

Denny E. Faust

DEPUTY OIL & GAS INSPECTOR JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
FEB 08 1999 P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

17/1/99

PIT REMEDIATION AND CLOSURE REPORT

Operator: Williams Production Company Telephone: 918-561-6250

Address: P.O. Box 3102, MS 37-4 Tulsa Ok. 74101

Facility or Well Name: JICARILLA 93 #7

Location: Unit or Qtr/Qtr Sec E Sec 32 T27N R3W County RIO ARriba

Pit Type: Separator Dehydrator Other PRODUCTION

Land Type: JICARILLA APACHE RESERVATION

Pit Location: Pit dimensions: length 16' width 16' depth 3'

(attach diagram)

Reference: wellhead other

Footage from reference:

Direction from reference: Degrees East North
of
 West South

Depth To Groundwater:

(critical distance from
downgradient to seasonal
water elevation of
groundwater)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to an Ephemeral Stream

(downgradient dry wash greater than
feet in width)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Nearest Lake, Playa, or Watering Pond

(downgradient lakes, playas and
stock or wildlife watering ponds)

Less than 100 feet (10 points)
Greater than 100 feet (0 points) 0

Wellhead Protection Area:

(less than 200 feet from a private
domestic water source, or: less than
100 feet from all other water sources)

Yes (20 points)
No (0 points) 0

Distance To Surface Water:

(distance to perennial
ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 10/9/98 Date Completed: 10/15/98

Remediation Method: Excavation X Approx. cubic yards 3262
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite JICARILLA LANDFARMS
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: HAULED HYDROCARBON IMPACTED SOIL TO JICARILLA LANDFARMS FOR DISPOSAL.

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location _____
Closure Sampling: JICARILLA 93 #7
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 30' + SIDEWALLS
Sample date 10/15/98 Sample time 1500

Sample Results

BOTT WALL

Soil: Benzene (ppm)	<u>ND/ND</u>	Water: Benzene (ppb)	_____
Total BTEX (ppm)	<u>.0049/0.0018</u>	Toluene (ppb)	_____
Field Headspace (ppm)	<u>198/24.5</u>	Ethylbenzene (ppb)	_____
TPH (ppm)	<u>26/NO</u>	Total Xylenes (ppb)	_____

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 11/5/98 PRINTED NAME ROBERT THOMPSON
SIGNATURE Robert Thompson AND TITLE PROJECT MANAGER

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Karina Callado DATE: 11/5/98

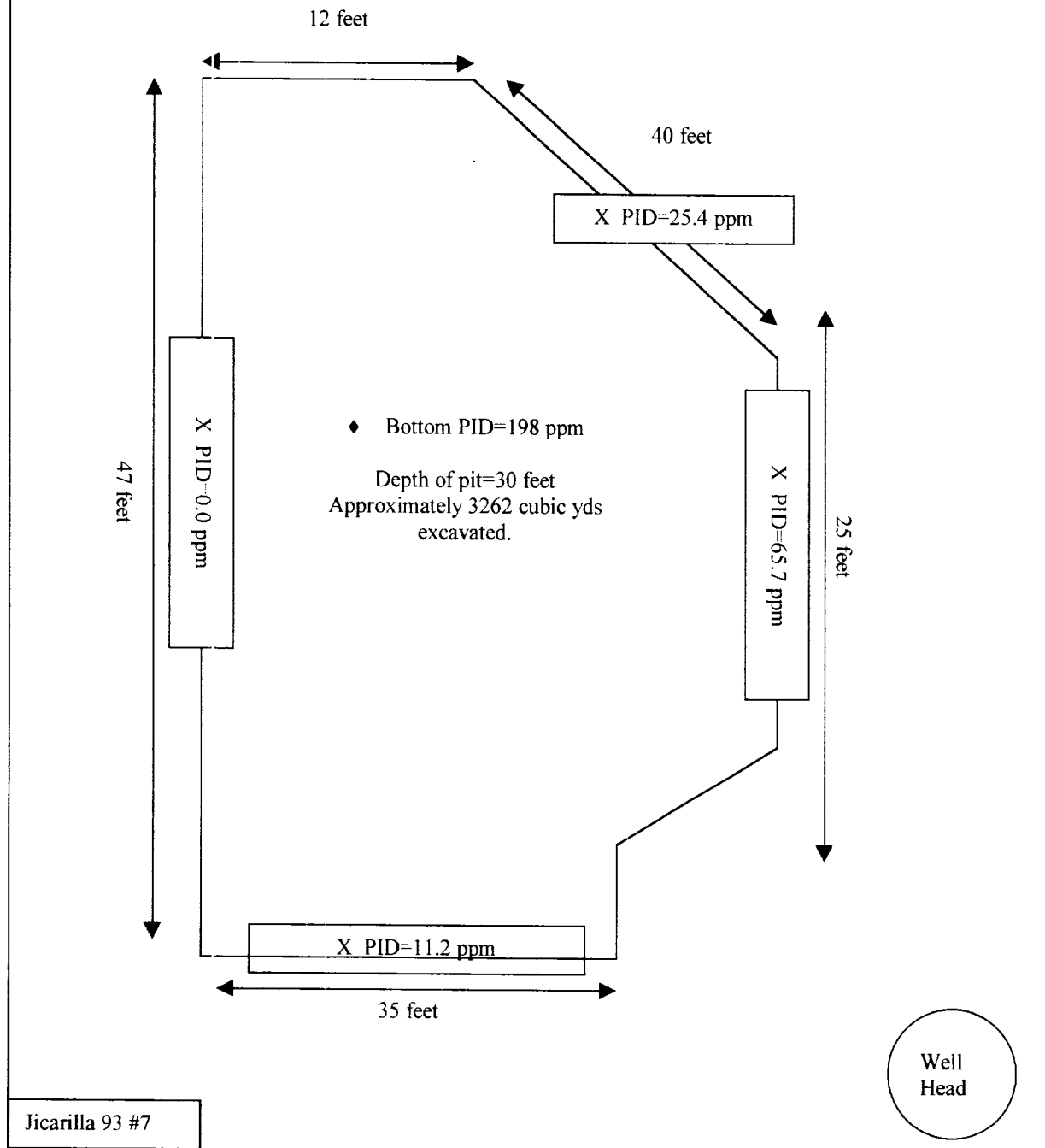
Drawing not to scale.

X=Wall Samples

◆ =Bottom Sample



- Soil Samples Collected on 10/15/98;
Bottom Sample collected at 30 feet bgs



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Oct-98

Client:	Philip Environmental	Client Sample Info:	William Production Pits
Work Order:	9810060	Client Sample ID:	Jicarilla 93 #7 Sidewalls
Lab ID:	9810060-01A	Matrix:	SOIL
Project:	18684 2500.77	Collection Date:	10/15/98 3:00:00 PM
		COC Record:	C2308

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 10/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 10/20/98
BTEX		SW8020A				
Benzene	ND	1		µg/Kg	1	Analyst: DC 10/22/98
Toluene	ND	2		µg/Kg	1	10/22/98
Ethylbenzene	1.8	1		µg/Kg	1	10/22/98
m,p-Xylene	ND	2		µg/Kg	1	10/22/98
o-Xylene	ND	1		µg/Kg	1	10/22/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 29-Oct-98

Client:	Philip Environmental	Client Sample Info:	William Production Pits
Work Order:	9810060	Client Sample ID:	Jicarilla 93 #7 Bottom
Lab ID:	9810060-02A	Matrix:	SOIL
Project:	18684 2500.77	Collection Date:	10/15/98 3:05:00 PM
		COC Record:	C2308

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	26	25		mg/Kg	1	10/27/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	10/21/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/23/98
Toluene	ND	2		µg/Kg	1	10/23/98
Ethylbenzene	2.3	1		µg/Kg	1	10/23/98
m,p-Xylene	2.6	2		µg/Kg	1	10/23/98
o-Xylene	ND	1		µg/Kg	1	10/23/98

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

Chain of Custody Record

(505) 326-2262 Phone
(505) 326-2388 FAX

Project Name Home Path 176

Project Number	Phase	Task
1213	2000	73

Phase . Task

Samplers

Laboratory

Notes

Location	Notes

Sample Number (and depth)	Date	Time	Matrix
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er (and depth)

Time

Matrix

Comments

9210660 0/12

10/10/10

Relinquished by:

Received By:

Signature

Date _____

Time

Signature

Date _____

Fi

Samples Iced: ☒ Yes ☐ No

Carrier:

Preservatives (ONLY for Water Samples)

☐ Cyanide Sodium hydroxide (NaOH)☐ Volatile Organic Analysis Hydrochloric acid (HCl)☐ Metals Nitric acid (HNO₃)

☐ TPH (418.1) Sulfuric acid (H₂SO₄)

☐ Other (Specify) _____

☐ Other (Specify) _____

Airbill No.

Shipping and Lab Notes:

we then checked the west wall
those readings were around 600 ppm
I went up to check on Spike
on the Jicarilla 92nd? He had
all the soil piled up and
was land farming the rest
He had back up on the pile to
push so dirt down and
a piece of re bar was in
the pile popped up and hit
the bottom box and bent it
I didn't get on to him too
much He was being hard enough
on his self

I took readings on the west wall
at the bottom at 1435 it was
1900 ppm

I also called Teresa with a note to
apologize about the miscommunication
she said she would meet me Monday
and see if we could get close to
the highway ~~area~~

We continued to excavate till 15:30
then we shut down Grease &
Fuel Trackloc in between loading
trucks

Spike got back here at 1620-
He fuel and Grease trucks they came to

10/12/98

JIC 93#7 18884 2500 77 ^{409m/14}

Arrived 0740 started equipment and
JUMP started London 1st TRUCK with
INLAND corp. was HERE I MAY ONLY
HAVE 10² TRUCK to announce the way it
SOUNDS

I took some Reading west wall
at 0845 they were at 1800
0 ppm at 20' 2000 ppm

Steve started his 1st BENCH at
0920 I told him not to go bench but
40-5' deep because I think we will
hit rock before it goes to deep
but we will have to wait &

See

I go talk to DON He said we
were supposed to go to a different
land farm I left location to
go find the truck Mike with
INLAND didn't answer his phone
till I had started down J-25
He said Teresa with Gene was
on her way out so I pulled over
and waited for her and the other
TRUCK this all happen around 1000
I talk to Teresa she said that
they were going to move the

Backhoe & the Blade IN and FIX
the Road

I took a measurement & a
Reading at 1120 it was 25' and
1500 ppm

I 9150 talk to Don he said
that mark Harvey gave us his
Blessing to us the Borrow pit
Right Below us and that all
we needed to do was spray the
one to RISK out and start
Backfilling them

at 1300 I went to the JIC 92#12
and check the land form it
is still hot I then went and
check the 92#15 if it is still
Hot From there I went to
the JIC 92#8 it was still
Hot From there I went to
the 92#9 it HAS ONLY went
down about 100 ppm it was over
2000 ppm where we had been
turning since we started turning
it

I talk to Mike about this
stuff and he said ^{we} would

look at it tomorrow when
he come out
we also moved the separator to
day and also the meter run & base.
we hauled a total of 520 yd
today

10/13/98

Jic 93⁴⁷ 18684 2500.77

Arrived at 0800 Dale Start BY
Excavating ON the North wall
to get CONTINUATION to start loading
OUR TRUCK For the day

I took a Reading ON this wall it was
536 PPM about mid way down
and on the Bottom it was 2999 PPM
I lead TRUCK to Land Farm they
weren't there yet I come Back
and Dale Couldn't Figure out How
to dig the pit I ask him to
TRY it ~~to~~ BY Ramping down
next to Stoves Ramp and see
How it Felt IF he didn't like
it we would do it a different
way

Mike arrived at 0945 we talk
I ask IF I had BEEN telling
Steve the WRONG way to dig He
said I Had

Dale Dig Down to 30' I took
a Reading on the Bottom it was
1762 PPM it was 1030 when I took
this Reading
took Reading on North wall about 3'
From Bottom it was 2500. PPM

on west wall it was 2100 ppm

mike & I drove to all the locations
and talk about them

we went back to Jic. 93^{#7}

I took a reading it was 1500

on the bottom there is rock on
the East side the reading ~~was~~^{were}

it was 471 ppm

I took a reading on the south
wall it was 2000 ppm

we shut down at 1415 and started

putting up fence we got back

to ~~location~~^{stop} at 1830 I finish up

Paper work at 1900

10/14/98

JIC 93^{#7} 18684 2500 R3

Arrived on site at 0800 and Bobby was
all ready there we loaded him we
then loaded ~~the~~ other BRY dump
we then loaded our trucks
we ~~got~~^{started} working on the tractor
we got Rabbit started about
0845

I took Reading on the south wall
IN the ~~area~~^{in the} middle it was 60 ppm

I then took a reading of the bottom it was
over 500 ppm this was 0910 on over
on this wall we were getting Reading
of 300 to 400 ppm on the wall I
told Dale to continue excavating
I then talk to Robert he said
to talk to Bobby and find out
if 3 hour a day was OK for Rob
& Demob on all his TRUCK He said
it would be fine when I talk to
him this was at 0930

Robert also told me the Indain[#]
was still hot it past Btex
but not TPH ~~so~~^{so} I went and
found Rabbit and took him back
to that location Robert also
said the JIC 93^{#12} Landform had past

I got Back to location at 1020
we took some more Reading on
the South East corner they we
71 ppm and on the East well
Right about the sandstone Shelf it
was 58 ppm the Rock Start at 18'
on this well and goes on down to
the Bottom of the pit at 30' on this
side I told Dale that was
good on the South well and to
move around and we would check
~~the East well on~~

Then North East side about the Rock
it was 0.0 ppm I then had
Dale Help Steve move the stockpile
of soil on the North side so he
could start moving over-burden this
was at 1045 He started excavating
over-burden at 1200 I left and went
to check land farm I returned at 1420
He said He had been excavating ~~and~~
contaminated since 1400 I took a
Reading on the Bottom it was 2300ppm
I then went to the tie 93#5 and
check that land farm it was Below
80 ppm on all sides I got Back
to Location at 1530

Date said He could still smell
it after continuous excavating till 1600
He said it wasn't as much smell I
took reading on this wall it was
70 ppm about 6" off bottom I check
it over to the West ~~side~~^{corner} it
was 55 ppm about the same depth
I said to call it a wall and
we shut down at 1615 to start
putting fence up and gathering
Bill of lading we left location at
1640

10/15/98 JIC 9347 18684 2500.77
operator & TRUCK-DRIVER arrived at
0800 Steve started loading TRUCK
Dale wait to find out what the
plan was

Rabbit & I went to Roy Trailer
to get the spray Trailer when we
got there it was empty so we had
to mix the fertilizer and water.
We arrived on location at 0915
I went over and talk to Dale
to see what was going on He said
He wasn't sure how I wanted him to
Excavate this side I told him to
Ramp IN the Road we would
Bring TRUCK across SAGE BRUSH IF
we had to He also ask about the
1" pipe and the flow line from the
well head I told him to dig then up
I talk to Ron He said that would be
FINE so we started excavating 1" line
from where separator had been to the
END OF Meter RUN we then moved
over to the flow line He dug up
about 30 to 40' of this line up and
Ron Help me to cut it off and
pull it out While we were
doing this Hertz Show up

with a cat 320 Excavator I told him he would have to wait till we finish up with this line and he could have the Kobelco he said no problem he wasn't in a hurry so we finish this up then he walk the 220 over to a truck we fuel it it had 334.36 hours when they pick it up I also let him know we had changed the oil and the oil filter and fuel filter at 207 hours after he left Tim came by and said he had talk to ~~Mark~~^{Mark} Haruck and that the Borman pit size was 200X200X6 After he left I went to the JIC 92#7, JIC 92#12, JIC 92#15, JIC 92#4, JIC 92#8 and the JIC 92#2 I sprayed all of these pit when I got back I got some reading from Dale he started out on this ~~well~~^{west} wall at 2000 ppm and as he came back it drop to 1500 ppm he was still excavating on this wall at 1430 and we took another reading it was 78 ppm we also check the side wall on the SWest wall south corner it was

0.0 ppm on the North corner
of the West wall it was 25 ppm
I told him we would call it
good

I took my sample at 1500 on
sides & Bottom

Final Reading were

N-wall 11.2 ppm

S-wall 25.4 ppm

W-wall 65.7 ppm

E-wall 0.0 ppm Deep 18' Rock Below
on this side

Composite 24.5 ppm

Bottom 198 ppm

After that I had Spike come Back
from the Land Farm to put up fence
I had Dale ~~go~~^{and} Steve fill in Ramps
I called Acne at 1430 and talked
to the secretary I told her I wouldn't
need any body at the Land Farm ~~on~~
Friday and Monday But Tuesday I would
I need someone there

total Yard Haul to Land Farm 2440 Yd
we Hauled 620 Yd to day

10/16/98

Arrived at JIC 93^{#7} at 0800 Rabbit
Loaded the water TRUCK and went to
the JIC 92^{#9} and started spraying
water OF the LAND Farm

SPILL FORD HODEN to the JIC 92^{#12}
He then got IN the PICK UP we
went to the JIC 92^{#7} and I showed
HIM what I wanted and then he went
to the JIC 92^{#15} and I showed him
what to do Here

He worked 4.5 HOURS ON the 92^{#12}
pushing up the ~~part~~ ^{part} OF the LAND Farm
and spreading the Hot SPOT out
He worked 4.5 HOURS ON the 92^{#7}

He pushed up the clean soil and
loaded the Rest OF the stock pile out
He then moved to the JIC 92^{#15} He
pushed up enough to thin the Hot
SPOTS out He work 3 Hour ON
this location

Rabbit stay ON ~~the~~ ^{the} JIC 92^{#9} the
water TRUCK Hauled 3 Loads and
Rabbit stayed there ~~the~~ turning it
IN Between Load I shot him
down when it started snowing I didn't
want him to get sick

I WALK the EXCAVATION FROM the
JIC 93#7 BACK to the JIC 92#4
TOOK FENCE DOWN and STARTED PUTTING
OVER BORDEN BACK IN EXCAVATION
I WORK ON this all day I then
WALK to the JIC 93#10 we
HAD to lay TIRIS DOWN to CROSS
the HIWAY IT TOOK 9 HOUR to do
all OF this

we then came to town I WORK ON
paper work till 1930 when I went
Home



SITE SKETCH

Serial No. SS- _____

Title _____

Project Name Willow Pond Pond

Project No. 18684

Project Manager John

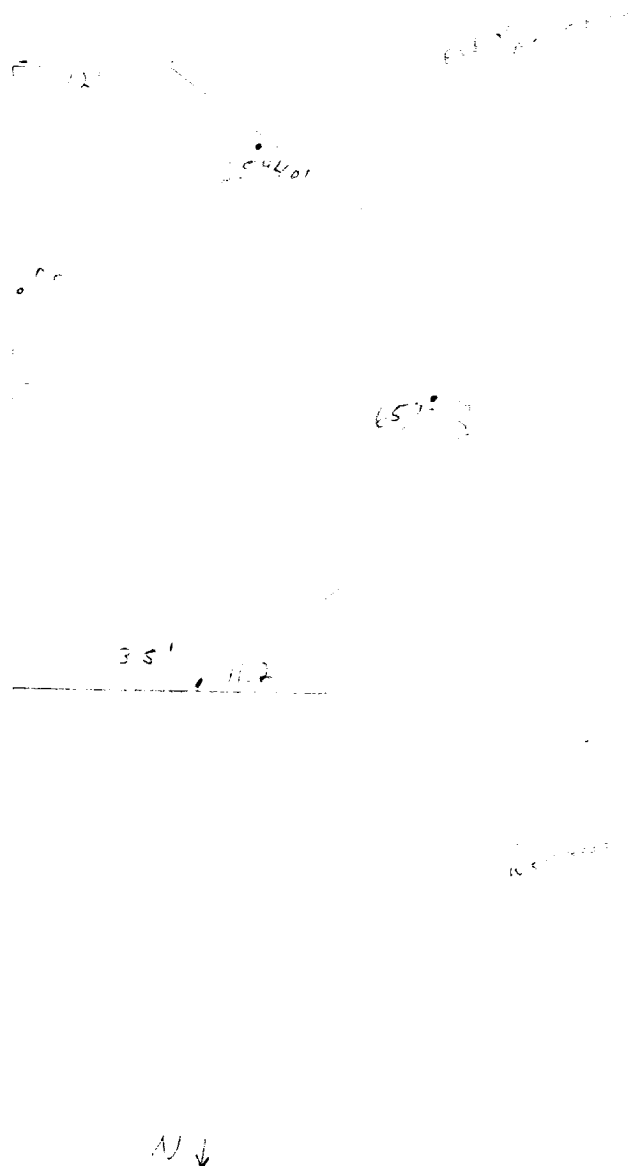
Phase/Task No. 2503

Client Company Willow Pond

Site Name J. C. Co. 23#

Site Address _____

(Include north arrow and scale or dimensions. If available, preprint CAD drawing of site on this form.)



Sketched by (signature) Moyn Killian

Date _____