

T 25 S

R 33 E

21

22

23

ROJO AE 7811  
JV-P FED COM #1H

ROJO AE 7811  
JV-P FED COM #2H

ROJO AE 7811  
JV-P FED COM #3H

490.7'

317.2'

27

28

26

LEGEND

-  WELL
-  WELLPAD
-  EXISTING ROAD
-  PROPOSED ROAD

ROJO AE 7811 JV-P FEDERAL COM #WELLS

SECTION: 27	TOWNSHIP: 25 S.	RANGE: 33 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 16-755/756	LEASE: ROJO AE 7811 JV-P FED COM	



LOCATION MAP      IMAGERY ROAD      10/18/2016      JR



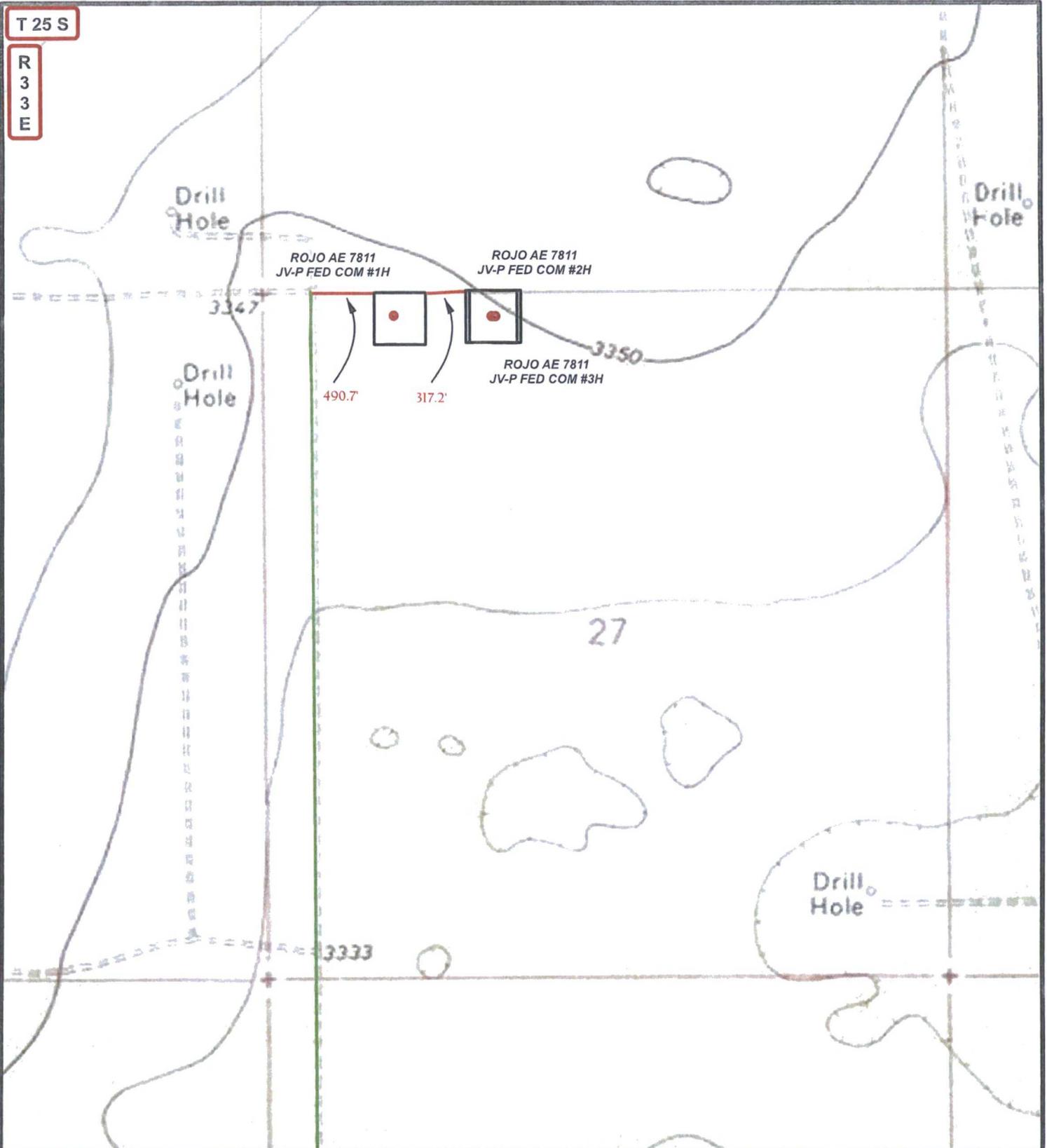
OIL PRODUCERS



HARCROW SURVEYING, LLC.  
 2314 W. MAIN ST, ARTESIA, NM 88210  
 PH: (575) 746-2158 FAX: (575) 746-2158  
 c.harcrow@harcrowsurveying.com

T 25 S

R  
3  
3  
E

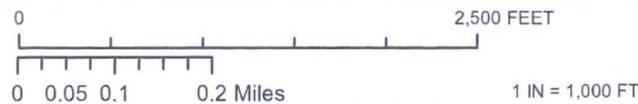


**LEGEND**

- WELL
- WELLPAD
- EXISTING ROAD
- PROPOSED ROAD

**ROJO AE 7811 JV-P FEDERAL COM WELLS**

SECTION: 27	TOWNSHIP: 25 S.	RANGE: 33 E.
STATE: NEW MEXICO	COUNTY: LEA	SURVEY: N.M.P.M
W.O. # 16-755/756	LEASE: ROJO AE 7811 JV-P FED COM	



LOCATION MAP      TOPO ROAD      10/18/2016      JR

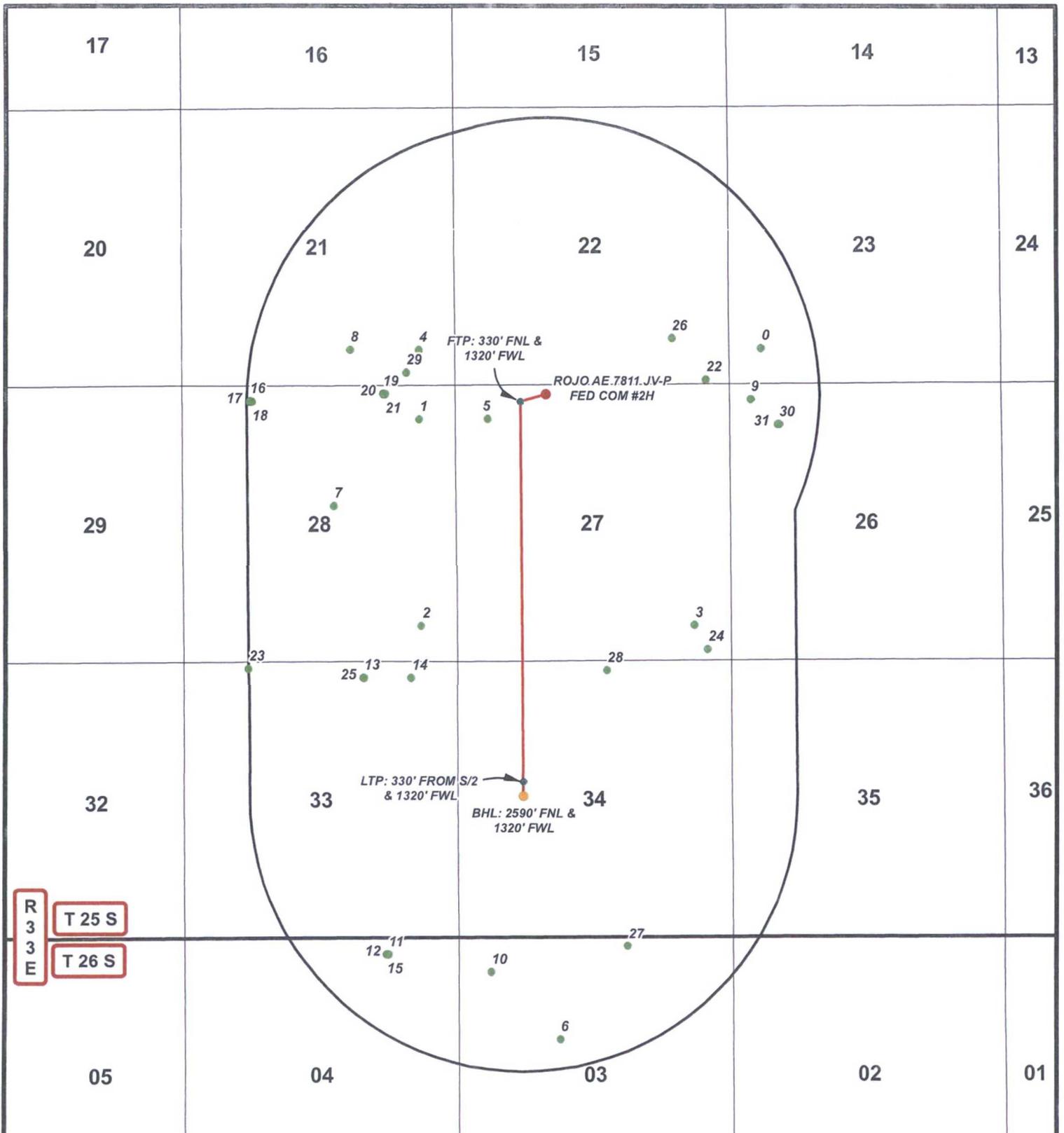


**OIL PRODUCERS**

**H** HARCROW SURVEYING, LLC.  
 2314 W. MAIN ST, ARTESIA, NM 88210  
 PH: (575) 746-2158 FAX: (575) 746-2158  
 c.harcrow@harcrowsurveying.com

ROJO AE 7811 JV-P FEDERAL COM #2H 1 MILE WELLS (16-942)

FID	OPERATOR	WELL_NAME	LATITUDE	LONGITUDE	API	SECTION	TOWNSHIP	RANGE	FTG_NS	NS_CD	FTG_EW	EW_CD	COMPL_STAT
0	HILL & MEEKER	MUSE 23 FEDERAL 001	32.110586	-103.549472	3002508387	23	25.0S	33E	660 S		660 W		Plugged
1	CURTIS HANKAMER	CONLEY FEDERAL 001	32.106986	-103.570854	3002508390	28	25.0S	33E	660 N		660 E		Plugged
2	TIDEWATER OIL CO	ANNIE R BASS FEDERAL 001	32.096108	-103.570828	3002508391	28	25.0S	33E	660 S		660 E		Plugged
3	ROBERT A DEAN	HARRY DICKSON 001	32.096082	-103.553745	3002522786	27	25.0S	33E	660 S		660 E		Plugged
4	PRE-ONGARD WELL OPERATOR	PRE-ONGARD WELL 001	32.110614	-103.570862	3002523895	21	25.0S	33E	660 S		660 E		Plugged
5	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P 001	32.106978	-103.56657	3002526188	27	25.0S	33E	660 N		660 W		Active
6	J A LEONARD	CHAMBERS 3 FEDERAL 001	32.074333	-103.562219	3002527897	3	26.0S	33E	1980 N		1980 W		Plugged
7	CIMAREX ENERGY CO. OF COLORADO	RED HILLS 28 FEDERAL COM 001	32.102463	-103.576198	3002529191	28	25.0S	33E	2310 N		2310 E		Active
8	EOG RESOURCES INC	BRINNINSTOOL 21 FEDERAL 001	32.110625	-103.575146	3002530050	21	25.0S	33E	660 S		1980 E		Plugged
9	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM 001H	32.107927	-103.550159	3002539531	26	25.0S	33E	330 N		430 W		New (Not drilled or compl)
10	COG OPERATING LLC	RED BULL 3 FEDERAL 001	32.077896	-103.566527	3002539812	3	26.0S	33E	660 N		660 W		New (Not drilled or compl)
11	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 032H	32.078845	-103.572992	3002542309	4	26.0S	33E	330 N		1330 E		New (Not drilled or compl)
12	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 033H	32.078844	-103.572927	3002542310	4	26.0S	33E	330 N		1310 E		New (Not drilled or compl)
13	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 019H	32.093397	-103.574441	3002542326	33	25.0S	33E	330 N		1765 E		New (Not drilled or compl)
14	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 021H	32.093391	-103.571473	3002542327	33	25.0S	33E	330 N		850 E		New (Not drilled or compl)
15	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 031H	32.078846	-103.573057	3002542332	4	26.0S	33E	330 N		1350 E		New (Not drilled or compl)
16	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 001H	32.107967	-103.581392	3002542369	28	25.0S	33E	330 N		1310 W		New (Not drilled or compl)
17	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 002H	32.107967	-103.581327	3002542370	28	25.0S	33E	330 N		1330 W		New (Not drilled or compl)
18	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 003H	32.107966	-103.581263	3002542371	28	25.0S	33E	330 N		1350 W		New (Not drilled or compl)
19	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 004H	32.108311	-103.573113	3002542372	28	25.0S	33E	180 N		1350 E		New (Not drilled or compl)
20	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 005H	32.10831	-103.573048	3002542373	28	25.0S	33E	180 N		1330 E		New (Not drilled or compl)
21	CIMAREX ENERGY CO.	CASCADE 28 FEDERAL 006H	32.108309	-103.572983	3002542374	28	25.0S	33E	180 N		1310 E		New (Not drilled or compl)
22	BTA OIL PRODUCERS, LLC	ROJO 7811 JV-P FEDERAL COM 002H	32.108969	-103.552941	3002542414	22	25.0S	33E	50 S		430 E		New (Not drilled or compl)
23	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 018H	32.093906	-103.581541	3002542451	33	25.0S	33E	150 N		1280 W		New (Not drilled or compl)
24	BTA OIL PRODUCERS, LLC	ROJO C 7811 JV-P 001H	32.094836	-103.552952	3002542458	27	25.0S	33E	190 S		380 E		New (Not drilled or compl)
25	CIMAREX ENERGY CO. OF COLORADO	RED HILLS UNIT 020H	32.093396	-103.574377	3002542572	33	25.0S	33E	330 N		1745 E		New (Not drilled or compl)
26	BTA OIL PRODUCERS, LLC	ROJO SWD 7811 JV-P 002	32.111141	-103.555026	3002542704	22	25.0S	33E	843 S		1064 E		New (Not drilled or compl)
27	COG OPERATING LLC	COLUMBUS FEE 022H	32.079226	-103.55801	3002542810	3	26.0S	33E	190 N		1980 E		New (Not drilled or compl)
28	COG OPERATING LLC	COLUMBUS FEE 002H	32.093728	-103.559215	3002542822	34	25.0S	33E	210 N		2310 E		New (Not drilled or compl)
29	EOG RESOURCES INC	RATTLESNAKE 21 FEDERAL COM 701H	32.109425	-103.571655	3002542827	21	25.0S	33E	230 S		900 E		New (Not drilled or compl)
30	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM 707H	32.106609	-103.548394	3002543220	26	25.0S	33E	806 N		979 W		New (Not drilled or compl)
31	EOG RESOURCES INC	LOMAS ROJAS 26 STATE COM 708H	32.10661	-103.548491	3002543221	26	25.0S	33E	806 N		949 W		New (Not drilled or compl)



DATA FOR "WELLS WITHIN 1 MI." IS TAKEN FROM THE NEW MEXICO EMNRD WEBSITE. THE DATA HAS BEEN UPDATED THROUGH OCTOBER 29, 2016.

R  
3  
3  
E

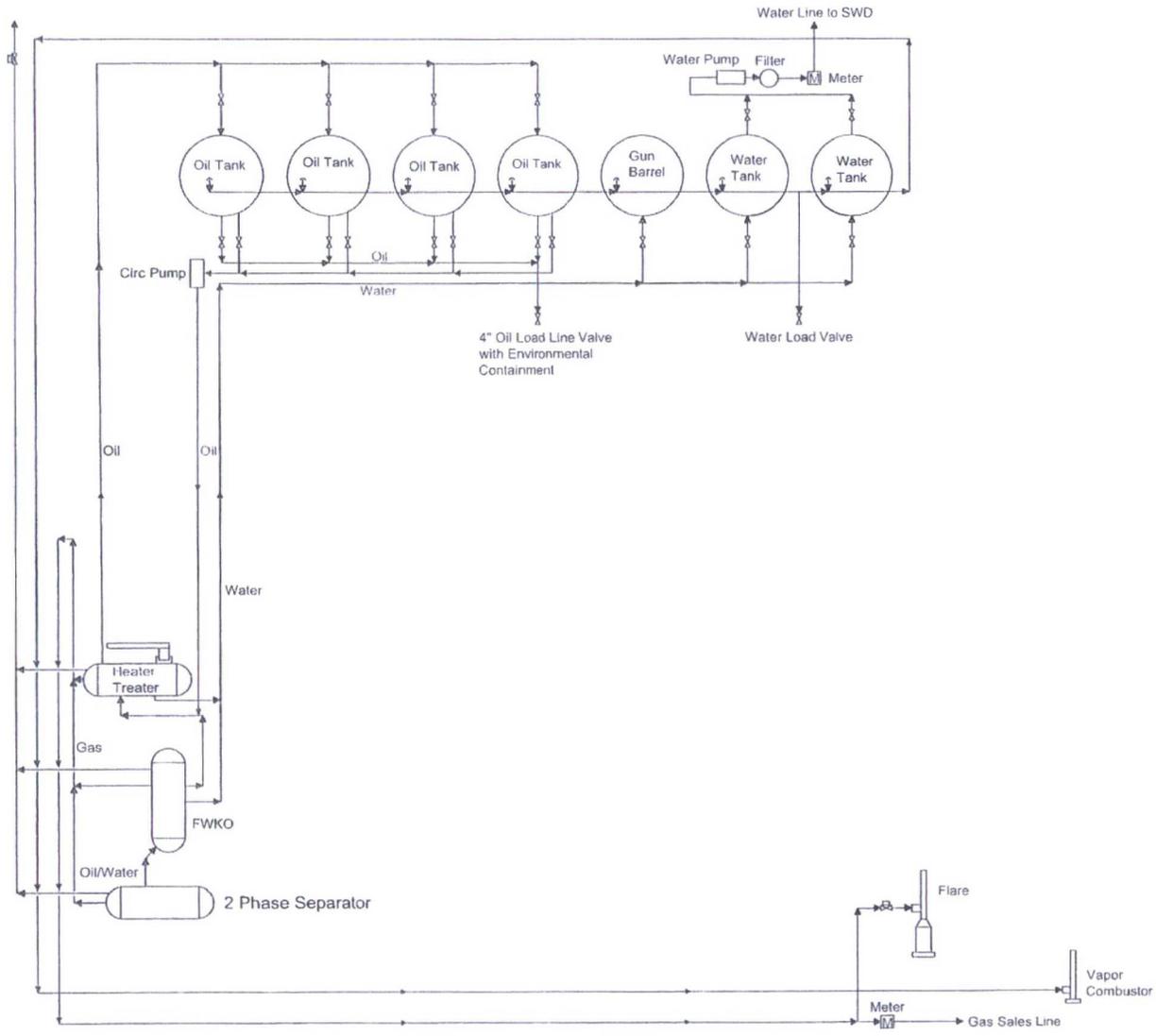
T 25 S

T 26 S

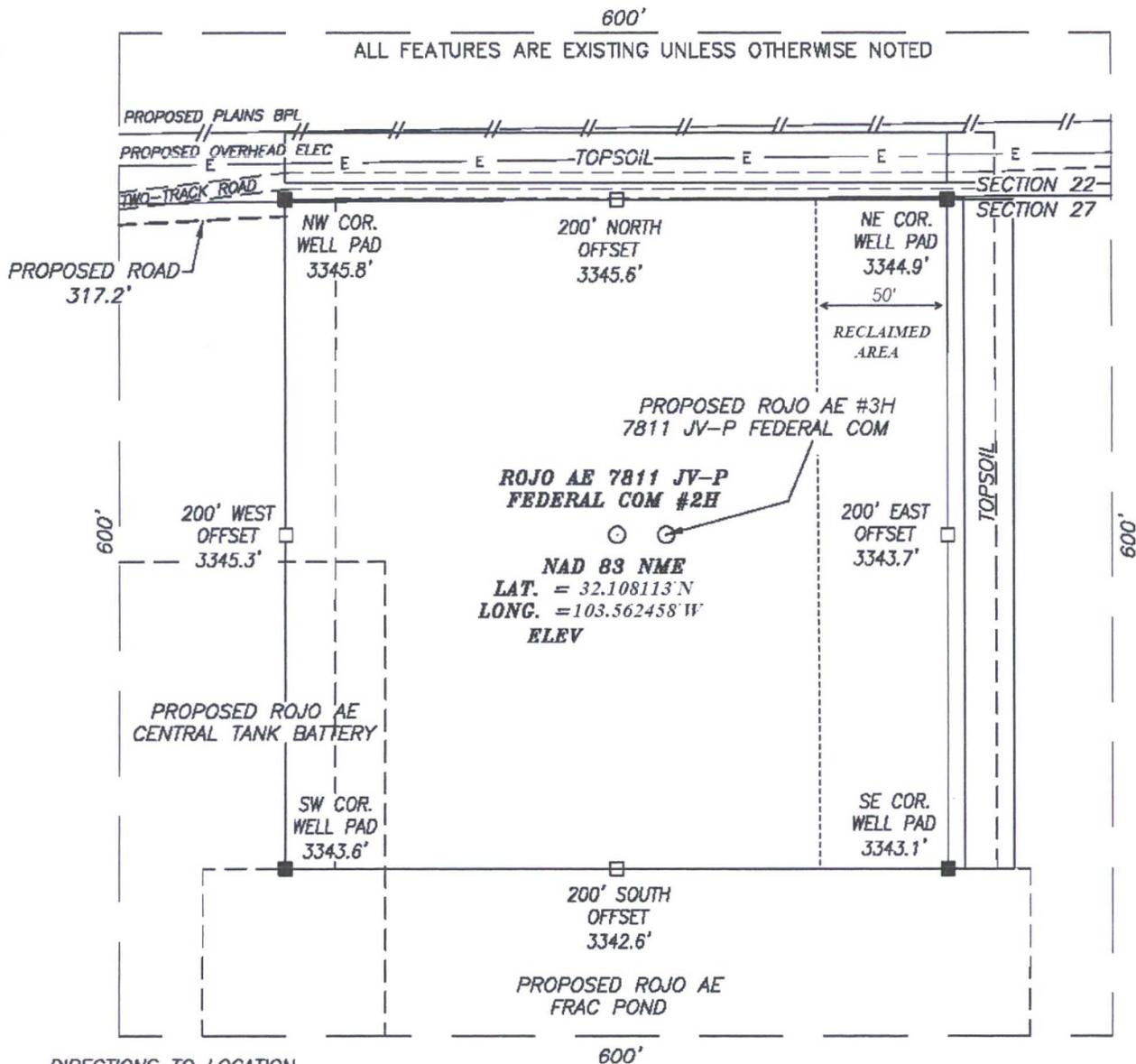


**H** HARCROW SURVEYING, LLC.  
 2314 W. MAIN ST, ARTESIA, NM 88210  
 PH: (575) 746-2158 FAX: (575) 746-2158  
 c.harcrow@harcrowsurveying.com

Production Facility Layout  
 Rojo AE 7811 JV-P Federal Com  
 Section 27-25S-33E  
 Lea County, New Mexico



SECTION 27, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY NEW MEXICO



DIRECTIONS TO LOCATION  
FROM THE INTERSECTION OF DINWIDDIE RD. AND BATTLE  
AXE RD. GO WEST APPROX. 1.1 MILES; THEN TURN RIGHT  
(NORTH) AND GO APPROX. 3.0 MILES TO A PROPOSED  
ROAD ON THE RIGHT. PROPOSED WELL IS APPROX. 1,420  
FEET EASTSOUTHEAST.

HARCROW SURVEYING, LLC  
2314 W. MAIN ST, ARTESIA, N.M. 88210  
PH: (575) 746-2158 FAX: (575) 746-2158  
c.harcrow@harcrowsurveying.com

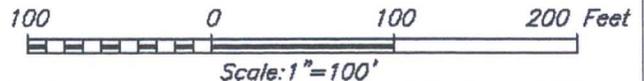


CERTIFICATION  
I, CHAD HARCROW, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY  
THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS  
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS  
SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW  
MEXICO.

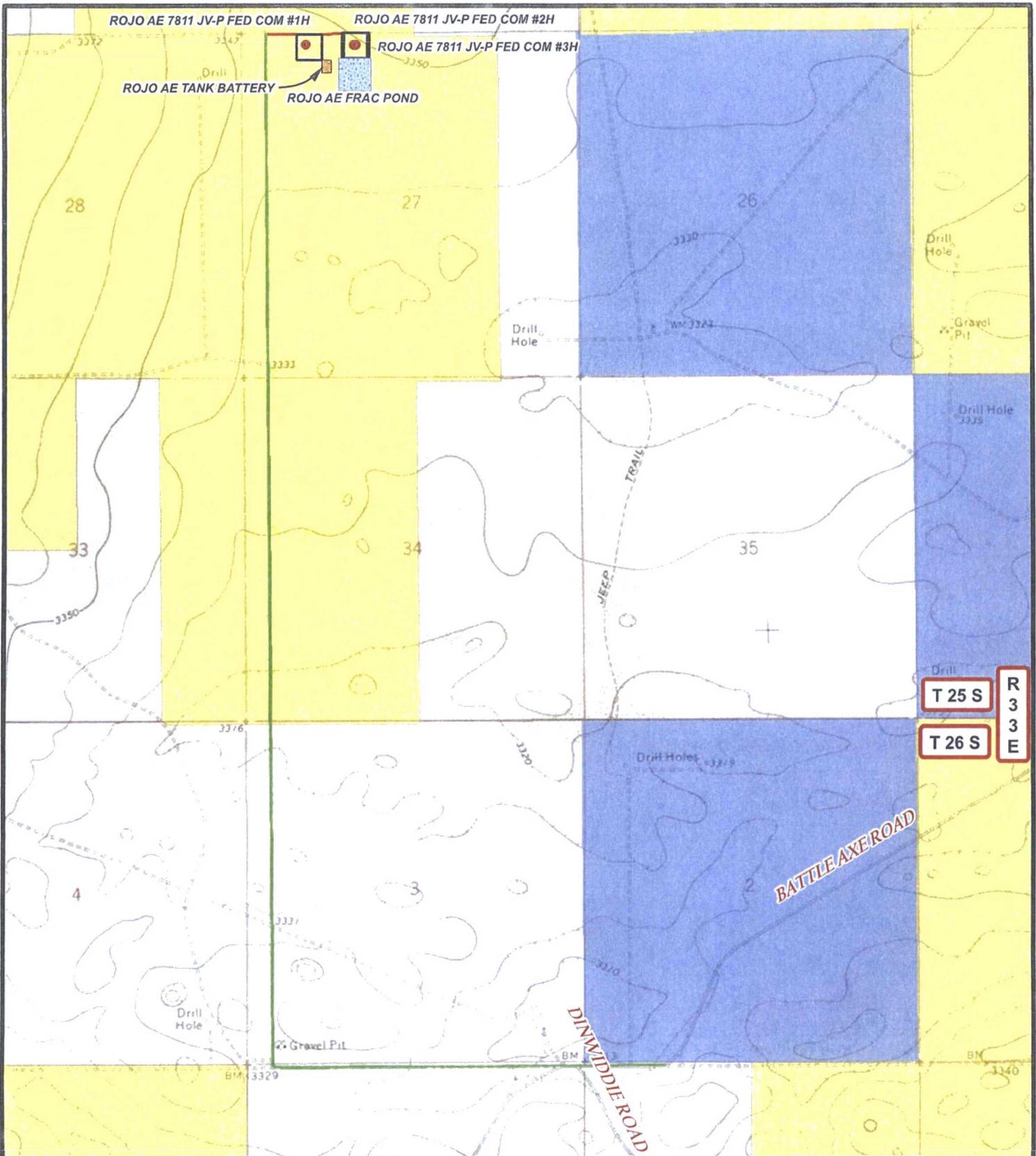


Chad Harcrow  
CHAD HARCROW N.M.P.S. NO. 17777

11/3/16  
DATE



<b>BTA OIL PRODUCERS, LLC</b>		
ROJO AE 7811 JV-P FEDERAL COM #2H LOCATED 200 FEET FROM THE NORTH LINE AND 1815 FEET FROM THE WEST LINE OF SECTION 27, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO		
SURVEY DATE: NOV. 1, 2016	PAGE: 1 OF 1	
DRAFTING DATE: NOV 2, 2016		
APPROVED BY: CH	DRAWN BY: JR	FILE: 16-869



**LEGEND**

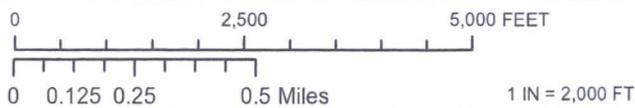
-  TANK BATTERY
-  FRAC POND
-  WELL
-  WELLPAD
-  EXISTING ROAD
-  PROPOSED ROAD
-  PRIVATE
-  STATE OF NM
-  US BLM

**ROJO AE TANK BATTERY**

SEC: 27 TWP: 25 S. RGE: 33 E. ELEVATION: 3344.0'

STATE: NEW MEXICO COUNTY: LEA 513' FNL & 1372' FWL

W.O. # 16-815 LEASE: ROJO AE SURVEY: N.M.P.M



LOCATION MAP LAND STATUS 10/19/2016 JR



OIL PRODUCERS



HARCROW SURVEYING, LLC.  
 2314 W. MAIN ST, ARTESIA, NM 88210  
 PH: (575) 746-2158 FAX: (575) 746-2158  
 c.harcrow@harcrowsurveying.com



## Section 1 - General

Would you like to address long-term produced water disposal? NO

## Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

### Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Assigned injection well API number?

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Injection well name:

Injection well API number:

## Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

## Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Bond Info Data Report

05/26/2017

### Bond Information

Federal/Indian APD: FED

BLM Bond number: NM1195

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: