

DATE IN 8/8/07	SUSPENSE	BROOKS ENGINEER	8/8/07 LOGGED IN	TYPE NSL	APP NO. PTD50722051675
----------------	----------	--------------------	---------------------	----------	------------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1207 N. 8th St. Santa Fe, NM 87505



COG
State S-19 #32
5672

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.

PHYLLIS A. EDWARDS
Print or Type Name

Signature

REGULATORY ANALYST
Title

8/7/07
Date

432-685-4340

pedwards@conchoresources.com
e-mail Address

**State S-19 #32
Eddy County, NM**

COG proposes to drill a vertical South $\frac{1}{2}$, 40 acre spacing
Empire; Glorieta-Yeso oil well
TD of approximately 5600'

Location:
330' FSL & 2070' FWL Sec 19, T17S, R29E, Unit N

This well had to be drilled at a non-standard location due to pipeline constrictions
and Lot 4, a 27.50 acre spacing.

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 State S-19 #31 (1650' FSL & 330' FWL, Lot 3) which was completed in July
2007.

The State S-19 #31 completion broke the Yeso up into 2 perf/stimulation
intervals. At this time, we assume the State S-19 #31 should be very similar.

State S-19 #31 has perms from: 4349' – 5068' overall, but broken up into 2
separate intervals, with 2 separate fracs.

1st interval: 4349' – 4659',
acidized w/ 2500 gals acid,
frac'd w/ 95,096 gals gel, 8,011 # LiteProp, & 76,756# 16/30 sand.

2nd interval: 4788' – 5068',
acidized w/ 2000 gals acid,
frac'd w/ 76,994 gals gel, 8000# LiteProp, & 50,620# 16/30 sand.

Attachment 1

Permit, plat, & plat showing pipeline

Attachment 2

Map & legend of offset wells.

Attachment 3

Updated land plat showing that COG Operating LLC owns offset acreage.
The acreage we are encroaching on is the SW/4 of the SE/4 of Section 19.
COG owns all of the S/2 of Section 19.
Working interests are common.

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

District II
1301 W. Grand Ave., Artesia, NM 88210
Phone:(505) 748-1283 Fax:(505) 748-9720

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

Form C-101
Permit 57691

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COG OPERATING LLC 550 W TEXAS MIDLAND, TX 79701		2. OGRID Number 229137
4. Property Code 302569		3. API Number 30-015-35743
5. Property Name STATE S-19		6. Well No. 032

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	19	17S	29E	N	330	S	2070	W	EDDY

8. Pool Information

EMPIRE; GLORIETA-YESO	96210
-----------------------	-------

Additional Well Information

9. Work Type New Well	10. Well Type OIL	11. Cable/Rotary	12. Lease Type State	13. Ground Level Elevation 3644
14. Multiple N	15. Proposed Depth 5600	16. Formation Yeso Formation	17. Contractor	18. Spud Date 7/25/2007
Depth to Ground water 115		Distance from nearest fresh water well > 1000		Distance to nearest surface water > 1000
Pit: Liner: Synthetic ☒ 12 _____ mils thick Clay ☐ Pit Volume: 3000 _____ bbls Drilling Method: Closed Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☒				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	300	300	0
Int1	12.25	8.625	24	800	450	0
Prod	7.875	5.5	17	5600	1100	0

Casing/Cement Program: Additional Comments

COG proposes to drill a 17 1/2 hole to 300', run 13 3/8 casing and cement. Drill a 12 1/4 hole to 800', run 8 5/8 casing and cement. Drill a 7 7/8 hole to 5600 test yeso formation, run 5 1/2 casing and cement. Note: On production string a fluid caliper will be run and will figure cement with 25% excess, attempt to circulate.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
DoubleRam	2000	2000	

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
 I further certify that the drilling pit will be constructed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Printed Name: Electronically filed by Diane Kuykendall

Title: Regulatory Analyst

Email Address: dkuykendall@conchoresources.com

Date: 7/19/2007

Phone: 432-685-4372

OIL CONSERVATION DIVISION

Approved By: Bryan Arrant

Title: Geologist

Approved Date: 8/4/2007

Expiration Date: 8/4/2008

Conditions of Approval Attached

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

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

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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 30-015-35743	Pool Code 96210	Pool Name EMPIRE; GLORIETA YESO
Property Code 302569	Property Name STATE S-19	Well Number 32
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3644'

Surface Location

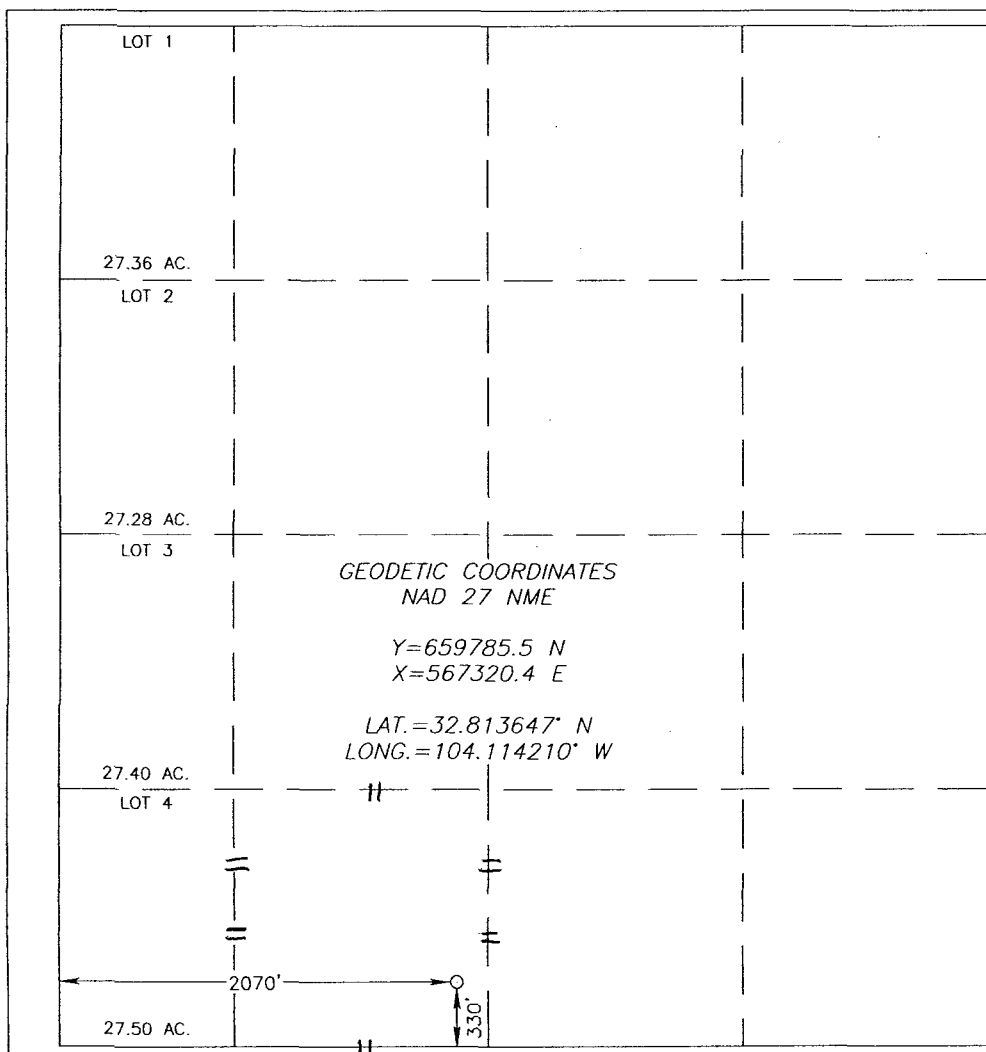
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	19	17-S	29-E		330	SOUTH	2070	WEST	EDDY

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

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
------------------------------	-----------------	--------------------	-----------

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



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.

Phyllis A. Edwards 8/17/07
Signature Date
PHYLLIS A. EDWARDS
Printed Name

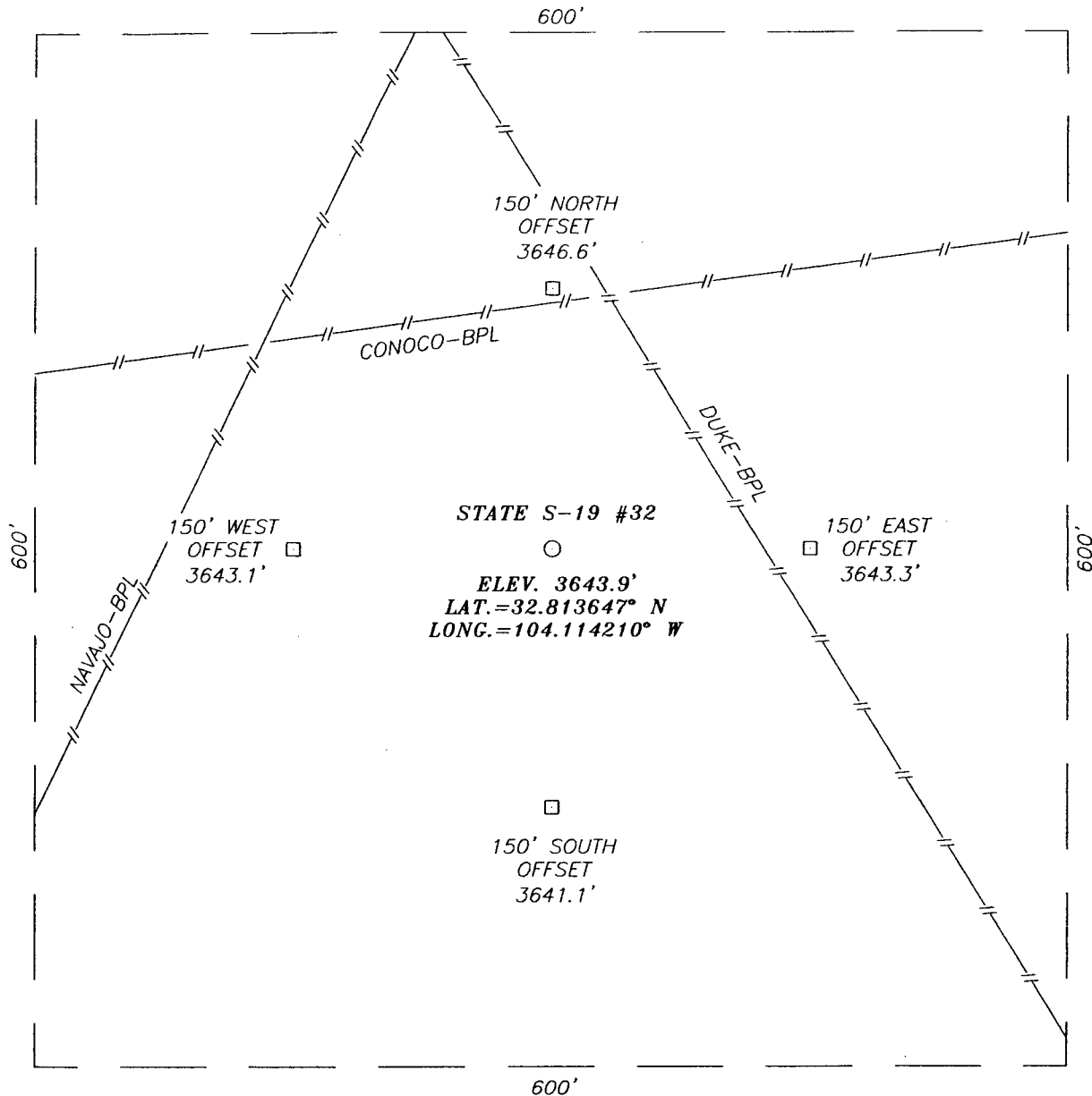
SURVEYOR CERTIFICATION

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.

RONALD J. EIDSON
Professional Surveyor
3239
7/18/07

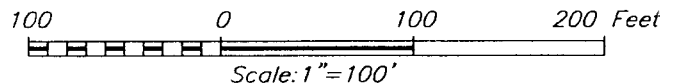
Certificate No. GARY EIDSON 12641
RONALD J. EIDSON 3239

SECTION 19, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM INTERSECTION OF U.S. HWY. 82 AND CO. RD. #211 (OLD LOCO RD.), GO SOUTHWEST ON U.S. HWY. #82 APPROX. 0.9 MILE. TURN RIGHT AND GO NORTH ON LEASE ROAD APPROX. .15 MILES. VEER RIGHT AND GO NORTHEAST APPROX. .15 MILES. TURN LEFT AND GO WEST APPROX. 0.1 MILE TO EXIST. STATE S-19 #37 WELL. THIS LOCATION IS APPROX. 621 FEET WEST.

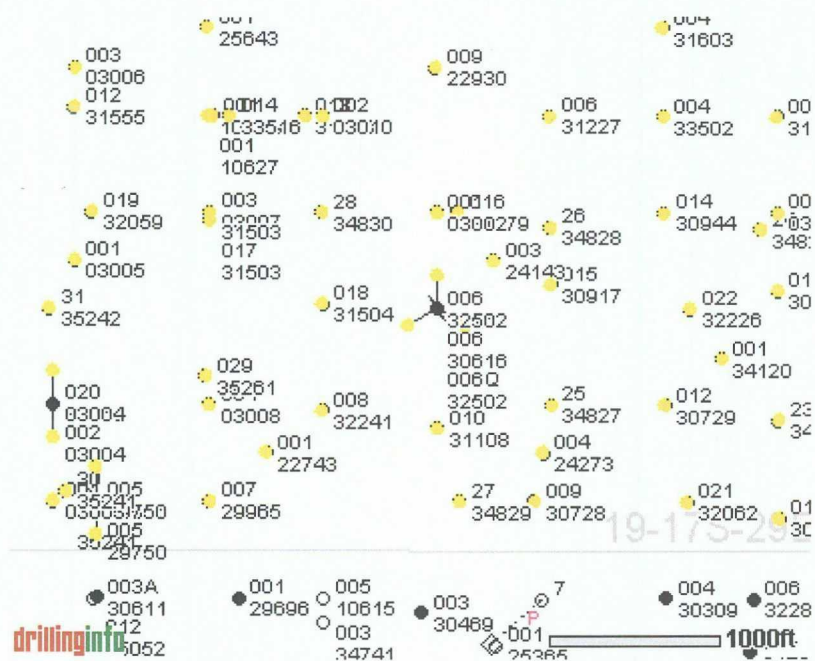


COG OPERATING, LLC

STATE S-19 #32 WELL
 LOCATED 330 FEET FROM THE SOUTH LINE
 AND 2070 FEET FROM THE WEST LINE OF SECTION 19,
 TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 7/2/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.0803	Dr By: AR
Date: 7/13/07	Scale: 1"=100'

PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

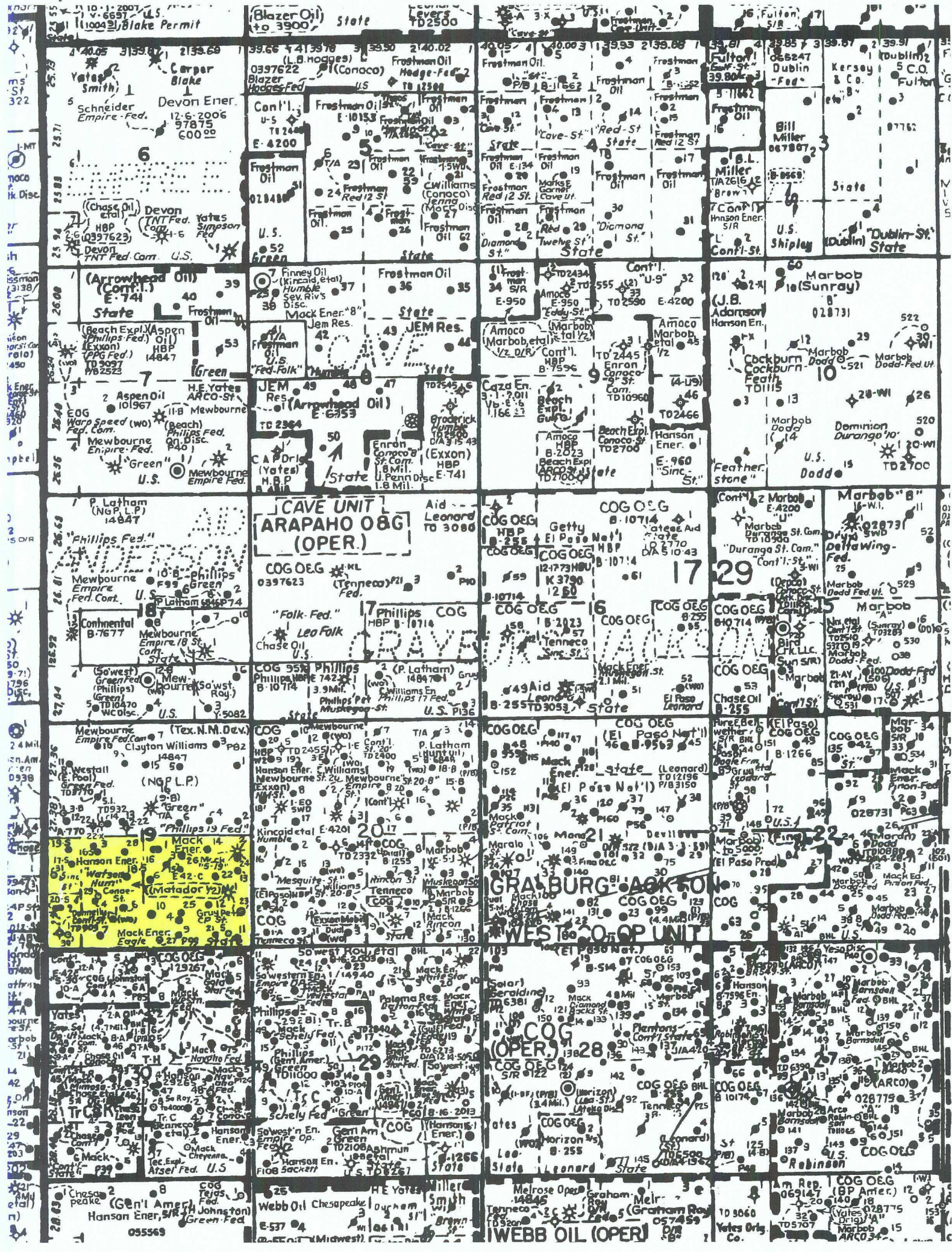


Set	AP#	Company	Current Lease Name	Well Name	Well#	County	Legal	Depth	Status	Welltype	Sand Date
▶	30-015-03001	MACK ENERGY CORP	STATE S- 19	STATE S- 19 002	002	EDDY	S:19, T:17S, R:29E	2450	Pumping	D	
▶	30-015-03005	HANSON ENERGY	SINCLAIR A STATE	SINCLAIR A STATE 001	001	EDDY	S:19, T:17S, R:29E	0	Pumping	O	
▶	30-015-03007	HANSON ENERGY	HUMBLE STATE	HUMBLE STATE 003	003	EDDY	S:19, T:17S, R:29E	0	Active	O	
▶	30-015-03008	HANSON ENERGY	HUMBLE STATE	HUMBLE STATE 004	004	EDDY	S:19, T:17S, R:29E	0	Active	O	
▶	30-015-30615	MACK ENERGY CORP	STATE S- 19	STATE S- 19 005	005	EDDY	S:19, T:17S, R:29E		Unknown	PO	11/14/1991
▶	30-015-30728	COG OPERATING LLC	STATE S- 19	STATE S- 19 009	009	EDDY	S:19, T:17S, R:29E	4233	Pumping	O	02/13/1999
▶	30-015-30729	COG OPERATING LLC	STATE S- 19	STATE S- 19 012	012	EDDY	S:19, T:17S, R:29E	4225	Pumping	O	02/20/1999
▶	30-015-29965	COG OPERATING LLC	STATE S- 19	STATE S- 19 007	007	EDDY	S:19, T:17S, R:29E	4270	Pumping	O	12/14/1997
▶	30-015-29750	MACK ENERGY CORP	STATE S- 19	STATE S- 19 005	005	EDDY	S:19, T:17S, R:29E		Cancelled	X	
▶	30-015-29751	MACK ENERGY CORP	STATE S- 19	STATE S- 19 006	006	EDDY	S:19, T:17S, R:29E		Cancelled	X	
▶	30-015-25643	RAY WESTALL	GREEN FEDERAL	GREEN FEDERAL 001	001	EDDY	S:19, T:17S, R:29E	0	Pumping	PO	07/31/1986
▶	30-015-24143	MACK ENERGY CORP	STATE S- 19	STATE S- 19 003	003	EDDY	S:19, T:17S, R:29E		Pumping	O	
▶	30-015-24273	COG OPERATING LLC	STATE S- 19	STATE S- 19 004	004	EDDY	S:19, T:17S, R:29E		Active	O	
▶	30-015-22743	COG OPERATING LLC	STATE S- 19	STATE S- 19 001	001	EDDY	S:19, T:17S, R:29E		Active	O	11/06/1994

▶	☑	<u>30-015-22930</u>	CLAYTON WILLIAMS ENERGY INC	phillips 19 federal #016	GREEN B FEDERAL	009	EDDY	S:19, T:17S, R:29E	10870	Plugged and Abandoned	09/22/1998
▶	☑	<u>30-015-30915</u>	COG OPERATING LLC	STATE S-19	STATE S-19 011	011	EDDY	S:19, T:17S, R:29E	4221	Pumping	06/26/2000
▶	☑	<u>30-015-30916</u>	COG OPERATING LLC	STATE S-19	STATE S-19 013	013	EDDY	S:19, T:17S, R:29E	4467	Pumping	06/11/2000
▶	☑	<u>30-015-30917</u>	COG OPERATING LLC	STATE S-19	STATE S-19 015	015	EDDY	S:19, T:17S, R:29E	4402	Pumping	02/19/2000
▶	☑	<u>30-015-30944</u>	COG OPERATING LLC	STATE S-19	STATE S-19 014	014	EDDY	S:19, T:17S, R:29E	4411	Pumping	03/24/2000
▶	☑	<u>30-015-31108</u>	COG OPERATING LLC	STATE S-19	STATE S-19 010	010	EDDY	S:19, T:17S, R:29E	4440	Pumping	08/03/2000
▶	☑	<u>30-015-30616</u>	MAC ENERGY CORP	STATE S-19	STATE S-19 006	006	EDDY	S:19, T:17S, R:29E		Active	
▶	☑	<u>30-015-31227</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL	PHILLIPS 19 006	006	EDDY	S:19, T:17S, R:29E	4545	Pumping	08/28/2000
▶	☑	<u>30-015-31225</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL	PHILLIPS 19 002	002	EDDY	S:19, T:17S, R:29E	4556	Pumping	09/17/2000
▶	☑	<u>30-015-31279</u>	COG OPERATING LLC	STATE S-19	STATE S-19 016	016	EDDY	S:19, T:17S, R:29E	4465	Pumping	09/30/2000
▶	☑	<u>30-015-31503</u>	COG OPERATING LLC	STATE S-19	STATE S-19 017	017	EDDY	S:19, T:17S, R:29E	4245	Pumping	03/28/2001
▶	☑	<u>30-015-31504</u>	COG OPERATING LLC	STATE S-19	STATE S-19 018	018	EDDY	S:19, T:17S, R:29E	4255	Pumping	01/04/2001
▶	☑	<u>30-015-31603</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL	PHILLIPS 19 004	004	EDDY	S:19, T:17S, R:29E	5000	Active	
▶	☑	<u>30-015-31633</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL	PHILLIPS 19 013	EDDY	S:19, T:17S, R:29E	4500	Pumping		03/14/2001

013	PHILLIPS	CLAYTON WILLIAMS ENERGY INC	30-015-31555	COG OPERATING LLC	STATE S-19	STATE S-19 012	012	EDDY	S:19, T:17S, R:29E	4500	Pumping	O	02/21/2001
020	EDDY	S:19, T:17S, R:29E	4265	Pumping	O	12/19/2001							
019	EDDY	S:19, T:17S, R:29E	4225	Pumping	O	11/08/2001							
021	EDDY	S:19, T:17S, R:29E	4375	Pumping	O	02/23/2002							
001	EDDY	S:19, T:17S, R:29E	Active	O									
003	EDDY	S:19, T:17S, R:29E	Unknown	PO									
001	EDDY	S:19, T:17S, R:29E	Unknown	PO									
001	EDDY	S:19, T:17S, R:29E	Unknown	PO									
002	EDDY	S:19, T:17S, R:29E	Active	O									
002	EDDY	S:19, T:17S, R:29E	Unknown	PO									
001	EDDY	S:19, T:17S, R:29E	Unknown	PO									
008	EDDY	S:19, T:17S, R:29E	4350	Pumping	O	06/10/2002							
022	EDDY	S:19, T:17S, R:29E	4430	Pumping	O	05/25/2002							
006Q	EDDY	S:19, T:17S, R:29E	4230	Active	O	12/03/2002							

▶		<u>30-015-33516</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL 014	014	EDDY	S:19, T:17S, R:29E	5000	Active	O	
▶		<u>30-015-33502</u>	CLAYTON WILLIAMS ENERGY INC	PHILLIPS 19 19 FEDERAL 004	004	EDDY	S:19, T:17S, R:29E	4200	Active	O	
▶		<u>30-015-34120</u>	CIMAREX ENERGY CO. OF COLORADO	CP STATE COM	CP STATE COM 001	001	EDDY	S:19, T:17S, R:29E	10971	Active Permit	PG
▶		<u>30-015-34825</u>	COG OPERATING LLC	STATE S-19	STATE S-19 23	23	EDDY	S:19, T:17S, R:29E	5410	Active Permit	O
▶		<u>30-015-34826</u>	COG OPERATING LLC	STATE S-19	STATE S-19	24	EDDY	S:19, T:17S, R:29E	5475	Active Permit	O
▶		<u>30-015-34827</u>	COG OPERATING LLC	STATE S-19	STATE S-19 25	25	EDDY	S:19, T:17S, R:29E	5460	Active Permit	O
▶		<u>30-015-34828</u>	COG OPERATING LLC	STATE S-19	STATE S-19 26	26	EDDY	S:19, T:17S, R:29E	5435	Active Permit	O
▶		<u>30-015-34829</u>	COG OPERATING LLC	STATE S-19	STATE S-19	27	EDDY	S:19, T:17S, R:29E	5460	Active Permit	O
▶		<u>30-015-34830</u>	COG OPERATING LLC	STATE S-19	STATE S-19 28	28	EDDY	S:19, T:17S, R:29E	5480	Active Permit	O
▶		<u>30-015-35242</u>	COG OPERATING LLC	STATE S-19	STATE S-19	31	EDDY	S:19, T:17S, R:29E	5500	Active Permit	PO
▶		<u>30-015-35241</u>	COG OPERATING LLC	STATE S-19		30	EDDY	S:19, T:17S, R:29E	5500	Active Permit	PO
▶		<u>30-015-35261</u>	COG OPERATING LLC	STATE S-19	STATE S-19 029	029	EDDY	S:19, T:17S, R:29E	5500	Active	PO



Well File Search - Select API Number to View

Please select the API Number you wish to view from the list below by clicking the radio button next to the API Number. Then click the "Continue" button to see the thumbnails for the API you selected.

The search results are broken out by groups of 25 on each page. Switching pages can be done by clicking the "Next 25" or "Previous 25" links.

6 Records Found

Displaying Screen 1 of 1

API Number	ULSTR	Footages	
☐ 3001503008	N -19-17S-29E	990 FSL & 1236 FWL	<i>AID Yates 7R</i>
Well Name & Number: HUMBLE STATE No. 004			
Operator: HANSON ENERGY			
☐ 3001522743	N -19-17S-29E	660 FSL & 1571 FWL	<i>Empire Albo</i>
Well Name & Number: STATE S-19 No. 001			
Operator: COG OPERATING LLC			
☐ 3001529965	N -19-17S-29E	330 FSL & 1242 FWL	<i>Empire Empire LK</i>
Well Name & Number: STATE S-19 No. 007			
Operator: COG OPERATING LLC			
☐ 3001532241	N -19-17S-29E	950 FSL & 1895 FWL	<i>Id</i>
Well Name & Number: STATE S-19 No. 008			
Operator: COG OPERATING LLC			
☐ 3001535261	N -19-17S-29E	1190 FSL & 1242 FWL	<i>Id</i>
Well Name & Number: STATE S-19 No. 029			
Operator: COG OPERATING LLC			
☐ 3001535743	N -19-17S-29E	330 FSL & 2070 FWL	<i>Id</i>
Well Name & Number: STATE S-19 No. 032			
Operator: COG OPERATING LLC			

6 Records Found

Displaying Screen 1 of 1