

HOBBS OCD
OCT 30 2015

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H₂S Drilling Operations Plan

- a. All personnel will be trained in H₂S working conditions as required by Onshore Order 6 at least 500' before drilling into the Delaware Formation.
- b. Two briefing areas will be established. Each will be $\geq 150'$ from the wellhead, perpendicular from one another, and easily entered and exited. See H₂S Page 5 for more details.
- c. H₂S Safety Equipment/Systems:
 - i. Well Control Equipment
 - Flare line will be $\geq 150'$ from the wellhead and ignited by a flare gun.
 - Beware of SO₂ created by flaring.
 - Choke manifold will include a remotely operated choke.
 - Mud gas separator
 - ii. Protective Equipment for Personnel
 - Every person on site will wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hats. Monitors will be worn on the front of the waist or chest.
 - One self-contained breathing apparatus (SCBA) 30-minute rescue pack will be at each briefing area. Two 30-minute SCBA packs will be stored in the safety trailer.
 - Four work/escape packs will be on the rig floor. Each pack will have a long enough hose to allow unimpaired work activity.
 - Four emergency escape packs will be in the doghouse for emergency evacuation.
 - Hand signals will be used when wearing protective breathing apparatus.
 - Stokes litter or stretcher
 - Two full OSHA compliant body harnesses
 - A 100 foot long x 5/8 inch OSHA compliant rope
 - One 20 pound ABC fire extinguisher
 - iii. H₂S Detection & Monitoring Equipment
 - Every person on site will wear a personal H₂S and SO₂ monitor at all times while on site. Monitors will not be worn on hats. Monitors will be worn on the front of the waist or chest.
 - A stationary detector with 3 sensors will be in the doghouse.

- Sensors will be installed on the rig floor, bell nipple, and at the end of the flow line or where drilling fluids are discharged.
- Visual alarm will be triggered at 10 ppm.
- Audible alarm will be triggered at 10 ppm.
- Calibration will occur at least every 30 days. Gas sample tubes will be kept in the safety trailer.

iv. Visual Warning System

- Color-coded H₂S condition sign will be set at the entrance to the pad.
- Color-coded condition flag will be installed to indicate current H₂S conditions.
- Two wind socks will be installed that will be visible from all sides.

v. Mud Program

- A water based mud with a pH of ≥ 10 will be maintained to control corrosion, H₂S gas returns to the surface, and minimize sulfide stress cracking and embrittlement.
- Drilling mud containing H₂S gas will be degassed at an optimum location for the rig configuration.
- This gas will be piped into the flare system.
- Enough mud additives will be on location to scavenge and/or neutralize H₂S where formation pressures are unknown.

vi. Metallurgy

- All equipment that has the potential to be exposed to H₂S will be suitable for H₂S service.
- Equipment that will meet these metallurgical standards include the drill string, casing, wellhead, BOP assembly, casing head and spool, rotating head, kill lines, choke, choke manifold and lines, valves, mud-gas separators, DST tools, test units, tubing, flanges, and other related equipment (elastomer packing and seals).

vii. Communication

- Cell phones and/or 2-way radios will be used to communicate from the well site.

d. A remote controlled choke, mud-gas separator, and a rotating head will be installed before drilling or testing any formation expected to contain H₂S.

Company (281 847-6000) Personnel to be Notified

| | |
|----------------------------------|--|
| Mark Beach, Drilling Manager | Office: (281) 674-2019 Mobile: (281) 546-7665 |
| Buddy Novak, Operations Engineer | Office: (281) 674-2449 Mobile: (713) 254-5418 |
| Mark Prediger, Safety Manager | Office: (281) 674-2870 Mobile: (281) 798-5810 |

Local & County Agencies

| | |
|--|-----------------------|
| Monument Fire Department | 911 or (575) 395-2221 |
| Hobbs Fire Marshal | (575) 391-8185 |
| Lea County Sheriff (Lovington) | 911 or (575) 396-3611 |
| Lea County Emergency Management (Lovington) | (575) 396-8602 |
| Lea Regional Medical Center Hospital (Hobbs) | (575) 492-5000 |

State Agencies

| | |
|---|----------------|
| NM State Police (Hobbs) | (575) 392-5588 |
| NM Oil Conservation (Hobbs) | (575) 370-3186 |
| NM Oil Conservation (Santa Fe) | (505) 476-3440 |
| NM Department of Transportation (Roswell) | (575) 637-7201 |

Federal Agencies

| | |
|---------------------------|----------------------------------|
| BLM Carlsbad Field Office | (575) 234-5972 |
| BLM Hobbs Field Station | (575) 393-3612 |
| National Response Center | (800) 424-8802 |
| US EPA Region 6 (Dallas) | (800) 887-6063 (214) 665-6444 |

Veterinarians

| | |
|---|----------------|
| Dal Paso Animal Hospital (Hobbs) | (575) 397-2286 |
| Hobbs Animal Clinic & Pet Care (Hobbs) | (575) 392-5563 |
| Great Plains Veterinary Clinic & Hospital (Hobbs) | (575) 392-5513 |

Residents within 2 miles

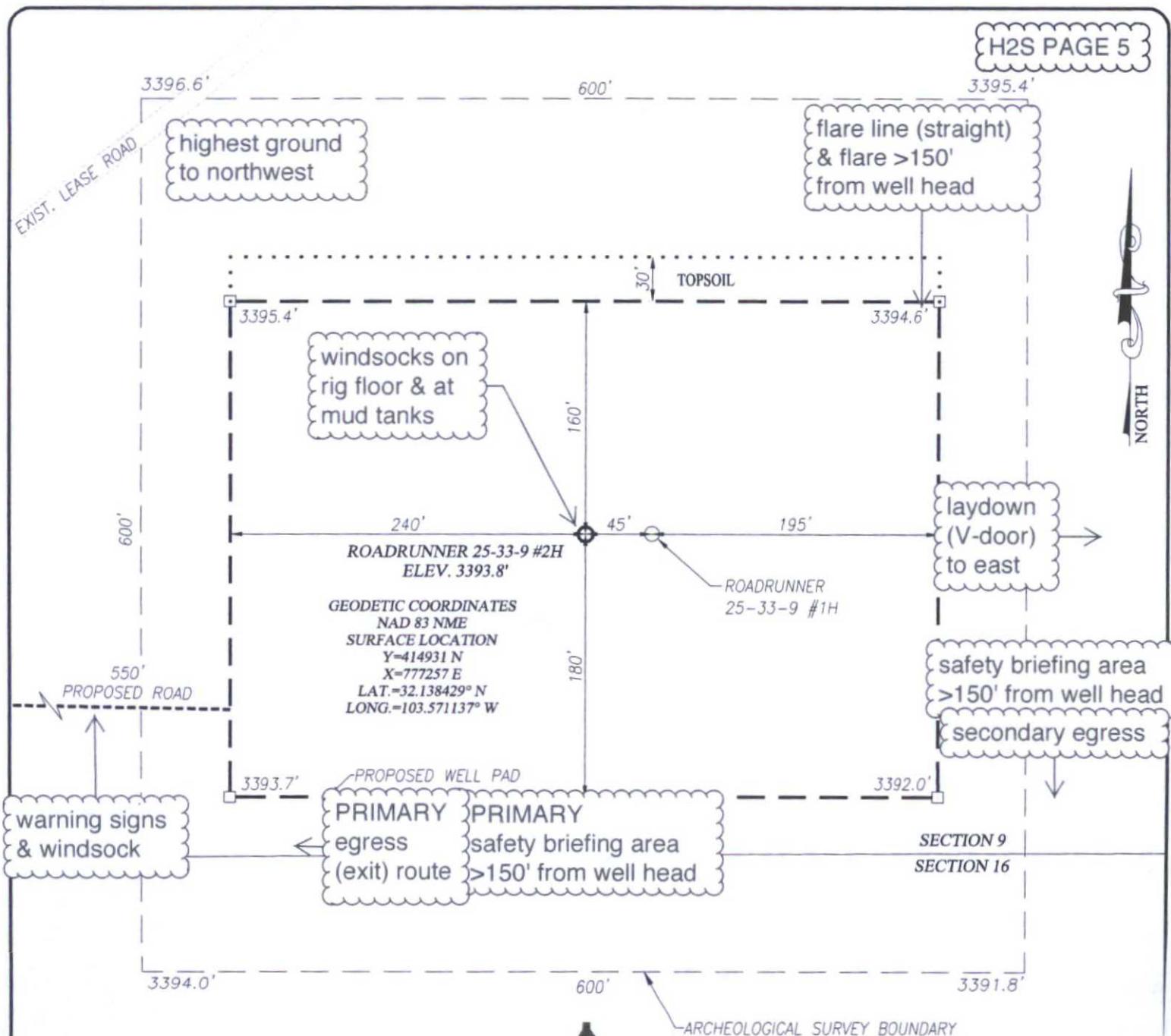
Mark T. McCloy (575 398-1035) has a house that is 1.6 miles NE of the well.

Air Evacuation

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|--|----------------|
| Med Flight Air Ambulance (Albuquerque) | (800) 842-4431 |
| Lifeguard (Albuquerque) | (888) 866-7256 |

Contractors

| | |
|-------------------------------|----------------|
| Axiom Medical (Houston) | (877) 502-9466 |
| Basic Energy (Artesia) | (575) 746-2217 |
| Baker Hughes (Hobbs) | (575) 392-5556 |
| DXP Safety (Hobbs) | (575) 393-9188 |
| DXP Safety (Odessa) | (800) 530-8693 |
| Indian Fire & Safety (Hobbs) | (575) 393-3093 |
| Key Energy (Carlsbad) | (575) 885-2053 |
| M-I SWACO (Midland) | (432) 742-5627 |
| Petro Safety (Tyler) | (903) 939-9087 |
| Safety International (Odessa) | (432) 580-3770 |

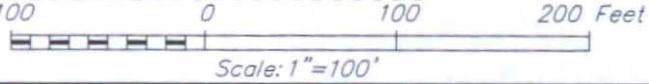


DIRECTIONS TO ROADRUNNER 25-33-9 #2H:

FROM THE INTERSECTION OF ST. HIGHWAY 128 AND CO. RD. 21 (DELAWARE RD.), GO WEST ON ST. HIGHWAY 128 APPROX. 1.4 MILES. TURN LEFT AND GO SOUTH ON CO. RD. 2 (VACA RD.), APPROX. 200 FEET. FOLLOW ROAD LEFT THEN SOUTHEAST APPROX. 2.2 MILES. TURN RIGHT AND GO SOUTHWEST APPROX. 1.15 MILES. TURN LEFT AND GO SOUTH THROUGH CATTLE GUARD APPROX. 0.1 MILE. VEER RIGHT AND GO SOUTHWEST APPROX. 0.8 MILES. TURN LEFT AND GO SOUTHEAST APPROX. 0.1 MILE. TURN RIGHT AND GO SOUTHWEST APPROX. 0.7 MILES. TURN RIGHT AND GO APPROX. 150 FEET WEST. TURN LEFT AND GO SOUTH APPROX. 0.15 MILE. TURN RIGHT AND GO WEST APPROX. 0.5 MILES. TURN LEFT AND GO SOUTHWEST APPROX. 0.8 MILES TO STAKED ROAD. FOLLOW ACCESS ROAD 550 FEET TO THE LOCATION.



NOTE:
1) SEE "LOCATION VERIFICATION MAP" FOR PROPOSED ROAD LOCATION.



ROADRUNNER OIL AND GAS, LLC

ROADRUNNER 25-33-9 #2H WELL
LOCATED 220 FEET FROM THE SOUTH LINE AND 730 FEET FROM THE EAST LINE OF SECTION 9, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000

| | | |
|----------------------|------------------|------------------|
| Survey Date: 8/06/14 | CAD Date: 7/3/14 | Drawn By: ACK/DS |
| W.O. No.: 14110580 | Rev: 8/18/14 | Rel. W.O.: |
| | | Sheet 1 of 1 |

Roadrunner Oil & Gas, LLC

Road Runner Federal 25-33-9 #2H
H2S Contingency Plan:
1 Mile Radius Map

Section 9, Township 25S, Range 33E
Lea County, New Mexico

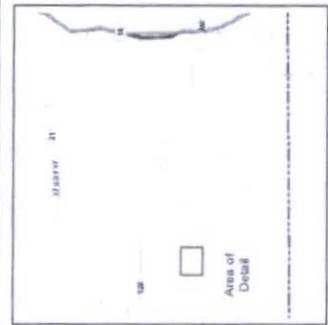
⊙ Road Runner 25-33-9 #2H



NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PIERCE
WEST
INCORPORATED

Prepared by Pierce West, Inc., November 17, 2014
for Roadrunner Oil & Gas, LLC



Roadrunner Oil & Gas, LLC

Road Runner Federal 25-33-9 #2H
H2S Contingency Plan:
2 Mile Radius Map

Section 9, Township 25S, Range 33E
Lea County, New Mexico

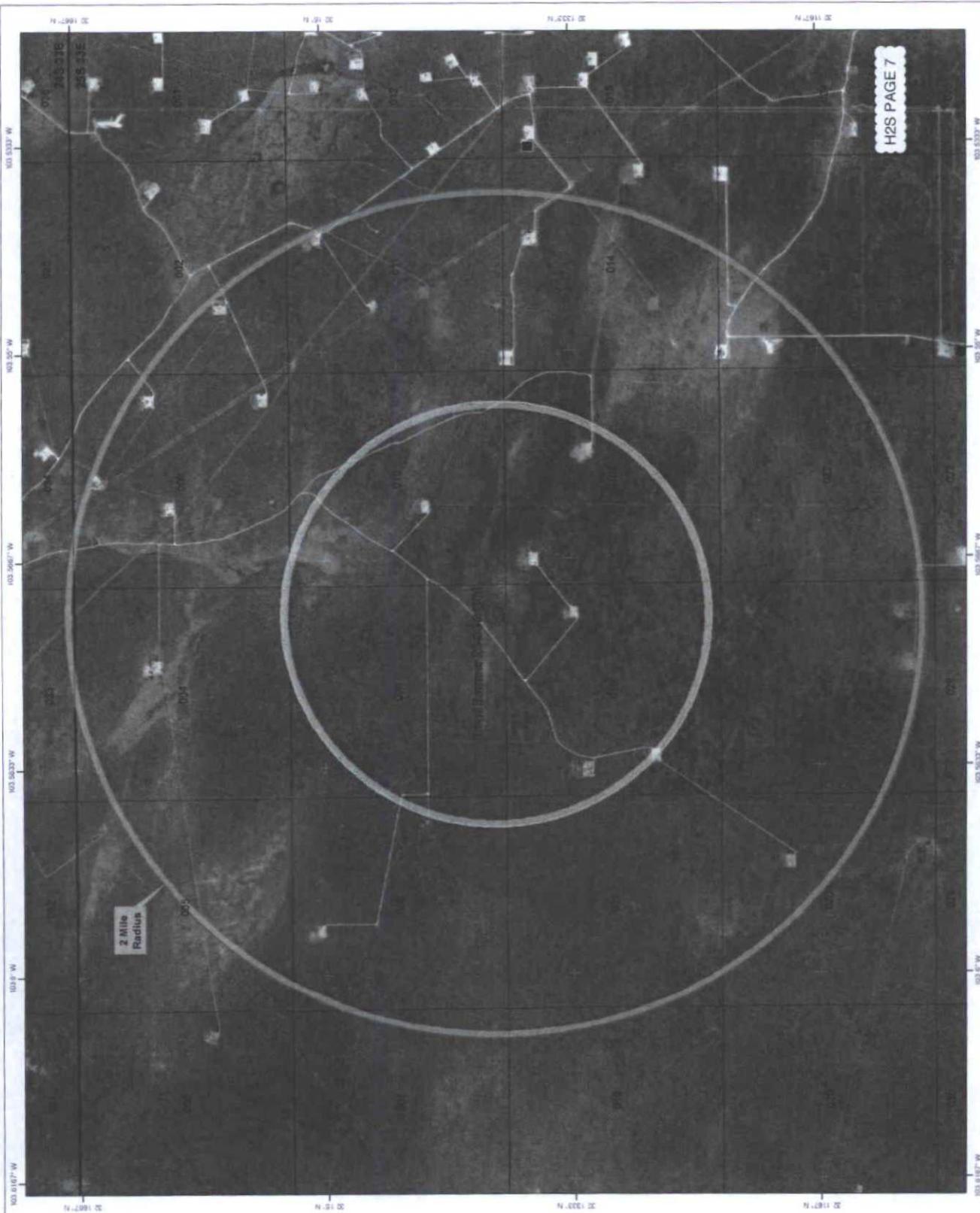
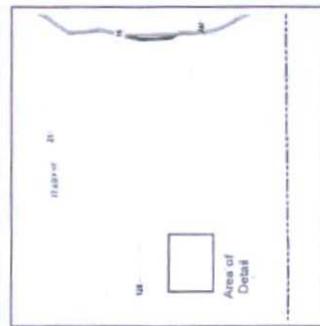
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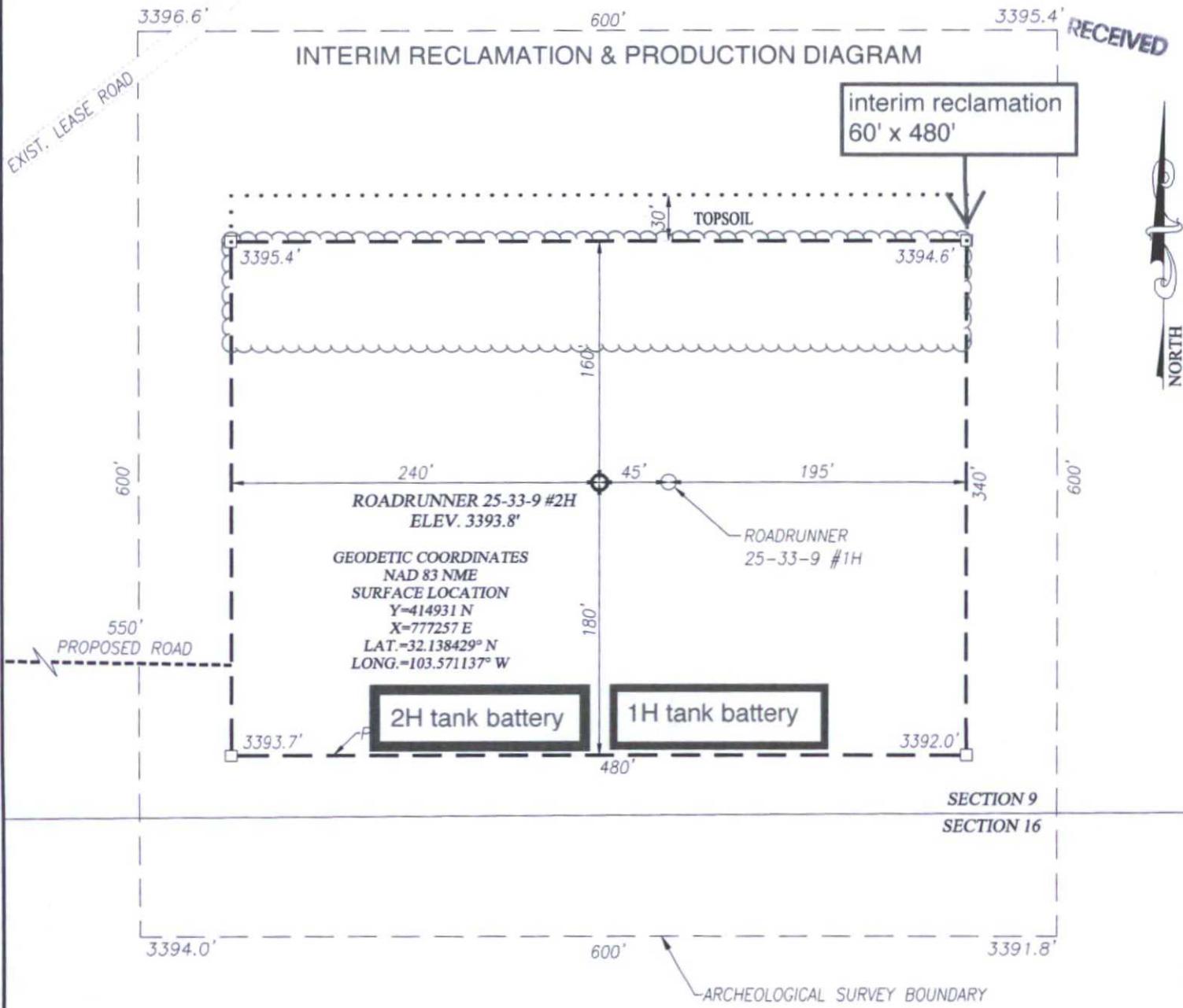
PERMIT WEST
CONSULTING ENGINEERS

Prepared by Permits West, Inc., November 17, 2014
for Roadrunner Oil & Gas, LLC



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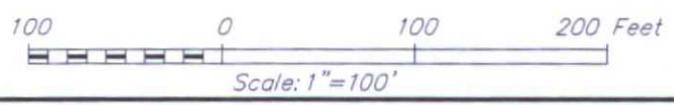
INTERIM RECLAMATION & PRODUCTION DIAGRAM



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