. Lohr Lau

310 1st Street NE
Mason City, IA 50401-3408

Cora M. Werthernbach Estate

c/o Amerett Schmitz
1707 S. Massachusetts Ave
Mason City, IA 50401

**CoreStates Bank, NA and Eileen H.
Hinkson Surviving Co-Trustees UWO J.
H. Ward Hinkson Deceased Residual**

P.O. Box 7618
Philadelphia, PA 19101

CRJ Resources, LLC

P.O. Box 2036
Roswell, NM 88202

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Western Commerce Bank, Trustee of

W.T. Reed Trust

P.O. Box 1627
Lovington, NM 88260

William C. Griffiths

805 Bryn Mawr
Roselle, Il. 60172

William Marshall Ship & Pamela Ann

Dixon Ship, Trustees of the William

Marshall Ship & Pamela Ann Dixon Ship

Revocable Trust

104 W Avenue J
Lovington, NM 88260

**William Marshall Shipp a/k/a Bill M.
Shipp**

1018 W. Ave. J
Lovington, NM 88260

Wilma Lee Rogers

4601 Birchman Ave.
Ft. Worth, TX 76107

Wilma Newman Davenport

734 Jellison Blvd.
Duncanville, TX 75116

**Wm. R. Proctor, Executor of Estate of
Pete Proctor**

82 San Clemente Mission Estates
Odessa, TX 79765

WTG Exploration, Inc.

401 W. Wadley Ave.
Midland, TX 79705

Wynn-Crosby 1998, Ltd.

c/o Petrohawk Energy Corp.
1000 Louisiana, Suite 5600
Houston, TX 77002

Wynn-Crosby 1998, Ltd.

c/o Wynn-Crosby Energy, Inc.
5500 West Plano Parkway
Plano, TX 75093

Xettam Minerals, LP

P.O. Box 176
Abilene, TX 79604