

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210
Phone: (575) 748-1293 Fax: (575) 748-0720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
11885 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
11885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

HOBBS OGD

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

OCT 27 2014

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 42210	Pool Code 41440	Pool Name Lusk; Bone Spring
Property Code 308161	Property Name LUSK DEEP UNIT A	Well Number 32H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3573.1

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	20	19-S	32-E		1980	SOUTH	400	WEST	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
I	20	19-S	32-E		2180	SOUTH	330	EAST	LEA

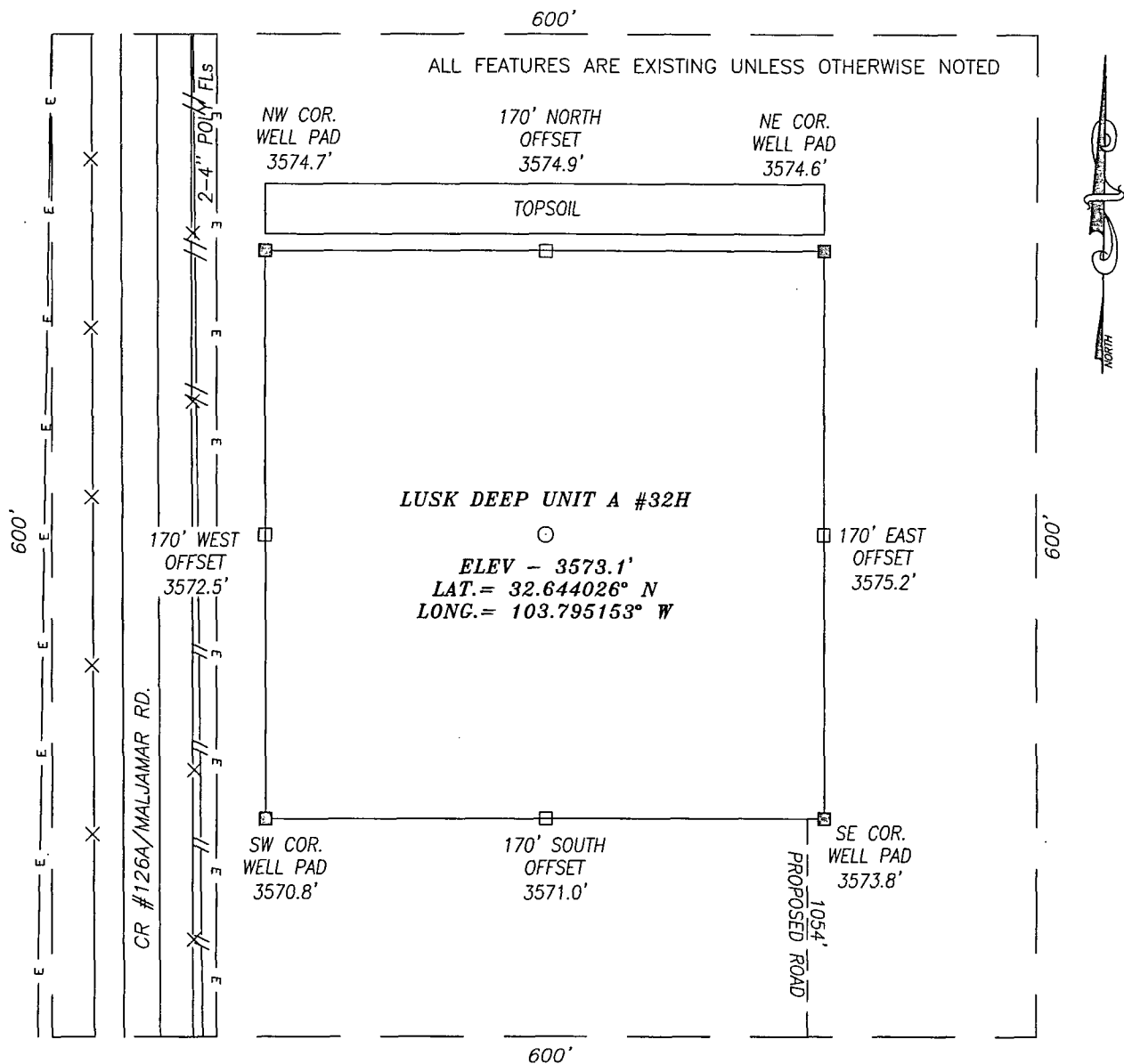
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

NAD 27 SURFACE LOCATION Y=598427.5 N X=665657.5 E LAT.=32.644026° N LONG.=103.795153° W NAD 27 PROPOSED BOTTOM HOLE LOCATION Y=598641.0 N X=670215.8 E LAT.=32.644548° N LONG.=103.780341° W GRID AZ. 87°19'06" HORZ. DIST. 4563.3' 400' S.L. 1980' Y=597766.2 N X=665262.1 E 2180' Y=597783.0 N X=670551.9 E 330' B.H. NMLC0065710A				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>Melanie J Parker</i> 10/12/14 Signature Date Melanie J Parker Printed Name mparker@concho.com E-mail Address 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. JUNE 12, 2013 Date of Survey Signature & Seal of Professional Surveyor <i>Chad Harcrow</i> 5/16/14 Certificate No. CHAD HARCROW 17777 W.O. # 13-354 DRAWN BY: VD	
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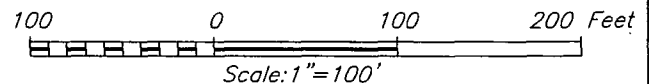
OCT-28 2014

SECTION 20, TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF LUSK RD AND CR #126A (MALJAMAR RD) GO APPROX. 0.6 MILE SOUTH ALONG CR #126A; THEN TURN LEFT (EAST) AND GO APPROX 0.1 MILE AND PROPOSED WELL IS APPROX. 1240 FEET NORTH.



HARCROW SURVEYING, LLC

1107 WATSON, ARTESIA, N.M. 88210
PH: (575) 513-2570 FAX: (575) 746-2158
chad_harcrow77@yahoo.com



COG OPERATING, LLC

LUSK DEEP UNIT A #32H WELL
LOCATED 1980 FEET FROM THE SOUTH LINE
AND 400 FEET FROM THE WEST LINE OF SECTION 20,
TOWNSHIP 19 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO

SURVEY DATE: 06/12/2013

PAGE: 1 OF 1

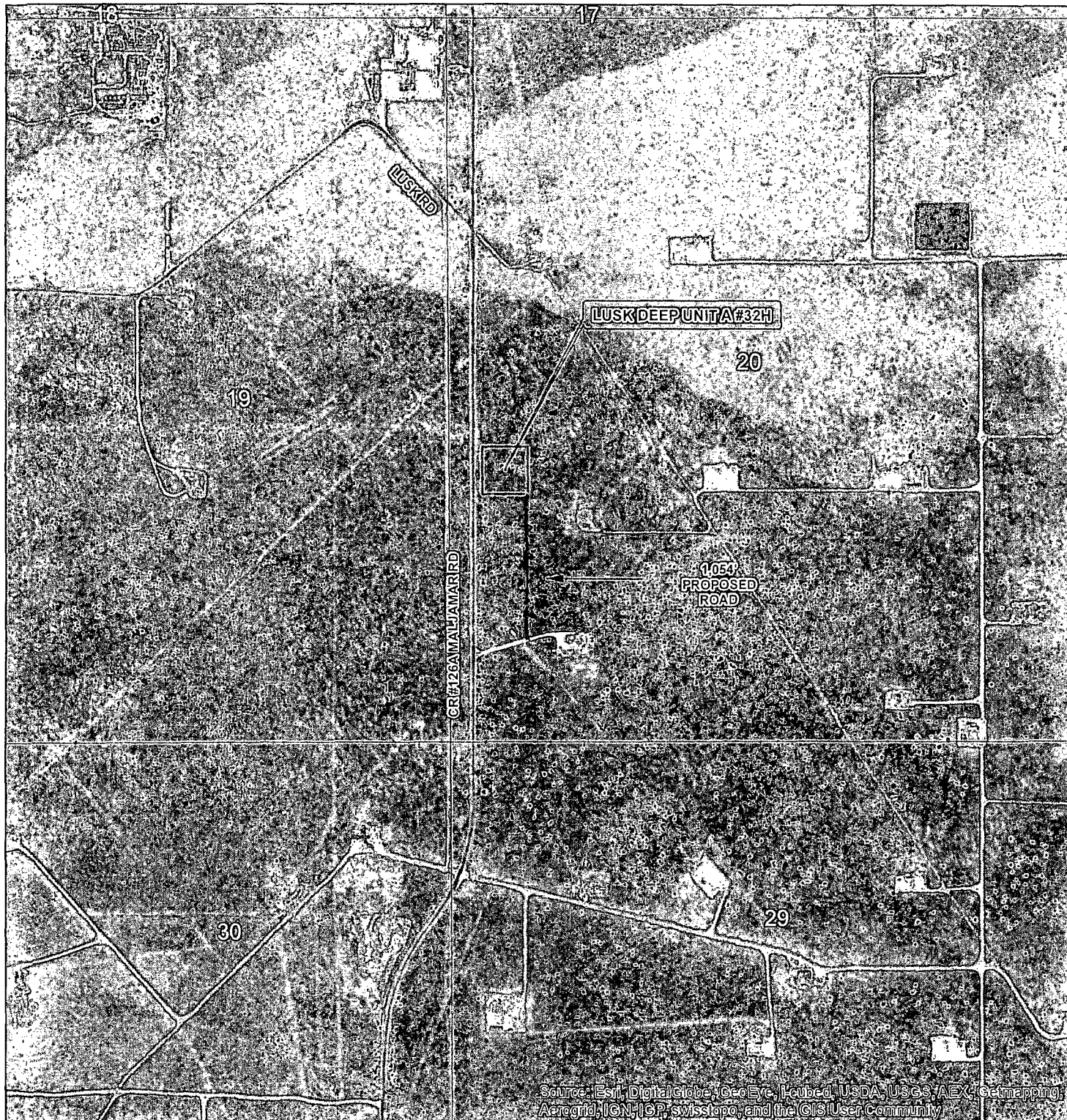
DRAFTING DATE: 06/17/2013

APPROVED BY: CH

DRAWN BY: VD

FILE: 13-354

LOCATION VERIFICATION MAP

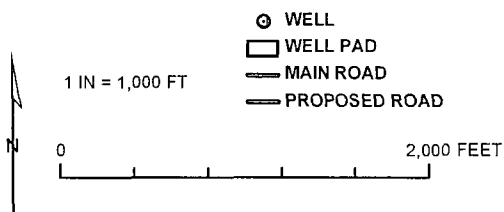


Source: Esri, DigitalGlobe, GeoEye, AeroMap, USDA, USGS, AEX, GeoMapping, AerialGrid, IGN, IOP, Swisstopo, and the GIS User Community

SEC. 20, TWP. 19S, RGE. 32E
 SURVEY: N.M.P.M
 COUNTY: LEA STATE: NEW MEXICO
 DESCRIPTION: LUSK DEEP UNIT A #32H
 1980' FSL, 400' FWL

ELEVATION: 3573.1'
 OPERATOR: COG OPERATING LLC
 LEASE: LUSK DEEP UNIT

W.O. # 13-354



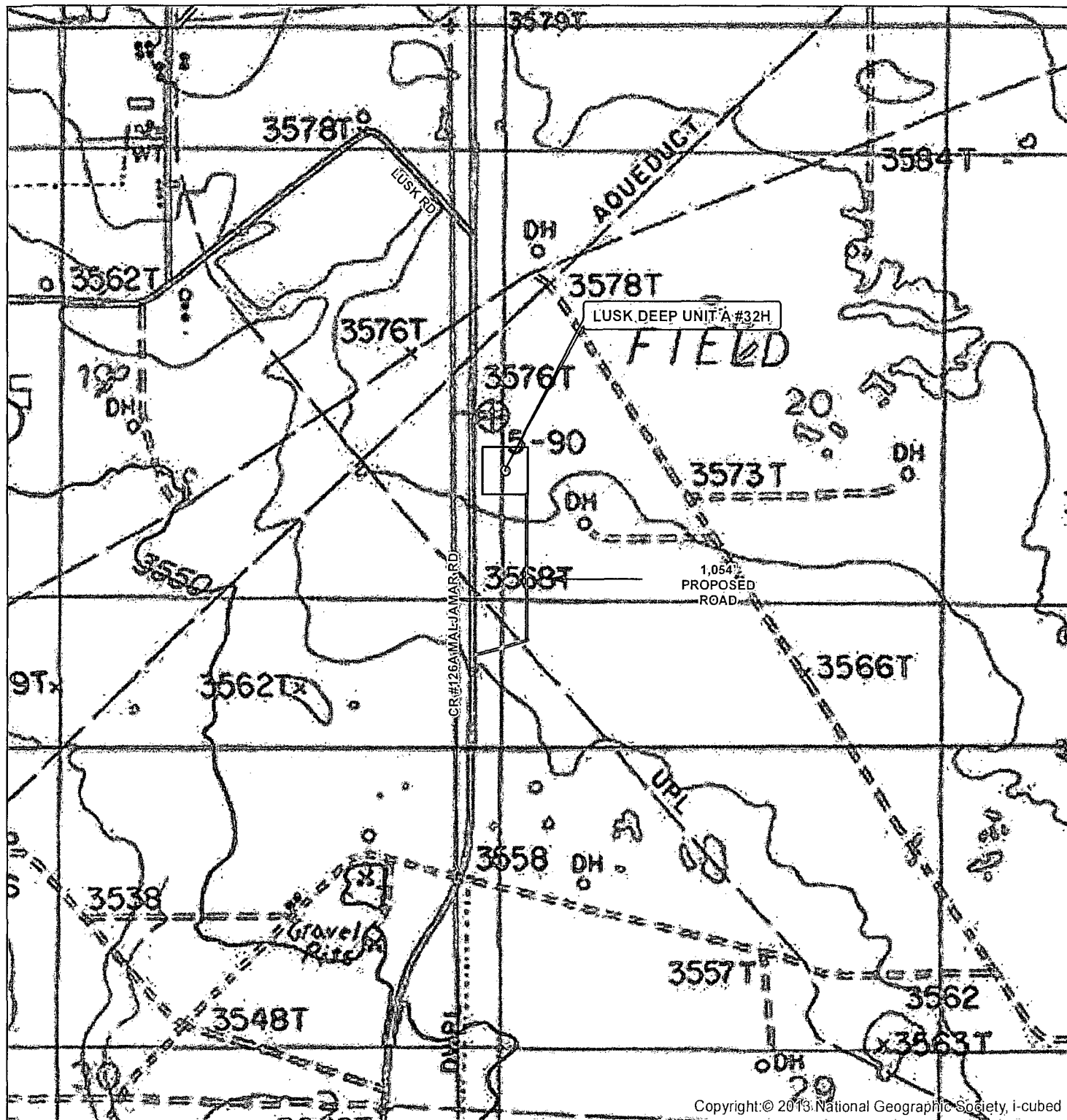
HARCROW SURVEYING, LLC
 1107 WATSON, ARTESIA N.M. 88210
 PH: (575) 513-2570 FAX: (575) 746-2158
 chad_harcrow77@yahoo.com



MAP DATE: 6/21/2013

EXHIBIT 2

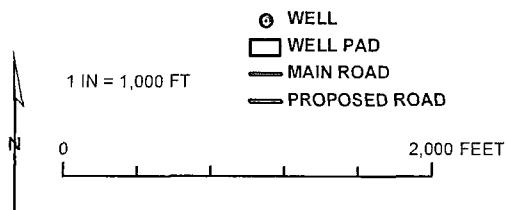
LOCATION VERIFICATION MAP



SEC. 20, TWP. 19S, RGE. 32E
 SURVEY: N.M.P.M
 COUNTY: LEA STATE: NEW MEXICO
 DESCRIPTION: LUSK DEEP UNIT A #32H
 1980' FSL, 400' FWL

ELEVATION: 3573.1'
 OPERATOR: COG OPERATING LLC
 LEASE: LUSK DEEP UNIT

W.O. # 13-354

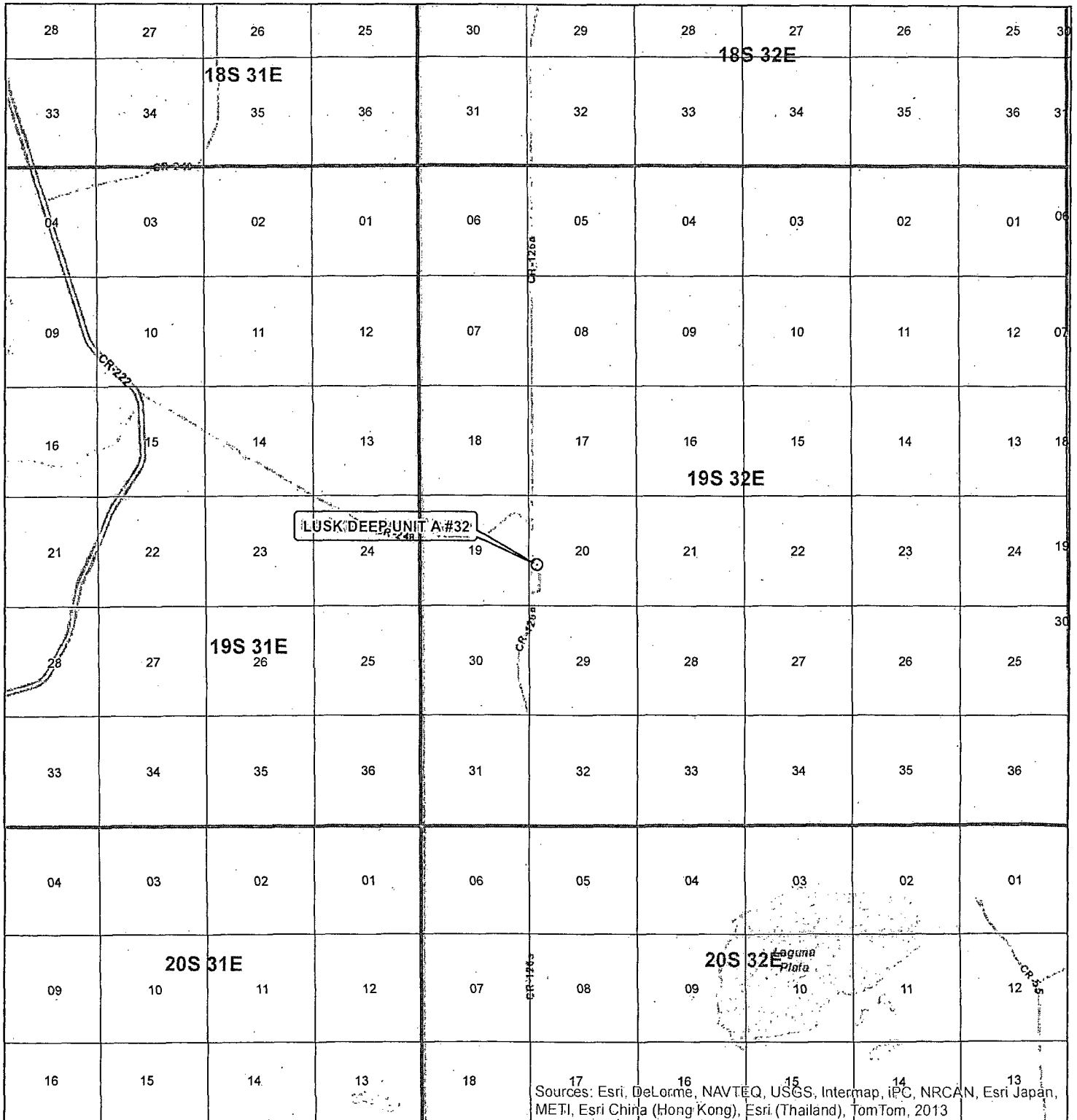


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MAP DATE: 6/21/2013

VICINITY MAP



Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013

SEC. 20, TWP. 19S, RGE. 32E
 SURVEY: N.M.P.M
 COUNTY: LEA STATE: NEW MEXICO
 DESCRIPTION: LUSK DEEP UNIT A #32H
 1980' FSL, 400' FWL

ELEVATION: 3573.1'
 OPERATOR: COG OPERATING LLC
 LEASE: LUSK DEEP UNIT



1 IN = 6,600 FT

0 0.5 1 MILES

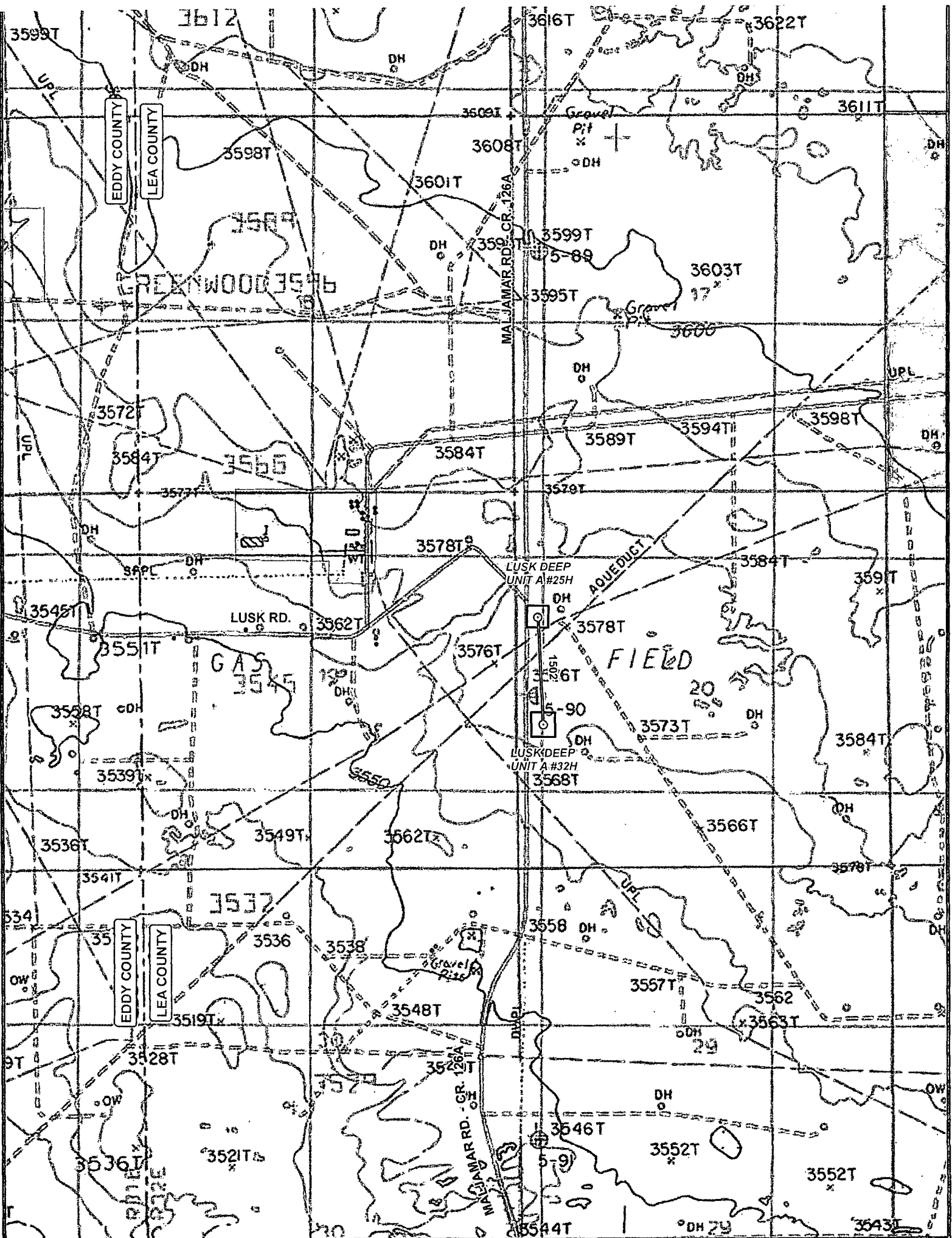
WELL
 TOWNSHIP
 SECTION

HARCROW SURVEYING, LLC
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W.O. # 13-354

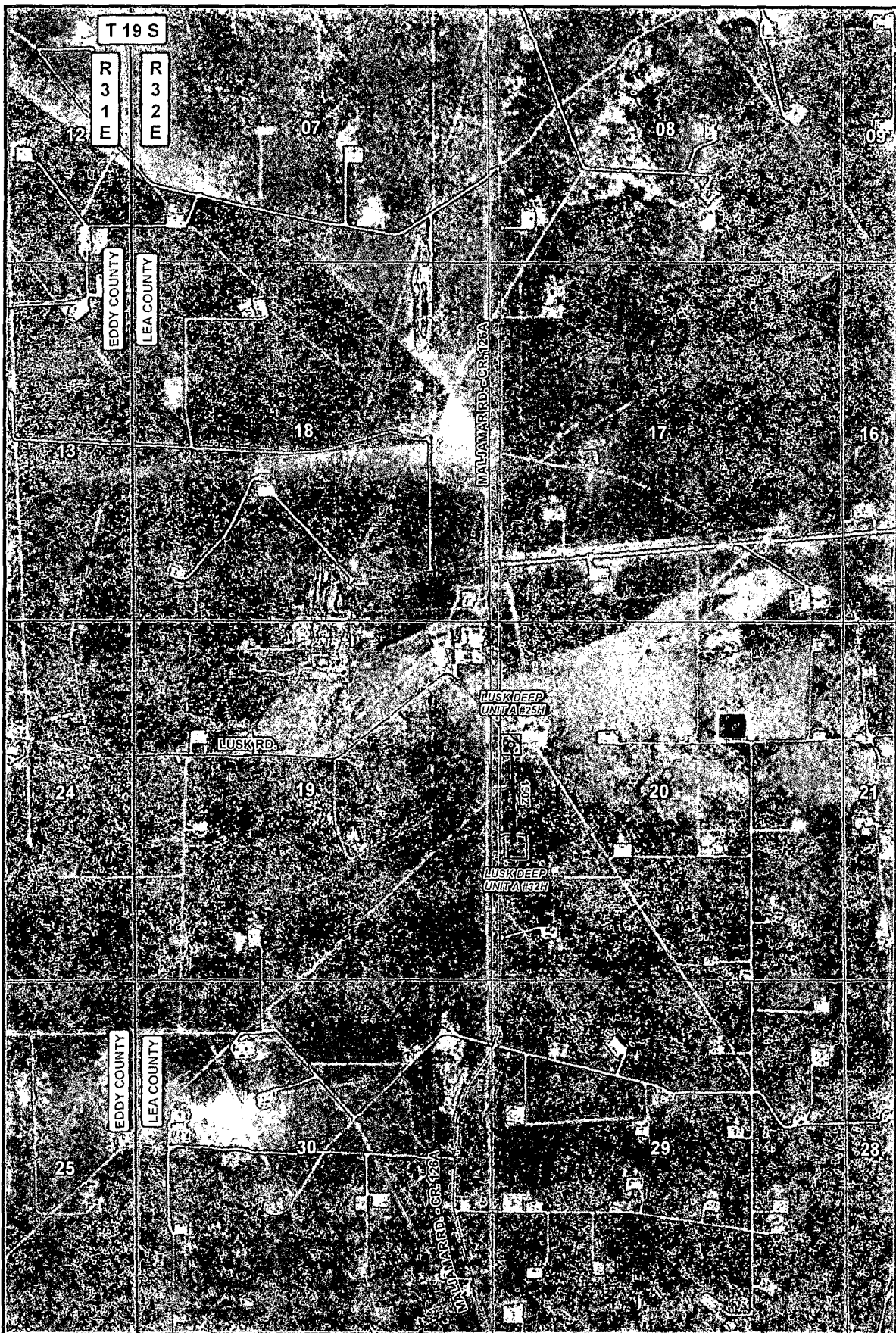
MAP DATE: 6/21/2013



LEGEND

LUSK DEEP UNIT A #32H TO #25H FLOWLINE



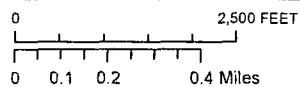


LEGEND

- FLOWLINE
- WELL
- WELLPAD

LUSK DEEP UNIT A #32H TO #25H FLOWLINE

SECTION: 20 TOWNSHIP: 19 S. RANGE: 32 E.
 STATE: NEW MEXICO COUNTY: LEA SURVEY: N.M.P.M.
 W.O. # 14-496 LEASE: LUSK DEEP UNIT A

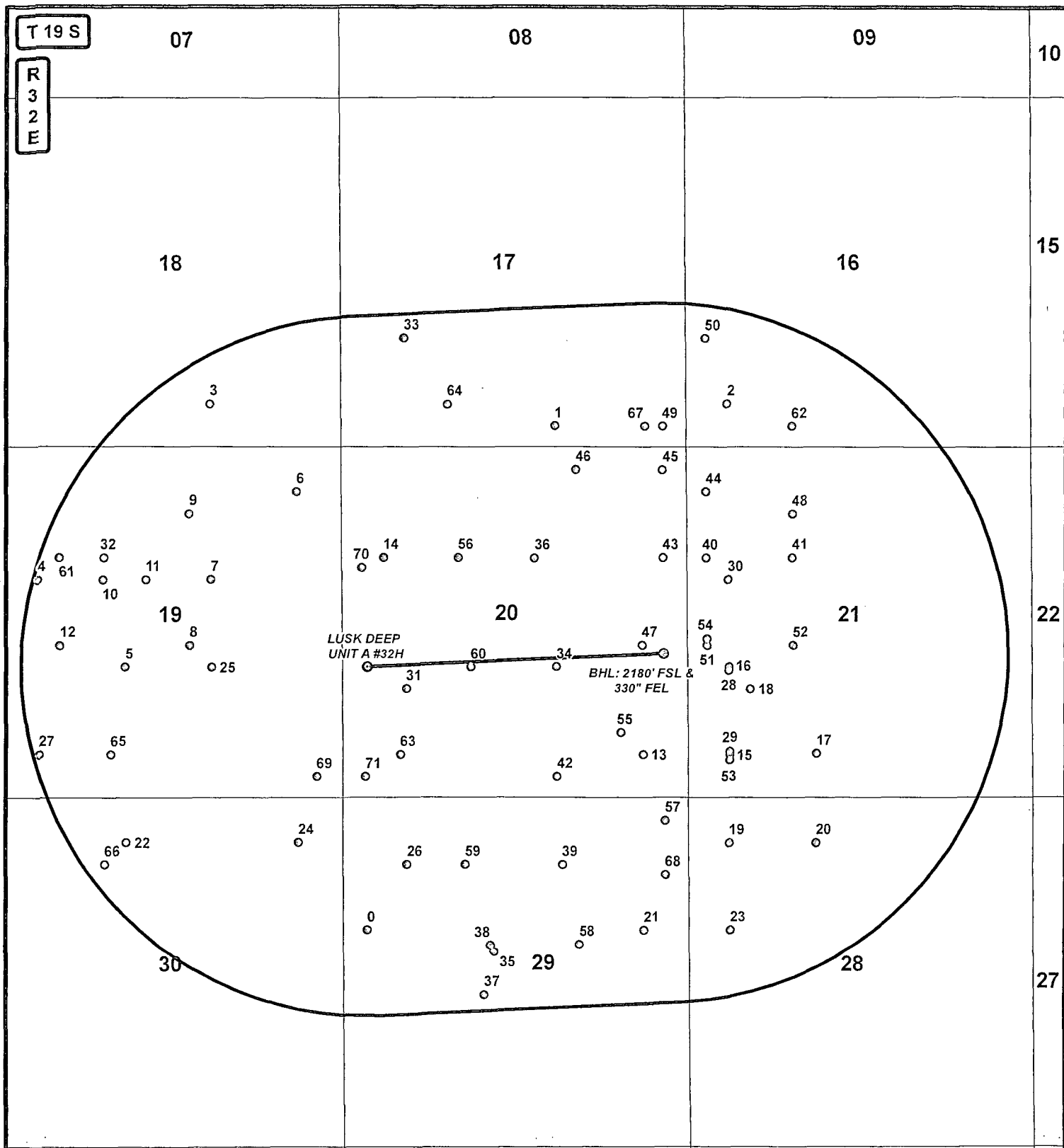


1 IN = 1,652 FT

FLOWLINE MAP IMAGERY 06/12/2014 S.P.

CONCHO
 COG OPERATING, LLC

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



DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH APRIL 13, 2014.

LEGEND

- WELL
- BOTTOMHOLE
- WELLS WITHIN 1 MI.
- 1 MI. BUFFER

LUSK DEEP UNIT A #32H

SEC: 20 TWP: 19 S. RGE: 32 E. ELEVATION: 3573.1'

STATE: NEW MEXICO COUNTY: LEA 1980' FSL & 400' FWL

W.O. # 14-476 LEASE: LUSK DEEP UNIT A SURVEY: N.M.P.M

0 2,500 5,000 FEET

0 0.125 0.25 0.5 Miles

1 IN = 2,000 FT

1 MILE MAP

06/12/2014

S.P.



COG OPERATING, LLC



HARCROW SURVEYING, LLC.

2314 W. MAIN ST, ARTESIA, NM 88210

PH: (575) 513-2570 FAX: (575) 746-2158

chad_harcrow77@yahoo.com

FID	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE	API	SECTION	TOWNSHIP	RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	TVD_DEPTH	COMPL_STAT
0	CIMAREX ENERGY CO. OF COLORADO	SOUTHERN CALIFORNIA 29 FEDERAL 016H	32.633259	-103.795698	3002539853	29	19.0S	32E	1980 N		375 W		9211	New (Not drilled or compl)
1	COG OPERATING LLC	STEALTH FEDERAL COM 002	32.654103	-103.786252	3002539485	17	19.0S	32E	330 S		1980 E		0	New (Not drilled or compl)
2	ENDURANCE RESOURCES LLC	LUSK 16 STATE 001	32.65499	-103.777635	3002500898	16	19.0S	32E	660 S		660 W		3612	Active
3	EL PASO NATURAL GAS	LUSK DEEP UNIT 002	32.655057	-103.803432	3002500900	18	19.0S	32E	660 S		1980 E		13974	Plugged
4	TANDEM ENERGY CORPORATION	MILLER FEDERAL 001	32.64783	-103.812035	3002500902	19	19.0S	32E	1980 N		660 W		2634	Active
5	CARPER DRILLING CO	MILLER 002	32.644182	-103.807712	3002500904	19	19.0S	32E	1980 S		1980 W		2862	Plugged
6	COG OPERATING LLC	LUSK DEEP UNIT A 001	32.651413	-103.799113	3002500905	19	19.0S	32E	660 N		660 E		12453	Active
7	TOM R CONE	SOUTHERN CALIFORNIA PET FEDERAL 001	32.6478	-103.803413	3002500906	19	19.0S	32E	1980 N		1980 E		2715	Active
8	KELLY G STOUT	SOUTHERN CALIFORNIA 002	32.645079	-103.804484	3002500907	19	19.0S	32E	2310 S		2310 E		2552	Plugged
9	KELLY G STOUT	SOUTHERN CALIFORNIA 003	32.650526	-103.804497	3002500908	19	19.0S	32E	990 N		2310 E		2695	Plugged
10	TOM R CONE	GULF FEDERAL 001	32.647819	-103.808803	3002500909	19	19.0S	32E	1980 N		1650 W		2490	Active
11	TOM R CONE	GULF FEDERAL 002	32.647812	-103.806648	3002500910	19	19.0S	32E	1980 N		2310 W		2500	Active
12	SIMMS & REESE OIL CO	GULF 001	32.645099	-103.810947	3002500911	19	19.0S	32E	2310 S		990 W		2640	Plugged
13	CULBERTSON,IRWIN &	LYNCH 004	32.640481	-103.781902	3002500912	20	19.0S	32E	660 S		660 E		2820	Plugged
14	EL PASO NATURAL GAS	LUSK DEEP UNIT 003	32.648679	-103.794797	3002500913	20	19.0S	32E	1650 N		660 W		12621	Plugged
15	SHACKELFORD OIL CO	LYNCH 001	32.64047	-103.777593	3002500914	21	19.0S	32E	660 S		660 W		2886	Plugged
16	CULBERTSON & IRWIN	LYNCH 002	32.644098	-103.777604	3002500915	21	19.0S	32E	1980 S		660 W		2820	Plugged
17	SHACKELFORD OIL CO	LYNCH 003	32.640509	-103.773245	3002500916	21	19.0S	32E	678 S		1992 W		2778	Plugged
18	KERSEY & COMPANY	ATLANTIC 001	32.643189	-103.776524	3002500917	21	19.0S	32E	1650 S		990 W		2710	Plugged
19	SHACKELFORD OIL CO	BOWMAN FEDERAL 001	32.636825	-103.777613	3002500923	28	19.0S	32E	666 N		650 W		99	Plugged
20	SHACKELFORD OIL CO	BOWMAN FEDERAL 002	32.636832	-103.773273	3002500924	28	19.0S	32E	660 N		1980 W		2771	Plugged
21	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 908	32.633224	-103.781876	3002500925	29	19.0S	32E	1980 N		660 E		12833	Plugged
22	CHISOS, LTD	DELHI FEDERAL 001	32.636925	-103.807685	3002520025	30	19.0S	32E	660 N		1980 W		11286	Active
23	CIMAREX ENERGY CO. OF COLORADO	PLAINS UNIT FEDERAL 002	32.633214	-103.777567	3002520040	28	19.0S	32E	1980 N		660 W		12996	Active
24	OXY USA INC	ELLIOTT HALL A 001	32.636897	-103.79908	3002520104	30	19.0S	32E	660 N		660 E		12475	Active
25	COG OPERATING LLC	LUSK DEEP UNIT A 005	32.644168	-103.803404	3002520122	19	19.0S	32E	1980 S		1980 E		12554	Active
26	EL PASO NATURAL GAS	SOUTHERN CALIFORNIA 002	32.635975	-103.793694	3002520156	29	19.0S	32E	990 N		990 W		11407	Plugged
27	EL PASO NATURAL GAS	LUSK DEEP UNIT 006	32.640567	-103.812007	3002520247	19	19.0S	32E	660 S		660 W		11432	Plugged
28	PAN AMERICAN PETROLEUM CORP	PLAINS UNIT 004	32.643961	-103.777603	3002520323	21	19.0S	32E	1930 S		660 W		11517	Plugged
29	CIMAREX ENERGY CO. OF COLORADO	PLAINS UNIT FEDERAL 004Y	32.640608	-103.777593	3002520518	21	19.0S	32E	710 S		660 W		11514	Plugged
30	SHACKELFORD OIL CO	PLAINS 006	32.647733	-103.777615	3002520769	21	19.0S	32E	1980 N		660 W		11690	Active
31	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 012	32.643232	-103.793707	3002520874	20	19.0S	32E	1650 S		990 W		11467	Active
32	TOM R CONE	GULF FEDERAL 003	32.648726	-103.808715	3002520876	19	19.0S	32E	1650 N		1678 W		11223	Active
33	EL PASO NATURAL GAS	LUSK DEEP UNIT 011	32.657747	-103.793743	3002521042	17	19.0S	32E	1650 S		990 W		11470	Plugged
34	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 010	32.64412	-103.786222	3002521488	20	19.0S	32E	1980 S		1980 E		11550	Active
35	KINCAID & WATSON DRILLING CO	BOWMAN 001	32.632336	-103.789382	3002522280	29	19.0S	32E	2310 N		2310 W		2746	Plugged
36	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 007	32.648635	-103.78728	3002524869	20	19.0S	32E	1660 N		2300 E		12759	Active
37	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 911	32.630522	-103.78987	3002530165	29	19.0S	32E	2310 S		2160 W		6850	Active
38	SHACKELFORD OIL CO	SOUTHERN CALIFORNIA FEDERAL 007	32.632611	-103.789546	3002530328	29	19.0S	32E	2210 N		2260 W		7204	Active
39	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 902	32.635955	-103.785933	3002530329	29	19.0S	32E	990 N		1900 E		7200	Active
40	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 105	32.648643	-103.778694	3002530439	21	19.0S	32E	1650 N		330 W		6700	Plugged
41	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 106	32.648632	-103.774385	3002530456	21	19.0S	32E	1650 N		1650 W		6690	Plugged
42	SHACKELFORD OIL CO	LUSK DEEP UNIT A 014	32.639584	-103.786208	3002530490	20	19.0S	32E	330 S		1980 E		7200	TA
43	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 008	32.648646	-103.780849	3002530494	20	19.0S	32E	1651 N		330 E		7220	Plugged
44	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 104	32.651365	-103.778703	3002530496	21	19.0S	32E	660 N		330 W		6650	Active
45	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 001	32.652277	-103.78086	3002530518	20	19.0S	32E	330 N		330 E		7500	Active
46	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 002	32.652286	-103.785188	3002530523	20	19.0S	32E	330 N		1656 E		7220	Plugged
47	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 009	32.645016	-103.781915	3002530524	20	19.0S	32E	2310 S		660 E		7230	Plugged
48	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 103	32.650446	-103.774391	3002530572	21	19.0S	32E	990 N		1650 W		6650	Active
49	ENDURANCE RESOURCES LLC	PIPELINE FEDERAL 001	32.654091	-103.780865	3002530597	17	19.0S	32E	330 S		330 E		7205	Active
50	ENDURANCE RESOURCES LLC	LUSK 16 STATE 006	32.657714	-103.778719	3002530638	16	19.0S	32E	1650 S		330 W		6600	Active
51	SHACKELFORD OIL CO	MOBIL FEDERAL 003	32.645008	-103.778684	3002530694	21	19.0S	32E	2310 S		330 W		7240	Plugged
52	SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 111	32.644998	-103.774375	3002530791	21	19.0S	32E	2310 S		1650 W		7230	Active
53	SHACKELFORD OIL CO	MOBIL FEDERAL 006	32.640253	-103.777592	3002533317	21	19.0S	32E	581 S		660 W		2798	Active
54	SHACKELFORD OIL CO	MOBIL FEDERAL 007	32.645283	-103.778684	3002533548	21	19.0S	32E	2410 S		330 W		5070	Active
55	CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 016	32.64139	-103.782982	3002534031	20	19.0S	32E	990 S		990 E		6600	Plugged

56 SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 006	32.648671	-103.791076	3002534032	20 19.0S	32E	1650 N	1800 W	7165 Active
57 SHACKELFORD OIL CO	LUSK WEST DELAWARE UNIT 901	32.637757	-103.780816	3002534131	29 19.0S	32E	330 N	330 E	6927 Active
58 CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 907	32.632628	-103.785105	3002534132	29 19.0S	32E	2200 N	1650 E	6630 Plugged
59 CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 903	32.635968	-103.790789	3002534172	29 19.0S	32E	990 N	1880 W	6635 Plugged
60 CIMAREX ENERGY CO. OF COLORADO	LUSK WEST DELAWARE UNIT 011	32.644131	-103.790477	3002534173	20 19.0S	32E	1980 S	1980 W	6630 Plugged
61 COG OPERATING LLC	LUSK DEEP UNIT A 014	32.648734	-103.810961	3002534573	19 19.0S	32E	1650 N	990 W	12540 Active
62 ENDURANCE RESOURCES LLC	LUSK 16 STATE 003	32.654074	-103.7744	3002534721	16 19.0S	32E	330 S	1650 W	7235 Active
63 COG OPERATING LLC	LUSK DEEP UNIT A 017	32.640511	-103.794026	3002535095	20 19.0S	32E	660 S	890 W	12750 Active
64 COG OPERATING LLC	LUSK DEEP UNIT A 019	32.655021	-103.791581	3002535244	17 19.0S	32E	660 S	1650 W	12754 Active
65 COG OPERATING LLC	LUSK DEEP UNIT A 021	32.640556	-103.808449	3002535291	19 19.0S	32E	660 S	1750 W	12718 Active
66 COG OPERATING LLC	SL DEEP FEDERAL 003	32.636022	-103.808759	3002539441	30 19.0S	32E	990 N	1650 W	9580 Active
67 COG OPERATING LLC	STEALTH FEDERAL COM 001H	32.654093	-103.781746	3002539484	17 19.0S	32E	330 S	600 E	12968 Active
68 CIMAREX ENERGY CO. OF COLORADO	SOUTHERN CALIFORNIA 29 FEDERAL 018H	32.63553	-103.780807	3002539889	29 19.0S	32E	1140 N	330 E	9316 New (Not drilled or compl)
69 COG OPERATING LLC	LUSK DEEP UNIT A 023H	32.639615	-103.79817	3002540260	19 19.0S	32E	330 S	380 E	13595 New (Not drilled or compl)
70 COG OPERATING LLC	LUSK DEEP UNIT A 025H	32.648269	-103.795874	3002540193	20 19.0S	32E	1800 N	330 W	13706 New (Not drilled or compl)
71 COG OPERATING LLC	LUSK DEEP UNIT A 030H	32.639608	-103.795754	3002541513	20 19.0S	32E	330 S	360 W	0 New (Not drilled or compl)