

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2008

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

Submit to appropriate District Office

☐ AMENDED REPORT

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
³ Property Code 38594	⁴ Property Name EMPIRE STATE SWD "9"	⁵ API Number 30 - 015 - 38972
⁶ Well No. #4		
⁹ Proposed Pool 1 SWD; CISCO - 96099		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	17S	29E	A	660	N	540	E	EDDY

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code NEW WELL	¹² Well Type Code SWD	¹³ Cable/Rotary	¹⁴ Lease Type Code STATE	¹⁵ Ground Level Elevation 3582'
¹⁶ Multiple N	¹⁷ Proposed Depth 8350'	¹⁸ Formation CISCO	¹⁹ Contractor	²⁰ Spud Date 5/31/2011

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
24	20	94	40	400	0
17.5	13.375	48	200	465	0
12.25	9.625	36	2400	665	0
8.75	7	26	8350	1160	0

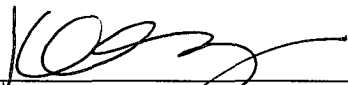
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

COG proposes to drill a 24" hole to 40' w/fr wtr mud system, set 20" conductor casing and cement to surf. Drill an 17.5" hole to 200' w/fr wtr mud system, wt 8.6-9.2, vis 32-34, set 13-3/8" casing & cement to surf. Drill a 12-1/4" hole to 2400' w/cut br mud system, wt 9.8-10.1, vis 28-30, set 9-5/8" casing & cement to surf. Drill 8-3/4" hole to 8350' w/cut br mud system, wt 8.7-9.3, vis 28, set 7" casing & cement to surface. A DV tool will be set @ +/-7000'.

RECEIVED
APR 11 2011
NMOCD ARTESIA

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:



Printed name: KELLY J. HOLLY

Title: PERMITTING TECH

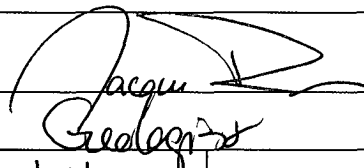
E-mail Address: kholly@conchoresources.com

Date: 4/7/2011

Phone: 432-312-0447

OIL CONSERVATION DIVISION

Approved by:



Title:

Approval Date:

4/21/2011

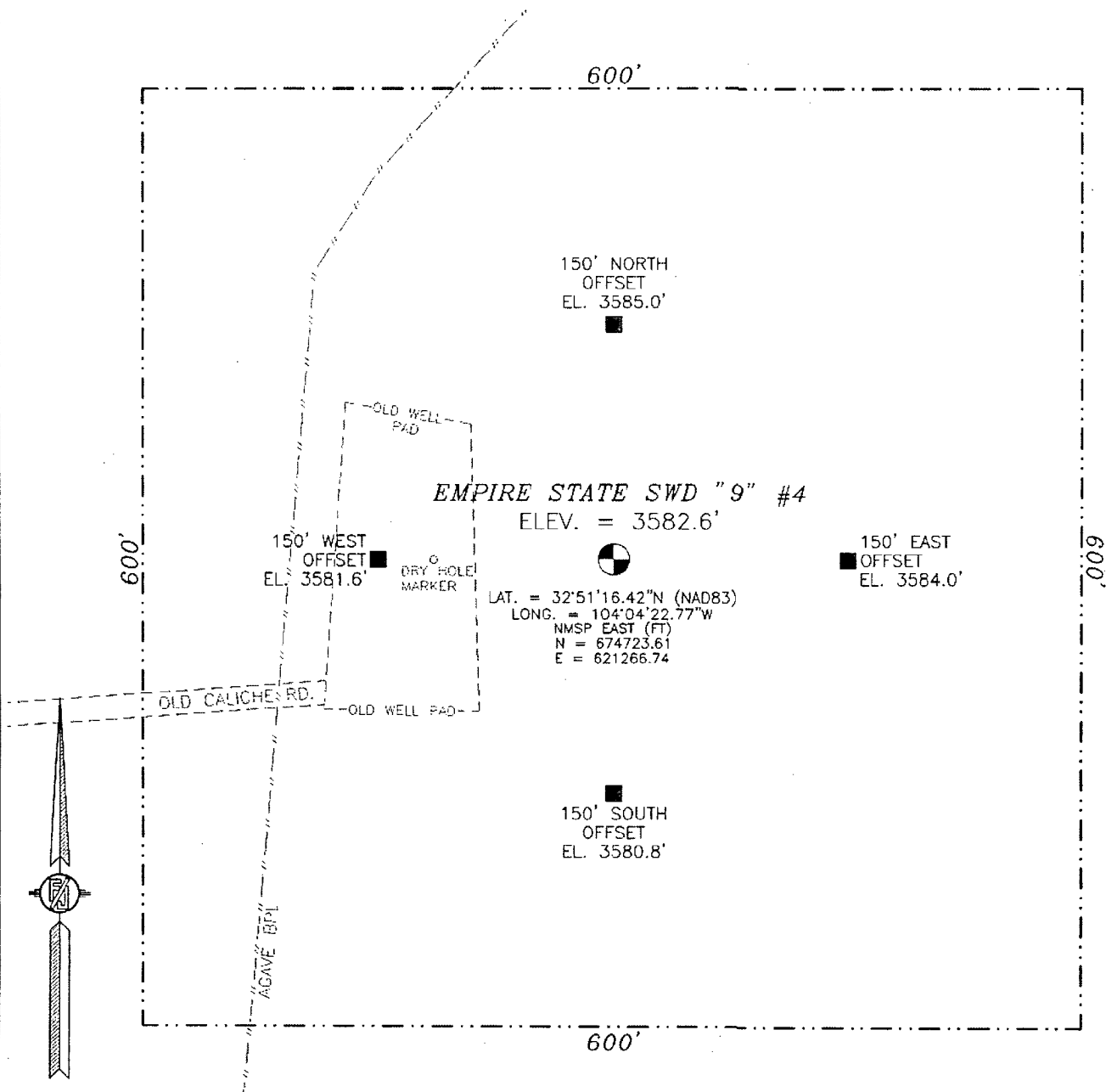
Expiration Date:

4/21/2013

Conditions of Approval Attached ☐

10

SECTION 9, TOWNSHIP 17 SOUTH; RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



Age Group	Percentage
18-24	180
25-34	150
35-44	120
45-54	100
55-64	80
65-74	60
75-84	40
85+	20

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HWY 82 AND CR 214 (BARNAVILL DRAW) GO NORTH ON
CR 214 2.4 MILES. LOCATION IS ON RIGHT (EAST) APPROX. 400'

COG OPERATING, LLC

EMPIRE STATE SWD "9" #4

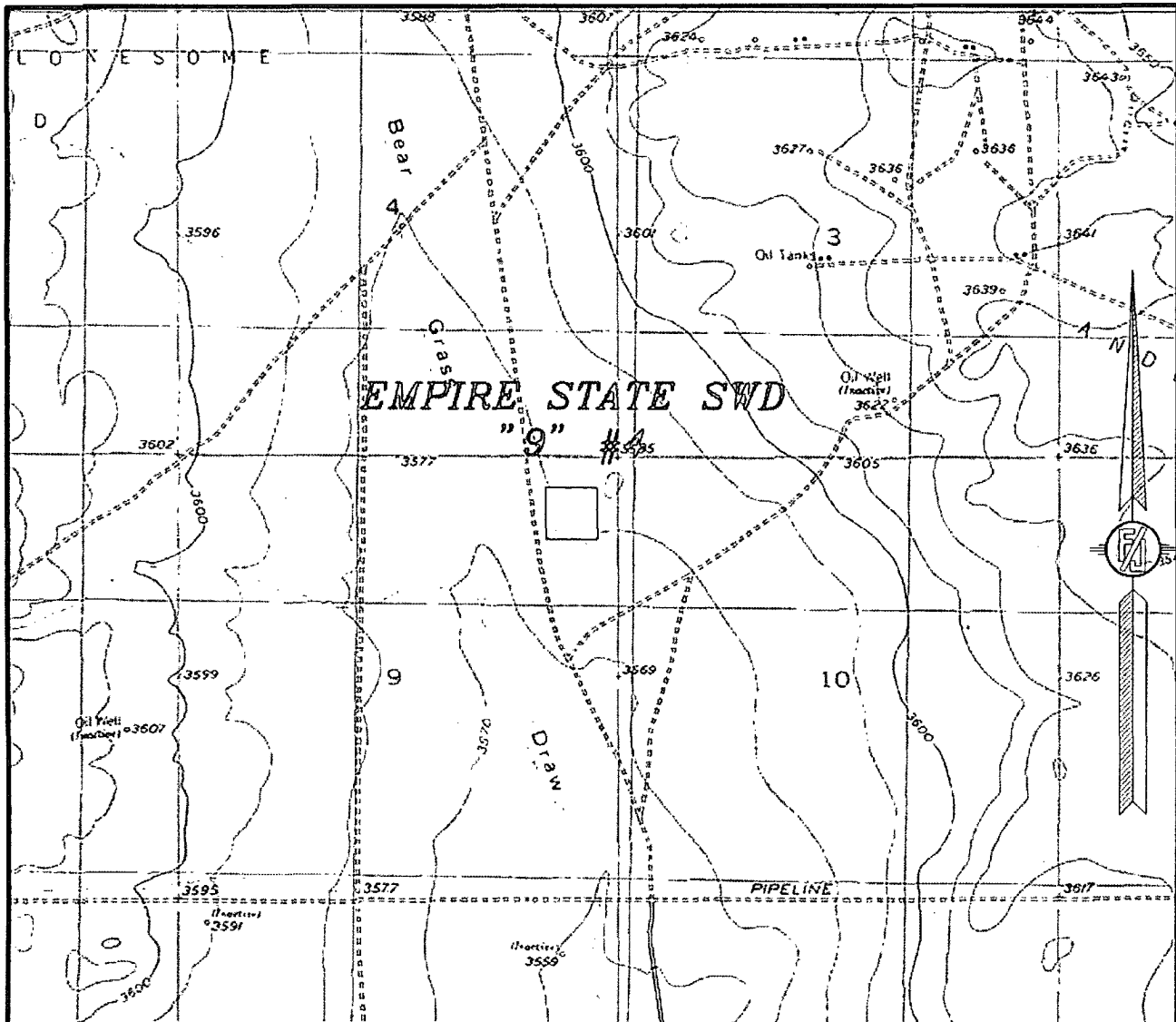
LOCATED 660 FT. FROM THE NORTH LINE
AND 540 FT. FROM THE EAST LINE OF
SECTION 9, TOWNSHIP 17 SOUTH,
RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 887-5830

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
RED LAKE SE.

NOT TO SCALE

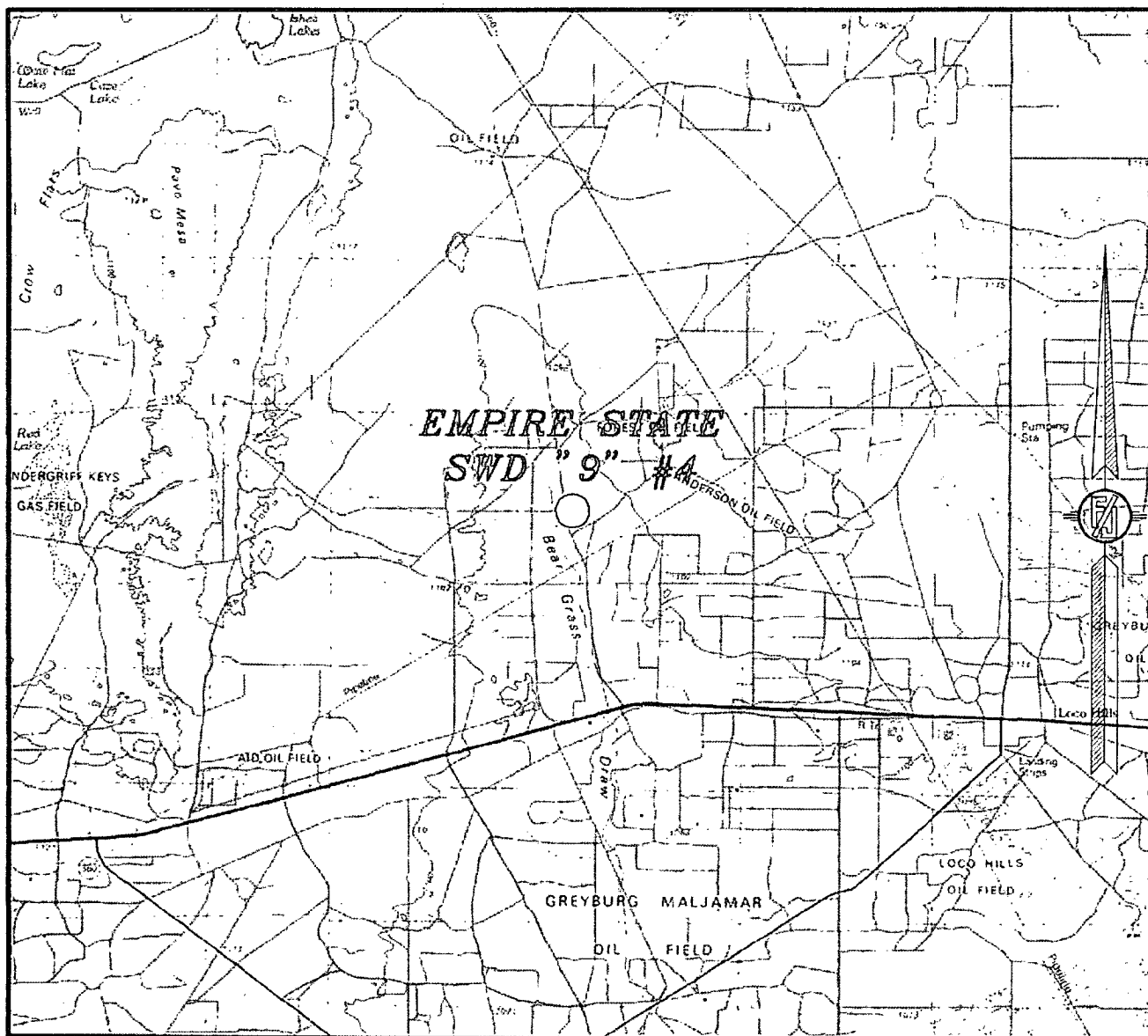
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 EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 401 SOUTH CANAL
(575) 587-5830 CARLSBAD, NEW MEXICO

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

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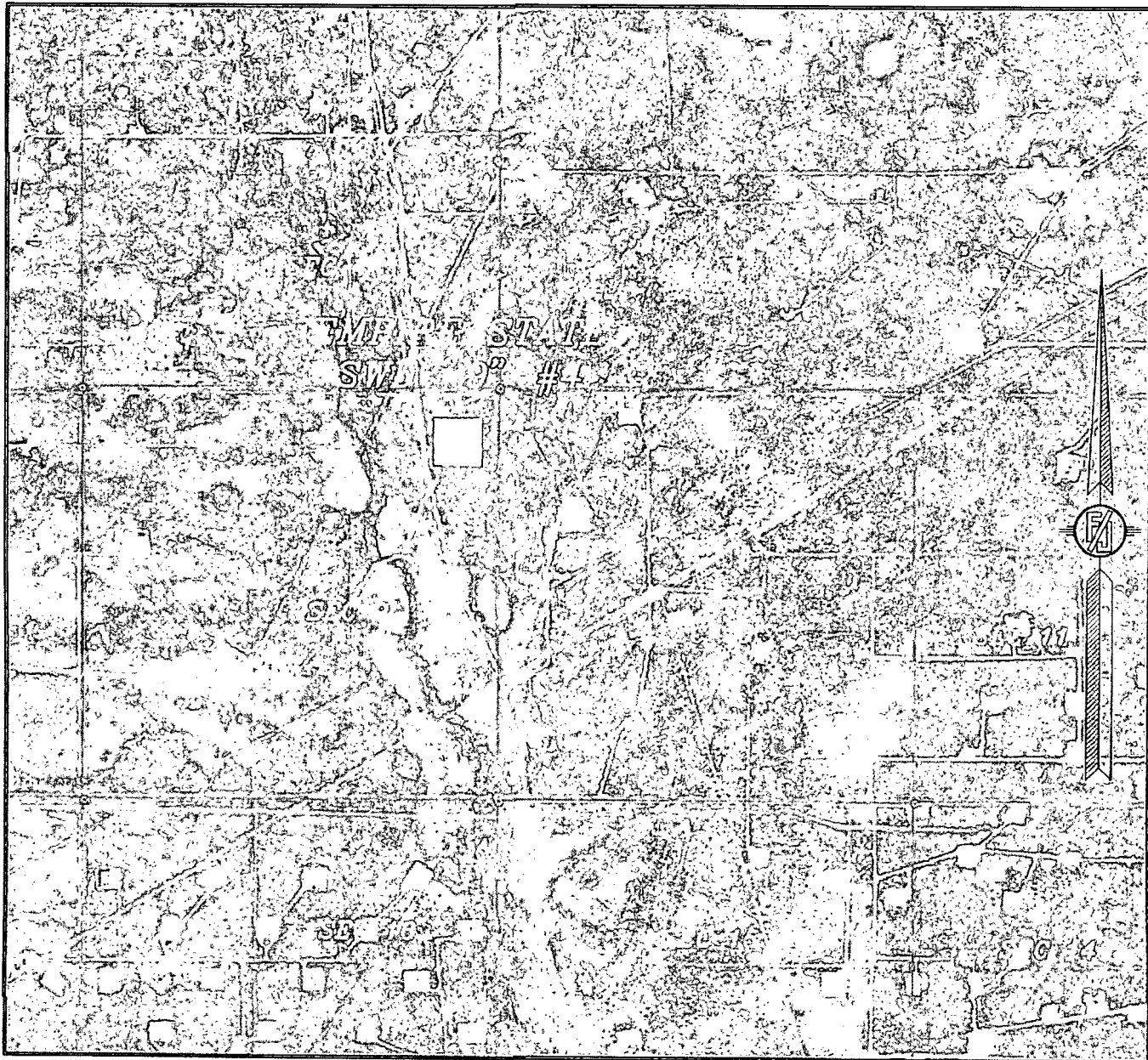
OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 301 SOUTH CANAL (505) 887-5810 CARLSBAD, NEW MEXICO

SECTION 9, TOWNSHIP 17 SOUTH, RANGE 29 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

COG OPERATING, LLC
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OCTOBER 29, 2010

SURVEY NO. 295 - R1

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5530

Permit Comments

Operator: COG OPERATING LLC , 229137

Well: EMPIRE STATE SWD "9" #004

API:

Created By	Comment	Comment Date
kholly1	H2S concentrations of wells in this area from surface to TD are low enough that a contingency plan is not required.	3/23/2011