

DISTRICT I
1825 N. FRANCH DR., BOBBS, NM 88240
Phone: (575) 393-0101 Fax: (575) 393-0720

DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6170 Fax: (505) 334-6170

DISTRICT IV
1820 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3400 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 41915	Pool Code 5535	Pool Name Berry; Bone Spring, North
Property Code 39446	Property Name BEN LILLY 2 STATE COM	Well Number 5H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3783.9'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	21-S	33-E		190	SOUTH	600	EAST	LEA

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
1	2	21-S	33-E		330	NORTH	660	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240.23			

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 undivided 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.

Signature: Melanie J Parker Date: 5/5/14

Printed Name: Melanie J Parker

E-mail Address: mparker@concho.com

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.

APRIL 30, 2014

Date of Survey

Signature & Seal of Professional Surveyor

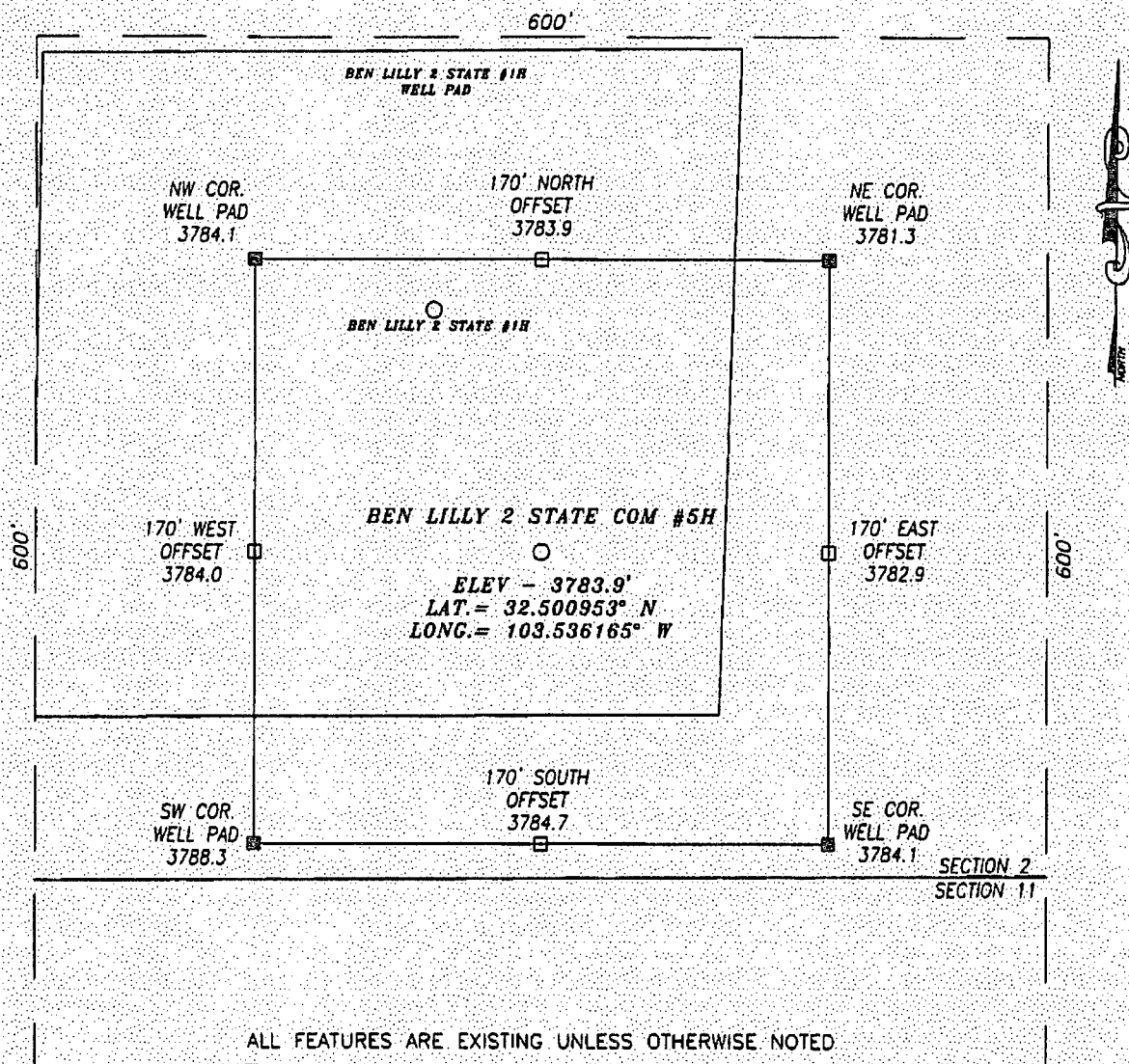
Chad L. HARCROW 5/5/14

Certificate No. CHAD HARCROW 17777

W.O. # 14-329 DRAWN BY: AM

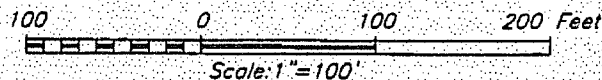
JUN 7 2014

SECTION 2, TOWNSHIP 21 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

HEADING EAST ON HWY. 176 TURN RIGHT (SOUTH) ONTO CALICHE ROAD APPROX. .1 MILES PAST MILEMARKER 9. GO SOUTH APPROX. 1.5 MILES; THEN ROAD TURNS SLIGHT LEFT (SOUTH SOUTHEAST) AND GO APPROX. .4 MILES; THEN ROAD TURNS LEFT (EAST) AND GO APPROX. .3 MILES; THEN ROAD TURNS RIGHT (NORTHEAST) AND GO .7 MILES; THEN ROAD TURNS RIGHT (EAST) AND FOLLOW APPROX. 1.4 MILES TO EXISTING BEN LILLY 2 STATE #1H PAD AND PROPOSED WELL IS ON SOUTHEASTERLY PORTION OF PAD.



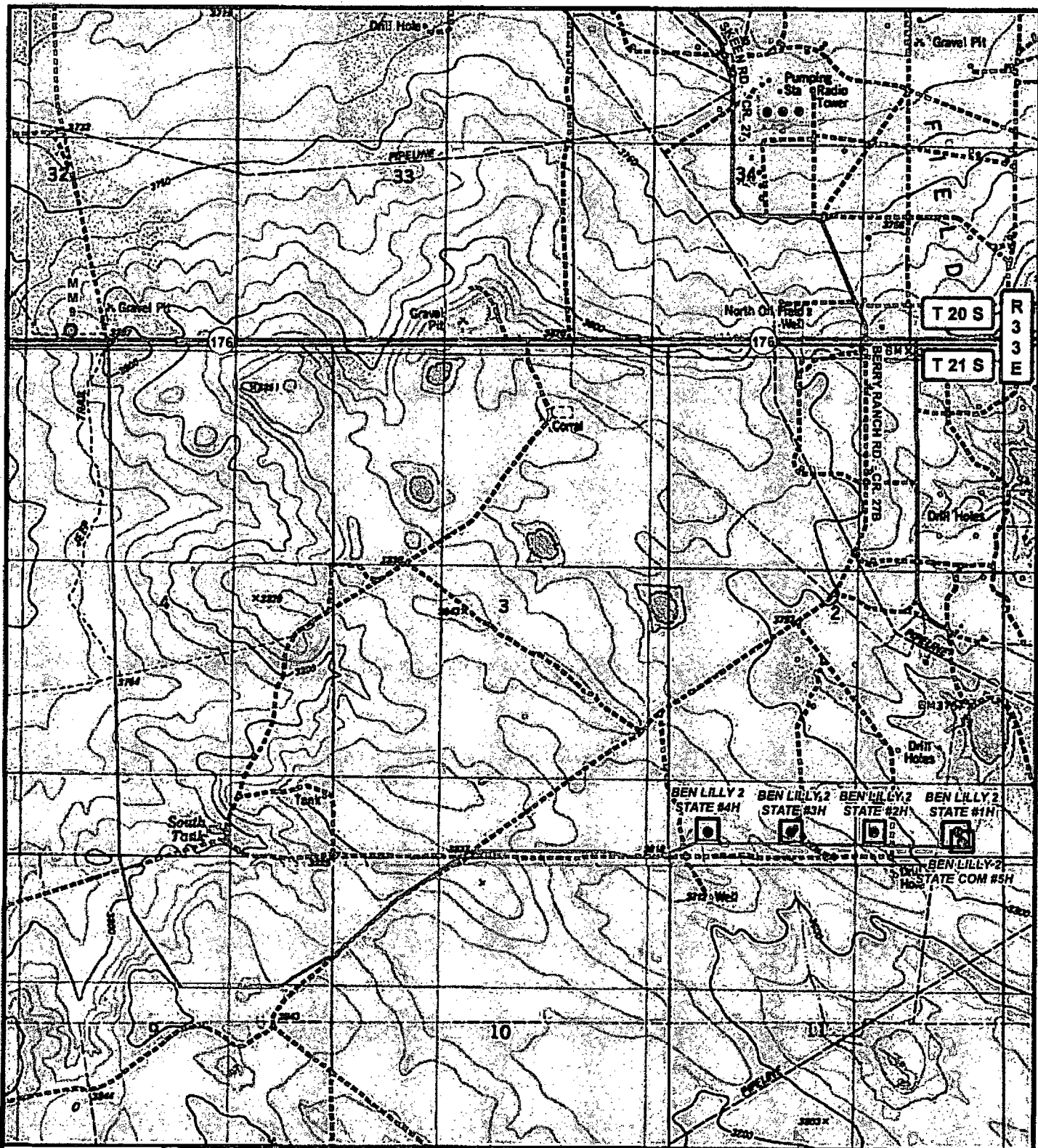
HARCROW SURVEYING, LLC
2314 W. MAIN ST, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



COG OPERATING, LLC

BEN LILLY 2 STATE COM #5H WELL
LOCATED 190 FEET FROM THE SOUTH LINE
AND 600 FEET FROM THE EAST LINE OF SECTION 2,
TOWNSHIP 21 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 4/30/2014	PAGE: 1 OF 1
DRAFTING DATE: 4/30/2014	
APPROVED BY: CH	DRAWN BY: AM FILE: 14-329



LEGEND

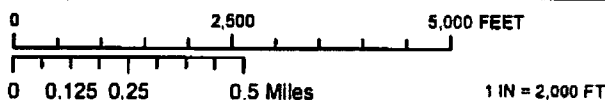
- WELL
- WELLPAD
- EXISTING ROAD

BEN LILLY 2 STATE COM #5H

SEC: 2 TWP: 21 S. RGE: 33 E. ELEVATION: 3783.9'

STATE: NEW MEXICO COUNTY: LEA 190' FSL & 600' FEL

W.O. # 14-329 LEASE: BEN LILLY ST. COM SURVEY: N.M.P.M

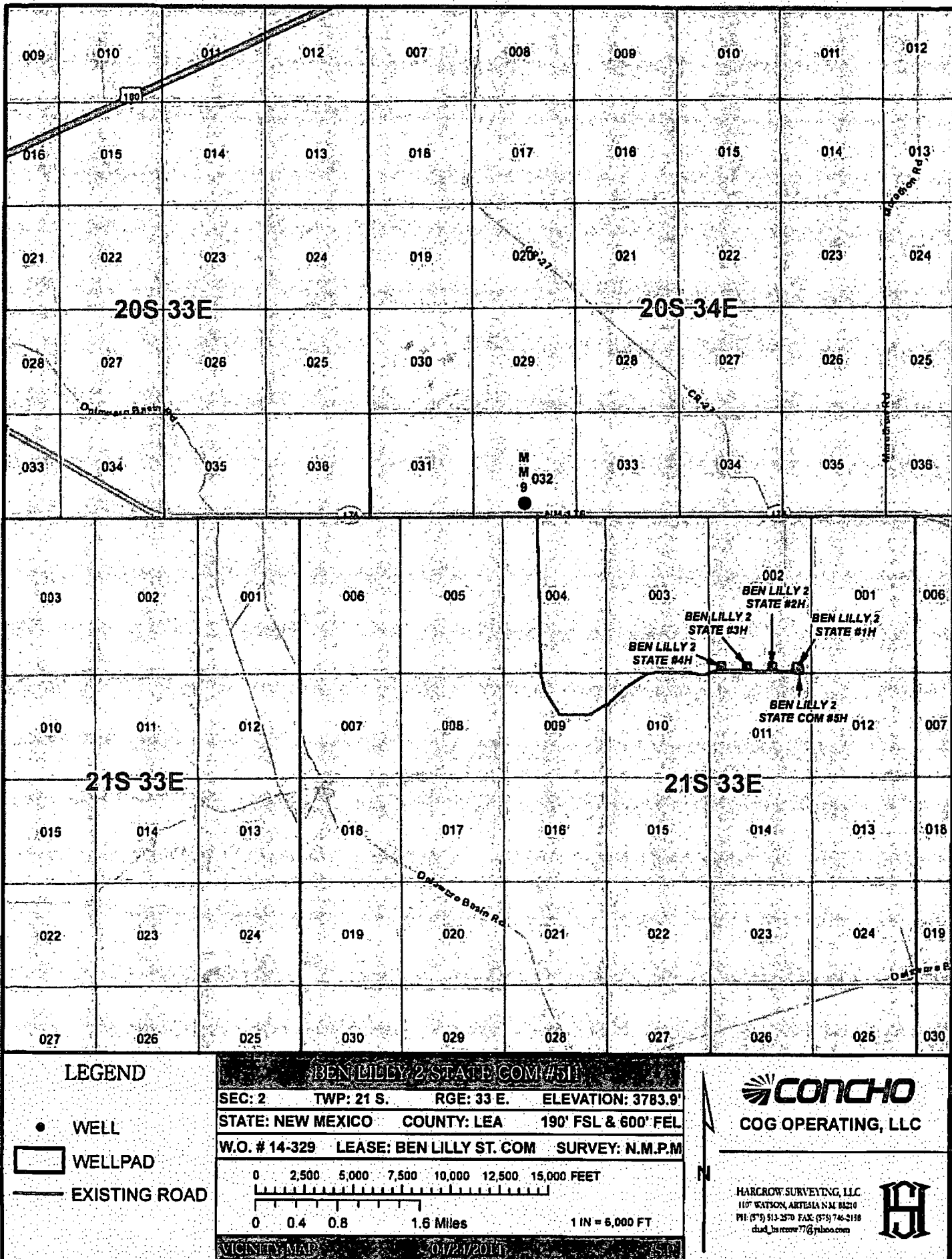


LOCATION MAP TOPO 01/21/2011

CONCHO
COG OPERATING, LLC

HARCROW SURVEYING, LLC
1107 WATSON, ARTESIA, NM 88210
PH (505) 513-2570 FAX (505) 746-2118
chad_harcrow77@yahoo.com





Ben Lilly 2 State Com 5H

Casing and Cement

String	Hole Size	Csg OD	PPF	Depth	Sx Cement	TOC
Surface	17-1/2"	13-3/8"	54.5#	1850'	1215	0'
Intermediate	12-1/4"	9-5/8"	36/40	5530'	2115	0'
Production	8-3/4"	5-1/2"	17#	18802'	3700	0'

Well Plan

Drill 17-1/2" hole to ~1850' w/ fresh water spud mud. Run 13-3/8" 54.5# J55 STC casing to TD and cement to surface in one stage. Will use 1" tubing and Class C w/ 2% CaCl₂ to cement to surface, if necessary.

Drill 12-1/4" hole to ~5530' with saturated brine water. If losses occur in the Reef, will switch to fresh water to interval TD. Run 9-5/8" 36#/40# J55/L80 LTC casing to TD with a DV tool placed ~ 100' above the Reef. Plan to circulate cement on both stages.

Drill 8-3/4" vertical hole, curve and lateral to 18802' with cut brine. Run 5-1/2" 17# P110 Tenaris TXP casing to TD and cement to surface in one stage.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	3000	T3 Energy Services