

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED

DEC 14 2009

NMOCD ARTESIA

5. Lease Designation and Serial No

NM 018626

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

SPITFIRE 25-1

9. API Well No.

30-015-25450

10. Field and Pool, or Exploratory Area

LOSS DRAW

11. County or Parish, State

EDDY CO NM

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

CRW-CORP

3. Address and Telephone No.

Box 994 MIDLAND TX 79702 432-683-2200

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SPITFIRE 25-1 S25 R30E T26S

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other ROAD CONSTRUCTION
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BUILD NEW ACCESS ROAD TO CRW CORP SPITFIRE
FED "25" #1 FROM CRW CORP AMOCO FED #2
IN SECTION 25 RANGE 30E T26S IN LEASE NM-018626
ALL WORK WILL BE ON LEASE

14. I hereby certify that the foregoing is true and correct

Signed

Charles Palmer

Title

Agent

Date

12/09/09

(This space for Federal or State office use)

Approved by

/s/ Don Peterson

Title

Date

DEC 10 2009

Conditions of approval, if any:

**BUREAU OF LAND MANAGEMENT
CASE RECORDATION
(LIVE) SERIAL REGISTER PAGE**

Run Date/Time: 05/28/09 03:23 PM

Page 1 of 1

01 10-21-1976;090STAT2776;43USC1761

Total Acres
1.721

Serial Number
NMNM-- - 063142

Case Type 281001: ROW-ROADS

Commodity 971: NON-ENERGY FACILITIES

Case Disposition: AUTHORIZED

Serial Number: NMNM-- - 063142

Name & Address	Int Rel	%Interest
EARL M CRAIG CORP PO BOX 1351 MIDLAND TX 79702	HOLDER	100.000000000

Serial Number: NMNM-- - 063142

Mer Twp Rng	Sec	SType	Nr Suff	Subdivision	District/Resource Area	County	Mgmt Agency
23	0260S	0300E	025	ALIQ	W2SE;	CARLSBAD FO	EDDY BUREAU OF LAND MGMT

Serial Number: NMNM-- - 063142

Act Date	Code	Action	Action Remarks	Pending Office
10/22/1985	124	APLN RECD		
10/23/1985	065	COST RECOV (MON) RECD	\$20.00;	
10/23/1985	971	COST RECOV (PROC) RECD	\$50.00;	
12/05/1985	307	ROW GRANTED-ISSUED		
12/05/1985	501	REFERENCE NUMBER	RD-"25" SPITFIRE #1;	
12/05/1985	502	LENGTH IN FEET	2497.44;	
12/05/1985	504	WIDTH IN FEET (TOTAL)	30;	
07/29/1989	974	AUTOMATED RECORD VERIF	AAG/ML;	
06/06/1994	974	AUTOMATED RECORD VERIF	CAC/CS;	
12/05/2007	853	COMPL/REVIEW DUE DATE		
12/23/2008	111	RENTAL RECEIVED	\$72.80;FY/09-15	
12/05/2015	763	EXPIRES		

Line Nr Remarks

Serial Number: NMNM-- - 063142

0002 OFF LEASE ACCESS RD;

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No: 115591	2a. Lead (Sponsoring) Agency: Bureau of Land Management	2b. Other Permitting Agencies: State of New Mexico	3. Lead Agency Report No.:
4. Title of Report: Class III Archaeological Survey for CRW Corporation's Proposed Access Road to Serve the Spitfire "25" No. 1 Well Author: Stephen Smith			5. Type of Report <input checked="" type="checkbox"/> Negative <input type="checkbox"/> Positive
6. Investigation Type <input type="checkbox"/> Research Design <input checked="" type="checkbox"/> Survey/Inventory <input type="checkbox"/> Test Excavation <input type="checkbox"/> Excavation <input type="checkbox"/> Collections/Non-Field Study <input type="checkbox"/> Overview/Lit Review <input type="checkbox"/> Monitoring <input type="checkbox"/> Ethnographic study <input type="checkbox"/> Site specific visit <input type="checkbox"/> Other			
7. Description of Undertaking (what does the project entail?): CRW Corporation plans to construct an access road to serve the Spitfire "25" No. 1 well. October 15, 2009, Stephen Smith with Boone Archaeological Services conducted an extensive pedestrian cultural survey for the proposed access road. The proposed access road begins at an existing well pad and extends 1,780 ft, ending at the drill stem of the Spitfire "25" No. 1 well. The proposed access road was staked by the client. Because there were no plats submitted for the proposed access road, the entire length of the access road was surveyed. All measurements and location were derived with a Garmin 12 hand-held GPS unit and are approximate. A total of 4.09 acres was surveyed, all of which is on land administered by the BLM-CFO.			8. Date of Investigation: October 15, 2009
			9. Report Date: October 16, 2009
10. Performing Agency/Consultant: Boone Archaeological Services, LLC Principal Investigator: Danny Boone Field Supervisor: Stephen Smith Field Personnel Name: Stephen Smith			11. Performing Agency/Consultant Report No.: BAS 10-09-18
			12. Applicable Cultural Resource Permit No's: BLM: 190-2920-09-L State: NM-09-157-S
13. Client/Customer (project proponent): CRW Corporation Contact: Darell Folmar Address: PO Box 994 Midland, Texas 79702 Phone: (575) 885-0906			14. Client/Customer Project No.:
15. Land Ownership Status (<u>Must</u> be indicated on project map):			
Land Owner		Acres Surveyed	Acres in APE
Bureau of Land Management		4.09	1.23
TOTALS		4.09	1.23
16. Records Search:			
Date of ARMS File Review: 10-15-09		Name of Reviewer: Stephen Smith	
Date of NR/SR File Review:		Name of Reviewer:	
Date of Other Agency File Review : 10-14-09		Name of Reviewer: Stephen Smith	
		Agency: BLM-CFO	
Findings: During the course of the pre-field research for this project it was learned that three previously recorded sites are plotted within 0.25 mile of the proposed access road. Two previously recorded sites plotted within 500 ft of the project area, LA 55036 and LA 109785.			
17. Survey Data:			
a. Source Graphics <input checked="" type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83			
<input checked="" type="checkbox"/> USGS 7.5' (1:24,000) topo map <input type="checkbox"/> Other topo map, Scale:			
<input checked="" type="checkbox"/> GPS Unit Accuracy <input type="checkbox"/> <1.0m <input checked="" type="checkbox"/> 1-10m <input type="checkbox"/> 10-100m <input type="checkbox"/> >100m			
b. USGS 7.5' Topographic Map Name		USGS Quad Code	
Phantom Banks, NM (1968)		32103-A7	
c. County: Eddy			

3

17. Survey Data (continued):d. Nearest City or Town: **Malaga, NM**

e. Legal Description:

Township (N/S)	Range (E/W)	Section	1/4	1/4	1/4
26 South	30 East	25	SW1/4NW1/4NE1/4, NW1/4SW1/4NE1/4		

Projected legal description? Yes ☒ , No ☐ Unplatted ☐

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.): No plats for the proposed access road were submitted by CRW Corporation.

18. Survey Field Methods:Intensity: ☒ 100% coverage ☐ <100% coverageConfiguration: ☐ block survey units ☒ linear survey units (l x w): **1,780 ft @ 100 ft width** ☐ other survey unitsScope: ☒ non-selective (all sites recorded) ☐ selective/thematic (selected sites recorded)Coverage Method: ☒ systematic pedestrian coverage ☐ other method (describe)Survey Interval (m): 15 meters Crew Size: 1 Fieldwork Date: **October 15, 2009**

Survey Person Hours: 1.25 hours Recording Person Hours: N/A Total Hours: 1.25 hours

Additional Narrative: None

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):Topography: **Sandy/loamy soil/shallow to caliche, alluvial fan along southwest margins of Phantom Banks**Elevation: **3,060 ft**Vegetation: **Creosote, mesquite, broom weed, yucca, pencil cholla, prickly pear, & various grasses**Visibility: **55-65 percent due to vegetative cover**NRCS: Simona-Pajarito association: **Sandy, deep soils and soils that are shallow to caliche; from wind-worked deposits**20. a. Percent Ground Visibility: **55-65 percent due to vegetative cover**b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): **The project area has been impacted by a lease road, two well locations, water erosion (heavy sheet wash impact in areas), a fence line, and by cattle grazing.**21. CULTURAL RESOURCE FINDINGS ☐ Yes, See Page 3 ☒ No, Discuss Why: **The reason no cultural resources were observed is possibly because no lithic sources or natural resources were available in the immediate area.****22. Required Attachments (check all appropriate boxes):**☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn☒ Copy of NMCRIS Mapserver Map Check☐ LA Site Forms - new sites (*with sketch map & topographic map*)☐ LA Site Forms (update) - previously recorded & un-relocated sites (*first 2 pages minimum*)☐ Historic Cultural Property Inventory Forms☐ List and Description of Isolates, if applicable☐ List and Description of Collections, if applicable**23. Other Attachments:**☐ Photographs and Log☐ Other Attachments

(Describe):

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Responsible Archaeologist: **Stephen Smith**Signature _____ Date _____ Title: **Field Supervisor****25. Reviewing Agency:**

Reviewer's Name/Date

Accepted () Rejected ()

Tribal Consultation (if applicable): ☐ Yes ☐ No**26. SHPO**

Reviewer's Name/Date:

HPD Log #:

SHPO File Location:

Date sent to ARMS:

a

CULTURAL RESOURCE FINDINGS*[fill in appropriate section(s)]*

1. NMCRIS Activity No.:	2. Lead (Sponsoring) Agency: BLM-CFO	3. Lead Agency Report No.:
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SURVEY RESULTS:

Sites discovered and registered: 0
 Sites discovered and NOT registered: 0
 Previously recorded sites revisited *(site update form required)*: 0
 Previously recorded sites not relocated *(site update form required)*: 0
 TOTAL SITES VISITED: 0
 Total isolates recorded: 0 Non-selective isolate recording? 0
 Total structures recorded *(new and previously recorded, including acequias)*: 0

MANAGEMENT SUMMARY: Because no cultural resources were encountered during the course of this survey, CRW Corporation's proposed access road is recommended as currently staked. If cultural resources are encountered during any construction related activity, construction should cease and an archaeologist with the BLM should be immediately notified.

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG

Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

MONITORING LA NUMBER LOG *(site form required)*

Sites Discovered *(site form required)* : Previously recorded sites *(Site update form required)*:

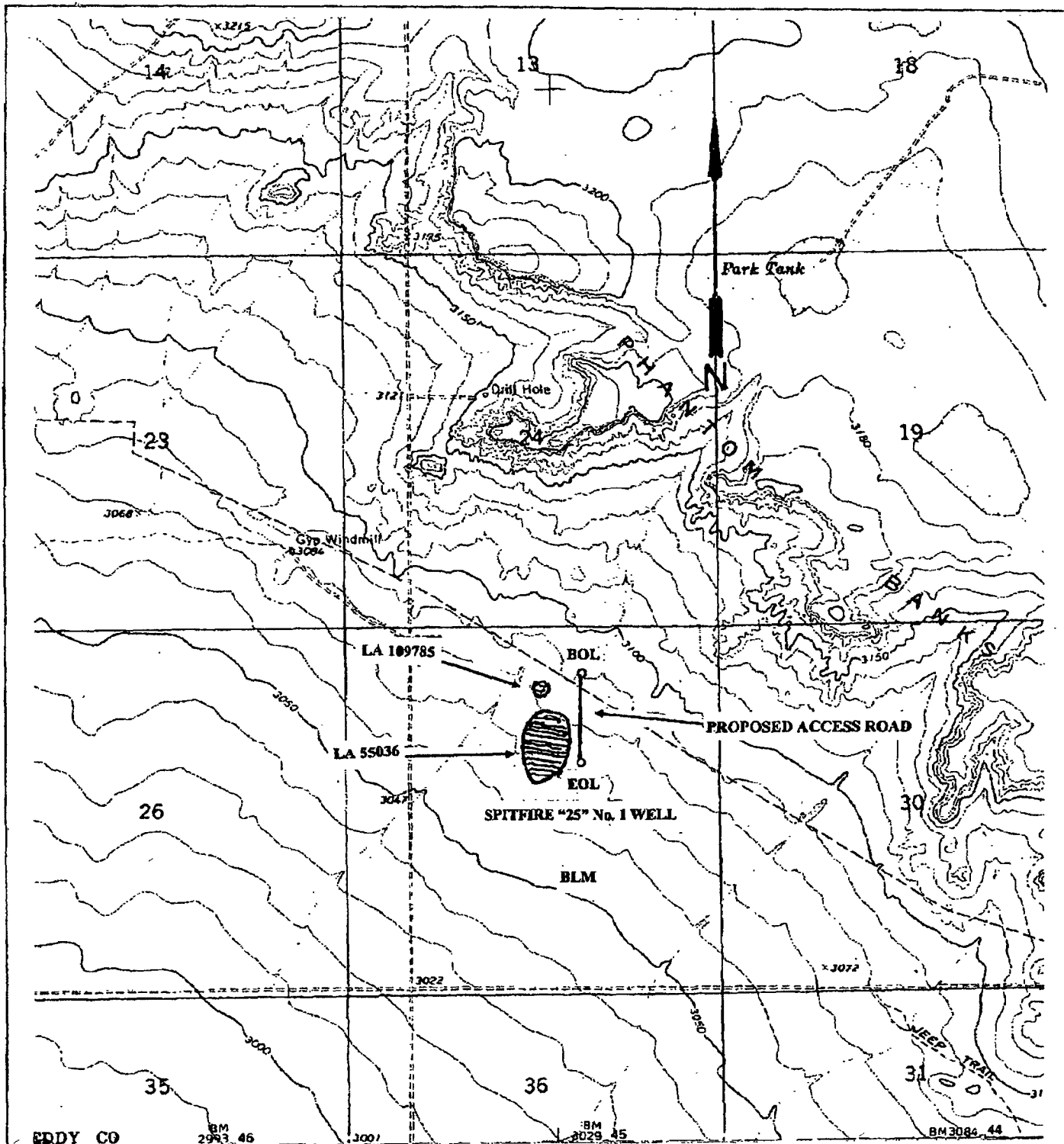
LA No.	Field/Agency No.	LA No.	Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes ☐, No ☐ If no explain why:

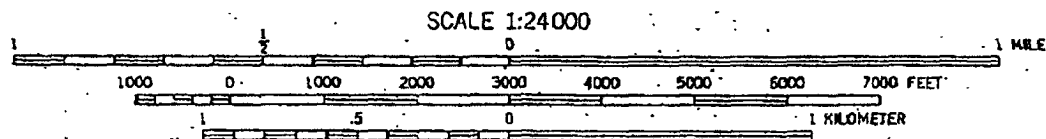
TESTING & EXCAVATION LA NUMBER LOG *(site form required)*

Tested LA number(s)	Excavated LA number(s)

10



Location Map: Class III Archaeological Survey for CRW Corporation's Proposed Access Road to Serve the Spitfire "25" No. 1 Well in Section 25, T 26S, R 30E, NMPM, Eddy County, New Mexico. Map Reference: USGS 7.5' Series, Phantom Banks, NM (1968) 32103-A7



015

014

013

018

EL PASO 14 FEDERAL #001

SUN EX FEDERAL UNIT #002

SUN EX FEDERAL UNIT #002

EL PASO 13 FEDERAL #001

SPITFIRE 18 #001

EL PASO 23 FEDERAL #002

SPITFIRE 19 #001

022

023

019

NM-018626

EL PASO 23 FEDERAL #001

ROSS DRAW UNIT #022

PHANTOM DRAW FEDERAL UNIT #004

027

026

ROSS DRAW UNIT #025

ROSS DRAW UNIT #014

ROSS DRAW UNIT #007

NM027650

ROSS DRAW UNIT #028

ROSS DRAW UNIT #028

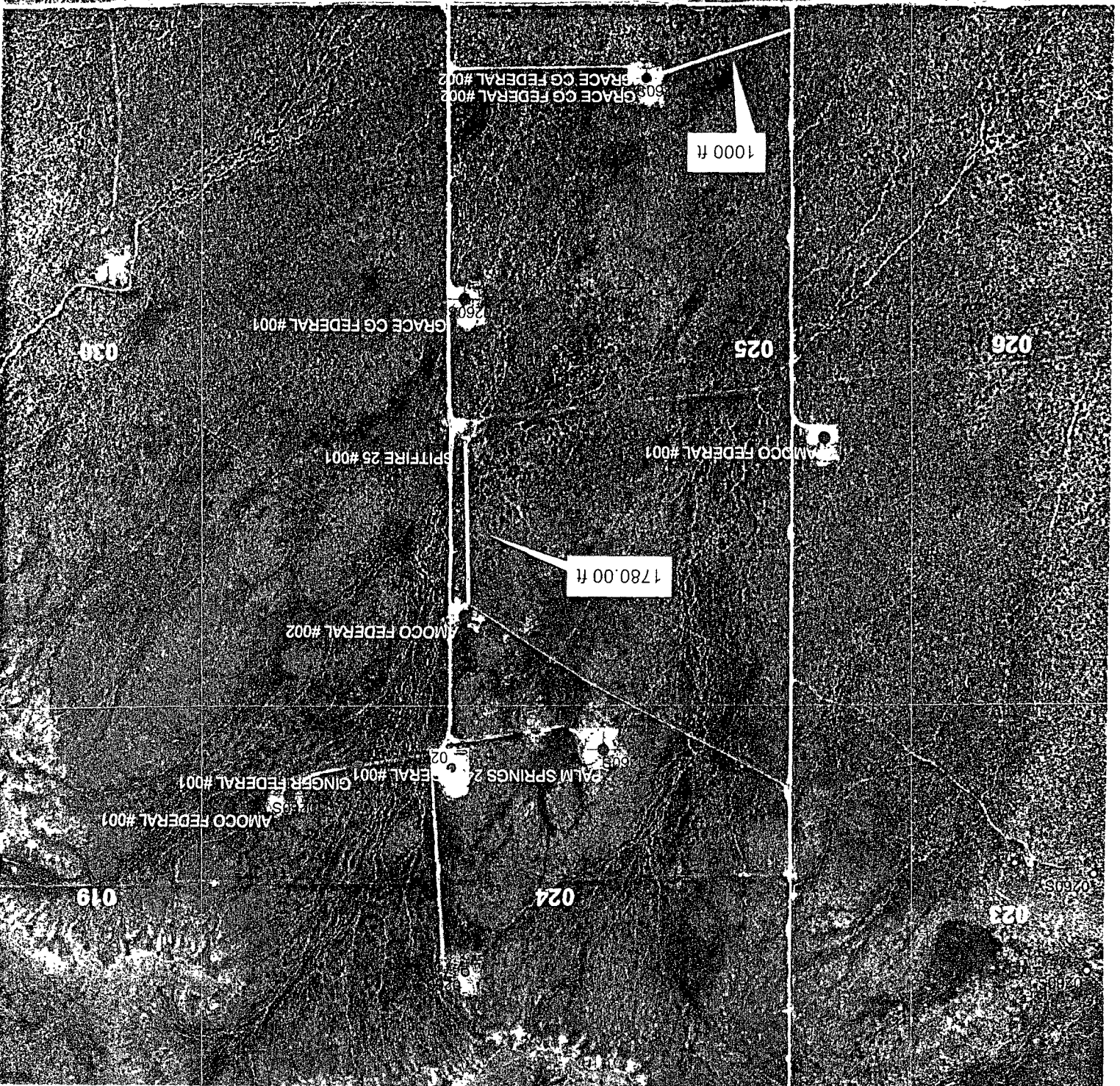
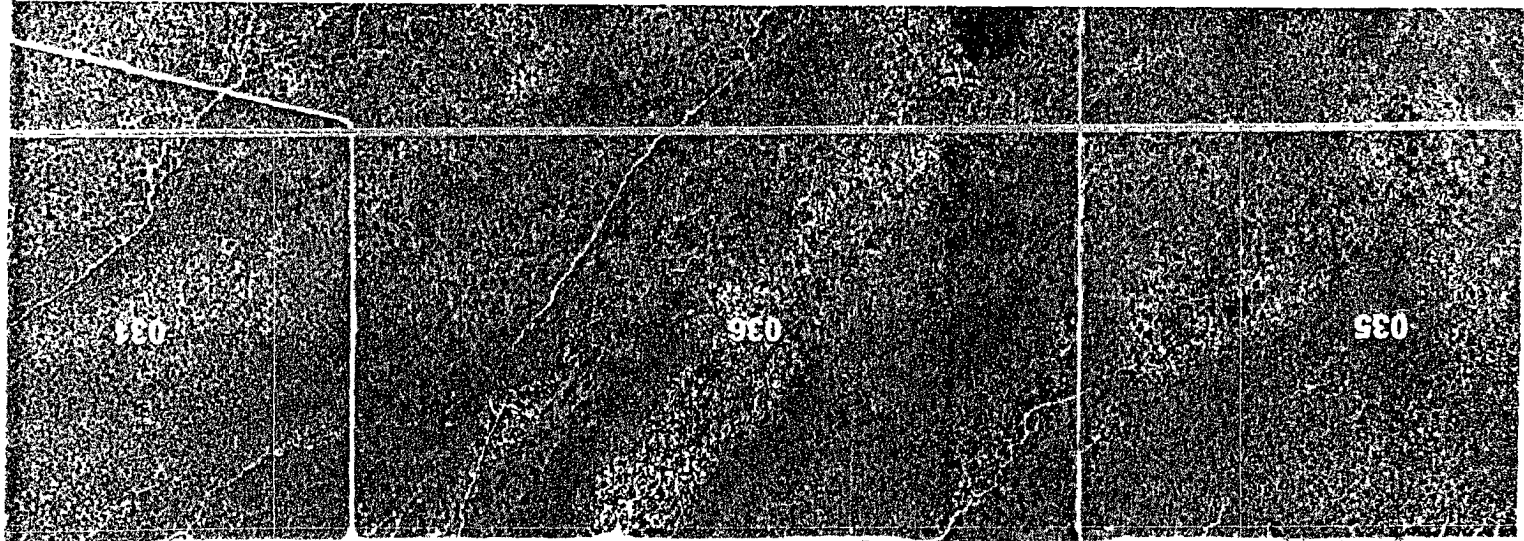
030

034

035

036

031



BLM Serial #: NM018626
Company Reference: **CRW Corporation**
Well # & Name: **Spitfire 25 No. 1**

STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS
CARLSBAD FIELD OFFICE

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

GENERAL REQUIREMENTS

A. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

B. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et. seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

C. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et. seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et. seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to

control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting there from the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar. The Holder agrees to comply with the following stipulations:

1. ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 25 feet.

☐ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

☒ Ditching will be required on both sides of the roadway as shown on the attached map or as staked in the field.

☐ Flat-blading is authorized on segment(s) delineated on the attached map.

3. DRAINAGE

Drainage control shall be ensured over the entire road through the use of borrow ditches, out-sloping, in-sloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

A. All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road slope (in %):

SPACING INTERVAL FOR TURNOUT DITCHES

Percent slope	Spacing interval
0% - 4%	400' - 150'
4% - 6%	250' - 125'
6% - 8%	200' - 100'
8% - 10%	150' - 75'

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

For this road the spacing interval for lead-off ditches shall be at

☒ 400 foot intervals.

☐ _____ foot intervals.

☐ locations staked in the field as per spacing intervals above.

☐ locations delineated on the attached map.

B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).

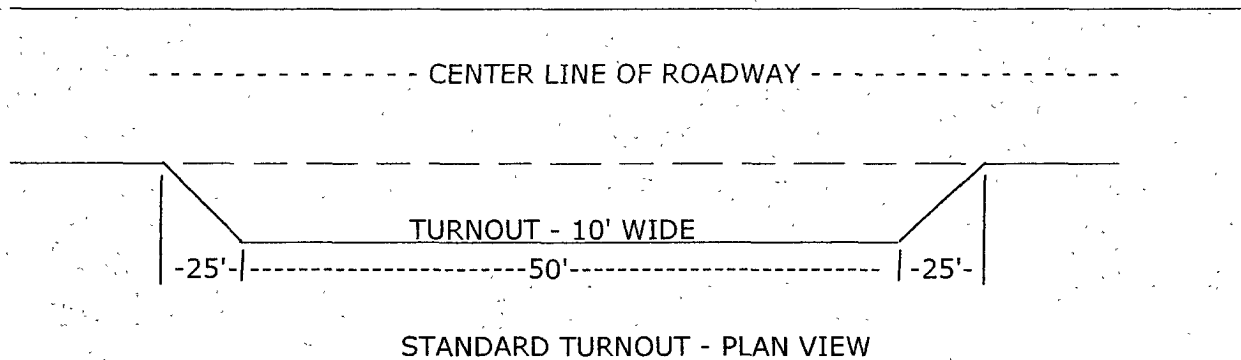
C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead-off ditch. Drainage dip location and spacing shall be determined by the formula:

$$\text{spacing interval} = \frac{400'}{\text{road slope in \%}} + 100'$$

Example: 4% slope: spacing interval = $\frac{400}{4} + 100 = 200$ feet

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:



5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

10. SPECIAL STIPULATIONS: **Total width of disturbance shall not exceed 25 Feet.**