1RP-1368

Basin Environmental Service Technologies, LLC

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Effective Solutions

PRELIMINARY SITE INVESTIGATION REPORT
and
REMEDIATION/CLOSURE PLAN

Forest Oil Corporation
Downes "D" Lease Well # 4
Lea County, New Mexico
UNIT M (SW/SW), Section 32, Township 21S, Range 37E
Latitude 32°, 25', 48.9" North, Longitude 103°, 11', 28.1" West

Prepared For:

Forest Oil Corporation
3504 NW County Road
Hobbs, New Mexico 88240-8826

Prepared By:
Basin Environmental Service Technologies, LLC

22 May 2007

Ken Dutton
Basin Environmental Service Technologies, LLC

Incident - nPAC0714534272
application - pPAC0714534363

RP# 1368

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INTRODUCTION

Basin Environmental Service Technologies, LLC (Basin), at the request of Forest Oil Corporation (Forest), visually inspected and proposed remedial activities to be conducted at the Downes "D" Lease Well # 4 crude oil release site in May 2007. The Downes "D" Lease Well # 4 is located on land owned by Mr. Patrick Simms.

This site is located in Unit M (SW¼/SW¼) Section 32, Township 21 South, Range 37 East, in Lea County, New Mexico (topographic Site Location Map is attached as Figure 1). The site latitude is 32°, 25', 48.9" North and site longitude is 103°, 11', 28.1" West. The site is characterized by an operational pump jack located in a pasture utilized for cattle grazing and numerous oil and natural gas producing facilities. The visible surface stained area included the release point covering an area approximately 150 feet long by 66 feet wide. Approximately 3 barrels of crude oil and 1 barrel of produced water were released from the Downes "D" Lease Well # 4 flow line and 0 barrels were recovered.

Mr. Gary Wink, New Mexico Oil Conservation Division (NMOCD), Hobbs, New Mexico District 1, was verbally notified of the release on 02 April 2007. A C-141 form, dated 23 April 2007 was completed by Forest and submitted to the NMOCD, Hobbs, New Mexico Office (see Appendix C, NMOCD C-141).

SUMMARY OF FIELD ACTIVITIES

In May 2007, Basin responded to a request from Forest to evaluate and propose remedial activities to be conducted at the Downes "D" Lease Well # 4 crude oil release site. After evaluating the Downes "D" Lease Well # 4 release site, Basin proposed to manually install soil borings to delineate the vertical and horizontal extent of impacted soil, which was subsequently approved by Forest, collecting soil samples at the surface and the subsurface at 1-foot intervals. The release point and visually stained area is approximately 150 feet long by 66 feet wide. Forest personnel replaced the original 2-inch poly flow line which caused the crude oil release with a 3-inch poly flow line.

On 10 May 2007 Basin manually installed eight (8) delineation soil borings collecting soil samples at the surface and the subsurface at 1-foot intervals. Eighteen (18) delineation soil samples were collected from the visually stained area. The eighteen (18) delineation soil samples collected were field screened with a Photoionization Detector (PID), (see Figure 3, Excavation Site Map - Soil Sampling Locations) and were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons – gasoline range organics/diesel range organics (TPH-GRO/DRO) and chlorides. Laboratory results of the eighteen (18) delineation soil samples indicated that constituent concentrations of BTEX were either not detected above laboratory method detection limits or below NMOCD regulatory standards (see Table 1, Soil Chemistry Results). Laboratory results of the eighteen (18) delineation

soil samples indicated that TPH-GRO/DRO concentrations were not detected above laboratory method detection limits for five (5) soil samples; were below NMOCD regulatory standards for twelve (12) soil samples and exceeded NMOCD regulatory standards for the remaining soil sample (flow path surface). Laboratory results of the eighteen (18) delineation soil samples indicated chloride concentrations were not detected above laboratory method detection limits for eight (8) soil samples; were below NMOCD guidelines for seven (7) soil samples and were slightly elevated for the three (3) remaining soil samples.

NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SOIL CLASSIFICATION

A search of the New Mexico State Engineers database revealed no records available for depth to groundwater for that section, township and range. On 23 April 2007, Forest representative, Mr. Rick Rickman, visited with Mr. Larry Johnson, NMOCD, District 1, and discussed the depth to groundwater issue and Mr. Johnson informed Mr. Rickman, the NMOCD maps indicated groundwater was greater than 200 feet for that section, township and range. There are no surface water bodies or water wells within 1000 feet of the release site. Based on this data, the site has an NMOCD Ranking Score of 0 – 9, which sets the remediation levels at:

Benzene:	10 ppm
BTEX:	50 ppm
TPH:	5000 ppm

DISTRIBUTION OF HYDROCARBONS IN THE UNSATURATED ZONE

On 10 May 2007 Basin manually installed eight (8) delineation soil borings in the visually stained area collecting soil samples at the surface and the subsurface at 1-foot intervals. The eight (8) soil borings were installed at depths ranging from the surface to approximately 2 feet below ground surface (bgs). The selected soil samples collected were field screened with a Photoionization Detector (PID) and were analyzed for BTEX, TPH-GRO/DRO and chlorides. Laboratory data sheets and chain-of-custody forms are attached (Appendix B)

The pump jack (PJ) soil boring, as depicted on the Soil Sampling Locations (Figure 3), was installed at the release point (north of pump jack) position. Soil samples at the surface and 1-foot sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were below NMOCD regulatory standards for the surface soil sample and not detected above laboratory method detection limits for the 1-foot soil sample. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface and 1-foot soil samples were below NMOCD regulatory standards at 1928 mg/kg and 442 mg/kg, respectively. Laboratory results indicated chloride concentrations for the surface and 1-foot soil

samples slightly exceeded NMOCD guidelines at 304 mg/kg and 528 mg/kg, respectively.

The flow path (FP) soil boring was installed at the flow path (north and east of pump jack) position. Soil samples at the surface and 1-foot bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were below NMOCD regulatory standards for the surface soil sample and not detected above laboratory method detection limits for the 1-foot bgs soil sample. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface soil sample exceeded NMOCD regulatory standards at 5153 mg/kg and was below NMOCD regulatory standards for the 1-foot bgs soil sample at 161 mg/kg. Laboratory results indicated chloride concentrations for the surface soil sample was below NMOCD guidelines at 112 mg/kg and the 1-foot soil bgs soil sample was not detected above laboratory method detection limits.

Soil Boring 1 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface and 1-foot bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were below NMOCD regulatory standards for the surface soil sample and not detected above laboratory method detection limits for the 1-foot bgs soil sample. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface and 1-foot bgs soil samples were below NMOCD regulatory standards at 1529 mg/kg and 58 mg/kg, respectively. Laboratory results indicated chloride concentrations for the surface soil sample was below NMOCD guidelines at 32 mg/kg and the 1-foot bgs soil sample was not detected above laboratory method detection limits.

Soil Boring 2 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface, 1-foot bgs and 2 feet bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were below NMOCD regulatory standards for the surface soil sample and not detected above laboratory method detection limits for the 1-foot bgs and 2-feet bgs soil samples. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface, 1-foot bgs and 2 feet bgs soil samples were below NMOCD regulatory standards at 4874 mg/kg, 45 mg/kg and 10 mg/kg, respectively. Laboratory results indicated chloride concentrations for the surface soil sample exceeded NMOCD guidelines at 1250 mg/kg and the 1-foot bgs and 2 feet bgs soil samples were below NMOCD guidelines at 32 mg/kg and 32 mg/kg, respectively.

Soil Boring 3 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface and 1-foot bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were not detected above laboratory method detection limits for the surface and 1-foot bgs soil samples. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface soil sample was below NMOCD regulatory standards at 23 mg/kg and not detected above laboratory detection limits for the 1-foot bgs soil

sample. Laboratory results indicated chloride concentrations for the surface and 1-foot soil samples were not detected above laboratory method detection limits.

Soil Boring 4 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface, 1-foot bgs and 2 feet bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were not detected above laboratory method detection limits for the surface, 1-foot bgs and 2 feet soil samples. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface and 1-foot bgs soil samples were below NMOCD regulatory standards at 832 mg/kg and 23 mg/kg, respectively, and not detected above laboratory detection limits for the 2 feet bgs soil sample. Laboratory results indicated chloride concentrations for the surface, 1-foot bgs and 2 feet soil samples were below NMOCD guidelines at 32 mg/kg, 16 mg/kg and 80 mg/kg, respectively.

Soil Boring 5 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface and 1-foot bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX, TPH-GRO/DRO and chloride constituent concentrations were not detected above laboratory method detection limits for the two (2) soil samples.

Soil Boring 6 was installed in the visually stained area (north and east of pump jack) position. Soil samples at the surface and 1-foot bgs sample depths were submitted for analysis. Laboratory results indicated that BTEX constituent concentrations were not detected above laboratory method detection limits for the surface and 1-foot bgs soil samples. Laboratory results indicated that TPH-GRO/DRO constituent concentrations for the surface soil sample was below NMOCD regulatory standards at 202 mg/kg and not detected above laboratory detection limits for the 1-foot bgs soil sample. Laboratory results indicated chloride concentrations for the surface and 1-foot bgs soil samples were not detected above laboratory method detection limits.

RECOMMENDATIONS FOR REMEDIATION

Based on the results of the delineation activities conducted and laboratory results, Forest proposes to excavate the pump jack, flow path and Soil Boring 2 areas to approximately 1-foot bgs. The excavated impacted soils and stockpiled soil will be transported to a NMOCD certified land farm. Once the impacted areas are excavated, confirmation soil samples will be collected and analyzed for constituent concentrations of BTEX, TPH-GRO/DRO and chlorides to ensure NMOCD remedial thresholds are met. Backfill material will be obtained from the landowner. Upon receipt of the analytical results for the confirmation soil samples and NMOCD thresholds are met, backfilling activities will be initiated. Concluding the backfilling activities, the complete area (150 feet long by 66 feet wide) will be disked and reseeded with landowner approved grass seed.

LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this Preliminary Investigation Report and Remediation/Closure Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Service Technologies, LLC, has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Service Technologies, LLC, has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Service Technologies, LLC, has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Service Technologies, LLC, also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Forest Oil Corporation. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and Forest Oil Corporation.

DISTRIBUTION

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rdrickman@forestoil.com

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New Mexico Oil Conservation Division
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Hobbs, New Mexico 88240
Larry.Johnson@state.nm.us

Copy 3: Mr. Patrick Simms

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Copy 2

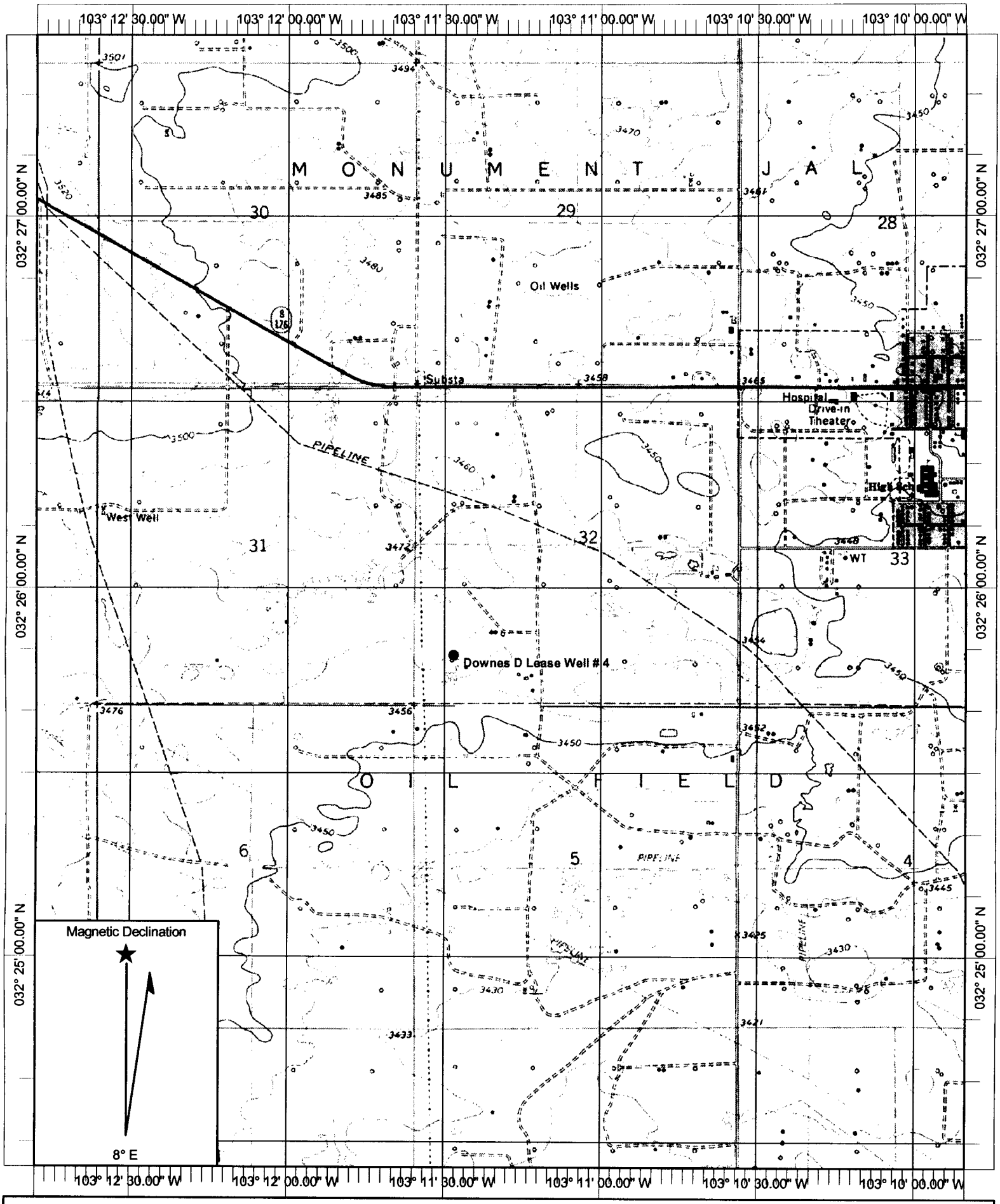
TABLE 1

SOIL CHEMISTRY RESULTS

FOREST OIL CORPORATION
DOWNES "D" LEASE WELL # 4
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DEPTH (Below Normal Surface Grade)	SAMPLE DATE	METHOD: EPA SW 846-8021B, 5030				METHOD: 8015M		TOTAL	CHLORIDES
			BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GRO	DRO	TPH	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S/P	N/A	05/10/07	<0.010	0.017	0.188	0.285	22	3460	3482	672
PJ SURFACE	N/A	05/10/07	0.028	0.124	<0.010	1.11	168	1760	1928	304
PJ 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	442	442	528
FP SURFACE	N/A	05/10/07	<0.002	0.029	0.200	0.461	103	5050	5153	112
FP 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	161	161	<16
SB-1 SURFACE	N/A	05/10/07	<0.010	0.018	0.176	0.594	49	1480	1529	32
SB-1 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	58	58	<16
SB-2 SURFACE	N/A	05/10/07	0.012	0.162	0.755	1.06	174	4700	4874	1250
SB-2 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	45	45	32
SB-2 2' BGS	2' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	10	10	32
SB-3 SURFACE	N/A	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	23	23	<16
SB-3 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	<10	<10	<16
SB-4 SURFACE	N/A	05/10/07	<0.010	<0.010	<0.010	<0.030	<10	832	832	32
SB-4 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	23	23	16
SB-4 2' BGS	2' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	<10	<10	80
SB-5 SURFACE	N/A	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	<10	<10	<16
SB-5 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.006	<10	<10	<10	<16
SB-6 SURFACE	N/A	05/10/07	<0.010	<0.010	<0.010	<0.030	<10	202	202	<16
SB-6 1' BGS	1' BGS	05/10/07	<0.002	<0.002	<0.002	<0.002	<10	<10	<10	<16
NMOCD CRITERIA			**10**	**TOTAL BTEX 50**					**5000**	

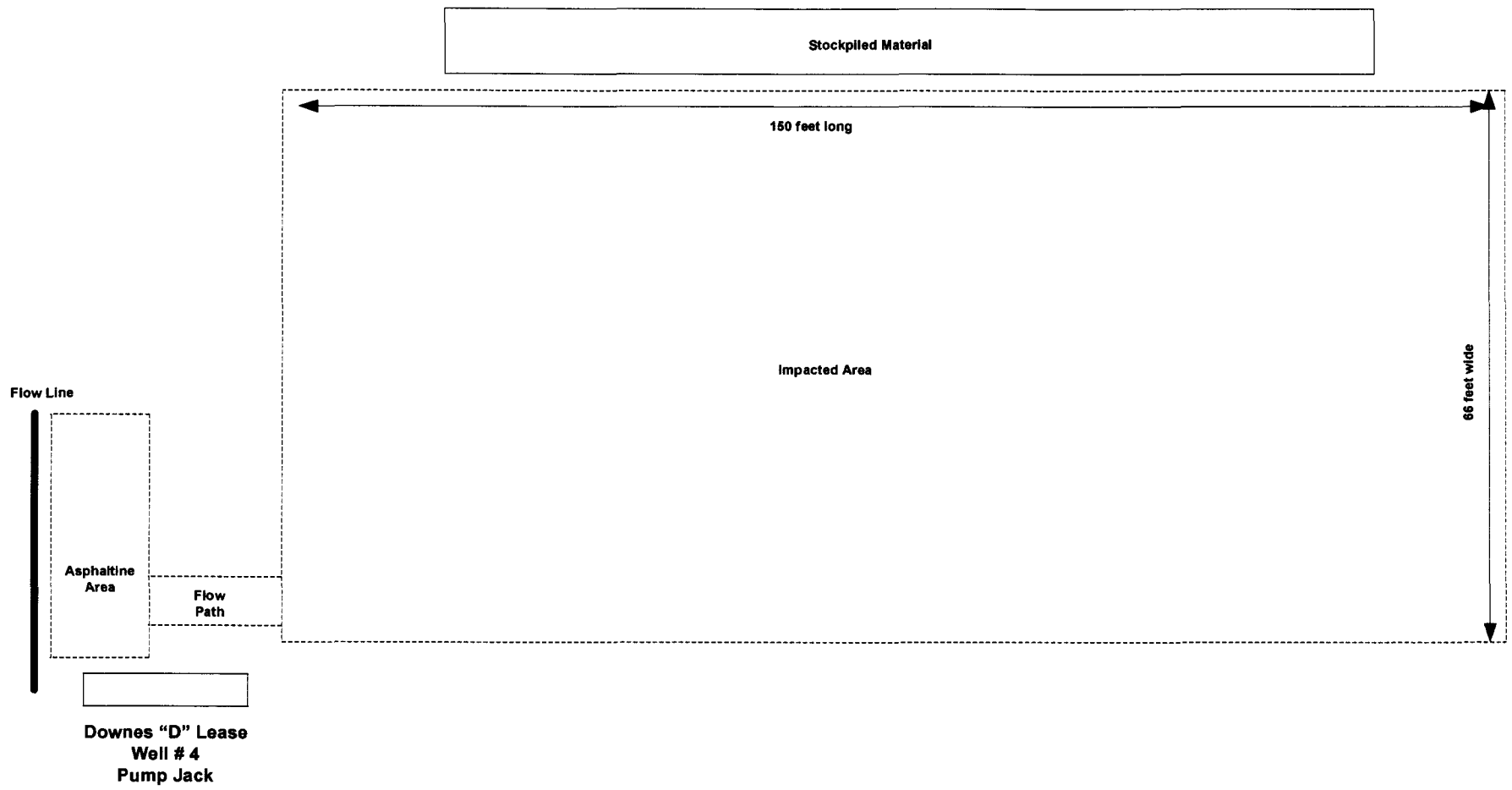
LEGEND: S/P: Stockpile PJ: Pump Jack (west) FP: Flow Path BGS: Below Ground Surface



Name: EUNICE
Date: 5/24/2007
Scale: 1 inch equals 2000 feet

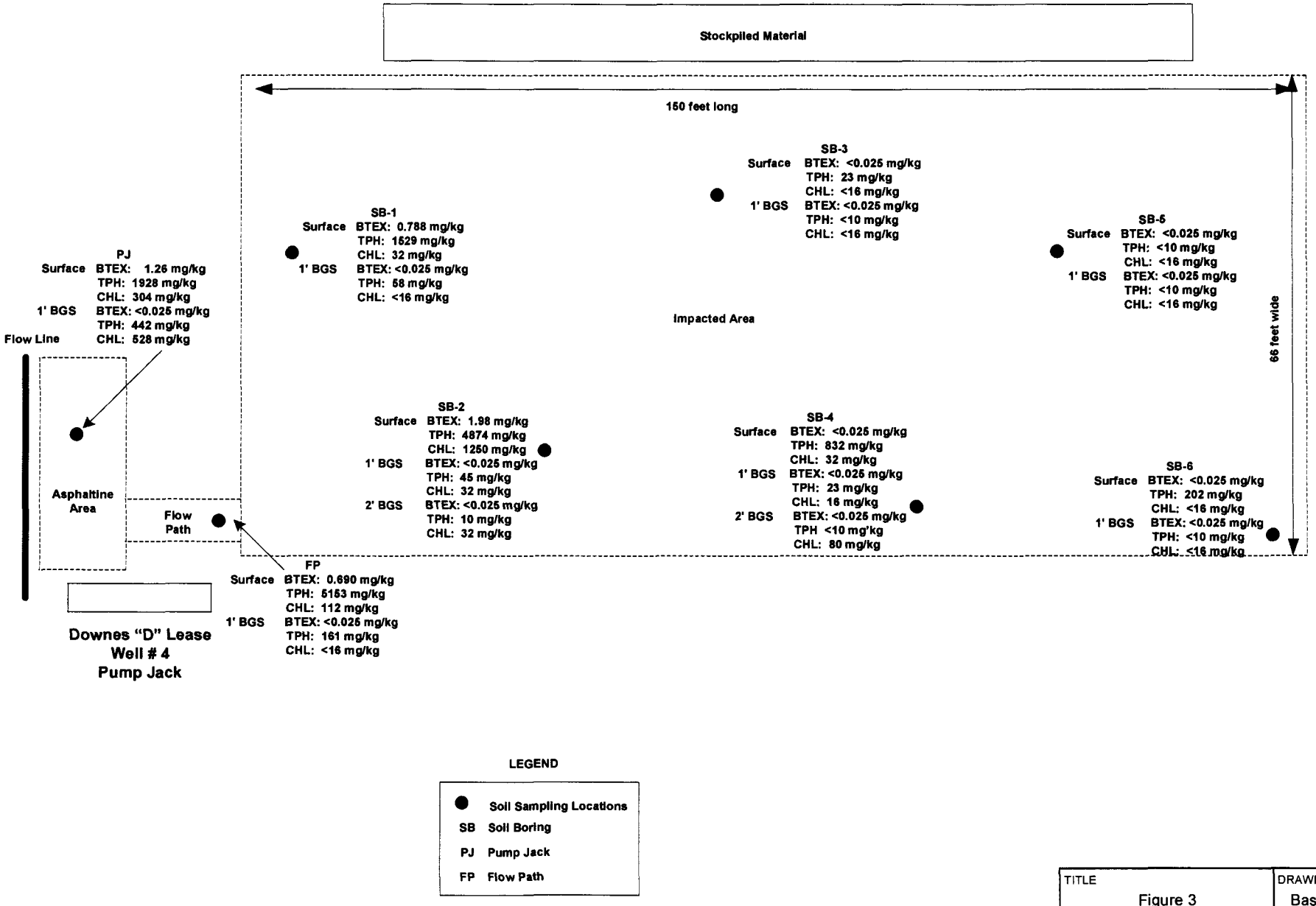
Location: 032° 25' 57.81" N 103° 11' 19.15" W NAD 27
Caption: Figure 1, Site Location Map
Forest Oil Corporation
Downes D Lease Well # 4

Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM



TITLE	DRAWN BY
Figure 2 Site Map	Basin Environmental Svc. kad

Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM

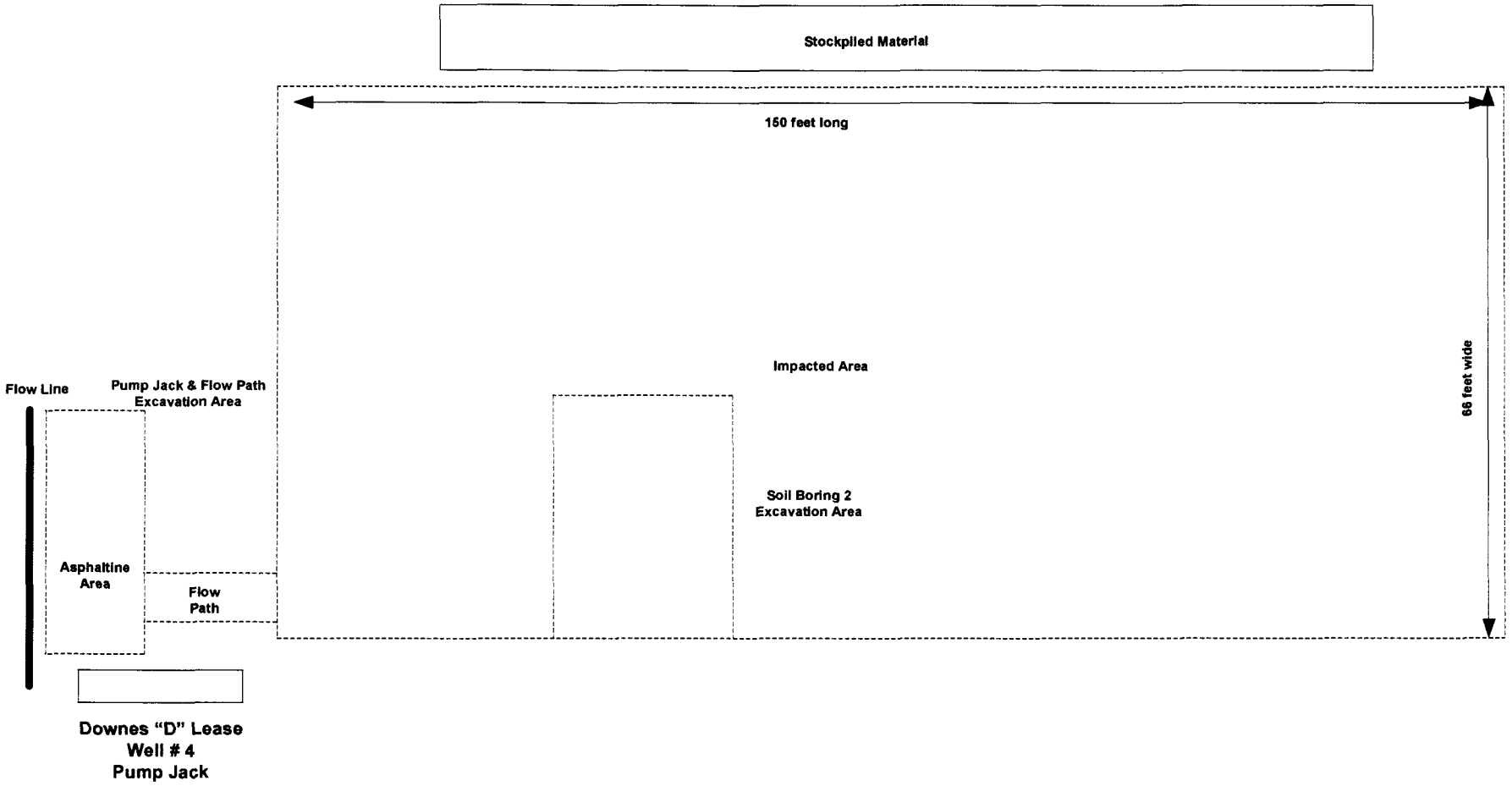


LEGEND

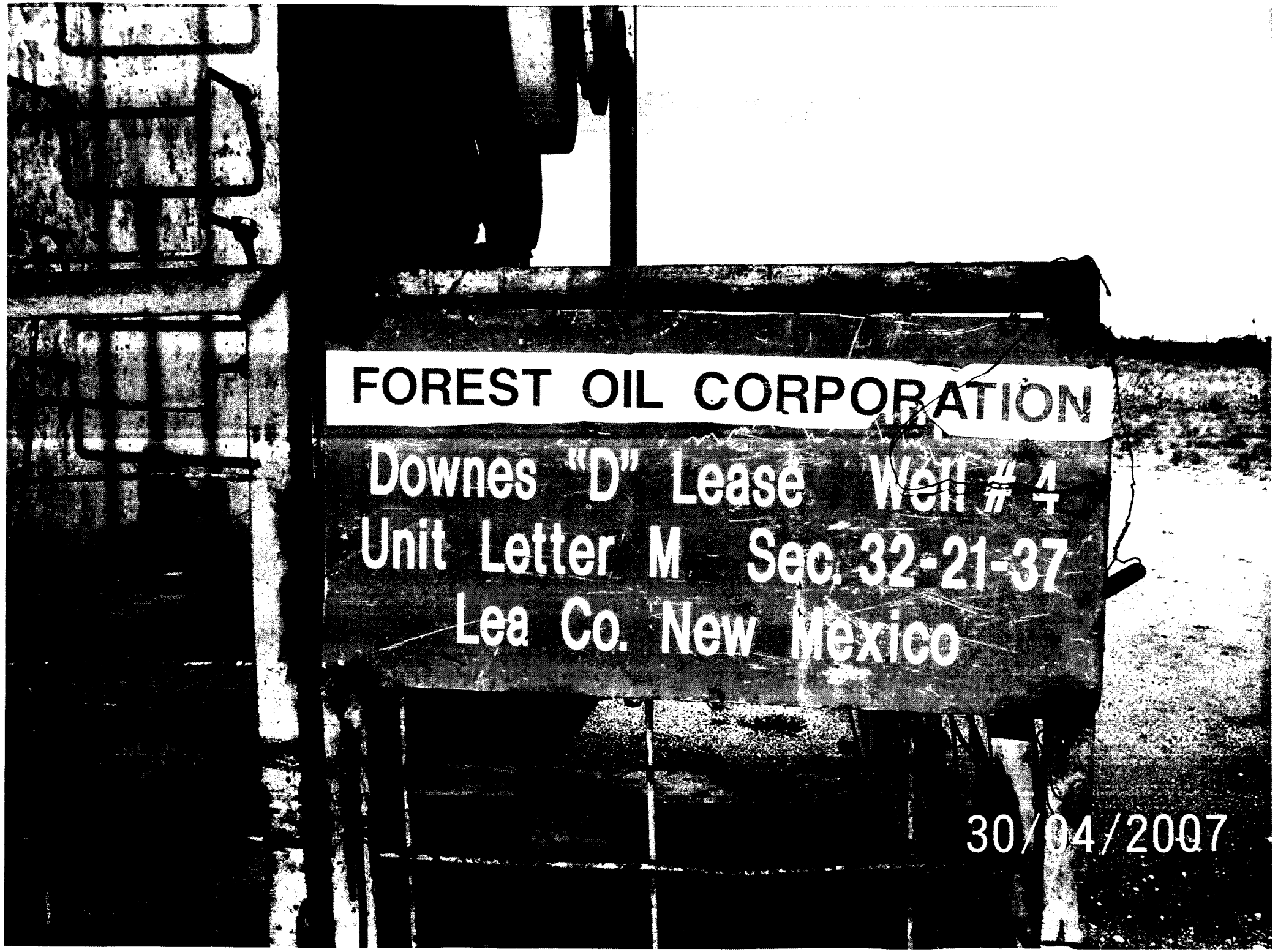
- Soil Sampling Locations
- SB Soil Boring
- PJ Pump Jack
- FP Flow Path

TITLE	DRAWN BY
Figure 3 Soil Sampling Locations	Basin Environmental Svc. kad

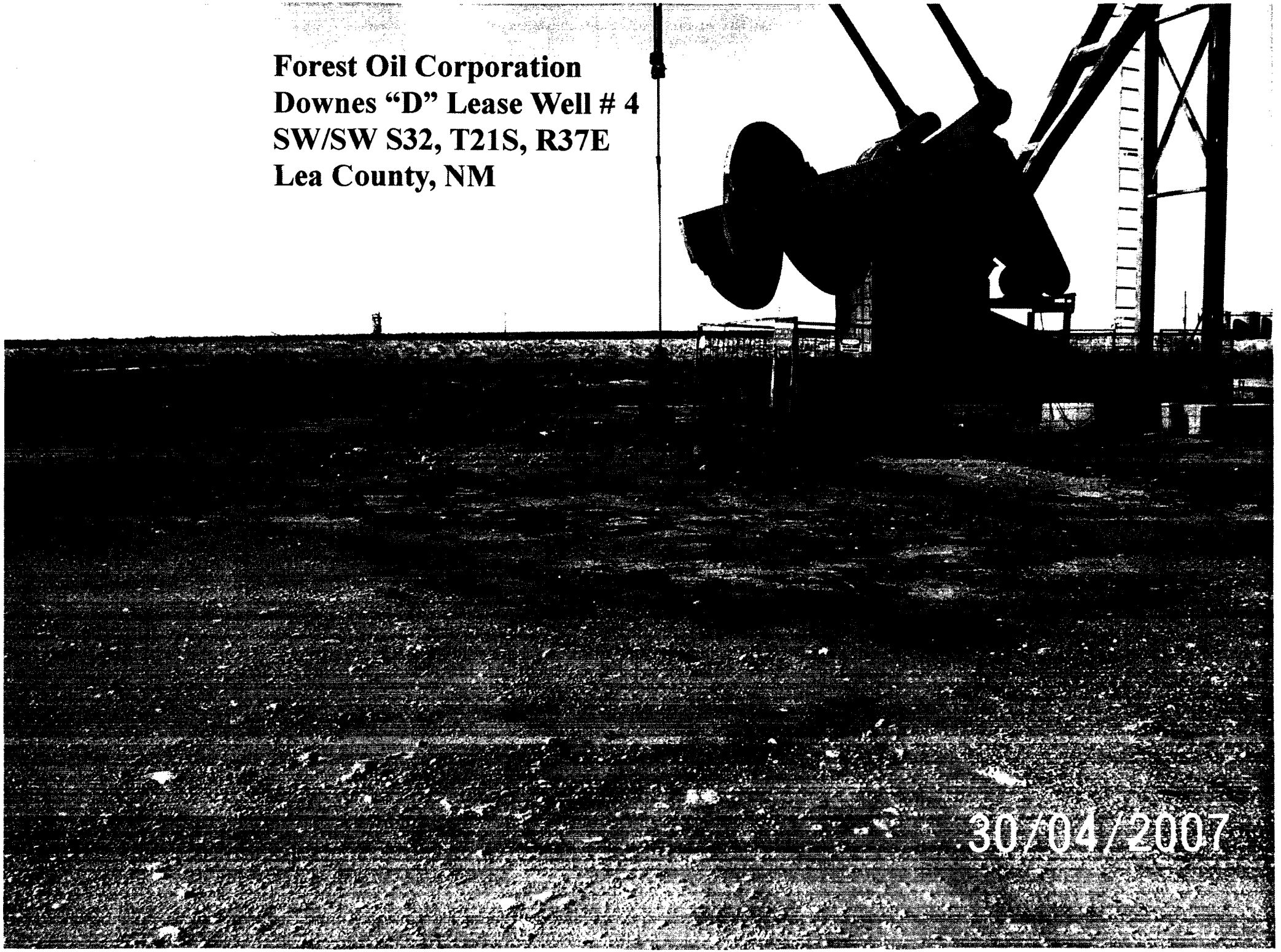
Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM



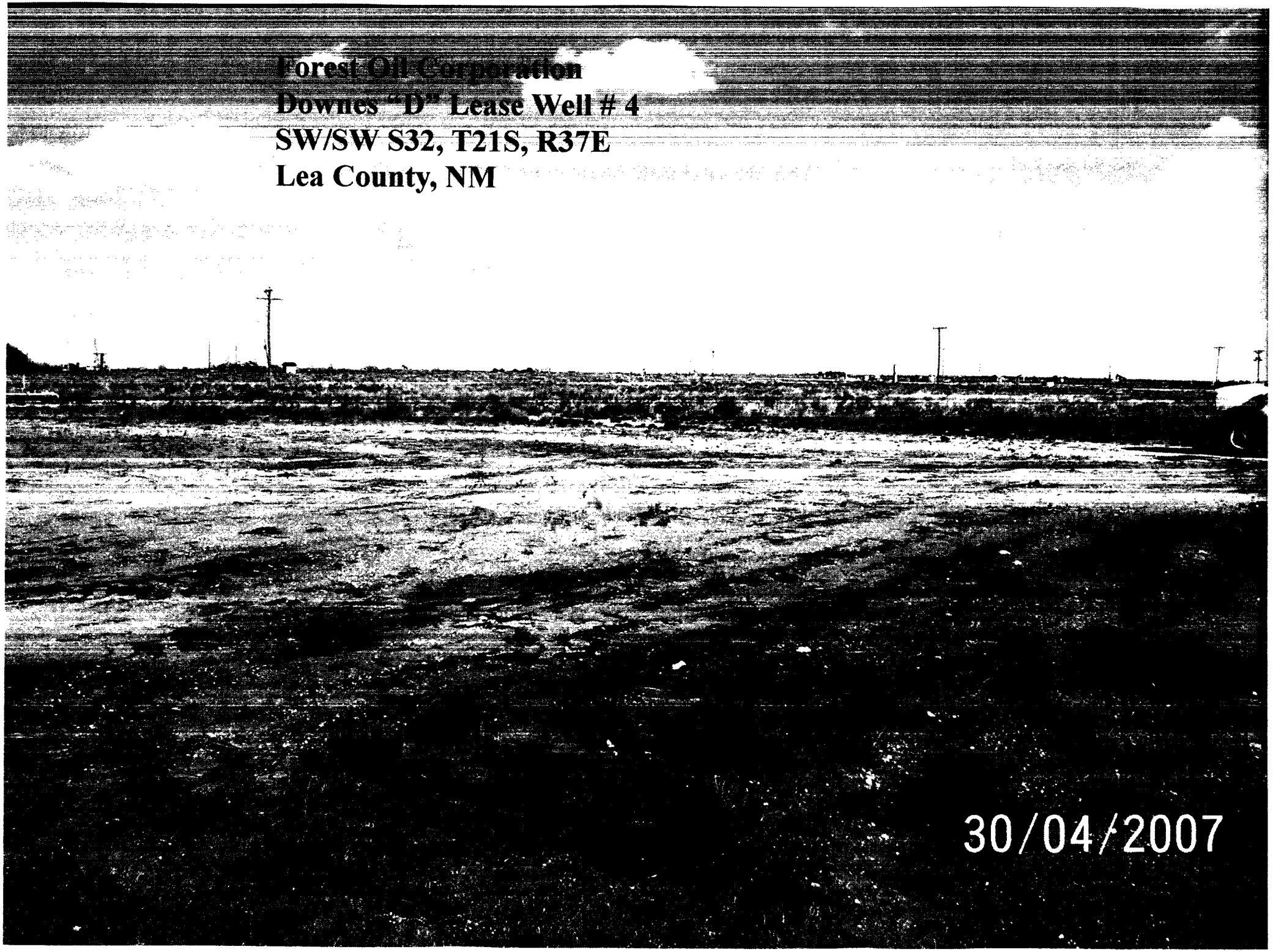
TITLE	DRAWN BY
Figure 4 Excavation Areas	Basin Environmental Svc. kad


FOREST OIL CORPORATION
Downes "D" Lease Well # 4
Unit Letter M Sec. 32-21-37
Lea Co. New Mexico
30/04/2007

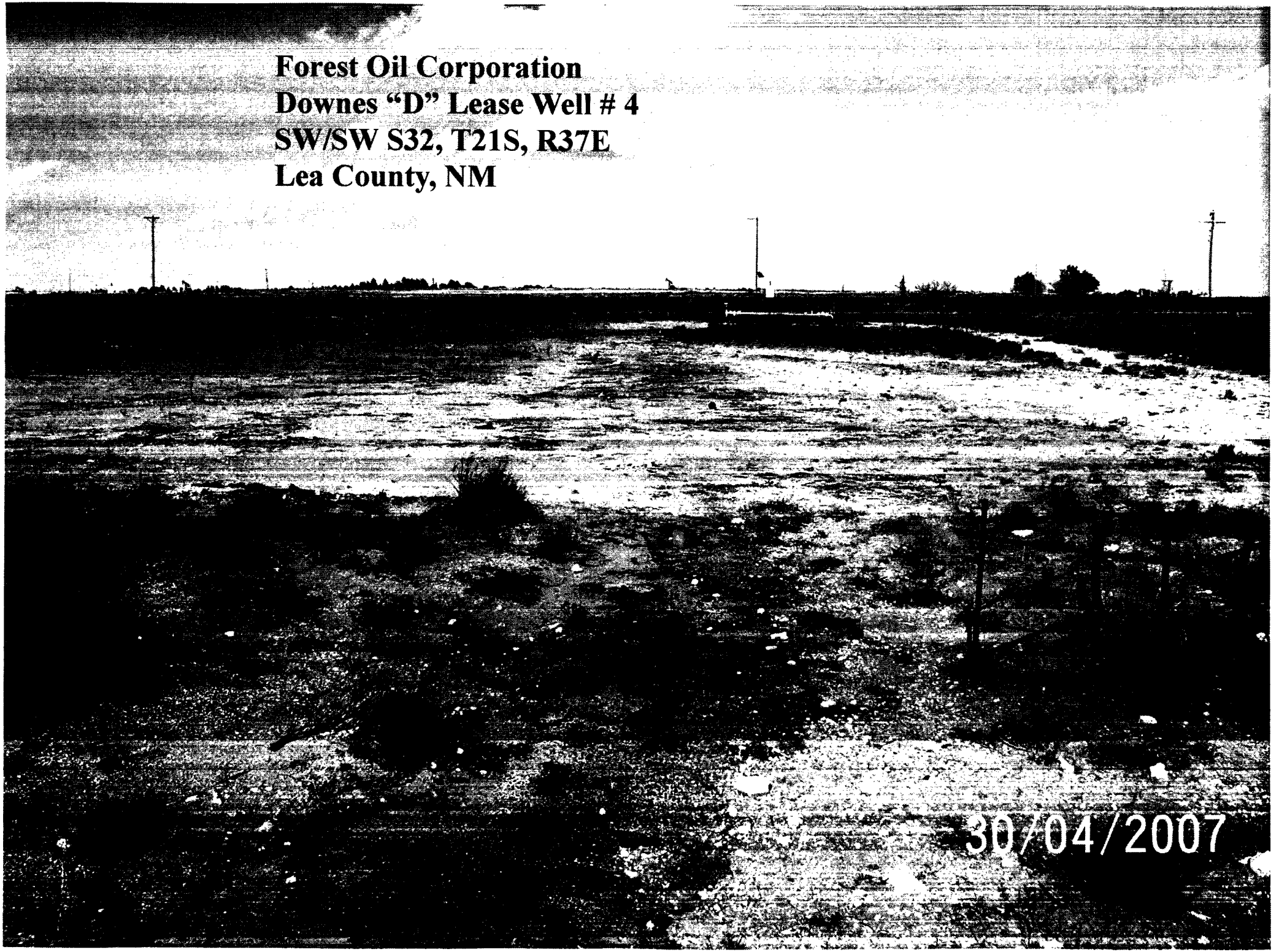
Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM

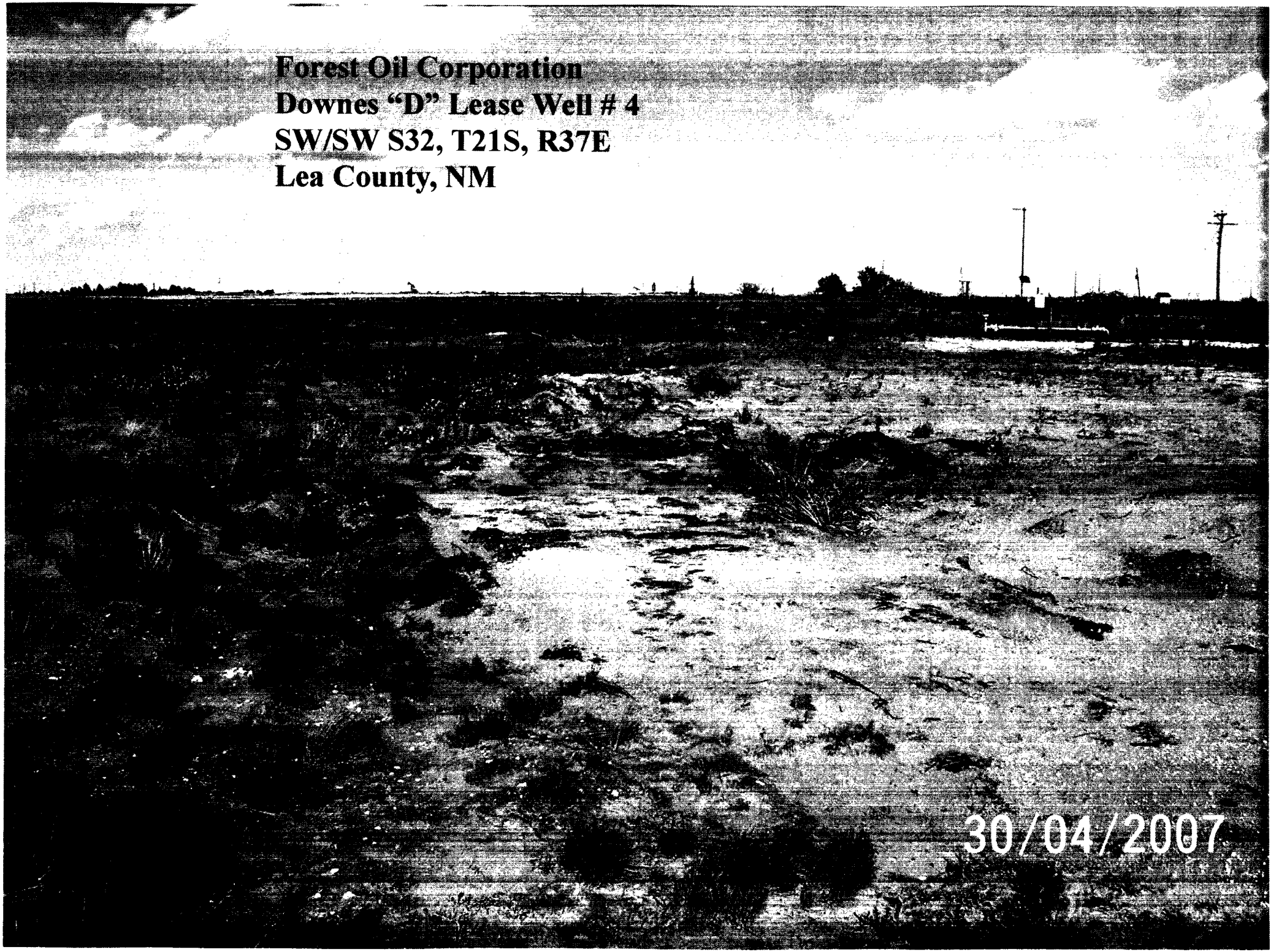



Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM
30/04/2007


Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM
30/04/2007

Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM


Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM
30/04/2007


Forest Oil Corporation
Downes "D" Lease Well # 4
SW/SW S32, T21S, R37E
Lea County, NM
30/04/2007

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 21S Range: 37E Sections: 32

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○ Non-Domestic ○ Domestic
◉ All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

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POD / SURFACE DATA REPORT 05/17/2007

DB File Nbr	Use	(acre ft per annum) Diversion	Owner	POD Number	(qua (qua

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CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES
ATTN: KEN DUTTON
P.O. BOX 301
LOVINGTON, NM 88260

Receiving Date: 05/14/07
Reporting Date: 05/16/07
Project Owner: NOT GIVEN
Project Name: FOREST OIL CORPORATION
Project Location: LEA COUNTY, NM

FAX TO: (505) 396-1429

Sampling Date: 05/10/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/15/07	05/15/07	05/15/07
H12588-1	S/P	22.0	3460	672
H12588-2	PJ SURFACE	168	1760	304
H12588-3	PJ 1' BGS	<10.0	442	528
H12588-4	FP SURFACE	103	5050	112
H12588-5	FP 1' BGS	<10.0	161	<16
H12588-6	SB-1 SURFACE	49	1480	32
H12588-7	SB-1 1' BGS	<10.0	58.1	<16
H12588-8	SB-2 SURFACE	174	4700	1250
H12588-9	SB-2 1' BGS	<10.0	44.9	32
H12588-10	SB-2 2' BGS	<10.0	10.3	32
H12588-11	SB-3 SURFACE	<10.0	23.4	<16
H12588-12	SB-3 1' BGS	<10.0	<10.0	<16
H12588-13	SB-4 SURFACE	<10.0	832	32
H12588-14	SB-4 1' BGS	<10.0	23.1	16
H12588-15	SB-4 2' BGS	<10.0	<10.0	80
H12588-16	SB-5 SURFACE	<10.0	<10.0	<16
H12588-17	SB-5 1' BGS	<10.0	<10.0	<16
H12588-18	SB-6 SURFACE	<10.0	202	<16
H12588-19	SB-6 1' BGS	<10.0	<10.0	<16
Quality Control		770	801	490
True Value QC		800	800	500
% Recovery		96.2	100	98.0
Relative Percent Difference		1.1	2.4	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B

*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/16/07
Date

H12588A BAS

CARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES
ATTN: KEN DUTTON
P.O. BOX 301
LOVINGTON, NM 88260
FAX TO: (505) 396-1429

Receiving Date: 05/14/07
Reporting Date: 05/16/07
Project Owner: NOT GIVEN
Project Name: FOREST OIL CORPORATION
Project Location: LEA COUNTY, NM

Sampling Date: 05/10/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: LB

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		05/14/07	05/14/07	05/14/07	05/14/07
H12588-1	S/P	<0.010 *	0.017	0.188	0.285
H12588-2	PJ SURFACE	0.028	0.124	<0.010 *	1.11
H12588-3	PJ 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-4	FP SURFACE	<0.002	0.029	0.200	0.461
H12588-5	FP 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-6	SB-1 SURFACE	<0.010 *	0.018	0.176	0.594
H12588-7	SB-1 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-8	SB-2 SURFACE	0.012	0.162	0.755	1.06
H12588-9	SB-2 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-10	SB-2 2' BGS	<0.002	<0.002	<0.002	<0.006
Quality Control		0.088	0.097	0.099	0.299
True Value QC		0.100	0.100	0.100	0.300
% Recovery		88.3	97.1	99	99.8
Relative Percent Difference		7.2	8.7	7.2	6.8

*Increased reporting limits due to sample dilution.

METHOD: EPA SW-846 8021B

Chemist

5/16/07
Date

H12588 BAS

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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Receiving Date: 05/14/07
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Project Owner: NOT GIVEN
Project Name: FOREST OIL CORPORATION
Project Location: LEA COUNTY, NM

Sampling Date: 05/10/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: LB

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		05/14/07	05/14/07	05/14/07	05/14/07
H12588-11	SB-3 SURFACE	<0.002	<0.002	<0.002	<0.006
H12588-12	SB-3 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-13	SB-4 SURFACE	<0.010 *	<0.010 *	<0.010 *	<0.030 *
H12588-14	SB-4 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-15	SB-4 2' BGS	<0.002	<0.002	<0.002	<0.006
H12588-16	SB-5 SURFACE	<0.002	<0.002	<0.002	<0.006
H12588-17	SB-5 1' BGS	<0.002	<0.002	<0.002	<0.006
H12588-18	SB-6 SURFACE	<0.010 *	<0.010 *	<0.010 *	<0.030 *
H12588-19	SB-6 1' BGS	<0.002	<0.002	<0.002	<0.006
Quality Control		0.088	0.097	0.099	0.299
True Value QC		0.100	0.100	0.100	0.300
% Recovery		88.3	97.1	99	99.8
Relative Percent Difference		7.2	8.7	7.2	6.8

*Increased reporting limits due to sample dilution.

METHOD: EPA SW-846 8021B

Chemist

5/16/07
Date

H12588 BAS

CARDINAL LABORATORIES

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

101 East Marland
Hobbs, New Mexico 88240
Phone: 505-393-2326
Fax: 505-393-2476

Project Manager: Ken Dutton PAGE 01 OF 02

Company Name: Basin Environmental Service Technologies, LLC

Company Address: P. O. Box 301

City/State/Zip: Lovington, NM 88260

Telephone No: (505) 441-2124 Fax No: (505) 396-1429

Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

Project Name: FOREST OIL CORPORATION

Project #: DOWNES "D" LEASE WELL # 4

Project Loc: Lea County, NM

PO #: DIRECT BILL FOREST OIL CORPORATION

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: H12586

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Screened	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW = Drinking Water SL = Sludge	GW = Groundwater S = Soil/Soil	NP = Non-Potable Specify Oth	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EPA 300.0			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
H12586-1	S/P			10-May-07	1430		1	X								SOIL			X								X			X					X
-2	PJ SURFACE			10-May-07	1440		1	X								SOIL			X								X			X					X
-3	PJ 1' BGS			10-May-07	1450		1	X								SOIL			X								X			X					X
-4	FP SURFACE			10-May-07	1500		1	X								SOIL			X								X			X					X
-5	FP 1' BGS			10-May-07	1510		1	X								SOIL			X								X			X					X
-6	SB-1 SURFACE			10-May-07	1520		1	X								SOIL			X								X			X					X
-7	SB-1 1' BGS			10-May-07	1530		1	X								SOIL			X								X			X					X
-8	SB-2 SURFACE			10-May-07	1540		1	X								SOIL			X								X			X					X
-9	SB-2 1' BGS			10-May-07	1550		1	X								SOIL			X								X			X					X
-10	SB-2 2' BGS			10-May-07	1600		1	X								SOIL			X								X			X					X

Special Instructions:
EMAIL RESULTS: kdutton@basinenv.com & rdrickman@forestoil.com

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	14 MAY 07	1630	Linda Blackwood	5/14/07	1030
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Linda Blackwood	5/14/07	1205	Received by Cardinal::	5/14/07	1205

Laboratory Comments:
Sample Containers Intact? (Y) N
VOCs Free of Headspace? Y (N/A) N
Labels on container(s) (Y) N
Custody seals on container(s) (Y) N
Custody seals on cooler(s) (Y) N
Sample Hand Delivered (Y) N
by Sampler/Client Rep. ? (Y) N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: Ice °C

CARDINAL LABORATORIES

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

101 East Marland
Hobbs, New Mexico 88240
Phone: 505-393-2326
Fax: 505-393-2476

Project Manager: Ken Dutton PAGE 02 OF 02

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Sampler Signature: Ken Dutton e-mail: kdutton@basinenv.com

Project Name: FOREST OIL CORPORATION

Project #: DOWNES "D" LEASE WELL # 4

Project Loc: Lea County, NM

PO #: DIRECT BILL FOREST OIL CORPORATION

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: H12588

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Screened	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW – Drinking Water SL – Sludge	GW – Groundwater S – Soil/Soil	NP – Non-Potable Specify Oth	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides EAP 300.0			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
-11	SB-3 SURFACE			10-May-07	1610		1	X								SOIL			X								X			X				X
-12	SB-3 1' BGS			10-May-07	1620		1	X								SOIL			X								X			X				X
-13	SB-4 SURFACE			10-May-07	1630		1	X								SOIL			X								X			X				X
-14	SB-4 1' BGS			10-May-07	1640		1	X								SOIL			X								X			X				X
-15	SB-4 2' BGS			10-May-07	1650		1	X								SOIL			X								X			X				X
-16	SB-5 SURFACE			10-May-07	1700		1	X								SOIL			X								X			X				X
-17	SB-5 1' BGS			10-May-07	1710		1	X								SOIL			X								X			X				X
-18	SB-6 SURFACE			10-May-07	1720		1	X								SOIL			X								X			X				X
-19	SB-6 1' BGS			10-May-07	1730		1	X								SOIL			X								X			X				X

Special Instructions:
EMAIL RESULTS: kdutton@basinenv.com & rdrickman@forestoil.com

Relinquished by:	Date	Time	Received by:	Date	Time
Ken Dutton	14 MAY 07	1030	Linda Blackwood	5/14/07	1030
Relinquished by:	Date	Time	Received by:	Date	Time
					1[illegible]
Relinquished by: Linda Blackwood	5/14/07	1205	Received by Cardinal::	5/14/07	1205

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt: Ice °C

1RP-1368

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company Forest Oil Co.	Contact Roy R. Munoz
Address Box 3504 Hobbs, NM. 88240	Telephone No. 505-631-5850
Facility Name Downes "D" Lease # 4	Facility Type oil & WTR. Leak

Surface Owner Patrick Simons	Mineral Owner	Lease No. 30-025-24568

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	32	21	37	660'	South	810	West	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release oil & WTR.	Volume of Release 3-oil-1-WTR Volume Recovered -0-
Source of Release oil & WTR	Date and Hour of Occurrence / Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☑ No ☐ Not Required	If YES, To Whom? Roy R. Munoz / GARY W. WINK 10:00 A.M. 4-2-07
By Whom? Wilk Deaw	Date and Hour 4-10-07 - 9:00 A.M.
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* 2" ployee Line Leak - Replace with 3" polylee line back Hoe rake Top of soil.

Describe Area Affected and Cleanup Action Taken.* 40'X 80' Area - Spray-wind blowing 20 MPH. From The West.-

* Some Previous Contamination will be remedied

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Roy R. Munoz	OIL CONSERVATION DIVISION
Printed Name: Roy R. Munoz	Approved by District Supervisor: ENVIRONMENTAL
Title: Foreman	Approval Date: 5-25-07 Expiration Date: 7-25-07
E-mail Address: rrmunoz@forestoil.com	Conditions of Approval: SUBMIT FINAL C-141 Attached ☐
Date: 4-23-07 Phone: 505-631-5850	

* Attach Additional Sheets If Necessary