DATE 8-2-04	SUSPENSE	ENGINEER Catanach	LOGGED IN 8-2-04	TYPE WFX	APP NO. pSEM0421553427

ABOVE THIS LINE FOR DIVISION USE ONLY

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OIL CONSERVATION DIVISION

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

906

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.

Jerry W. Sherrell	Jerry W. Sherrell	Production Clerk	7/30/2004
Print or Type Name	Signature	Title	Date

jerrys@mackenergycorp.com
e-mail Address

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: X Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? X Yes _____ No

II. OPERATOR: **Mack Energy Corp.**

ADDRESS: **P.O. Box 960 Artesia, NM 88211-0960**

CONTACT PARTY: **Jerry W. Sherrell** PHONE: **(505)748-1288**

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? X Yes _____ No
If yes, give the Division order number authorizing the project: **R-568 and R-938**

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 re-injected 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: **Mack C. Chase** TITLE: **President**

SIGNATURE: Mack C. Chase DATE: 7-30-2004

E-MAIL ADDRESS: **jerrys@mackenergycorp.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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

Side 2

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.

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.

Side 1

INJECTION WELL DATA SHEET

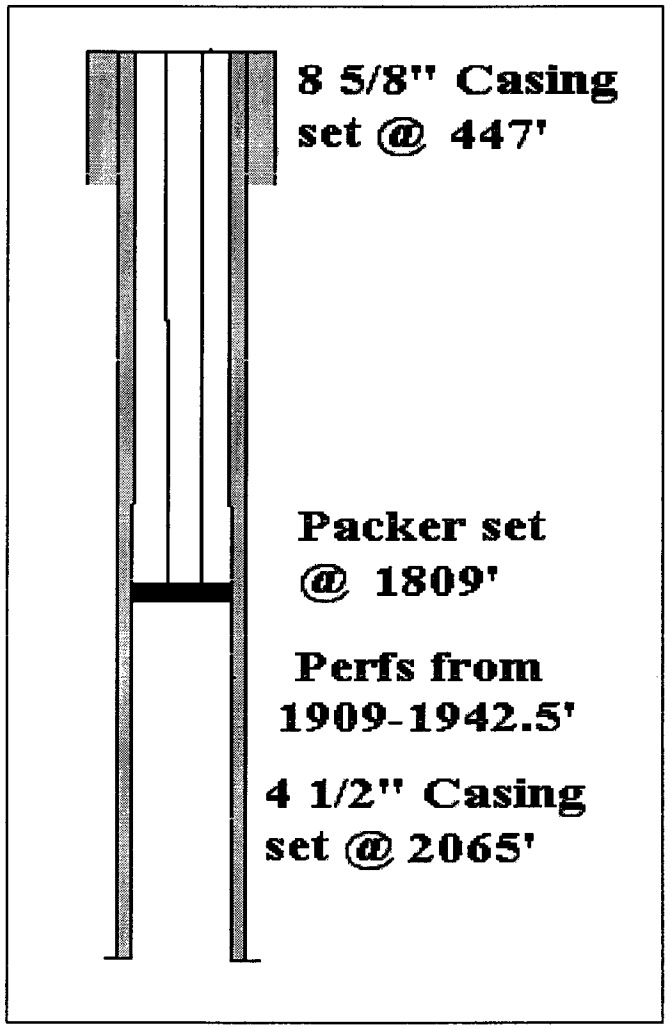
OPERATOR: **Mack Energy Corp.** 30 015-33330

WELL NAME & NUMBER: **Red Lake Sand Unit #51**

WELL LOCATION: **2310 FNL & 2310 FEL** | **G** | **20** | **17S** | **28E**

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: **12 1/4** Casing Size: **8 5/8**

Cemented with: **350** sx. *or* _____ ft^3

Top of Cement: **Surface** Method Determined: **Circulated**

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: **7 7/8** Casing Size: **4 1/2**

Cemented with: **725** sx. *or* _____ ft^3

Top of Cement: **Surface** Method Determined: **Circulated**

Total Depth: **2065'**

Injection Interval

1909 feet to **1942.5 Perforated**

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: **2 3/8** Lining Material: **Plastic Coated**

Type of Packer: **Halliburton Trump Packer**

Packer Setting Depth: **1809'**

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 Well**

2. Name of the Injection Formation: **Grayburg**

3. Name of Field or Pool (if applicable): **Red Lake Shores Grayburg**

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: **Underlying-San Andres, Overlying-Queen**

Side 1

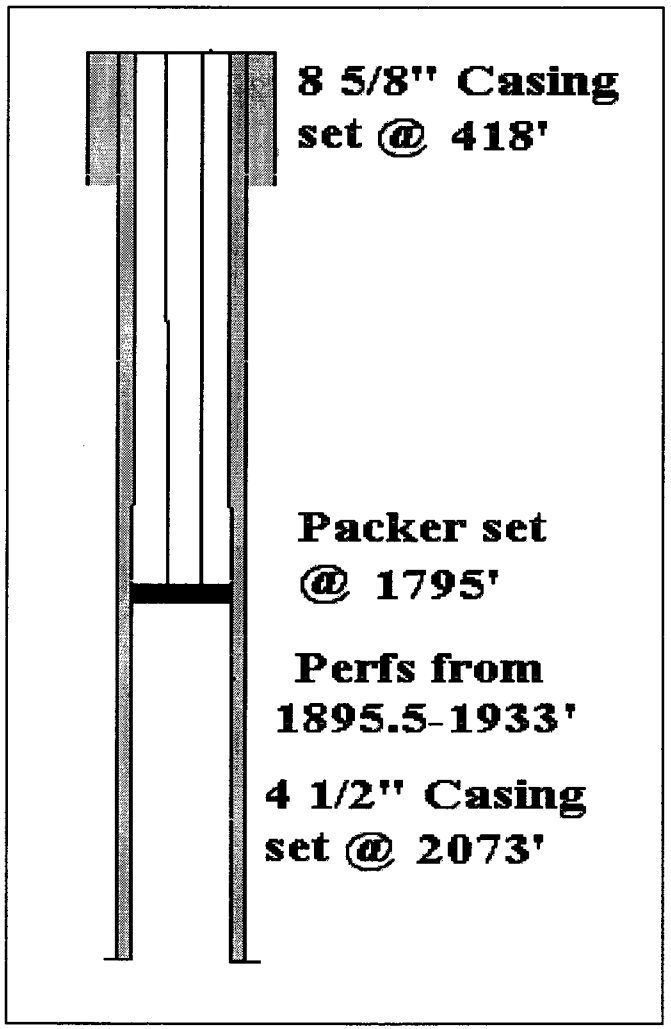
INJECTION WELL DATA SHEET

OPERATOR: **Mack Energy Corp.** 30-015-33298

WELL NAME & NUMBER: **Red Lake Sand Unit #72**

WELL LOCATION:	**1650 FSL & 1650 FWL**	**K**	**20**	**17S**	**28E**
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC



WELL CONSTRUCTION DATA

Surface Casing

Hole Size: **12 1/4** Casing Size: **8 5/8**

Cemented with: **325** sx. *or* _____ ft^3

Top of Cement: **Surface** Method Determined: **Circulated**

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: **7 7/8** Casing Size: **4 1/2**

Cemented with: **750** sx. *or* _____ ft^3

Top of Cement: **Surface** Method Determined: **Circulated**

Total Depth: **2080'**

Injection Interval

1895.5 feet to **1933 Perforated**

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: **2 3/8** Lining Material: **Plastic Coated**

Type of Packer: **Halliburton Trump Packer**

Packer Setting Depth: **1795'**

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 Well**

2. Name of the Injection Formation: **Grayburg**

3. Name of Field or Pool (if applicable): **Red Lake Shores Grayburg**

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: **Underlying-San Andres, Overlying-Queen**

VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
   Respectively, 2000 BWPD and 3000 BWPD
2. The system is closed or open;
   Closed
3. Proposed average and maximum injection pressure;
   100-360#
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
   We will be re-injecting produced water
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;
   N/A

VIII. GEOLOGICAL DATA

1. Lithologic Detail; **Sand**
2. Geological Name; **Grayburg**
3. Thickness; **#51-33', #72-38'**
4. Depth; **#51 11909-1942.5', #72 1895.5-1933'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 1000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data has been filed with the OCD

XI. ANALYSIS OF FRESHWATER WELLS

1. N/A

XII. AFFIRMATIVE STATEMENT

RE: Red Lake Sand Unit #51, 72

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 7-30-2004

Mack C. Chase

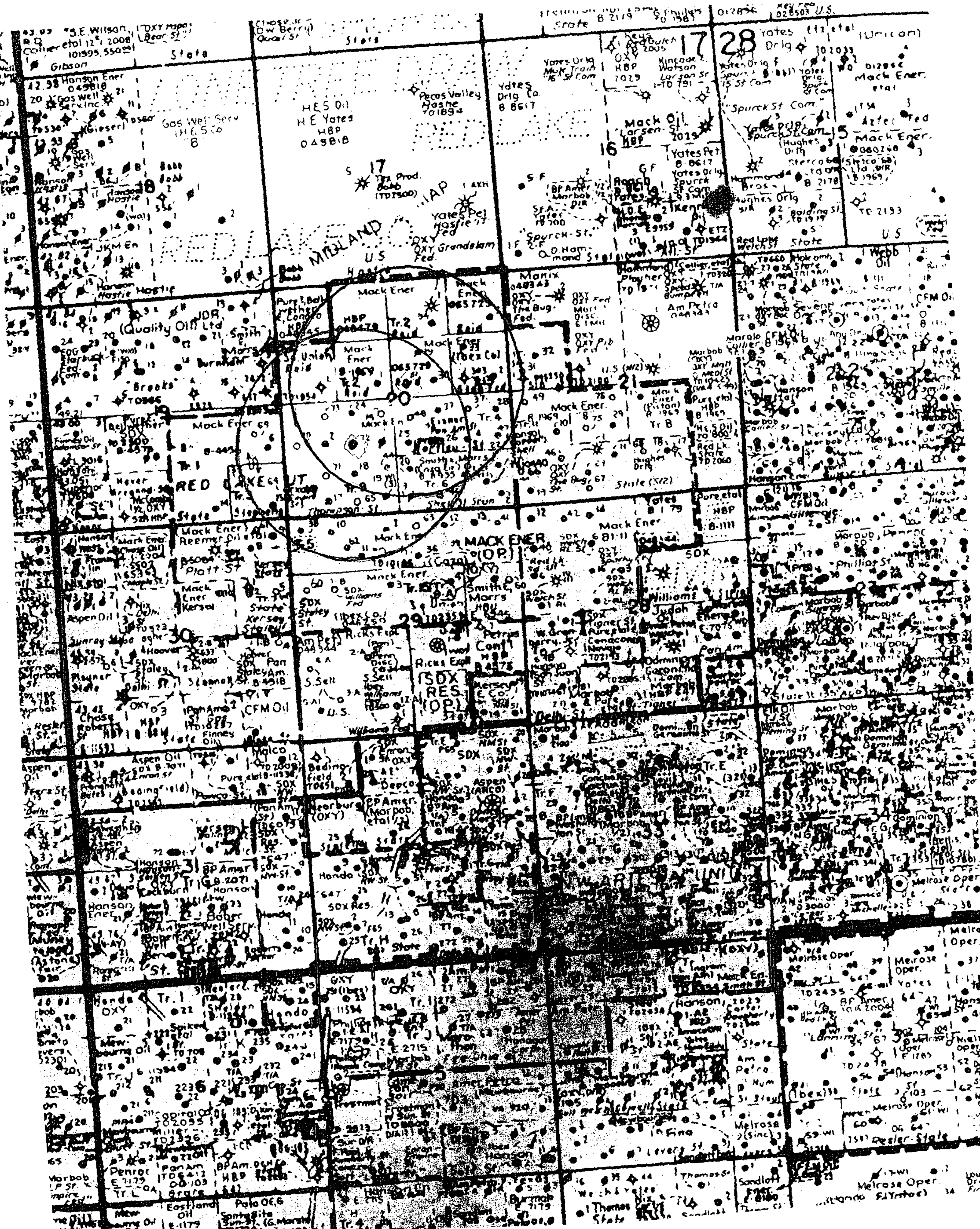
Mack C Chase, President

AREA OF REVIEW WELL DATA

LEASE/API	WELL#	LOCATION	TD (PBTD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
Brooks 30-015-01437	2	2310' FNL 330' FEL 19-17S-28E	3310' (1950')	Oil 2/8/1958	8 (7 7/8)	7 23# 5 1/2 14#	1282' 1973'	50 100	475' (1211')	Plugged
Brooks 30-015-01451	6	1760' FSL 220' FEL 19-17S-28E	545'	Oil 8/7/1941	N/A	5 1/2 17#	506'	10	N/A	Producing
Brooks 30-015-01431	15	2310' FNL 990' FEL 19-17S-28E	608'	Oil 9/12/1950	8	7 17#	565'	50	circ	Plugged
Oxy Grandslam Federal 30-015-31700	1	660' FNL 1650' FEL 20-17S-28E	10250' (10231')	Gas 8/11/2001	17.5 12 1/4 8 3/4	13 3/8 48# 9 5/8 36# 5 1/2 17#	410' 2123' 10250'	350 800 1145	circ circ 4277'	9960-9970' Producing
Red Lake Sand Unit 30-015-01609	10	330' FNL 990' FWL 29-17S-28E	1890'	Oil 1/14/1945	10 8	8 5/8 7	480' 1697'	50 100	7' 84'	Plugged 2004
Red Lake Sand Unit 30-015-01605	11	990' FNL 1650' FWL 29-17S-28E	10185'	Oil 12/11/1954	17 1/2 12 1/2 7 7/8	13 3/8 54.5# 8 5/8 24# 5 1/2	543' 1996' 6000'-7505'	400 910 300	circ circ 6000'	Plugged 2004
Red Lake Sand Unit 30-015-01457	15	330' FSL 330' FEL 19-17S-28E	1840'	Oil 12/2/1944	10 8	8 5/8 7	446' 1704'	50 100	circ 482'	Plugged 2004
Red Lake Sand Unit 30-015-24000	16	660' FSL 660' FWL 20-17S-28E	10,020' (2560')	Oil 12/18/1981	17 1/2 12 1/4 7 7/8	13 3/8 48# 8 5/8 24# 4 1/2 11.6#	510' 2511' 6450-10,020'	550 1450 300	circ circ 8282'	Plugged 2004
Red Lake Sand Unit 30-015-01480	17	330' FSL 990' FWL 20-17S-28E	1863'	Oil 11/24/1944	10 8	8 5/8 32# 7 20#	487' 1676'	50 25	14' 1273'	Injection
Red Lake Sand Unit 30-015-01463	18	990' FSL 1650' FWL 20-17S-28E	1890'	Oil 1/7/1955	7 7/8	5 1/2 14#	1750'	175	417'	Plugged 2004
Red Lake Sand Unit 30-015-01479	19	330' FSL 2310' FWL 20-17S-28E	1882'	Oil 10/2/1944	10 8	8 5/8 28# 7 20#	525' 1742'	50 100	200' 575'	Plugged 2004
Red Lake Sand Unit 30-015-01471	20	990' FSL 2310' FEL 20-17S-28E	1954'	Oil 11/22/1944	10 8	8 5/8 28# 7 20#	420' 1655'	25 50	circ 847'	Plugged 2004
Red Lake Sand Unit 30-015-01464	24	2310' FSL 1650' FWL 20-17S-28E	1947'	Oil 10/29/1956	10 8	8 5/8 28# 5 1/2 14#	544' 1877'	50 50	71' 1518'	Plugged 2004
Red Lake Sand Unit 30-015-01484	25	1650' FSL 2310' FEL 20-17S-28E	1944'	Oil 11/26/1944	10 8	8 5/8 7	435' 1650'	20 25	246' 1247'	Plugged 2004
Red Lake Sand Unit 30-015-01461	26	1650' FSL 1650' FEL 20-17S-28E	10,987	Oil 2/12/1957	11 7 7/8	8 5/8 32# 5 1/2 15.5#	1990' 6239'-7461'	1010 300	circ 6239'	Plugged 2004
Red Lake Sand Unit 30-015-01483	27	2310' FSL 1650' FEL 20-17S-28E	1960'	Oil 10/20/1939	10 8	8 5/8 7	475' 1645'	50 50	2' 836'	Plugged 2004
Red Lake Sand Unit 30-015-01470	28	2310' FSL 330' FEL 20-17S-28E	1970'	Oil 1/13/1939	10 8	8 5/8 7	513' 1670'	50 50	40' 861'	Plugged 2004
Red Lake Sand Unit 30-015-01467	30	2310' FNL 1650' FEL 20-17S-28E	1935'	Oil 6/26/1939	10 8	8 5/8 7	476' 1659'	20 20	333' 1336'	Plugged 2004
Red Lake Sand Unit 30-015-01493	31	2310' FNL 330' FWL 21-17S-28E	2023'	Oil 4/7/1941	10 8	8 5/8 7	533' 1715'	50 100	60' 101'	Plugged 2004
Red Lake Sand Unit 30-015-01462	33	1650' FNL 990' FEL 20-17S-28E	1953'	Oil 10/8/1956	10 8	8 5/8 28# 5 1/2 14#	533' 1875'	50 80	60' 1265'	Plugged 2004

Red Lake Sand Unit 30-015-01476	34	990' FNL 1650' FEL 20-17S-28E	1935'	Oil 1944	10 8	8 5/8 7	477' 1820'	50 100	4' 207'	Producing
Red Lake Sand Unit 30-015-33301	35	990' FSL 990' FEL 19 17S-28E								Staked
Red Lake Sand Unit 30-015-33110	37	2310' FSL 990' FEL 20-17S-28E	2421' (2393')	Oil 12/4/2003	12 1/4 7 7/8	9 5/8 47# 5 1/2 17#	387' 2410'	275 circ 755 circ		1914-1950' Producing
Red Lake Sand Unit 30-015-33100	38	330' FNL 330' FWL 29-17S-28E	2115' (2092')	Oil 11/22/2003	12 1/4 7 7/8	9 5/8 5 1/2	388' 2106'	250 circ 650 circ		Injection
Red Lake Sand Unit 30-015-33196	43	330' FSL 1650' FEL 20-17S-28E	2138' (2125')	Oil 1/31/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	421' 2137'	260 circ 680 circ		1858-1894' Producing
Red Lake Sand Unit 30-015-33198	45	990' FSL 990' FEL 20-17S-28E	2120' (2104')	Oil 2/5/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	423' 2117'	275 circ 725 circ		1848-1922' Producing
Red Lake Sand Unit 30-015-33200	47	1650' FSL 330' FEL 20-17S-28E	2138' (2107')	Oil 2/19/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	420' 2130'	300 circ 710 circ		1923-1957' Producing
Red Lake Sand Unit 30-015-33201	48	2160' FSL 2310' FEL 20-17S-28E	2130' (2111')	Oil 3/8/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	413' 2130'	300 circ 800 circ		1924-1963.5' Producing
Red Lake Sand Unit 30-015-33330	51	2310' FNL 2310' FEL 20-17S-28E	2065' (2048')	Oil 7/5/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	447' 2065'	350 circ 725 circ		1909-1942.5' Producing
Red Lake Sand Unit 30-015-33334	57	990' FSL 2310 FEL 20-17S-28E								Staked
Red Lake Sand Unit 30-015-33327	62	660' FSL 1310' FWL 29-17S-28E								Staked
Red Lake Sand Unit 30-015-33325	64	660' FSL 10' FWL 20-17S-28E								Staked
Red Lake Sand Unit 30-015-33306	69	1980' FSL 660' FEL 19-17S-28E	1980' (1963')	Oil 6/18/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	427' 1980'	575 circ 750 circ		1836-1872' Producing
Red Lake Sand Unit 30-015-33296	72	1650' FSL 1650' FWL 20-17S-28E	2080' (2061')	Oil 6/24/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	418' 2073'	325 circ 750 circ		1895.5-1933' Producing
Red Lake Sand Unit 30-015-33296	74	2310' FSL 2310' FEL 20-17S-28E	2125' (2105')	Oil 6/7/2004	12 1/4 7 7/8	8 5/8 24# 4 1/2 10.5#	412' 2118'	325 circ 800 circ		1913-1949.5' Producing
RLPSU Tr.1 30-015-01608	2	330' FNL 2310' FWL 29-17S-28E	1865'	Oil 11/19/1944	10 8	8 5/8 32# 7 20#	490' 1700'	50 17' 50 893'		Plugged 1985
RLPSU Tr.1 30-015-01458	6	1650' FSL 330' FEL 19-17S-28E	1892' (1855')	Oil 10/2/1945	10 8	8 5/8 28# 7 20#	456' 1718'	50 circ 100 105'		Plugged 1987
RLPSU Tr.2 30-015-01474	1	2310' FNL 2310' FWL 20-17S-28E	1971'	Oil 6/2/1945	10 8	8 5/8 7	420' 1802'	50 circ 100 189'		Plugged 1987
RLPSU Tr.4 30-015-01482	4	1650' FSL 990' FEL 20-17S-28E	1998'	Oil 11/12/1945	10 8	8 5/8 32# 7 20#	510' 1698'	25 274' 25 1295'		Plugged 1986
RLPSU Tr.9 30-015-01477	1	1650' FSL 2310' FWL 20-17S-28E	1941' (1600')	Oil 7/12/1944	10 8	8 5/8 32# 7 20#	600' 1803'	50 127' 100 190'		Plugged 1987
RLPSU Tr.9 30-015-01458	2	1650' FSL 990' FWL 20-17S-28E	1930'	Oil 8/22/1944	10 8	8 5/8 32# 7 24#	556' 1754'	50 83' 100 141'		Plugged 1987
RLPSU Tr. 12 30-015-01469	2	990' FNL 330' FEL 20-17S-28E	1700'	Oil 1/7/1942	10 8	8 5/8 7	514' 1660'	50 41' 100 46'		Plugged 1986

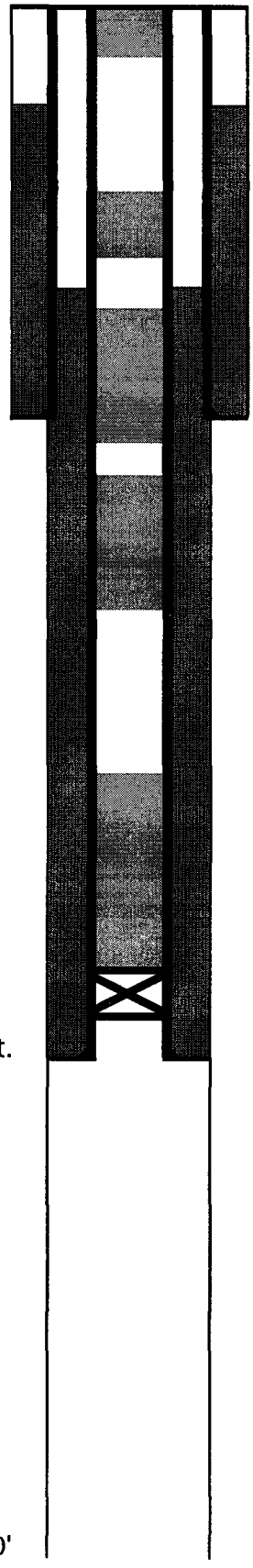
RLPSU Tr. 12 30-015-01468	3	1650' FNL 1980' FEL 20-17S-28E	1950'	Oil 2/16/1959	10 7 7/8	8 5/8 24# 5 1/2 15.5#	475' 1950'	60 150	circ 807'	Plugged 1987
RLPSU Tr. 13 30-015-01466	2	2310' FNL 330' FEL 20-17S-28E	1964'	Oil 11/22/1938	10 8	8 5/8 7	532' 1660'	50 50	176' 1058'	Plugged 1986
State 30-015-01473	3	400' FSL 2240' FEL 20-17S-28E	1920' (1879')	Oil 9/22/1950	11 8	8 5/8 28# 7 17#	414' 1599'	25 50	284' 792'	Plugged 1951


RED LAKE UNIT
MIDLAND MAP
MACK ENER (OP)
SDX RES. (OP)
Mack Ener
Yates Drlg
Mack Oil
Pecos Valley
H E Yates
HBP
Gas Well Serv
Quality Oil Ltd
Brooks
Aspen Oil
CFM Oil
Am Petro
Marbob
Melrose Oper
Hanson Ener
Spurck St. Com.
Platt St.
Williams
Ricks Expl
Delhi St.
State
U.S.

Burnham Oil Company

Brooks #2

2310 FNL & 330 FEL Sec. 19-T17S-R28E



Set surface plug

Estimated top @ 475'

Tag plug @ 1075'

50' cmt.@ 1125'

Estimated top @ 1211'

Tag plug @ 1232'

8 5/8" csg. set @ 1282' w/50sx cmt.

100' cmt.@ 1332'

Tag plug @ 1360'

100' cmt.@ 1460'

Tag plug @ 1810'

140' cmt.@ 1950'

CIBP set @ 1950'

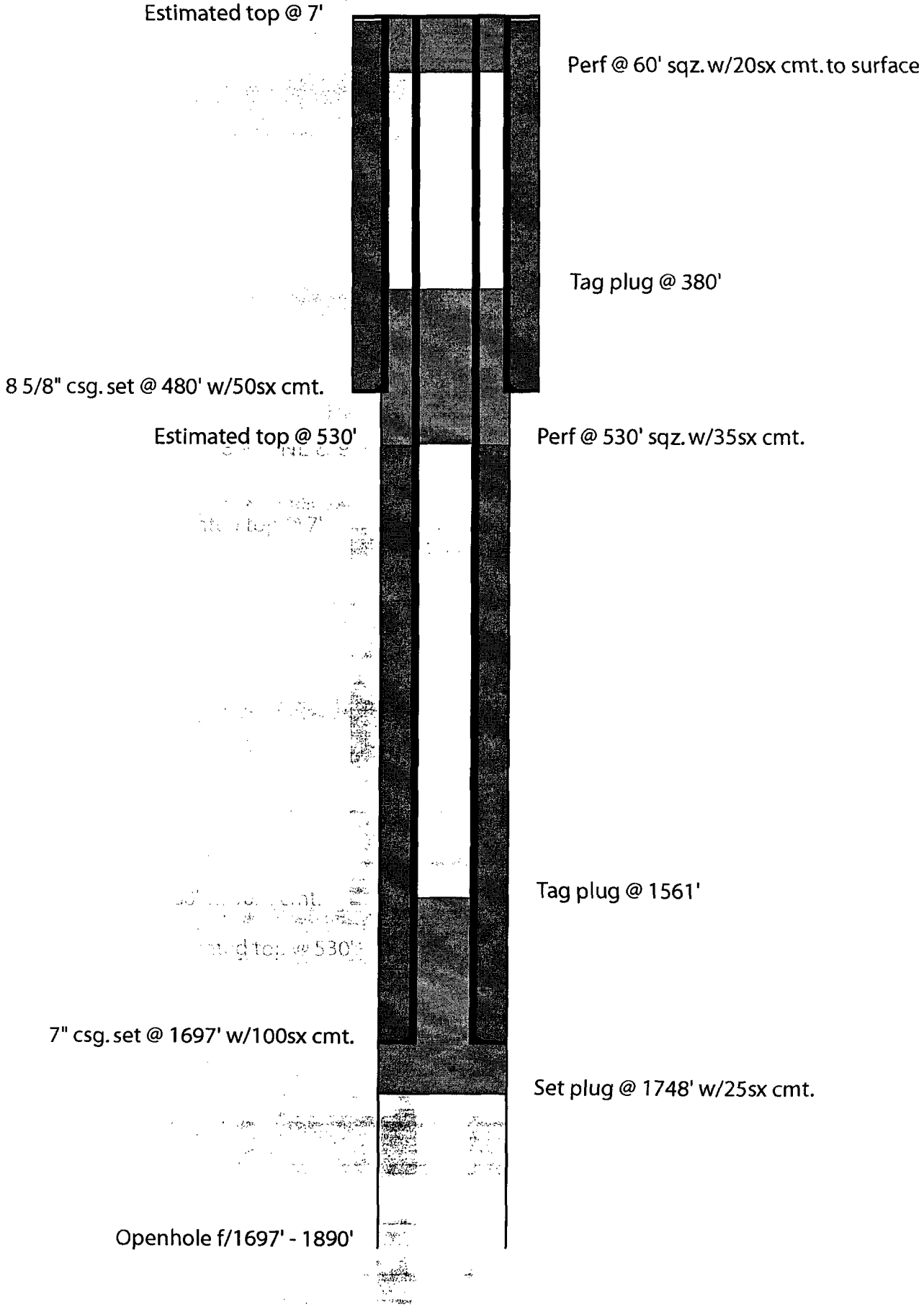
5 1/2" csg. set @ 1973' w/100sx cmt.

Openhole f/1973' - 3310'

Mack Energy Corporation

Red Lake Sand Unit #10

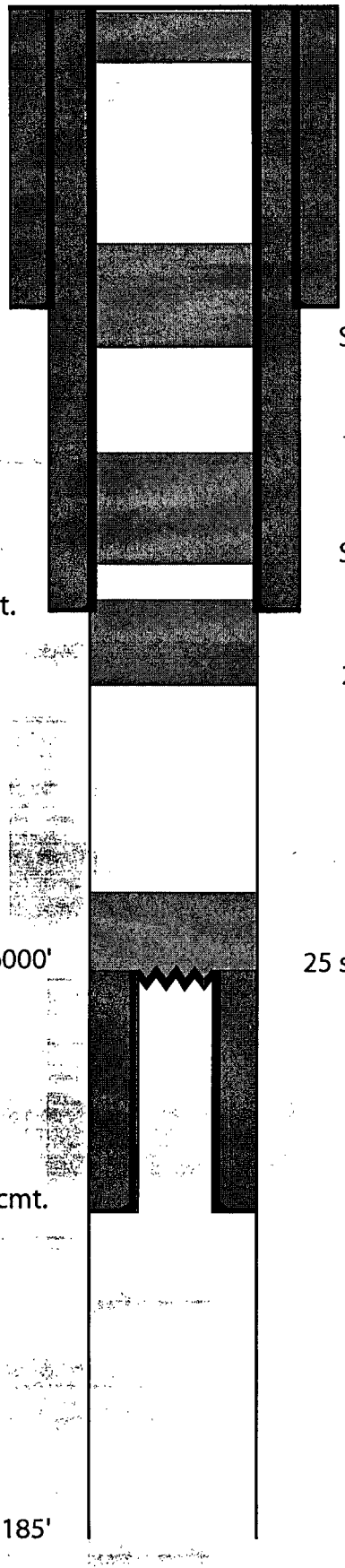
330 FNL & 990 FWL Sec. 29-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #11

990 FNL & 1650 FWL Sec. 29-T17S-R28E



Tag plug @ 2'

Set surface plug @ 60' w/25sx cmt.

Tag plug @ 470'

13 3/8" csg. set @ 543' w/400sx cmt.

Set plug @ 593' w/35sx cmt.

Tag plug @ 1670'

Set plug @ 1802' w/35sx cmt.

8 5/8" csg. set @ 1996' w/910sx cmt.

25 sx cmt. on bottom of 8 5/8" csg.

Shot off 5 1/2" csg. @ 6000'

25 sx cmt. on top of 5 1/2" csg.

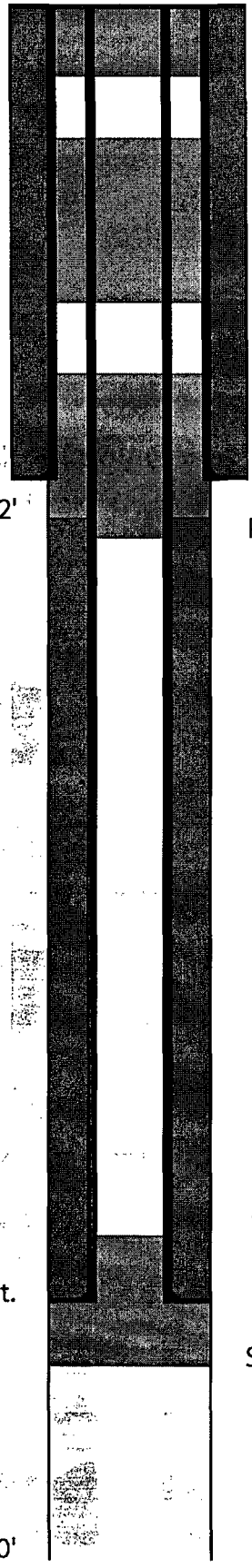
5 1/2" csg. set @ 7505' w/300sx cmt.

Openhole f/7505' - 10,185'

Mack Energy Corporation

Red Lake Sand Unit #15

330 FSL & 330 FEL Sec. 19-T17S-R28E



Perf @ 60' sqz. w/165sx cmt. to surface

Tag plug @ estimated 129'

Perf @ 245' sqz. w/40sx cmt.

Tag plug @ 380'

8 5/8" csg. set @ 446' w/50sx cmt.

Estimated top @ 482'

Perf @ 496' sqz. w/40sx cmt.

Tag plug @ 1650'

7" csg. set @ 1704' w/100sx cmt.

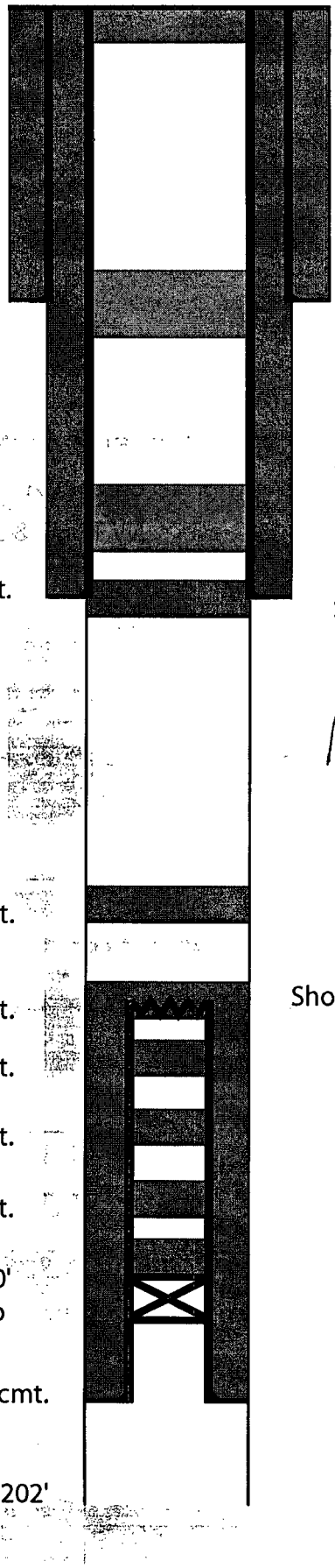
Set plug @ 1754' w/25sx cmt.

Openhole f/1704' - 1840'

Mack Energy Corporation

Red Lake Sand Unit #16

660 FSL & 660 FWL Sec. 20-T17S-R28E



Set surface plug @ 60' w/25sx cmt.

13 3/8" csg. set @ 510' w/550sx cmt.

Tag plug @ 460'

Set plug @ 560' w/40sx cmt.

Tag plug @ 1110'

Set plug @ 1217' w/40sx cmt.

8 5/8" csg. set @ 2511' w/1450sx cmt.

Set plug @ 5300' w/35sx cmt.

plug @ 2560'

Set plug @ 5300' w/35sx cmt.

Set plug @ 6500' w/35sx cmt.

Shot off 4 1/2" csg. @ 6450'

Set plug @ 7000' w/35sx cmt.

Set plug @ 7800' w/35sx cmt.

Set plug @ 9550' w/35sx cmt.

Set CIBP @ 9850' w/35' cmt. cap

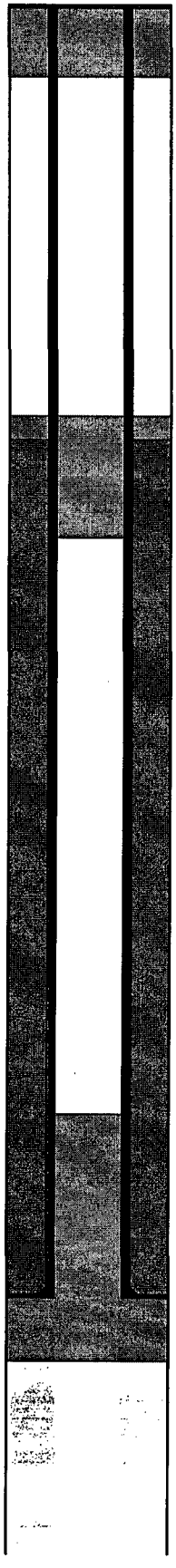
4 1/2" csg. set @ 10,020' w/300sx cmt.

Openhole f/10,020' - 10,202'

Mack Energy Corporation

Red Lake Sand Unit #18

990 FSL & 1650 FWL Sec. 20-T17S-R28E



Perf @ 60' sqz. w/40sx cmt. to surface

Tag plug @ 400'

Estimated top @ 417'

Perf @ 500' sqz. w/25sx cmt.

Tag plug @ 1565'

5 1/2" csg. set @ 1750' w/175sx cmt.

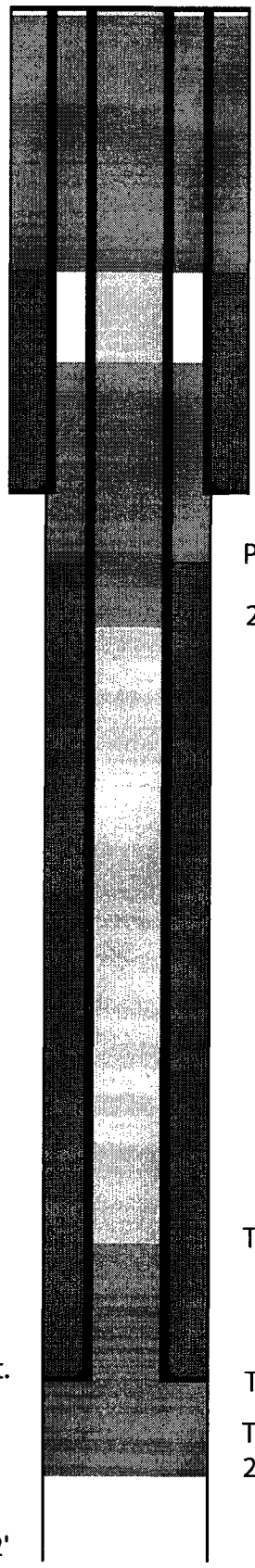
Set plug @ 1800' w/25sx cmt.

Openhole f/1750' - 1890'

Mack Energy Corporation

Red Lake Sand Unit #19

330 FSL & 2310 FWL Sec. 20-T17S-R28E



Tag plug @ 3'

Tag Plug @ 60', 10sx cmt. @ 60'

Estimated top @ 200'

Perf @ 200' sqz. w/50sx cmt.

Tag plug @ 390'

8 5/8" csg. set @ 525' w/50sx cmt.

Estimated top @ 575'

Perf @ 575'

25sx cmt. @ 625'

Tag plug @ 1592', Circ. hole w/mud

7" csg. set @ 1742' w/100sx cmt.

Tag plug @ 1749', 25sx cmt. @ 1749'

Tag plug @ 1780', 25sx cmt. @ 1780'

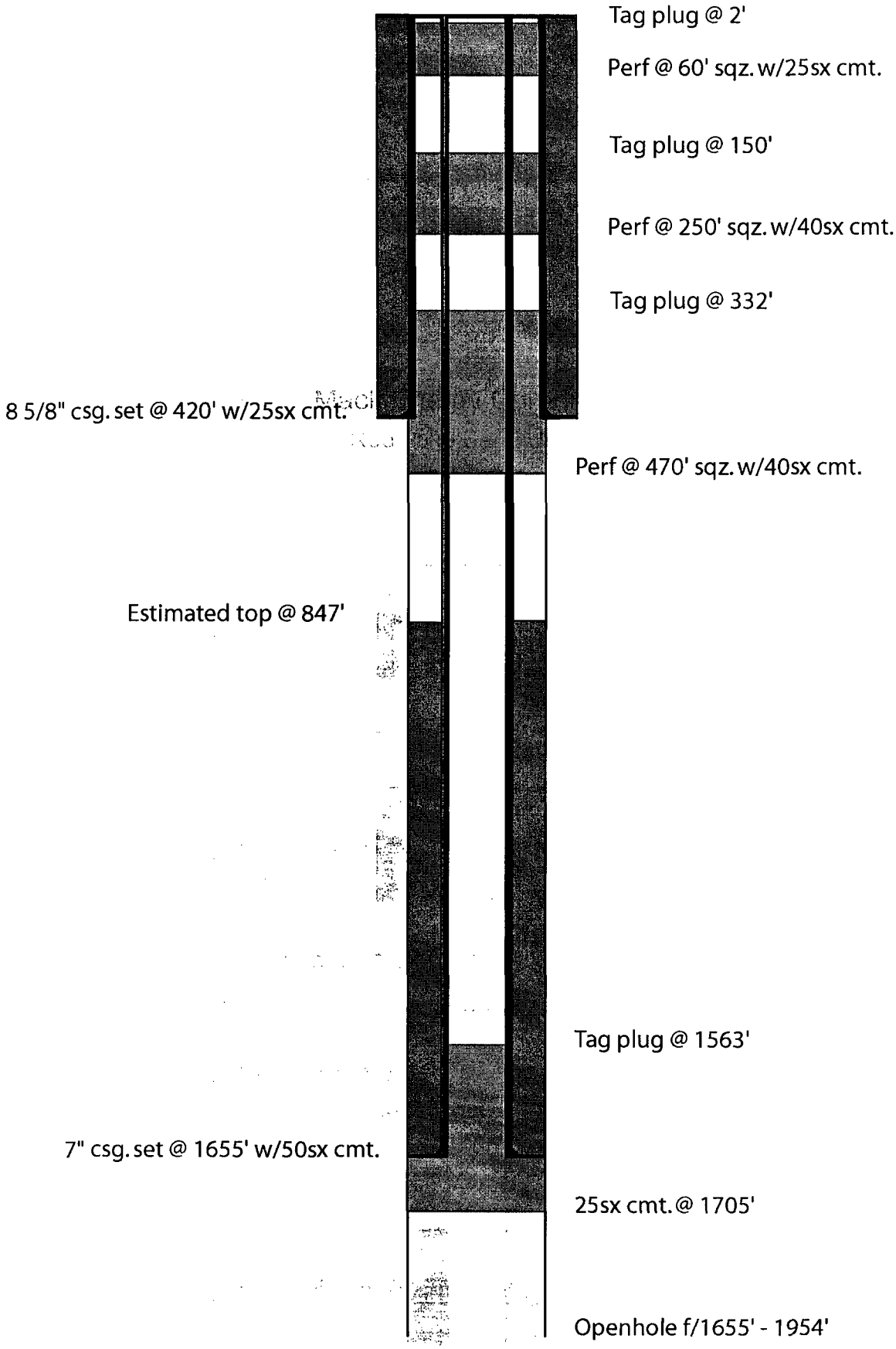
25sx cmt. @ 1792'

Openhole f/1742' - 1882'

Mack Energy Corporation

Red Lake Sand Unit #20

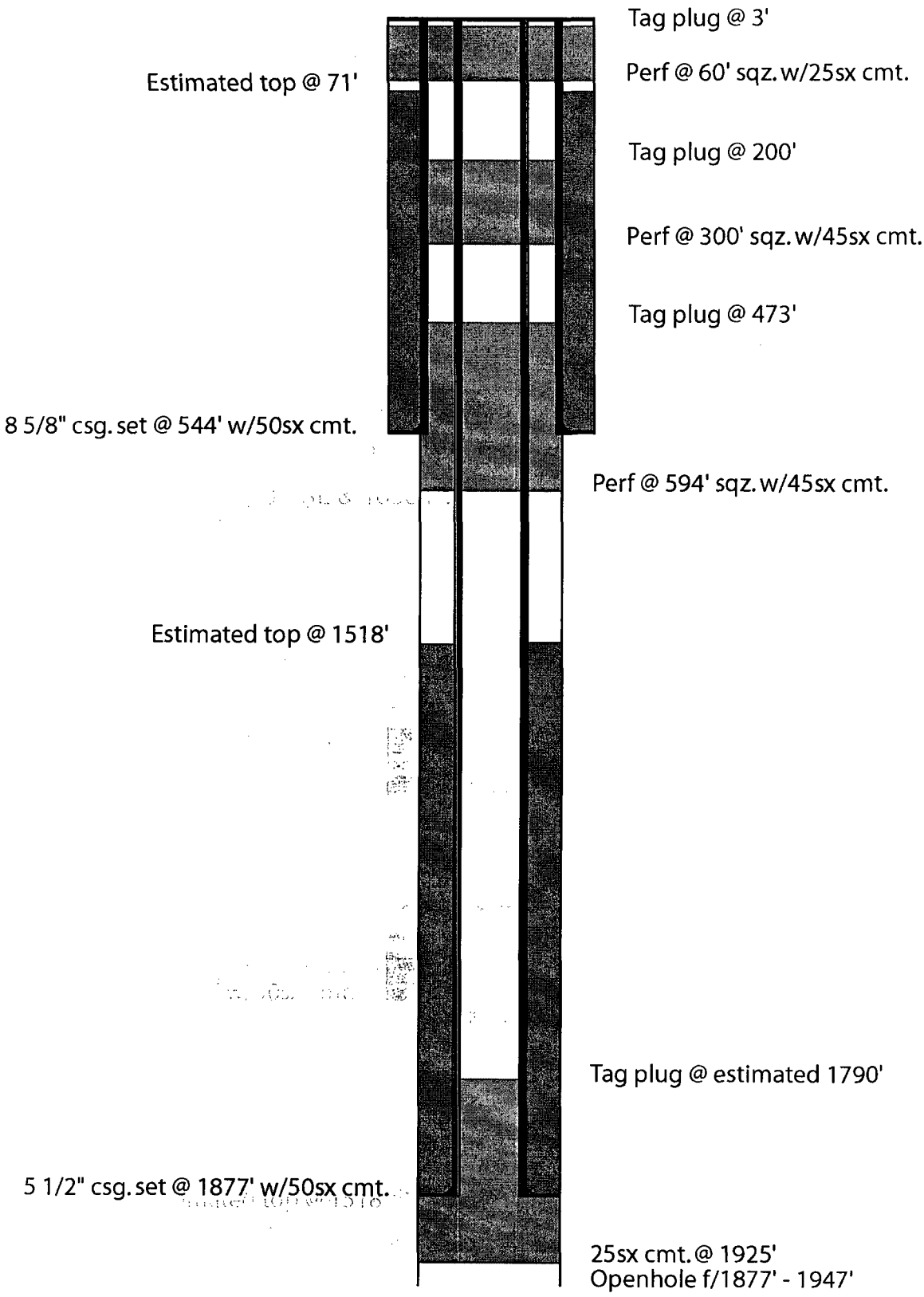
990 FSL & 2310 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #24

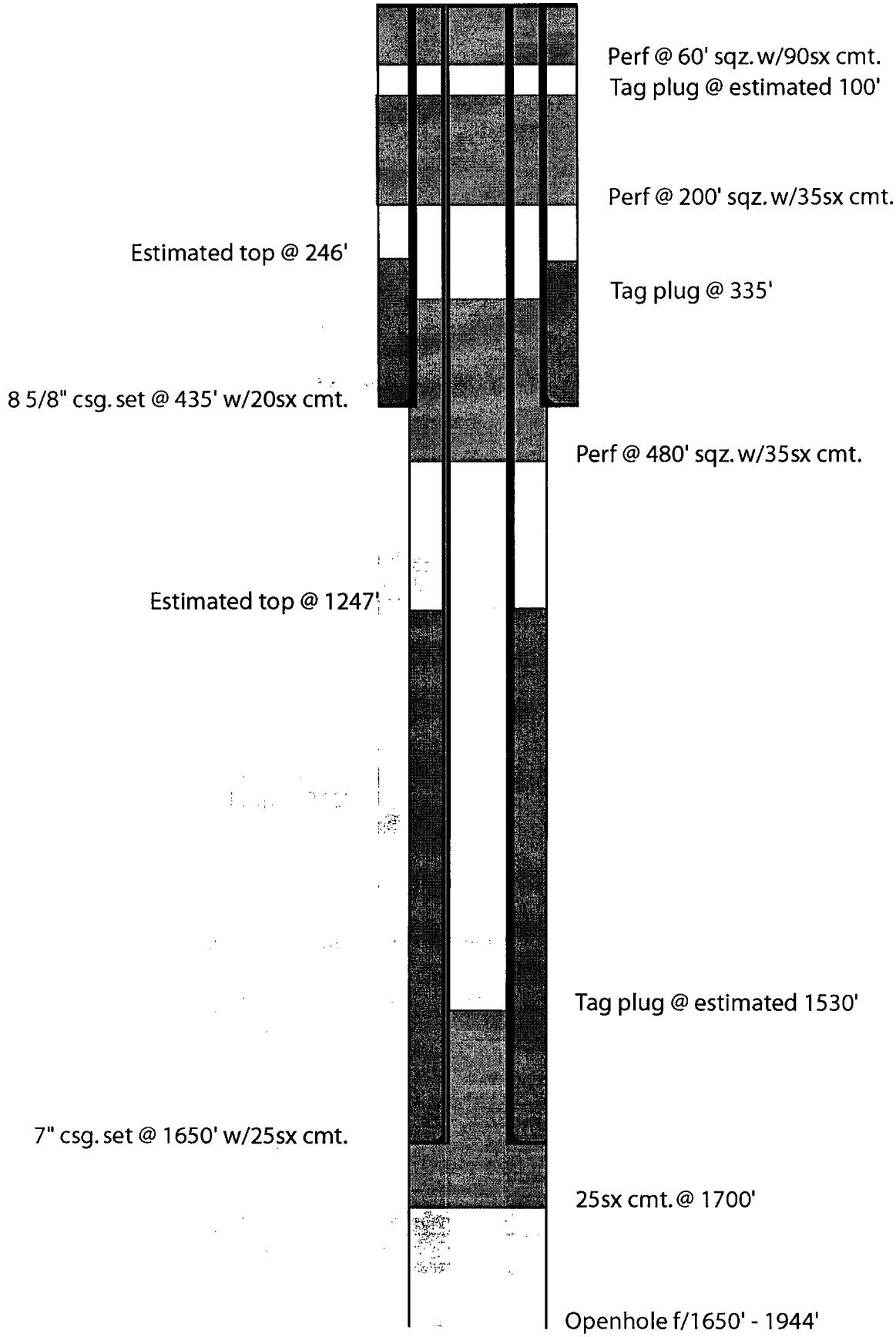
2310 FSL & 1650 FWL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #25

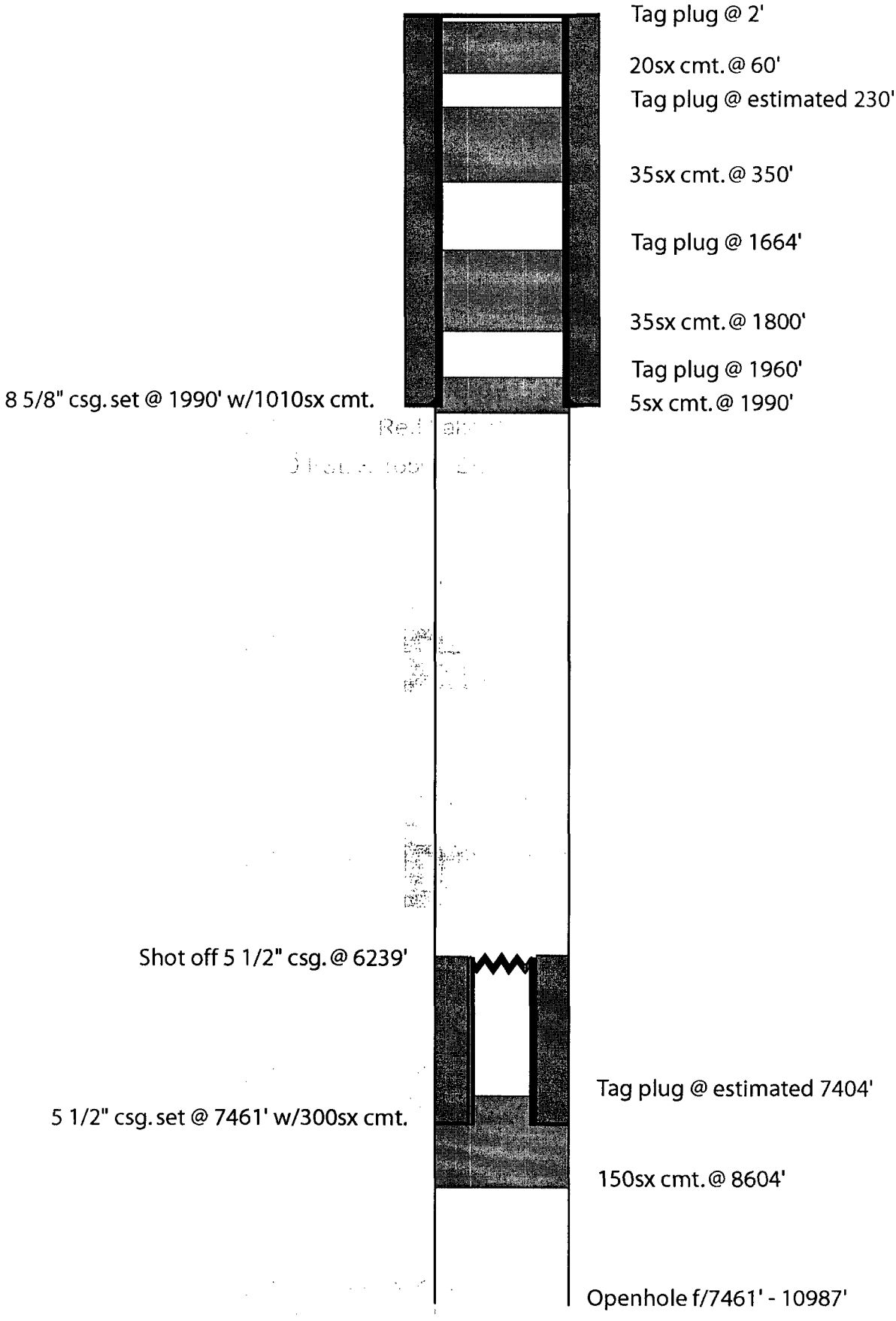
1650 FSL & 2310 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #26

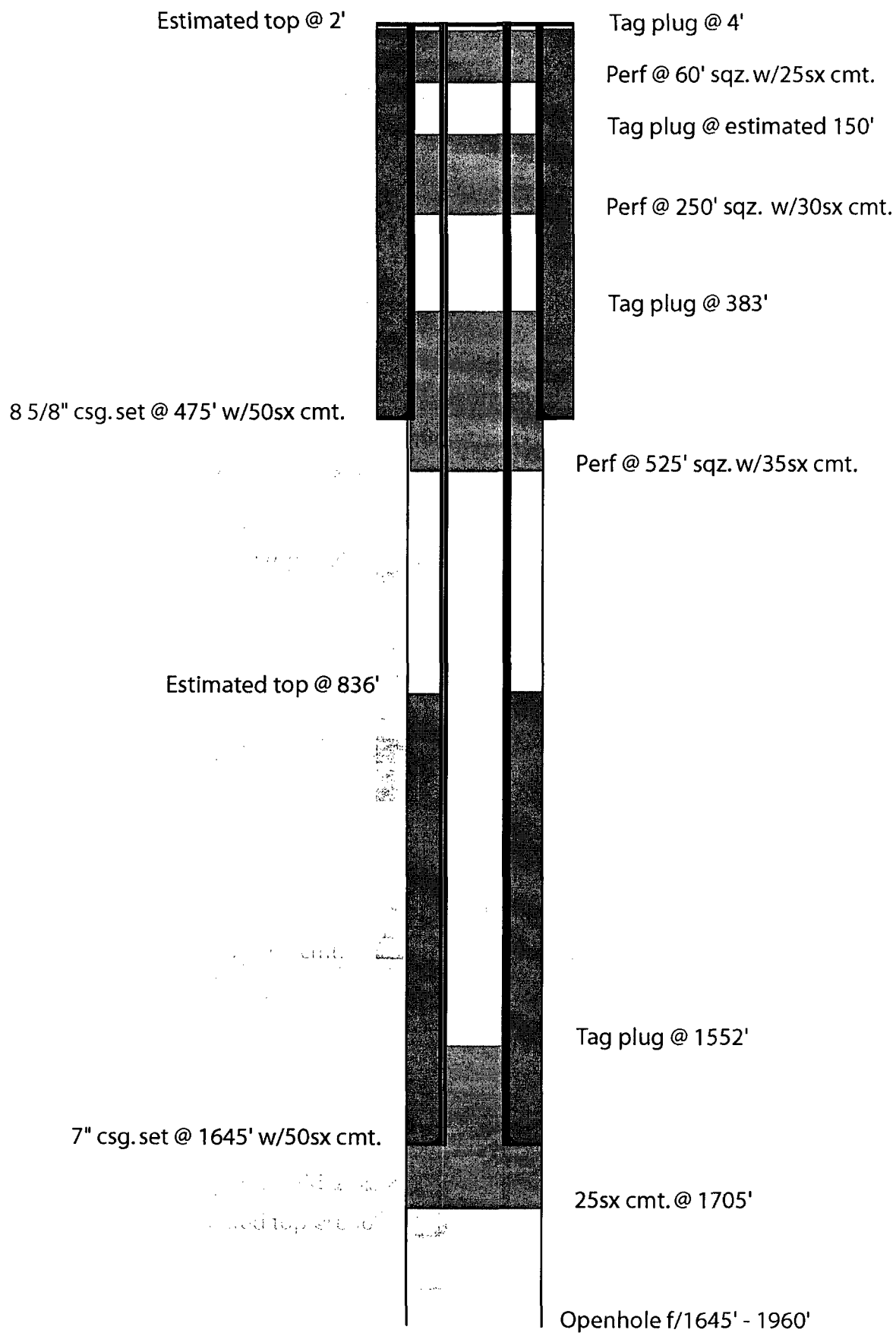
1650 FSL & 1650 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #27

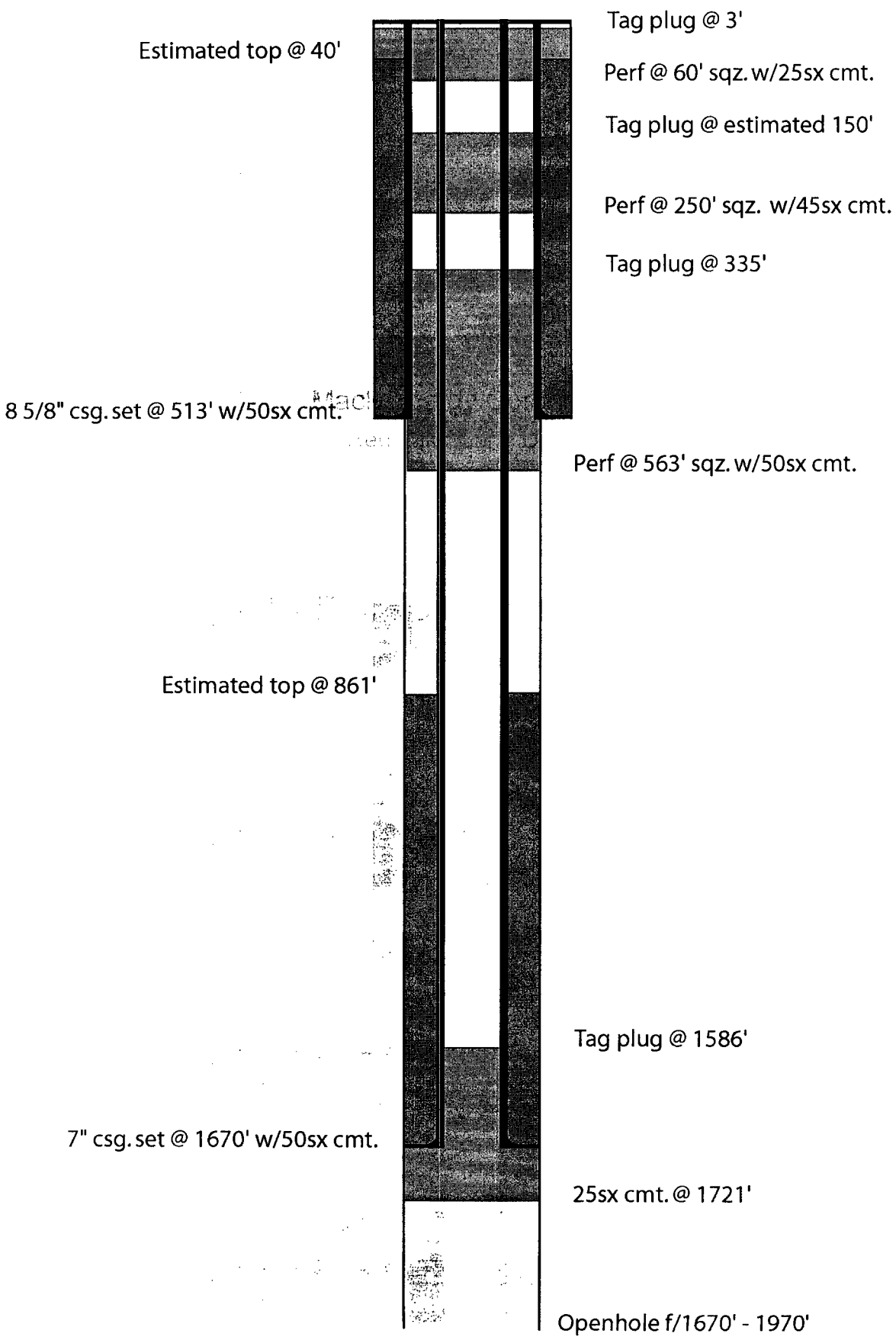
2310 FSL & 1650 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #28

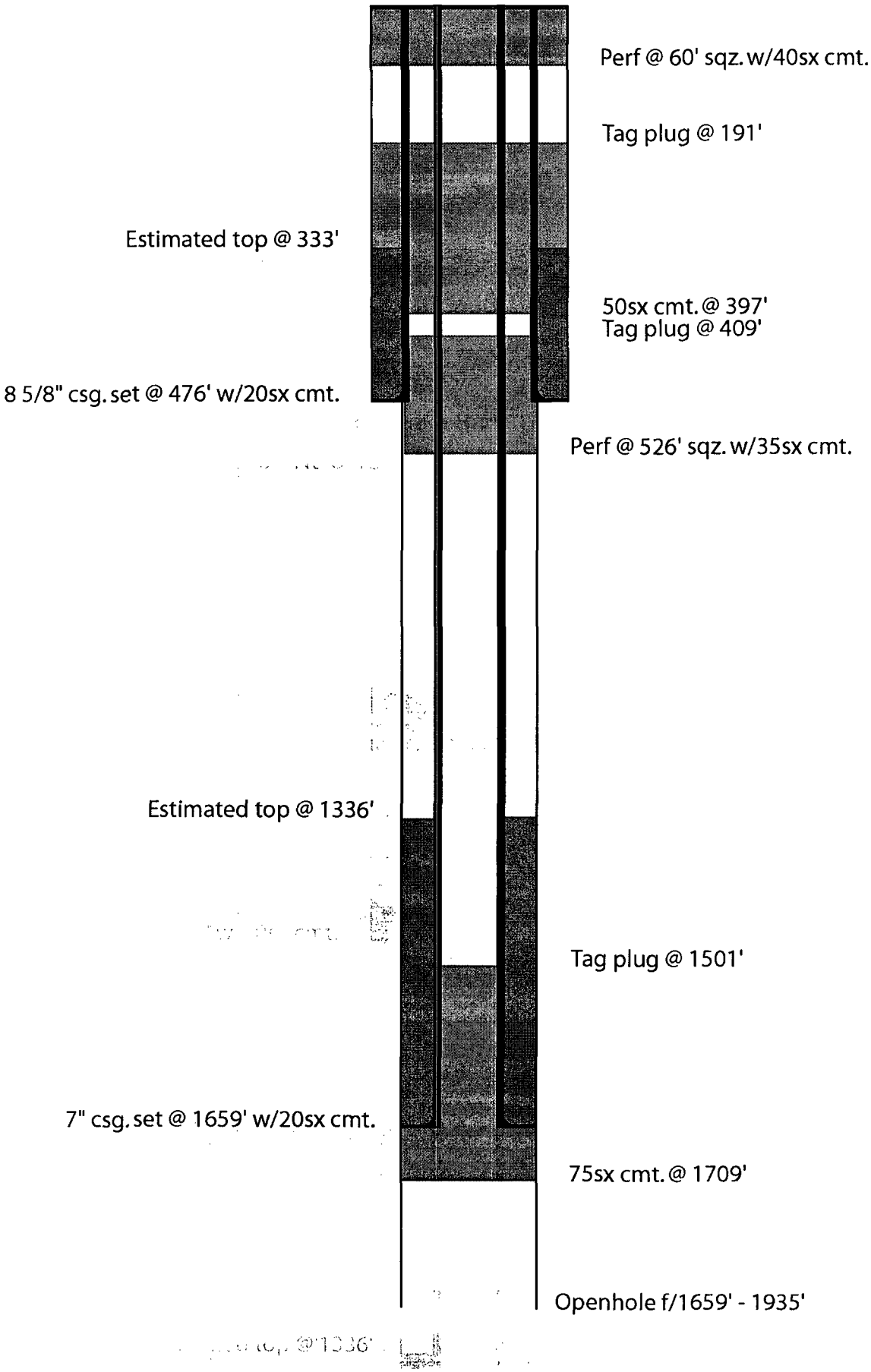
2310 FSL & 330 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #30

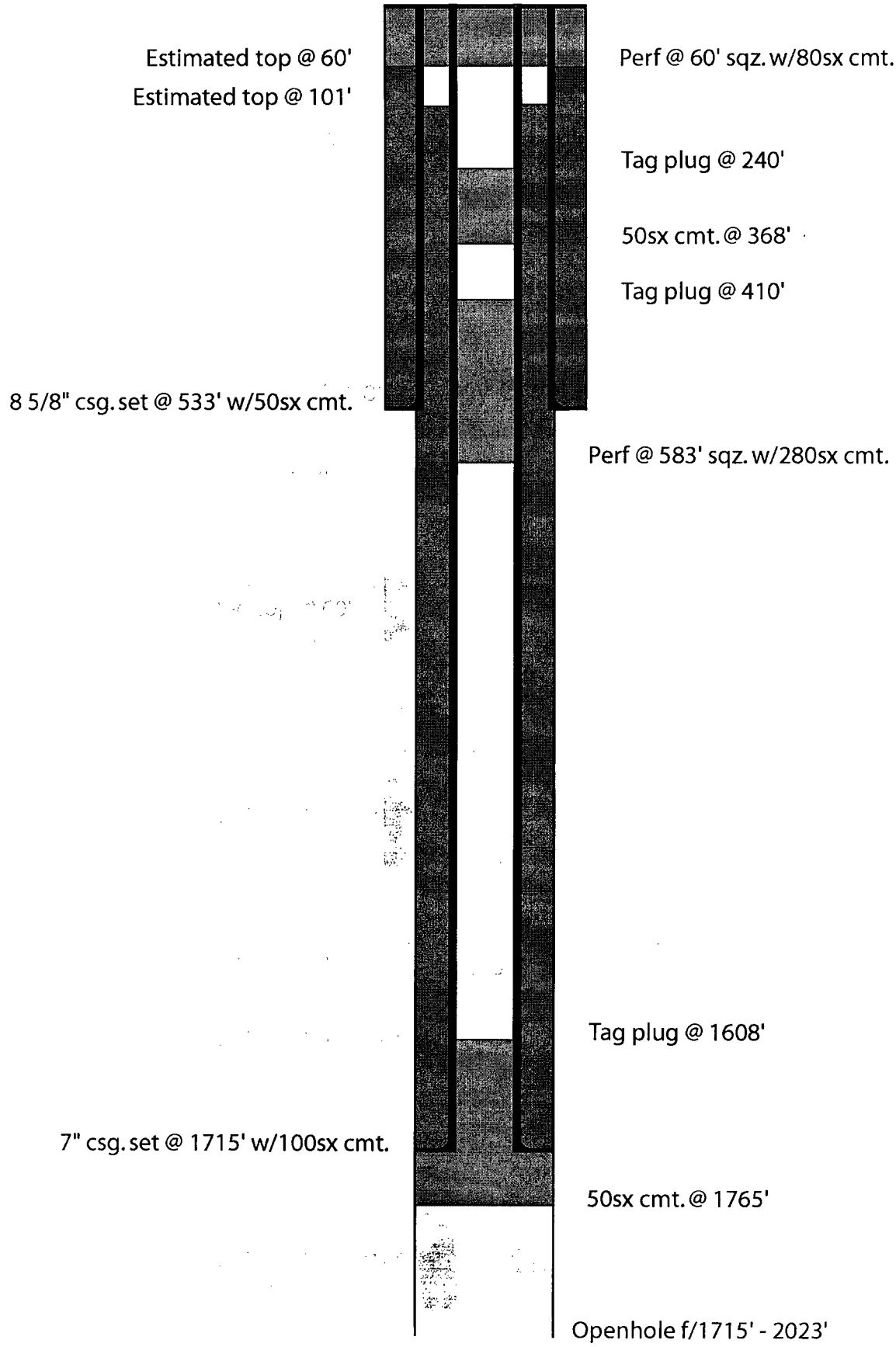
2310 FNL & 1650 FEL Sec. 20-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #31

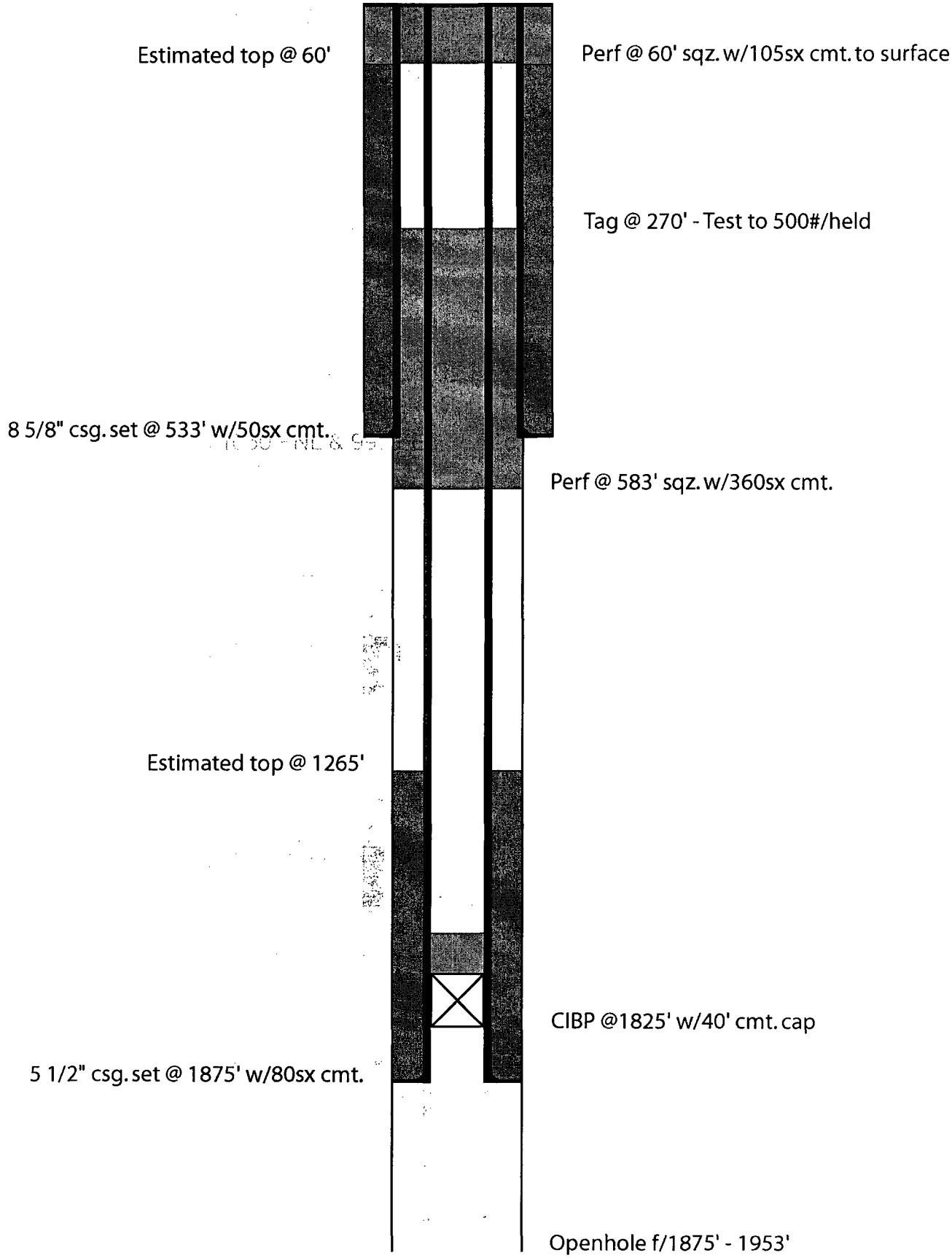
2310 FNL & 330 FWL Sec. 21-T17S-R28E



Mack Energy Corporation

Red Lake Sand Unit #33

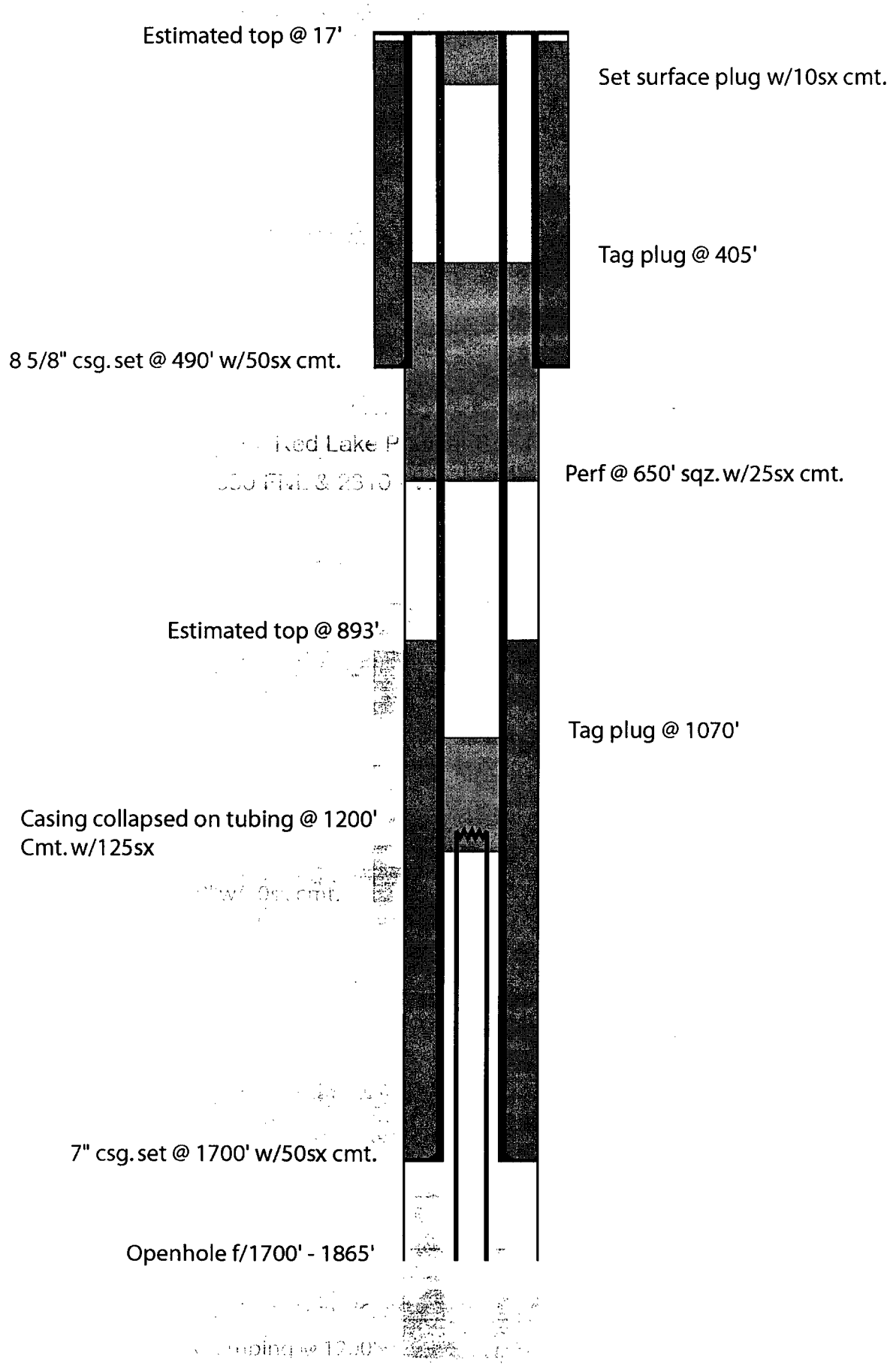
1650 FNL & 990 FEL Sec. 20-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 1 #2

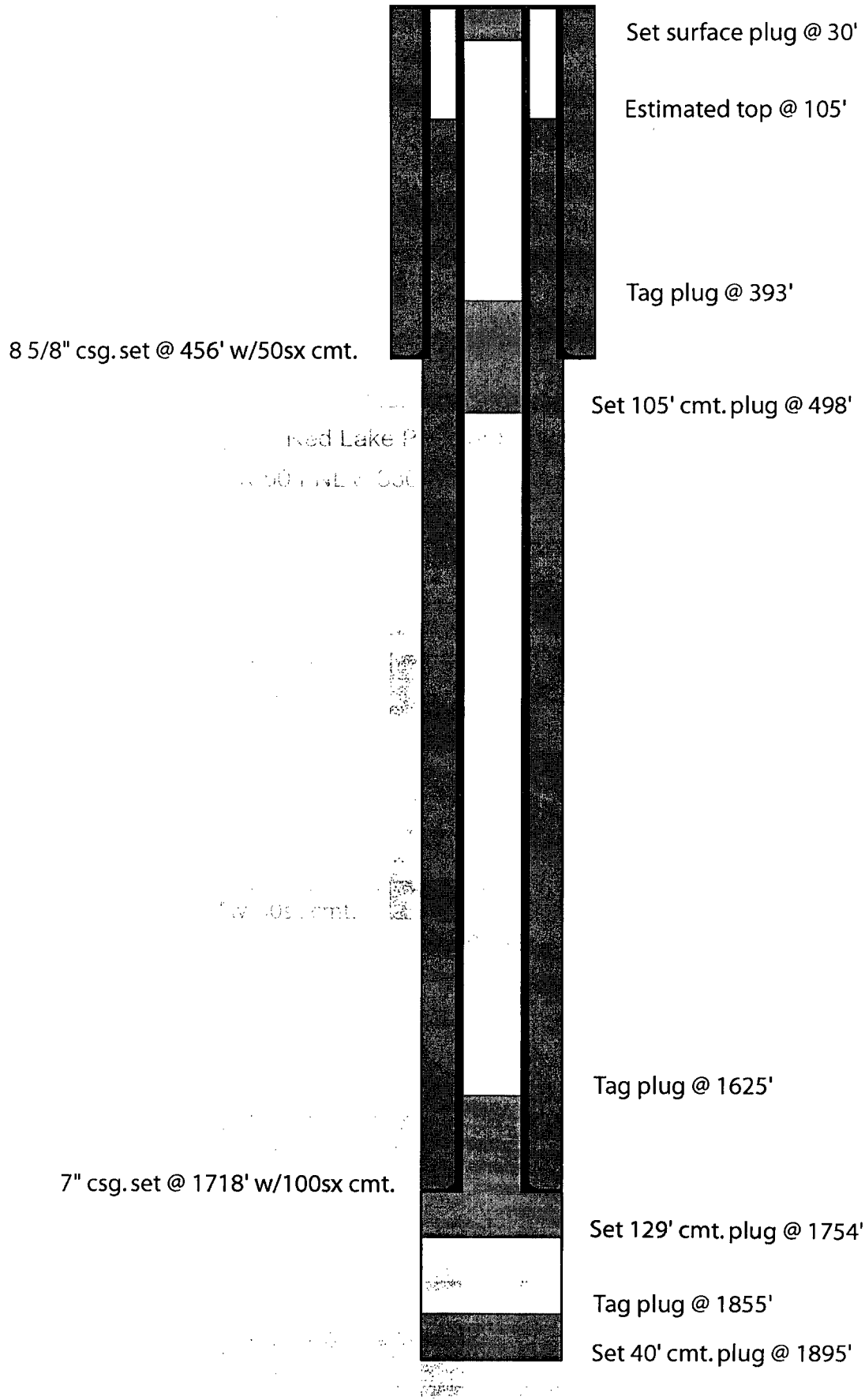
330 FNL & 2310 FWL Sec. 29-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 1 #6

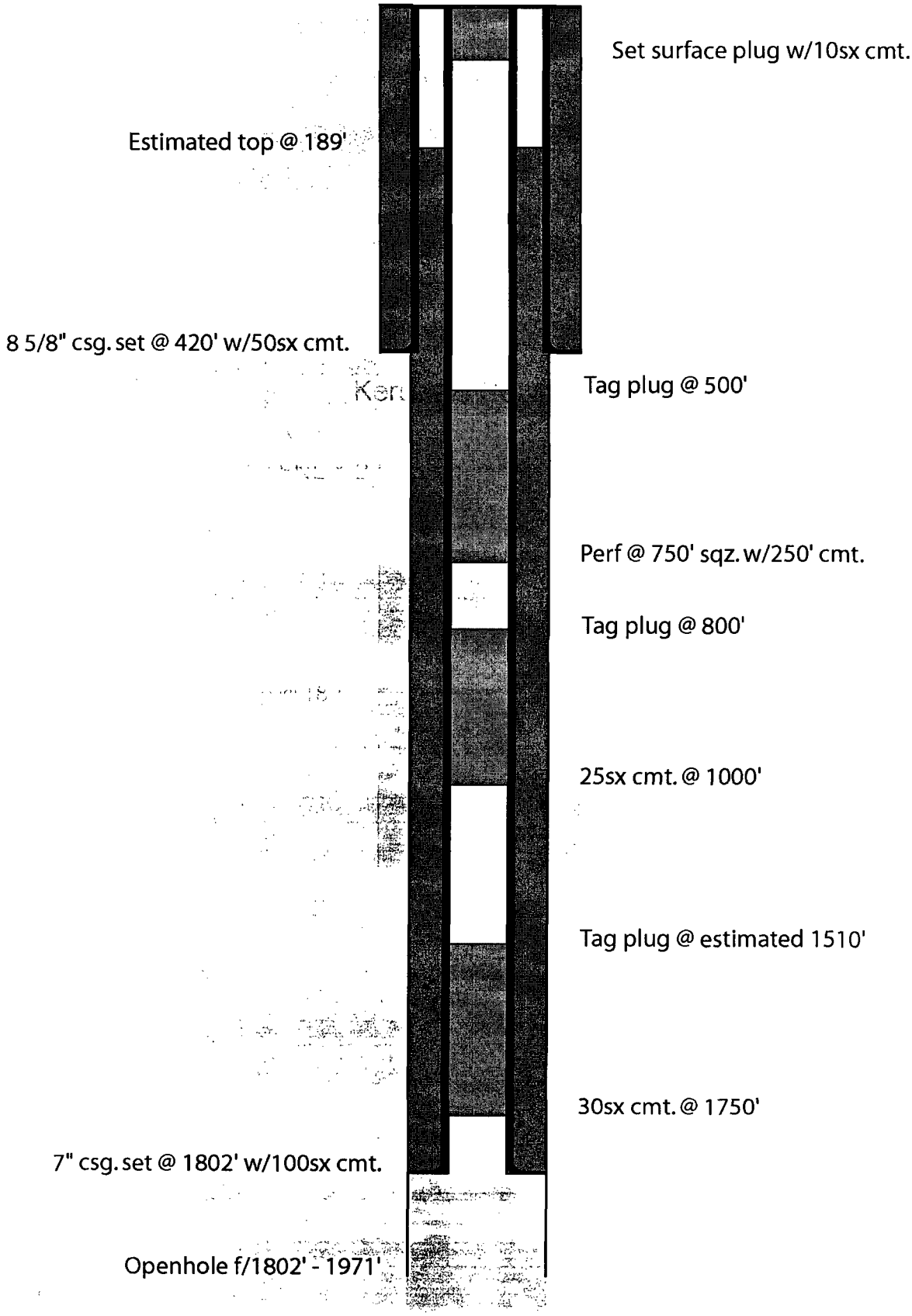
1650 FNL & 330 FEL Sec. 19-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 2 #1

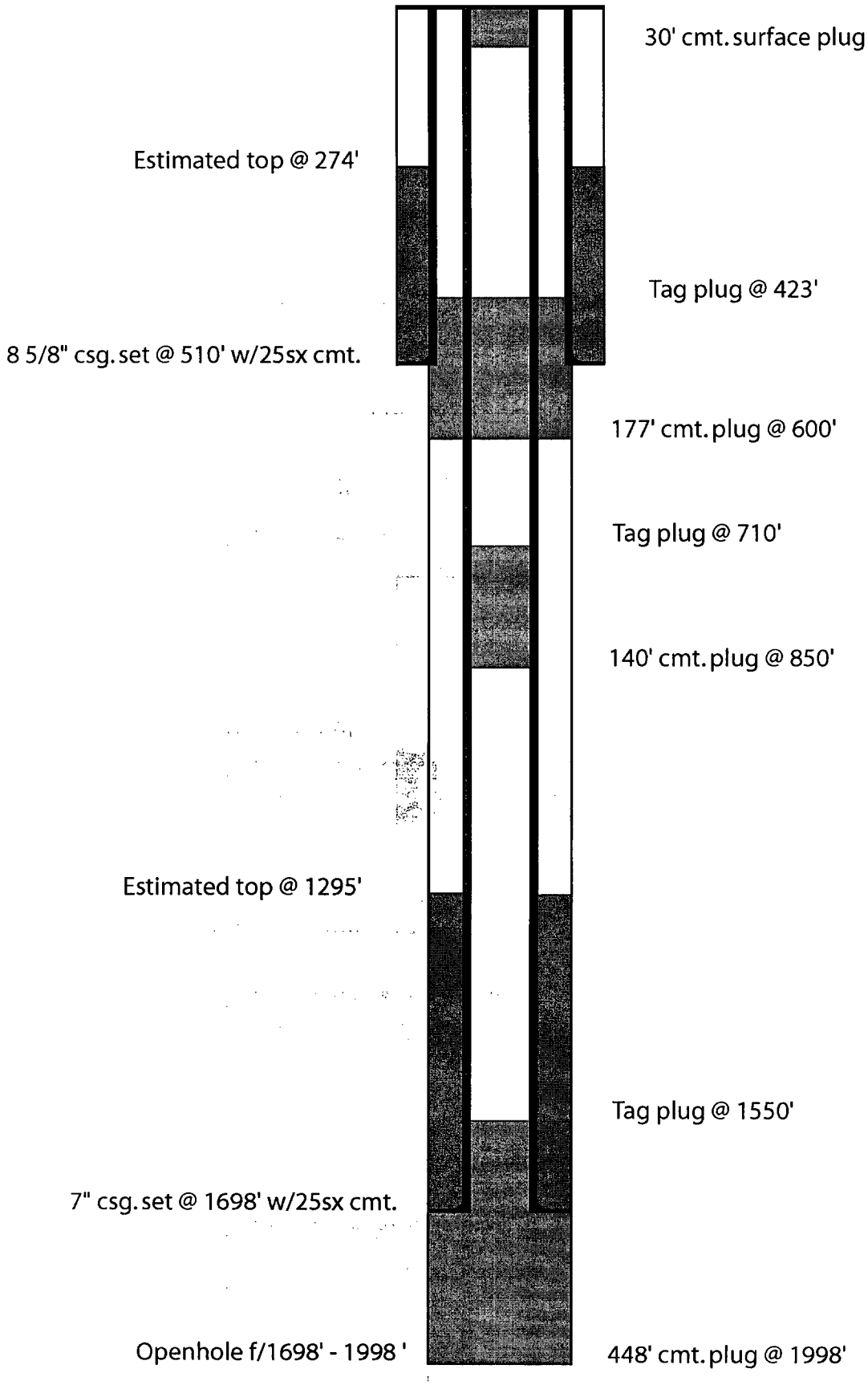
2310 FNL & 2310 FWL Sec. 20-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 4 #4

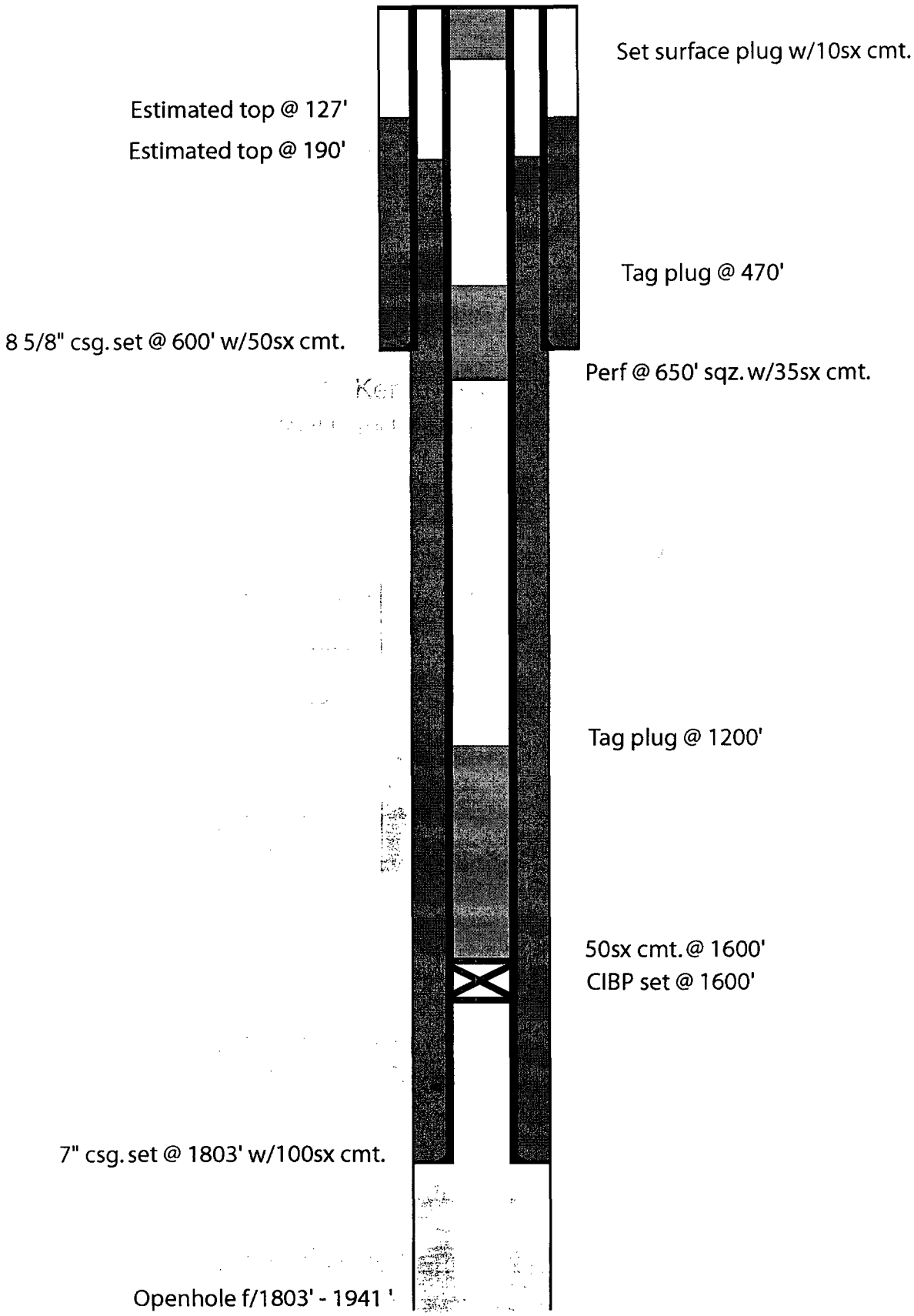
1650 FSL & 990 FEL Sec. 20-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 9 #1

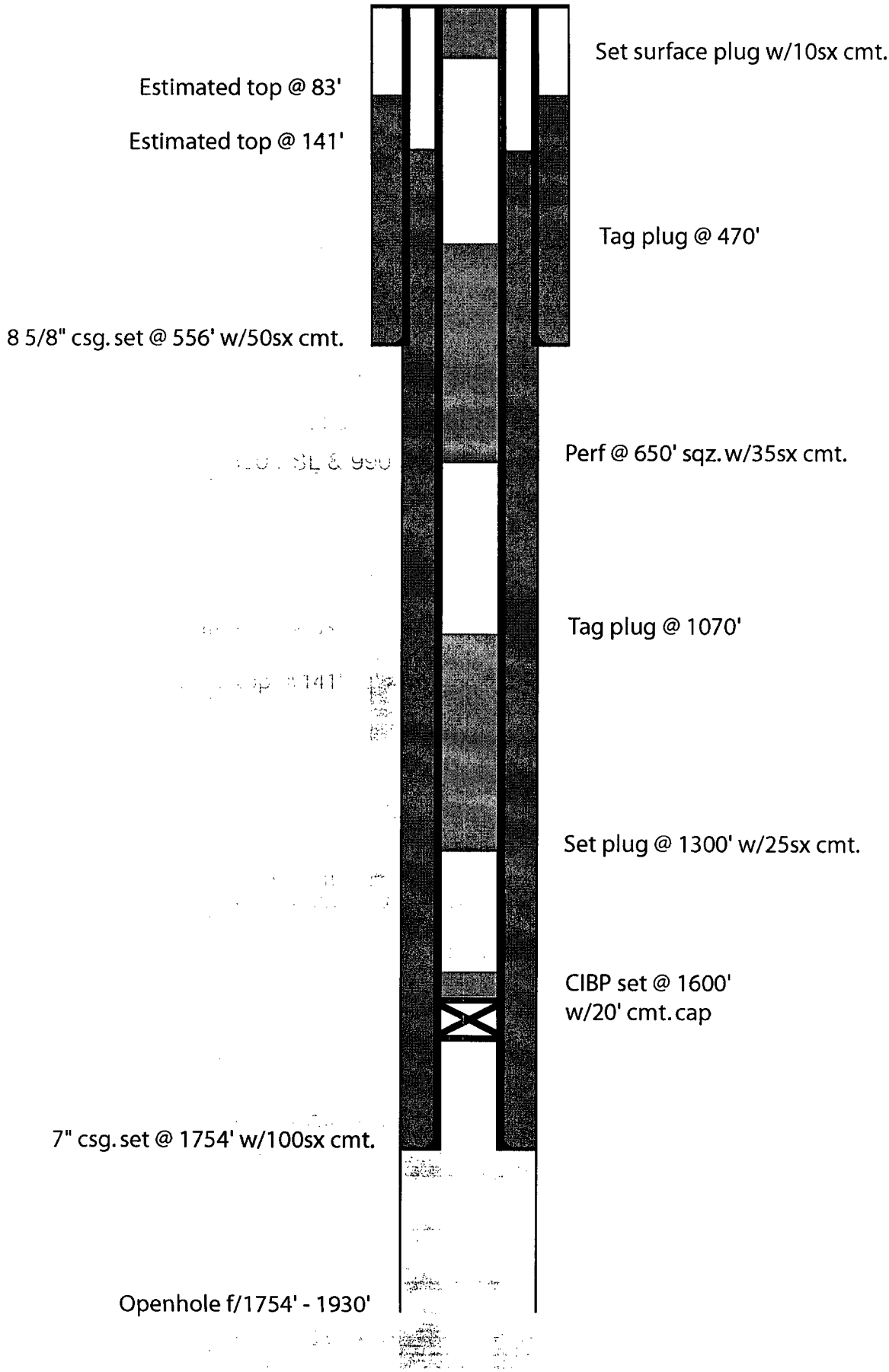
1650 FSL & 2310 FWL Sec. 20-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 9 #2

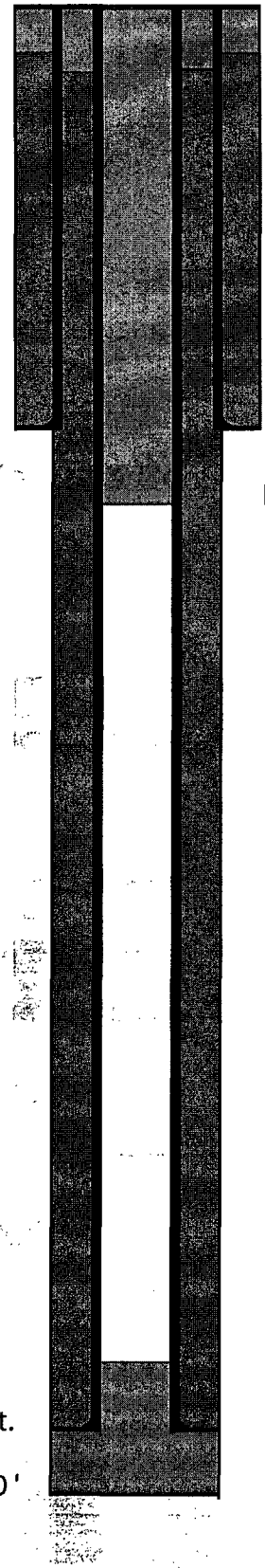
1650 FSL & 990 FWL Sec. 20-T17S-R28E



Kersey & Company

Red Lake Premier Sand Unit Tr. 12 #2

990 FNL & 330 FEL Sec. 20-T17S-R28E



Estimated top @ 41'
Estimated top @ 46'

8 5/8" csg. set @ 514' w/50sx cmt.

Perf @ 600' sqz. w/100sx cmt.

Tag plug @ 1600'

5 1/2" csg. set @ 1660' w/100sx cmt.

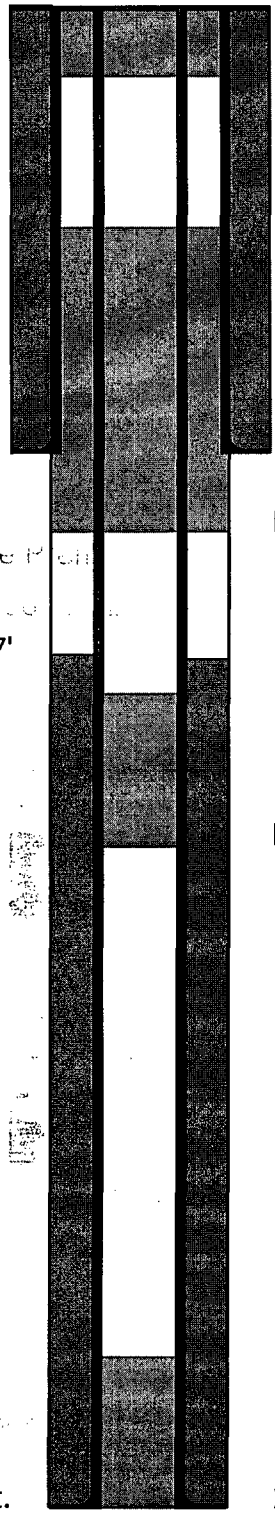
Openhole f/1660' - 1700 '

100' cmt. plug @ 1700'

Kersey & Company

Red Lake Premier Sand Unit Tr. 12 #3

1650 FNL & 1980 FEL Sec. 20-T17S-R28E



10sx cmt. @ 50'

Tag plug @ 306'

8 5/8" csg. set @ 475' w/60sx cmt.

Perf @ 650' sqz. w/344' cmt.

Estimated top @ 807'

Tag plug @ 900'

Perf @ 1000' sqz. w/15sx cmt.

Tag plug @ 1850'

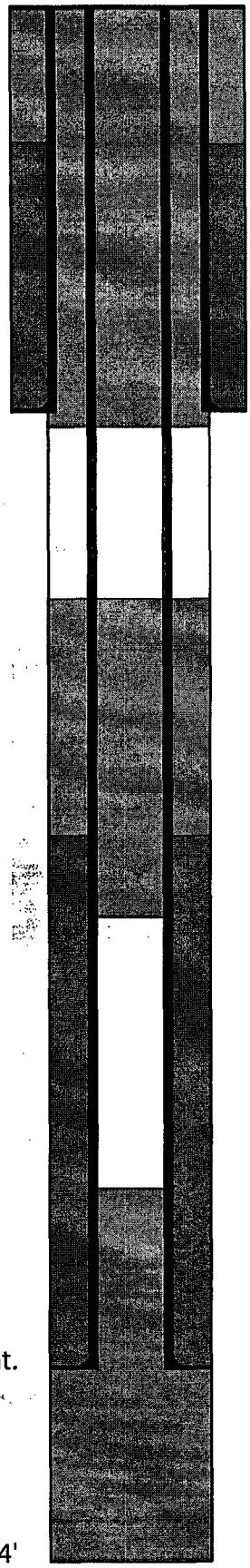
5 1/2" csg. set @ 1950' w/150sx cmt.

25sx cmt. @ 1950'

Kersey & Company

Red Lake Premier Sand Unit Tr. 13 #2

2310 FNL & 330 FEL Sec. 20-T17S-R28E



TOC @ 176'

8 5/8" csg. set @ 532' w/50sx cmt.

Perf @ 550' set surface plug

Tag plug @ 843'

TOC @ 1058'

Perf @ 1160' set 317' cmt. plug

Tag plug @ 1452'

7" csg. set @ 1660' w/50sx cmt.

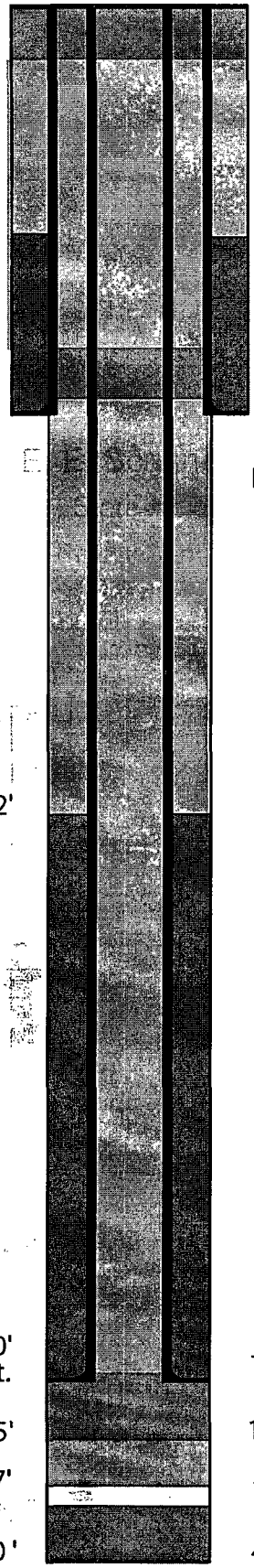
Openhole f/1660' - 1964'

Set 512' cmt. plug @ TD

E. E. Scannell

State #3

400 FSL & 2240 FEL Sec. 20-T17S-R28E



Tag mud @ estimated 26'

5sx cmt. @ estimated 26'

Estimated top @ 284'

353' heavy mud @ estimated 379'

Tag plug @ estimated 379'

Tag mud @ 405'

8 5/8" csg. set @ 414' w/25sx cmt.

5sx cmt. @ 405'

Perf @ 600' sqz. w/100sx cmt.

Estimated top @ 792'

1185' heavy mud @ 1590'

7" csg. set @ 1599' w/50sx cmt.

Tag plug @ 1590'

Tag mud @ 1825'

15sx cmt. @ 1825'

42' heavy mud @ 1867'

Tag plug @ 1879'

Openhole f/1599' - 1920'

41' cmt. plug @ 1920'

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

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.

5. Lease Serial No.
NMLC-065729

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.
RED LAKE SAND UNIT 51

2. Name of Operator
MACK ENERGY CORPORATION
Contact: ROBERT CHASE
E-Mail: jerrys@mackenergycorp.com

9. API Well No.
30-015-33330

3a. Address
P.O. BOX 960
ARTESIA, NM 88211-0960

3b. Phone No. (include area code)
Ph: 505.748.1288
Fx: 505.746.9539

10. Field and Pool, or Exploratory
RED LAKE SHORES;GRAYBURG

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 20 T17S R28E SWNE 2310FNL 2310FEL

11. County or Parish, and State
EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☒ Convert to Injection	☐ Plug Back	☐ 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 recomplete 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 recompletion 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.)

Mack Energy Corporation has submitted an application to the NMOCD to convert the Red Lake Sand Unit #51 into an injection well.

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #33886 verified by the BLM Well Information System
For MACK ENERGY CORPORATION, sent to the Carlsbad

Name *(Printed/Typed)* JERRY SHERRELL — Title PRODUCTION CLERK

Signature (Electronic Submission) — Date 07/30/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

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.

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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

P.O. Box 960 Artesia NM 88211-0960 (505)748-1288 Fax (505)746-9539

Mack Energy Corporation

Fax

To:	Artesia Daily Press (Barbara)	**From:**	Jerry W. Sherrell
Fax:	505-746-8795	**Pages:**	2
Phone:		**Date:**	7/29/2004
Re:	Legal Notice Publication	**CC:**	

☐ **Urgent** x **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:** Barbara, would you please bill Mack Energy Corp. for this publication. If you have any questions give me a call at 505-748-1288.

Thanks

Jerry W. Sherrell Faxed 10:00 AM 7-29-2004

Legal Notice

Mack Energy Corporation, Post Office Box 960, Artesia, NM 88211-0960, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Red Lake Sand Unit #51 and 72 of Section 20, Township 17 South, Range 28 East, NMPM, Eddy County, New Mexico. The water will be injected into the Grayburg formation at a disposal depth of 1895 feet to 1942 feet. Water will be injected at a maximum surface pressure of 360 pounds and a maximum injection rate of 3000 BWPD. Any interested party with questions or comments may contact Jerry W. Sherrell at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice. Published in the Artesia Daily Press, Artesia, New Mexico.

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	2529
CONNECTION TEL	7468795
SUBADDRESS	
CONNECTION ID	ARTESIA DAILY PR
ST. TIME	07/29 09:57
USAGE T	00'35
PGS. SENT	2
RESULT	OK

MACK Energy Corporation

P.O. Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

July 29, 2004

VIA CERTIFIED MAIL 7002 2030 0001 8347 5451
RETURN RECEIPT REQUESTED

Bunham Oil Co.
P.O. Box 257
Artesia, NM 88210

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for Authorization to Inject for the purpose of secondary recovery in the Red Lake Sand Unit #51 & 72.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert these wells to Injection wells. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell

Jerry W. Sherrell
Production Clerk

JWS

Enclosures

MACK Energy Corporation

P.O. Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

July 29, 2004

VIA CERTIFIED MAIL 7002 2030 0001 8347 5468
RETURN RECEIPT REQUESTED

Chisos Operating Inc.
PO Box 10865
Midland, TX 79702-0865

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for Authorization to Inject for the purpose of secondary recovery in the Red Lake Sand Unit #51 & 72.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert these wells to Injection wells. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell

Jerry W. Sherrell
Production Clerk

JWS

Enclosures

MACK Energy Corporation

P.O. Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

July 29, 2004

VIA CERTIFIED MAIL 7004 1160 0006 1810 7545
RETURN RECEIPT REQUESTED

JDR LTD.
811 Bullock Ave.
Artesia, NM 88210

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for Authorization to Inject for the purpose of secondary recovery in the Red Lake Sand Unit #51 & 72.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert these wells to Injection wells. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

MACK ENERGY CORPORATION

Jerry W. Sherrell

Jerry W. Sherrell
Production Clerk

JWS

Enclosures

MACK Energy Corporation

P.O. Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

July 29, 2004

VIA CERTIFIED MAIL 7002 2030 0001 8347 5475
RETURN RECEIPT REQUESTED

Mary D. Fleming Walsh
500 W. 7th St. 1007
Fort Worth, TX 76102

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporation's application for Authorization to Inject for the purpose of secondary recovery in the Red Lake Sand Unit #51 & 72.

This letter will serve as a notice that Mack Energy Corporation has requested administrative approval from the NMOCD to convert these wells to Injection wells. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

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July 29, 2004

VIA CERTIFIED MAIL 7002 2030 0001 8347 5482
RETURN RECEIPT REQUESTED

Pure Energy Group, Inc.
153 Treeline Park STE 220
San Antonio, TX 78209-1880

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July 29, 2004

VIA CERTIFIED MAIL 7004 1160 0006 1810 7538
RETURN RECEIPT REQUESTED

Yates Petroleum
105 South 4th Street
Artesia, NM 88210

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