

DATE IN 9.27.10	SUSPENSE	ENGINEER DB.	LOGGED IN 9.27.10	TYPE NSL	PTG-00 APP NO. 1027046438
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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



C06

Firecracker State #6

ADMINISTRATIVE APPLICATION CHECKLIST **30-015**

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]**

6278

[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 INTEREST ARE THE SAME

- [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.

ROBYN M. ODOM
Print or Type Name

Signature

REGULATORY ANALYST
Title

Date

(432) 685-4385
Phone Number

rodom@conchoresources.com
E-mail Address

RECEIVED OCT 2009 SEP 27 A 11:20

**Firecracker State #6
Eddy County, NM**

COG proposes to drill a **VERTICAL** SE/4, 40 acre spacing
Empire;Glorieta-Yeso oil well
TD of approximately 5250'

Location:

330' FSL & 1540' FEL Sec 14, T17S, R28E, Unit O

This well had to be drilled at a non-standard location due to a buried pipeline and a fence line too close to original location.

The plan for this well is to complete it in the Yeso formation.
We won't know the exact perms until we drill & log it, but it will be very similar to the Kool Aid State #3 (2160' FNL & 2310' FEL, Section 24, T17S, R28E, UL G) which was completed in March 2009.

The Kool Aid State #3 completion has Yeso perms from 4280' – 5070', divided into 3 perf/stimulation intervals.

1st interval: 4280' – 4480',
acidized w/ 2500 gals,
frac w/ 111,450 gal Slvr Stm gel, 140,141# White, & 33,172# CRC.

2nd interval: 4590' – 4790',
acidized w/ 2500 gals,
frac w/ 112,168 gal Slvr Stm gel, 132,583# White, & 34,283# CRC.

3rd interval: 4870' – 5070',
acidized w/ 2500 gals,
frac w/ 115,495 gal Slvr Stm gel, 143,285# White, & 36,640# CRC.

Attachment 1

Plat & map

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing COG Operating LLC owns the offset acreage.
The acreage we are encroaching is the SE/4 SE/4 of Section 14 and the
NE/4 NE/4 of Section 23.

Interests are the same.

COG Operating LLC respectfully requests permission to have this NSL approved.

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-	Pool Code 96210	Pool Name EMPIRE; GLORIETA-YESO
Property Code 37882	Property Name FIRECRACKER STATE	Well Number 6
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3633'

Surface Location

UL or lot No. 0	Section 14	Township 17-S	Range 28-E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 1540	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

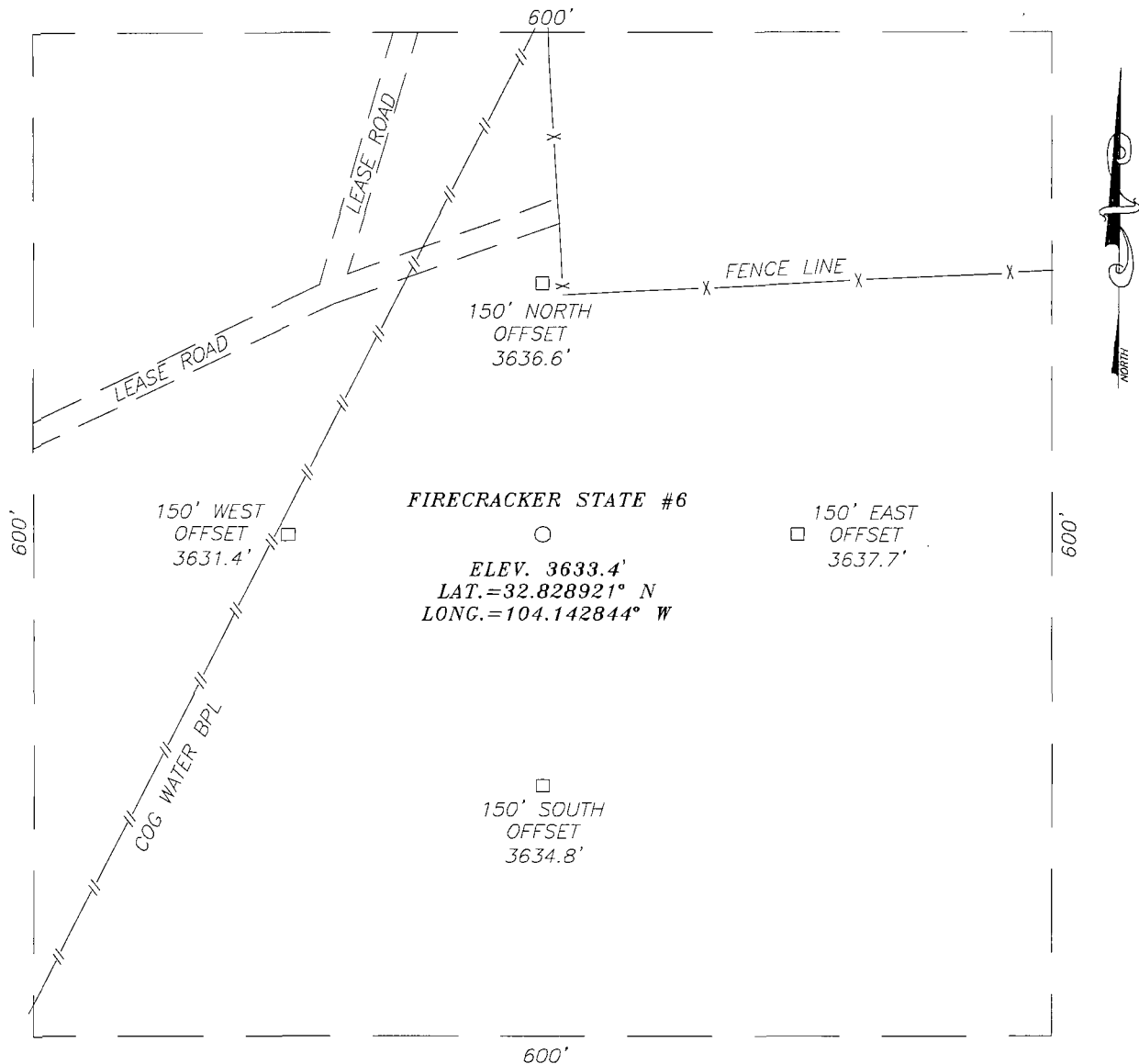
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

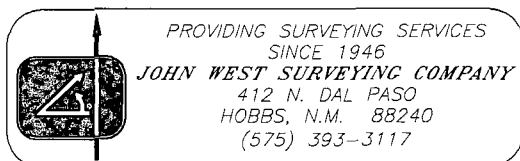
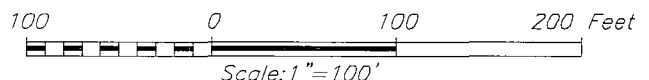
GEODETIC COORDINATES NAD 27 NME Y=665325.3 N X=558513.2 E LAT.=32.828921° N LONG.=104.142844° W 330' 1540'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Robyn Odom</i> 9/24/2010 Signature Date Robyn Odom Printed Name SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. SEPTEMBER 14, 2010 Date Surveyed LA Signature & Seal of Professional Surveyor Ronald J. Eidson 3239 10.11.1353 Certificate No. 12641 RONALD J. EIDSON 3239
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SECTION 14, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #209 (TURKEY TRACK), GO NORTH ON CO. RD. #209 APPROX. 2.0 MILES. TURN RIGHT AND GO NORTHEAST APPROX. 0.1 MILES. THE LOCATION STAKE IS APPROX. 185 FEET SOUTH OF LEASE ROAD.



COG OPERATING, LLC

FIRECRACKER STATE #6 WELL
 330 FEET FROM THE SOUTH LINE &
 1540 FEET FROM THE EAST LINE OF SECTION 14,
 TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

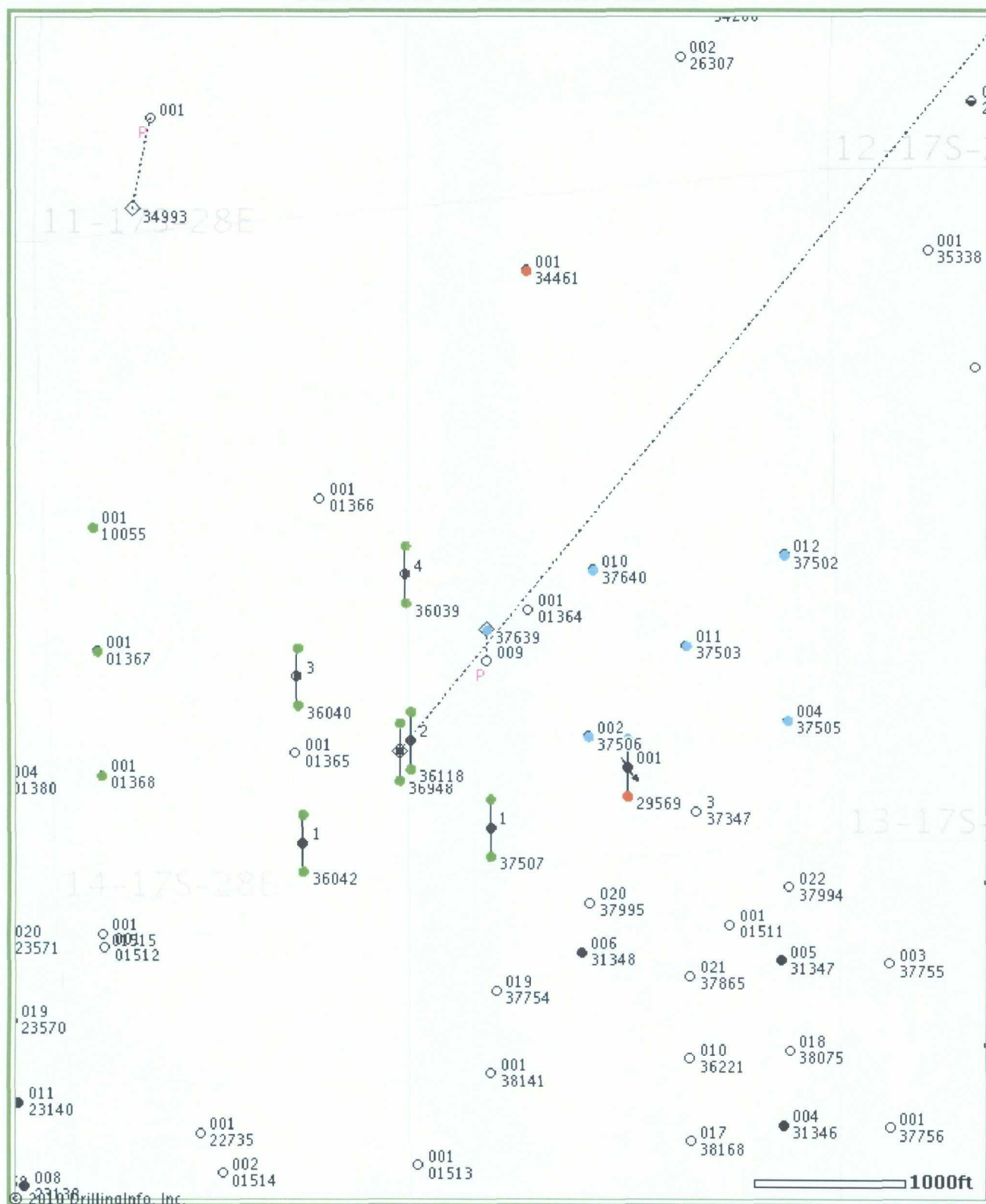
Survey Date: 9/14/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.1352	Dr By: LA
Date: 9/18/10	10111352
	Scale: 1"=100'

Offset Wells to Firecracker State #6

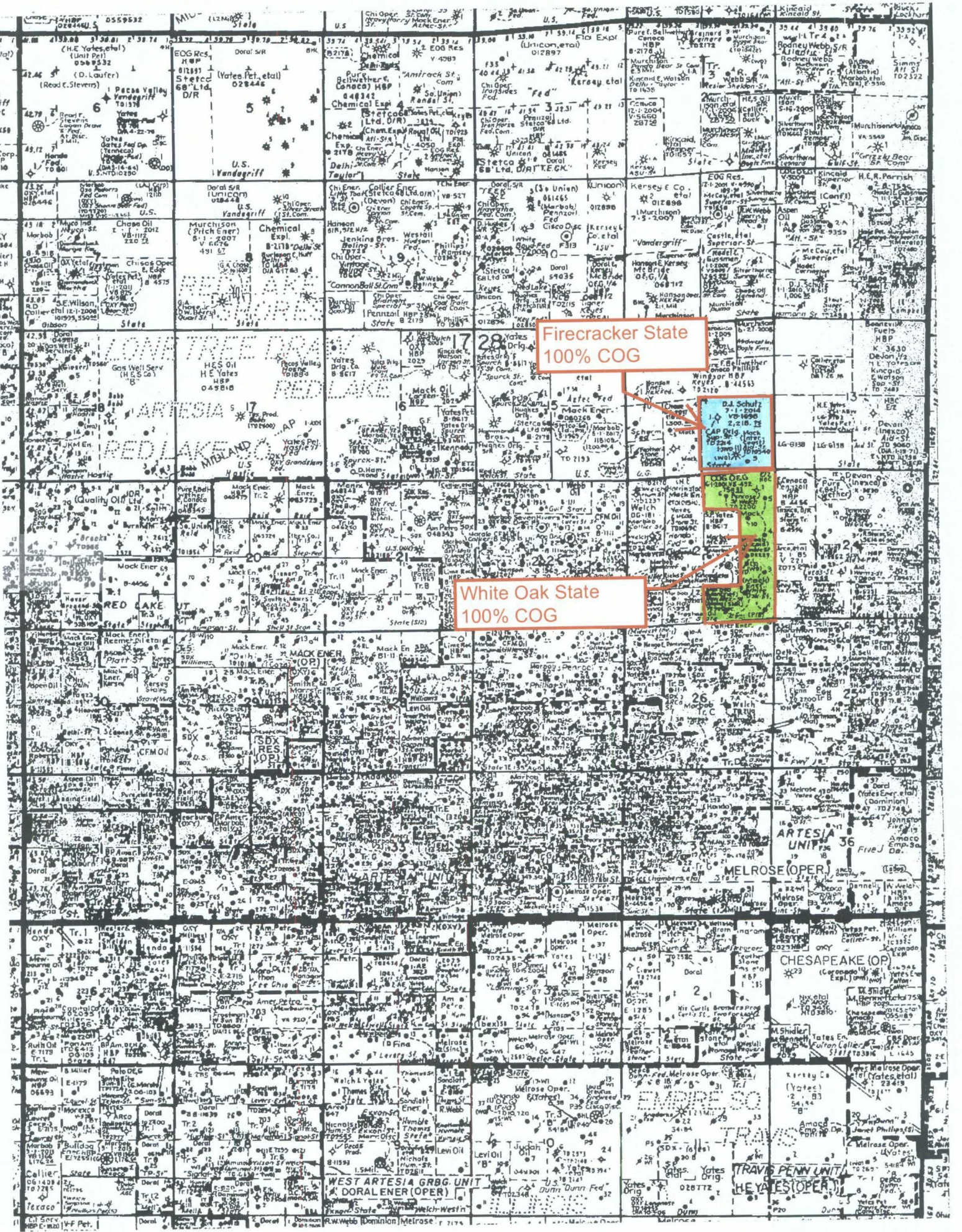
API#	Operator	Lease	Well#	County	Legal	Field Name	Reservoir Name	Total Depth	Well Type	Well Status	First Prod.	Last Prod.	Avg. (BO/D)
30-015-01368	MACK ENERGY CORP	WELCH FEDERAL	001	EDDY	S:14, T:17S, R:28E	RED LAKE	QUEEN-GRAYBURG-SA	0	PO	Pumping	Dec 1961	Nov 1995	0.07
30-015-10055	HANSON OPERATING CO INC	H AND K FEDERAL	001	EDDY	S:14, T:17S, R:28E	RED LAKE	QUEEN-GRAYBURG-SA	2,198	O	Active	Jan 1963	Nov 2001	0.50
30-015-01367	HANSON OPERATING CO INC	SCHRAM FEDERAL	001	EDDY	S:14, T:17S, R:28E	RED LAKE	QUEEN-GRAYBURG-SA	2,220	PO	Pumping	Oct 1962	Mar 2008	0.52
30-015-34461	MURCHISON OIL & GAS INC	PUMA	001	EDDY	S:14, T:17S, R:28E	EMPIRE	MORROW, SOUTH (GAS)	10,285	PG	Active	Jun 2006	Jun 2010	0.93
30-015-36039	MACK ENERGY CORP	BLACK CAT FEDERAL	4	EDDY	S:14, T:17S, R:28E	EMPIRE	YESO	5,193	O	Active Permit	Oct 2008	Jul 2010	2.81
30-015-36040	MACK ENERGY CORP	BLACK CAT FEDERAL	3	EDDY	S:14, T:17S, R:28E	EMPIRE	YESO	5,800	PO	Active Permit	Sep 2008	Jul 2010	4.65
30-015-36042	MACK ENERGY CORP	BLACK CAT FEDERAL	1	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,800	PO	Active Permit	Mar 2008	Jul 2010	6.52
30-015-36118	MACK ENERGY CORP	BLACK CAT FEDERAL	2	EDDY	S:14, T:17S, R:28E	EMPIRE	YESO	5,185	O	Active Permit	Sep 2008	Jul 2010	8.39
30-015-36042	MACK ENERGY CORP	BLACK CAT FEDERAL	1	EDDY	S:14, T:17S, R:28E	EMPIRE, YESO	YESO	5,800	PO	Active Permit	Mar 2008	Apr 2008	17.40
30-015-37507	COG OPERATING LLC	FIRECRACKER STATE	1	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,435	O	Active Permit	Jun 2010	Jul 2010	26.23
30-015-29569	COG OPERATING LLC	AID STATE 14	001	EDDY	S:14, T:17S, R:28E	SWD	CISCO	10,540	D	Salt Water Disposal	Nov 2001	Jul 2010	
30-015-29569	MACK ENERGY CORP	AID STATE 14	001	EDDY	S:14, T:17S, R:28E	AID	MORROW (GAS)	10,540	D	Salt Water Disposal			
30-015-36948	MACK ENERGY CORP	BLACK CAT FEDERAL	2	EDDY	S:14, T:17S, R:28E	EMPIRE	YESO	11,514	PO	Active Permit			
30-015-36118	MACK ENERGY CORP	BLACK CAT FEDERAL	2	EDDY	S:14, T:17S, R:28E	EMPIRE, YESO	YESO	5,185	O	Active Permit			
30-015-36040	MACK ENERGY CORP	BLACK CAT FEDERAL	3	EDDY	S:14, T:17S, R:28E	EMPIRE, YESO	YESO	5,800	PO	Active Permit			
30-015-36039	MACK ENERGY CORPORATION	BLACK CAT FEDERAL	4	EDDY	S:14, T:17S, R:28E	EMPIRE, GLORIETA-YESO	YESO	5,193	O	Active Permit			
30-015-36948	CIMAREX ENERGY CO OF COLORADO	UTAH 21 FEDERAL COM	2	EDDY	S:14, T:17S, R:28E	Unknown (ABO (O))	ABO (O)	11,514	PO	Active Permit			
30-015-37506	COG OPERATING LLC	FIRECRACKER STATE	002	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit			

30-015-37505	COG OPERATING LLC	FIRECRACKER STATE	004	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit		
30-015-37503	COG OPERATING LLC	FIRECRACKER STATE	011	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit		
30-015-37502	COG OPERATING LLC	FIRECRACKER STATE	012	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit		
30-015-37639	COG OPERATING LLC	FIRECRACKER STATE	009	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit		
30-015-37640	COG OPERATING LLC	FIRECRACKER STATE	010	EDDY	S:14, T:17S, R:28E	EMPIRE (YESO)	YESO	5,400	PO	Active Permit		
30-015-37507	COG OPERATING LLC	FIRECRACKER STATE	1	EDDY	S:14, T:17S, R:28E	EMPIRE; GLORIETA-YESO		5,435	O	Active Permit		

Offset Wells to Firecracker State #6



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Firecracker State
100% COG

White Oak State
100% COG

ARIESIA
UNIT 36
MELROSE (OPER.)
CHESAPEAKE (OP)

WEST ARTESIA GRBG UNIT
DORALENER (OPER)

TRAVIS PENN UNIT
HE YATES (OPER)