



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

SUPO Data Report

06/01/2017

APD ID: 10400013080

Submission Date: 04/24/2017

Operator Name: ARMSTRONG ENERGY CORP

Well Name: LIZA JANE FEDERAL

Well Number: 1

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

17_368_VICINITY.mxd_04-04-2017.pdf

Existing Road Purpose: ACCESS, FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

17_369_ACCESS_ROAD_04-04-2017.pdf

New road type: LOCAL

Length: 3486

Feet

Width (ft.): 30

Max slope (%): 3

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 30

New road access erosion control: per BLM instructions during onsite

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Operator Name: ARMSTRONG ENERGY CORP

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Well Number: 1

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description:

Onsite topsoil removal process: scrape and stockpile on west side of location, seed immediately

Access other construction information: N/S portion of new road may be shifted 90'-120' to the east to accommodate BLM requested changes in battery layout

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER, WATERDIP

Drainage Control comments: road will be crowned, per BLM instructions during onsite

Road Drainage Control Structures (DCS) description: per BLM instructions during onsite

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Surrounding_Wells_04-13-2017.jpg

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description: Two 500bbl steel oil tanks on west edge of location, one 500bbl fiberglass water tank on west edge of location in line with oil tanks. Arranged to allow room for additional tanks of each. One 1MMBTU line heater, one 4'x20' heater treater, one 3 phase separator, all within the containment. Anticipate a dirt containment, sprayed with 30+mil containment liner, approximately 200'x60'. Two feet deep yields containment capacity of over 4200 bbl. Truck load lines and containment buckets will be within containment walls. Water transfer pump and circulating pump within containment walls.

Production Facilities map:

Llza_Jane_Fed__1_Site_Diagram_4_24_17_04-24-2017.pdf

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Well Number: 1

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
SURFACE CASING

Water source type: OTHER

Describe type: Contract water hauler utilizing multiple water sources
but primarily from Stearns in Crossroads, NM or from Lovington, NM

Source longitude: -103.339485

Source latitude: 33.512447

Source datum: NAD27

Water source permit type: WATER WELL

Source land ownership: PRIVATE

Water source transport method: TRUCKING

Source transportation land ownership: PRIVATE

Water source volume (barrels): 6000

Source volume (acre-feet): 0.7733586

Source volume (gal): 252000

Water source and transportation map:

Stearns_Water_map_04-13-2017.jpg

Water source comments: Various water haulers utilizing various private water sources located in Crossroads, NM or
Lovington, NM

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

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Additional information attachment:

Section 6 - Construction Materials

Construction Materials description:

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: cuttings will be captured in haul off bins and transported to Gandy Marly

Amount of waste: 35000 pounds

Waste disposal frequency : Daily

Safe containment description: Cuttings will be capture in roll off bins within the closed loop system

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** PRIVATE

Disposal type description:

Disposal location description: trucked to approved disposal facility, Gandy Marley Inc., disposal facility, permit number NM-01-0019

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? NO

Description of cuttings location

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

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WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Llza_Jane_Fed__1_Site_Diagram_4_24_17_04-24-2017.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Drainage/Erosion control construction: Grading, berms and large rocks will be used to minimize erosion during construction.

Drainage/Erosion control reclamation: Large rock will be used on high side of location to minimize erosion. Reclaimed areas will be reseeded as soon as possible to establish growth and minimize erosion.

Wellpad long term disturbance (acres): 1.2

Wellpad short term disturbance (acres): 1.9

Access road long term disturbance (acres): 2.4

Access road short term disturbance (acres): 2.4

Pipeline long term disturbance (acres): 0.08002755

Pipeline short term disturbance (acres): 0.3201102

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 3.6800275

Total short term disturbance: 4.62011

Reconstruction method: Pad that is reclaimed will be recontoured to original contour.

Topsoil redistribution: 6" of native topsoil will be scraped and winrowed on the West side of the location. Topsoil will be redistributed and reseeded on reclaimed portion of pad (70' of west side and 40' of north side) and what is not used will be seeded in place.

Soil treatment: topsoil will be reseeded upon both initial reclamation and final reclamation.

Existing Vegetation at the well pad: Buffalo grass, yucca, grama grass

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Buffalo grass, yucca, grama grass

Existing Vegetation Community at the road attachment:

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Existing Vegetation Community at the pipeline: Buffalo grass, yucca, grama grass

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances:

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name: Rocky

Last Name: Ray

Phone: (575)420-6371

Email: rocky@aecnrm.com

Seedbed prep:

Seed BMP:

Seed method:

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Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: spot spray of weeds on location and road only

Weed treatment plan attachment:

Monitoring plan description: visual monitoring of weeds on location and road, monitor reclaimed portions for growth

Monitoring plan attachment:

Success standards: Per BLM success standards

Pit closure description: Closed loop system will be used in lieu of open pits

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner: PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Operator Name: ARMSTRONG ENERGY CORP

Well Name: LIZA JANE FEDERAL

Well Number: 1

Fee Owner: ROY LEE AND WAVERLY CRISWELL **Fee Owner Address:** PO BOX 35

Phone: (575)914-5755

Email:

Surface use plan certification:

Surface use plan certification document:

Surface access agreement or bond:

Surface Access Agreement Need description:

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other Information

Right of Way needed? NO

Use APD as ROW?

ROW Type(s):

ROW Applications

SUPO Additional Information: archaeological survey attached here Surface Use Agreement with surface owner also attached here.

Use a previously conducted onsite? YES

Previous Onsite information: Onsite conducted 4/20/17. BLM requested we move battery from western edge of location to SE corner. This will require shifting the N/S portion of the access road 90' - 120' to the east in order to accommodate truck loading. This shift is not reflected on the attached new road survey and was approved verbally during the onsite.

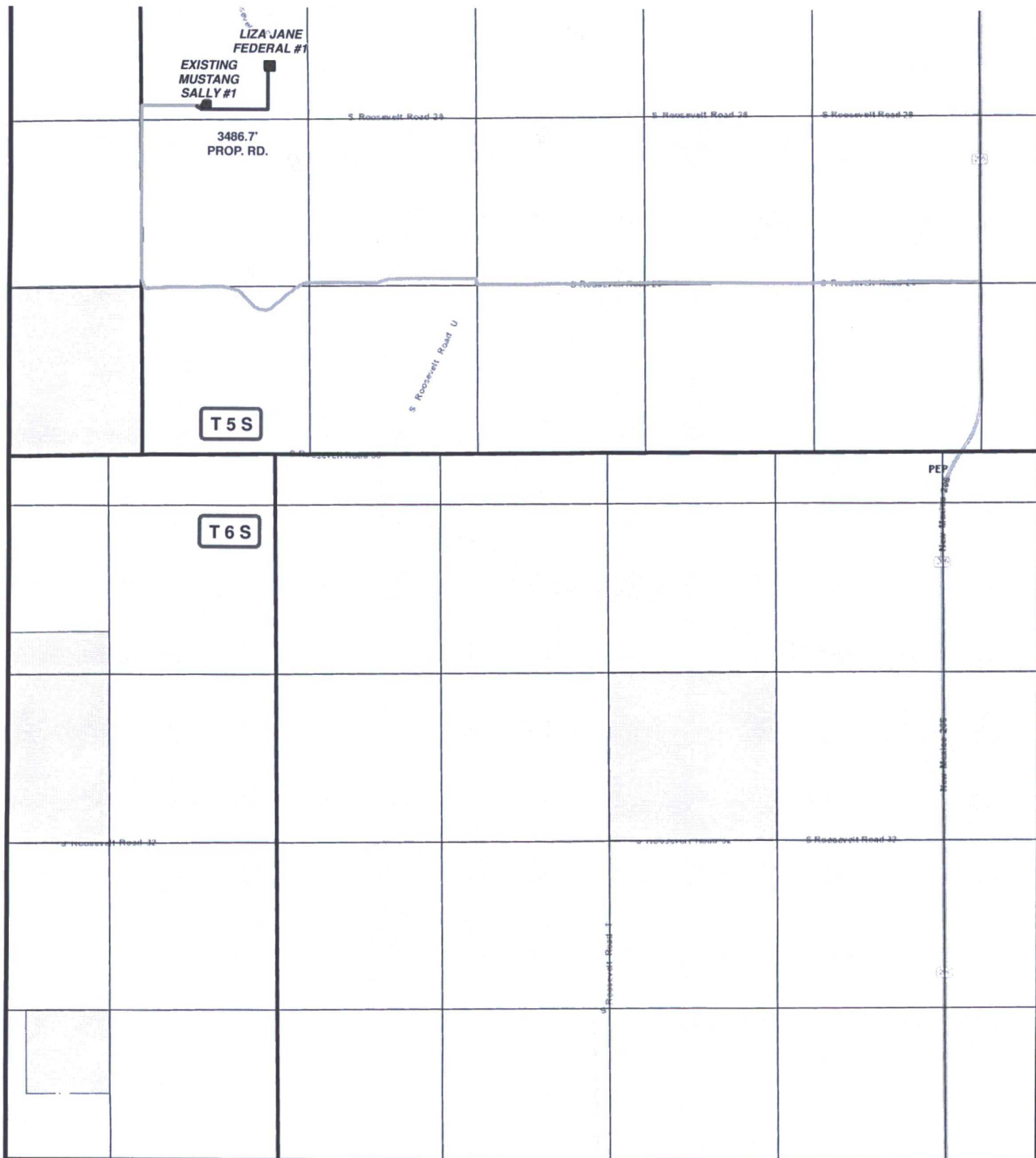
Other SUPO Attachment

OnsiteResults_LizaJaneFed1_04-24-2017.pdf

Liza_Jane_arch_survey_4_6_17_04-24-2017.pdf

Criswell_SUA_10_8_09_05-08-2017.pdf

THE
FEDERAL
BUREAU OF
INVESTIGATION
OF THE
DEPARTMENT OF JUSTICE
WASHINGTON, D. C.
20535



LEGEND

● WELL

□ WELLPAD

— EXISTING

— PROPOSED

LIZA JANE FEDERAL #1

SEC: 19 TWP: 5 S. RGE: 34 E. ELEVATION: 4331.2'

STATE: NEW MEXICO COUNTY: ROOSEVELT 1630' FSL & 1220' FEL

W.O. # 17-368 LEASE: LIZA JANE FED SURVEY: N.M.P.M

0 2,500 5,000 7,500 10,000 FEET

0 0.275 0.55 1.1 Miles

1 IN = 4,000 FT

VICINITY MAP

04/3/2017

V.D.



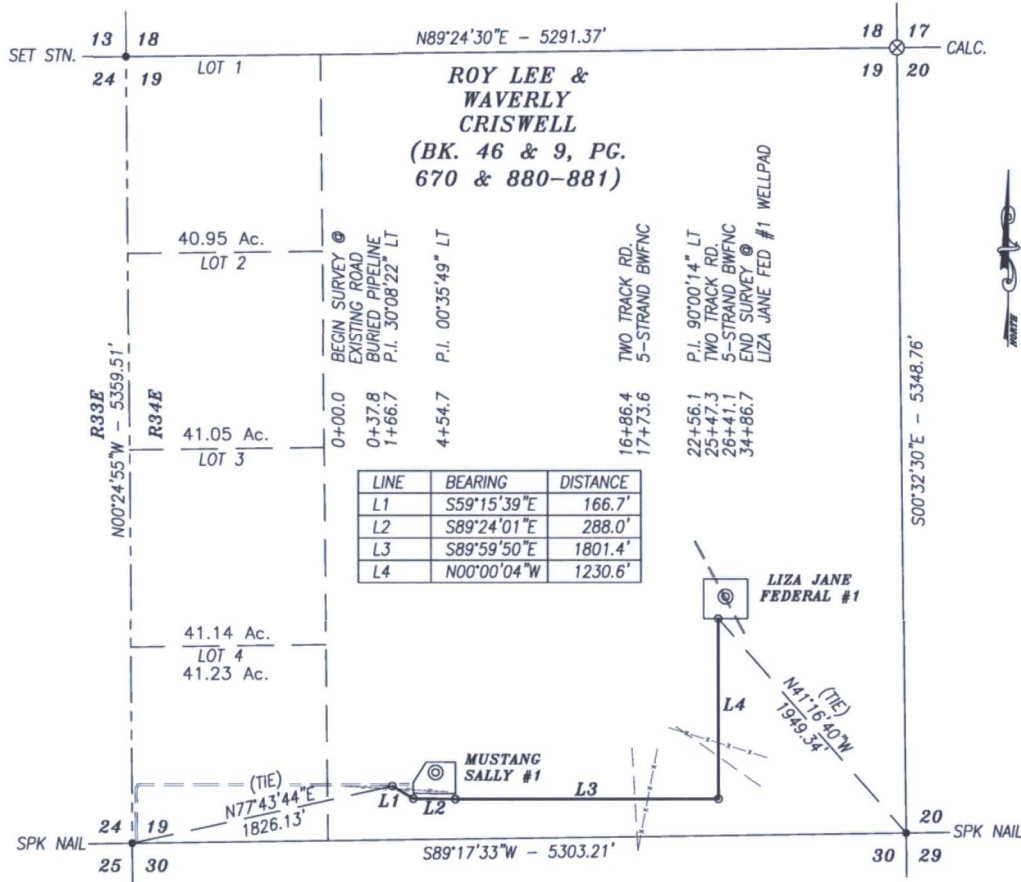
HARCROW SURVEYING, LLC.

2314 W. MAIN ST, ARTESIA, NM 88210

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

c.harcrow@harcrowsurveying.com

ACCESS ROAD PLAT
ARMSTRONG ENERGY CORPORATION
 A PROPOSED ACCESS ROAD FROM AN EXISTING LEASE ROAD
 TO THE LIZA JANE FEDERAL #1 IN
SECTION 19, TOWNSHIP 5 SOUTH, RANGE 34 EAST, N.M.P.M.,
 ROOSEVELT COUNTY, NEW MEXICO.



BASIS OF BEARING:
 BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

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

4/4/17
 DATE

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



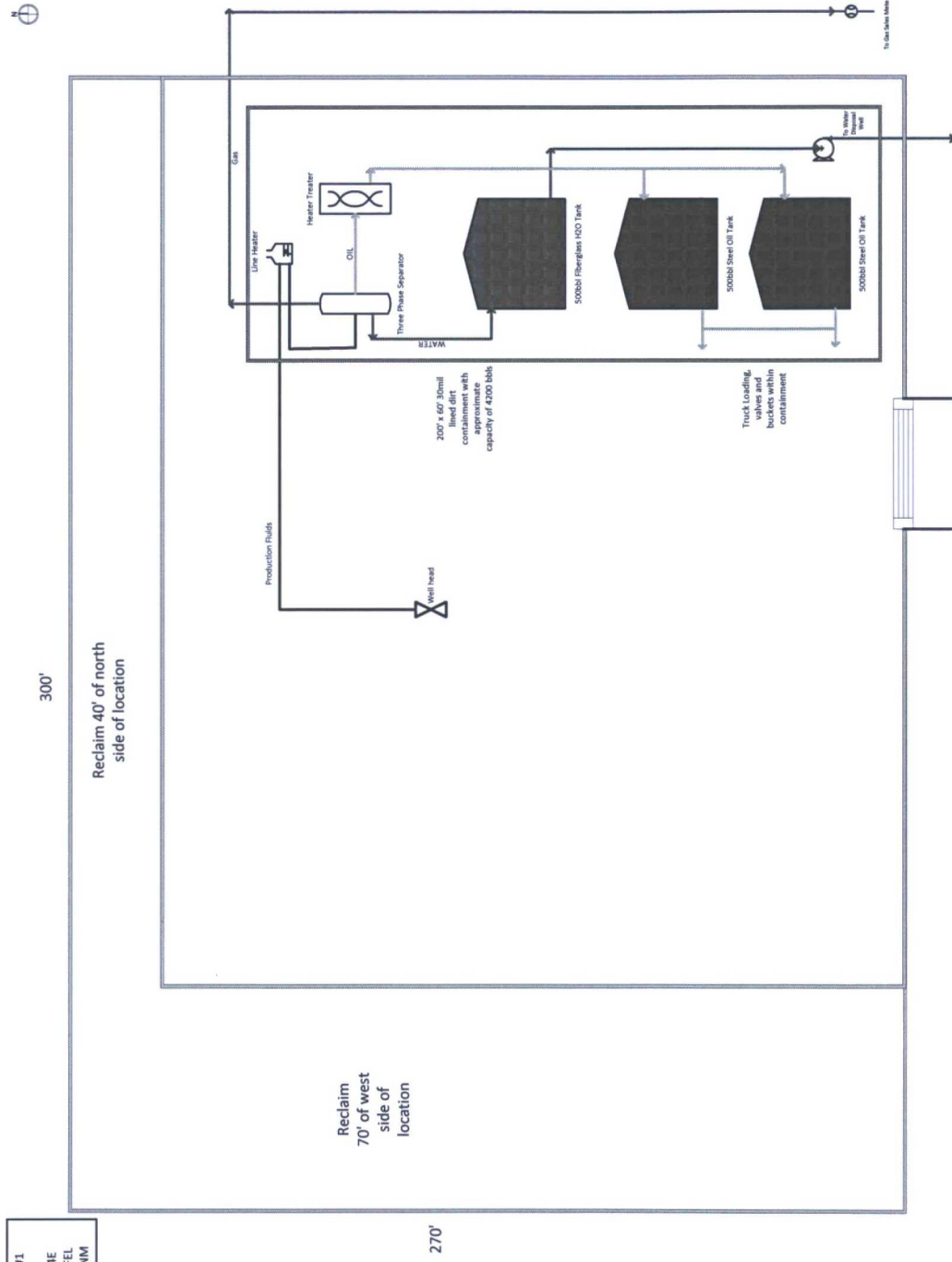
1000 0 1000 2000 FEET
 SCALE: 1"=1000'

ARMSTRONG ENERGY CORPORATION

SURVEY OF A PROPOSED ACCESS ROAD LOCATED IN SECTION 19, TOWNSHIP 5 SOUTH, RANGE 34 EAST, NMPM, ROOSEVELT COUNTY, NEW MEXICO

SURVEY DATE: MARCH 31, 2017	
DRAFTING DATE: APRIL 4, 2017	PAGE 1 OF 1
APPROVED BY: CH	DRAWN BY: VD
	FILE: 17-369

Liza Jane Federal #1
30-041-
Section 19 T5S R34E
1630' FSL & 1220' FEL
Roosevelt County, NM



Liza Jane Federal #1
30-041-
Section 19 T55 R34E
1630' FSL & 1220' FEL
Roosevelt County, NM

